LABEC CENTURY IRON ORE INC.

JOYCE LAKE DIRECT SHIPPING IRON ORE PROJECT

AIR QUALITY MODELLING (REVISION 1)

FEBRUARY 5TH, 2015

WSP

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AIR QUALITY MODELLING (REVISION 1)

Labec Century Iron Ore Inc.

Project nº: 121-18002-01
Date : February 5th, 2015

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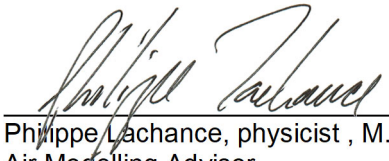

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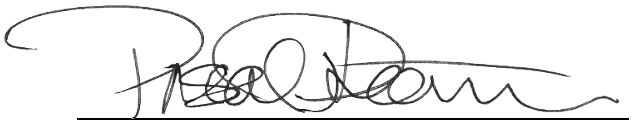

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Reference to mention:

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1 INTRODUCTION

Labec Century Iron Ore Inc. (Labec Century; the Proponent) is proposing to develop an iron mine in western Labrador, approximately 20 kilometres northeast of the Town of Schefferville, Quebec. The project is located entirely within Labrador and is planned to be operated over seven years, while the production of direct shipping ore (DSO) with high iron content will reach up to 2.5 million metric tonnes per year. The iron ore will be trucked to the existing railway owned by Tshiuetin Rail Transportation Inc. for transportation to Sept-Îles where they will be stockpiled on IOC land prior to shipping to market. The Project includes an open pit, waste rock disposal, a crushing and screening plant, an accommodation camp, access and haulage roads and a rail loop. The Project is scheduled to start construction in 2015, and operations for phase 1 are projected to be completed by 2018. Additional stockpiling of lower-grade ore for later beneficiation to bring it up to the desired commercial grade is also being considered before decommissioning and rehabilitation phases.

Air quality modelling is required in the context of the Environmental Assessment (EA) of the Project and is used to evaluate the impacts of the emissions of particulate matter (TPM, PM_{10} and $PM_{2.5}$), nitrogen dioxide (NO_2), sulphur dioxide (SO_2) and carbon monoxide (CO) resulting from the various operations planned within the mining project (blasting, hauling, handling, processing, etc.). In that context, WSP has been retained by Labec Century Iron Ore Inc. to conduct the air quality modelling to support the environmental assessment. The assessment addresses current standards as specified by the Air Pollution Control Regulations of Newfoundland and Labrador.

The modelling approach for this study is based on the methodology presented in the *Guideline for Plume Dispersion Modelling, 2nd revision* by the Department of Environment & Conservation of the Government of Newfoundland and Labrador (NL DOEC, 2012). It was briefly presented in the work plan (GENIVAR 2012), which has been reviewed and approved by a representative of the NL DOEC[1]. The study is also based on the Project Description and additional technical information provided by Labec Century Iron Ore Inc.

The following sections present the selection of the modelling scenario along with the model, and the procedure used to estimate the air concentration of particulate matter and gaseous compounds. The complete parameterization of the model is provided. The background concentrations retained are also presented along with the applicable standards. Finally, detailed results are presented and assumptions used in the modelling are discussed. Supporting maps are bundled at the end of the report along with the model inputs.

[1] Email from Mr. Barrie Lawrence on October 18th, 2012.

2 SCENARIO AND MODELLING PROCEDURE

The aim of the air dispersion modelling is to evaluate the geographic scope and magnitude of the potential air emissions by the Joyce Lake DSO Project and to verify the compliance of these potential future concentrations with the Newfoundland and Labrador regulations. To do so, the worst-case scenario is evaluated, emission rates are estimated in a conservative manner, and the scenario is modelled over a 3-year meteorological sample in the search for the worst dispersion conditions.

2.1 IDENTIFICATION OF THE EMISSION SOURCES

Various equipment and operations taking place within the Joyce Lake DSO Project may release particulate matter and gaseous compounds to the atmosphere under normal operating conditions. Based on the Project Description provided by Labec Century, the major emission sources have been identified and will now be briefly portrayed.

The operation of an open-pit mine involves several activities that may generate fugitive emissions. More specifically, drilling operations, dozing and haul truck loading and dumping operations are characterized as fugitive sources of particulate matter. Blasting operations also represents a fugitive source of particulate matter, along with combustion gases such as carbon monoxide (CO), nitrogen oxides (NO_x) and sulphur dioxide (SO_2). The hauling of ore, overburden and waste rock over unpaved roadways is also one of the largest particulate matter emission sources at mining sites, as a result of the entrainment of dust from the roadway caused by the vehicle traffic.

Once extracted, the iron ore is crushed, screened and shipped. The beneficiation plant consists of a jaw crusher, a cone crusher and coarse and fine screening equipment. These machineries are considered as fugitive sources of particulate matter.

Exhaust emissions from diverse diesel-powered equipment across the site are also considered as a source of particulate matter and combustion gases (CO, NO_x and SO_2). These equipments include numerous mobile vehicles, a power plant and locomotives.

Finally, the wind erosion on the various stockpiles is considered as a source of particulate matter.

2.2 POLLUTANTS AND AVERAGING PERIODS

In accordance with Newfoundland and Labrador guidelines (NL DOEC, 2012, Table 2.2.1), the following pollutants and averaging periods have been selected for the atmospheric dispersion modelling:

- Total particulate matter (TPM): 1-hour, 24-hour, annual
- Particulate matter less than 10 microns (PM_{10}): 1-hour, 24-hour
- Particulate matter less than 2.5 microns ($PM_{2.5}$): 1-hour, 24-hour, annual
- Nitrogen dioxide (NO_2): 1-hour, 24-hour, annual
- Sulphur dioxide (SO_2): 1-hour, 3-hour, 24-hour, annual
- Carbon monoxide (CO): 1-hour, 8-hour.

As constituents of the particulate matter, a total of nine metals are also considered, including arsenic (As), cadmium (Cd), copper (Cu), lead (Pb), nickel (Ni) and zinc (Zn), for which 24-hour period standards are defined.

2.3 SELECTION OF THE MODELLING SCENARIO

The evaluation of the impacts of the Project on the air quality is based on the extraction schedule and the infrastructure layouts provided by Labec Century. The extraction schedule is reported here in Table 1, and the main infrastructures can be located on Map 1.

It is important to note that the production is constant throughout the years so emissions related to the plant, the hauling of the products to the rail yard, and the shipping of the products should not vary. The worst-case scenario selected for the air dispersion modelling corresponds to year 1 of the operations. This selection is based on the total quantity of material extracted, which reaches a maximum of 13.8 Mt for year 1. Moreover, the operations within the pit are near the surface and pit retention effects that may reduce the emissions at larger depths will not be significant for year 1. By the end of the year, the operations within the pit reach an elevation of 486.5 m, for a depth between 3 and 44 m depending on the area.

The operations are split into four categories with various schedules in the following manner:

- Extraction and hauling of the various materials from the open pit are scheduled from March 1st to November 30th;
- The plant is scheduled to operate from April 1st to November 30th;
- Hauling of the products from the plant to the rail yard stockpiles is scheduled from April 1st to December 8th;
- Shipping of the products by train is scheduled from April 15th to December 8th.

It is important to note that, although two pads are planned for stockpiling of low-grade ore, no information about the extraction of low-grade was available at the time of the modelling. In a conservative way, since hauling over longer distances is required in order to reach the waste rock dump, the modelling scenario considers that all waste rock tonnages (which include low-grade ore) is hauled to the waste rock dump.

Table 1 Extraction schedule

Product	Estimated Production per Year (Mt)							Total
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	
Phase I Ore (DSO; 62% Fe)	2.5	2.5	2.5	2.5	2.5	2.5	2.0	17.0
Phase II Ore (55% Fe)	0	0	0	0	0	0	0	0
Waste Rock	10.8	9.7	9.5	3.6	7.0	7.0	0.0	47.6
Overburden	0.5	1.0	1.0	1.0	1.0	0.0	0.0	4.5
Total	13.8	13.2	13.0	7.1	10.5	9.5	2.0	69.1

2.4 DISPERSION MODEL DESCRIPTION

The modelling was accomplished using the CALMET diagnostic meteorological model version 6.334 (Scire et al., 2000a) and the CALPUFF dispersion modelling software (Scire et al., 2000b) version 6.42, which are approved by the NL DOEC.

CALPUFF is an advanced non-steady-state meteorological and air quality modelling system developed by the Atmospheric Studies Group at TRC Companies Inc. It consists of three main components and a set of preprocessing and postprocessing programs. The main components of the modelling system are CALMET (a diagnostic 3-dimensional meteorological model), CALPUFF (an air dispersion model), and CALPOST (a postprocessing package). In addition to these components, the CALPUFF modelling system includes a series of preprocessing programs designed to interface the model with routinely-available meteorological and geophysical datasets.

CALMET is a meteorological model that includes a diagnostic wind field generator containing objective analysis and parameterized treatments of slope flows, kinematic terrain effects, terrain blocking effects, and a divergence minimization procedure, and a micro-meteorological model for overland and overwater boundary layers. It develops hourly wind and temperature fields on a three-dimensional gridded modelling domain and associated two-dimensional fields such as mixing heights, surface characteristics and dispersion properties. The CALMET diagnostic wind field module uses a two-step approach for the computation of the wind fields. In the first step, an initial-guess wind field is adjusted for kinematic effects of terrain, slope flows, and terrain blocking effects to produce a Step 1 wind field. The second step consists of an objective analysis procedure to introduce observational data into the Step 1 wind field to produce a final wind field.

CALPUFF is a non-steady-state Lagrangian Gaussian puff model taking into account complex terrain effects, overwater transport, coastal interaction effects, building downwash, wet and dry removal, and chemical transformations. It typically uses the fields generated by CALMET and model transport and dispersion of puffs of material emitted from various types of sources. The primary output files from CALPUFF contain either hourly concentrations or hourly deposition fluxes evaluated at selected receptor locations.

More specifically, CALPUFF presents the following features:

- considers variable punctual, area, linear and volume sources;
- estimates air dispersion of pollutants over distances from 10 m, and up to 200 km;
- computes air dispersion of pollutants featuring peculiar displacement path (particulate matter);
- takes into account chemical transformation of chemical compounds, and
- considers local topography features in the dispersion modelling.

Unlike simpler models which consider linear plume dispersion and treat meteorological conditions from one hour to the other independently, CALPUFF follows the trajectory of air parcels (“puffs”) according to a dynamical wind flow. The resulting concentrations calculated at a specific time and location are consequently, closer to the reality and lead to a better representativeness of the modelling.

Finally, the CALPOST module is used to recover CALPUFF calculation results and compute air concentration of the selected pollutants and appropriate averaging periods (e.g. 1-hour, 24-hour, annual) at each receptor.

2.5 MODELLING DOMAIN

The modelling domain defines the geographical limits for the modelling. For the current study, two domains are used. The first one covers the mine and plant area while the second covers the rail yard area (see Maps 2 and 3 respectively). The two domains are 14.3 km apart and are both located within the Project Study Area.

A modelling domain of 14 km by 14 km has been selected for the mine and plant area. The south-west corner is located in the northern hemisphere, at X = 650.3 km; Y = 6077.8 km in the zone 19U of the Universal Transverse Mercator projection (UTM), North American Datum 83 (NAD83).

A modelling domain of 8 km by 9 km has been selected for the rail yard area. The south-west corner is located in the northern hemisphere, at X = 647.7 km; Y = 6054.5 km in the same projection as the mine and plant area.

Both domains include 10 vertical layers centered at 20, 40, 80, 160, 300, 600, 1000, 1500, 2000 and 2500 m. This vertical structure gives a good resolution in the lower layers and consent that emissions that reach altitudes above 2500 m will have no effects at ground level within the modelling domain. These horizontal and vertical structures have also been selected by taking into account the topography of the area.

3 METEOROLOGICAL MODEL

The meteorological and geophysical data, the different data treatments that have been done, and the CALMET parameterization are described in the following sections.

3.1 SURFACE AND CLOUD COVER DATA

The surface and cloud cover meteorological data used in this study come from Environment Canada's Schefferville airport station, located about 20 km away from the center of both modelling domains. Station coordinates and elevation are given in Table 2.

More specifically, the meteorological variables used from Schefferville's station are the wind speed, wind direction, air temperature, relative humidity, atmospheric pressure, opaque cloud cover and ceiling height. For this specific study, the 3-year meteorological sample considered corresponds to years 2007, 2008 and 2011. In order to minimize missing data, an evaluation of the meteorological data available from 2002 to 2012 was conducted and led to this selection. Each of the three selected years is complete to more than 99.8% and the missing data have been interpolated to produce a complete dataset. In fact, since CALMET requires a complete meteorological dataset, it has been judged that the interpolation would give more accurate values for the few non-consecutive missing hours than incorporating a second surface station, in this case, the Wabush station, located 200 km away from the modelling domains. The details of the missing values are given in Table 3 while the wind roses are presented in Figure 1.

Table 2 Surface Meteorological Station Details

Identification	Type	TC ID	WMO ID	Elevation (m)	UTM Coordinates		
					Zone	X (km)	Y (km)
Schefferville A	Surface	YKL	71828	521	19U	641.122	6075.043

Table 3 Surface Meteorological Station Missing Data

	Parameters	2007	2008	2011
Number of missing values	Wind Direction	19	18	7
	Wind Speed	19	18	7
	Pressure	16	5	1
	Dry Temperature	16	7	5
	Total Cloud Opacity	17	8	1
	Ceiling Height	17	8	1
Total number of missing values	***Surface***	**70**	**48**	**20**
	Cloud Cover	**34**	**16**	**2**
Missing Data percentages (%)	***Surface***	**0.200**	**0.137**	**0.057**
	Cloud Cover	**0.194**	**0.091**	**0.011**
	Total	**0.198**	**0.121**	**0.042**

3.2 UPPER AIR DATA

Considering that the closest upper station is located more than 300 km away from the project site, the National Centers for Environmental Prediction (NCEP) North American Regional Reanalysis data set (NARR)[2] has been used to provide upper air data to the model. The NARR data set offers tridimensional gridded meteorological data fields, which are produced using a sophisticated mathematical algorithm to combine land and upper weather observations along with satellite observations. NARR, which are widely used in air quality and wind energy assessments, features a 32 km resolution and covers the whole North American continent.

Data were downloaded from the National Oceanic and Atmospheric Administration (NOAA) National Operational Model Archive & Distribution System (NOMADS) website for 2007, 2008 and 2011. The extraction finally provides 17 levels, which extend up to the 500-millibar level and include pressure, elevation, temperature, wind direction and wind speed data every three hours.

3.3 LAND USE

For major industrial locations in the Province of Newfoundland and Labrador, the DOEC has derived land use datasets from the Earth Observation for Sustainable Development of Forests (EOSD) to be compatible with the US Geological Survey Land Use and Land Cover Classification System. The datasets, with an approximate 25 m resolution and containing up to 18 land use classifications, are input ready into the CTGPROC land use data processor of the CALPUFF modelling system and are to be used for compliance modelling. The appropriate dataset has been obtained from the DOEC and is illustrated on Maps 4 and 5 for the two modelling domains.

Based on the DOEC Guidelines document, three seasons are defined: non-winter, winter without snow cover and winter with snow cover. The different seasonal land use timeframes are reported here for the Western and Central Labrador area in Table 4. Based on tables 3.1.1 to 3.1.4 of the Guidelines document, the surface roughness, albedo, Bowen ratio, soil heat flux, anthropogenic heat flux and leaf area index parameters are specified for each node of the meteorological grid, for each season. For completeness, these parameters are also given in Tables 5, 6 and 7 of the present report, along with the land use classifications in Table 8.

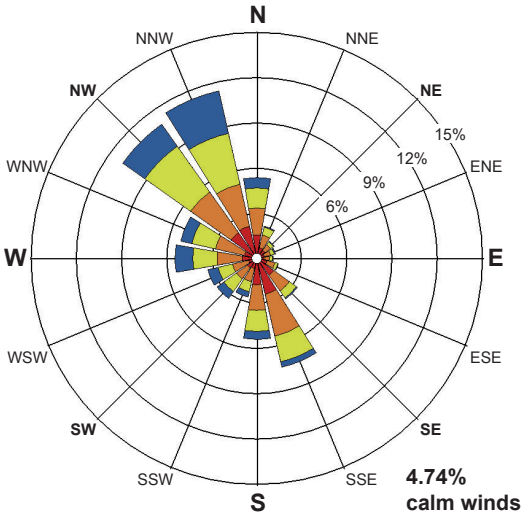
Table 4 Seasonal Land Use Timeframes

Geographic Area	Non-winter	Winter – without snow cover	Winter – with snow cover
Western and Central Labrador	June 1 to September 30	May 1 to May 31 & October 1 to October 31	November 1 to April 30

* NL DOEC, 2012 Table 3.1.5

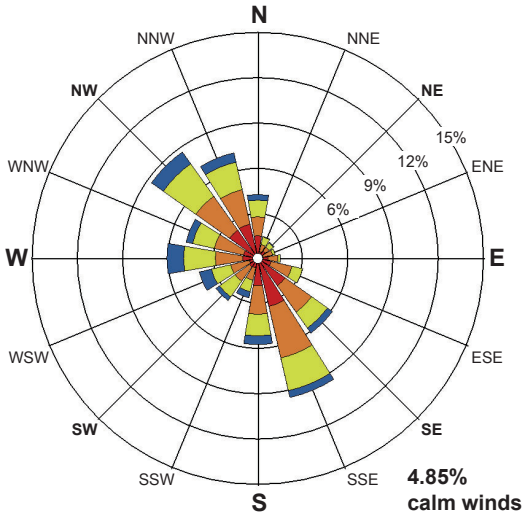
[2] North American Regional Reanalysis (NARR). *Mesinger, Fedor at al.; Dimego, Geoff; Kalnay, Eugenia; Mitchell, Kenneth; Shafran, Perry C.; Ebisuzaki, Wesley; Jovi, DušAn; Woollen, Jack; Rogers, Eric; Berbery, Ernesto H.; Ek, Michael B.; Fan, Yun; Grumbine, Robert; Higgins, Wayne; Li, Hong; Lin, Ying; Manikin, Geoff; Parrish, David; Shi, Wei*. Bulletin of the American Meteorological Society, vol. 87, Issue 3, pp.343-360, http://dx.doi.org/10.1175/BAMS-87-3-343

2007



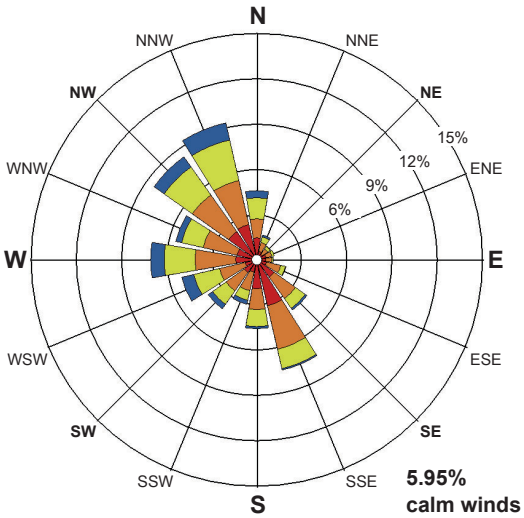
4.74%
calm winds

2008



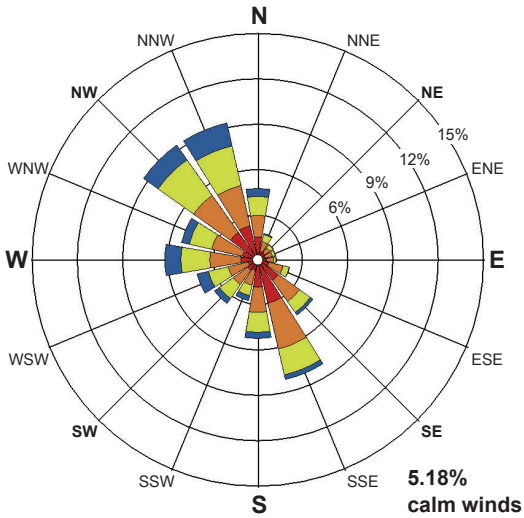
4.85%
calm winds

2011



5.95%
calm winds

2007-2008-2011



5.18%
calm winds

Wind speed

- > 7.9 m/s
- 5.4 to 7.9 m/s
- 3.1 to 5.4 m/s
- 0.5 to 3.1 m/s

Note:
Wind rose shows the frequency of winds blowing from.

Joyce Lake DSO Project
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Wind Roses - Schefferville Station

Source:
Environment Canada, station 71828, Schefferville A (YKL)

Figure 1

February 2015

121-18002-00_f1_wspT043_Windroses_150210.ai

3.4 TOPOGRAPHY

Ground elevations for each computational node of the CALMET domains are determined from the 1:50,000 Canadian Digital Elevation Data (CDED), offering latitude and longitude resolutions of 0.75 decimal seconds. The area features a mountainous terrain, dotted with lakes. The topography peaks above 600 m within the mine domain while operations are planned on elevations ranging from 470 to 580 m. The topography of both CALMET domains is presented on Maps 6 and 7.

Table 5 Land Use Parameterization – non-winter

Input Category ID	z0 (m)	Albedo (0 to 1)	Bowen Ratio	Soil Heat Flux Parameter	Anthropogenic Heat Flux (W/m^2)	Leaf Area Index	Output Category ID
11	0.5	0.18	1	0.2	0	1	10
12	1	0.18	1.5	0.25	0	0.2	10
21	0.25	0.15	1	0.15	0	3	20
31	0.05	0.25	1	0.15	0	0.5	30
32	0.05	0.25	1	0.15	0	0.5	30
33	0.05	0.25	1	0.15	0	0.5	30
41	1	0.1	1	0.15	0	7	40
42	1	0.1	1	0.15	0	7	40
43	1	0.1	1	0.15	0	7	40
51	0.001	0.1	0	1	0	0	51
55	0.001	0.1	0	1	0	0	55
61	1	0.1	0.5	0.25	0	2	61
62	0.2	0.1	0.1	0.25	0	1	62
74	0.05	0.3	1	0.15	0	0.05	70
77	0.05	0.3	1	0.15	0	0.05	70
81	0.2	0.3	0.5	0.15	0	0	80
82	0.2	0.3	0.5	0.15	0	0	80
91	0.05	0.7	0.5	0.15	0	0	90

* NL DOEC, 2012 Table 3.1.2

Table 6 Land Use Parameterization – winter without snow cover

Input Category ID	z0 (m)	Albedo (0 to 1)	Bowen Ratio	Soil Heat Flux Parameter	Anthropogenic Heat Flux (W/m^2)	Leaf Area Index	Output Category ID
11	0.5	0.18	1	0.2	0	1	10
12	1	0.18	1.5	0.25	0	0.2	10
21	0.02	0.18	0.7	0.15	0	3	20
31	0.01	0.2	1	0.15	0	0.5	30
32	0.01	0.2	1	0.15	0	0.5	30
33	0.01	0.2	1	0.15	0	0.5	30
41	0.6	0.17	1	0.15	0	7	40
42	1.3	0.12	0.8	0.15	0	7	40
43	0.95	0.14	0.9	0.15	0	7	40
51	0.001	0.1	0	1	0	0	51
55	0.001	0.1	0	1	0	0	55
61	0.6	0.14	0.3	0.25	0	2	61
62	0.2	0.14	0.1	0.25	0	1	62
74	0.05	0.2	1.5	0.15	0	0.05	70
77	0.05	0.2	1.5	0.15	0	0.05	70
81	0.1	0.2	1	0.15	0	0	80
82	0.1	0.2	1	0.15	0	0	80
91	0.002	0.7	0.5	0.15	0	0	90

* NL DOEC, 2012 Table 3.1.3

Table 7 Land Use Parameterization – winter with snow cover

Input Category ID	z0 (m)	Albedo (0 to 1)	Bowen Ratio	Soil Heat Flux Parameter	Anthropogenic Heat Flux (W/m^2)	Leaf Area Index	Output Category ID
11	0.5	0.45	0.5	0.15	0	1	10
12	1	0.35	0.5	0.15	0	0.2	10
21	0.01	0.7	0.5	0.15	0	0	20
31	0.005	0.7	0.5	0.15	0	0.5	30
32	0.005	0.7	0.5	0.15	0	0.5	30
33	0.005	0.7	0.5	0.15	0	0.5	30
41	0.5	0.5	0.5	0.15	0	0	40
42	1.3	0.35	0.5	0.15	0	7	40
43	0.9	0.42	0.5	0.15	0	3.5	40
51	0.001	0.7	0.5	0.15	0	0	51
55	0.001	0.7	0.5	0.15	0	0	55
61	0.5	0.3	0.5	0.15	0	0	61
62	0.2	0.6	0.5	0.15	0	0	62
74	0.002	0.7	0.5	0.15	0	0	70
77	0.002	0.7	0.5	0.15	0	0	70
81	0.005	0.7	0.5	0.15	0	0	80
82	0.005	0.7	0.5	0.15	0	0	80
91	0.05	0.7	0.5	0.15	0	0	90

* NL DOEC, 2012 Table 3.1.4

Table 8 Land Use Classifications

11 – Residential	51 – Fresh Water
12 – Industrial / Commercial	55 – Salt Water
21 – Cropland and Pasture	61 – Forested Wetland
31 – Herbaceous Rangeland	62 – Non-forested Wetland
32 – Shrub and Brush Rangeland	74 – Bare Exposed Rock
33 – Mixed Rangeland	77 – Mixed Barren Land
41 – Deciduous Forest Land	81 – Shrub and Brush Tundra
42 – Evergreen Forest Land	82 – Herbaceous Tundra
43 – Mixed Forest Land	91 – Perennial Snow

* NL DOEC, 2012 Table 3.1.1

3.5 CALMET PARAMETRIZATION

CALMET was set to hybrid mode (*NOOBS = 1*), using one surface station and the 3D file for upper air data as discussed in the previous sections. Winds from the 3D data file were used as initial guess field (*IPROG = 14*) and given that the 3D data were available every three hours (*ISTEPPGS = 10800*), the surface wind observations were not extrapolated to upper layers. Precipitations were not included in the modelling.

In general, all CALMET default values have been used. However, the parameters without default values and to be specified by the user are presented in Table 9, including the maximum radiuses of influence and other wind field input parameters. A value of 10 km has been selected for the radius of influence of terrain features (*TERRAD*). The relative weightings between the first guess field and the observations in the surface layer (*R1*) and the layers aloft (*R2*) have been selected relatively small, in order to preserve the terrain effect determined in the first step (Step 1 wind field). The radiuses of influence (*RMAX1, RMAX2*) have been set to encompass Schefferville's surface station and the whole 3D data. Finally, it is also worth noting that the model was run in Schefferville time zone (UTC-0500).

Table 9 CALMET Parameters Used in the Modelling

Parameter	Parameter Description	Selected Value	
NOOBS	No Observation Mode	1	Use surface and overwater stations (no upper air observations) Use MM4/MM5/3D for upper air data
MCLOUD	Method to compute cloud fields	1	Clouds data generated from surface observations
IEXTRP	Surface wind observations extrapolation to upper layers	-1	No extrapolation is done
IPROG	Use gridded prognostic wind field model output fields as input to the diagnostic wind field model	14	Yes, use winds from MM5/3D.DAT file as initial guess field
ISTEPPGS	Timestep of the prognostic model input data	10800 seconds	
ITPROG	3D temperature from observations or from prognostic data	1	Use Surface stations (no upper air observations) Use MM5/3D for upper air data
DGRIDKM	Grid spacing	0.1 km	
NZ	Number of vertical layers	10	
ZFACE	Cell face heights	0, 20, 40 ,80, 160, 300, 600, 1000, 1500, 2000, 2500	
RMAX1	Maximum radius of influence over land in the surface layer	40 km	
RMAX2	Maximum radius of influence over land aloft	550 km	
TERRAD	Radius of influence of terrain features	10 km	
R1	Weighting parameter in the surface layers	3 km	
R2	Weighting parameter in the layers aloft	30 km	

4 MODELLING AND SOURCES DESCRIPTION

4.1 SOURCES DESCRIPTION

The following sections present a general description of the emission sources taken into account in the atmospheric dispersion modelling, along with technical considerations for their characterization and integration within the model. Mitigation measures and their impacts are also discussed.

The characterization of the sources is based on the scenario defined in Section 2.3 and the extraction schedule for year 1 given in Table 1. The various sources considered for the mine and the rail yard areas are located respectively on Maps 8 and 9.

4.1.1 DRILLING AND BLASTING

The complete set of drilling and blasting parameters is presented in Table 10. Based on similar DSO operations in the Schefferville region, it is assumed that only 50% of the rock will require drilling and blasting. The remaining rock will be “free dug” with excavators.

Based on the blasting parameters, a continuous drilling rate of 4.3 holes per hour was calculated and considered evenly throughout the mine schedule (March to November). Total particulate matter emission rate resulting from drilling operations is estimated based on section 11.9 of the AP-42 while scaling factors of 0.9 and 0.5 are assumed for PM_{10} and $PM_{2.5}$.

A total of 500 holes are expected per blast for a total blasted surface of 7380 m^2 per event. Particulate matter emission rates for the blasting operation are estimated according to the section 11.9 of the AP-42 (US-EPA, 1995). Emission rates for the CO, NO_x and SO_2 are estimated according to the *National Pollutant Inventory: Emission Estimation Technique Manual for Explosives Detonation and Firing Ranges* (DSEWPaC 2012) for a mixture of ANFO and emulsion in proportions of 40% and 60%. Explicit NO and NO_2 emission rates are evaluated considering a NO_2/NO_x ratio of 10%, which is considered as conservative. Indeed, an average value under 4% was measured by Attalla *et al.* (2008) for the detonation of ANFO explosives.

Emissions due to drilling and blasting operations were modelled using volume sources labelled [drill1] and [blast1]. The locations of these sources are shown on Map 8 while the physical parameters and estimated emission rates are given in Table 11. For the selected scenario, drilling and blasting activities are expected to occur at elevations around 492.5 m. The height of the blast is assumed to be around 15 m.

The blasting emission was set to be effective one hour per day, at noon. Although blasting events are expected to occur once every 5 or 6 days, they are set in the modelling to occur every day. Consequently, a day with a blasting event is considered as the worst-case scenario and is tested on every day of the 3-year meteorological sample.

Table 10 Drilling and Blasting Parameters

Description	Unit	Value
Extracted Tonnage for year 1	tonne/year	13 800 000
Blasted Tonnage for year 1 (50% of extracted)	tonne/year	6 900 000
Average Insitu Rock density	tonne/m^3	3.00
Powder Factor	kg/tonne	0.390
Explosives Density	tonne/m^3	1.25
Explosives Quantity required per year	tonne/year	2 691
Explosives Volume required per year	m^3/year	2 153
Blasthole Diameter	m	0.165
Bench Height	m	6.0
Stem Height	m	3.6
Subdrilling	m	1.7
Hole Length	m	7.7
Explosive Column Height	m	4.1
Explosive Volume per hole	m^3/hole	0.088
Explosive Quantity per hole	tonne/hole	0.110
Number of Holes per blast	holes/blast	500
Explosive Quantity per blast	**tonne/blast**	**54.79**
Drill rig operating days per year	days/year	274
Drill rig operating hours per day	hours/day	21
Number of Holes required per year	holes/year	24 556
Number of Blast per year	blast/year	49.1
Number of Holes drilled per day	holes/day	90.0
Number of Holes drilled per hour	**holes/hour**	**4.3**
Burden	m	3.6
Spacing	m	4.1
Blasted area per hole	m^2/hole	14.8
Total area per blast	**m^2/blast**	**7 380**
Explosives ANFO Ratio	%	40%
Explosives Emulsion Ratio	%	60%

Table 11 Physical Parameters and Emission Rates for the Drilling and Blasting Sources

Source ID	Description	Coordinates (UTM19 NAD83)		Release Height (m)	Elevation (m)	Sigma Y (m)	Sigma Z (m)	Emission Rates (g/s)					
		X (m)	Y (m)					TPM	PM_{10}	$PM_{2.5}$	CO	NO_x	SO_2
blast1	Blasting	658047.9	6086471.6	7.50	492.50	19.98	6.98	3.87E+01	2.01E+01	1.16E+00	3.62E+02	5.05E+01	9.13E-01
drill1	Drilling	658070.5	6086524.1	1.50	492.50	0.70	1.40	7.02E-01	6.32E-01	3.51E-01	-	-	-

Table 12 Physical Parameters and Emission Rates for the Loading and Dumping Sources

Source ID	Description	Coordinates (UTM19 NAD83)		Elevation (m)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Tonnage Handled (t/year)	Emission Factors Reference	Emission Rates (g/s)			Sched. (1)
		X (m)	Y (m)							TPM	PM_{10}	$PM_{2.5}$	
load_po	Loading in pit - ore	658071.7	6086455.3	486.5	2.991	0.523	0.452	2 500 000	AP-42 13.2.4 – Aggregate Handling	VAR.	VAR.	VAR.	M
dump_o1	Dumping ore at blending pad 1	656509.8	6085073.4	489.0	0.650	0.927	4.316	2 500 000	AP-42 13.2.4 – Aggregate Handling	VAR.	VAR.	VAR.	M
dump_o2	Dumping ore at blending pad 2	656618.4	6084966.7	489.0	0.650	0.927	4.316	0	AP-42 13.2.4 – Aggregate Handling	VAR.	VAR.	VAR.	M
load_pw	Loading in pit - waste	658087.9	6086500.3	486.5	2.991	0.523	0.452	10 800 000	AP-42 13.2.4 – Aggregate Handling	VAR.	VAR.	VAR.	M
dump_wst	Dumping waste at waste rock dump	657594.5	6087996.4	530.0	0.650	0.927	4.316	10 800 000	AP-42 13.2.4 – Aggregate Handling	VAR.	VAR.	VAR.	M
load_plg	Loading in pit - low grade	658081.6	6086480.7	486.5	2.991	0.523	0.452	0	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	M
dump_lg1	Dumping low grade at low-grade pad1	657847.5	6085454.1	544.0	0.650	0.927	4.316	0	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	M
dump_lg2	Dumping low grade at low-grade pad2	658070.7	6085625.0	541.0	0.650	0.927	4.316	0	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	M
load_pob	Loading in pit - overburden	658061.7	6086433.1	486.5	2.991	0.523	0.452	500 000	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	M
dump_ob	Dumping overburden at ob dump	658691.9	6086782.4	535.9	0.650	0.927	4.316	500 000	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	M
dump_pls	Dumping sinter product to plant stockpile	656928.5	6084864.3	489.0	1.715	0.837	0.797	875 000	AP-42 11.24.1 - Material handling and transfer (high moisture)	2.11E-01	8.44E-02	4.22E-02	P
dump_pll	Dumping lump product to plant stockpile	656774.4	6084698.9	489.0	1.715	0.837	0.797	1 625 000	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	P
load_hts	Loading hauling tractor - sinter	656936.6	6084747.7	489.0	2.650	0.884	0.303	875 000	AP-42 11.24.1 - Material handling and transfer (high moisture)	2.11E-01	8.44E-02	4.22E-02	H

Table 12 Physical Parameters and Emission Rates for the Loading and Dumping Sources (Cont'd)

Source ID	Description	Coordinates (UTM19 NAD83)		Elevation (m)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Tonnage Handled (t/year)	Emission Factors Reference	Emission Rates (g/s)			Sched. (1)
		X (m)	Y (m)							TPM	PM_{10}	$PM_{2.5}$	
dump_rys	Dumping sinter at rail yard	652313.1	6057837.2	505.9	0.290	0.685	3.828	875 000	AP-42 11.24.1 - Material handling and transfer (high moisture)	2.11E-01	8.44E-02	4.22E-02	H
load_htl	Loading hauling tractor - lump	656893.4	6084700.8	489.0	2.650	0.884	0.303	1 625 000	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	H
dump_ryl	Dumping lump at rail yard	652100.8	6058081.2	505.9	0.290	0.685	3.828	1 625 000	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.	H
load_ts1	Loading train - sinter1	652172.0	6057909.9	503.2	1.957	0.884	0.390	218 750	AP-42 11.24.1 - Material handling and transfer (high moisture)	4.44E-01	1.78E-01	8.88E-02	R
load_ts2	Loading train - sinter2	652209.8	6057865.6	503.2	1.957	0.884	0.390	218 750	AP-42 11.24.1 - Material handling and transfer (high moisture)	4.44E-01	1.78E-01	8.88E-02	R
load_ts3	Loading train - sinter3	652248.8	6057818.4	503.2	1.957	0.884	0.390	218 750	AP-42 11.24.1 - Material handling and transfer (high moisture)	4.44E-01	1.78E-01	8.88E-02	R
load_ts4	Loading train - sinter4	652280.8	6057780.2	503.2	1.957	0.884	0.390	218 750	AP-42 11.24.1 - Material handling and transfer (high moisture)	4.44E-01	1.78E-01	8.88E-02	R
load_tl1	Loading train - lump1	651973.8	6058149.6	503.2	1.957	0.884	0.390	406 250	AP-42 13.2.4 - Aggregate Handling	-	-	-	R
load_tl2	Loading train - lump2	652004.3	6058113.4	503.2	1.957	0.884	0.390	406 250	AP-42 13.2.4 - Aggregate Handling	-	-	-	R
load_tl3	Loading train - lump3	652043.2	6058067.1	503.2	1.957	0.884	0.390	406 250	AP-42 13.2.4 - Aggregate Handling	-	-	-	R
load_tl4	Loading train - lump4	652077.1	6058025.5	503.2	1.957	0.884	0.390	406 250	AP-42 13.2.4 - Aggregate Handling	-	-	-	R

(1) M: 274 days/yr (March 1st to November 30th) - 24/7

H: 240 days/yr (April 1st to December 8th) - 24/7

P: 240 days/yr (April 1st to November 30th) - 24/7

R: 237 days/yr (April 15th to December 8th) - 18h per train, 2 trains every 4 days

Table 13 Hauling Route Description

Route ID	Description	Route Length (m)	Quantity of Material Moved (t/year)			Number of Travels per Day [1]			Schedule
			Caterpillar 988H	Caterpillar 775G	Western Star 6900XD	Caterpillar 988H	Caterpillar 775G	Western Star 6900XD	
P07_P05	Pit to overburden dump	2 066	0	500 000	0	0	58	0	March 1st to November 30th
P07_P01	Pit to waste rock dump	2 647	0	10 800 000	0	0	1239	0	March 1st to November 30th
P07_P17	Pit to low-grade pad 1	2 157	0	0	0	0	0	0	March 1st to November 30th
P07_P12	Pit to low-grade pad 2	1 856	0	0	0	0	0	0	March 1st to November 30th
P07_P20	Pit to blending pad 1	3 137	0	2 500 000	0	0	287	0	March 1st to November 30th
P07_P22	Pit to blending pad 2	3 066	0	0	0	0	0	0	March 1st to November 30th
P23_P24	FEL plant feed	162	2 500 000	0	0	1828	0	0	April 1st to November 30th
P25_P26	FEL sinter product	139	875 000	0	0	640	0	0	April 1st to November 30th
P27_P28	FEL lump product	156	1 625 000	0	0	1188	0	0	April 1st to November 30th
P30_P39	Sinter product to railyard	44 244	0	0	875 000	0	0	70	April 8th to December 8th
P32_P37	Lump product to railyard	43 985	0	0	1 625 000	0	0	130	April 8th to December 8th

[1] Back and forth count as 2.

Table 14 Hauling Vehicle Description

Vehicle	Height (m)	Width (m)	Weight (t)	Payload (t)
Caterpillar 775G	4.459	5.012	48.17	63.7
Western Star 6900XD	3.835	3.251	64.46	104.9
Caterpillar 988H	2.716	3.269	50.14	11.4

4.1.2 HANDLING

Caterpillar 775 haul trucks are loaded within the pit by Komatsu PC1250 excavators. After hauling, the ore is dumped on the blending pad while the waste rock and overburden are moved to the corresponding dumps.

On the plant pad, the crushing and screening plant is fed by front-end loaders while additional handling is accomplished by front-end loaders to move the plant products to the buffer stockpiles. Sinter and lump products are loaded from the buffer stockpiles into hauling tractors by front-end loaders. A total of five Caterpillar 988H and two Caterpillar 980 are planned on the plant pad to accomplish these operations.

In the rail yard area, sinter and lump products are finally dumped on the corresponding rail yard stockpiles by the hauling tractors while four Caterpillar 988H loaders are used to load the trains from the product stockpiles.

These sources of particulate matter are modelled as volume sources, which can be located on Maps 8 and 9. The physical parameters and emission rates are detailed in Table 12. One must note that the emissions related to the plant feeding operation are assumed to be included in the crushing emission rate, which is discussed in Section 4.1.5.

The emission rates for the handling of the waste rock, the overburden, the run of mine (ROM) and the lump product are computed according to the AP-42, section 13.2.4 *Aggregate Handling and Storage Piles*. For each of these sources, variable emissions are computed using the hourly wind speed extracted from the CALMET at the source locations (represented by VAR. in Table 12). The emission rates for the handling of the sinter product are estimated according to the AP-42, *11.24 Metallic Minerals Processing*. Based on information provided by Labec, a moisture content of 6.0% is considered for all types of materials and lump and sinter products are considered in proportions of 65/35% respectively.

All loading and dumping sources are considered as continuous throughout the day, except for the train loading operation, which is set to be effective 18 hours per day, from 6 AM to midnight. Although two trains are expected every four days, the sources are set active every day in the modelling. Moreover, the loading of a train of sinter product is considered, maximizing once again the daily emissions. Consequently, the day when the sinter train loading operation occurs is considered as the worst-case scenario and is tested on every day of the 3-year meteorological sample.

4.1.3 HAULING

The hauling of the various materials over unpaved roads is usually the main contributor of all particulate matter emissions generated by open pit mining activities. Hence, since the magnitude of these emissions is proportional to the displaced tonnage, the types of vehicle and the silt content of the road surfaces, the various routes across the mining site (pit to waste rock dump, to blending pad, etc.) must be sufficiently detailed in order to determine specific emission rates for each road segment.

Based on the Project Description and layout, the roads' network has been split into 36 segments, labeled by their starting and ending points. These endpoints and segments are shown on Maps 8 and 9. Based on the extraction schedule (Table 1), the various hauling routes over these segments have been identified and are detailed in Table 13. The routes are also labeled by their starting and ending points. One must note that, although two low-grade stockpiles are planned, low-grade extraction schedule is not currently known, and hence, is not considered in the present study. Moreover, since significant distances are traveled by front-end loaders over the plant pad, haul routes have also been defined for these loaders.

The schedule of operation and the quantity of material moved (Table 13) were used along with the vehicle payloads (Table 14) to compute the number of travels per day over each segment. Corresponding emission rates are estimated based on the emission factors proposed in section 13.2.2 of the AP-42, *Unpaved Roads* and the average weight of the vehicles on each segment. These emission rates are presented along with the physical characteristics for each segment in Table 15. Hauling emissions are considered as continuous throughout each hour of the related schedules (see Section 2.3).

The emissions on the various segments are modelled using series of alternate volume sources, which are also illustrated on Maps 8 and 9. The distances between these volumes are computed based on the road width, where 6 m is added to represent turbulence caused by the vehicles as they move on the roads. Resulting volume locations are listed in Table 16. One must note that the segments P34_P35 and P36_P35 which connect the plant to the rail yard are approximately 43 km long, and the middle part of it falls out of both modelling domains. Since the emissions are spread equally on the route, similar behaviors are expected along it. This exclusion allows to greatly reduce the computational runtime without losing any insight.

MITIGATION METHODS

In order to reduce dust emissions from hauling over unpaved roadways, application of chloride-based dust suppressant has been considered on all segments. Chloride-based dust suppressant application is to be done annually or biannually according to federal guidance[3] and is expected to provide a dust emission reduction around 84%[4,5].

Moreover, according to the description of the various segments, the topography and the number of vehicles available, the maximum speed of the 775G haul trucks and 988H loaders should not exceed 40 km/h in the mine area, which provides an additional reduction over the emission factors. An additional mitigation of 44%[4,5] has then been considered, and a mitigation factor of 0.10 is used to take into account a combined dust reduction of 90% on these segments.

Total mitigation considered for each segment is given in Table 15. One must note that emission factors are estimated, for each segment, using a conservative silt content of 8.3%. Proper road maintenance may allow controlling the silt content to a lower value, which would contribute in reducing the particulate matter emissions from the hauling. Watering may finally be used as an alternative or in addition to the chloride-based treatment in order to achieve the desired mitigation objective.

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[3] Environment Canada. *Best Practices for the Use and Storage of Chloride-Based Dust Suppressants*. February 2007. Online: http://www.ec.gc.ca/nopp/roadsalt/reports/chlorideBP/en/p3.cfm

[4] Western Regional Air Partnership. *WRAP Fugitive Dust Handbook*. September 2006.Online: http://www.wrapair.org/forums/dejf/fdh/content/FDHandbook_Rev_06.pdf

[5] Golder Associates. *Literature review of Current Fugitive Dust Control Practices within the Mining Industry.* August 2010.

Table 15 Hauling Segment Description

Segment ID	Width (m)	Length (m)	Silt Content (%)	Number of Travels per Day [1]	Hours Worked per Day	Average Vehicle Weight (tons)	Average Vehicle Height (m)	TPM Emission Factor (lb/VMT)	PM_{10} Emission Factor (lb/VMT)	$PM_{2.5}$ Emission Factor (lb/VMT)	VKT	TPM Emission Rate (g/s)	PM_{10} Emission Rate (g/s)	$PM_{2.5}$ Emission Rate (g/s)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Mitigation (%)
P02_P01	16.2	1 177	8.3	1 239	24	88.2	4.46	17.332	4.929	0.493	1458.61	8.25E+01	2.35E+01	2.35E+00	3.79	20.651	3.526	90
P03_P02	16.2	188	8.3	1 239	24	88.2	4.46	17.332	4.929	0.493	233.10	1.32E+01	3.75E+00	3.75E-01	3.79	20.651	3.526	90
P06_P03	16.2	386	8.3	1 297	24	88.2	4.46	17.332	4.929	0.493	500.03	2.83E+01	8.04E+00	8.04E-01	3.79	20.651	3.526	90
P04_P03	16.2	563	8.3	58	24	88.2	4.46	17.332	4.929	0.493	32.68	1.85E+00	5.26E-01	5.26E-02	3.79	20.651	3.526	90
P04_P05	16.2	220	8.3	58	24	88.2	4.46	17.332	4.929	0.493	12.79	7.23E-01	2.06E-01	2.06E-02	3.79	20.651	3.526	90
P06_P08	16.2	474	8.3	287	24	88.2	4.46	17.332	4.929	0.493	136.05	7.69E+00	2.19E+00	2.19E-01	3.79	20.651	3.526	90
P06_P07	16.2	896	8.3	1 584	24	88.2	4.46	17.332	4.929	0.493	1420.02	8.03E+01	2.28E+01	2.28E+00	3.79	20.651	3.526	90
P08_P09	16.2	165	8.3	287	24	88.2	4.46	17.332	4.929	0.493	47.33	2.68E+00	7.61E-01	7.61E-02	3.79	20.651	3.526	90
P08_P10	16.2	147	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P09_P13	16.2	121	8.3	287	24	88.2	4.46	17.332	4.929	0.493	34.63	1.96E+00	5.57E-01	5.57E-02	3.79	20.651	3.526	90
P09_P10	16.2	163	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P10_P11	16.2	70	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P11_P12	16.2	268	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P13_P14	16.2	152	8.3	287	24	88.2	4.46	17.332	4.929	0.493	43.68	2.47E+00	7.02E-01	7.02E-02	3.79	20.651	3.526	90
P13_P15	16.2	133	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P14_P18	16.2	932	8.3	287	24	88.2	4.46	17.332	4.929	0.493	267.44	1.51E+01	4.30E+00	4.30E-01	3.79	20.651	3.526	90
P14_P15	16.2	163	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P15_P16	16.2	107	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P16_P17	16.2	260	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P21_P18	16.2	154	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 15 Hauling Segment Description (Cont'd)

Segment ID	Width (m)	Length (m)	Silt Content (%)	Number of Travels per Day [1]	Hours Worked per Day	Average Truck Weight (tons)	Average Truck Height (m)	TPM Emission Factor (lb/VMT)	PM_{10} Emission Factor (lb/VMT)	$PM_{2.5}$ Emission Factor (lb/VMT)	VKT	TPM Emission Rate (g/s)	PM_{10} Emission Rate (g/s)	$PM_{2.5}$ Emission Rate (g/s)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Mitigation (%)
P18_P19	16.2	233	8.3	287	24	88.2	4.46	17.332	4.929	0.493	66.95	3.79E+00	1.08E+00	1.08E-01	3.79	20.651	3.526	90
P19_P20	16.2	163	8.3	287	24	88.2	4.46	17.332	4.929	0.493	46.82	2.65E+00	7.53E-01	7.53E-02	3.79	20.651	3.526	90
P21_P22	16.2	172	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P23_P24	7.2	162	8.3	1 828	24	61.6	2.72	14.743	4.192	0.419	295.96	1.42E+01	4.05E+00	4.05E-01	2.31	12.275	2.148	90
P25_P26	7.2	139	8.3	640	24	61.6	2.72	14.743	4.192	0.419	89.22	4.29E+00	1.22E+00	1.22E-01	2.31	12.275	2.148	90
P27_P28	7.2	156	8.3	1 188	24	61.6	2.72	14.743	4.192	0.419	185.85	8.94E+00	2.54E+00	2.54E-01	2.31	12.275	2.148	90
P31_P29	15.0	88	8.3	70	24	128.9	3.84	20.559	5.846	0.585	6.15	4.13E-01	1.17E-01	1.17E-02	3.26	19.535	3.033	90
P29_P30	15.0	140	8.3	70	24	128.9	3.84	20.559	5.846	0.585	9.82	6.59E-01	1.87E-01	1.87E-02	3.26	19.535	3.033	90
P31_P34	15.0	155	8.3	70	24	128.9	3.84	20.559	5.846	0.585	10.82	7.26E-01	2.06E-01	2.06E-02	3.26	19.535	3.033	90
P33_P32	15.0	181	8.3	130	24	128.9	3.84	20.559	5.846	0.585	23.56	1.58E+00	4.49E-01	4.49E-02	3.26	19.535	3.033	90
P34_P33	15.0	264	8.3	130	24	128.9	3.84	20.559	5.846	0.585	34.35	2.30E+00	6.55E-01	6.55E-02	3.26	19.535	3.033	90
P34_P35	15.0	9 453	8.3	200	24	128.9	3.84	20.559	5.846	0.585	1890.60	1.27E+02	3.61E+01	3.61E+00	3.26	19.535	3.033	84
P36_P35	15.0	33 874	8.3	200	24	128.9	3.84	20.559	5.846	0.585	6774.89	4.54E+02	1.29E+02	1.29E+01	3.26	19.535	3.033	84
P36_P38	15.0	166	8.3	200	24	128.9	3.84	20.559	5.846	0.585	33.13	2.22E+00	6.32E-01	6.32E-02	3.26	19.535	3.033	84
P38_P37	15.0	46	8.3	130	24	128.9	3.84	20.559	5.846	0.585	5.98	4.01E-01	1.14E-01	1.14E-02	3.26	19.535	3.033	84
P38_P39	15.0	368	8.3	70	24	128.9	3.84	20.559	5.846	0.585	25.77	1.73E+00	4.92E-01	4.92E-02	3.26	19.535	3.033	84

[1] Back and forth count as 2.

Table 16 Locations of the Hauling Sources

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0001	657947.5	6086963.8	566.4	hlg0044	658315.1	6086761.5	551.0
hlg0002	657956.2	6087007.2	562.0	hlg0045	658270.7	6086762.4	550.4
hlg0003	657955.0	6087051.1	558.5	hlg0046	658226.3	6086763.3	552.0
hlg0004	657944.1	6087093.6	554.2	hlg0047	658182.2	6086764.2	556.0
hlg0005	657925.3	6087133.4	549.9	hlg0048	658138.1	6086765.2	560.0
hlg0006	657902.1	6087171.2	547.3	hlg0049	658093.7	6086766.1	560.0
hlg0007	657876.0	6087207.0	544.5	hlg0050	658049.3	6086767.0	560.0
hlg0008	657849.7	6087242.6	541.7	hlg0051	658005.0	6086767.9	560.0
hlg0009	657821.4	6087276.7	539.3	hlg0052	657960.6	6086768.8	560.0
hlg0010	657793.7	6087311.3	536.6	hlg0053	657916.2	6086769.8	560.0
hlg0011	657767.5	6087346.9	533.0	hlg0054	658484.9	6086757.9	548.0
hlg0012	657741.3	6087382.6	530.2	hlg0055	658529.0	6086757.5	543.7
hlg0013	657714.7	6087418.2	530.0	hlg0056	658573.3	6086759.4	540.9
hlg0014	657687.9	6087453.6	530.0	hlg0057	658617.0	6086766.6	539.0
hlg0015	657661.2	6087489.0	530.0	hlg0058	658659.9	6086777.9	537.1
hlg0016	657637.3	6087526.4	530.0	hlg0059	657940.6	6086486.0	529.9
hlg0017	657615.0	6087564.8	530.0	hlg0060	657931.2	6086442.7	529.0
hlg0018	657592.8	6087603.2	530.0	hlg0061	657921.7	6086399.3	528.5
hlg0019	657574.7	6087643.6	530.0	hlg0062	657912.2	6086355.9	528.4
hlg0020	657560.3	6087685.6	530.0	hlg0063	657902.7	6086312.5	528.8
hlg0021	657545.9	6087727.6	530.0	hlg0064	657893.3	6086269.2	530.6
hlg0022	657534.7	6087770.1	530.0	hlg0065	657883.8	6086225.9	532.6
hlg0023	657536.5	6087814.4	530.0	hlg0066	657874.3	6086182.5	533.5
hlg0024	657538.2	6087858.8	530.0	hlg0067	657864.8	6086139.1	534.0
hlg0025	657549.8	6087901.4	530.0	hlg0068	657855.4	6086095.8	534.0
hlg0026	657563.9	6087943.5	530.0	hlg0069	657845.9	6086052.4	533.5
hlg0027	657579.7	6087985.0	530.0	hlg0070	657949.3	6086526.5	531.6
hlg0028	657906.5	6086796.8	563.7	hlg0071	657962.1	6086566.7	527.4
hlg0029	657917.0	6086839.9	566.2	hlg0072	657997.1	6086591.7	523.5
hlg0030	657927.5	6086883.0	567.9	hlg0073	658041.0	6086596.2	519.4
hlg0031	657938.0	6086926.2	567.7	hlg0074	658084.9	6086591.8	515.3
hlg0032	657937.1	6086487.2	530.1	hlg0075	658127.5	6086580.2	511.0
hlg0033	657898.6	6086469.7	533.6	hlg0076	658171.0	6086573.0	506.9
hlg0034	657863.9	6086493.7	537.7	hlg0077	658212.9	6086559.7	502.6
hlg0035	657863.3	6086537.1	539.5	hlg0078	658254.3	6086545.5	498.4
hlg0036	657870.4	6086580.9	541.5	hlg0079	658298.2	6086547.3	494.2
hlg0037	657877.4	6086624.6	545.8	hlg0080	658339.3	6086563.0	490.3
hlg0038	657884.5	6086668.3	550.2	hlg0081	658380.8	6086576.8	486.5
hlg0039	657891.5	6086711.8	554.6	hlg0082	658395.9	6086542.6	486.5
hlg0040	657898.5	6086755.2	559.0	hlg0083	658361.8	6086516.1	486.5
hlg0041	658448.2	6086758.7	549.9	hlg0084	658319.3	6086503.3	486.5
hlg0042	658403.8	6086759.7	550.6	hlg0085	658275.8	6086494.3	486.5
hlg0043	658359.4	6086760.6	550.2	hlg0086	658232.2	6086486.1	486.5

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0087	658188.2	6086480.2	486.5	hlg0167	656667.2	6084993.0	489.0
hlg0088	658144.0	6086475.5	486.5	hlg0168	656678.6	6084969.2	489.0
hlg0089	658099.8	6086471.7	486.5	hlg0169	656689.7	6084945.3	489.0
hlg0090	657835.0	6086023.9	532.4	hlg0170	656701.0	6084921.4	489.0
hlg0091	657799.7	6085997.8	528.0	hlg0171	656716.0	6084899.9	489.0
hlg0092	657762.2	6085974.5	523.8	hlg0172	656739.6	6084891.3	489.0
hlg0093	657724.7	6085951.1	519.4	hlg0173	656805.4	6084845.1	489.0
hlg0097	657697.8	6085934.4	517.9	hlg0174	656831.6	6084841.7	489.0
hlg0098	657660.1	6085910.9	516.9	hlg0175	656857.9	6084842.7	489.0
hlg0099	657622.4	6085887.5	516.8	hlg0176	656883.6	6084848.6	489.0
hlg0112	657582.0	6085862.3	518.6	hlg0177	656908.2	6084858.0	489.0
hlg0113	657544.4	6085838.9	521.3	hlg0178	656759.8	6084846.0	489.0
hlg0114	657506.7	6085815.5	520.4	hlg0179	656757.1	6084819.8	489.0
hlg0118	657461.2	6085787.1	518.6	hlg0180	656755.5	6084793.5	489.0
hlg0119	657423.8	6085763.9	514.2	hlg0181	656756.0	6084767.1	489.0
hlg0120	657386.6	6085740.7	509.8	hlg0182	656758.7	6084740.8	489.0
hlg0121	657349.2	6085717.4	505.4	hlg0183	656765.7	6084715.5	489.0
hlg0122	657311.8	6085694.2	501.0	hlg0184	657106.0	6084699.0	488.0
hlg0123	657274.4	6085670.9	496.6	hlg0185	657068.5	6084714.1	488.0
hlg0124	657236.8	6085647.5	492.2	hlg0186	657030.7	6084748.3	489.0
hlg0125	657199.2	6085624.1	487.8	hlg0187	656996.1	6084771.7	489.0
hlg0126	657161.5	6085600.6	483.6	hlg0188	656955.1	6084771.9	489.0
hlg0127	657123.8	6085577.2	481.7	hlg0189	657128.0	6084683.3	488.0
hlg0128	657087.1	6085552.5	480.2	hlg0190	657125.3	6084641.4	488.4
hlg0129	657056.5	6085520.4	479.0	hlg0191	657124.4	6084599.5	489.0
hlg0130	657025.9	6085488.3	477.9	hlg0192	657141.0	6084561.3	489.0
hlg0131	656995.2	6085456.2	476.8	hlg0193	656872.3	6084578.6	489.0
hlg0132	656964.6	6085424.0	476.4	hlg0194	656845.8	6084611.0	489.0
hlg0133	656934.0	6085391.9	478.0	hlg0195	656841.8	6084651.1	489.0
hlg0134	656903.4	6085359.8	479.9	hlg0196	656865.8	6084685.1	489.0
hlg0135	656872.7	6085327.7	481.4	hlg0197	657124.1	6084559.3	489.0
hlg0136	656842.1	6085295.6	483.0	hlg0198	657082.5	6084561.5	489.8
hlg0137	656811.5	6085263.5	484.3	hlg0199	657041.0	6084555.0	490.1
hlg0138	656780.9	6085231.5	485.6	hlg0200	656999.5	6084548.4	491.0
hlg0154	656738.7	6085222.0	487.0	hlg0201	656958.0	6084542.2	491.0
hlg0155	656695.5	6085232.2	488.0	hlg0202	656916.7	6084547.7	491.0
hlg0156	656652.3	6085242.4	488.8	hlg0203	657166.6	6084535.2	488.6
hlg0157	656608.9	6085249.0	489.0	hlg0204	657198.6	6084508.0	488.0
hlg0158	656575.8	6085220.4	490.0	hlg0205	657230.6	6084480.8	488.0
hlg0159	656546.5	6085189.2	489.0	hlg0206	657262.6	6084453.6	488.0
hlg0160	656516.2	6085156.8	489.0	hlg0207	657294.6	6084426.4	488.0
hlg0161	656485.8	6085124.4	489.0	hlg0208	657326.6	6084399.2	488.0
hlg0162	656487.8	6085086.5	489.0	hlg0209	657358.6	6084372.0	488.0

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0210	657390.5	6084344.8	488.0	hlg0253	658592.0	6083031.2	495.2
hlg0211	657422.5	6084317.6	488.0	hlg0254	658627.5	6083008.8	495.5
hlg0212	657454.5	6084290.4	488.0	hlg0255	658663.0	6082986.5	494.9
hlg0213	657486.5	6084263.2	489.0	hlg0256	658701.5	6082970.2	494.3
hlg0214	657518.5	6084236.0	489.4	hlg0257	658741.2	6082956.4	494.2
hlg0215	657550.5	6084208.8	490.2	hlg0258	658780.8	6082942.5	495.5
hlg0216	657576.2	6084175.8	491.0	hlg0259	658820.4	6082928.7	496.5
hlg0217	657597.7	6084139.8	492.0	hlg0260	658860.1	6082914.9	497.2
hlg0218	657619.2	6084103.7	493.0	hlg0261	658899.7	6082901.0	497.6
hlg0219	657640.8	6084067.7	493.0	hlg0262	658939.4	6082887.2	497.8
hlg0220	657662.3	6084031.7	493.6	hlg0263	658979.0	6082873.4	497.6
hlg0221	657683.9	6083995.6	493.9	hlg0264	659018.7	6082859.5	497.0
hlg0222	657705.4	6083959.6	494.0	hlg0265	659058.3	6082845.7	496.4
hlg0223	657727.3	6083923.7	493.9	hlg0266	659098.0	6082831.8	495.7
hlg0224	657749.6	6083888.1	494.0	hlg0267	659137.6	6082818.0	494.7
hlg0225	657772.2	6083852.7	494.0	hlg0268	659177.2	6082804.2	493.4
hlg0226	657795.3	6083817.6	494.6	hlg0269	659213.1	6082783.0	492.1
hlg0227	657818.7	6083782.8	494.7	hlg0270	659247.0	6082758.4	490.8
hlg0228	657842.5	6083748.2	494.9	hlg0271	659281.0	6082733.7	489.5
hlg0229	657866.7	6083713.9	494.6	hlg0272	659315.0	6082709.0	489.0
hlg0230	657891.3	6083679.8	494.3	hlg0273	659349.0	6082684.4	489.9
hlg0231	657916.2	6083646.1	493.6	hlg0274	659382.9	6082659.7	490.0
hlg0232	657941.6	6083612.6	493.0	hlg0275	659416.9	6082635.1	489.7
hlg0233	657967.3	6083579.4	493.3	hlg0276	659450.9	6082610.4	488.6
hlg0234	657993.3	6083546.5	494.3	hlg0277	659484.9	6082585.7	487.5
hlg0235	658019.7	6083513.8	495.9	hlg0278	659518.9	6082561.1	487.3
hlg0236	658046.5	6083481.6	498.5	hlg0279	659552.9	6082536.4	486.2
hlg0237	658073.6	6083449.5	499.2	hlg0280	659586.8	6082511.8	485.2
hlg0238	658101.1	6083417.8	498.5	hlg0281	659620.8	6082487.1	485.4
hlg0239	658129.0	6083386.4	497.3	hlg0282	659654.8	6082462.4	485.0
hlg0240	658157.2	6083355.3	496.5	hlg0283	659688.8	6082437.8	484.8
hlg0241	658185.7	6083324.5	496.6	hlg0284	659722.8	6082413.1	484.4
hlg0242	658214.6	6083294.0	497.2	hlg0285	659756.7	6082388.5	483.6
hlg0243	658243.8	6083263.8	497.1	hlg0286	659790.7	6082363.8	483.1
hlg0244	658273.3	6083234.0	497.0	hlg0287	659824.7	6082339.1	482.5
hlg0245	658307.7	6083210.1	496.3	hlg0288	659858.7	6082314.5	482.2
hlg0246	658343.2	6083187.7	494.3	hlg0289	659892.7	6082289.8	482.1
hlg0247	658378.7	6083165.4	493.2	hlg0290	659926.7	6082265.1	481.9
hlg0248	658414.3	6083143.0	493.2	hlg0291	659960.6	6082240.5	481.1
hlg0249	658449.8	6083120.6	493.7	hlg0292	659994.6	6082215.8	480.8
hlg0250	658485.3	6083098.3	493.4	hlg0293	660028.6	6082191.2	480.6
hlg0251	658520.9	6083075.9	493.9	hlg0294	660062.6	6082166.5	479.8
hlg0252	658556.4	6083053.6	495.0	hlg0295	660096.6	6082141.8	479.4

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0296	660130.6	6082117.2	479.1	hlg0339	659568.8	6081274.9	468.0
hlg0297	660164.6	6082092.5	479.0	hlg0340	659528.0	6081264.7	468.0
hlg0298	660198.5	6082067.8	478.9	hlg0341	659487.3	6081254.5	468.0
hlg0299	660232.5	6082043.2	478.9	hlg0342	659446.5	6081244.4	468.0
hlg0300	660266.5	6082018.5	478.9	hlg0343	659405.8	6081234.2	468.0
hlg0301	660300.5	6081993.8	479.0	hlg0344	659365.0	6081224.0	468.0
hlg0302	660334.5	6081969.2	479.7	hlg0345	659324.3	6081213.8	468.0
hlg0303	660368.5	6081944.5	480.0	hlg0346	659283.6	6081203.6	468.0
hlg0304	660402.5	6081919.8	481.0	hlg0347	659242.8	6081193.5	468.0
hlg0305	660436.4	6081895.2	481.0	hlg0348	659202.1	6081183.3	468.0
hlg0306	660470.4	6081870.5	481.0	hlg0349	659161.3	6081173.1	468.0
hlg0307	660504.4	6081845.8	481.1	hlg0350	659120.6	6081162.9	468.0
hlg0308	660535.3	6081817.5	481.1	hlg0351	659079.8	6081152.7	468.0
hlg0309	660559.6	6081783.3	481.0	hlg0352	659039.1	6081142.5	468.0
hlg0310	660576.2	6081744.8	480.5	hlg0353	658998.3	6081132.4	468.0
hlg0311	660584.5	6081703.7	480.0	hlg0354	658957.6	6081122.2	468.0
hlg0312	660584.0	6081661.8	479.1	hlg0355	658916.9	6081112.0	469.3
hlg0313	660574.8	6081621.0	478.2	hlg0356	658876.2	6081101.8	471.3
hlg0314	660557.2	6081582.9	477.6	hlg0357	658835.5	6081091.7	473.7
hlg0315	660532.2	6081549.3	477.0	hlg0358	658794.9	6081081.5	476.7
hlg0316	660500.7	6081521.7	476.0	hlg0359	658754.3	6081071.4	480.5
hlg0317	660464.1	6081501.3	475.3	hlg0360	658712.9	6081065.4	484.0
hlg0318	660424.1	6081488.6	475.0	hlg0361	658671.2	6081068.1	486.4
hlg0319	660383.4	6081478.4	474.2	hlg0362	658630.8	6081079.4	487.2
hlg0320	660342.6	6081468.2	474.0	hlg0363	658593.5	6081098.5	487.1
hlg0321	660301.9	6081458.1	473.0	hlg0364	658557.0	6081119.2	485.6
hlg0322	660261.2	6081447.9	472.3	hlg0365	658520.6	6081140.0	484.0
hlg0323	660220.4	6081437.7	472.0	hlg0366	658484.1	6081160.8	483.7
hlg0324	660179.7	6081427.5	472.0	hlg0367	658447.6	6081181.6	483.3
hlg0325	660138.9	6081417.4	472.0	hlg0368	658411.1	6081202.3	483.7
hlg0326	660098.2	6081407.2	472.0	hlg0369	658374.6	6081223.1	485.2
hlg0327	660057.4	6081397.0	472.2	hlg0370	658338.2	6081243.9	487.2
hlg0328	660017.0	6081386.9	468.2	hlg0371	658301.7	6081264.6	488.1
hlg0329	659976.2	6081376.7	468.0	hlg0372	658265.2	6081285.4	486.9
hlg0330	659935.5	6081366.5	468.0	hlg0373	658228.8	6081306.2	485.3
hlg0331	659894.7	6081356.3	468.0	hlg0374	658192.5	6081326.9	488.7
hlg0332	659854.0	6081346.2	468.0	hlg0375	658156.1	6081347.6	491.9
hlg0333	659813.2	6081336.0	468.0	hlg0376	658119.6	6081368.4	493.7
hlg0334	659772.5	6081325.8	468.6	hlg0377	658083.1	6081389.1	494.4
hlg0335	659731.8	6081315.6	469.0	hlg0378	658046.6	6081409.9	495.1
hlg0336	659691.0	6081305.4	469.0	hlg0379	658010.2	6081430.7	495.9
hlg0337	659650.3	6081295.3	468.0	hlg0380	657973.7	6081451.5	496.7
hlg0338	659609.5	6081285.1	468.0	hlg0381	657937.2	6081472.2	498.3

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0382	657900.8	6081493.0	500.9	hlg0425	656334.0	6082385.4	576.9
hlg0383	657864.4	6081513.7	504.0	hlg0426	656297.6	6082406.1	580.1
hlg0384	657828.0	6081534.4	507.2	hlg0427	656261.1	6082426.8	581.9
hlg0385	657791.6	6081555.2	510.3	hlg0428	652010.9	6058260.6	505.0
hlg0386	657755.2	6081575.9	512.0	hlg0429	651990.6	6058297.2	502.0
hlg0387	657718.7	6081596.7	513.7	hlg0430	651970.3	6058333.9	499.0
hlg0388	657682.3	6081617.4	517.2	hlg0431	651949.9	6058370.6	496.0
hlg0389	657646.0	6081638.1	521.3	hlg0432	651929.6	6058407.3	493.0
hlg0390	657609.7	6081658.8	524.7	hlg0433	651909.2	6058444.0	491.1
hlg0391	657573.3	6081679.5	528.0	hlg0434	651888.9	6058480.8	490.6
hlg0392	657536.9	6081700.2	530.9	hlg0435	651868.5	6058517.5	489.5
hlg0393	657500.5	6081721.0	533.3	hlg0436	651848.2	6058554.2	488.4
hlg0394	657464.0	6081741.7	535.8	hlg0437	651827.8	6058590.9	487.3
hlg0395	657427.6	6081762.5	536.9	hlg0438	651807.5	6058627.6	485.6
hlg0396	657391.1	6081783.3	537.9	hlg0439	651787.2	6058664.4	484.9
hlg0397	657354.6	6081804.1	539.4	hlg0440	651766.8	6058701.1	484.0
hlg0398	657318.2	6081824.8	541.0	hlg0441	651746.5	6058737.8	483.5
hlg0399	657281.7	6081845.6	543.5	hlg0442	651726.1	6058774.6	483.3
hlg0400	657245.3	6081866.3	546.7	hlg0443	651705.8	6058811.3	483.2
hlg0401	657208.9	6081887.1	548.3	hlg0444	651685.4	6058848.0	483.0
hlg0402	657172.4	6081907.8	546.5	hlg0445	651665.0	6058884.8	482.7
hlg0403	657135.9	6081928.6	545.6	hlg0446	651644.7	6058921.5	481.9
hlg0404	657099.5	6081949.4	546.7	hlg0447	651624.3	6058958.2	481.3
hlg0405	657063.0	6081970.1	548.6	hlg0448	651604.0	6058994.9	480.5
hlg0406	657026.6	6081990.9	551.0	hlg0449	651583.6	6059031.7	479.9
hlg0407	656990.1	6082011.7	552.2	hlg0450	651564.9	6059069.2	479.3
hlg0408	656953.6	6082032.4	552.5	hlg0451	651553.7	6059109.6	478.4
hlg0409	656917.1	6082053.2	552.1	hlg0452	651551.2	6059151.4	477.1
hlg0410	656880.6	6082074.0	552.4	hlg0453	651557.5	6059192.8	476.0
hlg0411	656844.2	6082094.8	553.7	hlg0454	651567.8	6059233.5	474.3
hlg0412	656807.7	6082115.6	555.3	hlg0455	651578.1	6059274.2	472.9
hlg0413	656771.3	6082136.3	558.4	hlg0456	651600.9	6059309.1	472.0
hlg0414	656734.9	6082157.0	560.9	hlg0457	651625.2	6059343.4	471.6
hlg0415	656698.4	6082177.8	563.2	hlg0458	651650.9	6059376.5	470.2
hlg0416	656662.0	6082198.5	565.0	hlg0459	651682.1	6059404.6	470.2
hlg0417	656625.5	6082219.3	567.3	hlg0460	651714.2	6059431.6	470.5
hlg0418	656589.1	6082240.0	569.6	hlg0461	651746.4	6059458.5	473.0
hlg0419	656552.6	6082260.8	570.3	hlg0462	651776.6	6059487.4	475.0
hlg0420	656516.2	6082281.6	572.7	hlg0463	651802.3	6059520.2	478.0
hlg0421	656479.8	6082302.3	575.8	hlg0464	651826.8	6059553.7	482.0
hlg0422	656443.4	6082323.0	578.2	hlg0465	651837.7	6059593.3	485.5
hlg0423	656406.9	6082343.8	576.9	hlg0466	651837.4	6059635.0	489.5
hlg0424	656370.4	6082364.6	576.2	hlg0467	651839.4	6059676.9	492.2

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0468	651841.4	6059718.8	493.2	hlg0511	651037.4	6061289.5	498.5
hlg0469	651843.4	6059760.7	494.9	hlg0512	651024.2	6061329.4	497.0
hlg0470	651845.4	6059802.6	496.4	hlg0513	651011.0	6061369.2	494.2
hlg0471	651847.3	6059844.6	495.8	hlg0514	650997.8	6061408.9	491.4
hlg0472	651849.3	6059886.5	495.0	hlg0515	650984.6	6061448.8	489.6
hlg0473	651851.3	6059928.5	493.7	hlg0516	650971.4	6061488.5	487.0
hlg0474	651834.2	6059965.2	495.0	hlg0517	650958.2	6061528.4	485.4
hlg0475	651811.0	6060000.1	496.9	hlg0518	650945.0	6061568.2	483.8
hlg0476	651787.9	6060035.1	498.2	hlg0519	650931.8	6061608.0	481.6
hlg0477	651764.7	6060070.2	498.4	hlg0520	650918.7	6061647.8	478.4
hlg0478	651741.5	6060105.2	498.4	hlg0521	650905.5	6061687.5	474.6
hlg0479	651718.3	6060140.2	497.5	hlg0522	650892.3	6061727.2	472.4
hlg0480	651695.1	6060175.2	497.0	hlg0523	650879.1	6061767.0	474.0
hlg0481	651671.9	6060210.2	496.7	hlg0524	650866.0	6061806.8	476.7
hlg0482	651648.8	6060245.2	496.7	hlg0525	650853.2	6061846.8	478.2
hlg0483	651625.6	6060280.2	496.1	hlg0526	650854.1	6061888.4	476.8
hlg0484	651602.4	6060315.3	495.6	hlg0527	650869.6	6061927.2	474.1
hlg0485	651579.2	6060350.3	495.0	hlg0528	650886.1	6061965.9	473.2
hlg0486	651556.0	6060385.3	493.6	hlg0529	650900.7	6062005.1	472.1
hlg0487	651532.9	6060420.3	492.4	hlg0530	650901.6	6062047.0	473.0
hlg0488	651509.7	6060455.3	491.4	hlg0531	650900.1	6062088.9	473.9
hlg0489	651486.5	6060490.3	490.4	hlg0532	650898.7	6062130.9	474.2
hlg0490	651463.3	6060525.3	490.5	hlg0533	650897.2	6062172.9	475.2
hlg0491	651440.1	6060560.3	489.6	hlg0534	650895.8	6062214.8	474.9
hlg0492	651417.0	6060595.3	488.3	hlg0535	650895.9	6062256.7	474.2
hlg0493	651393.8	6060630.3	486.9	hlg0536	650909.9	6062296.2	472.0
hlg0494	651370.6	6060665.3	487.2	hlg0537	650926.4	6062334.7	471.2
hlg0495	651347.4	6060700.3	487.3	hlg0538	650943.0	6062373.3	472.8
hlg0496	651324.3	6060735.3	489.0	hlg0539	650959.5	6062411.8	475.7
hlg0497	651301.1	6060770.2	491.9	hlg0540	650983.5	6062445.7	478.8
hlg0498	651278.0	6060805.2	494.4	hlg0541	651013.4	6062475.2	480.3
hlg0499	651254.8	6060840.2	496.4	hlg0542	651041.0	6062506.6	480.9
hlg0500	651231.7	6060875.2	497.5	hlg0543	651053.4	6062546.4	480.6
hlg0501	651208.5	6060910.2	497.6	hlg0544	651059.4	6062588.0	480.0
hlg0502	651185.3	6060945.2	497.7	hlg0545	651065.3	6062629.5	478.6
hlg0503	651162.1	6060980.2	498.5	hlg0546	651071.3	6062671.1	477.9
hlg0504	651139.0	6061015.2	500.3	hlg0547	651077.3	6062712.6	477.4
hlg0505	651116.9	6061050.8	503.3	hlg0548	651083.2	6062754.2	477.7
hlg0506	651103.4	6061090.5	504.3	hlg0549	651089.2	6062795.8	477.4
hlg0507	651090.1	6061130.3	503.9	hlg0550	651095.2	6062837.3	477.4
hlg0508	651076.9	6061170.2	503.0	hlg0551	651110.7	6062875.9	479.0
hlg0509	651063.8	6061209.9	499.6	hlg0552	651142.1	6062903.1	482.0
hlg0510	651050.6	6061249.7	497.2	hlg0553	651181.1	6062913.1	485.0

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0554	651221.3	6062914.8	489.0	hlg0597	652708.9	6061967.0	517.1
hlg0555	651263.2	6062916.7	493.1	hlg0598	652745.4	6061946.3	515.3
hlg0556	651305.1	6062918.5	495.0	hlg0599	652781.9	6061925.6	513.8
hlg0557	651347.0	6062919.2	495.2	hlg0600	652818.4	6061904.9	512.9
hlg0558	651386.0	6062905.0	497.9	hlg0601	652854.9	6061884.2	515.1
hlg0559	651416.8	6062876.6	498.7	hlg0602	652891.3	6061863.6	518.8
hlg0560	651446.2	6062846.6	497.8	hlg0603	652927.7	6061843.0	521.8
hlg0561	651475.6	6062816.7	499.0	hlg0604	652964.2	6061822.3	523.4
hlg0562	651505.0	6062786.7	500.6	hlg0605	653000.7	6061801.6	522.6
hlg0563	651534.4	6062756.8	501.4	hlg0606	653037.2	6061780.9	523.9
hlg0564	651563.8	6062726.8	502.5	hlg0607	653073.8	6061760.2	524.7
hlg0565	651593.2	6062696.8	503.6	hlg0608	653111.0	6061740.9	524.6
hlg0566	651622.5	6062666.9	505.9	hlg0609	653150.9	6061727.7	525.0
hlg0567	651651.9	6062637.0	509.1	hlg0610	653190.7	6061714.6	524.4
hlg0568	651681.2	6062607.1	512.1	hlg0611	653230.6	6061701.4	523.8
hlg0569	651710.5	6062577.2	515.1	hlg0612	653270.5	6061688.3	522.2
hlg0570	651739.9	6062547.3	517.7	hlg0613	653310.3	6061675.2	520.4
hlg0571	651769.3	6062517.4	519.5	hlg0614	653350.7	6061676.2	519.0
hlg0572	651798.7	6062487.4	518.8	hlg0615	653371.7	6061710.5	519.0
hlg0573	651832.9	6062463.4	518.8	hlg0616	653355.3	6061748.0	520.6
hlg0574	651869.4	6062442.7	519.5	hlg0617	653330.1	6061781.6	521.2
hlg0575	651906.0	6062422.0	519.6	hlg0618	653304.9	6061815.1	521.9
hlg0576	651942.5	6062401.3	520.0	hlg0619	653279.7	6061848.7	522.1
hlg0577	651979.0	6062380.6	520.5	hlg0620	653254.5	6061882.3	522.8
hlg0578	652015.5	6062359.9	519.0	hlg0621	653227.7	6061914.6	523.1
hlg0579	652052.0	6062339.3	518.1	hlg0622	653199.8	6061946.0	523.3
hlg0580	652088.5	6062318.6	519.5	hlg0623	653172.0	6061977.5	524.1
hlg0581	652125.1	6062297.9	520.8	hlg0624	653144.2	6062008.9	524.6
hlg0582	652161.6	6062277.2	521.6	hlg0625	653116.4	6062040.3	526.1
hlg0583	652198.1	6062256.5	519.7	hlg0626	653088.6	6062071.8	526.2
hlg0584	652234.6	6062235.8	518.6	hlg0627	653060.8	6062103.2	526.4
hlg0585	652271.1	6062215.1	517.4	hlg0628	653033.0	6062134.6	525.7
hlg0586	652307.6	6062194.4	519.2	hlg0629	653005.2	6062166.1	526.3
hlg0587	652344.0	6062173.8	523.0	hlg0630	652977.4	6062197.5	526.2
hlg0588	652380.4	6062153.1	526.6	hlg0631	652950.7	6062229.8	528.0
hlg0589	652416.9	6062132.5	529.1	hlg0632	652952.1	6062269.9	531.0
hlg0590	652453.3	6062111.8	527.3	hlg0633	652983.2	6062296.8	534.4
hlg0591	652489.8	6062091.2	524.3	hlg0634	653016.8	6062321.6	537.9
hlg0592	652526.3	6062070.5	522.6	hlg0635	653050.6	6062346.4	539.8
hlg0593	652562.8	6062049.8	521.4	hlg0636	653084.5	6062371.3	540.0
hlg0594	652599.3	6062029.1	520.1	hlg0637	653118.3	6062396.2	539.9
hlg0595	652635.8	6062008.4	519.4	hlg0638	653152.1	6062421.1	539.9
hlg0596	652672.4	6061987.7	519.0	hlg0639	653185.9	6062446.0	539.2

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg0640	653219.8	6062470.9	538.5	hlg1114	656849.4	6078180.1	469.0
hlg0641	653253.6	6062495.8	538.0	hlg1115	656838.4	6078220.6	469.3
hlg0642	653287.4	6062520.6	537.0	hlg1116	656827.5	6078261.2	470.0
hlg0643	653321.2	6062545.5	536.0	hlg1117	656816.5	6078301.7	470.0
hlg0644	653355.1	6062570.3	535.3	hlg1118	656805.5	6078342.2	470.2
hlg0645	653386.0	6062598.6	534.7	hlg1119	656794.5	6078382.8	471.0
hlg0646	653414.1	6062629.8	533.9	hlg1120	656783.6	6078423.3	471.0
hlg0647	653442.3	6062661.0	533.0	hlg1121	656772.6	6078463.8	471.0
hlg0648	653470.4	6062692.1	531.9	hlg1122	656761.6	6078504.4	471.3
hlg0649	653498.6	6062723.2	530.2	hlg1123	656750.6	6078544.9	471.8
hlg0650	653526.8	6062754.3	528.4	hlg1124	656739.6	6078585.4	472.0
hlg0651	653555.0	6062785.4	527.0	hlg1125	656728.7	6078626.0	472.0
hlg0652	653583.1	6062816.5	525.6	hlg1126	656717.7	6078666.5	472.0
hlg0653	653611.3	6062847.6	524.5	hlg1127	656706.7	6078707.1	472.0
hlg0654	653639.5	6062878.7	525.5	hlg1128	656695.7	6078747.6	471.9
hlg0655	653667.7	6062909.8	527.0	hlg1129	656684.7	6078788.1	471.3
hlg0656	653695.8	6062940.9	529.0	hlg1130	656673.8	6078828.7	471.5
hlg0657	653724.0	6062972.0	531.0	hlg1131	656663.8	6078869.5	471.2
hlg0658	653752.1	6063003.1	533.0	hlg1132	656661.4	6078911.3	471.9
hlg0659	653780.3	6063034.2	534.7	hlg1133	656667.8	6078952.7	472.0
hlg0660	653808.5	6063065.3	536.5	hlg1134	656682.6	6078991.9	472.0
hlg0661	653836.6	6063096.4	537.9	hlg1135	656705.3	6079027.2	472.5
hlg0662	653864.8	6063127.5	539.2	hlg1136	656734.9	6079056.9	473.0
hlg0663	653893.0	6063158.6	540.6	hlg1137	656769.1	6079081.1	474.0
hlg0664	653921.2	6063189.7	541.9	hlg1138	656803.9	6079104.7	474.8
hlg0665	653949.4	6063220.8	543.2	hlg1139	656838.6	6079128.3	475.4
hlg0666	653977.5	6063251.9	544.9	hlg1140	656873.4	6079151.9	476.1
hlg0667	654005.7	6063283.1	546.1	hlg1141	656908.1	6079175.4	477.0
hlg0668	654033.9	6063314.2	547.9	hlg1142	656942.8	6079199.0	478.0
hlg0669	654062.0	6063345.3	549.0	hlg1143	656977.6	6079222.6	478.0
hlg0670	654090.2	6063376.4	549.0	hlg1144	657012.3	6079246.2	478.0
hlg0671	654118.4	6063407.5	549.0	hlg1145	657047.1	6079269.8	478.0
hlg0672	654146.6	6063438.7	549.0	hlg1146	657081.8	6079293.4	478.3
hlg0673	654174.8	6063469.8	548.9	hlg1147	657116.5	6079317.0	479.0
hlg1105	656917.0	6077812.8	468.0	hlg1148	657151.3	6079340.6	479.1
hlg1106	656925.0	6077854.0	468.0	hlg1149	657186.0	6079364.2	480.0
hlg1107	656924.3	6077895.9	468.0	hlg1150	657220.8	6079387.7	480.0
hlg1108	656915.3	6077936.9	468.0	hlg1151	657255.5	6079411.4	480.0
hlg1109	656904.3	6077977.4	468.0	hlg1152	657287.7	6079438.3	480.2
hlg1110	656893.3	6078018.0	468.0	hlg1153	657313.5	6079471.3	481.0
hlg1111	656882.4	6078058.5	468.3	hlg1154	657331.8	6079509.0	481.1
hlg1112	656871.4	6078099.0	469.0	hlg1155	657342.0	6079549.6	482.0
hlg1113	656860.4	6078139.6	469.0	hlg1156	657343.4	6079591.5	482.4

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg1157	657336.0	6079632.8	483.0	hlg1200	656694.1	6081319.5	540.7
hlg1158	657321.7	6079672.3	483.2	hlg1201	656679.2	6081358.7	541.4
hlg1159	657306.8	6079711.5	484.0	hlg1202	656664.2	6081398.0	541.5
hlg1160	657291.8	6079750.7	484.6	hlg1203	656649.3	6081437.2	542.9
hlg1161	657276.9	6079790.0	485.1	hlg1204	656634.3	6081476.4	543.9
hlg1162	657261.9	6079829.2	486.0	hlg1205	656619.4	6081515.6	544.7
hlg1163	657247.0	6079868.4	486.8	hlg1206	656604.4	6081554.8	546.8
hlg1164	657232.0	6079907.7	487.4	hlg1207	656585.3	6081592.0	549.8
hlg1165	657217.1	6079946.9	488.2	hlg1208	656564.8	6081628.6	549.6
hlg1166	657202.2	6079986.1	489.9	hlg1209	656544.3	6081665.2	547.7
hlg1167	657187.2	6080025.4	491.6	hlg1210	656523.8	6081701.9	548.6
hlg1168	657172.3	6080064.6	493.4	hlg1211	656503.3	6081738.5	550.4
hlg1169	657157.3	6080103.8	494.9	hlg1212	656482.8	6081775.1	551.6
hlg1170	657142.4	6080143.0	495.8	hlg1213	656462.3	6081811.7	552.9
hlg1171	657127.4	6080182.2	497.3	hlg1214	656441.9	6081848.2	556.5
hlg1172	657112.5	6080221.5	498.3	hlg1215	656421.5	6081884.8	559.8
hlg1173	657097.5	6080260.7	499.9	hlg1216	656401.0	6081921.3	563.5
hlg1174	657082.6	6080299.9	501.5	hlg1217	656380.6	6081957.8	566.1
hlg1175	657067.7	6080339.1	502.6	hlg1218	656360.1	6081994.4	568.7
hlg1176	657052.7	6080378.4	504.1	hlg1219	656339.6	6082031.0	571.3
hlg1177	657037.8	6080417.6	505.7	hlg1220	656319.2	6082067.6	573.6
hlg1178	657022.8	6080456.8	506.9	hlg1221	656298.6	6082104.2	573.6
hlg1179	657007.9	6080496.0	508.3	hlg1222	656278.1	6082140.9	573.6
hlg1180	656992.9	6080535.2	510.5	hlg1223	656257.7	6082177.5	575.5
hlg1181	656978.0	6080574.4	513.0	hlg1224	656237.2	6082214.1	577.4
hlg1182	656963.1	6080613.6	515.5	hlg1225	656216.7	6082250.7	579.3
hlg1183	656948.2	6080652.7	517.9	hlg1226	656196.2	6082287.3	580.5
hlg1184	656933.2	6080691.9	520.3	hlg1227	656175.7	6082323.9	581.7
hlg1185	656918.3	6080731.1	522.7	hlg1228	656155.2	6082360.6	581.9
hlg1186	656903.4	6080770.3	525.1	hlg1229	656134.7	6082397.2	582.1
hlg1187	656888.4	6080809.5	527.5	hlg1230	656114.4	6082434.0	582.1
hlg1188	656873.5	6080848.7	528.9	hlg1231	656120.4	6082473.3	582.9
hlg1189	656858.6	6080887.9	531.0	hlg1232	656158.6	6082484.4	582.3
hlg1190	656843.6	6080927.1	532.6	hlg1233	656195.5	6082464.5	581.9
hlg1191	656828.7	6080966.3	533.5	hlg1234	656231.9	6082443.6	581.7
hlg1192	656813.7	6081005.6	534.2	hlg1235	652023.9	6058237.6	505.9
hlg1193	656798.8	6081044.8	535.1	hlg1236	652046.1	6058201.9	505.9
hlg1194	656783.8	6081084.0	536.5	hlg1237	652072.3	6058169.2	505.9
hlg1195	656768.9	6081123.3	537.4	hlg1238	652099.7	6058137.4	505.9
hlg1196	656753.9	6081162.5	537.9	hlg1239	652117.6	6058100.5	505.9
hlg1197	656739.0	6081201.8	538.7	hlg1240	652123.5	6058110.4	505.9
hlg1198	656724.0	6081241.0	539.4	hlg1241	652150.7	6058078.5	505.9
hlg1199	656709.1	6081280.2	540.2	hlg1242	652178.0	6058046.5	505.9

Table 16 Locations of the Hauling Sources (Cont'd)

Source ID	X (m)	Y (m)	Elevation (m)	Source ID	X (m)	Y (m)	Elevation (m)
hlg1243	652205.2	6058014.5	505.9	hlg1246	652286.9	6057918.6	505.9
hlg1244	652232.4	6057982.5	505.9	hlg1247	652314.2	6057886.6	505.9
hlg1245	652259.7	6057950.6	505.9	hlg1248	652329.7	6057849.9	505.9

4.1.4 DOZING

Dozing operations are planned on the waste rock dump using two Caterpillar D8T track dozers.

The emission rates for the dozing of the waste rock are computed according to the AP-42, section 13.2.4 *Aggregate Handling and Storage Piles*. A moisture content of 6.0% and a silt content of 9.5% are considered for the waste rock. Although dozing operations are usually intermittent, both dozing sources are considered as continuous throughout the day. In counterparts, a utilization factor of 50% is used.

These sources of particulate matter are modelled as volume sources and can be located on Map 8. The physical parameters for each of these sources are detailed in Table 17.

4.1.5 CRUSHING AND SCREENING PLANT

The crushing and screening plant consists of a jaw crusher unit (primary crusher) and a cone crusher unit (secondary crusher) in a closed loop with a double-deck screening unit. The plant is fed by front-end loaders, and two conveyors discharge sinter and lump products onto corresponding conical stockpiles. It is operated from April to November.

Emission rates for both crushing units are evaluated according to section 11.24 of the AP-42, *Metallic Minerals Processing*, while the emission rates for the screening processes are evaluated according to section 11.19.2 of the AP-42, *Crushed Stone Processing and Pulverize Mineral Processing*. In the absence of specific emission factors for $PM_{2.5}$, a scaling of 0.5 is used over the PM_{10} emission factors. *High moisture* and *controlled* emission rates are used based on the moisture content of 6.0% provided by Labec Century.

As stated in section 11.24 of the AP-42, the emission factors are for the process operations as a whole and usually requires several types of equipment. A single crushing operation likely includes a hopper or ore dump, screen(s), crusher, surge bin, apron feeder, and conveyor belt transfer points. The emission factors provided for primary and secondary crushing operations are for process units that are typical arrangements of this equipment, and a single source is hence used to represent each unit as a whole.

A total of three additional transfer points are also considered to represent the transfers from the jaw crusher to the belt feeder and from both screening discharge conveyors to the sinter and lump conical stockpiles. Related emission rates are evaluated, depending upon the type of material being handled, using the same procedure as presented in Section 4.1.2 for loading and dumping operations.

The physical parameters for each source are presented in Table 18, along with the design feed rates and estimated emission rates for TPM, PM_{10} and $PM_{2.5}$. Volume sources are used to model the particulate matter emissions from the plant, and the locations for these sources are shown on Map 8.

Table 17 Physical Parameters and Emission Rates for the Dozing Operations

Source ID	Description	Coordinates (UTM19 NAD83)		Elevation (m)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Emission Rates (g/s)		
		X (m)	Y (m)					TPM	PM_{10}	$PM_{2.5}$
tdoz1	Track dozer 1 on waste rock dump	657496.2	6087956.0	530	0.845	0.916	0.786	5.24E-01	1.12E-01	5.50E-02
tdoz2	Track dozer 2 on waste rock dump	657662.5	6088017.3	530	0.845	0.916	0.786	5.24E-01	1.12E-01	5.50E-02

Table 18 Physical Parameters and Emission Rates for the Beneficiation Plant Equipment

Source ID	Description	Coordinates (UTM19 NAD83)		Elevation (m)	Release Height (m)	Sigma Y (m)	Sigma Z (m)	Design Feed Rate (t/h)	Emission Factor Reference	Emission Rates (g/s)		
		X (m)	Y (m)							TPM	PM_{10}	$PM_{2.5}$
crush_j	Jaw crusher	656758.1	6084898.1	489.0	2.250	1.504	1.395	694.0	AP-42 11.24.1 - Primary Crushing (high moisture)	1.93E+00	7.71E-01	3.86E-01
crush_c	Cone crusher	656796.8	6084880.0	489.0	2.250	1.738	1.395	680.0	AP-42 11.24.1 - Secondary Crushing (high moisture)	5.67E+00	2.27E+00	1.13E+00
screen_c	Top deck (Coarse) Screening	656783.1	6084874.8	489.0	2.250	2.040	1.395	1263.0	AP-42 11.19.2 - Screening (controlled)	3.86E-01	1.30E-01	8.77E-03
screen_f	Bottom deck (Fine) Screening	656783.1	6084874.8	489.0	2.250	2.040	1.395	694.0	AP-42 11.19.2 - Fines Screening (controlled)	3.47E-01	2.12E-01	1.06E-01
convtr1	Transfer conveyor from jaw crusher to belt feeder	656767.1	6084889.7	489.0	3.500	0.605	0.233	694.0	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.
convtr2	Transfer screening to stockpile (lump)	656766.4	6084864.5	489.0	4.500	0.213	2.093	451.0	AP-42 13.2.4 - Aggregate Handling	VAR.	VAR.	VAR.
convtr3	Transfer screening to stockpile (sinter)	656781.4	6084853.1	489.0	3.500	0.213	1.628	243.0	AP-42 11.24.1 - Material handling and transfer (high moisture)	3.38E-01	1.35E-01	6.75E-02

Table 19 Vehicle Description and Estimated Emission Rates

Vehicle	Family	Power (hp)	Tier	Load Factor [1]	Emission Rates per Vehicle (g/s)				
					PM_{10} [2]	$PM_{2.5}$	CO	NO_x	SO_2
Caterpillar 775G	Off-Highway Truck	791	T2	0.59	2.41E-02	2.34E-02	1.67E-01	5.09E-01	6.38E-04
Caterpillar 14M	Grader	294	T3	0.59	1.31E-02	1.27E-02	6.34E-02	1.26E-01	2.37E-04
Caterpillar 345D-L	Excavator	380	T3	0.59	1.70E-02	1.64E-02	9.24E-02	1.63E-01	3.07E-04
Caterpillar MD5125	Drill Rig	325	T3	0.43	6.56E-03	6.36E-03	3.76E-02	9.78E-02	1.89E-04
Komatsu PC1250	Excavator	688	T3	0.59	3.07E-02	2.98E-02	2.64E-01	2.96E-01	5.55E-04
Caterpillar D8T	Crawler Dozer	310	T3	0.59	1.38E-02	1.34E-02	7.54E-02	1.33E-01	2.50E-04
Caterpillar 988H	Wheel Loader	540	T3	0.59	2.41E-02	2.34E-02	1.31E-01	2.32E-01	4.36E-04
Caterpillar 980H	Wheel Loader	353	T3	0.59	1.58E-02	1.53E-02	8.58E-02	1.52E-01	2.85E-04
Western Star 6900XD	Off-Highway Truck	500	T3	0.59	2.23E-02	2.16E-02	1.22E-01	2.15E-01	4.04E-04

[1] Appendix A, Median life, annual activity and load factor values for nonroad engine emissions modeling, US-EPA, Report No. NR-005c, April 2004

[2] All PM emissions are assumed to be smaller than 10 microns so that TPM = PM_{10}.

4.1.1 TAILPIPE EMISSIONS

MINING VEHICLES

The various diesel-powered vehicles used across the site are sources of exhaust gases. Emission factors in g/hp.h are computed for each equipment following the procedure given in *Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition »* (US-EPA, 2010). Note here that according to the reference, all particulate matters emitted in the exhaust gases are considered smaller than 10 microns. As a consequence, emission factors for TPM and PM_{10} are equal. Moreover, 97% of all particulate matter emitted in the exhaust gases is considered smaller than 2.5 microns.

Different parameters, including the fuel sulphur content and the engine's tier certifications, are taken into account. For the current study, the fuel sulphur content is set to 15 ppm, which is the maximum allowed by the Canadian *Sulphur in Diesel Fuel Regulations* for off-road vehicles. The vehicles will be supplied by contractors and consequently, specific ages are unknown. In order to consider the worst-case scenario, the increase of the emission factors due to the age of the engines has been maximized. Finally, the emission rate for each vehicle is obtained using the average load factor (US-EPA 2004) and the engine power given in their specification sheet. These powers vary from 294 to 791 hp. The various parameters considered, and the emission rates calculated are presented in Table 19, for each type of vehicle.

The various mining vehicles are divided in three categories: hauling, support and localized. This categorisation is given in Table 20 for each vehicle along with their location within the site and the number in the fleet. In order to take into account the buoyancy effect due to the high temperature of the exhaust gases, these tail pipe emissions are all modelled using point sources.

For the hauling vehicles, the speed of the vehicles is expected to influence significantly the emission plume behavior, as it was the case for the hauling emissions. In a matter of simplicity, the coordinates of the point sources used to represent these emissions are taken equal to the related hauling volume sources (Table 16). The turbulence effect is taken into account by using the initial dispersion parameters (sigma-y and sigma-z), which are also set equal to the related hauling volume source parameters (Table 15), and by setting the vertical flux factor to 0. The haul truck emissions are dispatched across the various segments as a function of the time spent on each one of them. This is estimated based upon the length of the segments, the topography (flat or hilly), the number of trips required to move the desired tonnage and additional activities taking place on the segment (loading and dumping). The estimated distribution of the time spent on each segment by the haul trucks is given in Table 21 along with the resulting emission rate and segment characteristics.

For the support vehicles (i.e. graders, water truck), the point sources defined for the haul trucks are used. The exhaust emissions are dispatched across the various segments based on the time spent by the haul trucks on each segment and the emissions are simply added to the hauling vehicles emissions. The estimated distribution of the time spent on each segment by the support vehicles is also given in Table 21.

For localized vehicles (drills, loaders, dozers), movements are not expected to influence significantly the emission plume. Tailpipes are vertical (or have a vertical component), with high exhaust temperature and velocity. Initial dispersion parameters are hence both set to zero and the vertical flux parameter is set to 1. The physical characteristics and emission rates for these vehicles are given Table 22. One must note here that some localized vehicles have been combined into a single source in order to save computing time.

Finally, the emission rates for the NO and NO_2 are determined considering an in-stack NO_2/NO_x ratio of 20%, according to Table A.1 of the Guidelines document. Moreover, downwash effect is not taken into account for any of these point sources.

The locations of the various point sources associated with the localized vehicles are illustrated on Maps 8 and 9 respectively for the mine and the rail yard areas. The location of the point sources associated with the hauling and support vehicles are not shown on the source maps but are the same as the hauling volume sources.

POWER PLANT

A 3000 kw generator is expected to provide on-site electrical power to the various buildings and equipment in the mine area, including the plant, workshop, camp and offices. The generator is hence used continuously from March 1st to December 8th.

The tailpipe emissions from the generator are modelled as a vertical point source, which is labeled as [genset1]. The location is shown on Map 8 while the physical characteristics of the point sources are provided with the emission rates for each pollutant in Table 23. Since the specific model of the generator that will be used is still unknown, the exhaust temperature, the exhaust flow rate, the fuel consumption and the emission rates have been taken from the technical specifications of the Caterpillar C175-20 generator set, which represent a valid choice for the power requirements. The fuel used to power the generator is assumed to be the same as for the vehicle fleet, and the sulphur content in the diesel fuel is also set to 15 ppm.

Note here that the emission rates for the NO and NO_2 are determined considering an in-stack NO_2/NO_x ratio of 20%, according to Table A.1 of the Guidelines document.

In addition to the power plant building itself, the main fuel depot and the fuel island located on the power plant pad are subject to creating downwash effects on the exhaust emissions. Since building height information is not available at this time, the power plant building height has been set to 2.555 m (height of the generator) while the main fuel depot and the fuel island building heights have been set to 7.5 m in order to maximize the downwash effect.

LOCOMOTIVES

The iron ore products are shipped by train of three locomotives and 240 gondola cars. The loading procedure spans over 18 hours, twice every four days. The locomotive exhaust emissions are also modelled as vertical point sources, labeled [loco1], [loco2] and [loco3], which the location is illustrated on Map 9.

The locomotive exhaust emission rates are estimated following the EPA document *Emission Factors for Locomotives* (US-EPA, 2009) for GE AC-4400 locomotives with *Tier 0* emission certification. This choice is believed to represent a likely scenario from the various locomotive types that are expected on-site. The locomotives are expected to be kept at notch 1, and their fuel consumptions are evaluated at 53.46 L/h based on the *Emissions Factors Dataset of 2007 Canadian Diesel Locomotive Fleet* document (EGGLETON, P.; DUNN, R. 2009). The sulphur content in the locomotive diesel fuel is set to 106 ppm, the 2011 Canadian average sulphur content in railway diesel fuel (RAC, 2011). The emission rates are regrouped in Table 24 along with the estimated physical characteristics of the point sources. Note here that the emission rates for the NO and NO_2 are determined considering an in-stack NO_2/NO_x ratio of 20%, according to Table A.1 of the Guidelines document.

Although train loading activities are expected to occur twice every four days, the related sources have been set active every day in the modelling. Consequently, this typical day when trains are loaded is considered as the worst-case scenario and tested on every day of the 3-year meteorological sample. Finally, the locomotives themselves are treated as buildings in order to compute downwash effects on the exhaust emissions.

Table 20 Fleet Description

Vehicle	Mecanical Availability (%)	Number of Vehicles		Category	Location
		Total in Fleet	Total Considered		
Caterpillar 775G	85	16	14	Hauling	Mine Roadways
Caterpillar 775G (water truck)	100	1	1	Support	All Roadways
Caterpillar 14M	100	2	2	Support	All Roadways
Caterpillar 345D-L	100	1	1	Support	All Roadways
Caterpillar MD5125	100	3	3	Local	Pit
Komatsu PC1250	100	4	4	Local	Pit
Caterpillar D8T	100	2	2	Local	Waste Rock Dump
Caterpillar 988H	100	9	9	Local	Plant (5), Rail Yard (4)
Caterpillar 980H	100	2	2	Local	Plant
Western Star 6900XD	100	8	8	Hauling	Plant to Rail Yard Roadway

Table 21 Physical Parameters and Exhaust Emission Rates Calculated by Segment for Hauling and Support Vehicles

Segment	Time Spent on Segment (%)			Release Height (m)	Exhaust Temperature (K)	Vertical Exhaust Velocity (m/s)	Exhaust Stack Diameter (m)	Emission Rates (Hauling + Support) (g/s)				
	Caterpilar 775G	Western Star 6900XD	Support Vehicles					PM_{10}	$PM_{2.5}$	CO	NO_x	SO_2
P02_P01	26.6	-	15.2	2.23	755.37	0.01	0.244	9.99E-02	9.69E-02	6.79E-01	2.04E+00	2.59E-03
P03_P02	5.1	-	2.9	2.23	755.37	0.01	0.244	1.91E-02	1.86E-02	1.30E-01	3.90E-01	4.96E-04
P04_P03	0.8	-	0.4	2.23	755.37	0.01	0.244	2.94E-03	2.85E-03	2.00E-02	5.99E-02	7.63E-05
P04_P05	0.4	-	0.2	2.23	755.37	0.01	0.244	1.42E-03	1.38E-03	9.69E-03	2.90E-02	3.69E-05
P06_P03	7.8	-	4.5	2.23	755.37	0.01	0.244	2.94E-02	2.86E-02	2.00E-01	6.00E-01	7.64E-04
P06_P07	47.5	-	27.3	2.23	755.37	0.01	0.244	1.79E-01	1.73E-01	1.22E+00	3.64E+00	4.64E-03
P06_P08	2.8	-	1.6	2.23	755.37	0.01	0.244	1.05E-02	1.02E-02	7.16E-02	2.14E-01	2.73E-04
P08_P09	0.7	-	0.4	2.23	755.37	0.01	0.244	2.79E-03	2.70E-03	1.90E-02	5.68E-02	7.23E-05
P09_P13	0.5	-	0.3	2.23	755.37	0.01	0.244	2.04E-03	1.98E-03	1.39E-02	4.16E-02	5.29E-05
P13_P14	0.9	-	0.5	2.23	755.37	0.01	0.244	3.47E-03	3.37E-03	2.36E-02	7.07E-02	9.00E-05
P14_P18	4.2	-	2.4	2.23	755.37	0.01	0.244	1.57E-02	1.52E-02	1.07E-01	3.19E-01	4.06E-04
P18_P19	1.0	-	0.6	2.23	755.37	0.01	0.244	3.90E-03	3.79E-03	2.66E-02	7.96E-02	1.01E-04
P19_P20	1.6	-	0.9	2.23	755.37	0.01	0.244	6.08E-03	5.90E-03	4.13E-02	1.24E-01	1.58E-04
P29_P30	-	3.0	1.3	3.02	803.15	81.83	0.112	6.24E-03	6.05E-03	3.43E-02	6.36E-02	1.15E-04
P31_P29	-	0.1	0.02	3.02	803.15	81.83	0.112	1.16E-04	1.13E-04	6.38E-04	1.18E-03	2.15E-06
P31_P34	-	0.1	0.04	3.02	803.15	81.83	0.112	2.04E-04	1.98E-04	1.12E-03	2.08E-03	3.78E-06
P33_P32	-	5.6	2.4	3.02	803.15	81.83	0.112	1.17E-02	1.13E-02	6.42E-02	1.19E-01	2.16E-04
P34_P33	-	0.3	0.1	3.02	803.15	81.83	0.112	6.48E-04	6.29E-04	3.56E-03	6.61E-03	1.20E-05
P34_P35	-	18.0	7.7	3.02	803.15	81.83	0.112	3.73E-02	3.62E-02	2.05E-01	3.80E-01	6.91E-04
P36_P35	-	63.9	27.2	3.02	803.15	81.83	0.112	1.32E-01	1.28E-01	7.27E-01	1.35E+00	2.45E-03
P36_P38	-	0.3	0.1	3.02	803.15	81.83	0.112	6.25E-04	6.06E-04	3.43E-03	6.37E-03	1.16E-05
P38_P37	-	5.5	2.3	3.02	803.15	81.83	0.112	1.14E-02	1.10E-02	6.23E-02	1.16E-01	2.10E-04
P38_P39	-	3.2	1.3	3.02	803.15	81.83	0.112	6.54E-03	6.35E-03	3.59E-02	6.67E-02	1.21E-04
Total	**100.0**	**100.0**	**100.0**	**-**	**-**	**-**	**-**	**5.83E-01**	**5.66E-01**	**3.70E+00**	**9.78E+00**	**1.36E-02**

Table 22 Physical Parameters and Exhaust Emission Rates Calculated for Localized Vehicles

Source ID	Description	Coordinates (UTM19 NAD83)		Elevation (m)	Release Height (m)	Exhaust Temp. (K)	Vertical Exhaust Velocity (m/s)	Stack Diameter per Vehicle (m)	Equivalent Stack Diameter (m)	Emission Rates (g/s)				
		X (m)	Y (m)							PM_{10}	$PM_{2.5}$	CO	NO_x	SO_2
edrill01	Caterpillar MD5125 (3)	658070.5	6086524.1	492.5	2.80	765.37	66.0	0.138	0.238	1.97E-02	1.91E-02	1.13E-01	2.93E-01	5.68E-04
eexcv01	Komatsu PC1250 (2)	658071.7	6086455.3	486.5	5.18	738.71	47.7	0.215	0.304	6.14E-02	5.96E-02	5.27E-01	5.91E-01	1.11E-03
eexcv02	Komatsu PC1250 (2)	658087.9	6086500.3	486.5	5.18	738.71	47.7	0.215	0.304	6.14E-02	5.96E-02	5.27E-01	5.91E-01	1.11E-03
etdoz01	Caterpillar D8T (1)	657496.2	6087956.0	530.0	3.45	678.71	45.9	0.146	0.146	1.38E-02	1.34E-02	7.54E-02	1.33E-01	2.50E-04
etdoz02	Caterpillar D8T (1)	657662.5	6088017.3	530.0	3.45	678.71	45.9	0.146	0.146	1.38E-02	1.34E-02	7.54E-02	1.33E-01	2.50E-04
efelp01	Caterpillar 988H (3-plant)	656746.0	6084893.7	489.0	4.09	785.37	20.4	0.254	0.440	7.23E-02	7.01E-02	3.94E-01	6.96E-01	1.31E-03
efelp02	Caterpillar 988H (2-plant)	656774.4	6084698.9	489.0	4.09	785.37	20.4	0.254	0.359	4.82E-02	4.68E-02	2.63E-01	4.64E-01	8.72E-04
efelp03	Caterpillar 980H (2-plant)	656928.5	6084864.3	489.0	3.72	678.71	28.5	0.185	0.261	3.15E-02	3.06E-02	1.72E-01	3.03E-01	5.70E-04
efely01	Caterpillar 988H (2-railyard)	652213.9	6057903.8	505.9	4.09	785.37	20.4	0.254	0.359	4.82E-02	4.68E-02	2.63E-01	4.64E-01	8.72E-04
efely02	Caterpillar 988H (2-railyard)	652284.0	6057822.0	505.9	4.09	785.37	20.4	0.254	0.359	4.82E-02	4.68E-02	2.63E-01	4.64E-01	8.72E-04

Table 23 Physical Parameters and Emission Rates for the Power Plant

Source ID	Description	Coordinates (UTM19 NAD83)		Release Height (m)	Ground Elevation (m)	Exhaust Diameter (m)	Exhaust Velocity (m/s)	Exhaust Temp. (K)	Emission Rates (g/s)					
		X (m)	Y (m)						TPM	PM_{10}	$PM_{2.5}$	CO	NO_x	SO_2
genset1	CAT C175-20 Diesel Genset	657455.1	6084240.1	2.56	489.00	0.45	32.8	732.85	7.26E-02	7.26E-02	7.04E-02	8.23E-01	8.04E+00	5.72E-03

Table 24 Physical Parameters and Emission Rates for the Locomotives

Source ID	Description	Coordinates (UTM19 NAD83)		Release Height (m)	Ground Elevation (m)	Exhaust Diameter (m)	Exhaust Velocity (m/s)	Exhaust Temp. (K)	Emission Rates (g/s)					
		X (m)	Y (m)						TPM	PM_{10}	$PM_{2.5}$	CO	NO_x	SO_2
loco1	GE AC4400 Locomotive (notch 1)	652048.4	6057895.5	4.72	503.19	0.56	4.8	385.00	2.61E-02	2.61E-02	2.53E-02	1.04E-01	7.02E-01	2.62E-03
loco2	GE AC4400 Locomotive (notch 1)	652043.0	6057873.8	4.72	503.19	0.56	4.8	385.00	2.61E-02	2.61E-02	2.53E-02	1.04E-01	7.02E-01	2.62E-03
loco3	GE AC4400 Locomotive (notch 1)	651868.1	6058282.4	4.72	503.19	0.56	4.8	385.00	2.61E-02	2.61E-02	2.53E-02	1.04E-01	7.02E-01	2.62E-03

4.1.2 WIND EROSION

The wind erosion over the various stockpiles is modelled using area sources. The physical characteristics of the stockpiles such as the location (coordinates and elevation), and the dimensions have been estimated according to the technical information provided by Labec. The physical characteristics of the area sources are regrouped in Table 25.

The emission rates for each area source are evaluated on an hourly basis, using the wind speed extracted from the CALMET at the source locations. Apart from the waste rock dump, each stockpile is considered as "active", which is to say that the surface of the stockpiles are continuously refreshed by the operations. The emission rates were then evaluated on an hourly basis using the equation given by the NPRI for pits and quarries[6]. A constant emission rate is then obtained only for wind speeds greater than 5.36 m/s, while no emission is obtained otherwise.

The waste rock dump, on the other hand, is much larger and the activities on it are expected to occur successively on subsections of it. With that in mind, the analytical method presented in the AP-42, section 13.2.5, was followed to estimate the hourly emission rates. The surface has been divided into hourly subsections, and the erosion potential was restored successively, hour by hour, for each one of these subsections. The erosion history for each subsection was also preserved and considered by the algorithm. The model uses the wind fastest mile to compute the friction velocity on the stockpile surface. This friction velocity is then compared to a threshold friction velocity to evaluate if emissions occur. In fact, the probability of observing emissions and the amplitude of these emissions will be greater for lower threshold friction velocity. This threshold depends upon the surface condition and the particle size distribution of the material. Based on the AP-42 table 13.2.5-2, the threshold friction velocity for the waste rock dump is evaluated to 1.33 m/s. The fastest mile for each hour is estimated to be 1.25 times the hourly wind speed[7].

Before the beginning or after the end of the various operations on the stockpiles, it is assumed that snow rapidly covers the totality of the stockpiles, which nullify the wind erosion emissions. Each area source is then scheduled accordingly with the operations on the stockpile, but no consideration or mitigation resulting from precipitations or snow cover during the operating period is taken into account. The hourly emission rates are computed for each stockpile, and the maximums obtained are given for each year in Table 26, as a reference.

4.1.3 OTHER SOURCES

The emission sources occasionally operated or presenting a marginal contribution to the total emissions associated with the operations of the mine, and the beneficiation process have not been taken into account in the modelling. These sources include various small diesel pumps and minor vehicles used occasionally or presenting low emissions.

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6 National Pollutant Release Inventory (NPRI), Pits and Quarries Guidance, section *8.9 Emissions Due to Wind Erosion of Stockpile Surfaces*.

7 Based on a conservative factor of 1.5 for average to gust wind speed (National Building Code of Canada gives √2) and on a factor of 0.82 for gust to fastest mile (ANSI/ASCE 7-95); 1.25 ~ 1.5 x 0.82.

4.2 BUILDING EFFECTS ADJUSTMENT

Considering that some punctual emission sources (stacks) are located within the vicinity of buildings or large stationary structures subject to alter the wind flow, the downwash effect is taken into account. The procedure followed is given in section 2.5 of the Guidelines document. The Building Profile Input Program (BPIP) is run a first time treating adjacent buildings as one building, using the coordinates of the perimeter. Secondly, BPIP is run with each unique building section defined as a separate building with its correct building dimensions and height. Finally, BUILDWID, BUILDLEN, XBADJ and YBADJ values are merged from step one with the BUILDHGT values from step two to generate the appropriate downwash parameterization. The result is then reported into the model in order for CALPUFF to apply the resulting building effect adjustment in the calculations.

Downwash effects are computed for the power plant and the locomotive exhausts. The location of the buildings on the power plant pad has been provided by Labec Century while elevations were estimated based on the topography. The heights of the various buildings on the pad are unknown at this time and were hence set to maximize the downwash effect. Finally, one must note that the locomotives are also considered in the downwash algorithm. Elevations were estimated based on the topography while heights were set according to the technical specifications of the locomotives.

4.3 RECEPTOR GRID AND PUNCTUAL RECEPTORS

Corresponding receptor grids have been generated for both domains and cover the whole areas up to a distance of one kilometre from the limits. Indeed, the modelling domains is set wider than the receptor grids to allow for the recirculation of air parcels that could be displaced momentarily beyond the peripheral receptors.

According to the Newfoundland and Labrador Guidelines document, the maximum spacing between the receptors is set in both domains to:

- 50 metres from the centre of the operation out to 500 metres;
- 100 metres from 500 metres out to 1000 metres;
- 200 metres from 1000 metres out to 2000 metres;
- 500 metres beyond 2000 metres.

Considering that the operations are scattered across the domains, five zones within the mine domain and two zones within the rail yard domain have been considered in agreement with Department recommendations[8]. The resulting receptor grids for the mine and rail yard areas consist of 3984 and 1587 computation nodes respectively and are presented on Maps 2 and 3.

Additional punctual receptors are used to take into account several cabins located within the area. A total of 56 cabins are accounted for in the mine area while 14 are considered within the rail yard domain. The locations of these punctual receptors are also shown on Maps 2 and 3 while their specific coordinates are given in Table 27.

Finally, following early discussions with the DOEC, no additional receptors have been positioned along any administrative boundary for this specific modelling.

[8] Email from M. Barrie Lawrence on May 17th, 2013.

Table 25 Physical Characteristics of the Area Sources

Source ID	Description	Surface (m^2)	Elevation (m)	Average Height (m)	Release Height (m)	Sigma Z (m)	Method	Friction Velocity Threshold (m/s)	Refreshing Period for the Whole Surface (h)	Silt Content (%)
sp_wst	Waste rock dump	555 013	530.0	1.00	0.50	0.233	AP42 13.2.5	1.33	2 472	*NA*
sp_ob	Overburden	67 393	533.0	15.00	7.50	3.488	Hourly NPRI	*NA*	*NA*	7.5
sp_blend	Blending pad	43 007	489.0	2.75	1.38	0.640	Hourly NPRI	*NA*	*NA*	9.5
sp_lumpp	Plant output (Lump)	694	489.0	8.90	4.45	2.070	Hourly NPRI	*NA*	*NA*	9.5
sp_lumpb	Hauling buffer (Lump)	9 621	489.0	2.25	1.13	0.523	Hourly NPRI	*NA*	*NA*	9.5
sp_lumpr	Rail yard product (Lump)	6 596	505.9	2.25	1.13	0.523	Hourly NPRI	*NA*	*NA*	9.5
sp_sintp	Plant output (Sinter)	437	489.0	6.80	3.40	1.581	Hourly NPRI	*NA*	*NA*	15.0
sp_sintb	Hauling buffer (Sinter)	9 614	489.0	2.25	1.13	0.523	Hourly NPRI	*NA*	*NA*	15.0
sp_sintr	Rail yard product (Sinter)	6 587	505.9	2.25	1.13	0.523	Hourly NPRI	*NA*	*NA*	15.0

NA: Not applicable

Table 26 Maximum Emission Rates Calculated for the Area Sources

Source ID	Description	Emission Rates (g/s.m²)			Description
		TPM	PM_{10}	$PM_{2.5}$	
sp_wst	Waste rock dump	2.52E-04	1.26E-04	1.89E-05	Maximum value over the 3 years
sp_ob	Overburden	1.14E-04	5.70E-05	2.28E-05	Constant value for wind speed > 5.36 m/s
sp_blend	Blending pad	1.45E-04	7.23E-05	2.89E-05	Constant value for wind speed > 5.36 m/s
sp_lumpp	Plant output (Lump)	1.45E-04	7.23E-05	2.89E-05	Constant value for wind speed > 5.36 m/s
sp_lumpb	Hauling buffer (Lump)	1.45E-04	7.23E-05	2.89E-05	Constant value for wind speed > 5.36 m/s
sp_lumpr	Rail yard product (Lump)	1.45E-04	7.23E-05	2.89E-05	Constant value for wind speed > 5.36 m/s
sp_sintp	Plant output (Sinter)	2.28E-04	1.14E-04	4.56E-05	Constant value for wind speed > 5.36 m/s
sp_sintb	Hauling buffer (Sinter)	2.28E-04	1.14E-04	4.56E-05	Constant value for wind speed > 5.36 m/s
sp_sintr	Rail yard product (Sinter)	2.28E-04	1.14E-04	4.56E-05	Constant value for wind speed > 5.36 m/s

Table 27 Discrete Receptors Considered in the Modelling

ID	X (km)	Y (km)	Z (m)	Domain
CABIN_01	651.875	6087.999	469.3	Mine
CABIN_02	651.890	6087.983	469.5	Mine
CABIN_03	652.001	6087.882	471.5	Mine
CABIN_04	652.154	6087.803	468.2	Mine
CABIN_05	652.235	6087.710	468.0	Mine
CABIN_06	652.291	6087.660	468.0	Mine
CABIN_07	652.479	6087.518	468.0	Mine
CABIN_08	652.519	6087.450	468.3	Mine
CABIN_09	652.573	6087.381	468.0	Mine
CABIN_10	652.630	6087.358	468.0	Mine
CABIN_11	652.735	6087.279	469.2	Mine
CABIN_12	652.823	6087.281	468.0	Mine
CABIN_13	652.833	6087.143	472.4	Mine
CABIN_14	652.834	6087.241	468.0	Mine
CABIN_15	652.850	6087.199	468.0	Mine
CABIN_16	652.894	6087.144	468.0	Mine
CABIN_17	652.916	6087.060	468.1	Mine
CABIN_18	652.933	6087.065	468.0	Mine
CABIN_19	652.941	6087.034	468.1	Mine
CABIN_20	653.032	6085.621	514.0	Mine
CABIN_21	653.056	6086.890	468.0	Mine
CABIN_22	653.134	6086.705	468.0	Mine
CABIN_23	653.146	6086.675	468.0	Mine
CABIN_24	653.162	6086.632	468.0	Mine
CABIN_25	653.177	6085.988	485.6	Mine
CABIN_26	653.225	6086.491	468.0	Mine
CABIN_27	653.307	6086.343	468.0	Mine
CABIN_28	653.353	6086.238	468.0	Mine
CABIN_29	653.366	6086.207	468.0	Mine
CABIN_30	653.395	6086.134	468.0	Mine
CABIN_31	653.420	6086.071	468.0	Mine
CABIN_32	653.438	6085.998	468.3	Mine
CABIN_33	653.444	6085.973	468.8	Mine
CABIN_34	653.448	6085.951	469.4	Mine
CABIN_35	653.451	6085.921	469.9	Mine

ID	X (km)	Y (km)	Z (m)	Domain
CABIN_36	653.469	6085.904	468.6	Mine
CABIN_37	653.475	6085.880	468.3	Mine
CABIN_38	653.832	6085.702	468.0	Mine
CABIN_39	653.881	6085.850	468.4	Mine
CABIN_40	653.896	6085.855	468.2	Mine
CABIN_41	653.896	6085.839	468.9	Mine
CABIN_42	654.000	6085.854	468.5	Mine
CABIN_43	654.046	6087.626	468.0	Mine
CABIN_44	654.084	6085.794	469.2	Mine
CABIN_45	654.121	6085.745	470.3	Mine
CABIN_46	654.173	6085.688	471.1	Mine
CABIN_47	654.248	6085.626	468.6	Mine
CABIN_48	654.366	6087.039	468.1	Mine
CABIN_49	654.387	6085.520	468.9	Mine
CABIN_50	654.388	6085.460	471.6	Mine
CABIN_51	654.401	6085.428	471.5	Mine
CABIN_52	654.435	6085.396	469.3	Mine
CABIN_53	654.457	6085.355	469.1	Mine
CABIN_54	654.501	6085.281	469.8	Mine
CABIN_55	654.660	6085.161	468.7	Mine
CABIN_56	654.720	6085.094	468.3	Mine
CABIN_57	651.816	6057.077	471.7	Rail yard
CABIN_58	651.846	6057.131	476.8	Rail yard
CABIN_59	651.848	6057.175	477.1	Rail yard
CABIN_60	652.213	6056.643	484.8	Rail yard
CABIN_61	652.443	6056.479	462.6	Rail yard
CABIN_62	652.477	6056.522	464.6	Rail yard
CABIN_63	652.881	6061.315	481.8	Rail yard
CABIN_64	652.908	6061.333	483.3	Rail yard
CABIN_65	652.916	6061.192	475.2	Rail yard
CABIN_66	653.160	6060.946	491.1	Rail yard
CABIN_67	653.161	6060.905	490.6	Rail yard
CABIN_68	653.193	6060.837	486.9	Rail yard
CABIN_69	653.508	6060.569	472.7	Rail yard
CABIN_70	653.570	6060.469	473.8	Rail yard

4.4 CALPUFF PARAMETERIZATION

CALPUFF was run in two parts. First, all fugitive sources of particulate matter (drilling, blasting, handling, hauling, dozing, crushing, screening and wind erosion) were run. Modelled species for this first run are P1 (particulate matter smaller than 2.5 microns), P2 (particulate matter between 2.5 and 10 microns) and P3 (particulate matter larger than 10 microns). Emitted species are P1, P2 and P3 and each is dry deposited as computed particles. Particulate sizing parameters are taken from section 2.6 of the Guidelines document with the density of 5 g/cm^3 for the modelling of heavy particulate such as iron.

For the second run, sources of combustion gases were considered (blasting gases and tailpipe emissions). Modelled species for this second run are SO_2, SO_4, NO, NO_2, HNO_3, NO_3, DIOX while emitted species are SO_2, NO, NO_2 and DIOX. SO_2, NO, NO_2 and HNO_3 are dry deposited as computed gas while SO_4, NO_3 are dry deposited as computed particles. DIOX is a dummy species used to model non-chemically transformed and non-deposited pollutants. According to the US EPA guidelines (US EPA 2009, US EPA 2010), tailpipe PM emissions are assumed to be smaller than 10 microns (PM_{10}) and 97% of the PM is assumed to be smaller than 2.5 microns ($PM_{2.5}$). Considering the small sizing of these emissions and the high exhaust temperature, dry deposition is expected to be low within the modelling domain for the tailpipe PM emissions. Taking into account the large number of tailpipe sources in the current modelling, and in order to reduce computing time, dry deposition was neglected on these PM emissions. Therefore, the DIOX species was used to model these emissions. Carbon monoxide (CO) concentrations were also computed from the DIOX specie, and the scaling was accomplished using the CALSUM post-processing application.

Final $PM_{2.5}$ concentrations were obtained by adding the P1 concentrations, modelled from the fugitive sources, to 97% of the TPM concentrations modelled from the tailpipe emissions and the SO_4 and NO_3 concentrations. The PM_{10} concentrations were obtained by adding the P1 and P2 concentrations modelled from the fugitive sources, to 100% of the TPM concentrations modelled from the tailpipe emissions and the SO_4 and NO_3 concentrations. Finally, the TPM concentrations were obtained by adding the P3 concentrations modelled from the fugitive sources to the PM_{10} concentrations.

The parameterization of the CALPUFF model takes into account all the requirements provided in table 4.2.1 of the Guideline for Plume Dispersion Modelling except for the wet deposition due to a lack of precipitation data and the dry deposition of the PM tailpipe emissions. Chemical transformation of SO_2 and NO has been modelled using the updated RIVAD scheme with ISORROPIA equilibrium (*MCHEM = 6*). Monthly O_3, NH_3 and H_2O_2 background concentrations have been taken from the table 4.2.2 of the Guidelines document. The remaining CALPUFF parameters have been set to their default values.

Table 28 and Table 29 regroup, for both runs, all parameters without predefined default values or which are not set to their default values. The different applications used to perform the dispersion modelling and compile the results are CALPUFF v6.42, CALSUM v.1.5.0, APPEND v2.36 and CALPOST v6.292.

Table 28 CALPUFF Parameters Used in the Modelling (PM Fugitive Sources Modelling)

Parameter	Parameter Interpretation	Selected Value	Value Interpretation
NSPEC	Number of species modelled	3	CSPEC = P1, P2 and P3
MBDW	Method used to simulate building downwash	2	PRIME method
MSHEAR	Vertical wind shear modeled above stack top	0	no
MSPLIT	Puff splitting allowed	1	yes
MCHEM	Chemical mechanism	0	chemical transformation not modeled
MAQCHEM	Aqueous phase transformation	1	transformation rates and wet scavenging coefficients adjusted for in-cloud aqueous phase reactions
MLWC	Liquid water content	0	water content estimated from cloud cover and presence of precipitation
MWET	Wet removal modeled	0	no
MDRY	Dry deposition modeled	1	yes
MDISP	Method used to compute dispersion coefficients	2	Dispersion coefficients from internally calculated sigma v, sigma w using micrometeorological variables (u*, w*, L, etc.)
MPDF	PDF for dispersion under convective conditions	1	yes
MREG	Test options specified to see if they conform to regulatory values	0	no checks are made
NINT	Number of particle-size intervals used to evaluate effective particle deposition velocity	5	-
MOZ	Ozone data input option	0	use a monthly background ozone value
MNH3	Ammonia data input option	0	use monthly background ammonia values (BCKNH3) - no vertical variation
MAVGNH3	Ammonia vertical averaging option	1	average NH3 values over vertical extent of puff
MH2O2	H2O2 data input option	0	use a monthly background H2O2 value

Table 29 CALPUFF Parameters Used in the Modelling (Combustion Gases Modelling)

Parameter	Parameter Interpretation	Selected Value	Value Interpretation
NSPEC	Number of species modelled	7	CSPEC = SO2, SO4, NO, NO2, HNO3, NO3, DIOX[9]
MBDW	Method used to simulate building downwash	2	PRIME method
MSHEAR	Vertical wind shear modeled above stack top	0	no
MSPLIT	Puff splitting allowed	1	yes
MCHEM	Chemical mechanism	6	updated RIVAD scheme with ISORROPIA equilibrium
MAQCHEM	Aqueous phase transformation	1	transformation rates and wet scavenging coefficients adjusted for in-cloud aqueous phase reactions
MLWC	Liquid water content	0	water content estimated from cloud cover and presence of precipitation
MWET	Wet removal modeled	0	no
MDRY	Dry deposition modeled	1	yes
MDISP	Method used to compute dispersion coefficients	2	Dispersion coefficients from internally calculated sigma v, sigma w using micrometeorological variables (u*, w*, L, etc.)
MPDF	PDF for dispersion under convective conditions	1	yes
MREG	Test options specified to see if they conform to regulatory values	0	no checks are made
NINT	Number of particle-size intervals used to evaluate effective particle deposition velocity	5	-
MOZ	Ozone data input option	0	use a monthly background ozone value
MNH3	Ammonia data input option	0	use monthly background ammonia values (BCKNH3) - no vertical variation
MAVGNH3	Ammonia vertical averaging option	1	average NH3 values over vertical extent of puff
MH2O2	H2O2 data input option	0	use a monthly background H2O2 value

[9] Non-chemically transformed and non-deposited dummy species used to model combustion gases CO and particulate matter emissions.

5 AIR QUALITY STANDARDS AND BACKGROUND LEVELS

5.1 AIR QUALITY STANDARDS

The air quality standards retained for the evaluation of the impacts of the mining project on the air quality are taken from the *Air Pollution Control Regulations, 2004* under the Environmental Protection Act (O.C. 2004-232) of Newfoundland and Labrador Regulation 39/04. These standards are presented in Table 30 and define levels that the Minister deems to be acceptable for the protection of the environment, including human life, wildlife and vegetation.

In that context, compliance with the standards assures safety for human health and the environment. Consequently, effects of particulate matter and gaseous compound emissions can be considered as negligible when the standards are respected.

5.2 BACKGROUND LEVELS

In order to verify compliance with air quality standards, the background concentration for each pollutant must be added to the maximum concentrations calculated in the modelling. The total anticipated concentrations may then be compared with the air quality standards.

There are three recent background dust-level data collections available in the area. First, the baseline data on the ambient air quality were assessed at the Howells River site prior to the implementation of the Elross Lake Area Iron Ore Mine project in 2008, to which is added an ambient air quality monitoring program conducted by Labrador Iron Mines (LIM) in 2008 at Silver Yards near the James North mine, and finally another LIM project at the Houston deposits in 2009. Given the short distance between these sites and the Joyce Lake DSO Project (less than 40 km), the similarity of their characteristics and the low level of human activity, the measurements provided by the other projects are considered to be representative of the Joyce Lake DSO Project area.

For TPM, the average of the daily maximum concentrations obtained from the three samplings (see Table 31) is about 35% of the standard (42µg/m^3). Available average TPM concentrations also suggest that 35% of the annual standard would be conservative. No data were available for PM_{10} while the sampling data available for $PM_{2.5}$ shows a comparable proportion with the standard compared to the TPM data. Background concentrations were then all set to 35% of the respective standards for TPM, PM_{10} and $PM_{2.5}$. Background concentrations for arsenic (As), cadmium (Cd), chromium (Cr), lead (Pb), nickel (Ni), selenium (Se), uranium (U) and zinc (Zn) were taken from the first two sampling datasets. Background data for copper (Cu) was not available but, as it will be shown, very small concentrations are modelled and even the addition of a large background concentration is not expected to cause a problem.

Finally, following discussions with the DOEC[10], background concentrations for the combustion gases (CO, NO_x, SO_2) was assumed to be zero. The background concentrations used in the modelling are regrouped in Table 30, along with related standards.

[10] Conference call (January 17, 2013) attended by: Barrie Lawrence, Dexter Pittman (Department); Pascal Rhéaume, Annie Berube (WSP); Mike Murphy and John Walker of (Stantec).

Table 30 Standards and Background Concentrations

Substance	Acronym	Period	Standard [1] (µg/m³)	Background Concentration (µg/m³)
Total Particulate Matter	TPM	1 hour	-	*NA*
		24 hour	120	42.0
		1 year	60	21.0
Particulate Matter (< 10 microns)	PM_{10}	1 hour	-	*NA*
		24 hour	50	17.5
Particulate Matter (< 2.5 microns)	$PM_{2.5}$	1 hour	-	*NA*
		24 hour	25	8.75
		1 year	-	*NA*
Nitrogen Dioxide	NO_2	1 hour	400	0 [2]
		24 hour	200	0 [2]
		1 year	100	0 [2]
Sulphur Dioxide	SO_2	1 hour	900	0 [2]
		3 hour	600	0 [2]
		24 hour	300	0 [2]
		1 year	60	0 [2]
Carbon Monoxide	CO	1 hour	35000	0 [2]
		8 hour	15000	0 [2]
Arsenic	As	24 hour	0.3	0.02
		1 year	-	0.02
Cadmium	Cd	24 hour	2	0.00014
		1 year	-	0.000082
Chromium	Cr	24 hour	-	0.0053
		1 year	-	0.0027
Copper	Cu	24 hour	50	*NA*
		1 year	-	*NA*
Lead	Pb	24 hour	2	0.0034
		1 year	-	0.0017
Nickel	Ni	24 hour	2	0.32
		1 year	-	0.035
Selenium	Se	24 hour	-	0.03
		1 year	-	0.03
Uranium	U	24 hour	-	0.53
		1 year	-	0.17
Zinc	Zn	24 hour	120	0.057
		1 year	-	0.02

[1] Newfoundland and Labrador Regulation 39/04, Air Pollution Control Regulations, 2004

[2] Following discussions with the Department of Environment & Conservation of the Government of Newfoundland and Labrador, background concentrations for the combustion gases (CO, NO_x, SO_2) was assumed to be zero.

Table 31 Data Collections Available for Background Dust Level in the Joyce Lake DSO Project Area

Pollutant	Standards (µg/m³)		Measurement Site	Measurements (µg/m³)		% of Standards	
	24 Hour	Annual		Daily Max.	Average	24 Hour	Annual
TPM	120	60	Howells River [1]	35.9	7.9	30%	13%
			Silver Yards [2]	42	21	35%	35%
			Houston Deposits [3,4]	49.2	-	41%	-
PM_{10}	50	-	-	-	-	-	-
$PM_{2.5}$	25	-	Howells River [1]	7.0	4.0	28%	-

(1) NEW MILLENNIUM CAPITAL CORP. Elross Lake Area Iron Ore Mine, Environmental Impact Statement Submitted To Government Of Newfoundland And Labrador, Prepared by Paul F. Wilkinson & Associates Inc., December 2009.

(2) LABRADOR IRON MINES Schefferville Area Iron Ore Mine Western Labrador, Environmental Impact Statement, Prepared by Labrador Iron Mines Limited, August 2009.

(3) LABRADOR IRON MINES Project Registration for the Houston 1 and 2 Deposits Mining Project, Prepared by Labrador Iron Mines Limited, December 20, 2011.

(4) All but one of the 9 samples were no more than 41% of the TPM air standards in the Province of Newfoundland and Labrador. The remaining sample, from October 7th, 2009, was slightly above the NL DOEC TPM standard (139 µg/m³).

6 RESULTS AND DISCUSSION

The following sections present the modelling results for both domains. The concentrations modelled for the various pollutants are added to the background concentrations and compared with the related standards. Results are presented in Table 32 and Table 33 respectively for the mine and rail yard area, while the isoconcentration curves associated with the various results are presented on Maps 10 to 25.

The numerical values on the maps correspond to the contribution of the Joyce Lake DSO Project only, while the color of the curves indicates if the total concentrations (including the background concentrations) comply with the standard, if such standard exists. The isoconcentration curves depict the maximum concentration obtained at each receptor, for the period specified, over the whole 3-year meteorological sample considered. Hence, it is important to note that these maximums do not necessarily occur during the same hour, day or year for each one of these computational points.

Finally, one must note that the emission rates are estimated in a conservative manner based on the worst-case scenario over hourly or daily periods depending on the pollutant and the source. The typical day modelled is repeated for the whole operating period. For example, blasting is planned to occur once every six days or so. In order to determine the maximum daily particulate matter concentrations, this day when blasting occurs is considered as the worst-case scenario and is tested on every day of the 3-year meteorological sample. The annual concentrations hence obtained are overestimated. However, the annual results obtained in this conservative way are all substantially lower than the standards, which render additional refinement unnecessary.

6.1 TOTAL PARTICULATE MATTER (TPM)

Results for total particulate matter are presented for 1-hour, 24-hour and annual averaging periods. In the vicinity of all the cabins, results show that the 24-hour and annual standards are met for both domains. The 1-hour and 24-hour isoconcentration curves are displayed on Maps 10 to 13 and represent the maximum concentrations obtained at each receptor over the related averaging period. The concentrations modelled for the annual average represent a small fraction of the standard, and the isoconcentration curves are not presented.

6.2 PARTICULATE MATTER LESS THAN 10 MICRONS (PM_{10})

Results for particulate matter less than 10 microns are presented for 1-hour and 24-hour averaging periods. In the vicinity of all the cabins, results show that the 24-hour standard is met for both domains. The 1-hour and 24-hour isoconcentration curves are displayed on Maps 14 to 17 and depict the maximum concentrations obtained at each receptor over the related averaging period.

6.3 PARTICULATE MATTER LESS THAN 2.5 MICRONS ($PM_{2.5}$)

Results for particulate matter less than 2.5 microns are presented for 1-hour, 24-hour and annual averaging periods. In the vicinity of all the cabins, results show that the 24-hour standard is met for both domains. The 1-hour and 24-hour isoconcentration curves are displayed on Maps 18 to 21 and depict the maximum concentrations obtained at each receptor over the related averaging period. Results for the annual average indicate that the Project has a relatively small contribution and the isoconcentration curves are not presented.

6.4 CARBON MONOXIDE (CO)

Results for carbon monoxide are presented for 1-hour and 8-hour averaging periods. In the vicinity of all the cabins, results show that the 1-hour and 8-hour standards are met for both domains. In all cases, the modelled concentrations represent a small fraction of the standards, and the isoconcentration curves are not presented.

6.5 NITROGEN DIOXIDE (NO_2)

Results for nitrogen dioxide are presented for 1-hour, 24-hour and annual averaging periods. In the vicinity of all the cabins, results show that the 1-hour, 24-hour and annual standards are met for both domains. The 1-hour and 24-hour isoconcentration curves are displayed for both domains on Maps 22 to 25 and depict the maximum concentrations obtained at each receptor over the related averaging period. The concentrations modelled for the annual average represent a small fraction of the standard, and the isoconcentration curves are not presented.

6.6 SULPHUR DIOXIDE (SO_2)

Results for sulphur dioxide are presented for 1-hour, 3-hour, 24-hour and annual averaging periods. In the vicinity of all the cabins, results show that the 1-hour, 3-hour, 24-hour and annual standards are met for both domains. In all cases, the modelled concentrations represent a small fraction of the standards, and the isoconcentration curves are not presented.

6.7 METALS

The concentrations of the various metals are computed using the modelled TPM concentrations, multiplied by the maximum metal content obtained from the characterization of ore, waste rock and overburden samples. For each metal, the maximum content measured is given in Table 34 for each lithology, along with the overall maximum. By considering the maximum content of all the samples and all the lithology characterized, one must note that this procedure is very conservative.

Results are presented for a total of 9 metals, including arsenic (As), cadmium (Cd), nickel (Ni), lead (Pb) and zinc (Zn), for which 24-hour period standards are defined. In the vicinity of all the cabins, results show that the 24-hour standards are met for both domains. As mentioned in Section 5.2, although background concentration data are not available for copper, modelled concentrations are very low compared to the standard (< 0.1%). In all cases, the estimated concentrations represent a small fraction of the standard and the isoconcentration curves are not presented.

Table 32 Maximum Concentrations Modelled at the Cabins - Mine Area

Substance	Acr.	Period	Statistic	Concentrations Modelled at the Cabins (µg/m³)				Background Concentration (µg/m³)	Total Modelled Concentration (µg/m³)	Modelled Project Contribution (%)	Standards [1] (µg/m3)	Percent of Standards (Project Only) (%)	Percent of Standards (Including Bk) (%)
				Maximums per Year			Maximum						
				2007	2008	2011	a	b	c=a+b	d=(a/c)*100	e	h=(a/e)*100	p=(c/e)*100
Total Particulate Matter	TPM	1 hour	1st Maximum	111.89	146.16	103.92	146.16	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	19.20	35.58	23.30	35.58	42	78	45.9	120	29.7	64.7
		1 year	Average	1.33	1.62	1.32	1.62	21	23	7.2	60	2.7	37.7
Particulate Matter (< 10 microns)	PM_{10}	1 hour	1st Maximum	109.33	145.66	103.10	145.66	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	15.93	28.01	22.31	28.01	17.5	46	61.5	50	56.0	91.0
Particulate Matter (< 2.5 microns)	$PM_{2.5}$	1 hour	1st Maximum	51.73	69.65	51.28	69.65	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	7.48	13.23	9.69	13.23	8.75	22	60.2	25	52.9	87.9
		1 year	Average	0.39	0.46	0.38	0.46	*NA*	*NA*	*NA*	-	-	-
Nitrogen Dioxide	NO_2	1 hour	1st Maximum	92.95	92.79	73.58	92.95	-	93	100.0	400	23.2	23.2
		24 hour	1st Maximum	15.25	22.96	16.21	22.96	-	23	100.0	200	11.5	11.5
		1 year	Average	0.69	1.05	0.73	1.05	-	1.05	100.0	100	1.1	1.1
Sulphur Dioxide	SO_2	1 hour	1st Maximum	0.72	0.66	0.76	0.76	-	0.76	100.0	900	0.08	0.08
		3 hour	1st Maximum	0.38	0.31	0.34	0.38	-	0.38	100.0	600	0.06	0.06
		24 hour	1st Maximum	0.053	0.047	0.042	0.053	-	0.053	100.0	300	0.02	0.02
		1 year	Average	0.0010	0.0011	0.0008	0.0011	-	0.0011	100.0	60	0.00	0.00
Carbon Monoxide	CO	1 hour	1st Maximum	298.4	273.4	313.8	313.8	-	314	100.0	35000	0.9	0.9
		8 hour	1st Maximum	60.71	51.26	52.25	60.71	-	61	100.0	15000	0.4	0.4
Arsenic	As	24 hour	1st Maximum	9.98E-04	1.85E-03	1.21E-03	1.85E-03	2.00E-02	2.19E-02	8.5	0.3	0.6	7.3
		1 year	Average	6.91E-05	8.43E-05	6.87E-05	8.43E-05	2.00E-02	2.01E-02	0.4	-	-	-
Cadmium	Cd	24 hour	1st Maximum	1.69E-05	3.13E-05	2.05E-05	3.13E-05	1.40E-04	1.71E-04	18.3	2	0.002	0.009
		1 year	Average	1.17E-06	1.43E-06	1.16E-06	1.43E-06	8.20E-05	8.34E-05	1.7	-	-	-
Chromium	Cr	24 hour	1st Maximum	3.65E-03	6.76E-03	4.43E-03	6.76E-03	5.30E-03	1.21E-02	56.1	-	-	-
		1 year	Average	2.52E-04	3.08E-04	2.51E-04	3.08E-04	2.70E-03	3.01E-03	10.2	-	-	-
Copper	Cu	24 hour	1st Maximum	2.69E-02	4.98E-02	3.26E-02	4.98E-02	*NA*	*NA*	*NA*	50	0.1	*NA*
		1 year	Average	1.86E-03	2.27E-03	1.85E-03	2.27E-03	*NA*	*NA*	*NA*	-	-	-
Lead	Pb	24 hour	1st Maximum	2.69E-04	4.98E-04	3.26E-04	4.98E-04	3.40E-03	3.90E-03	12.8	2	0.02	0.19
		1 year	Average	1.86E-05	2.27E-05	1.85E-05	2.27E-05	1.70E-03	1.72E-03	1.3	-	-	-
Nickel	Ni	24 hour	1st Maximum	8.25E-04	1.53E-03	1.00E-03	1.53E-03	3.20E-01	3.22E-01	0.48	2	0.1	16.1
		1 year	Average	5.71E-05	6.97E-05	5.68E-05	6.97E-05	3.50E-02	3.51E-02	0.20	-	-	-
Selenium	Se	24 hour	1st Maximum	1.90E-04	3.52E-04	2.31E-04	3.52E-04	3.00E-02	3.04E-02	1.2	-	-	-
		1 year	Average	1.31E-05	1.60E-05	1.31E-05	1.60E-05	3.00E-02	3.00E-02	0.05	-	-	-
Uranium	U	24 hour	1st Maximum	8.83E-05	1.64E-04	1.07E-04	1.64E-04	5.30E-01	5.30E-01	0.031	-	-	-
		1 year	Average	6.11E-06	7.46E-06	6.08E-06	7.46E-06	1.70E-01	1.70E-01	0.004	-	-	-
Zinc	Zn	24 hour	1st Maximum	1.92E-03	3.56E-03	2.33E-03	3.56E-03	5.70E-02	6.06E-02	5.9	120	0.003	0.050
		1 year	Average	1.33E-04	1.62E-04	1.32E-04	1.62E-04	2.00E-02	2.02E-02	0.8	-	-	-

[1] Newfoundland and Labrador Regulation 39/04, Air Pollution Control Regulations, 2004.

NA: Not Available

Table 33 Maximum Concentrations Modelled at the Cabins - Rail Yard Area

Substance	Acr.	Period	Statistic	Concentrations Modelled at the Cabins (µg/m³)				Background Concentration (µg/m³)	Total Modelled Concentration (µg/m³)	Modelled Project Contribution (%)	Standards (1) (µg/m3)	Percent of Standards (Project Only) (%)	Percent of Standards (Including Bk) (%)
				Maximums per Year			Maximum						
				2007	2008	2011	a	b	c=a+b	d=(a/c)*100	e	h=(a/e)*100	p=(c/e)*100
Total Particulate Matter	TPM	1 hour	1st Maximum	58.86	64.70	59.68	64.70	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	20.10	20.19	21.45	21.45	42	63	33.8	120	17.9	52.9
		1 year	Average	3.34	2.66	2.91	3.34	21	24	13.7	60	5.6	40.6
Particulate Matter (< 10 microns)	PM_{10}	1 hour	1st Maximum	58.40	63.49	58.17	63.49	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	17.68	12.15	18.72	18.72	17.5	36	51.7	50	37.4	72.4
Particulate Matter (< 2.5 microns)	$PM_{2.5}$	1 hour	1st Maximum	24.62	25.02	26.61	26.61	*NA*	*NA*	*NA*	-	-	-
		24 hour	1st Maximum	6.97	3.85	7.52	7.52	8.75	16	46.2	25	30.1	65.1
		1 year	Average	0.25	0.20	0.22	0.25	*NA*	*NA*	*NA*	-	-	-
Nitrogen Dioxide	NO_2	1 hour	1st Maximum	44.49	41.45	40.74	44.49	-	44	100.0	400	11.1	11.1
		24 hour	1st Maximum	17.80	12.51	11.86	17.80	-	18	100.0	200	8.9	8.9
		1 year	Average	0.60	0.34	0.43	0.60	-	0.60	100.0	100	0.6	0.6
Sulphur Dioxide	SO_2	1 hour	1st Maximum	0.16	0.15	0.15	0.16	-	0.16	100.0	900	0.018	0.018
		3 hour	1st Maximum	0.13	0.10	0.13	0.13	-	0.13	100.0	600	0.022	0.022
		24 hour	1st Maximum	0.061	0.042	0.040	0.061	-	0.06	100.0	300	0.020	0.020
		1 year	Average	0.0014	0.0009	0.0011	0.0014	-	0.0014	100.0	60	0.002	0.002
Carbon Monoxide	CO	1 hour	1st Maximum	9.11	9.88	11.06	11.06	-	11.1	100.0	35000	0.032	0.032
		8 hour	1st Maximum	6.82	6.00	6.45	6.82	-	6.8	100.0	15000	0.045	0.045
Arsenic	As	24 hour	1st Maximum	1.05E-03	1.05E-03	1.12E-03	1.12E-03	2.00E-02	2.11E-02	5.3	0.3	0.4	7.0
		1 year	Average	1.74E-04	1.38E-04	1.51E-04	1.74E-04	2.00E-02	2.02E-02	0.9	-	-	-
Cadmium	Cd	24 hour	1st Maximum	1.77E-05	1.78E-05	1.89E-05	1.89E-05	1.40E-04	1.59E-04	11.9	2	0.001	0.008
		1 year	Average	2.94E-06	2.34E-06	2.56E-06	2.94E-06	8.20E-05	8.49E-05	3.5	-	-	-
Chromium	Cr	24 hour	1st Maximum	3.82E-03	3.84E-03	4.07E-03	4.07E-03	5.30E-03	9.37E-03	43.5	-	-	-
		1 year	Average	6.35E-04	5.05E-04	5.52E-04	6.35E-04	2.70E-03	3.33E-03	19.0	-	-	-
Copper	Cu	24 hour	1st Maximum	2.81E-02	2.83E-02	3.00E-02	3.00E-02	*NA*	*NA*	*NA*	50	0.1	*NA*
		1 year	Average	4.68E-03	3.72E-03	4.07E-03	4.68E-03	*NA*	*NA*	*NA*	-	-	-
Lead	Pb	24 hour	1st Maximum	2.81E-04	2.83E-04	3.00E-04	3.00E-04	3.40E-03	3.70E-03	8.1	2	0.02	0.19
		1 year	Average	4.68E-05	3.72E-05	4.07E-05	4.68E-05	1.70E-03	1.75E-03	2.7	-	-	-
Nickel	Ni	24 hour	1st Maximum	8.64E-04	8.68E-04	9.22E-04	9.22E-04	3.20E-01	3.21E-01	0.29	2	0.05	16.0
		1 year	Average	1.44E-04	1.14E-04	1.25E-04	1.44E-04	3.50E-02	3.51E-02	0.4	-	-	-
Selenium	Se	24 hour	1st Maximum	1.99E-04	2.00E-04	2.12E-04	2.12E-04	3.00E-02	3.02E-02	0.7	-	-	-
		1 year	Average	3.31E-05	2.63E-05	2.88E-05	3.31E-05	3.00E-02	3.00E-02	0.11	-	-	-
Uranium	U	24 hour	1st Maximum	9.25E-05	9.29E-05	9.87E-05	9.87E-05	5.30E-01	5.30E-01	0.02	-	-	-
		1 year	Average	1.54E-05	1.22E-05	1.34E-05	1.54E-05	1.70E-01	1.70E-01	0.01	-	-	-
Zinc	Zn	24 hour	1st Maximum	2.01E-03	2.02E-03	2.14E-03	2.14E-03	5.70E-02	5.91E-02	3.6	120	0.002	0.049
		1 year	Average	3.34E-04	2.66E-04	2.91E-04	3.34E-04	2.00E-02	2.03E-02	1.6	-	-	-

(1) Newfoundland and Labrador Regulation 39/04, Air Pollution Control Regulations, 2004.

NA: Not Available

Table 34 Maximum Metal Content Measured per Lithology

Lithology	Maximum Metal Content Measured per Lithology (µg/g)								
	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Selenium	Uranium	Zinc
	As	Cd	Cr	Cu	Ni	Pb	Se	U	Zn
LMH (8 samples)	52	0.09	160	20	11	12	9.9	4.6	32
RC (11 samples)	46	0.16	190	28	11	4	0.9	2.8	40
UMH (1 sample)	27	0.05	91	4.7	5.4	2.8	0.35	1.3	20
Overburden (23 samples)	30	0.88	190	1400	43	14	1.1	4	100
Maximum	**52**	**0.88**	**190**	**1400**	**43**	**14**	**9.9**	**4.6**	**100**

7 CONCLUSION

Labec Century Iron Ore Inc. is proposing to develop an iron mine in western Labrador, approximately 20 kilometres northeast of the Town of Schefferville, Quebec. Air quality modelling is required in the context of the Environmental Assessment (EA) of the Project and used to evaluate the impacts of the emissions of particulate matter (TPM, PM_{10} and $PM_{2.5}$), nitrogen dioxide (NO_2), sulphur dioxide (SO_2) and carbon monoxide (CO) resulting from the various operations planned within the mining project (blasting, hauling, handling, processing, etc.). A total of nine metals are also considered based on the TPM modelled concentrations and the metal content in the ore, waste rock and overburden.

The study is based on the Project Description and additional technical information provided by Labec Century Iron Ore Inc. Emission rates have been evaluated in a conservative manner according to the information available. The modelling approach of this study is based on the methodology presented in the *Guideline for Plume Dispersion Modelling, 2nd revision* by the Department of Environment & Conservation of the Government of Newfoundland and Labrador (NL DOEC, 2012). The CALPUFF modelling system was used to compute the atmospheric dispersion of the various substances.

The modelling has been accomplished within two domains, covering the various activities planned in the mine and the rail yard areas. Substantial parts of the 43 km roadway connecting both areas were included in the model such that the results are assumed to be representative of the remaining part of the roadway that was excluded.

Numerical results have been presented for the various neighboring cabins while the general trends have been portrayed with isoconcentration curves. The modelling results for all the cabins within the mine and the rail yard areas showed that the air quality standards are met at all times for all pollutants considered in the current study.

However, the modelling pointed out the hauling as an important emitter of particulate matter, which may cause issues if not controlled efficiently. To meet the standards at the closest cabins, application of chloride-based dust suppressant has been considered on all segments, which is expected to provide a dust emission reduction of around 84%. In the mine area, the limitation of the traveling speed allows for an additional 44% of dust emission reduction, for a combined mitigation of 90%. The silt content of the road surfaces may also have a significant impact, and adequate maintenance may help reduce significantly the emissions. Finally, watering may also be used as an alternative or in addition to the chloride-based treatment in order to achieve the desired mitigation objectives. Based on the current results, further discussions with the DOEC should be required in order to determine specific expectations and flexibilities.

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Appendix A

MAPS

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Infrastructure Layout

Source:
CanVec, 1/50 000, RNCan, 2010

Mapping: WSP
File : 121-18002-00_m1_wspT052_Layout_150210.mxd

Scale 1:125 000

0 1,25 2,5 km

UTM, Zone 19, NAD83

Map 1

February 2015

WSP

66°45' 66°40' 66°35' 66°30'

54°55' 54°50' 54°45' 54°40'

Lac Fauves
Lac Rivals
Lac Stinson
Lac Hanas
Lac Dolly
Lac John
Barry Lake
Lac Genie
Lac Houston
Louise Lake
Baker Lake
Oboe Lake
Mike Lake
Gilling River
Astray Lake
Attikamagen Lake
Timmins Bay
Montreal Bay
Joyce Lake
Iron Arm
Hollinger Lake
Petitsikapau Lake

Schefferville
Québec
Newfoundland and Labrador

Mine Area

Rail Yard Area

Rail Yard Area

Main Line
Product Stockpiles
Loading Yard
Train Loop

Scale 1:25 000
0 250 500 m

Mine Area

Waste Rock Dump
Overburden Stockpile
Pit
Blending Pad
Office and Truck Shop Area
Low Grade Stockpiles
Plant Pad
Magazine Explosive Area
Power Plant Pad
Camp Site

Scale 1:25 000
0 250 500 m

66°38' 66°36' 66°34' 66°32' 66°30' 66°28' 66°26'

54°58' 54°56' 54°54' 54°52' 54°50' 54°48' 54°46'

Attikamagen Lake

Montreal Bay

Timmins Bay

Joyce Lake

Iron Arm

Hollinger Lake

Lac Stinson

Petitsikapau Lake

Québec

Newfoundland and Labrador

Cabin

Receptor Grid

Modelling Domain

Provincial Border

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Domain and Receptor Locations for the Atmospheric Dispersion Modelling of the Mine Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m2_wspT044_Domain_Mine_150212.mxd

Scale 1:60 000

0 600 1 200 m

UTM, Zone 19, NAD83

Map 2

February 2015

WSP

66°42' 66°41' 66°40' 66°39' 66°38' 66°37' 66°36' 66°35'

54°42' 54°41' 54°40' 54°39' 54°38' 54°37' 54°36'

Baker Lake

Oboe Lake

Mike Lake

Gilling River

Astray Lake

Cabin

Receptor Grid

Modelling Domain

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Domain and Receptor Locations for the Atmospheric Dispersion Modelling of the Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m3_wspT045_Domain_RYA_150212.mxd

Scale 1:35 000

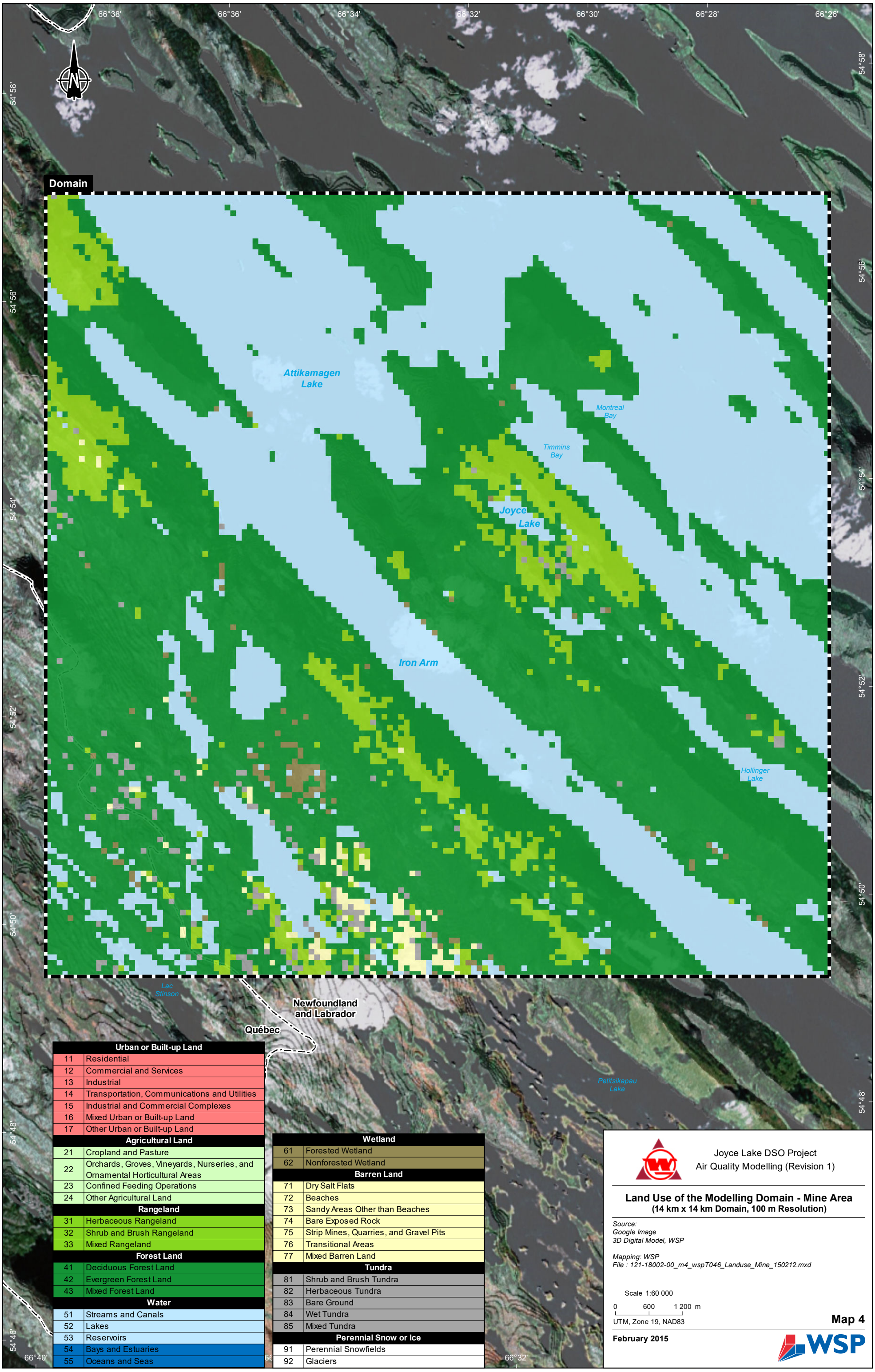
0 350 700 m

UTM, Zone 19, NAD83

Map 3

February 2015

WSP



Urban or Built-up Land	
11	Residential
12	Commercial and Services
13	Industrial
14	Transportation, Communications and Utilities
15	Industrial and Commercial Complexes
16	Mixed Urban or Built-up Land
17	Other Urban or Built-up Land
Agricultural Land	
21	Cropland and Pasture
22	Orchards, Groves, Vineyards, Nurseries, and Ornamental Horticultural Areas
23	Confined Feeding Operations
24	Other Agricultural Land
Rangeland	
31	Herbaceous Rangeland
32	Shrub and Brush Rangeland
33	Mixed Rangeland
Forest Land	
41	Deciduous Forest Land
42	Evergreen Forest Land
43	Mixed Forest Land
Water	
51	Streams and Canals
52	Lakes
53	Reservoirs
54	Bays and Estuaries
55	Oceans and Seas

Wetland	
61	Forested Wetland
62	Nonforested Wetland
Barren Land	
71	Dry Salt Flats
72	Beaches
73	Sandy Areas Other than Beaches
74	Bare Exposed Rock
75	Strip Mines, Quarries, and Gravel Pits
76	Transitional Areas
77	Mixed Barren Land
Tundra	
81	Shrub and Brush Tundra
82	Herbaceous Tundra
83	Bare Ground
84	Wet Tundra
85	Mixed Tundra
Perennial Snow or Ice	
91	Perennial Snowfields
92	Glaciers

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Land Use of the Modelling Domain - Mine Area
(14 km x 14 km Domain, 100 m Resolution)

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m4_wspT046_Landuse_Mine_150212.mxd

Scale 1:60 000

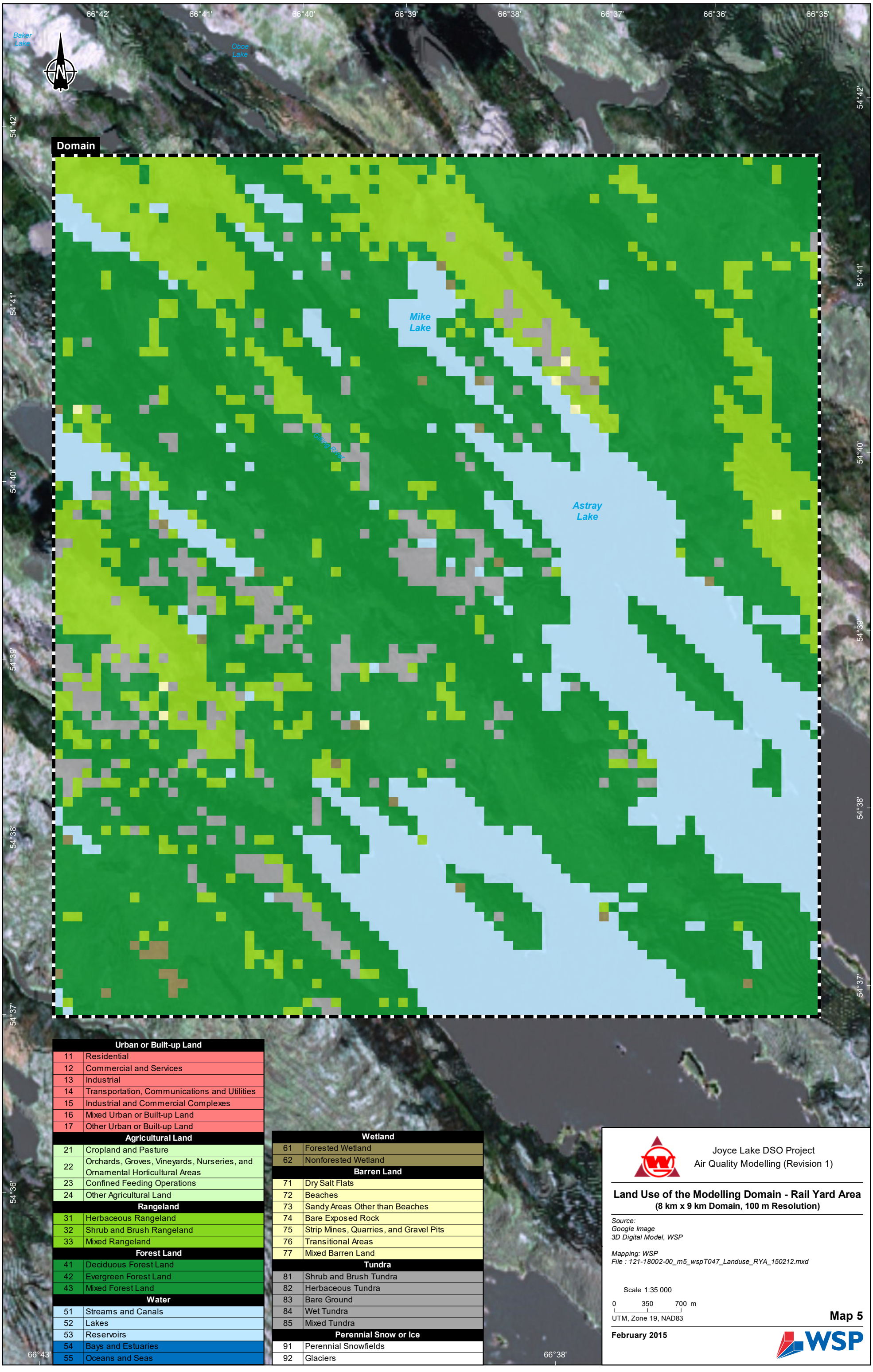
0 600 1 200 m

UTM, Zone 19, NAD83

Map 4

February 2015

WSP



Urban or Built-up Land	
11	Residential
12	Commercial and Services
13	Industrial
14	Transportation, Communications and Utilities
15	Industrial and Commercial Complexes
16	Mixed Urban or Built-up Land
17	Other Urban or Built-up Land
Agricultural Land	
21	Cropland and Pasture
22	Orchards, Groves, Vineyards, Nurseries, and Ornamental Horticultural Areas
23	Confined Feeding Operations
24	Other Agricultural Land
Rangeland	
31	Herbaceous Rangeland
32	Shrub and Brush Rangeland
33	Mixed Rangeland
Forest Land	
41	Deciduous Forest Land
42	Evergreen Forest Land
43	Mixed Forest Land
Water	
51	Streams and Canals
52	Lakes
53	Reservoirs
54	Bays and Estuaries
55	Oceans and Seas

Wetland	
61	Forested Wetland
62	Nonforested Wetland
Barren Land	
71	Dry Salt Flats
72	Beaches
73	Sandy Areas Other than Beaches
74	Bare Exposed Rock
75	Strip Mines, Quarries, and Gravel Pits
76	Transitional Areas
77	Mixed Barren Land
Tundra	
81	Shrub and Brush Tundra
82	Herbaceous Tundra
83	Bare Ground
84	Wet Tundra
85	Mixed Tundra
Perennial Snow or Ice	
91	Perennial Snowfields
92	Glaciers

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Land Use of the Modelling Domain - Rail Yard Area

(8 km x 9 km Domain, 100 m Resolution)

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m5_wspT047_Landuse_RYA_150212.mxd

Scale 1:35 000

0 350 700 m

UTM, Zone 19, NAD83

Map 5

February 2015

66°38' 66°36' 66°34' 66°32' 66°30' 66°28' 66°26'

54°58' 54°56' 54°54' 54°52' 54°50' 54°48' 54°46'

Domain

Attikamagen Lake

Montreal Bay

Timmins Bay

Joyce Lake

Iron Arm

Hollinger Lake

Lac Stinson

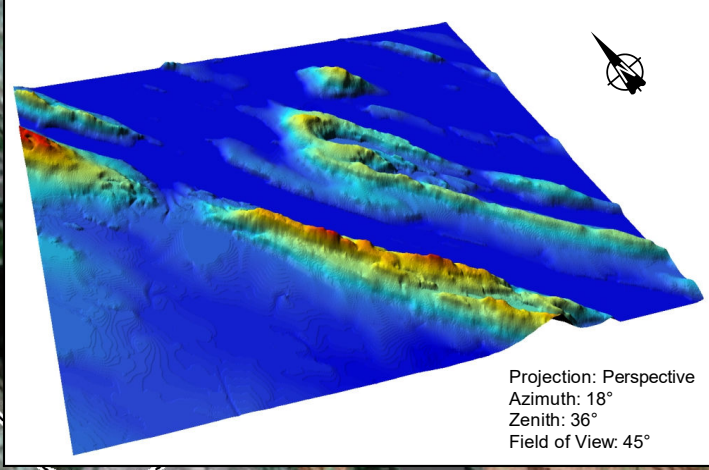
Newfoundland and Labrador

Québec

Petitsikapau Lake

66°40' 66°38' 66°36' 66°34' 66°32'

3D view



Projection: Perspective
Azimuth: 18°
Zenith: 36°
Field of View: 45°

Land Topography (m)

615
600
585
570
555
540
525
511
496
481
466

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Topography of the Modelling Domain - Mine Area
(14 km x 14 km Domain, 100 m Resolution)

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m6_wspT048_Topo_Mine_150212.mxd

Scale 1:60 000

0 600 1 200 m

UTM, Zone 19, NAD83

Map 6

February 2015

WSP

66°42' 66°41' 66°40' 66°39' 66°38' 66°37' 66°36' 66°35'

54°42' 54°41' 54°40' 54°39' 54°38' 54°37' 54°36'

Baker Lake

Oboe Lake

Domain

Mike Lake

Astray Lake

Calling River

3D view

Projection: Perspective
Azimuth: 18°
Zenith: 36°
Field of View: 45°

Land Topography (m)

570
559
548
537
526
515
504
493
482
471
460

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Topography of the Modelling Domain - Rail Yard Area
(8 km x 9 km Domain, 100 m Resolution)

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m7_wspT049_Topo_RYA_150212.mxd

Scale 1:35 000

0 350 700 m

UTM, Zone 19, NAD83

Map 7

February 2015

WSP

Hauling Segment Endpoint

Point Source

Exhaust Gas

Volume Source

Crushing and Screening Plant

Dozing Operation

Handling Operation

Drilling Operation

Blasting

Hauling Roadway

Area Source

Wind Erosion

66°32'

54°54'

54°52'

54°50'

66°34'

A

sp_wst

P02_P01

P04_P03

P04_P05

sp_ob

dump_ob

P03_P02

P06_P03

B

P06_P08

P08_P09

P09_P13

P13_P14

P08_P10

P10_P11

P11_P12

dump_lg2

P14_P18

P09_P10

P13_P15

dump_lg1

P18_P19

P19_P20

C

P16_P17

P15_P16

P14_P15

P31_P29

P31_P34

P33_P32

P34_P33

genset1

P34_P35

P36_P35

D

crush_j

efelp01

convtr1

screen_c;
screen_f

P23_P24

sp_lumpp

crush_c

convtr2

convtr3

sp_sintp

P27_P28

P25_P26

Scale 1:800

0 8 16 m

A

sp_wst

dump_wst

tdoz2

tdoz1

etdoz02

P02_P01

etdoz01

Scale 1:5 000

0 50 100 m

B

P06_P07

edrill01

drill1

eexcv02

load_pw

load_plg

P06_P07

blast1

load_po

eexcv01

P06_P08

load_pob

Scale 1:5 000

0 50 100 m

C

P19_P20

dump_o1

sp_blend

P21_P22

dump_o2

efelp03

D

dump_pls

P23_P24

P25_P26

sp_sintb

P29_P30

P27_P28

dump_pll

efelp02

sp_lumpb

load_hts

P33_P32

load_htl

Scale 1:5 000

0 50 100 m

Segment	Volumes
P02_P01	hlg0001 to hlg0027
P03_P02	hlg0028 to hlg0031
P06_P03	hlg0032 to hlg0040
P04_P03	hlg0041 to hlg0053
P04_P05	hlg0054 to hlg0058
P06_P08	hlg0059 to hlg0069
P06_P07	hlg0070 to hlg0089
P08_P09	hlg0090 to hlg0093
P08_P10	hlg0094 to hlg0096
P09_P13	hlg0097 to hlg0099
P09_P10	hlg0100 to hlg0103
P10_P11	hlg0104 to hlg0105
P11_P12	hlg0106 to hlg0111
P13_P14	hlg0112 to hlg0114
P13_P15	hlg0115 to hlg0117
P14_P18	hlg0118 to hlg0138
P14_P15	hlg0139 to hlg0142
P15_P16	hlg0143 to hlg0144
P16_P17	hlg0145 to hlg0150
P21_P18	hlg0151 to hlg0153
P18_P19	hlg0154 to hlg0158
P19_P20	hlg0159 to hlg0162
P21_P22	hlg0163 to hlg0166
P23_P24	hlg0167 to hlg0172
P25_P26	hlg0173 to hlg0177
P27_P28	hlg0178 to hlg0183
P31_P29	hlg0184 to hlg0185
P29_P30	hlg0186 to hlg0188
P31_P34	hlg0189 to hlg0192
P33_P32	hlg0193 to hlg0196
P34_P33	hlg0197 to hlg0202
P34_P35	hlg0203 to hlg0427
P36_P35	hlg0428 to hlg1234

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Location of the Emission Sources
Mine Area

Source:

Mapping: WSP
File : 121-18002-00_m8_wspT050_Source_Mine_150212.mxd

Scale 1:30 000

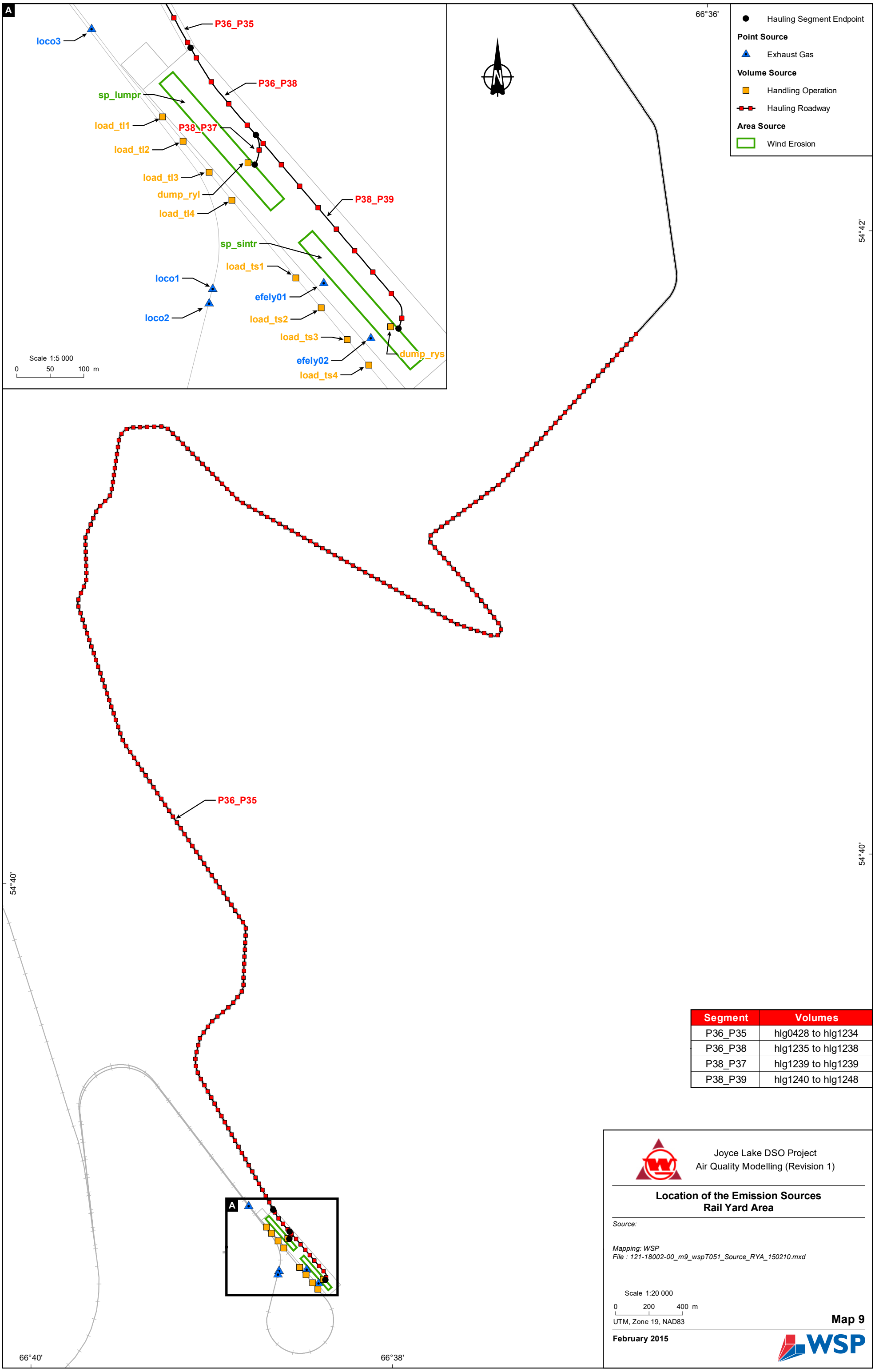
0 300 600 m

UTM, Zone 19, NAD83

Map 8

February 2015

WSP



Segment	Volumes
P36_P35	hlg0428 to hlg1234
P36_P38	hlg1235 to hlg1238
P38_P37	hlg1239 to hlg1239
P38_P39	hlg1240 to hlg1248

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Location of the Emission Sources
Rail Yard Area

Source:

Mapping: WSP
File : 121-18002-00_m9_wspT051_Source_RYA_150210.mxd

Scale 1:20 000
0 200 400 m
UTM, Zone 19, NAD83

Map 9

February 2015

66°38' 66°36' 66°34' 66°32' 66°30' 66°28'

54°56' 54°54' 54°52' 54°50' 54°48'

Attikamagen Lake

Montreal Bay

Timmins Bay

Joyce Lake

Iron Arm

Hollinger Lake

Lac Stinson

Québec

Newfoundland and Labrador

Isoconcentration Line
(Not including background concentration)

Receptor Domain

Cabin

Provincial Border

Air Quality Standard: N/A

Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 1-hour Average TPM Concentration
Mine Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m10_wspT053_1h_TPM_Mine_150210.mxd

Scale 1:50 000

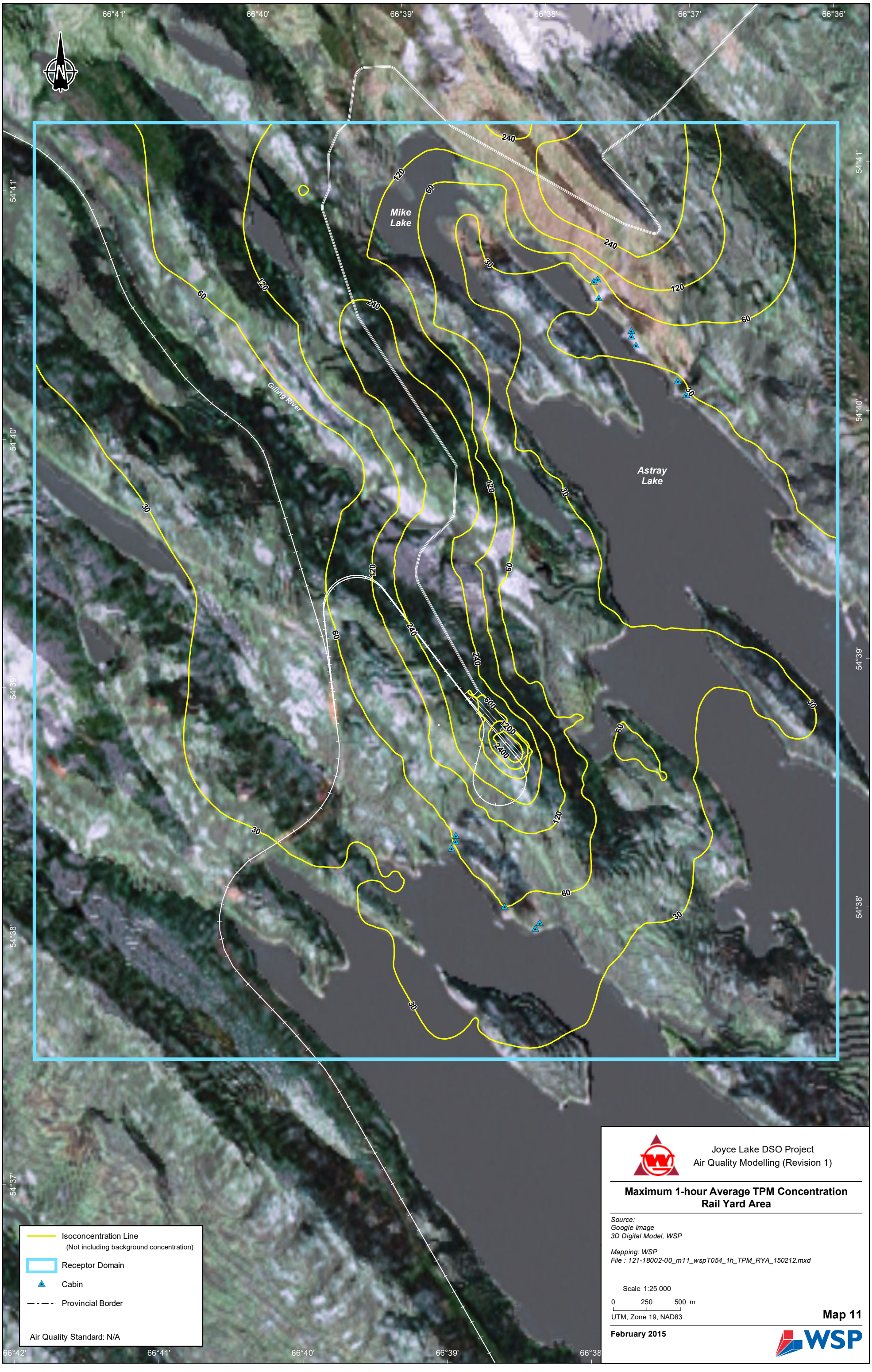
0 500 1 000 m

UTM, Zone 19, NAD83

Map 10

February 2015

WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 1-hour Average TPM Concentration
Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m11_wspT054_1h_TPM_RYA_150212.mxd

Scale 1:25 000

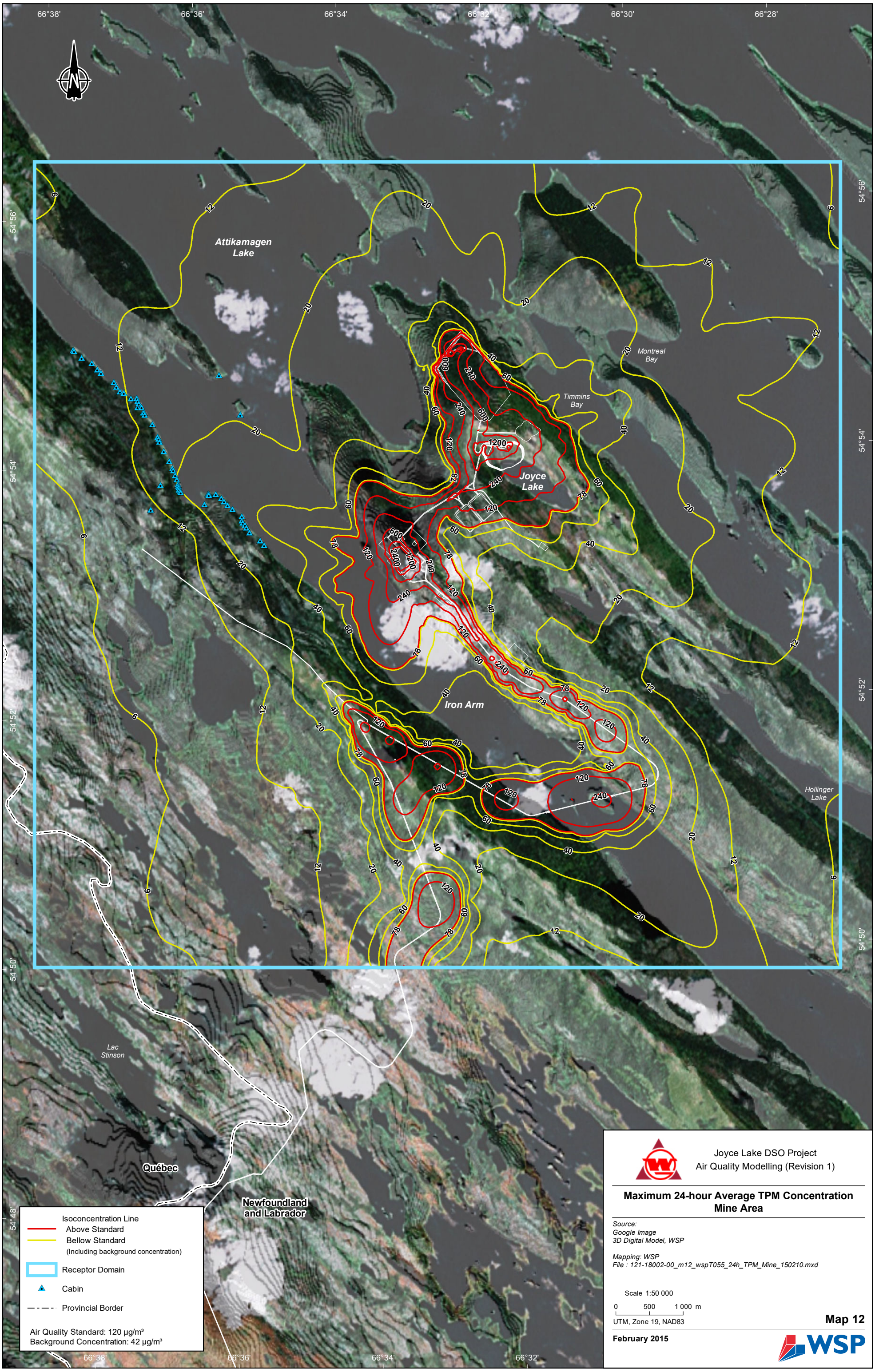
0 250 500 m

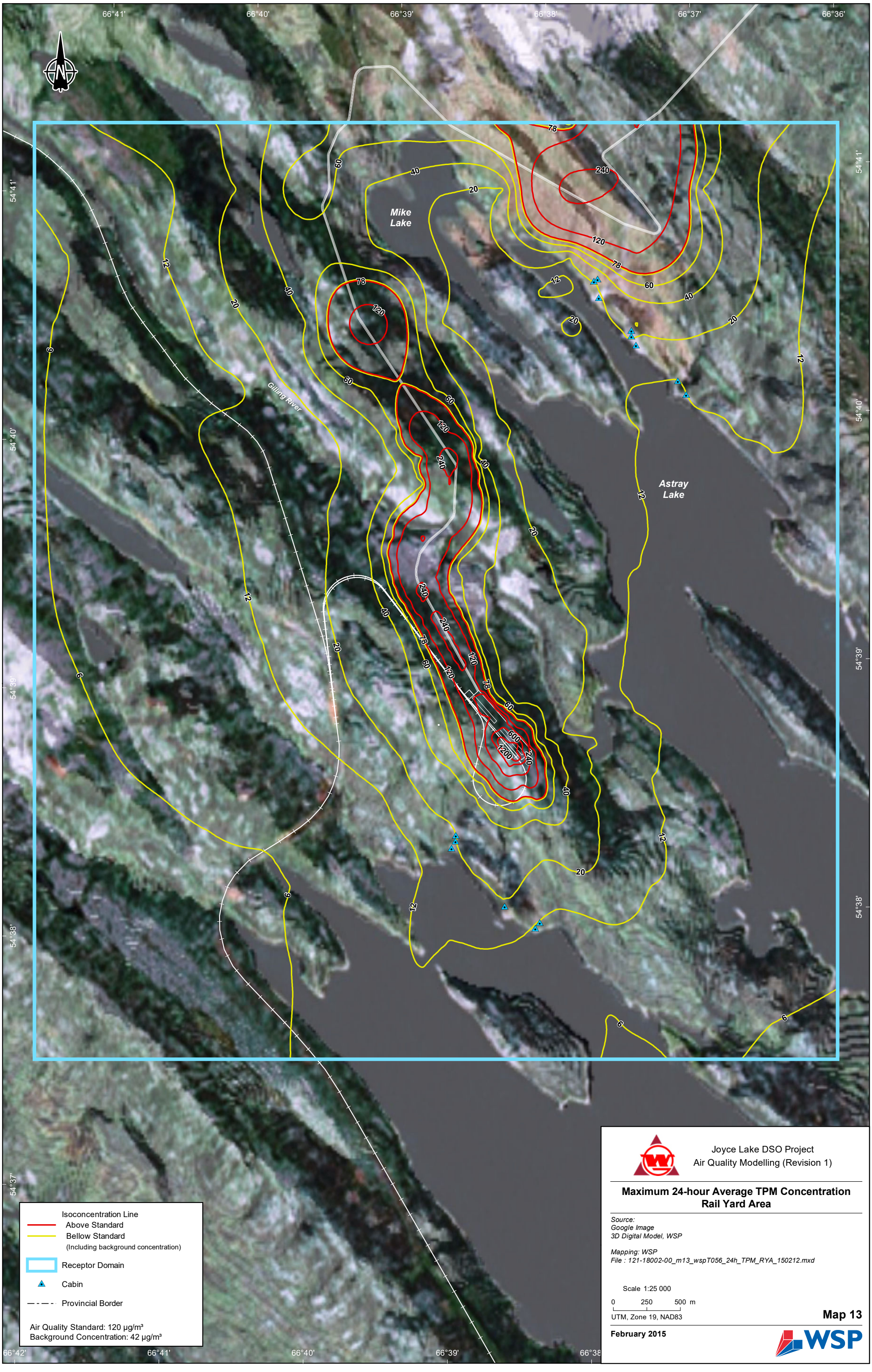
UTM, Zone 19, NAD83

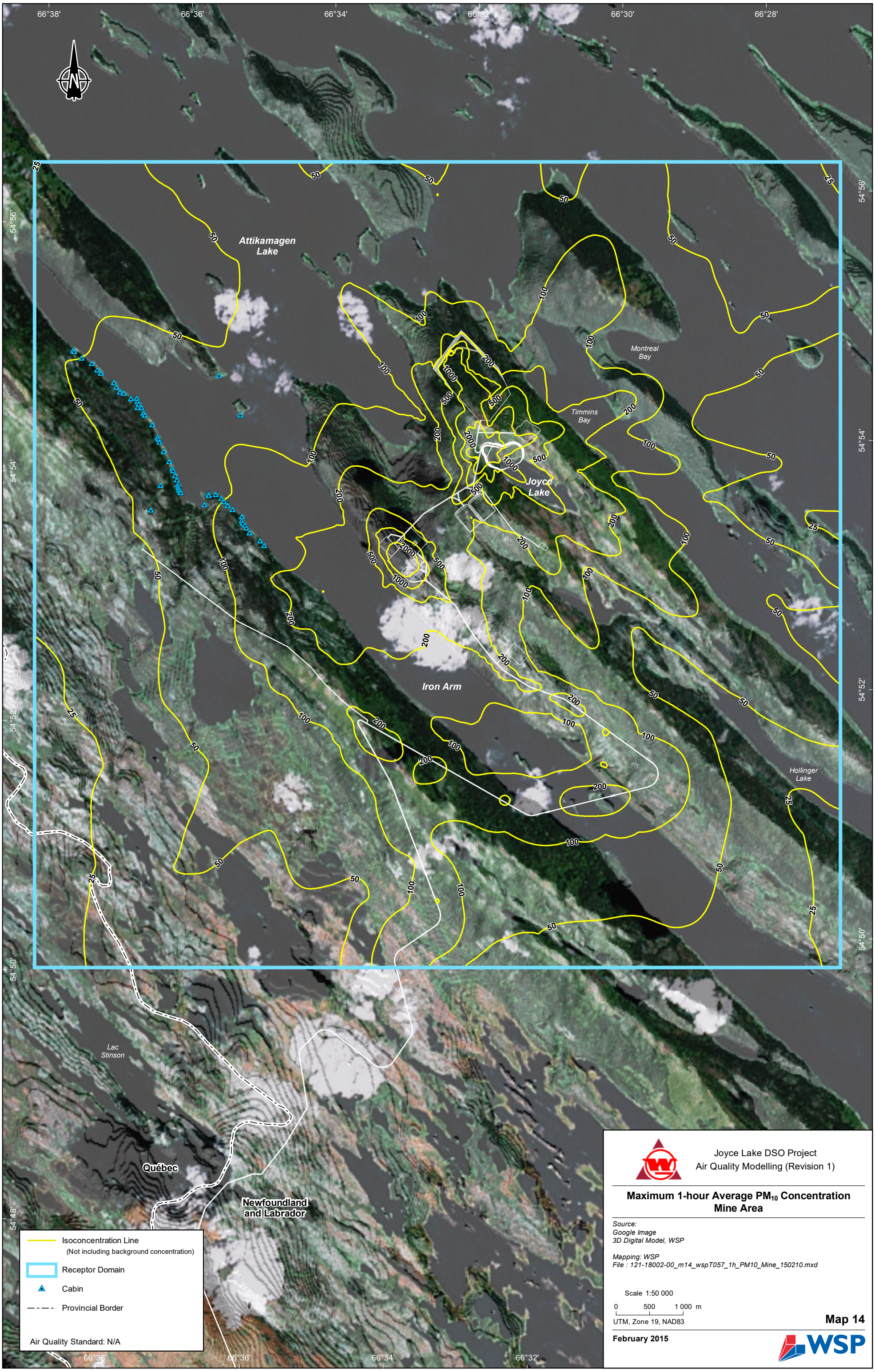
Map 11

February 2015

WSP


66°38'
66°36'
66°34'
66°32'
66°30'
66°28'
54°56'
54°54'
54°52'
54°50'
54°48'
Attikamagen Lake
Montreal Bay
Timmins Bay
Joyce Lake
Iron Arm
Hollinger Lake
Lac Stinson
Québec
Newfoundland and Labrador
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 120 µg/m³
Background Concentration: 42 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 24-hour Average TPM Concentration
Mine Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m12_wspT055_24h_TPM_Mine_150210.mxd
Scale 1:50 000
0 500 1 000 m
UTM, Zone 19, NAD83
Map 12
February 2015
WSP


66°41'
66°40'
66°39'
66°38'
66°37'
66°36'
54°41'
54°40'
54°39'
54°38'
54°37'
Mike Lake
Astray Lake
Gilling River
78
240
120
60
40
20
12
6
600
1200
90
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 120 µg/m³
Background Concentration: 42 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 24-hour Average TPM Concentration
Rail Yard Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m13_wspT056_24h_TPM_RYA_150212.mxd
Scale 1:25 000
0 250 500 m
UTM, Zone 19, NAD83
Map 13
February 2015
WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 1-hour Average PM_{10} Concentration
Mine Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m14_wspT057_1h_PM10_Mine_150210.mxd

Scale 1:50 000

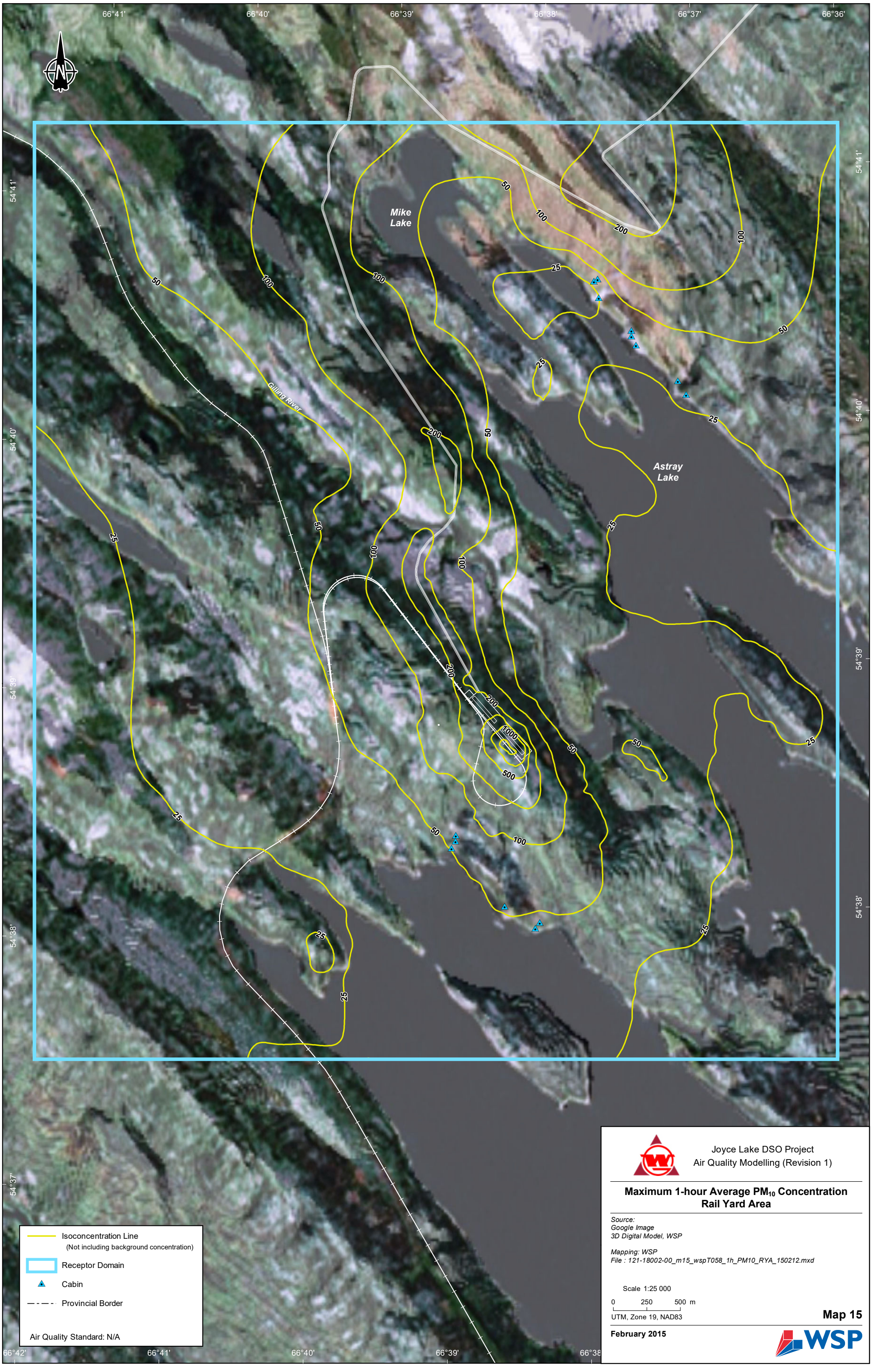
0 500 1 000 m

UTM, Zone 19, NAD83

Map 14

February 2015

WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 1-hour Average PM_{10} Concentration
Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m15_wspT058_1h_PM10_RYA_150212.mxd

Scale 1:25 000

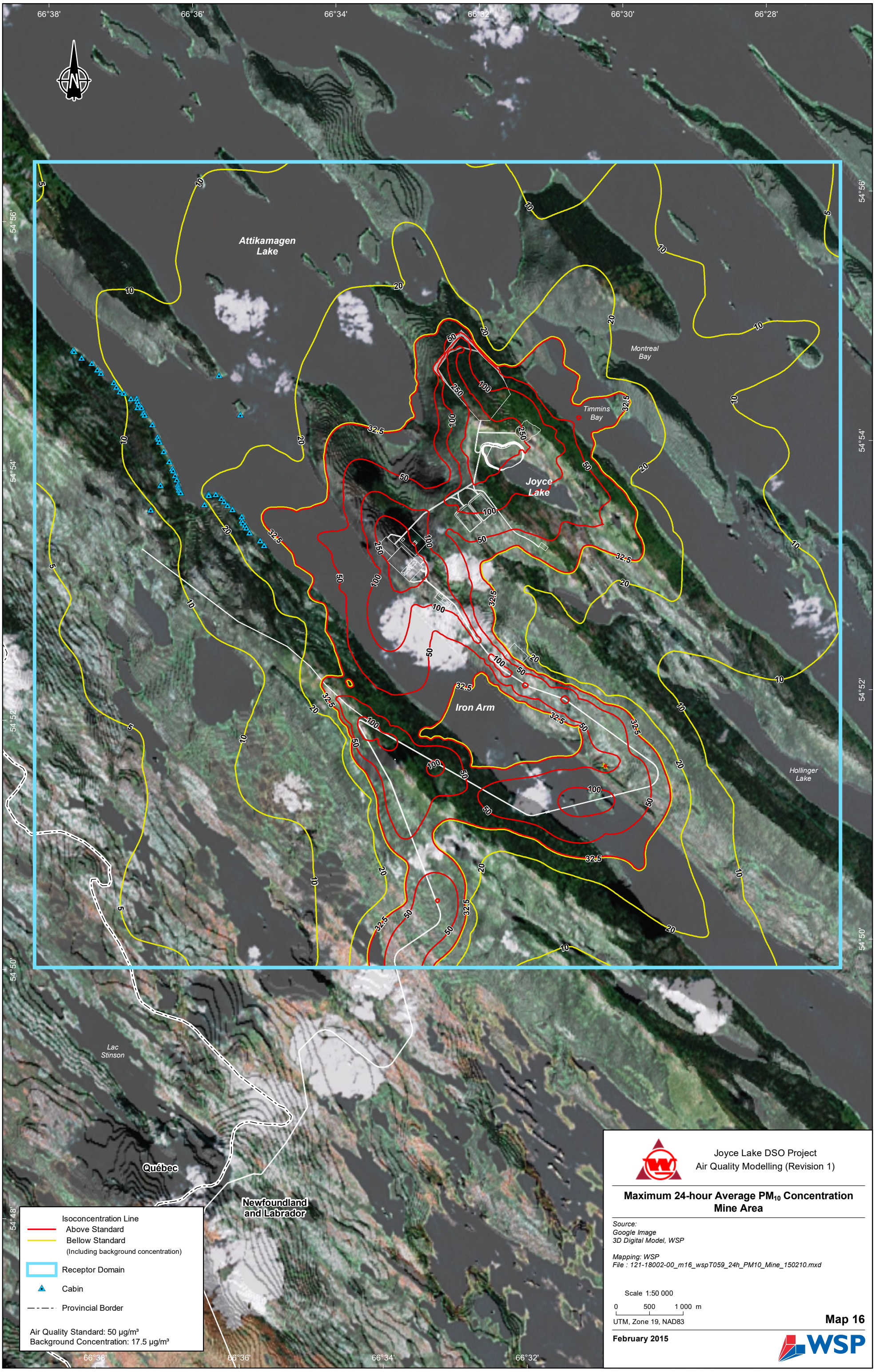
0 250 500 m

UTM, Zone 19, NAD83

Map 15

February 2015

WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 24-hour Average PM_{10} Concentration Mine Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m16_wspT059_24h_PM10_Mine_150210.mxd

Scale 1:50 000

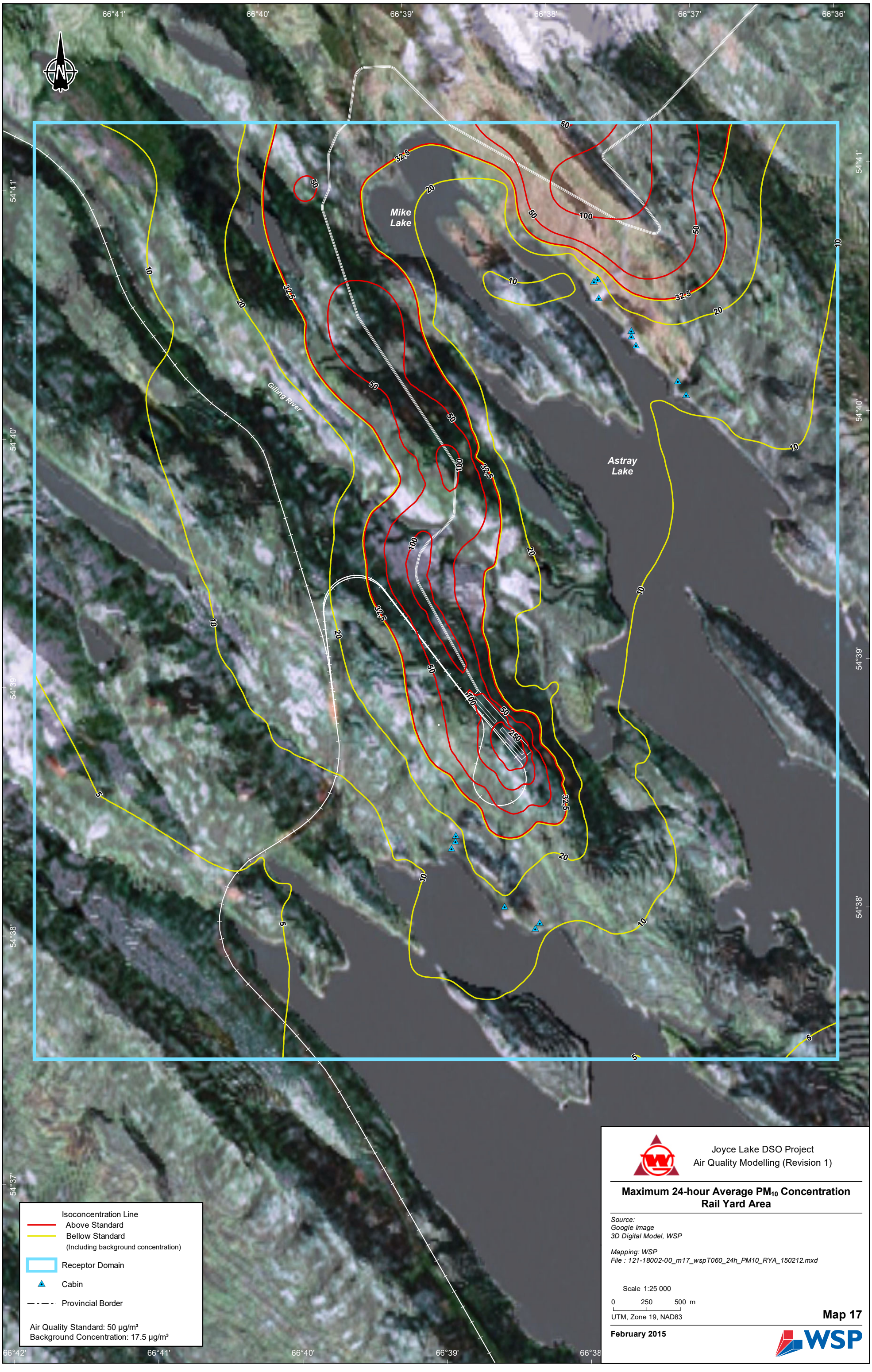
0 500 1 000 m

UTM, Zone 19, NAD83

Map 16

February 2015

WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 24-hour Average PM_{10} Concentration
Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m17_wspT060_24h_PM10_RYA_150212.mxd

Scale 1:25 000

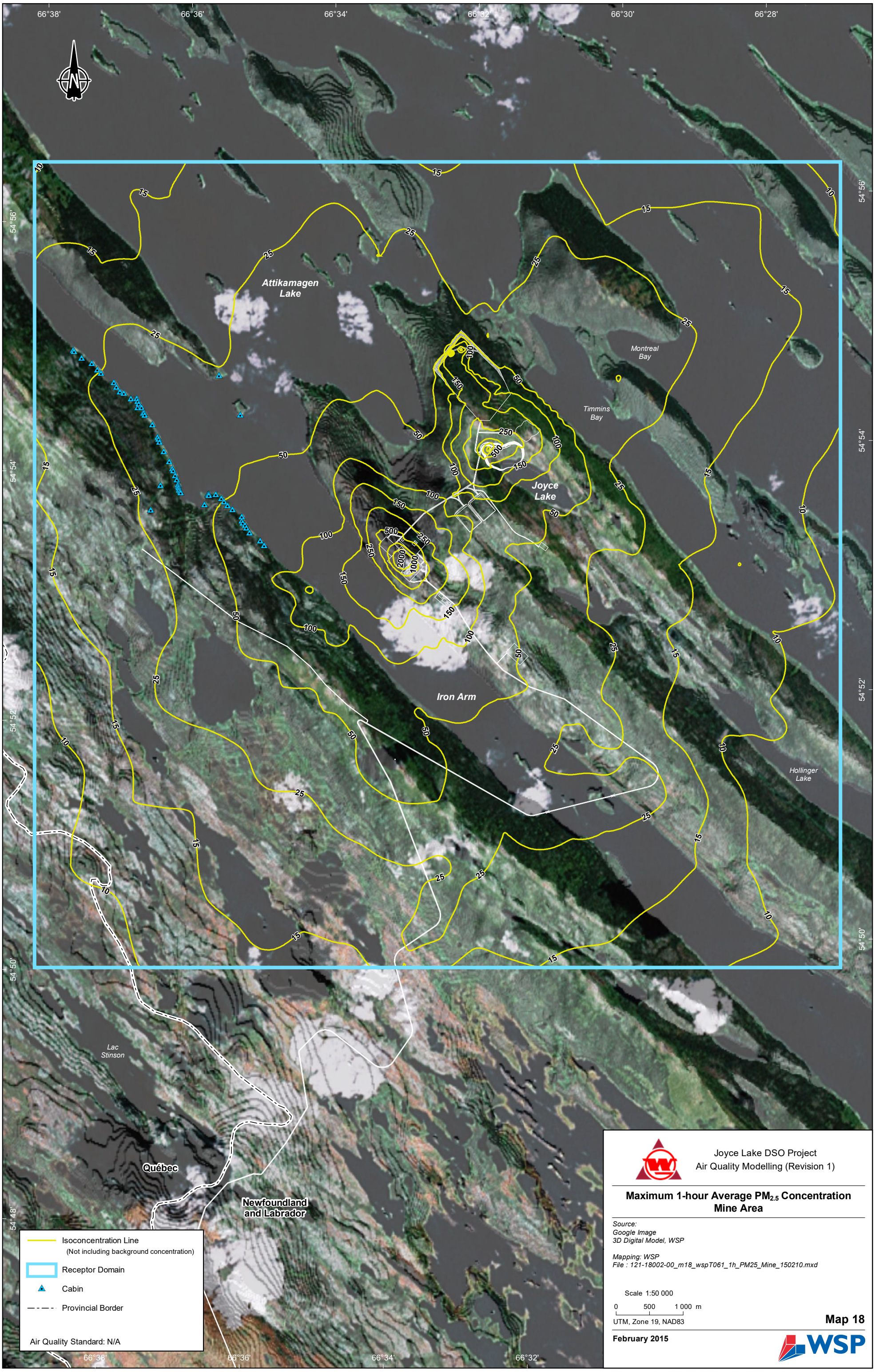
0 250 500 m

UTM, Zone 19, NAD83

Map 17

February 2015

WSP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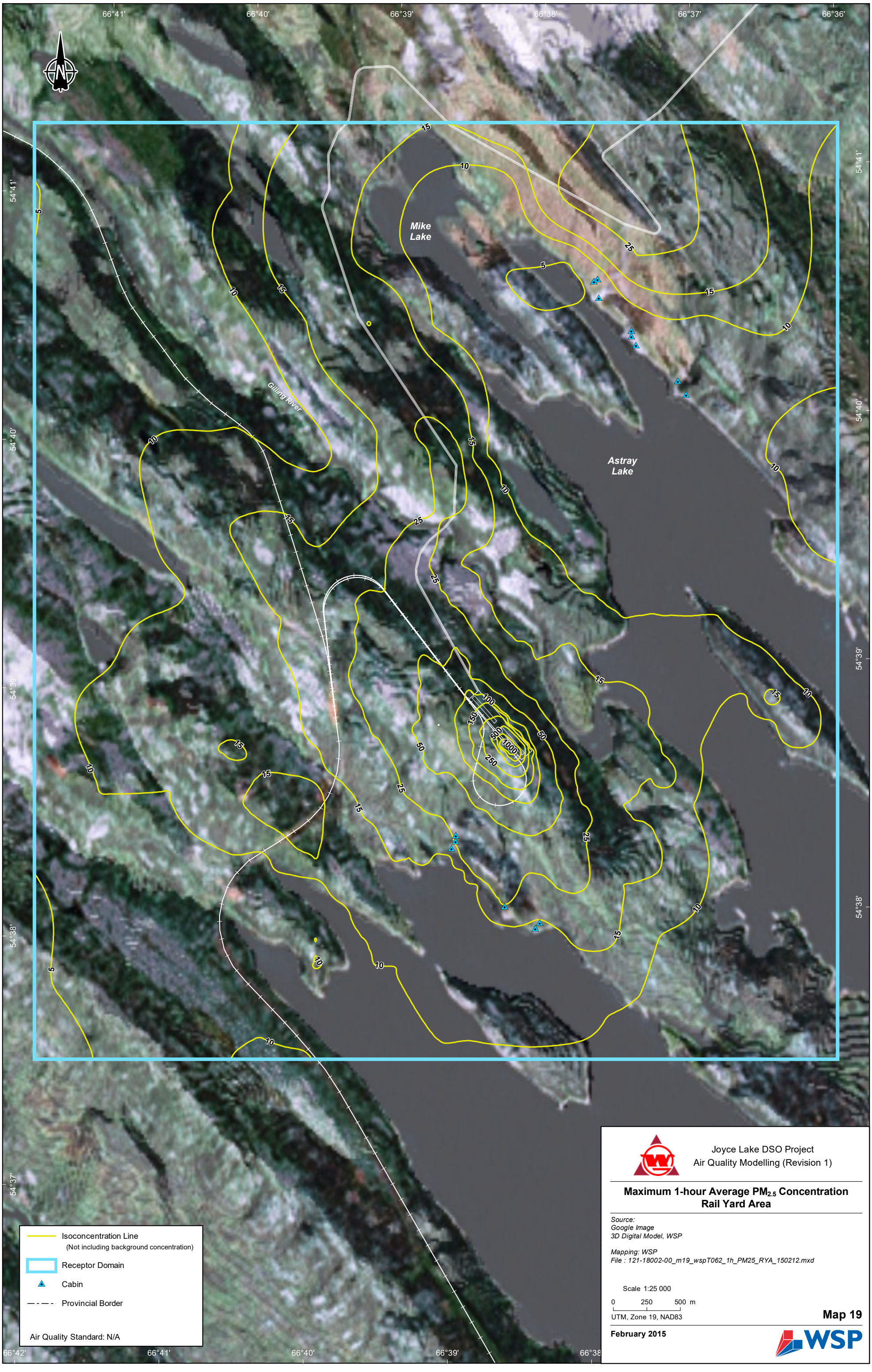
66°36'
66°34'
66°32'
66°30'
66°28'
54°56'
54°54'
54°52'
54°50'
54°48'
Attikamagen Lake
Montreal Bay
Timmins Bay
Joyce Lake
Iron Arm
Hollinger Lake
Lac Stinson
Québec
Newfoundland and Labrador
Isoconcentration Line
(Not including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: N/A
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 1-hour Average PM2.5 Concentration
Mine Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m18_wspT061_1h_PM25_Mine_150210.mxd
Scale 1:50 000
0 500 1 000 m
UTM, Zone 19, NAD83
Map 18
February 2015
WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 1-hour Average $PM_{2.5}$ Concentration
Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m19_wspT062_1h_PM25_RYA_150212.mxd

Scale 1:25 000

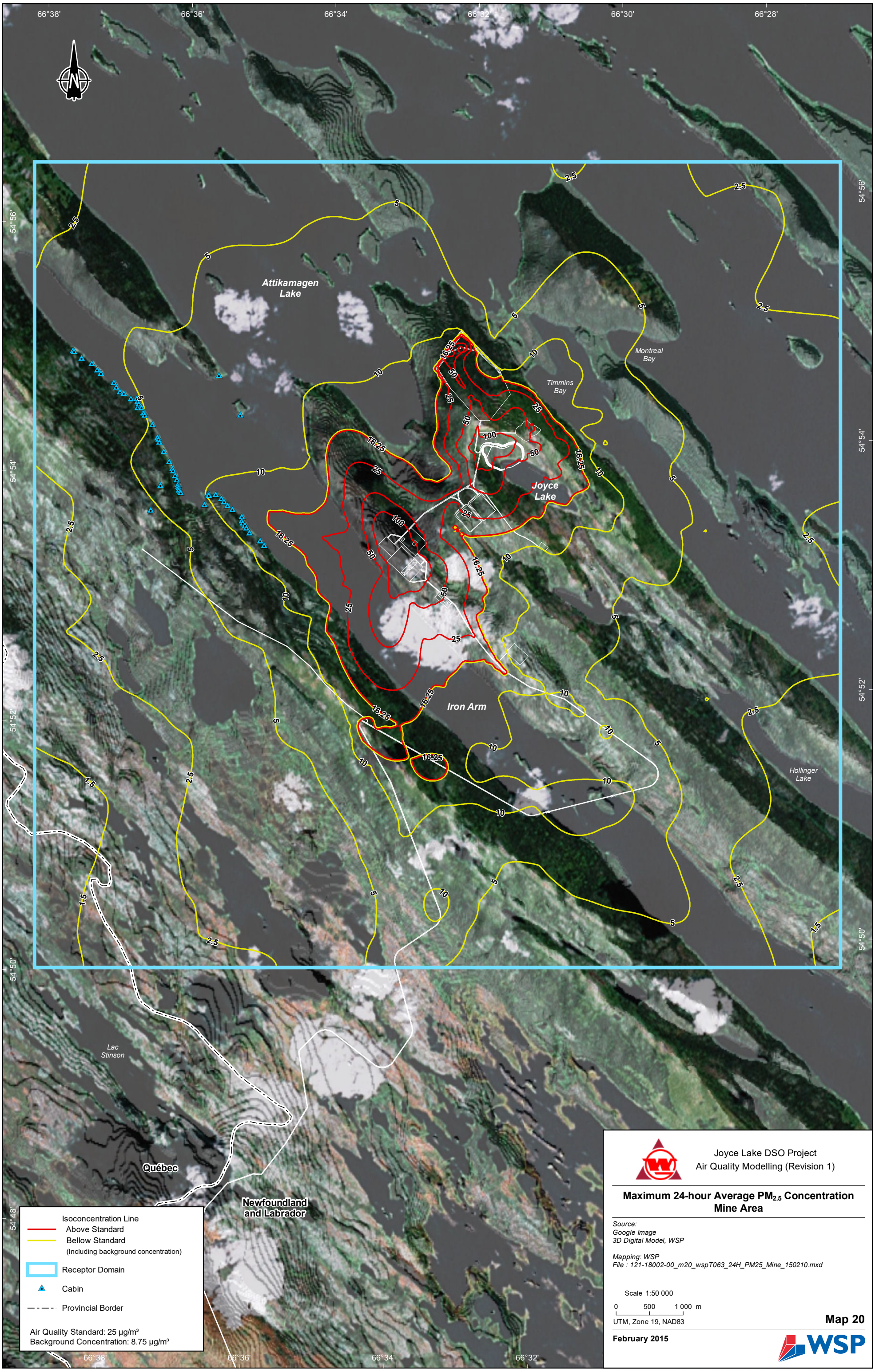
0 250 500 m

UTM, Zone 19, NAD83

Map 19

February 2015

WSP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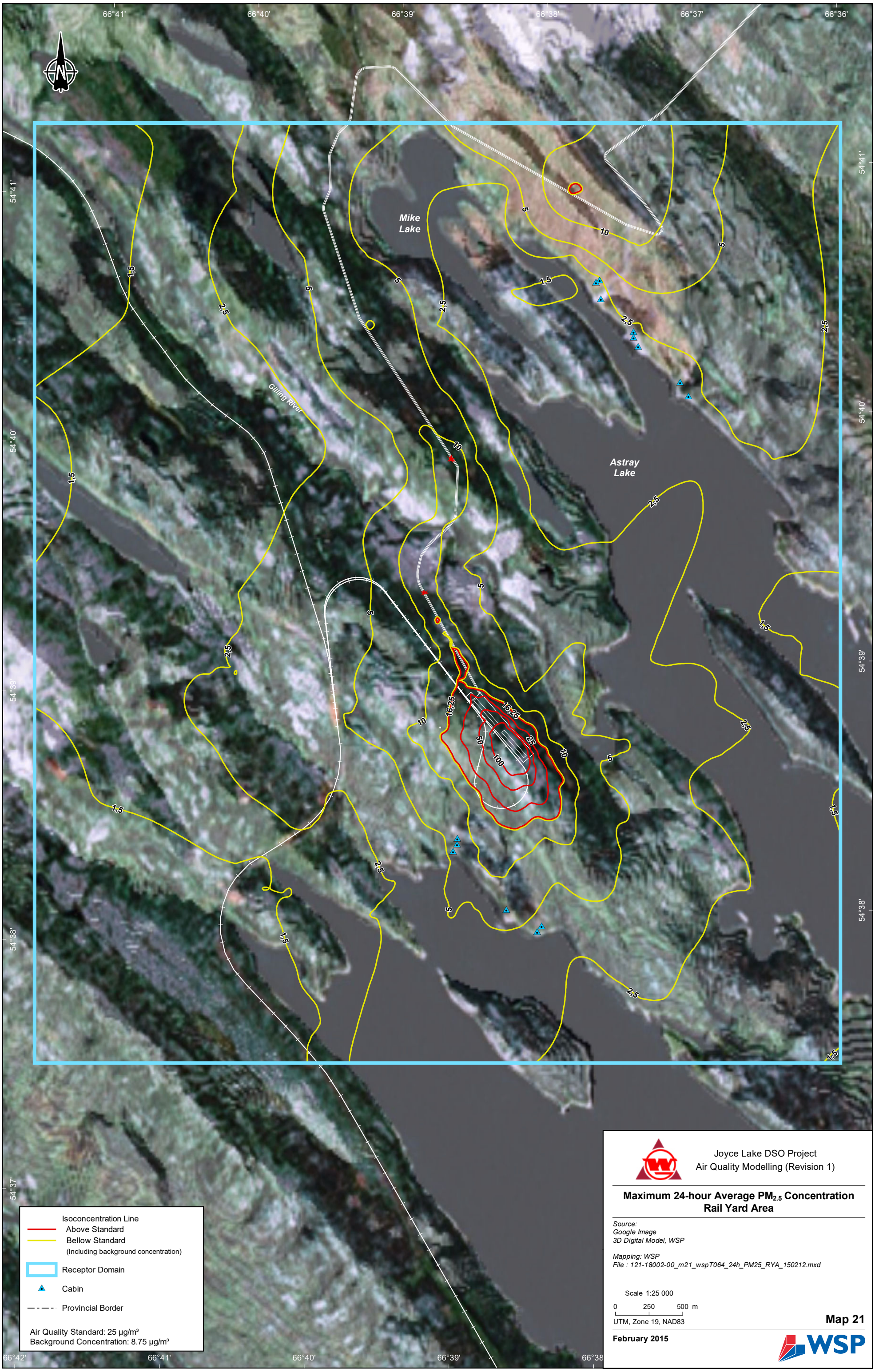
66°36'
66°34'
66°32'
66°30'
66°28'
54°56'
54°54'
54°52'
54°50'
54°48'
Attikamagen Lake
Montreal Bay
Timmins Bay
Joyce Lake
Iron Arm
Hollinger Lake
Lac Stinson
Québec
Newfoundland and Labrador
2.5
5
10
16.25
25
50
100
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 25 µg/m³
Background Concentration: 8.75 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 24-hour Average PM2.5 Concentration
Mine Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m20_wspT063_24H_PM25_Mine_150210.mxd
Scale 1:50 000
0 500 1 000 m
UTM, Zone 19, NAD83
Map 20
February 2015
WSP



Joyce Lake DSO Project
Air Quality Modelling (Revision 1)

Maximum 24-hour Average $PM_{2.5}$ Concentration
Rail Yard Area

Source:
Google Image
3D Digital Model, WSP

Mapping: WSP
File : 121-18002-00_m21_wspT064_24h_PM25_RYA_150212.mxd

Scale 1:25 000

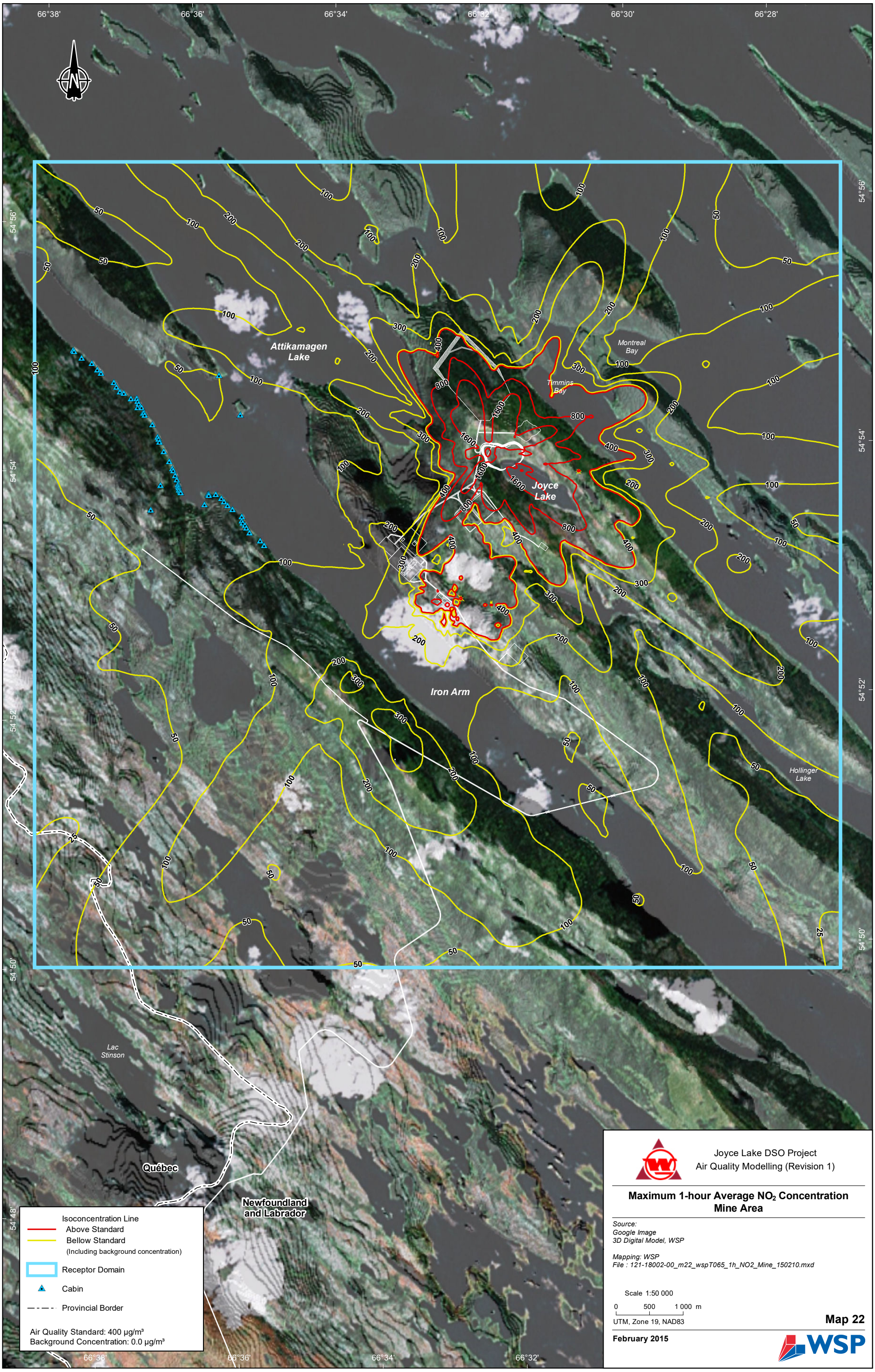
0 250 500 m

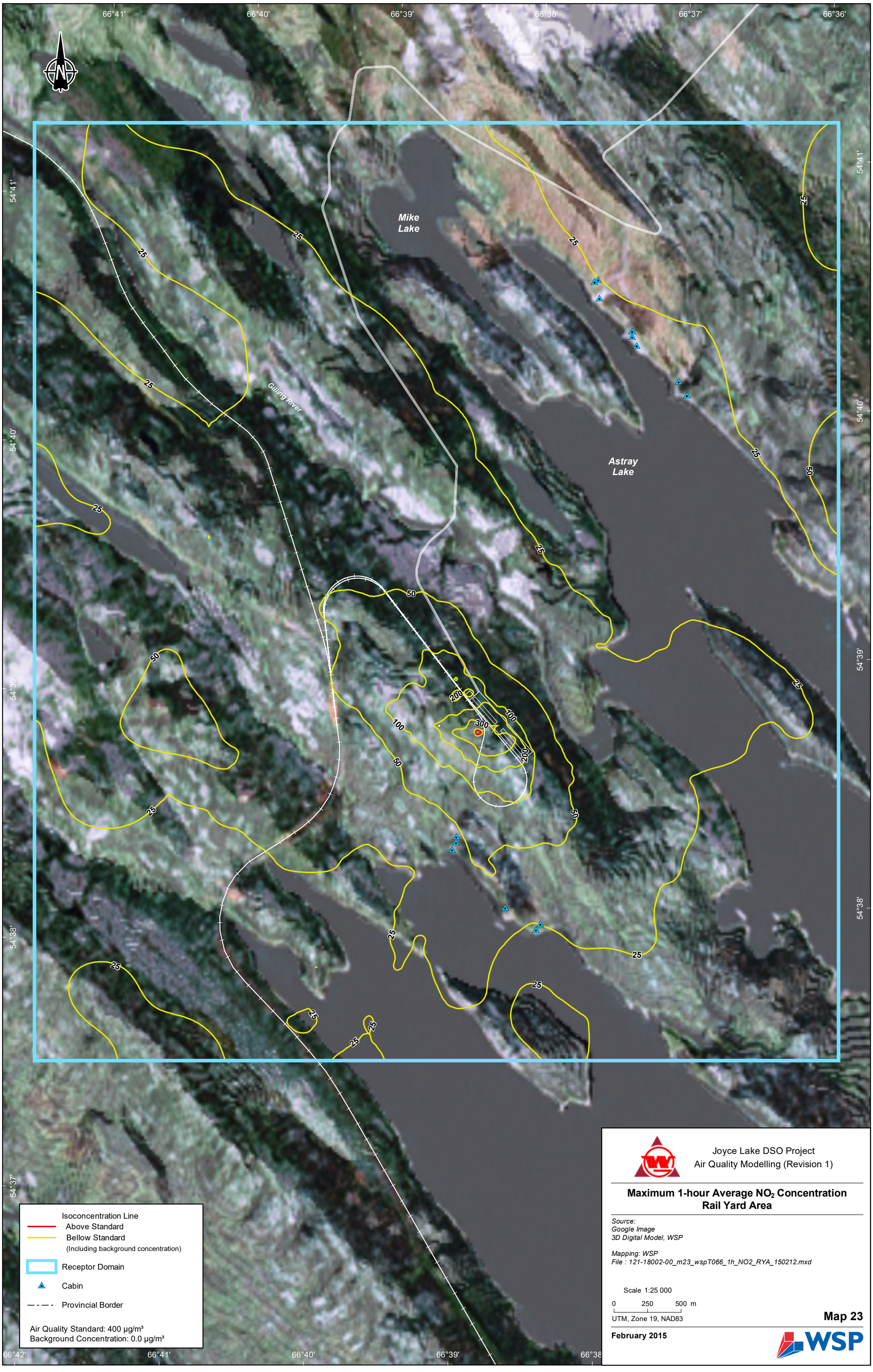
UTM, Zone 19, NAD83

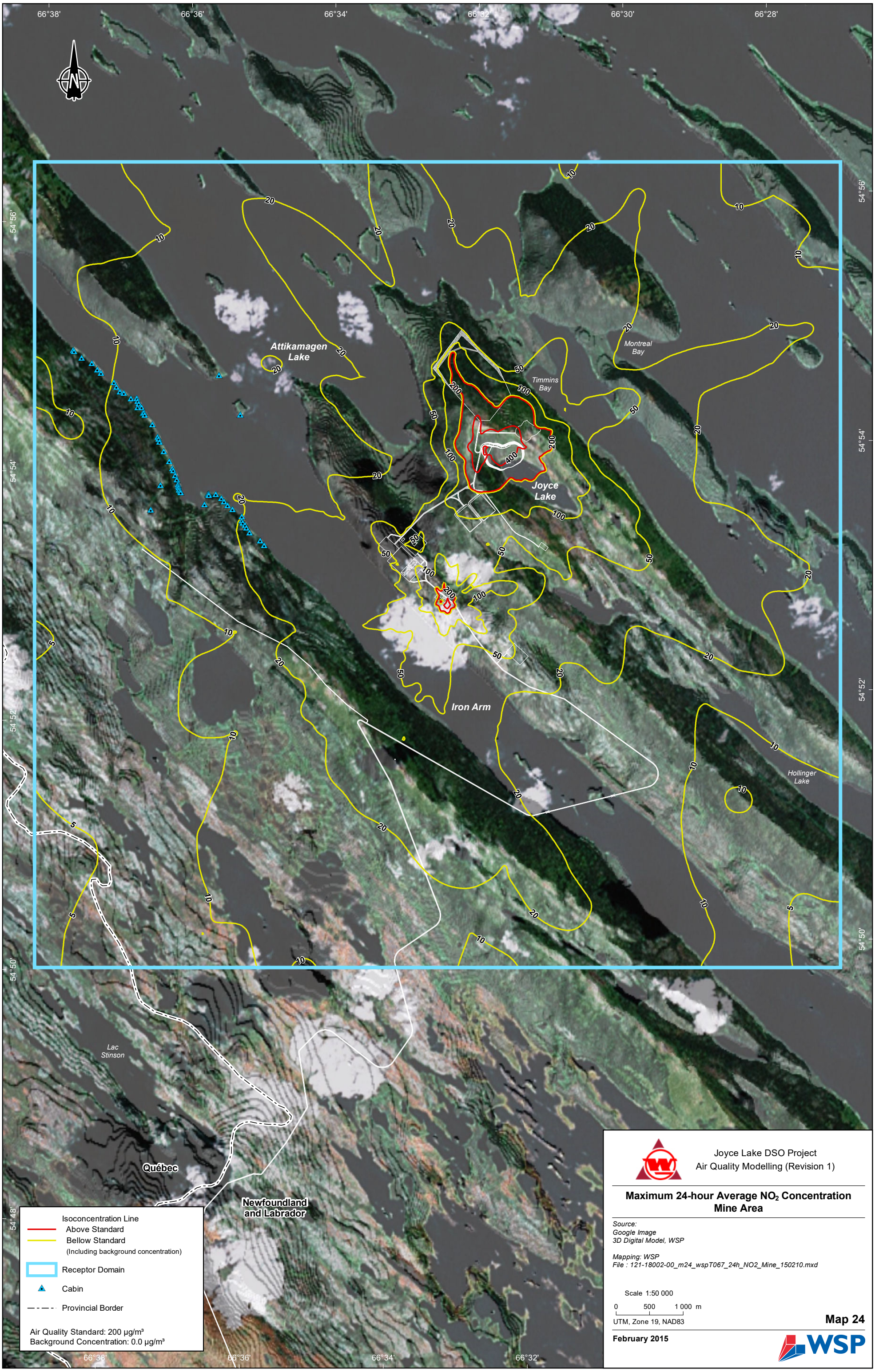
Map 21

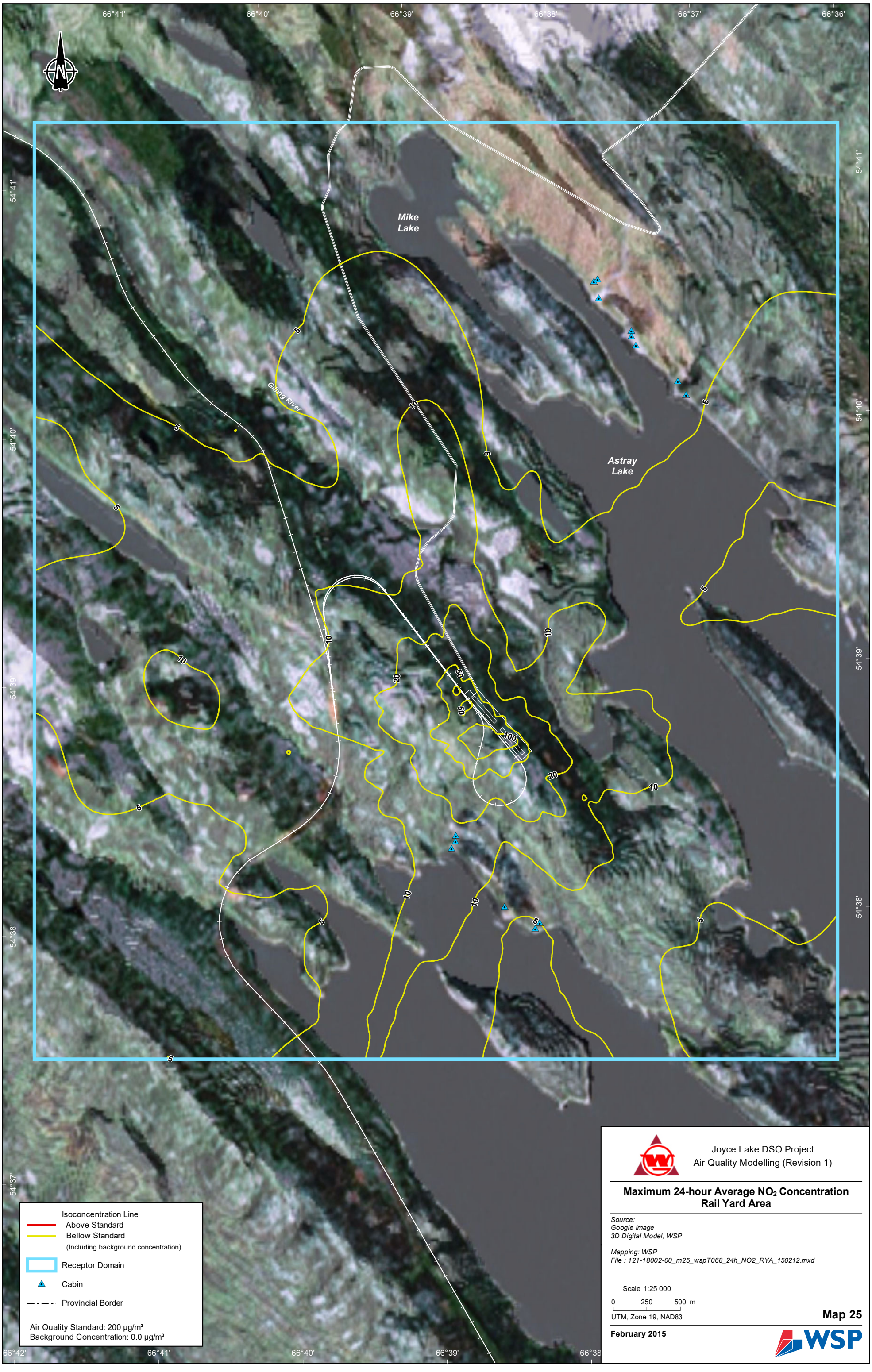
February 2015

WSP


66°38'
66°36'
66°34'
66°32'
66°30'
66°28'
54°56'
54°54'
54°52'
54°50'
54°48'
Attikamagen Lake
Montreal Bay
Timmins Bay
Joyce Lake
Iron Arm
Hollinger Lake
Lac Stinson
Québec
Newfoundland and Labrador
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 400 µg/m³
Background Concentration: 0.0 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 1-hour Average NO2 Concentration
Mine Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m22_wspT065_1h_NO2_Mine_150210.mxd
Scale 1:50 000
0 500 1 000 m
UTM, Zone 19, NAD83
Map 22
February 2015
WSP


66°41'
66°40'
66°39'
66°38'
66°37'
66°36'
54°41'
54°40'
54°39'
54°38'
54°37'
Mike Lake
Astray Lake
Gilling River
25
50
100
200
300
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 400 µg/m³
Background Concentration: 0.0 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 1-hour Average NO2 Concentration
Rail Yard Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m23_wspT066_1h_NO2_RYA_150212.mxd
Scale 1:25 000
0 250 500 m
UTM, Zone 19, NAD83
Map 23
February 2015
WSP


66°38'
66°36'
66°34'
66°32'
66°30'
66°28'
54°56'
54°54'
54°52'
54°50'
54°48'
Attikamagen Lake
Montreal Bay
Timmins Bay
Joyce Lake
Iron Arm
Hollinger Lake
Lac Stinson
Québec
Newfoundland and Labrador
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 200 µg/m³
Background Concentration: 0.0 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 24-hour Average NO2 Concentration
Mine Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m24_wspT067_24h_NO2_Mine_150210.mxd
Scale 1:50 000
0 500 1 000 m
UTM, Zone 19, NAD83
Map 24
February 2015
WSP


66°41'
66°40'
66°39'
66°38'
66°37'
66°36'
54°41'
54°40'
54°39'
54°38'
54°37'
Mike Lake
Astray Lake
Gilling River
5
10
20
50
100
Isoconcentration Line
Above Standard
Bellow Standard
(Including background concentration)
Receptor Domain
Cabin
Provincial Border
Air Quality Standard: 200 µg/m³
Background Concentration: 0.0 µg/m³
Joyce Lake DSO Project
Air Quality Modelling (Revision 1)
Maximum 24-hour Average NO_2 Concentration
Rail Yard Area
Source:
Google Image
3D Digital Model, WSP
Mapping: WSP
File : 121-18002-00_m25_wspT068_24h_NO2_RYA_150212.mxd
Scale 1:25 000
0 250 500 m
UTM, Zone 19, NAD83
Map 25
February 2015
WSP

Appendix B

CALMET INPUTS

APPENDIX B-1

CALMET INPUT - MINE DOMAIN

```
CALMET.INP      2.2             Hour Start and End Times with Seconds
Projet JoyceLake (Rev1) Mine domain 2014-12-03


---------------- Run title (3 lines) ------------------------------------------

                    CALMET MODEL CONTROL FILE
                    -------------------------

--------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names


Subgroup (a)
------------
Default Name  Type          File Name
------------  ----          ---------
GEO.DAT       input    ! GEODAT=C:\CALMET\GEOXX.DAT          !
SURF.DAT      input    ! SRFDAT=C:\CALMET\SURFXXXX.DAT       !
CLOUD.DAT     input    * CLDDAT=            *
PRECIP.DAT    input    * PRCDAT=            *
WT.DAT        input    * WTDAT=             *

CALMET.LST    output   ! METLST=C:\CALMET\CALMETXX_XXXX.LST  !
CALMET.DAT    output   ! METDAT=C:\CALMET\CALMETXX_XXXX.DAT  !
PACOUT.DAT    output   * PACDAT=            *

All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE

NUMBER OF UPPER AIR & OVERWATER STATIONS:

    Number of upper air stations (NUSTA)  No default     ! NUSTA  =  0  !
    Number of overwater met stations
                                (NOWSTA) No default     ! NOWSTA =  0  !

NUMBER OF PROGNOSTIC and IGF-CALMET FILEs:

    Number of MM4/MM5/3D.DAT files
                                (NM3D) No default       ! NM3D   =  1  !

    Number of IGF-CALMET.DAT files
                                (NIGF)   No default     ! NIGF   =  0  !

                       !END!
--------------------------------------------------------------------------------
Subgroup (b)
--------------------------------
Upper air files (one per station)
--------------------------------
Default Name  Type       File Name
------------  ----       ---------
```

```
UP1.DAT       input     1  *                        *  *END*

------------------------------------------------------------------------------
Subgroup (c)
----------------------------------------
Overwater station files (one per station)
----------------------------------------
Default Name  Type       File Name
------------  ----       ---------
SEA1.DAT       input     1  *                        *  *END*
------------------------------------------------------------------------------
Subgroup (d)
-----------------------------------------------
MM4/MM5/3D.DAT files (consecutive or overlapping)
-----------------------------------------------
Default Name  Type       File Name
------------  ----       ---------
MM51.DAT      input      1  ! M3DDAT=XXXX.m3d!    !END!

------------------------------------------------------------------------------
Subgroup (e)
-------------------------------------------------
IGF-CALMET.DAT files (consecutive or overlapping)
-------------------------------------------------
Default Name  Type       File Name
------------  ----       ---------
IGFn.DAT       input     1  *                        *  *END*
------------------------------------------------------------------------------
Subgroup (f)
----------------
Other file names
----------------

Default Name  Type       File Name
------------  ----       ---------
DIAG.DAT      input      * DIADAT=                  *
PROG.DAT      input      * PRGDAT=                  *

TEST.PRT      output     * TSTPRT=                  *
TEST.OUT      output     * TSTOUT=                  *
TEST.KIN      output     * TSTKIN=                  *
TEST.FRD      output     * TSTFRD=                  *
TEST.SLP      output     * TSTSLP=                  *
DCST.GRD      output     * DCSTGD=                  *

------------------------------------------------------------------------------
NOTES: (1) File/path names can be up to 70 characters in length
       (2) Subgroups (a) and (f) must have ONE 'END' (surrounded by
           delimiters) at the end of the group
       (3) Subgroups (b) through (e) are included ONLY if the corresponding
           number of files (NUSTA, NOWSTA, NM3D, NIGF) is not 0, and each must have
           an 'END' (surround by delimiters) at the end of EACH LINE

                          !END!
```

```
--------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

     Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX  !
                       Month  (IBMO)  --    No default   ! IBMO  =  XX  !
                       Day    (IBDY)  --    No default   ! IBDY  =  XX  !
     Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0  !
                       Second (IBSEC) --    No default   ! IBSEC =  0  !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX  !
                       Month  (IEMO)  --    No default   ! IEMO  =  XX  !
                       Day    (IEDY)  --    No default   ! IEDY  =  XX  !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0  !
                       Second (IESEC) --    No default   ! IESEC =  0  !

      UTC time zone          (ABTZ) -- No default       ! ABTZ= UTC-0500 !
         (character*8)
         PST = UTC-0800, MST = UTC-0700 , GMT = UTC-0000
         CST = UTC-0600, EST = UTC-0500

     Length of modeling time-step (seconds)
     Must divide evenly into 3600 (1 hour)
     (NSECDT)                        Default:3600     ! NSECDT =  3600  !
                                     Units: seconds

     Run type             (IRTYPE) -- Default: 1       ! IRTYPE =  1  !

        0 = Computes wind fields only
        1 = Computes wind fields and micrometeorological variables
            (u*, w*, L, zi, etc.)
        (IRTYPE must be 1 to run CALPUFF or CALGRID)

     Compute special data fields required
     by CALGRID (i.e., 3-D fields of W wind
     components and temperature)
     in additional to regular            Default: T    ! LCALGRD = T !
     fields ? (LCALGRD)
     (LCALGRD must be T to run CALGRID)

      Flag to stop run after
      SETUP phase (ITEST)             Default: 2       ! ITEST   = 2 !
      (Used to allow checking
      of the model inputs, files, etc.)
      ITEST = 1 - STOPS program after SETUP phase
      ITEST = 2 - Continues with execution of
                  COMPUTATIONAL phase after SETUP


     Test options specified to see if
     they conform to regulatory
     values? (MREG)                  No Default       ! MREG =   0   !
```

```
      0 = NO checks are made
      1 = Technical options must conform to USEPA guidance
                IMIXH    -1     Maul-Carson convective mixing height
                                over land; OCD mixing height overwater
                ICOARE   0      OCD deltaT method for overwater fluxes
                THRESHL  0.0    Threshold buoyancy flux over land needed
                                to sustain convective mixing height growth
                ISURFT   > 0    in OBS mode (pick one representative station)
                         -2     in NOOBS mode (itprog=2) (average all
                                surface prognostic temperatures to get
                                a single representative sf. temp)
                IUPT     > 0    in OBS mode (pick one representative station)
                         -2     in NOOBS mode (ITPROG>0) (average all surface
                                prognostic temperatures to get a single
                                representative sf. temp)
                IZICRLX  0      Do NOT use convective mixing height relaxation
                                to equilibrium value

!END!

------------------------------------------------------------------------------

INPUT GROUP: 2 -- Map Projection and Grid control parameters
--------------

     Projection for all (X,Y):
     -------------------------

     Map projection
     (PMAP)                     Default: UTM    ! PMAP = UTM  !

         UTM :  Universal Transverse Mercator
         TTM :  Tangential Transverse Mercator
         LCC :  Lambert Conformal Conic
          PS :  Polar Stereographic
          EM :  Equatorial Mercator
        LAZA :  Lambert Azimuthal Equal Area

     False Easting and Northing (km) at the projection origin
     (Used only if PMAP= TTM, LCC, or LAZA)
     (FEAST)                    Default=0.0     * FEAST  = 0.000  *
     (FNORTH)                   Default=0.0     * FNORTH = 0.000  *

     UTM zone (1 to 60)
     (Used only if PMAP=UTM)
     (IUTMZN)                   No Default      ! IUTMZN =  19 !

     Hemisphere for UTM projection?
     (Used only if PMAP=UTM)
     (UTMHEM)                   Default: N      ! UTMHEM =   N !
         N   :  Northern hemisphere projection
         S   :  Southern hemisphere projection

     Latitude and Longitude (decimal degrees) of projection origin
     (Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
```

```
(RLAT0)                    No Default      * RLAT0 =  40N  *
(RLON0)                    No Default      * RLON0 =  90W  *

    TTM :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    LCC :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    PS  :  RLON0 identifies central (grid N/S) meridian of projection
           RLAT0 selected for convenience
    EM  :  RLON0 identifies central meridian of projection
           RLAT0 is REPLACED by 0.0N (Equator)
    LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
           RLAT0 identifies latitude of tangent-point of mapping plane

Matching parallel(s) of latitude (decimal degrees) for projection
(Used only if PMAP= LCC or PS)
(XLAT1)                    No Default      * XLAT1 =  30N  *
(XLAT2)                    No Default      * XLAT2 =  60N  *

    LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
    PS  :  Projection plane slices through Earth at XLAT1
           (XLAT2 is not used)

----------
Note:  Latitudes and longitudes should be positive, and include a
       letter N,S,E, or W indicating north or south latitude, and
       east or west longitude.  For example,
       35.9  N Latitude  =  35.9N
       118.7 E Longitude = 118.7E


Datum-region
------------

The Datum-Region for the coordinates is identified by a character
string.  Many mapping products currently available use the model of the
Earth known as the World Geodetic System 1984 (WGS-84).  Other local
models may be in use, and their selection in CALMET will make its output
consistent with local mapping products.  The list of Datum-Regions with
official transformation parameters is provided by the National Imagery and
Mapping Agency (NIMA).

NIMA Datum - Regions(Examples)
------------------------------------------------------------------------------
WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
NAR-B     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CANADA (NAD83)
NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
NWS-84    NWS 6370KM Radius, Sphere
ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

NOTE_PL
For all NIMA Datum, see MMS2006_Volume2_CALMET_Preprocessors.pdf, B.4 NIMA
   Datum Reference Information
```

```
     Datum-region for output coordinates
     (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


     Horizontal grid definition:
     ---------------------------

     Rectangular grid defined for projection PMAP,
     with X the Easting and Y the Northing coordinate

           No. X grid cells (NX)      No default     ! NX =   140  !
           No. Y grid cells (NY)      No default     ! NY =   140  !

     Grid spacing (DGRIDKM)           No default     ! DGRIDKM = 0.1 !
                                      Units: km

     Reference grid coordinate of
     SOUTHWEST corner of grid cell (1,1)

        X coordinate (XORIGKM)        No default     ! XORIGKM =  650.300 !
        Y coordinate (YORIGKM)        No default     ! YORIGKM = 6077.800 !
                                      Units: km


     Vertical grid definition:
     -------------------------

        No. of vertical layers (NZ)   No default     ! NZ =  10  !

        Cell face heights in arbitrary
        vertical grid (ZFACE(NZ+1))   No defaults
                                      Units: m
        ! ZFACE = 0.,20.,40.,80.,160.,300.,600.,1000.,1500.,2000.,2500. !

!END!


------------------------------------------------------------------------------

INPUT GROUP: 3 -- Output Options
--------------


    DISK OUTPUT OPTION

       Save met. fields in an unformatted
       output file ?              (LSAVE)  Default: T     ! LSAVE  =  T !
       (F = Do not save, T = Save)

       Type of unformatted output file:
       (IFORMO)                            Default: 1     ! IFORMO =  1 !

            1 = CALPUFF/CALGRID type file (CALMET.DAT)
            2 = MESOPUFF-II type file     (PACOUT.DAT)
```

```
LINE PRINTER OUTPUT OPTIONS:

   Print met. fields ?  (LPRINT)       Default: F     ! LPRINT =  F !
   (F = Do not print, T = Print)
   (NOTE: parameters below control which
          met. variables are printed)

   Print interval
   (IPRINF) in hours                   Default: 1     ! IPRINF =  1 !
   (Meteorological fields are printed
    every  1  hours)


   Specify which layers of U, V wind component
   to print (IUVOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T)        Defaults: NZ*0
   ! IUVOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !
   ----------------------


   Specify which levels of the W wind component to print
   (NOTE: W defined at TOP cell face --  10  values)
   (IWOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T & LCALGRD=T)
   ----------------------------------
                                       Defaults: NZ*0
    ! IWOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !


   Specify which levels of the 3-D temperature field to print
   (ITOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T & LCALGRD=T)
   ----------------------------------
                                       Defaults: NZ*0
    ! ITOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !

   Specify which meteorological fields
   to print
   (used only if LPRINT=T)             Defaults: 0 (all variables)
   ----------------------


     Variable            Print ?
                     (0 = do not print,
                      1 = print)
     --------        ------------------

  !  STABILITY  =           0           ! - PGT stability class
  !  USTAR      =           0           ! - Friction velocity
  !  MONIN      =           0           ! - Monin-Obukhov length
  !  MIXHT      =           0           ! - Mixing height
```

```
!  WSTAR      =           0           ! - Convective velocity scale
!  PRECIP     =           0           ! - Precipitation rate
!  SENSHEAT   =           0           ! - Sensible heat flux
!  CONVZI     =           0           ! - Convective mixing ht.


 Testing and debug print options for micrometeorological module

    Print input meteorological data and
    internal variables (LDB)         Default: F       ! LDB = F !
    (F = Do not print, T = print)
    (NOTE: this option produces large amounts of output)

    First time step for which debug data
    are printed (NN1)                Default: 1       ! NN1 =  1  !

    Last time step for which debug data
    are printed (NN2)                Default: 1       ! NN2 =  1  !

    Print distance to land
    internal variables (LDBCST)      Default: F       ! LDBCST = F !
    (F = Do not print, T = print)
    (Output in .GRD file DCST.GRD, defined in input group 0)

 Testing and debug print options for wind field module
 (all of the following print options control output to
  wind field module's output files: TEST.PRT, TEST.OUT,
  TEST.KIN, TEST.FRD, and TEST.SLP)

    Control variable for writing the test/debug
    wind fields to disk files (IOUTD)
    (0=Do not write, 1=write)        Default: 0       ! IOUTD =  0  !

    Number of levels, starting at the surface,
    to print (NZPRN2)                Default: 1       ! NZPRN2 =  1  !

    Print the INTERPOLATED wind components ?
    (IPR0) (0=no, 1=yes)             Default: 0       !  IPR0 =  0  !

    Print the TERRAIN ADJUSTED surface wind
    components ?
    (IPR1) (0=no, 1=yes)             Default: 0       !  IPR1 =  0  !

    Print the SMOOTHED wind components and
    the INITIAL DIVERGENCE fields ?
    (IPR2) (0=no, 1=yes)             Default: 0       !  IPR2 =  0  !

    Print the FINAL wind speed and direction
    fields ?
    (IPR3) (0=no, 1=yes)             Default: 0       !  IPR3 =  0  !

    Print the FINAL DIVERGENCE fields ?
    (IPR4) (0=no, 1=yes)             Default: 0       !  IPR4 =  0  !

    Print the winds after KINEMATIC effects
```

```
          are added ?
          (IPR5) (0=no, 1=yes)             Default: 0       !  IPR5 =  0  !

          Print the winds after the FROUDE NUMBER
          adjustment is made ?
          (IPR6) (0=no, 1=yes)             Default: 0       !  IPR6 =  0  !

          Print the winds after SLOPE FLOWS
          are added ?
          (IPR7) (0=no, 1=yes)             Default: 0       !  IPR7 =  0  !

          Print the FINAL wind field components ?
          (IPR8) (0=no, 1=yes)             Default: 0       !  IPR8 =  0  !

!END!


-------------------------------------------------------------------------------

INPUT GROUP: 4 -- Meteorological data options
--------------

    NO OBSERVATION MODE              (NOOBS)  Default: 0     ! NOOBS  =  1  !
          0 = Use surface, overwater, and upper air stations
          1 = Use surface and overwater stations (no upper air observations)
              Use MM4/MM5/3D for upper air data
          2 = No surface, overwater, or upper air observations
              Use MM4/MM5/3D for surface, overwater, and upper air data

    NUMBER OF SURFACE & PRECIP. METEOROLOGICAL STATIONS

       Number of surface stations   (NSSTA)  No default     ! NSSTA  =  1  !

       Number of precipitation stations
       (NPSTA=-1: flag for use of MM5/3D precip data)
                                    (NPSTA)  No default     ! NPSTA  =  0  !

    CLOUD DATA OPTIONS
       Output option - output a CLOUD.DAT file (yes or no)
       0=no, 1=yes
                                  (ICLDOUT) Default:999      ! ICLDOUT = 0  !

       Method to compute cloud fields:
                                   (MCLOUD)  Default: 999     ! MCLOUD =  1  !
       MCLOUD = 1 - Clouds data generated from surface observations
       MCLOUD = 2 - Gridded CLOUD.DAT read from CLOUD.DAT file (no output
                    is possible since already exist)
       MCLOUD = 3 - Gridded cloud cover from Prognostic Rel. Humidity
                    at 850mb (Teixera)
       MCLOUD = 4 - Gridded cloud cover from Prognostic Rel. Humidity
                    at all levels (MM5toGrads algorithm)

    FILE FORMATS

       Surface meteorological data file format
```

```
                                (IFORMS)  Default: 2     ! IFORMS =  2  !
      (1 = unformatted (e.g., SMERGE output))
      (2 = formatted   (free-formatted user input))

      Precipitation data file format
                                (IFORMP)  Default: 2     ! IFORMP =  2  !
      (1 = unformatted (e.g., PMERGE output))
      (2 = formatted   (free-formatted user input))

      Cloud data file format
                                (IFORMC)  Default: 2     ! IFORMC =  2  !
      (1 = unformatted - CALMET unformatted output)
      (2 = formatted   - free-formatted CALMET output or user input)

!END!


--------------------------------------------------------------------------------

INPUT GROUP: 5 -- Wind Field Options and Parameters
--------------


    WIND FIELD MODEL OPTIONS
      Model selection variable (IWFCOD)     Default: 1      ! IWFCOD =  1  !
         0 = Objective analysis only
         1 = Diagnostic wind module

      Compute Froude number adjustment
      effects ? (IFRADJ)                    Default: 1      ! IFRADJ =  1  !
      (0 = NO, 1 = YES)

      Compute kinematic effects ? (IKINE)   Default: 0      ! IKINE  =  0  !
      (0 = NO, 1 = YES)

      Use O'Brien procedure for adjustment
      of the vertical velocity ? (IOBR)     Default: 0      ! IOBR   =  0  !
      (0 = NO, 1 = YES)

      Compute slope flow effects ? (ISLOPE) Default: 1      ! ISLOPE =  1  !
      (0 = NO, 1 = YES)

      Extrapolate surface wind observations
      to upper layers ? (IEXTRP)            Default: -4     ! IEXTRP = -1  !
      (1 = no extrapolation is done,
       2 = power law extrapolation used,
       3 = user input multiplicative factors
           for layers 2 - NZ used (see FEXTRP array)
       4 = similarity theory used
       -1, -2, -3, -4 = same as above except layer 1 data
           at upper air stations are ignored

      Extrapolate surface winds even
      if calm? (ICALM)                      Default: 0      ! ICALM  =  0  !
      (0 = NO, 1 = YES)
```

```
   Layer-dependent biases modifying the weights of
   surface and upper air stations (BIAS(NZ))
     -1<=BIAS<=1
   Negative BIAS reduces the weight of upper air stations
     (e.g. BIAS=-0.1 reduces the weight of upper air stations
   by 10%; BIAS= -1, reduces their weight by 100 %)
   Positive BIAS reduces the weight of surface stations
     (e.g. BIAS= 0.2 reduces the weight of surface stations
   by 20%; BIAS=1 reduces their weight by 100%)
   Zero BIAS leaves weights unchanged (1/R**2 interpolation)
   Default: NZ*0
                           ! BIAS =  -1, +1, +1, +1, +1, +1, +1, +1, +1, +1 !
   NOTE_PL
     BIAS not used for NOOBS = 1

   Minimum distance from nearest upper air station
   to surface station for which extrapolation
   of surface winds at surface station will be allowed
   (RMIN2: Set to -1 for IEXTRP = 4 or other situations
    where all surface stations should be extrapolated)
                                        Default: 4.     ! RMIN2 = -1.0 !

   Use gridded prognostic wind field model
   output fields as input to the diagnostic
   wind field model (IPROG)             Default: 0      ! IPROG =  14  !
   (0 = No, [IWFCOD = 0 or 1]
    1 = Yes, use CSUMM prog. winds as Step 1 field, [IWFCOD = 0]
    2 = Yes, use CSUMM prog. winds as initial guess field [IWFCOD = 1]
    3 = Yes, use winds from MM4.DAT file as Step 1 field [IWFCOD = 0]
    4 = Yes, use winds from MM4.DAT file as initial guess field [IWFCOD = 1]
    5 = Yes, use winds from MM4.DAT file as observations [IWFCOD = 1]
    13 = Yes, use winds from MM5/3D.DAT file as Step 1 field [IWFCOD = 0]
    14 = Yes, use winds from MM5/3D.DAT file as initial guess field [IWFCOD = 1]
    15 = Yes, use winds from MM5/3D.DAT file as observations [IWFCOD = 1]

   Timestep (seconds) of the prognostic
   model input data   (ISTEPPGS)        Default: 3600   ! ISTEPPGS = 10800 !

   Use coarse CALMET fields as initial guess fields (IGFMET)
   (overwrites IGF based on prognostic wind fields if any)
                                        Default: 0      ! IGFMET =  0  !

RADIUS OF INFLUENCE PARAMETERS

   Use varying radius of influence      Default: F      ! LVARY =  F !
   (if no stations are found within RMAX1,RMAX2,
    or RMAX3, then the closest station will be used)

   Maximum radius of influence over land
   in the surface layer (RMAX1)         No default      ! RMAX1 = 40. !
                                        Units: km
   Maximum radius of influence over land
   aloft (RMAX2)                        No default      ! RMAX2 = 550. !
                                        Units: km
```

```
      Maximum radius of influence over water
      (RMAX3)                              No default      ! RMAX3 = 300. !
                                           Units: km


   OTHER WIND FIELD INPUT PARAMETERS

      Minimum radius of influence used in
      the wind field interpolation (RMIN)  Default: 0.1    ! RMIN = 0.1 !
                                           Units: km
      Radius of influence of terrain
      features (TERRAD)                    No default      ! TERRAD = 10. !

                                           Units: km
      Relative weighting of the first
      guess field and observations in the
      SURFACE layer (R1)                   No default      ! R1 = 3. !
      (R1 is the distance from an          Units: km
      observational station at which the
      observation and first guess field are
      equally weighted)

      Relative weighting of the first
      guess field and observations in the
      layers ALOFT (R2)                    No default      ! R2 = 30. !
      (R2 is applied in the upper layers   Units: km
      in the same manner as R1 is used in
      the surface layer).

      Relative weighting parameter of the
      prognostic wind field data (RPROG)   No default      ! RPROG = 0. !
      (Used only if IPROG = 1)             Units: km
      -----------------------

      Maximum acceptable divergence in the
      divergence minimization procedure
      (DIVLIM)                             Default: 5.E-6  ! DIVLIM= 5.0E-06 !

      Maximum number of iterations in the
      divergence min. procedure (NITER)    Default: 50     ! NITER =  50  !

      Number of passes in the smoothing
      procedure (NSMTH(NZ))
      NOTE: NZ values must be entered
           Default: 2,(mxnz-1)*4 ! NSMTH =
 2 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4  !

      Maximum number of stations used in
      each layer for the interpolation of
      data to a grid point (NINTR2(NZ))
      NOTE: NZ values must be entered      Default: 99.    ! NINTR2 =
 99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99  !

      Critical Froude number (CRITFN)      Default: 1.0    ! CRITFN = 1. !
```

```
   Empirical factor controlling the
   influence of kinematic effects
   (ALPHA)                              Default: 0.1    ! ALPHA = 0.1 !

   Multiplicative scaling factor for
   extrapolation of surface observations
   to upper layers (FEXTR2(NZ))         Default: NZ*0.0
   ! FEXTR2 = 0., 0., 0., 0., 0., 0., 0., 0., 0., 0. !
   (Used only if IEXTRP = 3 or -3)


BARRIER INFORMATION

   Number of barriers to interpolation
   of the wind fields (NBAR)            Default: 0      ! NBAR =  0  !

   Level (1 to NZ) up to which barriers
   apply (KBAR)                         Default: NZ     ! KBAR =  10  !

   THE FOLLOWING 4 VARIABLES ARE INCLUDED
   ONLY IF NBAR > 0
   NOTE: NBAR values must be entered    No defaults
         for each variable              Units: km

      X coordinate of BEGINNING
      of each barrier (XBBAR(NBAR))     ! XBBAR = 0. !
      Y coordinate of BEGINNING
      of each barrier (YBBAR(NBAR))     ! YBBAR = 0. !

      X coordinate of ENDING
      of each barrier (XEBAR(NBAR))     ! XEBAR = 0. !
      Y coordinate of ENDING
      of each barrier (YEBAR(NBAR))     ! YEBAR = 0. !


DIAGNOSTIC MODULE DATA INPUT OPTIONS

   Surface temperature (IDIOPT1)        Default: 0      ! IDIOPT1 =  0  !
      0 = Compute internally from
          hourly surface observations or prognostic fields
      1 = Read preprocessed values from
          a data file (DIAG.DAT)

      Surface met. station to use for
      the surface temperature (ISURFT)  Default: -1    ! ISURFT = -1  !
      (Must be a value from 1 to NSSTA
       or -1 to use 2-D spatially varying
          surface temperatures).
       or -2 to use a domain-average prognostic
       lapse rate (only with ITPROG=2)
      (Used only if IDIOPT1 = 0)
      -------------------------

   Temperature lapse rate used in the   Default: 0     ! IDIOPT2 =  0  !
      computation of terrain-induced
```

```
   circulations (IDIOPT2)
   0 = Compute internally from (at least) twice-daily
       upper air observations or prognostic fields
   1 = Read hourly preprocessed values
       from a data file (DIAG.DAT)

   Upper air station to use for
   the domain-scale lapse rate (IUPT) Default: -1    ! IUPT   = -1  !
   (Must be a value from 1 to NUSTA
    or -1 to use 2-D spatially varying lapse rate)
    or -2 to use a domain-average prognostic
       lapse rate (only with ITPROG>0)
   (Used only if IDIOPT2 = 0)
   --------------------------

   Depth through which the domain-scale
   lapse rate is computed (ZUPT)      Default: 200.  ! ZUPT = 200. !
   (Used only if IDIOPT2 = 0)         Units: meters
   --------------------------

Initial Guess Field Winds
(IDIOPT3)                             Default: 0     ! IDIOPT3 =  0  !
   0 = Compute internally from
       observations or prognostic wind fields
   1 = Read hourly preprocessed domain-average wind values
       from a data file (DIAG.DAT)

   Upper air station to use for
   the initial guess winds (IUPWND)   Default: -1    ! IUPWND = -1  !
   (Must be a value from -1 to NUSTA, with
   -1 indicating 3-D initial guess fields,
   and IUPWND>1 domain-scaled (i.e. constant) IGF
   (Used only if IDIOPT3 = 0 and noobs=0)
   ---------------------------------------

   Bottom and top of layer through
   which the domain-scale winds
   are computed
   (ZUPWND(1), ZUPWND(2))        Defaults: 1., 1000. ! ZUPWND= 1., 1000. !
   (Used only if IDIOPT3 = 0, NOOBS>0 and IUPWND>0)    Units: meters
   --------------------------

Observed surface wind components
for wind field module (IDIOPT4)  Default: 0     ! IDIOPT4 =  0  !
   0 = Read WS, WD from a surface
       data file (SURF.DAT)
   1 = Read hourly preprocessed U, V from
       a data file (DIAG.DAT)

Observed upper air wind components
for wind field module (IDIOPT5)  Default: 0     ! IDIOPT5 =  0  !
   0 = Read WS, WD from an upper
       air data file (UP1.DAT, UP2.DAT, etc.)
   1 = Read hourly preprocessed U, V from
       a data file (DIAG.DAT)
```

```
      LAKE BREEZE INFORMATION

         Use Lake Breeze Module  (LLBREZE)
                                      Default: F      ! LLBREZE = F !

          Number of lake breeze regions (NBOX)            ! NBOX =  0  !

       X Grid line 1 defining the region of interest
                                                        ! XG1 = 0. !
       X Grid line 2 defining the region of interest
                                                        ! XG2 = 0. !
       Y Grid line 1 defining the region of interest
                                                        ! YG1 = 0. !
       Y Grid line 2 defining the region of interest
                                                        ! YG2 = 0. !

        X Point defining the coastline (Straight line)
                  (XBCST)  (KM)   Default: none    ! XBCST = 0. !

        Y Point defining the coastline (Straight line)
                  (YBCST)  (KM)   Default: none    ! YBCST = 0. !

        X Point defining the coastline (Straight line)
                  (XECST)  (KM)   Default: none    ! XECST = 0. !

        Y Point defining the coastline (Straight line)
                  (YECST)  (KM)   Default: none    ! YECST = 0. !


      Number of stations in the region     Default: none ! NLB =  0 !
      (Surface stations + upper air stations)

      Station ID's  in the region   (METBXID(NLB))
      (Surface stations first, then upper air stations)
        ! METBXID =  0 !

!END!


------------------------------------------------------------------------------

INPUT GROUP: 6 -- Mixing Height, Temperature and Precipitation Parameters
--------------

    EMPIRICAL MIXING HEIGHT CONSTANTS

      Neutral, mechanical equation
      (CONSTB)                          Default: 1.41   ! CONSTB = 1.41 !
      Convective mixing ht. equation
      (CONSTE)                          Default: 0.15   ! CONSTE = 0.15 !
      Stable mixing ht. equation
      (CONSTN)                          Default: 2400.  ! CONSTN = 2400.!
      Overwater mixing ht. equation
      (CONSTW)                          Default: 0.16   ! CONSTW = 0.16 !
```

```
   Absolute value of Coriolis
   parameter (FCORIOL)                  Default: 1.E-4  ! FCORIOL = 1.0E-04!
                                        Units: (1/s)

SPATIAL AVERAGING OF MIXING HEIGHTS

   Conduct spatial averaging
   (IAVEZI)  (0=no, 1=yes)              Default: 1      ! IAVEZI =  1  !

   Max. search radius in averaging
   process (MNMDAV)                     Default: 1      ! MNMDAV =  1  !
                                        Units: Grid
                                               cells
   Half-angle of upwind looking cone
   for averaging (HAFANG)               Default: 30.    ! HAFANG = 30. !
                                        Units: deg.
   Layer of winds used in upwind
   averaging (ILEVZI)                   Default: 1      ! ILEVZI =  1  !
   (must be between 1 and NZ)


CONVECTIVE MIXING HEIGHT OPTIONS:
   Method to compute the convective
   mixing height(IMIHXH)                Default: 1      ! IMIXH =  1  !
       1: Maul-Carson for land and water cells
      -1: Maul-Carson for land cells only -
          OCD mixing height overwater
       2: Batchvarova and Gryning for land and water cells
      -2: Batchvarova and Gryning for land cells only
          OCD mixing height overwater

   Threshold buoyancy flux required to
   sustain convective mixing height growth
   overland (THRESHL)                   Default: 0.0    ! THRESHL = 0. !
   (expressed as a heat flux            units: W/m3
    per meter of boundary layer)


   Threshold buoyancy flux required to
   sustain convective mixing height growth
   overwater (THRESHW)                  Default: 0.05   ! THRESHW = 0.05 !
   (expressed as a heat flux            units: W/m3
    per meter of boundary layer)

   Flag to allow relaxation of convective mixing height
   to equilibrium value when  0<QH<THRESHL (overland)
                          or  0<QH<THRESHW (overwater)
   (IZICRLX)                            Default: 1      ! IZICRLX =  1  !
      0 : do NOT use convective mixing height relaxation
          to equilibrium value (treatment identical to CALMET v5.8)
      1 : use convective mixing height relaxation
          to equilibrium value

   Relaxation time of convective mixing height to
   equilibrium value when  0<QH<THRESHL (overland)
```

```
                      or  0<QH<THRESHW (overwater)
   (Used only if IZICRLX = 1 and  TZICRLX must be >= 1.)
   (TZICRLX)                          Default: 800.   ! TZICRLX =  800.  !
                                      Units: seconds

   Option for overwater lapse rates used
   in convective mixing height growth
   (ITWPROG)                          Default: 0      ! ITWPROG =  0  !
   0 : use SEA.DAT lapse rates and deltaT (or assume neutral
       conditions if missing)
   1 : use prognostic lapse rates (only if IPROG>2)
       and SEA.DAT deltaT (or neutral if missing)
   2 : use prognostic lapse rates and prognostic delta T
       (only if iprog>12 and 3D.DAT version# 2.0 or higher)

   Land Use category ocean in 3D.DAT datasets
   (ILUOC3D)                          Default: 16     ! ILUOC3D =  16  !
   Note: if 3D.DAT from MM5 version 3.0, iluoc3d = 16
         if MM4.DAT,           typically iluoc3d = 7


OTHER MIXING HEIGHT VARIABLES

   Minimum potential temperature lapse
   rate in the stable layer above the
   current convective mixing ht.      Default: 0.001  ! DPTMIN = 0.001 !
   (DPTMIN)                           Units: deg. K/m
   Depth of layer above current conv.
   mixing height through which lapse  Default: 200.   ! DZZI   = 200.  !
   rate is computed (DZZI)            Units: meters

   Minimum overland mixing height     Default:  50.   ! ZIMIN  = 50.   !
   (ZIMIN)                            Units: meters
   Maximum overland mixing height     Default: 3000.  ! ZIMAX  = 3000. !
   (ZIMAX)                            Units: meters
   Minimum overwater mixing height    Default:   50.  ! ZIMINW = 50.   !
   (ZIMINW) -- (Not used if observed  Units: meters
   overwater mixing hts. are used)
   Maximum overwater mixing height    Default: 3000.  ! ZIMAXW = 3000. !
   (ZIMAXW) -- (Not used if observed  Units: meters
   overwater mixing hts. are used)


OVERWATER SURFACE FLUXES METHOD and PARAMETERS
      (ICOARE)                        Default: 10      ! ICOARE =  10  !
       0: original deltaT method (OCD)
      10: COARE with no wave parameterization (jwave=0, Charnock)
      11: COARE with wave option jwave=1 (Oost et al.)
          and default wave properties
     -11: COARE with wave option jwave=1 (Oost et al.)
          and observed wave properties (must be in SEA.DAT files)
      12: COARE with wave option 2 (Taylor and Yelland)
           and default wave properties
     -12: COARE with wave option 2 (Taylor and Yelland)
          and observed wave properties (must be in SEA.DAT files)
```

```
      Note:  When ICOARE=0, similarity wind profile stability PSI functions
             based on Van Ulden and Holtslag (1985) are substituted for
             later formulations used with the COARE module, and temperatures
             used for surface layer parameters are obtained from either the
             nearest surface station temperature or prognostic model 2D
             temperatures (if ITPROG=2).


      Coastal/Shallow water length scale (DSHELF)
      (for modified z0 in shallow water)
      ( COARE fluxes only)
                                    Default : 0.        ! DSHELF  =  0. !
                                    units: km

       COARE warm layer computation (IWARM)             ! IWARM   =  0  !
       1: on - 0: off (must be off if SST measured with
       IR radiometer)               Default: 0

       COARE cool skin layer computation (ICOOL)        ! ICOOL   =  0  !
       1: on - 0: off (must be off if SST measured with
       IR radiometer)               Default: 0

RELATIVE HUMIDITY PARAMETERS

   3D relative humidity from observations or
   from prognostic data? (IRHPROG)       Default:0      ! IRHPROG =  0  !

      0 = Use RH from SURF.DAT file
          (only if NOOBS = 0,1)
      1 = Use prognostic RH
          (only if NOOBS = 0,1,2)

TEMPERATURE PARAMETERS

   3D temperature from observations or
   from prognostic data? (ITPROG)        Default:0      ! ITPROG  =  1  !

      0 = Use Surface and upper air stations
          (only if NOOBS = 0)
      1 = Use Surface stations (no upper air observations)
          Use MM5/3D for upper air data
          (only if NOOBS = 0,1)
      2 = No surface or upper air observations
          Use MM5/3D for surface and upper air data
          (only if NOOBS = 0,1,2)

   Interpolation type
   (1 = 1/R ; 2 = 1/R**2)                Default:1       ! IRAD =  1  !

   Radius of influence for temperature
   interpolation (TRADKM)                Default: 500.   ! TRADKM = 500. !
                                         Units: km

   Maximum Number of stations to include
```

```
      in temperature interpolation (NUMTS)  Default: 5        ! NUMTS = 5  !

      Conduct spatial averaging of temp-
      eratures (IAVET)  (0=no, 1=yes)       Default: 1        ! IAVET =  1  !
      (will use mixing ht MNMDAV,HAFANG
       so make sure they are correct)

      Default temperature gradient          Default: -.0098   ! TGDEFB = -0.0098 !
      below the mixing height over          Units: K/m
      water (TGDEFB)

      Default temperature gradient          Default: -.0045   ! TGDEFA = -0.0045 !
      above the mixing height over          Units: K/m
      water (TGDEFA)

      Beginning (JWAT1) and ending (JWAT2)
      land use categories for temperature                     ! JWAT1 =  99  !
      interpolation over water -- Make                        ! JWAT2 =  99  !
      bigger than largest land use to disable

   PRECIP INTERPOLATION PARAMETERS

      Method of interpolation (NFLAGP)      Default: 2       ! NFLAGP =  2  !
       (1=1/R,2=1/R**2,3=EXP/R**2)
      Radius of Influence  (SIGMAP)         Default: 100.0   ! SIGMAP = 100. !
       (0.0 => use half dist. btwn          Units: km
        nearest stns w & w/out
        precip when NFLAGP = 3)
      Minimum Precip. Rate Cutoff (CUTP)    Default: 0.01    ! CUTP = 0.01 !
       (values < CUTP = 0.0 mm/hr)          Units: mm/hr
!END!


--------------------------------------------------------------------------------

INPUT GROUP: 7 -- Surface meteorological station parameters
--------------

     SURFACE STATION VARIABLES
     (One record per station --  6  records in all)


            1     2
        Name   ID            X coord.   Y coord.   Time   Anem.
                               (km)       (km)      zone   Ht.(m)
      ------------------------------------------------------------
! SS1  ='YKL'    71828       641.122    6075.043     0     10  !

-------------------
TIME ZONE WARNING_PL
For SURF.DAT data version 2.1, the time zone given here is not used. UTC time
zone format is used and read in the data file directly.

      1
        Four character string for station name
```

```
        (MUST START IN COLUMN 9)

      2
        Six digit integer for station ID

!END!


------------------------------------------------------------------------------

INPUT GROUP: 8 -- Upper air meteorological station parameters
--------------

     UPPER AIR STATION VARIABLES
     (One record per station --  1  records in all)

             1     2
         Name    ID      X coord.   Y coord.   Time
                           (km)       (km)     zone
        ------------------------------------------------
* US1  =                                          *

-------------------
      1
        Four character string for station name
        (MUST START IN COLUMN 9)

      2
        Five digit integer for station ID

!END!


------------------------------------------------------------------------------

INPUT GROUP: 9 -- Precipitation station parameters
--------------

     PRECIPITATION STATION VARIABLES
     (One record per station --  0  records in all)
     (NOT INCLUDED IF NPSTA = 0)

            1          2
         Name   Station    X coord.  Y coord.
                  Code       (km)      (km)
         ------------------------------------
* PS1  =                                       *

-------------------
      1
        Four character string for station name
        (MUST START IN COLUMN 9)

      2
        Six digit station code composed of state
```

```
        code (first 2 digits) and station ID (last
        4 digits)

!END!
```

APPENDIX B-2

CALMET INPUT - RAIL YARD DOMAIN

```
CALMET.INP      2.2             Hour Start and End Times with Seconds
Projet JoyceLake (Rev1) Rail yard domain 2014-12-03


---------------- Run title (3 lines) ------------------------------------------

                    CALMET MODEL CONTROL FILE
                    -------------------------

--------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names


Subgroup (a)
------------
Default Name  Type          File Name
------------  ----          ---------
GEO.DAT       input    ! GEODAT=C:\CALMET\GEOXX.DAT          !
SURF.DAT      input    ! SRFDAT=C:\CALMET\SURFXXXX.DAT       !
CLOUD.DAT     input    * CLDDAT=             *
PRECIP.DAT    input    * PRCDAT=             *
WT.DAT        input    * WTDAT=              *

CALMET.LST    output   ! METLST=C:\CALMET\CALMETXX_XXXX.LST  !
CALMET.DAT    output   ! METDAT=C:\CALMET\CALMETXX_XXXX.DAT  !
PACOUT.DAT    output   * PACDAT=             *

All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE

NUMBER OF UPPER AIR & OVERWATER STATIONS:

    Number of upper air stations (NUSTA)  No default     ! NUSTA  =  0  !
    Number of overwater met stations
                                (NOWSTA) No default     ! NOWSTA =  0  !

NUMBER OF PROGNOSTIC and IGF-CALMET FILEs:

    Number of MM4/MM5/3D.DAT files
                                (NM3D) No default       ! NM3D   =  1  !

    Number of IGF-CALMET.DAT files
                                (NIGF)   No default     ! NIGF   =  0  !

                        !END!
--------------------------------------------------------------------------------
Subgroup (b)
--------------------------------
Upper air files (one per station)
--------------------------------
Default Name  Type       File Name
------------  ----       ---------
```

```
UP1.DAT       input     1  *                          *  *END*


------------------------------------------------------------------------------
Subgroup (c)
----------------------------------------
Overwater station files (one per station)
----------------------------------------
Default Name  Type       File Name
------------  ----       ---------
SEA1.DAT       input     1  *                          *  *END*
------------------------------------------------------------------------------
Subgroup (d)
-----------------------------------------------
MM4/MM5/3D.DAT files (consecutive or overlapping)
-----------------------------------------------
Default Name  Type       File Name
------------  ----       ---------
MM51.DAT      input      1  ! M3DDAT=XXXX.m3d!    !END!
------------------------------------------------------------------------------
Subgroup (e)
-----------------------------------------------
IGF-CALMET.DAT files (consecutive or overlapping)
-----------------------------------------------
Default Name  Type       File Name
------------  ----       ---------
IGFn.DAT       input     1  *                          *  *END*
------------------------------------------------------------------------------
Subgroup (f)
----------------
Other file names
----------------

Default Name  Type       File Name
------------  ----       ---------
DIAG.DAT      input      * DIADAT=                   *
PROG.DAT      input      * PRGDAT=                   *

TEST.PRT      output     * TSTPRT=                   *
TEST.OUT      output     * TSTOUT=                   *
TEST.KIN      output     * TSTKIN=                   *
TEST.FRD      output     * TSTFRD=                   *
TEST.SLP      output     * TSTSLP=                   *
DCST.GRD      output     * DCSTGD=                   *

------------------------------------------------------------------------------
NOTES: (1) File/path names can be up to 70 characters in length
       (2) Subgroups (a) and (f) must have ONE 'END' (surrounded by
           delimiters) at the end of the group
       (3) Subgroups (b) through (e) are included ONLY if the corresponding
           number of files (NUSTA, NOWSTA, NM3D, NIGF) is not 0, and each must have
           an 'END' (surround by delimiters) at the end of EACH LINE

                          !END!
```

```
--------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

     Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX  !
                       Month  (IBMO)  --    No default   ! IBMO  =  XX  !
                       Day    (IBDY)  --    No default   ! IBDY  =  XX  !
     Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0  !
                       Second (IBSEC) --    No default   ! IBSEC =  0  !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX  !
                       Month  (IEMO)  --    No default   ! IEMO  =  XX  !
                       Day    (IEDY)  --    No default   ! IEDY  =  XX  !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0  !
                       Second (IESEC) --    No default   ! IESEC =  0  !

      UTC time zone          (ABTZ) -- No default       ! ABTZ= UTC-0500 !
         (character*8)
         PST = UTC-0800, MST = UTC-0700 , GMT = UTC-0000
         CST = UTC-0600, EST = UTC-0500

     Length of modeling time-step (seconds)
     Must divide evenly into 3600 (1 hour)
     (NSECDT)                        Default:3600     ! NSECDT =  3600  !
                                     Units: seconds

     Run type             (IRTYPE) -- Default: 1       ! IRTYPE =  1  !

        0 = Computes wind fields only
        1 = Computes wind fields and micrometeorological variables
            (u*, w*, L, zi, etc.)
        (IRTYPE must be 1 to run CALPUFF or CALGRID)

     Compute special data fields required
     by CALGRID (i.e., 3-D fields of W wind
     components and temperature)
     in additional to regular            Default: T    ! LCALGRD = T !
     fields ? (LCALGRD)
     (LCALGRD must be T to run CALGRID)

      Flag to stop run after
      SETUP phase (ITEST)             Default: 2       ! ITEST   = 2 !
      (Used to allow checking
      of the model inputs, files, etc.)
      ITEST = 1 - STOPS program after SETUP phase
      ITEST = 2 - Continues with execution of
                  COMPUTATIONAL phase after SETUP


     Test options specified to see if
     they conform to regulatory
     values? (MREG)                  No Default       ! MREG =   0   !
```

```
      0 = NO checks are made
      1 = Technical options must conform to USEPA guidance
                IMIXH    -1     Maul-Carson convective mixing height
                                over land; OCD mixing height overwater
                ICOARE   0      OCD deltaT method for overwater fluxes
                THRESHL  0.0    Threshold buoyancy flux over land needed
                                to sustain convective mixing height growth
                ISURFT   > 0    in OBS mode (pick one representative station)
                         -2     in NOOBS mode (itprog=2) (average all
                                surface prognostic temperatures to get
                                a single representative sf. temp)
                IUPT     > 0    in OBS mode (pick one representative station)
                         -2     in NOOBS mode (ITPROG>0) (average all surface
                                prognostic temperatures to get a single
                                representative sf. temp)
                IZICRLX  0      Do NOT use convective mixing height relaxation
                                to equilibrium value

!END!

------------------------------------------------------------------------------

INPUT GROUP: 2 -- Map Projection and Grid control parameters
--------------

     Projection for all (X,Y):
     -------------------------

     Map projection
     (PMAP)                     Default: UTM    ! PMAP = UTM  !

         UTM :  Universal Transverse Mercator
         TTM :  Tangential Transverse Mercator
         LCC :  Lambert Conformal Conic
          PS :  Polar Stereographic
          EM :  Equatorial Mercator
        LAZA :  Lambert Azimuthal Equal Area

     False Easting and Northing (km) at the projection origin
     (Used only if PMAP= TTM, LCC, or LAZA)
     (FEAST)                    Default=0.0     * FEAST  = 0.000  *
     (FNORTH)                   Default=0.0     * FNORTH = 0.000  *

     UTM zone (1 to 60)
     (Used only if PMAP=UTM)
     (IUTMZN)                   No Default      ! IUTMZN =  19 !

     Hemisphere for UTM projection?
     (Used only if PMAP=UTM)
     (UTMHEM)                   Default: N      ! UTMHEM =   N !
         N   :  Northern hemisphere projection
         S   :  Southern hemisphere projection

     Latitude and Longitude (decimal degrees) of projection origin
     (Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
```

```
(RLAT0)                    No Default      * RLAT0 =  40N  *
(RLON0)                    No Default      * RLON0 =  90W  *

    TTM :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    LCC :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    PS  :  RLON0 identifies central (grid N/S) meridian of projection
           RLAT0 selected for convenience
    EM  :  RLON0 identifies central meridian of projection
           RLAT0 is REPLACED by 0.0N (Equator)
    LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
           RLAT0 identifies latitude of tangent-point of mapping plane

Matching parallel(s) of latitude (decimal degrees) for projection
(Used only if PMAP= LCC or PS)
(XLAT1)                    No Default      * XLAT1 =  30N  *
(XLAT2)                    No Default      * XLAT2 =  60N  *

    LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
    PS  :  Projection plane slices through Earth at XLAT1
           (XLAT2 is not used)

----------
Note:  Latitudes and longitudes should be positive, and include a
       letter N,S,E, or W indicating north or south latitude, and
       east or west longitude.  For example,
       35.9  N Latitude  =  35.9N
       118.7 E Longitude = 118.7E


Datum-region
------------

The Datum-Region for the coordinates is identified by a character
string.  Many mapping products currently available use the model of the
Earth known as the World Geodetic System 1984 (WGS-84).  Other local
models may be in use, and their selection in CALMET will make its output
consistent with local mapping products.  The list of Datum-Regions with
official transformation parameters is provided by the National Imagery and
Mapping Agency (NIMA).

NIMA Datum - Regions(Examples)
------------------------------------------------------------------------------
WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
NAR-B     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CANADA (NAD83)
NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
NWS-84    NWS 6370KM Radius, Sphere
ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

NOTE_PL
For all NIMA Datum, see MMS2006_Volume2_CALMET_Preprocessors.pdf, B.4 NIMA
   Datum Reference Information
```

```
     Datum-region for output coordinates
     (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


     Horizontal grid definition:
     ---------------------------

     Rectangular grid defined for projection PMAP,
     with X the Easting and Y the Northing coordinate

           No. X grid cells (NX)      No default     ! NX =    80  !
           No. Y grid cells (NY)      No default     ! NY =    90  !

     Grid spacing (DGRIDKM)           No default     ! DGRIDKM = 0.1 !
                                      Units: km

     Reference grid coordinate of
     SOUTHWEST corner of grid cell (1,1)

        X coordinate (XORIGKM)        No default     ! XORIGKM =  647.700 !
        Y coordinate (YORIGKM)        No default     ! YORIGKM = 6054.500 !
                                      Units: km


     Vertical grid definition:
     -------------------------

        No. of vertical layers (NZ)   No default     ! NZ =  10  !

        Cell face heights in arbitrary
        vertical grid (ZFACE(NZ+1))   No defaults
                                      Units: m
        ! ZFACE = 0.,20.,40.,80.,160.,300.,600.,1000.,1500.,2000.,2500. !

!END!


------------------------------------------------------------------------------

INPUT GROUP: 3 -- Output Options
--------------


    DISK OUTPUT OPTION

       Save met. fields in an unformatted
       output file ?              (LSAVE)  Default: T     ! LSAVE  =  T !
       (F = Do not save, T = Save)

       Type of unformatted output file:
       (IFORMO)                            Default: 1     ! IFORMO =  1 !

            1 = CALPUFF/CALGRID type file (CALMET.DAT)
            2 = MESOPUFF-II type file     (PACOUT.DAT)
```

```
LINE PRINTER OUTPUT OPTIONS:

   Print met. fields ?  (LPRINT)       Default: F     ! LPRINT =  F !
   (F = Do not print, T = Print)
   (NOTE: parameters below control which
          met. variables are printed)

   Print interval
   (IPRINF) in hours                   Default: 1     ! IPRINF =  1 !
   (Meteorological fields are printed
    every  1  hours)


   Specify which layers of U, V wind component
   to print (IUVOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T)        Defaults: NZ*0
   ! IUVOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !
   ----------------------


   Specify which levels of the W wind component to print
   (NOTE: W defined at TOP cell face --  10  values)
   (IWOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T & LCALGRD=T)
   ----------------------------------
                                       Defaults: NZ*0
    ! IWOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !


   Specify which levels of the 3-D temperature field to print
   (ITOUT(NZ)) -- NOTE: NZ values must be entered
   (0=Do not print, 1=Print)
   (used only if LPRINT=T & LCALGRD=T)
   ----------------------------------
                                       Defaults: NZ*0
    ! ITOUT =  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0 ,  0  !

   Specify which meteorological fields
   to print
   (used only if LPRINT=T)             Defaults: 0 (all variables)
   ----------------------


     Variable            Print ?
                     (0 = do not print,
                      1 = print)
     --------        ------------------

  !  STABILITY  =           0           ! - PGT stability class
  !  USTAR      =           0           ! - Friction velocity
  !  MONIN      =           0           ! - Monin-Obukhov length
  !  MIXHT      =           0           ! - Mixing height
```

```
!  WSTAR      =           0           ! - Convective velocity scale
!  PRECIP     =           0           ! - Precipitation rate
!  SENSHEAT   =           0           ! - Sensible heat flux
!  CONVZI     =           0           ! - Convective mixing ht.


 Testing and debug print options for micrometeorological module

    Print input meteorological data and
    internal variables (LDB)         Default: F       ! LDB = F !
    (F = Do not print, T = print)
    (NOTE: this option produces large amounts of output)

    First time step for which debug data
    are printed (NN1)                Default: 1       ! NN1 =  1  !

    Last time step for which debug data
    are printed (NN2)                Default: 1       ! NN2 =  1  !

    Print distance to land
    internal variables (LDBCST)      Default: F       ! LDBCST = F !
    (F = Do not print, T = print)
    (Output in .GRD file DCST.GRD, defined in input group 0)

 Testing and debug print options for wind field module
 (all of the following print options control output to
  wind field module's output files: TEST.PRT, TEST.OUT,
  TEST.KIN, TEST.FRD, and TEST.SLP)

    Control variable for writing the test/debug
    wind fields to disk files (IOUTD)
    (0=Do not write, 1=write)        Default: 0       ! IOUTD =  0  !

    Number of levels, starting at the surface,
    to print (NZPRN2)                Default: 1       ! NZPRN2 =  1  !

    Print the INTERPOLATED wind components ?
    (IPR0) (0=no, 1=yes)             Default: 0       !  IPR0 =  0  !

    Print the TERRAIN ADJUSTED surface wind
    components ?
    (IPR1) (0=no, 1=yes)             Default: 0       !  IPR1 =  0  !

    Print the SMOOTHED wind components and
    the INITIAL DIVERGENCE fields ?
    (IPR2) (0=no, 1=yes)             Default: 0       !  IPR2 =  0  !

    Print the FINAL wind speed and direction
    fields ?
    (IPR3) (0=no, 1=yes)             Default: 0       !  IPR3 =  0  !

    Print the FINAL DIVERGENCE fields ?
    (IPR4) (0=no, 1=yes)             Default: 0       !  IPR4 =  0  !

    Print the winds after KINEMATIC effects
```

```
          are added ?
          (IPR5) (0=no, 1=yes)             Default: 0       !  IPR5 =  0  !

          Print the winds after the FROUDE NUMBER
          adjustment is made ?
          (IPR6) (0=no, 1=yes)             Default: 0       !  IPR6 =  0  !

          Print the winds after SLOPE FLOWS
          are added ?
          (IPR7) (0=no, 1=yes)             Default: 0       !  IPR7 =  0  !

          Print the FINAL wind field components ?
          (IPR8) (0=no, 1=yes)             Default: 0       !  IPR8 =  0  !

!END!


-------------------------------------------------------------------------------

INPUT GROUP: 4 -- Meteorological data options
--------------

    NO OBSERVATION MODE              (NOOBS)  Default: 0     ! NOOBS  =  1  !
          0 = Use surface, overwater, and upper air stations
          1 = Use surface and overwater stations (no upper air observations)
              Use MM4/MM5/3D for upper air data
          2 = No surface, overwater, or upper air observations
              Use MM4/MM5/3D for surface, overwater, and upper air data

    NUMBER OF SURFACE & PRECIP. METEOROLOGICAL STATIONS

       Number of surface stations   (NSSTA)  No default     ! NSSTA  =  1  !

       Number of precipitation stations
       (NPSTA=-1: flag for use of MM5/3D precip data)
                                    (NPSTA)  No default     ! NPSTA  =  0  !

    CLOUD DATA OPTIONS
       Output option - output a CLOUD.DAT file (yes or no)
       0=no, 1=yes
                                  (ICLDOUT) Default:999      ! ICLDOUT = 0  !

       Method to compute cloud fields:
                                   (MCLOUD)  Default: 999     ! MCLOUD =  1  !
       MCLOUD = 1 - Clouds data generated from surface observations
       MCLOUD = 2 - Gridded CLOUD.DAT read from CLOUD.DAT file (no output
                    is possible since already exist)
       MCLOUD = 3 - Gridded cloud cover from Prognostic Rel. Humidity
                    at 850mb (Teixera)
       MCLOUD = 4 - Gridded cloud cover from Prognostic Rel. Humidity
                    at all levels (MM5toGrads algorithm)

    FILE FORMATS

       Surface meteorological data file format
```

```
                                (IFORMS)  Default: 2     ! IFORMS =  2  !
      (1 = unformatted (e.g., SMERGE output))
      (2 = formatted   (free-formatted user input))

      Precipitation data file format
                                (IFORMP)  Default: 2     ! IFORMP =  2  !
      (1 = unformatted (e.g., PMERGE output))
      (2 = formatted   (free-formatted user input))

      Cloud data file format
                                (IFORMC)  Default: 2     ! IFORMC =  2  !
      (1 = unformatted - CALMET unformatted output)
      (2 = formatted   - free-formatted CALMET output or user input)

!END!


--------------------------------------------------------------------------------

INPUT GROUP: 5 -- Wind Field Options and Parameters
--------------


    WIND FIELD MODEL OPTIONS
      Model selection variable (IWFCOD)     Default: 1      ! IWFCOD =  1  !
         0 = Objective analysis only
         1 = Diagnostic wind module

      Compute Froude number adjustment
      effects ? (IFRADJ)                    Default: 1      ! IFRADJ =  1  !
      (0 = NO, 1 = YES)

      Compute kinematic effects ? (IKINE)   Default: 0      ! IKINE  =  0  !
      (0 = NO, 1 = YES)

      Use O'Brien procedure for adjustment
      of the vertical velocity ? (IOBR)     Default: 0      ! IOBR   =  0  !
      (0 = NO, 1 = YES)

      Compute slope flow effects ? (ISLOPE) Default: 1      ! ISLOPE =  1  !
      (0 = NO, 1 = YES)

      Extrapolate surface wind observations
      to upper layers ? (IEXTRP)            Default: -4     ! IEXTRP = -1  !
      (1 = no extrapolation is done,
       2 = power law extrapolation used,
       3 = user input multiplicative factors
           for layers 2 - NZ used (see FEXTRP array)
       4 = similarity theory used
       -1, -2, -3, -4 = same as above except layer 1 data
           at upper air stations are ignored

      Extrapolate surface winds even
      if calm? (ICALM)                      Default: 0      ! ICALM  =  0  !
      (0 = NO, 1 = YES)
```

```
   Layer-dependent biases modifying the weights of
   surface and upper air stations (BIAS(NZ))
     -1<=BIAS<=1
   Negative BIAS reduces the weight of upper air stations
     (e.g. BIAS=-0.1 reduces the weight of upper air stations
   by 10%; BIAS= -1, reduces their weight by 100 %)
   Positive BIAS reduces the weight of surface stations
     (e.g. BIAS= 0.2 reduces the weight of surface stations
   by 20%; BIAS=1 reduces their weight by 100%)
   Zero BIAS leaves weights unchanged (1/R**2 interpolation)
   Default: NZ*0
                           ! BIAS =  -1, +1, +1, +1, +1, +1, +1, +1, +1, +1 !
   NOTE_PL
     BIAS not used for NOOBS = 1

   Minimum distance from nearest upper air station
   to surface station for which extrapolation
   of surface winds at surface station will be allowed
   (RMIN2: Set to -1 for IEXTRP = 4 or other situations
    where all surface stations should be extrapolated)
                                        Default: 4.     ! RMIN2 = -1.0 !

   Use gridded prognostic wind field model
   output fields as input to the diagnostic
   wind field model (IPROG)             Default: 0      ! IPROG =  14  !
   (0 = No, [IWFCOD = 0 or 1]
    1 = Yes, use CSUMM prog. winds as Step 1 field, [IWFCOD = 0]
    2 = Yes, use CSUMM prog. winds as initial guess field [IWFCOD = 1]
    3 = Yes, use winds from MM4.DAT file as Step 1 field [IWFCOD = 0]
    4 = Yes, use winds from MM4.DAT file as initial guess field [IWFCOD = 1]
    5 = Yes, use winds from MM4.DAT file as observations [IWFCOD = 1]
    13 = Yes, use winds from MM5/3D.DAT file as Step 1 field [IWFCOD = 0]
    14 = Yes, use winds from MM5/3D.DAT file as initial guess field [IWFCOD = 1]
    15 = Yes, use winds from MM5/3D.DAT file as observations [IWFCOD = 1]

   Timestep (seconds) of the prognostic
   model input data   (ISTEPPGS)        Default: 3600   ! ISTEPPGS = 10800 !

   Use coarse CALMET fields as initial guess fields (IGFMET)
   (overwrites IGF based on prognostic wind fields if any)
                                        Default: 0      ! IGFMET =  0  !

RADIUS OF INFLUENCE PARAMETERS

   Use varying radius of influence      Default: F      ! LVARY =  F !
   (if no stations are found within RMAX1,RMAX2,
    or RMAX3, then the closest station will be used)

   Maximum radius of influence over land
   in the surface layer (RMAX1)         No default      ! RMAX1 = 40. !
                                        Units: km
   Maximum radius of influence over land
   aloft (RMAX2)                        No default      ! RMAX2 = 550. !
                                        Units: km
```

```
      Maximum radius of influence over water
      (RMAX3)                              No default      ! RMAX3 = 300. !
                                           Units: km


   OTHER WIND FIELD INPUT PARAMETERS

      Minimum radius of influence used in
      the wind field interpolation (RMIN)  Default: 0.1    ! RMIN = 0.1 !
                                           Units: km
      Radius of influence of terrain
      features (TERRAD)                    No default      ! TERRAD = 10. !

                                           Units: km
      Relative weighting of the first
      guess field and observations in the
      SURFACE layer (R1)                   No default      ! R1 = 3. !
      (R1 is the distance from an          Units: km
      observational station at which the
      observation and first guess field are
      equally weighted)

      Relative weighting of the first
      guess field and observations in the
      layers ALOFT (R2)                    No default      ! R2 = 30. !
      (R2 is applied in the upper layers   Units: km
      in the same manner as R1 is used in
      the surface layer).

      Relative weighting parameter of the
      prognostic wind field data (RPROG)   No default      ! RPROG = 0. !
      (Used only if IPROG = 1)             Units: km
      -----------------------

      Maximum acceptable divergence in the
      divergence minimization procedure
      (DIVLIM)                             Default: 5.E-6  ! DIVLIM= 5.0E-06 !

      Maximum number of iterations in the
      divergence min. procedure (NITER)    Default: 50     ! NITER =  50  !

      Number of passes in the smoothing
      procedure (NSMTH(NZ))
      NOTE: NZ values must be entered
           Default: 2,(mxnz-1)*4 ! NSMTH =
 2 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4 ,  4  !

      Maximum number of stations used in
      each layer for the interpolation of
      data to a grid point (NINTR2(NZ))
      NOTE: NZ values must be entered      Default: 99.    ! NINTR2 =
 99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99 ,  99  !

      Critical Froude number (CRITFN)      Default: 1.0    ! CRITFN = 1. !
```

```
   Empirical factor controlling the
   influence of kinematic effects
   (ALPHA)                              Default: 0.1    ! ALPHA = 0.1 !

   Multiplicative scaling factor for
   extrapolation of surface observations
   to upper layers (FEXTR2(NZ))         Default: NZ*0.0
   ! FEXTR2 = 0., 0., 0., 0., 0., 0., 0., 0., 0., 0. !
   (Used only if IEXTRP = 3 or -3)


BARRIER INFORMATION

   Number of barriers to interpolation
   of the wind fields (NBAR)            Default: 0      ! NBAR =  0  !

   Level (1 to NZ) up to which barriers
   apply (KBAR)                         Default: NZ     ! KBAR =  10  !

   THE FOLLOWING 4 VARIABLES ARE INCLUDED
   ONLY IF NBAR > 0
   NOTE: NBAR values must be entered    No defaults
         for each variable              Units: km

      X coordinate of BEGINNING
      of each barrier (XBBAR(NBAR))     ! XBBAR = 0. !
      Y coordinate of BEGINNING
      of each barrier (YBBAR(NBAR))     ! YBBAR = 0. !

      X coordinate of ENDING
      of each barrier (XEBAR(NBAR))     ! XEBAR = 0. !
      Y coordinate of ENDING
      of each barrier (YEBAR(NBAR))     ! YEBAR = 0. !


DIAGNOSTIC MODULE DATA INPUT OPTIONS

   Surface temperature (IDIOPT1)        Default: 0      ! IDIOPT1 =  0  !
      0 = Compute internally from
          hourly surface observations or prognostic fields
      1 = Read preprocessed values from
          a data file (DIAG.DAT)

      Surface met. station to use for
      the surface temperature (ISURFT)  Default: -1    ! ISURFT = -1  !
      (Must be a value from 1 to NSSTA
       or -1 to use 2-D spatially varying
          surface temperatures).
       or -2 to use a domain-average prognostic
       lapse rate (only with ITPROG=2)
      (Used only if IDIOPT1 = 0)
      -------------------------

   Temperature lapse rate used in the   Default: 0     ! IDIOPT2 =  0  !
      computation of terrain-induced
```

```
   circulations (IDIOPT2)
   0 = Compute internally from (at least) twice-daily
       upper air observations or prognostic fields
   1 = Read hourly preprocessed values
       from a data file (DIAG.DAT)

   Upper air station to use for
   the domain-scale lapse rate (IUPT) Default: -1    ! IUPT   = -1  !
   (Must be a value from 1 to NUSTA
    or -1 to use 2-D spatially varying lapse rate)
    or -2 to use a domain-average prognostic
       lapse rate (only with ITPROG>0)
   (Used only if IDIOPT2 = 0)
   --------------------------

   Depth through which the domain-scale
   lapse rate is computed (ZUPT)      Default: 200.  ! ZUPT = 200. !
   (Used only if IDIOPT2 = 0)         Units: meters
   --------------------------

Initial Guess Field Winds
(IDIOPT3)                             Default: 0     ! IDIOPT3 =  0  !
   0 = Compute internally from
       observations or prognostic wind fields
   1 = Read hourly preprocessed domain-average wind values
       from a data file (DIAG.DAT)

   Upper air station to use for
   the initial guess winds (IUPWND)   Default: -1    ! IUPWND = -1  !
   (Must be a value from -1 to NUSTA, with
   -1 indicating 3-D initial guess fields,
   and IUPWND>1 domain-scaled (i.e. constant) IGF
   (Used only if IDIOPT3 = 0 and noobs=0)
   ---------------------------------------

   Bottom and top of layer through
   which the domain-scale winds
   are computed
   (ZUPWND(1), ZUPWND(2))        Defaults: 1., 1000. ! ZUPWND= 1., 1000. !
   (Used only if IDIOPT3 = 0, NOOBS>0 and IUPWND>0)    Units: meters
   --------------------------

Observed surface wind components
for wind field module (IDIOPT4)  Default: 0     ! IDIOPT4 =  0  !
   0 = Read WS, WD from a surface
       data file (SURF.DAT)
   1 = Read hourly preprocessed U, V from
       a data file (DIAG.DAT)

Observed upper air wind components
for wind field module (IDIOPT5)  Default: 0     ! IDIOPT5 =  0  !
   0 = Read WS, WD from an upper
       air data file (UP1.DAT, UP2.DAT, etc.)
   1 = Read hourly preprocessed U, V from
       a data file (DIAG.DAT)
```

```
      LAKE BREEZE INFORMATION

         Use Lake Breeze Module  (LLBREZE)
                                      Default: F      ! LLBREZE = F !

          Number of lake breeze regions (NBOX)            ! NBOX =  0  !

       X Grid line 1 defining the region of interest
                                                        ! XG1 = 0. !
       X Grid line 2 defining the region of interest
                                                        ! XG2 = 0. !
       Y Grid line 1 defining the region of interest
                                                        ! YG1 = 0. !
       Y Grid line 2 defining the region of interest
                                                        ! YG2 = 0. !

        X Point defining the coastline (Straight line)
                  (XBCST)  (KM)   Default: none    ! XBCST = 0. !

        Y Point defining the coastline (Straight line)
                  (YBCST)  (KM)   Default: none    ! YBCST = 0. !

        X Point defining the coastline (Straight line)
                  (XECST)  (KM)   Default: none    ! XECST = 0. !

        Y Point defining the coastline (Straight line)
                  (YECST)  (KM)   Default: none    ! YECST = 0. !


      Number of stations in the region     Default: none ! NLB =  0 !
      (Surface stations + upper air stations)

      Station ID's  in the region   (METBXID(NLB))
      (Surface stations first, then upper air stations)
        ! METBXID =  0 !

!END!


------------------------------------------------------------------------------

INPUT GROUP: 6 -- Mixing Height, Temperature and Precipitation Parameters
--------------

    EMPIRICAL MIXING HEIGHT CONSTANTS

      Neutral, mechanical equation
      (CONSTB)                          Default: 1.41   ! CONSTB = 1.41 !
      Convective mixing ht. equation
      (CONSTE)                          Default: 0.15   ! CONSTE = 0.15 !
      Stable mixing ht. equation
      (CONSTN)                          Default: 2400.  ! CONSTN = 2400.!
      Overwater mixing ht. equation
      (CONSTW)                          Default: 0.16   ! CONSTW = 0.16 !
```

```
   Absolute value of Coriolis
   parameter (FCORIOL)                  Default: 1.E-4  ! FCORIOL = 1.0E-04!
                                        Units: (1/s)

SPATIAL AVERAGING OF MIXING HEIGHTS

   Conduct spatial averaging
   (IAVEZI)  (0=no, 1=yes)              Default: 1      ! IAVEZI =  1  !

   Max. search radius in averaging
   process (MNMDAV)                     Default: 1      ! MNMDAV =  1  !
                                        Units: Grid
                                               cells
   Half-angle of upwind looking cone
   for averaging (HAFANG)               Default: 30.    ! HAFANG = 30. !
                                        Units: deg.
   Layer of winds used in upwind
   averaging (ILEVZI)                   Default: 1      ! ILEVZI =  1  !
   (must be between 1 and NZ)


CONVECTIVE MIXING HEIGHT OPTIONS:
   Method to compute the convective
   mixing height(IMIHXH)                Default: 1      ! IMIXH =  1  !
       1: Maul-Carson for land and water cells
      -1: Maul-Carson for land cells only -
          OCD mixing height overwater
       2: Batchvarova and Gryning for land and water cells
      -2: Batchvarova and Gryning for land cells only
          OCD mixing height overwater

   Threshold buoyancy flux required to
   sustain convective mixing height growth
   overland (THRESHL)                   Default: 0.0    ! THRESHL = 0. !
   (expressed as a heat flux            units: W/m3
    per meter of boundary layer)


   Threshold buoyancy flux required to
   sustain convective mixing height growth
   overwater (THRESHW)                  Default: 0.05   ! THRESHW = 0.05 !
   (expressed as a heat flux            units: W/m3
    per meter of boundary layer)

   Flag to allow relaxation of convective mixing height
   to equilibrium value when  0<QH<THRESHL (overland)
                          or  0<QH<THRESHW (overwater)
   (IZICRLX)                            Default: 1      ! IZICRLX =  1  !
      0 : do NOT use convective mixing height relaxation
          to equilibrium value (treatment identical to CALMET v5.8)
      1 : use convective mixing height relaxation
          to equilibrium value

   Relaxation time of convective mixing height to
   equilibrium value when  0<QH<THRESHL (overland)
```

```
                      or  0<QH<THRESHW (overwater)
   (Used only if IZICRLX = 1 and  TZICRLX must be >= 1.)
   (TZICRLX)                          Default: 800.   ! TZICRLX =  800.  !
                                      Units: seconds

   Option for overwater lapse rates used
   in convective mixing height growth
   (ITWPROG)                          Default: 0      ! ITWPROG =  0  !
   0 : use SEA.DAT lapse rates and deltaT (or assume neutral
       conditions if missing)
   1 : use prognostic lapse rates (only if IPROG>2)
       and SEA.DAT deltaT (or neutral if missing)
   2 : use prognostic lapse rates and prognostic delta T
       (only if iprog>12 and 3D.DAT version# 2.0 or higher)

   Land Use category ocean in 3D.DAT datasets
   (ILUOC3D)                          Default: 16     ! ILUOC3D =  16  !
   Note: if 3D.DAT from MM5 version 3.0, iluoc3d = 16
         if MM4.DAT,           typically iluoc3d = 7


OTHER MIXING HEIGHT VARIABLES

   Minimum potential temperature lapse
   rate in the stable layer above the
   current convective mixing ht.      Default: 0.001  ! DPTMIN = 0.001 !
   (DPTMIN)                           Units: deg. K/m
   Depth of layer above current conv.
   mixing height through which lapse  Default: 200.   ! DZZI   = 200.  !
   rate is computed (DZZI)            Units: meters

   Minimum overland mixing height     Default:  50.   ! ZIMIN  = 50.   !
   (ZIMIN)                            Units: meters
   Maximum overland mixing height     Default: 3000.  ! ZIMAX  = 3000. !
   (ZIMAX)                            Units: meters
   Minimum overwater mixing height    Default:   50.  ! ZIMINW = 50.   !
   (ZIMINW) -- (Not used if observed  Units: meters
   overwater mixing hts. are used)
   Maximum overwater mixing height    Default: 3000.  ! ZIMAXW = 3000. !
   (ZIMAXW) -- (Not used if observed  Units: meters
   overwater mixing hts. are used)


OVERWATER SURFACE FLUXES METHOD and PARAMETERS
      (ICOARE)                        Default: 10      ! ICOARE =  10  !
       0: original deltaT method (OCD)
      10: COARE with no wave parameterization (jwave=0, Charnock)
      11: COARE with wave option jwave=1 (Oost et al.)
          and default wave properties
     -11: COARE with wave option jwave=1 (Oost et al.)
          and observed wave properties (must be in SEA.DAT files)
      12: COARE with wave option 2 (Taylor and Yelland)
           and default wave properties
     -12: COARE with wave option 2 (Taylor and Yelland)
          and observed wave properties (must be in SEA.DAT files)
```

```
      Note:  When ICOARE=0, similarity wind profile stability PSI functions
             based on Van Ulden and Holtslag (1985) are substituted for
             later formulations used with the COARE module, and temperatures
             used for surface layer parameters are obtained from either the
             nearest surface station temperature or prognostic model 2D
             temperatures (if ITPROG=2).


      Coastal/Shallow water length scale (DSHELF)
      (for modified z0 in shallow water)
      ( COARE fluxes only)
                                    Default : 0.        ! DSHELF  =  0. !
                                    units: km

       COARE warm layer computation (IWARM)             ! IWARM   =  0  !
       1: on - 0: off (must be off if SST measured with
       IR radiometer)               Default: 0

       COARE cool skin layer computation (ICOOL)        ! ICOOL   =  0  !
       1: on - 0: off (must be off if SST measured with
       IR radiometer)               Default: 0

RELATIVE HUMIDITY PARAMETERS

   3D relative humidity from observations or
   from prognostic data? (IRHPROG)       Default:0      ! IRHPROG =  0  !

      0 = Use RH from SURF.DAT file
          (only if NOOBS = 0,1)
      1 = Use prognostic RH
          (only if NOOBS = 0,1,2)

TEMPERATURE PARAMETERS

   3D temperature from observations or
   from prognostic data? (ITPROG)        Default:0      ! ITPROG  =  1  !

      0 = Use Surface and upper air stations
          (only if NOOBS = 0)
      1 = Use Surface stations (no upper air observations)
          Use MM5/3D for upper air data
          (only if NOOBS = 0,1)
      2 = No surface or upper air observations
          Use MM5/3D for surface and upper air data
          (only if NOOBS = 0,1,2)

   Interpolation type
   (1 = 1/R ; 2 = 1/R**2)                Default:1       ! IRAD =  1  !

   Radius of influence for temperature
   interpolation (TRADKM)                Default: 500.   ! TRADKM = 500. !
                                         Units: km

   Maximum Number of stations to include
```

```
      in temperature interpolation (NUMTS)  Default: 5        ! NUMTS = 5  !

      Conduct spatial averaging of temp-
      eratures (IAVET)  (0=no, 1=yes)       Default: 1        ! IAVET =  1  !
      (will use mixing ht MNMDAV,HAFANG
       so make sure they are correct)

      Default temperature gradient          Default: -.0098   ! TGDEFB = -0.0098 !
      below the mixing height over          Units: K/m
      water (TGDEFB)

      Default temperature gradient          Default: -.0045   ! TGDEFA = -0.0045 !
      above the mixing height over          Units: K/m
      water (TGDEFA)

      Beginning (JWAT1) and ending (JWAT2)
      land use categories for temperature                     ! JWAT1 =  99  !
      interpolation over water -- Make                        ! JWAT2 =  99  !
      bigger than largest land use to disable

   PRECIP INTERPOLATION PARAMETERS

      Method of interpolation (NFLAGP)      Default: 2       ! NFLAGP =  2  !
       (1=1/R,2=1/R**2,3=EXP/R**2)
      Radius of Influence  (SIGMAP)         Default: 100.0   ! SIGMAP = 100. !
       (0.0 => use half dist. btwn          Units: km
        nearest stns w & w/out
        precip when NFLAGP = 3)
      Minimum Precip. Rate Cutoff (CUTP)    Default: 0.01    ! CUTP = 0.01 !
       (values < CUTP = 0.0 mm/hr)          Units: mm/hr
!END!


--------------------------------------------------------------------------------

INPUT GROUP: 7 -- Surface meteorological station parameters
--------------

     SURFACE STATION VARIABLES
     (One record per station --  6  records in all)


            1     2
        Name   ID            X coord.   Y coord.   Time   Anem.
                               (km)       (km)      zone   Ht.(m)
      ------------------------------------------------------------
! SS1  ='YKL'    71828       641.122    6075.043     0     10  !

-------------------
TIME ZONE WARNING_PL
For SURF.DAT data version 2.1, the time zone given here is not used. UTC time
zone format is used and read in the data file directly.

      1
        Four character string for station name
```

```
        (MUST START IN COLUMN 9)

      2
        Six digit integer for station ID

!END!


------------------------------------------------------------------------------

INPUT GROUP: 8 -- Upper air meteorological station parameters
--------------

     UPPER AIR STATION VARIABLES
     (One record per station --  1  records in all)

             1     2
         Name    ID      X coord.   Y coord.   Time
                           (km)       (km)     zone
        ------------------------------------------------
* US1  =                                          *

-------------------
      1
        Four character string for station name
        (MUST START IN COLUMN 9)

      2
        Five digit integer for station ID

!END!


------------------------------------------------------------------------------

INPUT GROUP: 9 -- Precipitation station parameters
--------------

     PRECIPITATION STATION VARIABLES
     (One record per station --  0  records in all)
     (NOT INCLUDED IF NPSTA = 0)

            1          2
         Name   Station    X coord.  Y coord.
                  Code       (km)      (km)
         ------------------------------------
* PS1  =                                       *

-------------------
      1
        Four character string for station name
        (MUST START IN COLUMN 9)

      2
        Six digit station code composed of state
```

```
        code (first 2 digits) and station ID (last
        4 digits)

!END!
```

Appendix C

CALPUFF INPUTS

APPENDIX C-1

CALPUFF INPUT (PM) - MINE DOMAIN

```
CALPUFF.INP     2.0
Joyce Lake 121-18002-01
Mine domain (Rev1-2014) - pm

---------------- Run title (3 lines) ------------------------------------------

                    CALPUFF MODEL CONTROL FILE
                    --------------------------

--------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names

--------------
Default Name  Type           File Name
------------  ----           ---------
CALMET.DAT    input    * METDAT =             *
    or
ISCMET.DAT    input    * ISCDAT =             *
    or
PLMMET.DAT    input    * PLMDAT =             *
    or
PROFILE.DAT   input    * PRFDAT =             *
SURFACE.DAT   input    * SFCDAT =             *
RESTARTB.DAT  input    * RSTARTB=             *
--------------------------------------------------------------------------------
CALPUFF.LST   output   ! PUFLST =             !
CONC.DAT      output   ! CONDAT =             !
DFLX.DAT      output   ! DFDAT  =             !
WFLX.DAT      output   * WFDAT  =             *

VISB.DAT      output   * VISDAT =             *
TK2D.DAT      output   * T2DDAT =             *
RHO2D.DAT     output   * RHODAT =             *
RESTARTE.DAT  output   ! RSTARTE=             !
--------------------------------------------------------------------------------
Emission Files
--------------
PTEMARB.DAT   input    * PTDAT  =             *
VOLEMARB.DAT  input    * VOLDAT =             *
BAEMARB.DAT   input    * ARDAT  =             *
LNEMARB.DAT   input    * LNDAT  =             *
--------------------------------------------------------------------------------
Other Files
-----------
OZONE.DAT     input    * OZDAT  =             *
VD.DAT        input    * VDDAT  =             *
CHEM.DAT      input    * CHEMDAT=             *
AUX           input    * AUXEXT =             *
(Extension added to METDAT filename(s) for files
 with auxiliary 2D and 3D data)
H2O2.DAT      input    * H2O2DAT=             *
NH3Z.DAT      input    * NH3ZDAT=             *
HILL.DAT      input    * HILDAT=              *
HILLRCT.DAT   input    * RCTDAT=              *
```

```
COASTLN.DAT   input    * CSTDAT=              *
FLUXBDY.DAT   input    * BDYDAT=              *
BCON.DAT      input    * BCNDAT=              *
DEBUG.DAT     output   ! DEBUG =              !
MASSFLX.DAT   output   * FLXDAT=              *
MASSBAL.DAT   output   ! BALDAT=              !
FOG.DAT       output   * FOGDAT=              *
RISE.DAT      output   * RISDAT=              *
-------------------------------------------------------------------------------
All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE
NOTE: (1) file/path names can be up to 132 characters in length


Provision for multiple input files
----------------------------------

     Number of Modeling Domains (NMETDOM)
                                    Default: 1       ! NMETDOM =  1  !

     Number of CALMET.DAT files for run (NMETDAT)
                                    Default: 1       ! NMETDAT =  2  !

     Number of PTEMARB.DAT files for run (NPTDAT)
                                    Default: 0       ! NPTDAT  =  0  !

     Number of BAEMARB.DAT files for run (NARDAT)
                                    Default: 0       ! NARDAT  =  7  !

     Number of VOLEMARB.DAT files for run (NVOLDAT)
                                    Default: 0       ! NVOLDAT = 541 !

!END!

-------------
Subgroup (0a)
-------------

  Provide a name for each CALMET domain if NMETDOM > 1
  Enter NMETDOM lines.
                                  a,b
Default Name             Domain Name
------------             ------------
 none                  * DOMAIN1=     *   *END*
 none                  * DOMAIN2=     *   *END*
 none                  * DOMAIN3=     *   *END*


  The following CALMET.DAT filenames are processed in sequence
  if NMETDAT > 1

  Enter NMETDAT lines, 1 line for each file name.
```

```
                                    a,c,d
Default Name  Type          File Name
------------  ----          ---------
! METDAT1 = C:\CALMET\CALMET01.DAT! !END!
! METDAT1 = C:\CALMET\CALMET02.DAT! !END!

-------------
```

a

The name for each CALMET domain and each CALMET.DAT file is treated as a separate input subgroup and therefore must end with an input group terminator.

b

Use DOMAIN1= to assign the name for the outermost CALMET domain.
Use DOMAIN2= to assign the name for the next inner CALMET domain.
Use DOMAIN3= to assign the name for the next inner CALMET domain, etc.

> When inner domains with equal resolution (grid-cell size) overlap, the data from the FIRST such domain in the list will be used if all other criteria for choosing the controlling grid domain are inconclusive.

c

Use METDAT1= to assign the file names for the outermost CALMET domain.
Use METDAT2= to assign the file names for the next inner CALMET domain.
Use METDAT3= to assign the file names for the next inner CALMET domain, etc.

d

The filenames for each domain must be provided in sequential order

```
-------------
Subgroup (0b)
-------------

  The following PTEMARB.DAT filenames are processed if NPTDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       * PTDAT=     *   *END*

-------------
Subgroup (0c)
-------------

  The following BAEMARB.DAT filenames are processed if NARDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! ARDAT=sp_wst_multispecies_XXXX.hrl!     !END!
 none         input       ! ARDAT=sp_ob_multispecies_XXXX.hrl!      !END!
 none         input       ! ARDAT=sp_blend_multispecies_XXXX.hrl!   !END!
 none         input       ! ARDAT=sp_lumpp_multispecies_XXXX.hrl!   !END!
 none         input       ! ARDAT=sp_lumpb_multispecies_XXXX.hrl!   !END!
 none         input       ! ARDAT=sp_sintp_multispecies_XXXX.hrl!   !END!
 none         input       ! ARDAT=sp_sintb_multispecies_XXXX.hrl!   !END!
```

```
-------------
Subgroup (0d)
-------------

  The following VOLEMARB.DAT filenames are processed if NVOLDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! VOLDAT=blast1_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=drill1_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=crush_j_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=crush_c_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=screen_c_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=screen_f_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=convtr1_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=convtr2_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=convtr3_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=load_po_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=dump_o1_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=load_pw_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=dump_wst_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=load_pob_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=dump_ob_multispecies_XXXX.hrl!  !END!
 none         input       ! VOLDAT=dump_pls_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=dump_pll_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=load_hts_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=load_htl_multispecies_XXXX.hrl! !END!
 none         input       ! VOLDAT=tdoz1_multispecies_XXXX.hrl!    !END!
 none         input       ! VOLDAT=tdoz2_multispecies_XXXX.hrl!    !END!
 none         input       ! VOLDAT=hlg0001_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0002_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0003_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0004_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0005_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0006_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0007_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0008_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0009_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0010_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0011_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0012_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0013_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0014_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0015_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0016_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0017_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0018_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0019_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0020_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0021_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0022_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0023_multispecies_XXXX.hrl!   !END!
 none         input       ! VOLDAT=hlg0024_multispecies_XXXX.hrl!   !END!
```

```
none          input       ! VOLDAT=hlg0025_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0026_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0027_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0028_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0029_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0030_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0031_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0032_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0033_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0034_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0035_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0036_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0037_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0038_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0039_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0040_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0041_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0042_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0043_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0044_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0045_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0046_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0047_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0048_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0049_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0050_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0051_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0052_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0053_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0054_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0055_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0056_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0057_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0058_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0059_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0060_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0061_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0062_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0063_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0064_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0065_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0066_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0067_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0068_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0069_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0070_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0071_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0072_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0073_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0074_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0075_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0076_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0077_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0078_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0079_multispecies_XXXX.hrl!   !END!
```

```
none          input       ! VOLDAT=hlg0080_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0081_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0082_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0083_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0084_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0085_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0086_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0087_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0088_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0089_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0090_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0091_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0092_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0093_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0097_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0098_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0099_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0112_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0113_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0114_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0118_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0119_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0120_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0121_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0122_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0123_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0124_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0125_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg0415_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0416_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0417_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0418_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0419_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0420_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0421_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0422_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0423_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0424_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1106_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1107_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1108_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1110_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1117_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1118_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1119_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1122_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1123_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1124_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1125_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1126_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1127_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1129_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1131_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1132_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1133_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1140_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1141_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1142_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1143_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1160_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1184_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1185_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1186_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1187_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1189_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1190_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1191_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1192_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1193_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1194_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1195_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1196_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1197_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1198_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1206_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1214_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1215_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1216_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1217_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1218_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1219_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1220_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1221_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1222_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1224_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1225_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1226_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1230_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1231_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1232_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1233_multispecies_XXXX.hrl!   !END!
```

```
 none         input       ! VOLDAT=hlg1234_multispecies_XXXX.hrl!   !END!

-------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

    Option to run all periods found
    in the met. file     (METRUN)   Default: 0       ! METRUN =   0  !

        METRUN = 0 - Run period explicitly defined below
        METRUN = 1 - Run all periods in met. file

     Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX !
                       Month  (IBMO)  --    No default   ! IBMO  =  XX   !
                       Day    (IBDY)  --    No default   ! IBDY  =  XX   !
     Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0    !
                       Minute (IBMIN) --    No default   ! IBMIN =  0    !
                       Second (IBSEC) --    No default   ! IBSEC =  0    !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX !
                       Month  (IEMO)  --    No default   ! IEMO  =  XX   !
                       Day    (IEDY)  --    No default   ! IEDY  =  XX   !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0    !
                       Minute (IEMIN) --    No default   ! IEMIN =  0    !
                       Second (IESEC) --    No default   ! IESEC =  0    !

     (These are only used if METRUN = 0)

     Base time zone:          (ABTZ)  --    No default   ! ABTZ= UTC-0500 !
      (character*8)
     The modeling domain may span multiple time zones.  ABTZ defines the
     base time zone used for the entire simulation.  This must match the
     base time zone of the meteorological data.
     Examples:
         Los Angeles, USA          = UTC-0800
         New York, USA             = UTC-0500
         Santiago, Chile           = UTC-0400
         Greenwich Mean Time (GMT) = UTC+0000
         Rome, Italy               = UTC+0100
         Cape Town, S.Africa       = UTC+0200
         Sydney, Australia         = UTC+1000

     Length of modeling time-step (seconds)
     Equal to update period in the primary
     meteorological data files, or an
     integer fraction of it (1/2, 1/3 ...)
     Must be no larger than 1 hour
     (NSECDT)                       Default:3600     ! NSECDT =  3600  !
                                    Units: seconds

     Number of chemical species (NSPEC)
                                    Default: 5       ! NSPEC =  3   !

     Number of chemical species
```

```
to be emitted  (NSE)            Default: 3       ! NSE   =  3   !

Flag to stop run after
SETUP phase (ITEST)             Default: 2       ! ITEST =  2   !
(Used to allow checking
of the model inputs, files, etc.)
      ITEST = 1 - STOPS program after SETUP phase
      ITEST = 2 - Continues with execution of program
                  after SETUP

Restart Configuration:

   Control flag (MRESTART)      Default: 0       ! MRESTART =  0  !

      0 = Do not read or write a restart file
      1 = Read a restart file at the beginning of
          the run
      2 = Write a restart file during run
      3 = Read a restart file at beginning of run
          and write a restart file during run

   Number of periods in Restart
   output cycle (NRESPD)        Default: 0       ! NRESPD =  0  !

      0 = File written only at last period
     >0 = File updated every NRESPD periods

Meteorological Data Format (METFM)
                                Default: 1       ! METFM  =  1  !

      METFM = 1 - CALMET binary file (CALMET.MET)
      METFM = 2 - ISC ASCII file (ISCMET.MET)
      METFM = 3 - AUSPLUME ASCII file (PLMMET.MET)
      METFM = 4 - CTDM plus tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)
      METFM = 5 - AERMET tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)

Meteorological Profile Data Format (MPRFFM)
       (used only for METFM = 1, 2, 3)
                                Default: 1       ! MPRFFM =  1  !

      MPRFFM = 1 - CTDM plus tower file (PROFILE.DAT)
      MPRFFM = 2 - AERMET tower file (PROFILE.DAT)

PG sigma-y is adjusted by the factor (AVET/PGTIME)**0.2
Averaging Time (minutes) (AVET)
                                Default: 60.0    ! AVET   = 60. !
PG Averaging Time (minutes) (PGTIME)
                                Default: 60.0    ! PGTIME = 60. !


Output units for binary concentration and flux files
written in Dataset v2.2 or later formats
(IOUTU)                         Default: 1       ! IOUTU  =  1  !
```

```
        1 = mass      -  g/m3 (conc) or g/m2/s (dep)
        2 = odour     -  odour_units (conc)
        3 = radiation -  Bq/m3 (conc) or Bq/m2/s (dep)


     Output Dataset format for binary concentration
     and flux files (e.g., CONC.DAT)
     (IOVERS)                        Default: 2       ! IOVERS =  2  !
         1 = Dataset Version 2.1
         2 = Dataset Version 2.2


!END!


------------------------------------------------------------------------------

INPUT GROUP: 2 -- Technical options
--------------


     Vertical distribution used in the
     near field (MGAUSS)                   Default: 1     ! MGAUSS =  1  !
        0 = uniform
        1 = Gaussian

     Terrain adjustment method
     (MCTADJ)                              Default: 3     ! MCTADJ =  3  !
        0 = no adjustment
        1 = ISC-type of terrain adjustment
        2 = simple, CALPUFF-type of terrain
            adjustment
        3 = partial plume path adjustment

     Subgrid-scale complex terrain
     flag (MCTSG)                          Default: 0     ! MCTSG  =  0  !
        0 = not modeled
        1 = modeled

     Near-field puffs modeled as
     elongated slugs? (MSLUG)              Default: 0     ! MSLUG  =  0  !
        0 = no
        1 = yes (slug model used)

     Transitional plume rise modeled?
     (MTRANS)                              Default: 1     ! MTRANS =  1  !
        0 = no  (i.e., final rise only)
        1 = yes (i.e., transitional rise computed)

     Stack tip downwash? (MTIP)            Default: 1     ! MTIP   =  1  !
        0 = no  (i.e., no stack tip downwash)
        1 = yes (i.e., use stack tip downwash)

     Method used to compute plume rise for
     point sources not subject to building
```

```
downwash? (MRISE)                    Default: 1     ! MRISE  =  1  !
   1 = Briggs plume rise
   2 = Numerical plume rise

Method used to simulate building
downwash? (MBDW)                     Default: 1     ! MBDW   =  2  !
   1 = ISC method
   2 = PRIME method

Vertical wind shear modeled above
stack top (modified Briggs plume rise)?
(MSHEAR)                             Default: 0     ! MSHEAR =  0  !
   0 = no  (i.e., vertical wind shear not modeled)
   1 = yes (i.e., vertical wind shear modeled)

Puff splitting allowed? (MSPLIT)     Default: 0     ! MSPLIT =  1  !
   0 = no (i.e., puffs not split)
   1 = yes (i.e., puffs are split)

Chemical mechanism flag (MCHEM)      Default: 1     ! MCHEM  =  0  !
   0 = chemical transformation not
       modeled
   1 = transformation rates computed
       internally (MESOPUFF II scheme)
   2 = user-specified transformation
       rates used
   3 = transformation rates computed
       internally (RIVAD/ARM3 scheme)
   4 = secondary organic aerosol formation
       computed (MESOPUFF II scheme for OH)
   5 = user-specified half-life with or
       without transfer to child species
   6 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium)
   7 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium and CalTech SOA)

Aqueous phase transformation flag (MAQCHEM)
(Used only if MCHEM = 6, or 7)       Default: 0     ! MAQCHEM = 0  !
   0 = aqueous phase transformation
       not modeled
   1 = transformation rates and wet
       scavenging coefficients adjusted
       for in-cloud aqueous phase reactions
       (adapted from RADM cloud model
        implementation in CMAQ/SCICHEM)

Liquid Water Content flag (MLWC)
(Used only if MAQCHEM = 1)           Default: 1     ! MLWC   =  0  !
   0 = water content estimated from cloud cover
       and presence of precipitation
   1 = gridded cloud water data read from CALMET
       water content output files (filenames are
```

```
       the CALMET.DAT names PLUS the extension
       AUXEXT provided in Input Group 0)

Wet removal modeled ? (MWET)          Default: 1     ! MWET   =  0  !
   0 = no
   1 = yes

Dry deposition modeled ? (MDRY)       Default: 1     ! MDRY   =  1  !
   0 = no
   1 = yes
   (dry deposition method specified
    for each species in Input Group 3)


Gravitational settling (plume tilt)
modeled ? (MTILT)                     Default: 0     ! MTILT  =  0  !
   0 = no
   1 = yes
   (puff center falls at the gravitational
    settling velocity for 1 particle species)

Restrictions:
    - MDRY  = 1
    - NSPEC = 1  (must be particle species as well)
    - sg    = 0  GEOMETRIC STANDARD DEVIATION in Group 8 is
                 set to zero for a single particle diameter

Method used to compute dispersion
coefficients (MDISP)                  Default: 3     ! MDISP  =  2  !

   1 = dispersion coefficients computed from measured values
       of turbulence, sigma v, sigma w
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.
   5 = CTDM sigmas used for stable and neutral conditions.
       For unstable conditions, sigmas are computed as in
       MDISP = 3, described above.  MDISP = 5 assumes that
       measured values are read

Sigma-v/sigma-theta, sigma-w measurements used? (MTURBVW)
(Used only if MDISP = 1 or 5)         Default: 3     ! MTURBVW =  3  !
   1 = use sigma-v or sigma-theta measurements
       from PROFILE.DAT to compute sigma-y
       (valid for METFM = 1, 2, 3, 4, 5)
   2 = use sigma-w measurements
       from PROFILE.DAT to compute sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   3 = use both sigma-(v/theta) and sigma-w
       from PROFILE.DAT to compute sigma-y and sigma-z
```

```
        (valid for METFM = 1, 2, 3, 4, 5)
   4 = use sigma-theta measurements
        from PLMMET.DAT to compute sigma-y
        (valid only if METFM = 3)

Back-up method used to compute dispersion
when measured turbulence data are
missing (MDISP2)                      Default: 3     ! MDISP2 =  3  !
(used only if MDISP = 1 or 5)
   2 = dispersion coefficients from internally calculated
        sigma v, sigma w using micrometeorological variables
        (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
        the ISCST multi-segment approximation) and MP coefficients in
        urban areas
   4 = same as 3 except PG coefficients computed using
        the MESOPUFF II eqns.

[DIAGNOSTIC FEATURE]
Method used for Lagrangian timescale for Sigma-y
(used only if MDISP=1,2 or MDISP2=1,2)
(MTAULY)                              Default: 0     ! MTAULY =  0  !
   0 = Draxler default 617.284 (s)
   1 = Computed as Lag. Length / (.75 q) -- after SCIPUFF
  10 < Direct user input (s)             -- e.g., 306.9


[DIAGNOSTIC FEATURE]
Method used for Advective-Decay timescale for Turbulence
(used only if MDISP=2 or MDISP2=2)
(MTAUADV)                             Default: 0     ! MTAUADV = 0  !
   0 = No turbulence advection
   1 = Computed (OPTION NOT IMPLEMENTED)
  10 < Direct user input (s)   -- e.g., 800


Method used to compute turbulence sigma-v &
sigma-w using micrometeorological variables
(Used only if MDISP = 2 or MDISP2 = 2)
(MCTURB)                              Default: 1     ! MCTURB =  1  !
   1 = Standard CALPUFF subroutines
   2 = AERMOD subroutines

PG sigma-y,z adj. for roughness?      Default: 0     ! MROUGH =  0  !
(MROUGH)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTL =  1  !
elevated inversion modeled for
point sources?
(MPARTL)
   0 = no
   1 = yes
```

```
Partial plume penetration of          Default: 1     ! MPARTLBA = 1 !
elevated inversion modeled for
buoyant area sources?
(MPARTLBA)
   0 = no
   1 = yes

Strength of temperature inversion     Default: 0     ! MTINV  =  0  !
provided in PROFILE.DAT extended records?
(MTINV)
   0 = no (computed from measured/default gradients)
   1 = yes

PDF used for dispersion under convective conditions?
                                      Default: 0     ! MPDF   =  1  !
(MPDF)
   0 = no
   1 = yes

Sub-Grid TIBL module used for shore line?
                                      Default: 0     ! MSGTIBL = 0  !
(MSGTIBL)
   0 = no
   1 = yes

Boundary conditions (concentration) modeled?
                                      Default: 0     ! MBCON  =  0  !
(MBCON)
   0 = no
   1 = yes, using formatted BCON.DAT file
   2 = yes, using unformatted CONC.DAT file

Note:  MBCON > 0 requires that the last species modeled
       be 'BCON'.  Mass is placed in species BCON when
       generating boundary condition puffs so that clean
       air entering the modeling domain can be simulated
       in the same way as polluted air.  Specify zero
       emission of species BCON for all regular sources.

Individual source contributions saved?
                                      Default: 0     ! MSOURCE = 0  !
(MSOURCE)
   0 = no
   1 = yes


Analyses of fogging and icing impacts due to emissions from
arrays of mechanically-forced cooling towers can be performed
using CALPUFF in conjunction with a cooling tower emissions
processor (CTEMISS) and its associated postprocessors.  Hourly
emissions of water vapor and temperature from each cooling tower
cell are computed for the current cell configuration and ambient
conditions by CTEMISS. CALPUFF models the dispersion of these
emissions and provides cloud information in a specialized format
for further analysis. Output to FOG.DAT is provided in either
```

```
     'plume mode' or 'receptor mode' format.

     Configure for FOG Model output?
                                          Default: 0     ! MFOG   =  0  !
     (MFOG)
        0 = no
        1 = yes  - report results in PLUME Mode format
        2 = yes  - report results in RECEPTOR Mode format


     Test options specified to see if
     they conform to regulatory
     values? (MREG)                       Default: 1     ! MREG   =  0  !

        0 = NO checks are made
        1 = Technical options must conform to USEPA
            Long Range Transport (LRT) guidance
                       METFM    1 or 2
                       AVET     60. (min)
                       PGTIME   60. (min)
                       MGAUSS   1
                       MCTADJ   3
                       MTRANS   1
                       MTIP     1
                       MRISE    1
                       MCHEM    1 or 3 (if modeling SOx, NOx)
                       MWET     1
                       MDRY     1
                       MDISP    2 or 3
                       MPDF     0 if MDISP=3
                                1 if MDISP=2
                       MROUGH   0
                       MPARTL   1
                       MPARTLBA 0
                       SYTDEP   550. (m)
                       MHFTSZ   0
                       SVMIN    0.5 (m/s)


!END!


-------------------------------------------------------------------------------

INPUT GROUP: 3a, 3b -- Species list
-------------------

------------
Subgroup (3a)
------------

  The following species are modeled:

! CSPEC     = P1   ! !END!
! CSPEC     = P2   ! !END!
```

```
! CSPEC     = P3   ! !END!


                                                        Dry                  OUTPUT GROUP
    SPECIES          MODELED          EMITTED       DEPOSITED                  NUMBER
     NAME         (0=NO, 1=YES)    (0=NO, 1=YES)    (0=NO,                   (0=NONE,
   (Limit: 12                                        1=COMPUTED-GAS          1=1st CGRUP,
    Characters                                       2=COMPUTED-PARTICLE     2=2nd CGRUP,
    in length)                                       3=USER-SPECIFIED)       3= etc.)

!      P1 =             1,               1,              2,                    0  !
!      P2 =             1,               1,              2,                    0  !
!      P3 =             1,               1,              2,                    0  !
!END!
```

Note: The last species in (3a) must be 'BCON' when using the boundary condition option (MBCON > 0). Species BCON should typically be modeled as inert (no chem transformation or removal).

Subgroup (3b)

The following names are used for Species-Groups in which results for certain species are combined (added) prior to output. The CGRUP name will be used as the species name in output files. Use this feature to model specific particle-size distributions by treating each size-range as a separate species. Order must be consistent with 3(a) above.

INPUT GROUP: 4 -- Map Projection and Grid control parameters

Projection for all (X,Y):

Map projection (PMAP) Default: UTM ! PMAP = UTM !

- UTM : Universal Transverse Mercator
- TTM : Tangential Transverse Mercator
- LCC : Lambert Conformal Conic
- PS : Polar Stereographic
- EM : Equatorial Mercator
- LAZA : Lambert Azimuthal Equal Area

False Easting and Northing (km) at the projection origin
(Used only if PMAP= TTM, LCC, or LAZA)

```
(FEAST)                  Default=0.0     ! FEAST  = 0.000  !
(FNORTH)                 Default=0.0     ! FNORTH = 0.000  !
```

```
UTM zone (1 to 60)
(Used only if PMAP=UTM)
(IUTMZN)                    No Default      ! IUTMZN =  19 !

Hemisphere for UTM projection?
(Used only if PMAP=UTM)
(UTMHEM)                    Default: N      ! UTMHEM =   N !
    N   :  Northern hemisphere projection
    S   :  Southern hemisphere projection

Latitude and Longitude (decimal degrees) of projection origin
(Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
(RLAT0)                     No Default      * RLAT0 = 0N  *
(RLON0)                     No Default      * RLON0 = 0E  *

    TTM :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    LCC :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    PS  :  RLON0 identifies central (grid N/S) meridian of projection
           RLAT0 selected for convenience
    EM  :  RLON0 identifies central meridian of projection
           RLAT0 is REPLACED by 0.0N (Equator)
    LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
           RLAT0 identifies latitude of tangent-point of mapping plane

Matching parallel(s) of latitude (decimal degrees) for projection
(Used only if PMAP= LCC or PS)
(XLAT1)                     No Default      * XLAT1 = 0N  *
(XLAT2)                     No Default      * XLAT2 = 0N  *

    LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
    PS  :  Projection plane slices through Earth at XLAT1
           (XLAT2 is not used)

----------
Note:  Latitudes and longitudes should be positive, and include a
       letter N,S,E, or W indicating north or south latitude, and
       east or west longitude.  For example,
       35.9  N Latitude  =  35.9N
       118.7 E Longitude = 118.7E


Datum-region
------------

The Datum-Region for the coordinates is identified by a character
string.  Many mapping products currently available use the model of the
Earth known as the World Geodetic System 1984 (WGS-84).  Other local
models may be in use, and their selection in CALMET will make its output
consistent with local mapping products.  The list of Datum-Regions with
official transformation parameters is provided by the National Imagery and
Mapping Agency (NIMA).

NIMA Datum - Regions(Examples)
```

```
     ------------------------------------------------------------------------
     WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
     NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
     NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
     NWS-84    NWS 6370KM Radius, Sphere
     ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

     Datum-region for output coordinates
     (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


METEOROLOGICAL Grid:

     Rectangular grid defined for projection PMAP,
     with X the Easting and Y the Northing coordinate

            No. X grid cells (NX)      No default     ! NX =  140    !
            No. Y grid cells (NY)      No default     ! NY =  140    !
         No. vertical layers (NZ)      No default     ! NZ =   10    !

           Grid spacing (DGRIDKM)      No default     ! DGRIDKM = .1 !
                                       Units: km

                Cell face heights
                    (ZFACE(nz+1))      No defaults
                                       Units: m
   ! ZFACE = .0, 20.0, 40.0, 80.0, 160.0, 300.0, 600.0, 1000.0, 1500.0, 2000.0, 2500.0 !

            Reference Coordinates
           of SOUTHWEST corner of
                grid cell(1, 1):

            X coordinate (XORIGKM)     No default     ! XORIGKM =  650.300 !
            Y coordinate (YORIGKM)     No default     ! YORIGKM = 6077.800 !
                                      Units: km


COMPUTATIONAL Grid:

     The computational grid is identical to or a subset of the MET. grid.
     The lower left (LL) corner of the computational grid is at grid point
     (IBCOMP, JBCOMP) of the MET. grid.  The upper right (UR) corner of the
     computational grid is at grid point (IECOMP, JECOMP) of the MET. grid.
     The grid spacing of the computational grid is the same as the MET. grid.

        X index of LL corner (IBCOMP)      No default     ! IBCOMP =   1  !
                  (1 <= IBCOMP <= NX)

        Y index of LL corner (JBCOMP)      No default     ! JBCOMP =   1  !
                  (1 <= JBCOMP <= NY)


        X index of UR corner (IECOMP)      No default     ! IECOMP = 140  !
                  (1 <= IECOMP <= NX)
```

```
        Y index of UR corner (JECOMP)      No default     ! JECOMP = 140  !
                  (1 <= JECOMP <= NY)



SAMPLING Grid (GRIDDED RECEPTORS):

     The lower left (LL) corner of the sampling grid is at grid point
     (IBSAMP, JBSAMP) of the MET. grid.  The upper right (UR) corner of the
     sampling grid is at grid point (IESAMP, JESAMP) of the MET. grid.
     The sampling grid must be identical to or a subset of the computational
     grid.  It may be a nested grid inside the computational grid.
     The grid spacing of the sampling grid is DGRIDKM/MESHDN.

        Logical flag indicating if gridded
        receptors are used (LSAMP)         Default: T     ! LSAMP  =  F  !
        (T=yes, F=no)

        X index of LL corner (IBSAMP)      No default     ! IBSAMP =  0  !
         (IBCOMP <= IBSAMP <= IECOMP)

        Y index of LL corner (JBSAMP)      No default     ! JBSAMP =  0  !
         (JBCOMP <= JBSAMP <= JECOMP)


        X index of UR corner (IESAMP)      No default     ! IESAMP =  0  !
         (IBCOMP <= IESAMP <= IECOMP)

        Y index of UR corner (JESAMP)      No default     ! JESAMP =  0  !
         (JBCOMP <= JESAMP <= JECOMP)


       Nesting factor of the sampling
        grid (MESHDN)                      Default: 1     ! MESHDN =  1  !
        (MESHDN is an integer >= 1)

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 5 -- Output Options
--------------
                                          *                          *
     FILE                       DEFAULT VALUE             VALUE THIS RUN
     ----                       -------------             --------------

   Concentrations (ICON)              1                  !  ICON  =  1  !
   Dry Fluxes (IDRY)                  1                  !  IDRY  =  0  !
   Wet Fluxes (IWET)                  1                  !  IWET  =  0  !
   2D Temperature (IT2D)              0                  !  IT2D  =  0  !
   2D Density (IRHO)                  0                  !  IRHO  =  0  !
   Relative Humidity (IVIS)           1                  !  IVIS  =  0  !
    (relative humidity file is
```

```
  required for visibility
  analysis)
Use data compression option in output file?
(LCOMPRS)                          Default: T         ! LCOMPRS = T  !

*
 0 = Do not create file, 1 = create file


 QA PLOT FILE OUTPUT OPTION:

    Create a standard series of output files (e.g.
    locations of sources, receptors, grids ...)
    suitable for plotting?
    (IQAPLOT)                      Default: 1         ! IQAPLOT = 0  !
      0 = no
      1 = yes

 DIAGNOSTIC PUFF-TRACKING OUTPUT OPTION:

    Puff locations and properties reported to
    PFTRAK.DAT file for postprocessing?
    (IPFTRAK)                      Default: 0         ! IPFTRAK = 0  !
      0 = no
      1 = yes, update puff output at end of each timestep
      2 = yes, update puff output at end of each sampling step

 DIAGNOSTIC MASS FLUX OUTPUT OPTIONS:

    Mass flux across specified boundaries
    for selected species reported?
    (IMFLX)                        Default: 0         ! IMFLX  =  0  !
      0 = no
      1 = yes (FLUXBDY.DAT and MASSFLX.DAT filenames
               are specified in Input Group 0)

    Mass balance for each species
    reported?
    (IMBAL)                        Default: 0         ! IMBAL  =  1  !
      0 = no
      1 = yes (MASSBAL.DAT filename is
           specified in Input Group 0)


 NUMERICAL RISE OUTPUT OPTION:

    Create a file with plume properties for each rise
    increment, for each model timestep?
    This applies to sources modeled with numerical rise
    and is limited to ONE source in the run.
    (INRISE)                       Default: 0         ! INRISE =  0  !
      0 = no
      1 = yes (RISE.DAT filename is
               specified in Input Group 0)
```

```
 LINE PRINTER OUTPUT OPTIONS:

    Print concentrations (ICPRT)    Default: 0         ! ICPRT  =  0  !
    Print dry fluxes (IDPRT)        Default: 0         ! IDPRT  =  0  !
    Print wet fluxes (IWPRT)        Default: 0         ! IWPRT  =  0  !
    (0 = Do not print, 1 = Print)

    Concentration print interval
    (ICFRQ) in timesteps            Default: 1         ! ICFRQ  =  1  !
    Dry flux print interval
    (IDFRQ) in timesteps            Default: 1         ! IDFRQ  =  1  !
    Wet flux print interval
    (IWFRQ) in timesteps            Default: 1         ! IWFRQ  =  1  !

    Units for Line Printer Output
    (IPRTU)                         Default: 1         ! IPRTU  =  3  !
                    for             for
                Concentration    Deposition
        1 =        g/m**3          g/m**2/s
        2 =       mg/m**3         mg/m**2/s
        3 =       ug/m**3         ug/m**2/s
        4 =       ng/m**3         ng/m**2/s
        5 =      Odour Units

    Messages tracking progress of run
    written to the screen ?
    (IMESG)                         Default: 2         ! IMESG  =  2  !
      0 = no
      1 = yes (advection step, puff ID)
      2 = yes (YYYYJJJHH, # old puffs, # emitted puffs)


  SPECIES (or GROUP for combined species) LIST FOR OUTPUT OPTIONS

              ---- CONCENTRATIONS ----   ------ DRY FLUXES ------   ------ WET FLUXES
              ------   -- MASS FLUX --
 SPECIES
 /GROUP       PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON
 DISK?   SAVED ON DISK?
 -------      ------------------------   ------------------------
 ------------------------   ---------------
!          P1 =    0,          1,            0,          1,            0,
0,              0   !
!          P2 =    0,          1,            0,          1,            0,
0,              0   !
!          P3 =    0,          1,            0,          1,            0,
0,              0   !

  Note:  Species BCON (for MBCON > 0) does not need to be saved on disk.


  OPTIONS FOR PRINTING "DEBUG" QUANTITIES (much output)

    Logical for debug output
```

```
       (LDEBUG)                                Default: F     ! LDEBUG =  F  !

       First puff to track
       (IPFDEB)                                Default: 1     ! IPFDEB =  1  !

       Number of puffs to track
       (NPFDEB)                                Default: 1     ! NPFDEB =  1  !

       Met. period to start output
       (NN1)                                   Default: 1     ! NN1 =     1  !

       Met. period to end output
       (NN2)                                   Default: 10    ! NN2 =    10  !

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs
-------------------------

---------------
Subgroup (6a)
---------------
       Number of terrain features (NHILL)      Default: 0     ! NHILL  =  0  !

       Number of special complex terrain
       receptors  (NCTREC)                     Default: 0     ! NCTREC =  0  !

       Terrain and CTSG Receptor data for
       CTSG hills input in CTDM format ?
       (MHILL)                                 No Default     ! MHILL  =  2  !
       1 = Hill and Receptor data created
           by CTDM processors & read from
           HILL.DAT and HILLRCT.DAT files
       2 = Hill data created by OPTHILL &
           input below in Subgroup (6b);
           Receptor data in Subgroup (6c)

       Factor to convert horizontal dimensions  Default: 1.0   ! XHILL2M = 1.0 !
       to meters (MHILL=1)

       Factor to convert vertical dimensions    Default: 1.0   ! ZHILL2M = 1.0 !
       to meters (MHILL=1)

       X-origin of CTDM system relative to      No Default     ! XCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

       Y-origin of CTDM system relative to      No Default     ! YCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

! END !
```

Subgroup (6b)
---

1 **
HILL information

HILL NO.	XC (km)	YC (km)	THETAH (deg.)	ZGRID (m)	RELIEF (m)	EXPO 1 (m)	EXPO 2 (m)	SCALE 1 (m)	SCALE 2 (m)	AMAX1 (m)	AMAX2 (m)

Subgroup (6c)

COMPLEX TERRAIN RECEPTOR INFORMATION

XRCT (km)	YRCT (km)	ZRCT (m)	XHH

1
Description of Complex Terrain Variables:
XC, YC = Coordinates of center of hill
THETAH = Orientation of major axis of hill (clockwise from North)
ZGRID = Height of the 0 of the grid above mean sea level
RELIEF = Height of the crest of the hill above the grid elevation
EXPO 1 = Hill-shape exponent for the major axis
EXPO 2 = Hill-shape exponent for the major axis
SCALE 1 = Horizontal length scale along the major axis
SCALE 2 = Horizontal length scale along the minor axis
AMAX = Maximum allowed axis length for the major axis
BMAX = Maximum allowed axis length for the major axis

XRCT, YRCT = Coordinates of the complex terrain receptors
ZRCT = Height of the ground (MSL) at the complex terrain Receptor
XHH = Hill number associated with each complex terrain receptor (NOTE: MUST BE ENTERED AS A REAL NUMBER)

**
NOTE: DATA for each hill and CTSG receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

```
INPUT GROUP: 7 -- Chemical parameters for dry deposition of gases
--------------

      SPECIES     DIFFUSIVITY      ALPHA STAR      REACTIVITY    MESOPHYLL RESISTANCE
      HENRY'S LAW COEFFICIENT
       NAME        (cm**2/s)                                          (s/cm)
       (dimensionless)
      -------     -----------      ----------      ----------    --------------------
      ------------------------

!END!

-------------------------------------------------------------------------------


INPUT GROUP: 8 -- Size parameters for dry deposition of particles
--------------

     For SINGLE SPECIES, the mean and standard deviation are used to
     compute a deposition velocity for NINT (see group 9) size-ranges,
     and these are then averaged to obtain a mean deposition velocity.

     For GROUPED SPECIES, the size distribution should be explicitly
     specified (by the 'species' in the group), and the standard deviation
     for each should be entered as 0.  The model will then use the
     deposition velocity for the stated mean diameter.

      SPECIES      GEOMETRIC MASS MEAN        GEOMETRIC STANDARD
       NAME             DIAMETER                   DEVIATION
                        (microns)                  (microns)
      -------      -------------------        ------------------
      ! P1    =           2.86,                   1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
      ! P2    =          11.25,                   1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
      ! P3    =          44.79,                   1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
!END!

-------------------------------------------------------------------------------


INPUT GROUP: 9 -- Miscellaneous dry deposition parameters
--------------

     Reference cuticle resistance (s/cm)
     (RCUTR)                          Default: 30    !  RCUTR = 30.0 !
     Reference ground resistance  (s/cm)
     (RGR)                            Default: 10    !    RGR = 10.0 !
     Reference pollutant reactivity
     (REACTR)                         Default: 8     ! REACTR =  8.0 !

     Number of particle-size intervals used to
     evaluate effective particle deposition velocity
     (NINT)                           Default: 9     !   NINT =   5  !
```

```
     Vegetation state in unirrigated areas
     (IVEG)                            Default: 1     !   IVEG =   1  !
        IVEG=1 for active and unstressed vegetation
        IVEG=2 for active and stressed vegetation
        IVEG=3 for inactive vegetation

!END!
```

INPUT GROUP: 10 -- Wet Deposition Parameters

```
                      Scavenging Coefficient -- Units: (sec)**(-1)

       Pollutant      Liquid Precip.       Frozen Precip.
       ---------      --------------       --------------

!END!
```

INPUT GROUP: 11a, 11b -- Chemistry Parameters

Subgroup (11a)

Several parameters are needed for one or more of the chemical transformation mechanisms. Those used for each mechanism are:

Mechanism (MCHEM)	MOZ	BCKO3	MNH3	MAVGNH3	BCKNH3	RNITE1	RNITE2	RNITE3	MH2O2	BCKH2O2	BCKPMF	OFRAC	VCNX	NDECAY
0 None	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1 MESOPUFF II	X	X	.	.	X	X	X	X	.	.	.	.	.	.
2 User Rates	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3 RIVAD	X	X	.	.	X	.	.	.	.	.	.	.	.	.
4 SOA	X	X	.	.	.	.	.	.	.	.	X	X	X	.
5 Radioactive Decay	.	.	.	.	.	.	.	.	.	.	.	.	.	X
6 RIVAD/ISORRPIA	X	X	X	X	X	X	.	.	X	X	.	.	.	.
7 RIVAD/ISORRPIA/SOA	X	X	X	X	X	X	.	.	X	X	X	X	.	.

```
 Ozone data input option (MOZ)     Default: 1            ! MOZ =  0   !
 (Used only if MCHEM = 1, 3, 4, 6, or 7)
    0 = use a monthly background ozone value
    1 = read hourly ozone concentrations from
        the OZONE.DAT data file

 Monthly ozone concentrations in ppb (BCKO3)
 (Used only if MCHEM = 1,3,4,6, or 7 and either
    MOZ = 0, or
    MOZ = 1 and all hourly O3 data missing)
                                   Default: 12*80.
 !  BCKO3 = 32.0, 34.0, 37.0, 38.0, 32.0, 26.0, 23.0, 21.0, 23.0, 25.0, 28.0, 31.0 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

 Ammonia data option (MNH3)        Default: 0            ! MNH3 =  0   !
 (Used only if MCHEM = 6 or 7)
    0 = use monthly background ammonia values (BCKNH3) - no vertical variation
    1 = read monthly background ammonia values for each layer from
        the NH3Z.DAT data file

 Ammonia vertical averaging option (MAVGNH3)
 (Used only if MCHEM = 6 or 7, and MNH3 = 1)
    0 = use NH3 at puff center height (no averaging is done)
    1 = average NH3 values over vertical extent of puff
                                   Default: 1            ! MAVGNH3 =  1   !

 Monthly ammonia concentrations in ppb (BCKNH3)
 (Used only if MCHEM = 1 or 3, or
            if MCHEM = 6 or 7, and MNH3 = 0)
                                   Default: 12*10.
 !  BCKNH3 = 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

 Nighttime SO2 loss rate in %/hour (RNITE1)
 (Used only if MCHEM = 1, 6 or 7)
 This rate is used only at night for MCHEM=1
 and is added to the computed rate both day
 and night for MCHEM=6,7 (heterogeneous reactions)
                                   Default: 0.2          ! RNITE1 = 0.2 !

 Nighttime NOx loss rate in %/hour (RNITE2)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE2 = 2.0 !

 Nighttime HNO3 formation rate in %/hour (RNITE3)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE3 = 2.0 !

 H2O2 data input option (MH2O2)    Default: 1            ! MH2O2 =  0   !
 (Used only if MCHEM = 6 or 7, and MAQCHEM = 1)
    0 = use a monthly background H2O2 value
```

```
      1 = read hourly H2O2 concentrations from
          the H2O2.DAT data file

    Monthly H2O2 concentrations in ppb (BCKH2O2)
    (Used only if MQACHEM = 1 and either
       MH2O2 = 0 or
       MH2O2 = 1 and all hourly H2O2 data missing)
                                    Default: 12*1.
    !  BCKH2O2 = 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20 !
   * Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 - Background
   Concentrations
   ---------------------

--- Data for SECONDARY ORGANIC AEROSOL (SOA) Options
    (used only if MCHEM = 4 or 7)

    The MCHEM = 4 SOA module uses monthly values of:
         Fine particulate concentration in ug/m^3 (BCKPMF)
         Organic fraction of fine particulate     (OFRAC)
         VOC / NOX ratio (after reaction)         (VCNX)

    The MCHEM = 7 SOA module uses monthly values of:
         Fine particulate concentration in ug/m^3 (BCKPMF)
         Organic fraction of fine particulate     (OFRAC)

    These characterize the air mass when computing
    the formation of SOA from VOC emissions.
    Typical values for several distinct air mass types are:

       Month    1    2    3    4    5    6    7    8    9   10   11   12
                Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

    Clean Continental
       BCKPMF   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
       OFRAC  .15  .15  .20  .20  .20  .20  .20  .20  .20  .20  .20  .15
       VCNX    50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.

    Clean Marine (surface)
       BCKPMF  .5   .5   .5   .5   .5   .5   .5   .5   .5   .5   .5   .5
       OFRAC  .25  .25  .30  .30  .30  .30  .30  .30  .30  .30  .30  .25
       VCNX    50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.

    Urban - low biogenic (controls present)
       BCKPMF  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.
       OFRAC  .20  .20  .25  .25  .25  .25  .25  .25  .20  .20  .20  .20
       VCNX     4.   4.   4.   4.   4.   4.   4.   4.   4.   4.   4.   4.

    Urban - high biogenic (controls present)
       BCKPMF  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.
       OFRAC  .25  .25  .30  .30  .30  .55  .55  .55  .35  .35  .35  .25
       VCNX    15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.

    Regional Plume
       BCKPMF  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.
       OFRAC  .20  .20  .25  .35  .25  .40  .40  .40  .30  .30  .30  .20
```

```
       VCNX    15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.

     Urban - no controls present
        BCKPMF 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100.
        OFRAC  .30  .30  .35  .35  .35  .55  .55  .55  .35  .35  .35  .30
        VCNX     2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.

     Default: Clean Continental
     !  BCKPMF = 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00 !
     !  OFRAC  = 0.15, 0.15, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.15 !
     !  VCNX   = 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00,
     50.00 !

 --- End Data for SECONDARY ORGANIC AEROSOL (SOA) Option


     Number of half-life decay specification blocks provided in Subgroup 11b
     (Used only if MCHEM = 5)
     (NDECAY)                                    Default: 0      ! NDECAY =  0   !

!END!


--------------
Subgroup (11b)
--------------

     Each species modeled may be assigned a decay half-life (sec), and the associated
     mass lost may be assigned to one or more other modeled species using a mass yield
     factor. This information is used only for MCHEM=5.

     Provide NDECAY blocks assigning the half-life for a parent species and mass yield
     factors for each child species (if any) produced by the decay.
     Set HALF_LIFE=0.0 for NO decay (infinite half-life).


                              a            b
        SPECIES      Half-Life   Mass Yield
         NAME          (sec)       Factor
        -------      ---------   ----------

     *   SPEC1   =    3600.,        -1.0   *    (Parent)
     *   SPEC2   =     -1.0,         0.0   *    (Child)
    *END*


--------
    a
     Specify a half life that is greater than or equal to zero for 1 parent species
     in each block, and set the yield factor for this species to -1
    b
     Specify a yield factor that is greater than or equal to zero for 1 or more child
     species in each block, and set the half-life for each of these species to -1

     NOTE: Assignments in each block are treated as a separate input
           subgroup and therefore must end with an input group terminator.
```

If NDECAY=0, no assignments and input group terminators should appear.

INPUT GROUP: 12 -- Misc. Dispersion and Computational Parameters
---

Horizontal size of puff (m) beyond which
time-dependent dispersion equations (Heffter)
are used to determine sigma-y and
sigma-z (SYTDEP) Default: 550. ! SYTDEP = 550. !

Switch for using Heffter equation for sigma z
as above (0 = Not use Heffter; 1 = use Heffter
(MHFTSZ) Default: 0 ! MHFTSZ = 0 !

Stability class used to determine plume
growth rates for puffs above the boundary
layer (JSUP) Default: 5 ! JSUP = 5 !

Vertical dispersion constant for stable
conditions (k1 in Eqn. 2.7-3) (CONK1) Default: 0.01 ! CONK1 = 0.01 !

Vertical dispersion constant for neutral/
unstable conditions (k2 in Eqn. 2.7-4)
(CONK2) Default: 0.1 ! CONK2 = 0.1 !

Factor for determining Transition-point from
Schulman-Scire to Huber-Snyder Building Downwash
scheme (SS used for Hs < Hb + TBD * HL)
(TBD) Default: 0.5 ! TBD = 0.5 !
TBD < 0 ==> always use Huber-Snyder
TBD = 1.5 ==> always use Schulman-Scire
TBD = 0.5 ==> ISC Transition-point

Range of land use categories for which
urban dispersion is assumed
(IURB1, IURB2) Default: 10 ! IURB1 = 10 !
19 ! IURB2 = 19 !

Site characterization parameters for single-point Met data files ---
(needed for METFM = 2,3,4,5)

Land use category for modeling domain
(ILANDUIN) Default: 20 ! ILANDUIN = 20 !

Roughness length (m) for modeling domain
(Z0IN) Default: 0.25 ! Z0IN = 0.25 !

Leaf area index for modeling domain
(XLAIIN) Default: 3.0 ! XLAIIN = 3.0 !

Elevation above sea level (m)
(ELEVIN) Default: 0.0 ! ELEVIN = 0.0 !

```
   Latitude (degrees) for met location
   (XLATIN)                              Default: -999.  ! XLATIN = -999. !

   Longitude (degrees) for met location
   (XLONIN)                              Default: -999.  ! XLONIN = -999. !

Specialized information for interpreting single-point Met data files -----

   Anemometer height (m) (Used only if METFM = 2,3)
   (ANEMHT)                              Default: 10.    ! ANEMHT = 10.0 !

   Form of lateral turbulance data in PROFILE.DAT file
   (Used only if METFM = 4,5 or MTURBVW = 1 or 3)
   (ISIGMAV)                             Default: 1      ! ISIGMAV =   1 !
       0 = read sigma-theta
       1 = read sigma-v

   Choice of mixing heights (Used only if METFM = 4)
   (IMIXCTDM)                            Default: 0      ! IMIXCTDM =  0 !
       0 = read PREDICTED mixing heights
       1 = read OBSERVED mixing heights

Maximum length of a slug (met. grid units)
(XMXLEN)                              Default: 1.0    ! XMXLEN =  1.0 !

Maximum travel distance of a puff/slug (in
grid units) during one sampling step
(XSAMLEN)                             Default: 1.0    ! XSAMLEN = 1.0 !

Maximum Number of slugs/puffs release from
one source during one time step
(MXNEW)                               Default: 99     ! MXNEW =  99   !

Maximum Number of sampling steps for
one puff/slug during one time step
(MXSAM)                               Default: 99     ! MXSAM =  99   !

Number of iterations used when computing
the transport wind for a sampling step
that includes gradual rise (for CALMET
and PROFILE winds)
(NCOUNT)                              Default: 2      ! NCOUNT =  2  !

Minimum sigma y for a new puff/slug (m)
(SYMIN)                               Default: 1.0    ! SYMIN = 1.0  !

Minimum sigma z for a new puff/slug (m)
(SZMIN)                               Default: 1.0    ! SZMIN = 1.0  !

Maximum sigma z (m) allowed to avoid
numerical problem in calculating virtual
time or distance.  Cap should be large
enough to have no influence on normal events.
Enter a negative cap to disable.
```

(SZCAP_M) Default: 5.0E06 ! SZCAP_M = 5.0E06 !

Default minimum turbulence velocities sigma-v and sigma-w
for each stability class over land and over water (m/s)
(SVMIN(12) and SWMIN(12))

	LAND						WATER					
Stab Class :	A	B	C	D	E	F	A	B	C	D	E	F
Default SVMIN :	.50,	.50,	.50,	.50,	.50,	.50,	.37,	.37,	.37,	.37,	.37,	.37
Default SWMIN :	.20,	.12,	.08,	.06,	.03,	.016,	.20,	.12,	.08,	.06,	.03,	.016

! SVMIN = 0.500, 0.500, 0.500, 0.500, 0.500, 0.500, 0.370, 0.370, 0.370, 0.370,
0.370, 0.370!
! SWMIN = 0.200, 0.120, 0.080, 0.060, 0.030, 0.016, 0.200, 0.120, 0.080, 0.060,
0.030, 0.016!

Divergence criterion for dw/dz across puff
used to initiate adjustment for horizontal
convergence (1/s)
Partial adjustment starts at CDIV(1), and
full adjustment is reached at CDIV(2)
(CDIV(2)) Default: 0.0,0.0 ! CDIV = 0.0, 0.0 !

Search radius (number of cells) for nearest
land and water cells used in the subgrid
TIBL module
(NLUTIBL) Default: 4 ! NLUTIBL = 4 !

Minimum wind speed (m/s) allowed for
non-calm conditions. Also used as minimum
speed returned when using power-law
extrapolation toward surface
(WSCALM) Default: 0.5 ! WSCALM = 0.5 !

Maximum mixing height (m)
(XMAXZI) Default: 3000. ! XMAXZI = 3000.0 !

Minimum mixing height (m)
(XMINZI) Default: 50. ! XMINZI = 50. !

Default wind speed classes --
5 upper bounds (m/s) are entered;
the 6th class has no upper limit
(WSCAT(5)) Default :
ISC RURAL : 1.54, 3.09, 5.14, 8.23, 10.80 (10.8+)

	Wind Speed Class :	1	2	3	4	5
! WSCAT =	1.54,	3.09,	5.14,	8.23,	10.80 !	

Default wind speed profile power-law
exponents for stabilities 1-6
(PLX0(6)) Default : ISC RURAL values
ISC RURAL : .07, .07, .10, .15, .35, .55

```
                              ISC URBAN : .15, .15, .20, .25, .30, .30

                          Stability Class :  A     B     C     D     E     F
                                            ---   ---   ---   ---   ---   ---
                                  ! PLX0 = 0.07, 0.07, 0.10, 0.15, 0.35, 0.55 !

Default potential temperature gradient
for stable classes E, F (degK/m)
(PTG0(2))                         Default:    0.020,   0.035
                                     ! PTG0 = 0.020,   0.035 !

Default plume path coefficients for
each stability class (used when option
for partial plume height terrain adjustment
is selected -- MCTADJ=3)
(PPC(6))                  Stability Class :  A     B     C     D     E     F
                             Default  PPC : .50,  .50,  .50,  .50,  .35,  .35
                                            ---   ---   ---   ---   ---   ---
                                  !  PPC = 0.50, 0.50, 0.50, 0.50, 0.35, 0.35 !

Slug-to-puff transition criterion factor
equal to sigma-y/length of slug
(SL2PF)                              Default: 10.        ! SL2PF = 10.0 !

Puff-splitting control variables -----------------------

  VERTICAL SPLIT
  --------------

  Number of puffs that result every time a puff
  is split - nsplit=2 means that 1 puff splits
  into 2
  (NSPLIT)                           Default:   3        ! NSPLIT =  3  !

  Time(s) of a day when split puffs are eligible to
  be split once again; this is typically set once
  per day, around sunset before nocturnal shear develops.
  24 values: 0 is midnight (00:00) and 23 is 11 PM (23:00)
  0=do not re-split    1=eligible for re-split
  (IRESPLIT(24))                     Default:  Hour 17 = 1
  !  IRESPLIT = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0 !

  Split is allowed only if last hour's mixing
  height (m) exceeds a minimum value
  (ZISPLIT)                          Default: 100.       ! ZISPLIT = 100.0 !

  Split is allowed only if ratio of last hour's
  mixing ht to the maximum mixing ht experienced
  by the puff is less than a maximum value (this
  postpones a split until a nocturnal layer develops)
  (ROLDMAX)                          Default: 0.25       ! ROLDMAX = 0.25 !


  HORIZONTAL SPLIT
  ----------------
```

```
  Number of puffs that result every time a puff
  is split - nsplith=5 means that 1 puff splits
  into 5
  (NSPLITH)                          Default:   5        ! NSPLITH =  5   !

  Minimum sigma-y (Grid Cells Units) of puff
  before it may be split
  (SYSPLITH)                         Default:  1.0       ! SYSPLITH = 1.0 !

  Minimum puff elongation rate (SYSPLITH/hr) due to
  wind shear, before it may be split
  (SHSPLITH)                         Default:  2.        ! SHSPLITH = 2.0 !

  Minimum concentration (g/m^3) of each
  species in puff before it may be split
  Enter array of NSPEC values; if a single value is
  entered, it will be used for ALL species
  (CNSPLITH)                         Default:  1.0E-07   ! CNSPLITH = 1.0E-07 !

Integration control variables ------------------------

  Fractional convergence criterion for numerical SLUG
  sampling integration
  (EPSSLUG)                          Default:   1.0E-04  ! EPSSLUG =  1.0E-04 !

  Fractional convergence criterion for numerical AREA
  source integration
  (EPSAREA)                          Default:   1.0E-06  ! EPSAREA =  1.0E-06 !

  Trajectory step-length (m) used for numerical rise
  integration
  (DSRISE)                           Default:   1.0      ! DSRISE = 1.0 !

  Boundary Condition (BC) Puff control variables ------------------------

  Minimum height (m) to which BC puffs are mixed as they are emitted
  (MBCON=2 ONLY).  Actual height is reset to the current mixing height
  at the release point if greater than this minimum.
  (HTMINBC)                          Default:   500.     ! HTMINBC = 500.0 !

  Search radius (km) about a receptor for sampling nearest BC puff.
  BC puffs are typically emitted with a spacing of one grid cell
  length, so the search radius should be greater than DGRIDKM.
  (RSAMPBC)                          Default:   10.      ! RSAMPBC = 10.0  !

  Near-Surface depletion adjustment to concentration profile used when
  sampling BC puffs?
  (MDEPBC)                           Default:   1        ! MDEPBC =  1  !
     0 = Concentration is NOT adjusted for depletion
     1 = Adjust Concentration for depletion

!END!
```

```
-------------------------------------------------------------------------------


INPUT GROUPS: 13a, 13b, 13c, 13d -- Point source parameters
--------------------------------

---------------
Subgroup (13a)
---------------

     Number of point sources with
     parameters provided below      (NPT1)  No default  !  NPT1 =   0  !

     Units used for point source
     emissions below                (IPTU)  Default: 1  !  IPTU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min
           7 =     metric tons/yr
           8 =     Bq/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (13d)        (NSPT1) Default: 0  !  NSPT1 =  0  !

     Number of point sources with
     variable emission parameters
     provided in external file      (NPT2)  No default  !  NPT2  =  0  !

     (If NPT2 > 0, these point
     source emissions are read from
     the file: PTEMARB.DAT)

!END!

---------------
Subgroup (13b)
---------------
                                      a
          POINT SOURCE: CONSTANT DATA
          -----------------------------
                                                                                b          c
  Source       X          Y        Stack    Base      Stack    Exit  Exit    Bldg.  Emission
   No.     Coordinate Coordinate Height Elevation Diameter  Vel.  Temp.   Dwash   Rates
              (km)       (km)       (m)      (m)        (m)   (m/s) (deg. K)
  ------   ---------- ---------- ------  ------   -------- ----- -------- ----- --------


--------
    a
```

Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

SRCNAM is a 12-character name for a source
(No default)
X is an array holding the source data listed by the column headings
(No default)
SIGYZI is an array holding the initial sigma-y and sigma-z (m)
(Default: 0.,0.)
FMFAC is a vertical momentum flux factor (0. or 1.0) used to represent
the effect of rain-caps or other physical configurations that
reduce momentum rise associated with the actual exit velocity.
(Default: 1.0 -- full momentum used)
ZPLTFM is the platform height (m) for sources influenced by an isolated
structure that has a significant open area between the surface
and the bulk of the structure, such as an offshore oil platform.
The Base Elevation is that of the surface (ground or ocean),
and the Stack Height is the release height above the Base (not
above the platform). Building heights entered in Subgroup 13c
must be those of the buildings on the platform, measured from
the platform deck. ZPLTFM is used only with MBDW=1 (ISC
downwash method) for sources with building downwash.
(Default: 0.0)

b
0. = No building downwash modeled
1. = Downwash modeled for buildings resting on the surface
2. = Downwash modeled for buildings raised above the surface (ZPLTFM > 0.)
NOTE: must be entered as a REAL number (i.e., with decimal point)

c
An emission rate must be entered for every pollutant modeled.
Enter emission rate of zero for secondary pollutants that are
modeled, but not emitted. Units are specified by IPTU
(e.g. 1 for g/s).

Subgroup (13c)

BUILDING DIMENSION DATA FOR SOURCES SUBJECT TO DOWNWASH

Source No.	Effective building height, width, length and X/Y offset (in meters) every 10 degrees. LENGTH, XBADJ, and YBADJ are only needed for MBDW=2 (PRIME downwash option) [a]

---

a
Building height, width, length, and X/Y offset from the source are treated
as a separate input subgroup for each source and therefore must end with
an input group terminator. The X/Y offset is the position, relative to the
stack, of the center of the upwind face of the projected building, with the

x-axis pointing along the flow direction.

Subgroup (13d)
---

a
POINT SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission rates given in 13b. Factors entered multiply the rates in 13b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use PTEMARB.DAT and NPT2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 =	Constant	
1 =	Diurnal cycle	(24 scaling factors: hours 1-24)
2 =	Monthly cycle	(12 scaling factors: months 1-12)
3 =	Hour & Season	(4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 =	Speed & Stab.	(6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 =	Temperature	(12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---
a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 14a, 14b, 14c, 14d -- Area source parameters

Subgroup (14a)

Number of polygon area sources with parameters specified below (NAR1) No default ! NAR1 = 0 !

Units used for area source emissions below (IARU) Default: 1 ! IARU = 1 !

1 =	g/m**2/s
2 =	kg/m**2/hr
3 =	lb/m**2/hr

```
           4 =     tons/m**2/yr
           5 =     Odour Unit * m/s  (vol. flux/m**2 of odour compound)
           6 =     Odour Unit * m/min
           7 =     metric tons/m**2/yr
           8 =     Bq/m**2/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/m**2/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (14d)        (NSAR1) Default: 0  !  NSAR1 =  0  !

     Number of buoyant polygon area sources
     with variable location and emission
     parameters (NAR2)                      No default  !  NAR2  =  7  !
     (If NAR2 > 0, ALL parameter data for
     these sources are read from the file: BAEMARB.DAT)

!END!

---------------
Subgroup (14b)
---------------
                                    a
          AREA SOURCE: CONSTANT DATA
          --------------------------
                                                          b
Source           Effect.    Base      Initial    Emission
 No.             Height   Elevation   Sigma z     Rates
                   (m)       (m)        (m)
-------          ------    ------     --------   ---------


--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.
    b
     An emission rate must be entered for every pollutant modeled.
     Enter emission rate of zero for secondary pollutants that are
     modeled, but not emitted.  Units are specified by IARU
     (e.g. 1 for g/m**2/s).

---------------
Subgroup (14c)
---------------

          COORDINATES (km) FOR EACH VERTEX(4) OF EACH POLYGON
          ---------------------------------------------------------
Source                                                              a
 No.      Ordered list of X followed by list of Y, grouped by source
------    ------------------------------------------------------------



--------
```

a
Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

Subgroup (14d)
---

a
AREA SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission
rates given in 14b. Factors entered multiply the rates in 14b.
Skip sources here that have constant emissions. For more elaborate
variation in source parameters, use BAEMARB.DAT and NAR2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 =	Constant	
1 =	Diurnal cycle	(24 scaling factors: hours 1-24)
2 =	Monthly cycle	(12 scaling factors: months 1-12)
3 =	Hour & Season	(4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 =	Speed & Stab.	(6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 =	Temperature	(12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---
a
Data for each species are treated as a separate input subgroup
and therefore must end with an input group terminator.

INPUT GROUPS: 15a, 15b, 15c -- Line source parameters

Subgroup (15a)

Number of buoyant line sources
with variable location and emission
parameters (NLN2) No default ! NLN2 = 0 !

(If NLN2 > 0, ALL parameter data for
these sources are read from the file: LNEMARB.DAT)

```
    Number of buoyant line sources (NLINES)        No default  ! NLINES =  0 !

    Units used for line source
    emissions below                (ILNU)          Default: 1  ! ILNU =    1 !
          1 =        g/s
          2 =       kg/hr
          3 =       lb/hr
          4 =     tons/yr
          5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
          6 =     Odour Unit * m**3/min
          7 =     metric tons/yr
          8 =     Bq/s  (Bq = becquerel = disintegrations/s)
          9 =     GBq/yr

    Number of source-species
    combinations with variable
    emissions scaling factors
    provided below in (15c)        (NSLN1) Default: 0  !  NSLN1 =  0  !

    Maximum number of segments used to model
    each line (MXNSEG)                             Default: 7   ! MXNSEG =  7  !

    The following variables are required only if NLINES > 0.  They are
    used in the buoyant line source plume rise calculations.

       Number of distances at which                Default: 6   ! NLRISE =  6  !
       transitional rise is computed

       Average building length (XL)                No default   ! XL =  .0 !
                                                   (in meters)

       Average building height (HBL)               No default   ! HBL = .0 !
                                                   (in meters)

       Average building width (WBL)                No default   ! WBL = .0 !
                                                   (in meters)

       Average line source width (WML)             No default   ! WML = .0 !
                                                   (in meters)

       Average separation between buildings (DXL)  No default   ! DXL = .0 !
                                                   (in meters)

       Average buoyancy parameter (FPRIMEL)        No default   ! FPRIMEL = .0 !
                                                   (in m**4/s**3)

!END!

---------------
Subgroup (15b)
---------------

         BUOYANT LINE SOURCE: CONSTANT DATA
         ----------------------------------
```

Source No.	Beg. X Coordinate (km)	Beg. Y Coordinate (km)	End. X Coordinate (km)	End. Y Coordinate (km)	Release Height (m)	Base Elevation (m)	Emission Rates[a]

---

[a] Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

[b] An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by ILNTU (e.g. 1 for g/s).

Subgroup (15c)

BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters

Subgroup (16a)

Number of volume sources with parameters provided in 16b,c (NVL1) No default ! NVL1 = 0 !

Units used for volume source emissions below in 16b (IVLU) Default: 1 ! IVLU = 1 !

1 = g/s
2 = kg/hr
3 = lb/hr
4 = tons/yr
5 = Odour Unit * m**3/s (vol. flux of odour compound)
6 = Odour Unit * m**3/min
7 = metric tons/yr
8 = Bq/s (Bq = becquerel = disintegrations/s)
9 = GBq/yr

Number of source-species combinations with variable emissions scaling factors provided below in (16c) (NSVL1) Default: 0 ! NSVL1 = 0 !

Number of volume sources with variable location and emission parameters (NVL2) No default ! NVL2 = 541 !

(If NVL2 > 0, ALL parameter data for these sources are read from the VOLEMARB.DAT file(s))

!END!

Subgroup (16b)
---

a

VOLUME SOURCE: CONSTANT DATA

b

X Coordinate (km)	Y Coordinate (km)	Effect. Height (m)	Base Elevation (m)	Initial Sigma y (m)	Initial Sigma z (m)	Emission Rates

---

a
Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

b

An emission rate must be entered for every pollutant modeled.
Enter emission rate of zero for secondary pollutants that are
modeled, but not emitted. Units are specified by IVLU
(e.g. 1 for g/s).

Subgroup (16c)
---

a
VOLUME SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission
rates given in 16b. Factors entered multiply the rates in 16b.
Skip sources here that have constant emissions. For more elaborate
variation in source parameters, use VOLEMARB.DAT and NVL2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 =	Constant	
1 =	Diurnal cycle	(24 scaling factors: hours 1-24)
2 =	Monthly cycle	(12 scaling factors: months 1-12)
3 =	Hour & Season	(4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 =	Speed & Stab.	(6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 =	Temperature	(12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---
a
Data for each species are treated as a separate input subgroup
and therefore must end with an input group terminator.

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information
---

Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 4040 !

!END!

Subgroup (17b)

---

a

NON-GRIDDED (DISCRETE) RECEPTOR DATA

Receptor No.	X Coordinate (km)	Y Coordinate (km)	Ground Elevation (m)	Height Above Ground (m)	b	
DSC0001	X = 651.8752,	6087.999,	469.251,	0	!END!	CABIN_01
DSC0002	X = 651.8900,	6087.983,	469.535,	0	!END!	CABIN_02
DSC0003	X = 652.0015,	6087.882,	471.464,	0	!END!	CABIN_03
DSC0004	X = 652.1537,	6087.803,	468.172,	0	!END!	CABIN_04
DSC0005	X = 652.2349,	6087.710,	468.000,	0	!END!	CABIN_05
DSC0006	X = 652.2907,	6087.660,	468.000,	0	!END!	CABIN_06
DSC0007	X = 652.4793,	6087.518,	468.005,	0	!END!	CABIN_07
DSC0008	X = 652.5193,	6087.450,	468.321,	0	!END!	CABIN_08
DSC0009	X = 652.5733,	6087.381,	468.013,	0	!END!	CABIN_09
DSC0010	X = 652.6302,	6087.358,	468.000,	0	!END!	CABIN_10
DSC0011	X = 652.7350,	6087.279,	469.178,	0	!END!	CABIN_11
DSC0012	X = 652.8230,	6087.281,	468.000,	0	!END!	CABIN_12
DSC0013	X = 652.8327,	6087.143,	472.445,	0	!END!	CABIN_13
DSC0014	X = 652.8339,	6087.241,	468.000,	0	!END!	CABIN_14
DSC0015	X = 652.8504,	6087.199,	468.016,	0	!END!	CABIN_15
DSC0016	X = 652.8937,	6087.144,	468.000,	0	!END!	CABIN_16
DSC0017	X = 652.9159,	6087.060,	468.149,	0	!END!	CABIN_17
DSC0018	X = 652.9328,	6087.065,	468.000,	0	!END!	CABIN_18
DSC0019	X = 652.9407,	6087.034,	468.109,	0	!END!	CABIN_19
DSC0020	X = 653.0317,	6085.621,	513.993,	0	!END!	CABIN_20
DSC0021	X = 653.0557,	6086.890,	468.000,	0	!END!	CABIN_21
DSC0022	X = 653.1339,	6086.705,	468.000,	0	!END!	CABIN_22
DSC0023	X = 653.1464,	6086.675,	468.000,	0	!END!	CABIN_23
DSC0024	X = 653.1622,	6086.632,	468.000,	0	!END!	CABIN_24
DSC0025	X = 653.1769,	6085.988,	485.576,	0	!END!	CABIN_25
DSC0026	X = 653.2250,	6086.491,	468.000,	0	!END!	CABIN_26
DSC0027	X = 653.3070,	6086.343,	468.000,	0	!END!	CABIN_27
DSC0028	X = 653.3532,	6086.238,	468.000,	0	!END!	CABIN_28
DSC0029	X = 653.3660,	6086.207,	468.000,	0	!END!	CABIN_29
DSC0030	X = 653.3946,	6086.134,	468.000,	0	!END!	CABIN_30
DSC0031	X = 653.4201,	6086.071,	468.000,	0	!END!	CABIN_31
DSC0032	X = 653.4377,	6085.998,	468.300,	0	!END!	CABIN_32
DSC0033	X = 653.4442,	6085.973,	468.785,	0	!END!	CABIN_33
DSC0034	X = 653.4481,	6085.951,	469.447,	0	!END!	CABIN_34
DSC0035	X = 653.4508,	6085.921,	469.886,	0	!END!	CABIN_35
DSC0036	X = 653.4687,	6085.904,	468.590,	0	!END!	CABIN_36
DSC0037	X = 653.4748,	6085.880,	468.286,	0	!END!	CABIN_37
DSC0038	X = 653.8322,	6085.702,	468.000,	0	!END!	CABIN_38
DSC0039	X = 653.8806,	6085.850,	468.413,	0	!END!	CABIN_39
DSC0040	X = 653.8960,	6085.855,	468.222,	0	!END!	CABIN_40
DSC0041	X = 653.8961,	6085.839,	468.922,	0	!END!	CABIN_41
DSC0042	X = 653.9998,	6085.854,	468.453,	0	!END!	CABIN_42
DSC0043	X = 654.0457,	6087.626,	468.000,	0	!END!	CABIN_43
DSC0044	X = 654.0844,	6085.794,	469.243,	0	!END!	CABIN_44
DSC0045	X = 654.1211,	6085.745,	470.338,	0	!END!	CABIN_45
DSC0046	X = 654.1733,	6085.688,	471.093,	0	!END!	CABIN_46

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DSC0047 ! X =   654.2477,   6085.626,    468.569,    0 !   !END!  CABIN_47
DSC0048 ! X =   654.3663,   6087.039,    468.077,    0 !   !END!  CABIN_48
DSC0049 ! X =   654.3874,   6085.520,    468.906,    0 !   !END!  CABIN_49
DSC0050 ! X =   654.3876,   6085.460,    471.563,    0 !   !END!  CABIN_50
DSC0051 ! X =   654.4009,   6085.428,    471.477,    0 !   !END!  CABIN_51
DSC0052 ! X =   654.4353,   6085.396,    469.314,    0 !   !END!  CABIN_52
DSC0053 ! X =   654.4567,   6085.355,    469.115,    0 !   !END!  CABIN_53
DSC0054 ! X =   654.5008,   6085.281,    469.764,    0 !   !END!  CABIN_54
DSC0055 ! X =   654.6601,   6085.161,    468.706,    0 !   !END!  CABIN_55
DSC0056 ! X =   654.7204,   6085.094,    468.343,    0 !   !END!  CABIN_56
DSC0057 ! X =   657.3000,   6087.300,    506.690,    0 !   !END!  GR_M0001
DSC0058 ! X =   657.3500,   6087.300,    514.733,    0 !   !END!  GR_M0002
DSC0059 ! X =   657.4000,   6087.300,    521.293,    0 !   !END!  GR_M0003
DSC0060 ! X =   657.4500,   6087.300,    527.062,    0 !   !END!  GR_M0004
DSC0061 ! X =   657.5000,   6087.300,    531.232,    0 !   !END!  GR_M0005
DSC0062 ! X =   657.5500,   6087.300,    534.669,    0 !   !END!  GR_M0006
DSC0063 ! X =   657.6000,   6087.300,    537.514,    0 !   !END!  GR_M0007
DSC0064 ! X =   657.6500,   6087.300,    539.638,    0 !   !END!  GR_M0008
DSC0065 ! X =   657.7000,   6087.300,    540.142,    0 !   !END!  GR_M0009
DSC0066 ! X =   657.7500,   6087.300,    537.198,    0 !   !END!  GR_M0010
DSC0067 ! X =   657.8000,   6087.300,    537.619,    0 !   !END!  GR_M0011
DSC0068 ! X =   657.8500,   6087.300,    536.882,    0 !   !END!  GR_M0012
DSC0069 ! X =   657.9000,   6087.300,    536.917,    0 !   !END!  GR_M0013
DSC0070 ! X =   657.9500,   6087.300,    536.064,    0 !   !END!  GR_M0014
DSC0071 ! X =   658.0000,   6087.300,    536.112,    0 !   !END!  GR_M0015
DSC0072 ! X =   658.0500,   6087.300,    536.189,    0 !   !END!  GR_M0016
DSC0073 ! X =   658.1000,   6087.300,    537.000,    0 !   !END!  GR_M0017
DSC0074 ! X =   658.1500,   6087.300,    537.338,    0 !   !END!  GR_M0018
DSC0075 ! X =   658.2000,   6087.300,    537.414,    0 !   !END!  GR_M0019
DSC0076 ! X =   658.2500,   6087.300,    537.491,    0 !   !END!  GR_M0020
DSC0077 ! X =   658.3000,   6087.300,    538.568,    0 !   !END!  GR_M0021
DSC0078 ! X =   657.3000,   6087.350,    506.291,    0 !   !END!  GR_M0022
DSC0079 ! X =   657.3500,   6087.350,    513.394,    0 !   !END!  GR_M0023
DSC0080 ! X =   657.4000,   6087.350,    519.221,    0 !   !END!  GR_M0024
DSC0081 ! X =   657.4500,   6087.350,    524.037,    0 !   !END!  GR_M0025
DSC0082 ! X =   657.5000,   6087.350,    527.051,    0 !   !END!  GR_M0026
DSC0083 ! X =   657.5500,   6087.350,    529.111,    0 !   !END!  GR_M0027
DSC0084 ! X =   657.6000,   6087.350,    530.042,    0 !   !END!  GR_M0028
DSC0085 ! X =   657.6500,   6087.350,    531.272,    0 !   !END!  GR_M0029
DSC0086 ! X =   657.7000,   6087.350,    532.502,    0 !   !END!  GR_M0030
DSC0087 ! X =   657.7500,   6087.350,    532.155,    0 !   !END!  GR_M0031
DSC0088 ! X =   657.8000,   6087.350,    533.654,    0 !   !END!  GR_M0032
DSC0089 ! X =   657.8500,   6087.350,    533.726,    0 !   !END!  GR_M0033
DSC0090 ! X =   657.9000,   6087.350,    533.803,    0 !   !END!  GR_M0034
DSC0091 ! X =   657.9500,   6087.350,    533.880,    0 !   !END!  GR_M0035
DSC0092 ! X =   658.0000,   6087.350,    533.957,    0 !   !END!  GR_M0036
DSC0093 ! X =   658.0500,   6087.350,    535.027,    0 !   !END!  GR_M0037
DSC0094 ! X =   658.1000,   6087.350,    535.106,    0 !   !END!  GR_M0038
DSC0095 ! X =   658.1500,   6087.350,    536.182,    0 !   !END!  GR_M0039
DSC0096 ! X =   658.2000,   6087.350,    536.003,    0 !   !END!  GR_M0040
DSC0097 ! X =   658.2500,   6087.350,    536.336,    0 !   !END!  GR_M0041
DSC0098 ! X =   658.3000,   6087.350,    536.413,    0 !   !END!  GR_M0042
DSC0099 ! X =   657.3000,   6087.400,    504.395,    0 !   !END!  GR_M0043
DSC0100 ! X =   657.3500,   6087.400,    510.950,    0 !   !END!  GR_M0044
DSC0101 ! X =   657.4000,   6087.400,    517.200,    0 !   !END!  GR_M0045
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DSC0102 ! X =   657.4500,   6087.400,    521.010,    0 !   !END!  GR_M0046
DSC0103 ! X =   657.5000,   6087.400,    523.841,    0 !   !END!  GR_M0047
DSC0104 ! X =   657.5500,   6087.400,    530.000,    0 !   !END!  GR_M0048
DSC0105 ! X =   657.6000,   6087.400,    530.000,    0 !   !END!  GR_M0049
DSC0106 ! X =   657.6500,   6087.400,    530.000,    0 !   !END!  GR_M0050
DSC0107 ! X =   657.7000,   6087.400,    530.000,    0 !   !END!  GR_M0051
DSC0108 ! X =   657.7500,   6087.400,    530.000,    0 !   !END!  GR_M0052
DSC0109 ! X =   657.8000,   6087.400,    530.998,    0 !   !END!  GR_M0053
DSC0110 ! X =   657.8500,   6087.400,    531.571,    0 !   !END!  GR_M0054
DSC0111 ! X =   657.9000,   6087.400,    531.648,    0 !   !END!  GR_M0055
DSC0112 ! X =   657.9500,   6087.400,    531.725,    0 !   !END!  GR_M0056
DSC0113 ! X =   658.0000,   6087.400,    531.802,    0 !   !END!  GR_M0057
DSC0114 ! X =   658.0500,   6087.400,    532.878,    0 !   !END!  GR_M0058
DSC0115 ! X =   658.1000,   6087.400,    533.619,    0 !   !END!  GR_M0059
DSC0116 ! X =   658.1500,   6087.400,    534.027,    0 !   !END!  GR_M0060
DSC0117 ! X =   658.2000,   6087.400,    534.104,    0 !   !END!  GR_M0061
DSC0118 ! X =   658.2500,   6087.400,    534.181,    0 !   !END!  GR_M0062
DSC0119 ! X =   658.3000,   6087.400,    532.890,    0 !   !END!  GR_M0063
DSC0120 ! X =   657.3000,   6087.450,    501.499,    0 !   !END!  GR_M0064
DSC0121 ! X =   657.3500,   6087.450,    509.054,    0 !   !END!  GR_M0065
DSC0122 ! X =   657.4000,   6087.450,    515.179,    0 !   !END!  GR_M0066
DSC0123 ! X =   657.4500,   6087.450,    518.811,    0 !   !END!  GR_M0067
DSC0124 ! X =   657.5000,   6087.450,    530.000,    0 !   !END!  GR_M0068
DSC0125 ! X =   657.5500,   6087.450,    530.000,    0 !   !END!  GR_M0069
DSC0126 ! X =   657.6000,   6087.450,    530.000,    0 !   !END!  GR_M0070
DSC0127 ! X =   657.6500,   6087.450,    530.000,    0 !   !END!  GR_M0071
DSC0128 ! X =   657.7000,   6087.450,    530.000,    0 !   !END!  GR_M0072
DSC0129 ! X =   657.7500,   6087.450,    530.000,    0 !   !END!  GR_M0073
DSC0130 ! X =   657.8000,   6087.450,    530.000,    0 !   !END!  GR_M0074
DSC0131 ! X =   657.8500,   6087.450,    530.000,    0 !   !END!  GR_M0075
DSC0132 ! X =   657.9000,   6087.450,    530.000,    0 !   !END!  GR_M0076
DSC0133 ! X =   657.9500,   6087.450,    530.000,    0 !   !END!  GR_M0077
DSC0134 ! X =   658.0000,   6087.450,    530.000,    0 !   !END!  GR_M0078
DSC0135 ! X =   658.0500,   6087.450,    530.446,    0 !   !END!  GR_M0079
DSC0136 ! X =   658.1000,   6087.450,    530.600,    0 !   !END!  GR_M0080
DSC0137 ! X =   658.1500,   6087.450,    530.744,    0 !   !END!  GR_M0081
DSC0138 ! X =   658.2000,   6087.450,    530.846,    0 !   !END!  GR_M0082
DSC0139 ! X =   658.2500,   6087.450,    530.061,    0 !   !END!  GR_M0083
DSC0140 ! X =   658.3000,   6087.450,    530.000,    0 !   !END!  GR_M0084
DSC0141 ! X =   657.3000,   6087.500,    499.095,    0 !   !END!  GR_M0085
DSC0142 ! X =   657.3500,   6087.500,    507.168,    0 !   !END!  GR_M0086
DSC0143 ! X =   657.4000,   6087.500,    512.723,    0 !   !END!  GR_M0087
DSC0144 ! X =   657.4500,   6087.500,    530.000,    0 !   !END!  GR_M0088
DSC0145 ! X =   657.5000,   6087.500,    530.000,    0 !   !END!  GR_M0089
DSC0146 ! X =   657.5500,   6087.500,    530.000,    0 !   !END!  GR_M0090
DSC0147 ! X =   657.6000,   6087.500,    530.000,    0 !   !END!  GR_M0091
DSC0148 ! X =   657.6500,   6087.500,    530.000,    0 !   !END!  GR_M0092
DSC0149 ! X =   657.7000,   6087.500,    530.000,    0 !   !END!  GR_M0093
DSC0150 ! X =   657.7500,   6087.500,    530.000,    0 !   !END!  GR_M0094
DSC0151 ! X =   657.8000,   6087.500,    530.000,    0 !   !END!  GR_M0095
DSC0152 ! X =   657.8500,   6087.500,    530.000,    0 !   !END!  GR_M0096
DSC0153 ! X =   657.9000,   6087.500,    530.000,    0 !   !END!  GR_M0097
DSC0154 ! X =   657.9500,   6087.500,    530.000,    0 !   !END!  GR_M0098
DSC0155 ! X =   658.0000,   6087.500,    530.000,    0 !   !END!  GR_M0099
DSC0156 ! X =   658.0500,   6087.500,    530.000,    0 !   !END!  GR_M0100
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DSC0157 ! X =   658.1000,   6087.500,    530.000,    0 !   !END!  GR_M0101
DSC0158 ! X =   658.1500,   6087.500,    530.000,    0 !   !END!  GR_M0102
DSC0159 ! X =   658.2000,   6087.500,    530.000,    0 !   !END!  GR_M0103
DSC0160 ! X =   658.2500,   6087.500,    530.000,    0 !   !END!  GR_M0104
DSC0161 ! X =   658.3000,   6087.500,    530.000,    0 !   !END!  GR_M0105
DSC0162 ! X =   657.3000,   6087.550,    498.037,    0 !   !END!  GR_M0106
DSC0163 ! X =   657.3500,   6087.550,    505.960,    0 !   !END!  GR_M0107
DSC0164 ! X =   657.4000,   6087.550,    522.787,    0 !   !END!  GR_M0108
DSC0165 ! X =   657.4500,   6087.550,    530.000,    0 !   !END!  GR_M0109
DSC0166 ! X =   657.5000,   6087.550,    530.000,    0 !   !END!  GR_M0110
DSC0167 ! X =   657.5500,   6087.550,    530.000,    0 !   !END!  GR_M0111
DSC0168 ! X =   657.6000,   6087.550,    530.000,    0 !   !END!  GR_M0112
DSC0169 ! X =   657.6500,   6087.550,    530.000,    0 !   !END!  GR_M0113
DSC0170 ! X =   657.7000,   6087.550,    530.000,    0 !   !END!  GR_M0114
DSC0171 ! X =   657.7500,   6087.550,    530.000,    0 !   !END!  GR_M0115
DSC0172 ! X =   657.8000,   6087.550,    530.000,    0 !   !END!  GR_M0116
DSC0173 ! X =   657.8500,   6087.550,    530.000,    0 !   !END!  GR_M0117
DSC0174 ! X =   657.9000,   6087.550,    530.000,    0 !   !END!  GR_M0118
DSC0175 ! X =   657.9500,   6087.550,    530.000,    0 !   !END!  GR_M0119
DSC0176 ! X =   658.0000,   6087.550,    530.000,    0 !   !END!  GR_M0120
DSC0177 ! X =   658.0500,   6087.550,    530.000,    0 !   !END!  GR_M0121
DSC0178 ! X =   658.1000,   6087.550,    530.000,    0 !   !END!  GR_M0122
DSC0179 ! X =   658.1500,   6087.550,    530.000,    0 !   !END!  GR_M0123
DSC0180 ! X =   658.2000,   6087.550,    530.000,    0 !   !END!  GR_M0124
DSC0181 ! X =   658.2500,   6087.550,    530.000,    0 !   !END!  GR_M0125
DSC0182 ! X =   658.3000,   6087.550,    508.334,    0 !   !END!  GR_M0126
DSC0183 ! X =   657.3000,   6087.600,    495.642,    0 !   !END!  GR_M0127
DSC0184 ! X =   657.3500,   6087.600,    515.258,    0 !   !END!  GR_M0128
DSC0185 ! X =   657.4000,   6087.600,    530.000,    0 !   !END!  GR_M0129
DSC0186 ! X =   657.4500,   6087.600,    530.000,    0 !   !END!  GR_M0130
DSC0187 ! X =   657.5000,   6087.600,    530.000,    0 !   !END!  GR_M0131
DSC0188 ! X =   657.5500,   6087.600,    530.000,    0 !   !END!  GR_M0132
DSC0189 ! X =   657.6000,   6087.600,    530.000,    0 !   !END!  GR_M0133
DSC0190 ! X =   657.6500,   6087.600,    530.000,    0 !   !END!  GR_M0134
DSC0191 ! X =   657.7000,   6087.600,    530.000,    0 !   !END!  GR_M0135
DSC0192 ! X =   657.7500,   6087.600,    530.000,    0 !   !END!  GR_M0136
DSC0193 ! X =   657.8000,   6087.600,    530.000,    0 !   !END!  GR_M0137
DSC0194 ! X =   657.8500,   6087.600,    530.000,    0 !   !END!  GR_M0138
DSC0195 ! X =   657.9000,   6087.600,    530.000,    0 !   !END!  GR_M0139
DSC0196 ! X =   657.9500,   6087.600,    530.000,    0 !   !END!  GR_M0140
DSC0197 ! X =   658.0000,   6087.600,    530.000,    0 !   !END!  GR_M0141
DSC0198 ! X =   658.0500,   6087.600,    530.000,    0 !   !END!  GR_M0142
DSC0199 ! X =   658.1000,   6087.600,    530.000,    0 !   !END!  GR_M0143
DSC0200 ! X =   658.1500,   6087.600,    530.000,    0 !   !END!  GR_M0144
DSC0201 ! X =   658.2000,   6087.600,    530.000,    0 !   !END!  GR_M0145
DSC0202 ! X =   658.2500,   6087.600,    530.000,    0 !   !END!  GR_M0146
DSC0203 ! X =   658.3000,   6087.600,    501.120,    0 !   !END!  GR_M0147
DSC0204 ! X =   657.3000,   6087.650,    507.730,    0 !   !END!  GR_M0148
DSC0205 ! X =   657.3500,   6087.650,    528.977,    0 !   !END!  GR_M0149
DSC0206 ! X =   657.4000,   6087.650,    530.000,    0 !   !END!  GR_M0150
DSC0207 ! X =   657.4500,   6087.650,    530.000,    0 !   !END!  GR_M0151
DSC0208 ! X =   657.5000,   6087.650,    530.000,    0 !   !END!  GR_M0152
DSC0209 ! X =   657.5500,   6087.650,    530.000,    0 !   !END!  GR_M0153
DSC0210 ! X =   657.6000,   6087.650,    530.000,    0 !   !END!  GR_M0154
DSC0211 ! X =   657.6500,   6087.650,    530.000,    0 !   !END!  GR_M0155
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DSC0212 ! X =   657.7000,   6087.650,    530.000,    0 !   !END!  GR_M0156
DSC0213 ! X =   657.7500,   6087.650,    530.000,    0 !   !END!  GR_M0157
DSC0214 ! X =   657.8000,   6087.650,    530.000,    0 !   !END!  GR_M0158
DSC0215 ! X =   657.8500,   6087.650,    530.000,    0 !   !END!  GR_M0159
DSC0216 ! X =   657.9000,   6087.650,    530.000,    0 !   !END!  GR_M0160
DSC0217 ! X =   657.9500,   6087.650,    530.000,    0 !   !END!  GR_M0161
DSC0218 ! X =   658.0000,   6087.650,    530.000,    0 !   !END!  GR_M0162
DSC0219 ! X =   658.0500,   6087.650,    530.000,    0 !   !END!  GR_M0163
DSC0220 ! X =   658.1000,   6087.650,    530.000,    0 !   !END!  GR_M0164
DSC0221 ! X =   658.1500,   6087.650,    530.000,    0 !   !END!  GR_M0165
DSC0222 ! X =   658.2000,   6087.650,    530.000,    0 !   !END!  GR_M0166
DSC0223 ! X =   658.2500,   6087.650,    500.266,    0 !   !END!  GR_M0167
DSC0224 ! X =   658.3000,   6087.650,    497.198,    0 !   !END!  GR_M0168
DSC0225 ! X =   657.3000,   6087.700,    521.449,    0 !   !END!  GR_M0169
DSC0226 ! X =   657.3500,   6087.700,    530.000,    0 !   !END!  GR_M0170
DSC0227 ! X =   657.4000,   6087.700,    530.000,    0 !   !END!  GR_M0171
DSC0228 ! X =   657.4500,   6087.700,    530.000,    0 !   !END!  GR_M0172
DSC0229 ! X =   657.5000,   6087.700,    530.000,    0 !   !END!  GR_M0173
DSC0230 ! X =   657.5500,   6087.700,    530.000,    0 !   !END!  GR_M0174
DSC0231 ! X =   657.6000,   6087.700,    530.000,    0 !   !END!  GR_M0175
DSC0232 ! X =   657.6500,   6087.700,    530.000,    0 !   !END!  GR_M0176
DSC0233 ! X =   657.7000,   6087.700,    530.000,    0 !   !END!  GR_M0177
DSC0234 ! X =   657.7500,   6087.700,    530.000,    0 !   !END!  GR_M0178
DSC0235 ! X =   657.8000,   6087.700,    530.000,    0 !   !END!  GR_M0179
DSC0236 ! X =   657.8500,   6087.700,    530.000,    0 !   !END!  GR_M0180
DSC0237 ! X =   657.9000,   6087.700,    530.000,    0 !   !END!  GR_M0181
DSC0238 ! X =   657.9500,   6087.700,    530.000,    0 !   !END!  GR_M0182
DSC0239 ! X =   658.0000,   6087.700,    530.000,    0 !   !END!  GR_M0183
DSC0240 ! X =   658.0500,   6087.700,    530.000,    0 !   !END!  GR_M0184
DSC0241 ! X =   658.1000,   6087.700,    530.000,    0 !   !END!  GR_M0185
DSC0242 ! X =   658.1500,   6087.700,    530.000,    0 !   !END!  GR_M0186
DSC0243 ! X =   658.2000,   6087.700,    522.196,    0 !   !END!  GR_M0187
DSC0244 ! X =   658.2500,   6087.700,    496.749,    0 !   !END!  GR_M0188
DSC0245 ! X =   658.3000,   6087.700,    493.909,    0 !   !END!  GR_M0189
DSC0246 ! X =   657.3000,   6087.750,    518.473,    0 !   !END!  GR_M0190
DSC0247 ! X =   657.3500,   6087.750,    530.000,    0 !   !END!  GR_M0191
DSC0248 ! X =   657.4000,   6087.750,    530.000,    0 !   !END!  GR_M0192
DSC0249 ! X =   657.4500,   6087.750,    530.000,    0 !   !END!  GR_M0193
DSC0250 ! X =   657.5000,   6087.750,    530.000,    0 !   !END!  GR_M0194
DSC0251 ! X =   657.5500,   6087.750,    530.000,    0 !   !END!  GR_M0195
DSC0252 ! X =   657.6000,   6087.750,    530.000,    0 !   !END!  GR_M0196
DSC0253 ! X =   657.6500,   6087.750,    530.000,    0 !   !END!  GR_M0197
DSC0254 ! X =   657.7000,   6087.750,    530.000,    0 !   !END!  GR_M0198
DSC0255 ! X =   657.7500,   6087.750,    530.000,    0 !   !END!  GR_M0199
DSC0256 ! X =   657.8000,   6087.750,    530.000,    0 !   !END!  GR_M0200
DSC0257 ! X =   657.8500,   6087.750,    530.000,    0 !   !END!  GR_M0201
DSC0258 ! X =   657.9000,   6087.750,    530.000,    0 !   !END!  GR_M0202
DSC0259 ! X =   657.9500,   6087.750,    530.000,    0 !   !END!  GR_M0203
DSC0260 ! X =   658.0000,   6087.750,    530.000,    0 !   !END!  GR_M0204
DSC0261 ! X =   658.0500,   6087.750,    530.000,    0 !   !END!  GR_M0205
DSC0262 ! X =   658.1000,   6087.750,    530.000,    0 !   !END!  GR_M0206
DSC0263 ! X =   658.1500,   6087.750,    522.760,    0 !   !END!  GR_M0207
DSC0264 ! X =   658.2000,   6087.750,    495.976,    0 !   !END!  GR_M0208
DSC0265 ! X =   658.2500,   6087.750,    493.371,    0 !   !END!  GR_M0209
DSC0266 ! X =   658.3000,   6087.750,    490.624,    0 !   !END!  GR_M0210
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DSC0267 ! X =   657.3000,   6087.800,    503.649,    0 !   !END!  GR_M0211
DSC0268 ! X =   657.3500,   6087.800,    523.781,    0 !   !END!  GR_M0212
DSC0269 ! X =   657.4000,   6087.800,    530.000,    0 !   !END!  GR_M0213
DSC0270 ! X =   657.4500,   6087.800,    530.000,    0 !   !END!  GR_M0214
DSC0271 ! X =   657.5000,   6087.800,    530.000,    0 !   !END!  GR_M0215
DSC0272 ! X =   657.5500,   6087.800,    530.000,    0 !   !END!  GR_M0216
DSC0273 ! X =   657.6000,   6087.800,    530.000,    0 !   !END!  GR_M0217
DSC0274 ! X =   657.6500,   6087.800,    530.000,    0 !   !END!  GR_M0218
DSC0275 ! X =   657.7000,   6087.800,    530.000,    0 !   !END!  GR_M0219
DSC0276 ! X =   657.7500,   6087.800,    530.000,    0 !   !END!  GR_M0220
DSC0277 ! X =   657.8500,   6087.800,    530.000,    0 !   !END!  GR_M0221
DSC0278 ! X =   657.9000,   6087.800,    530.000,    0 !   !END!  GR_M0222
DSC0279 ! X =   657.9500,   6087.800,    530.000,    0 !   !END!  GR_M0223
DSC0280 ! X =   658.0000,   6087.800,    530.000,    0 !   !END!  GR_M0224
DSC0281 ! X =   658.0500,   6087.800,    530.000,    0 !   !END!  GR_M0225
DSC0282 ! X =   658.1000,   6087.800,    522.162,    0 !   !END!  GR_M0226
DSC0283 ! X =   658.1500,   6087.800,    495.694,    0 !   !END!  GR_M0227
DSC0284 ! X =   658.2000,   6087.800,    492.669,    0 !   !END!  GR_M0228
DSC0285 ! X =   658.2500,   6087.800,    489.946,    0 !   !END!  GR_M0229
DSC0286 ! X =   658.3000,   6087.800,    486.360,    0 !   !END!  GR_M0230
DSC0287 ! X =   657.3000,   6087.850,    488.357,    0 !   !END!  GR_M0231
DSC0288 ! X =   657.3500,   6087.850,    508.957,    0 !   !END!  GR_M0232
DSC0289 ! X =   657.4000,   6087.850,    529.088,    0 !   !END!  GR_M0233
DSC0290 ! X =   657.4500,   6087.850,    530.000,    0 !   !END!  GR_M0234
DSC0291 ! X =   657.5000,   6087.850,    530.000,    0 !   !END!  GR_M0235
DSC0292 ! X =   657.5500,   6087.850,    530.000,    0 !   !END!  GR_M0236
DSC0293 ! X =   657.6000,   6087.850,    530.000,    0 !   !END!  GR_M0237
DSC0294 ! X =   657.6500,   6087.850,    530.000,    0 !   !END!  GR_M0238
DSC0295 ! X =   657.7000,   6087.850,    530.000,    0 !   !END!  GR_M0239
DSC0296 ! X =   657.7500,   6087.850,    530.000,    0 !   !END!  GR_M0240
DSC0297 ! X =   657.8000,   6087.850,    530.000,    0 !   !END!  GR_M0241
DSC0298 ! X =   657.8500,   6087.850,    530.000,    0 !   !END!  GR_M0242
DSC0299 ! X =   657.9000,   6087.850,    530.000,    0 !   !END!  GR_M0243
DSC0300 ! X =   657.9500,   6087.850,    530.000,    0 !   !END!  GR_M0244
DSC0301 ! X =   658.0000,   6087.850,    530.000,    0 !   !END!  GR_M0245
DSC0302 ! X =   658.0500,   6087.850,    521.563,    0 !   !END!  GR_M0246
DSC0303 ! X =   658.1000,   6087.850,    495.558,    0 !   !END!  GR_M0247
DSC0304 ! X =   658.1500,   6087.850,    493.042,    0 !   !END!  GR_M0248
DSC0305 ! X =   658.2000,   6087.850,    489.283,    0 !   !END!  GR_M0249
DSC0306 ! X =   658.2500,   6087.850,    486.238,    0 !   !END!  GR_M0250
DSC0307 ! X =   658.3000,   6087.850,    481.109,    0 !   !END!  GR_M0251
DSC0308 ! X =   657.3000,   6087.900,    487.331,    0 !   !END!  GR_M0252
DSC0309 ! X =   657.3500,   6087.900,    490.877,    0 !   !END!  GR_M0253
DSC0310 ! X =   657.4000,   6087.900,    514.264,    0 !   !END!  GR_M0254
DSC0311 ! X =   657.4500,   6087.900,    530.000,    0 !   !END!  GR_M0255
DSC0312 ! X =   657.5000,   6087.900,    530.000,    0 !   !END!  GR_M0256
DSC0313 ! X =   657.5500,   6087.900,    530.000,    0 !   !END!  GR_M0257
DSC0314 ! X =   657.6000,   6087.900,    530.000,    0 !   !END!  GR_M0258
DSC0315 ! X =   657.6500,   6087.900,    530.000,    0 !   !END!  GR_M0259
DSC0316 ! X =   657.7000,   6087.900,    530.000,    0 !   !END!  GR_M0260
DSC0317 ! X =   657.7500,   6087.900,    530.000,    0 !   !END!  GR_M0261
DSC0318 ! X =   657.8000,   6087.900,    530.000,    0 !   !END!  GR_M0262
DSC0319 ! X =   657.8500,   6087.900,    530.000,    0 !   !END!  GR_M0263
DSC0320 ! X =   657.9000,   6087.900,    530.000,    0 !   !END!  GR_M0264
DSC0321 ! X =   657.9500,   6087.900,    530.000,    0 !   !END!  GR_M0265
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DSC0322 ! X =   658.0000,   6087.900,    520.964,    0 !   !END!  GR_M0266
DSC0323 ! X =   658.0500,   6087.900,    494.167,    0 !   !END!  GR_M0267
DSC0324 ! X =   658.1000,   6087.900,    492.410,    0 !   !END!  GR_M0268
DSC0325 ! X =   658.1500,   6087.900,    489.237,    0 !   !END!  GR_M0269
DSC0326 ! X =   658.2000,   6087.900,    485.446,    0 !   !END!  GR_M0270
DSC0327 ! X =   658.2500,   6087.900,    481.061,    0 !   !END!  GR_M0271
DSC0328 ! X =   658.3000,   6087.900,    476.475,    0 !   !END!  GR_M0272
DSC0329 ! X =   657.3000,   6087.950,    486.295,    0 !   !END!  GR_M0273
DSC0330 ! X =   657.3500,   6087.950,    489.126,    0 !   !END!  GR_M0274
DSC0331 ! X =   657.4000,   6087.950,    492.140,    0 !   !END!  GR_M0275
DSC0332 ! X =   657.4500,   6087.950,    519.572,    0 !   !END!  GR_M0276
DSC0333 ! X =   657.5000,   6087.950,    530.000,    0 !   !END!  GR_M0277
DSC0334 ! X =   657.5500,   6087.950,    530.000,    0 !   !END!  GR_M0278
DSC0335 ! X =   657.6000,   6087.950,    530.000,    0 !   !END!  GR_M0279
DSC0336 ! X =   657.6500,   6087.950,    530.000,    0 !   !END!  GR_M0280
DSC0337 ! X =   657.7000,   6087.950,    530.000,    0 !   !END!  GR_M0281
DSC0338 ! X =   657.7500,   6087.950,    530.000,    0 !   !END!  GR_M0282
DSC0339 ! X =   657.8000,   6087.950,    530.000,    0 !   !END!  GR_M0283
DSC0340 ! X =   657.8500,   6087.950,    530.000,    0 !   !END!  GR_M0284
DSC0341 ! X =   657.9000,   6087.950,    530.000,    0 !   !END!  GR_M0285
DSC0342 ! X =   657.9500,   6087.950,    520.365,    0 !   !END!  GR_M0286
DSC0343 ! X =   658.0000,   6087.950,    492.527,    0 !   !END!  GR_M0287
DSC0344 ! X =   658.0500,   6087.950,    490.978,    0 !   !END!  GR_M0288
DSC0345 ! X =   658.1000,   6087.950,    488.382,    0 !   !END!  GR_M0289
DSC0346 ! X =   658.1500,   6087.950,    484.117,    0 !   !END!  GR_M0290
DSC0347 ! X =   658.2000,   6087.950,    479.849,    0 !   !END!  GR_M0291
DSC0348 ! X =   658.2500,   6087.950,    476.099,    0 !   !END!  GR_M0292
DSC0349 ! X =   658.3000,   6087.950,    472.480,    0 !   !END!  GR_M0293
DSC0350 ! X =   657.3000,   6088.000,    485.930,    0 !   !END!  GR_M0294
DSC0351 ! X =   657.3500,   6088.000,    488.135,    0 !   !END!  GR_M0295
DSC0352 ! X =   657.4000,   6088.000,    490.917,    0 !   !END!  GR_M0296
DSC0353 ! X =   657.4500,   6088.000,    504.748,    0 !   !END!  GR_M0297
DSC0354 ! X =   657.5000,   6088.000,    524.000,    0 !   !END!  GR_M0298
DSC0355 ! X =   657.5500,   6088.000,    524.164,    0 !   !END!  GR_M0299
DSC0356 ! X =   657.6000,   6088.000,    530.000,    0 !   !END!  GR_M0300
DSC0357 ! X =   657.6500,   6088.000,    530.000,    0 !   !END!  GR_M0301
DSC0358 ! X =   657.7000,   6088.000,    530.000,    0 !   !END!  GR_M0302
DSC0359 ! X =   657.7500,   6088.000,    530.000,    0 !   !END!  GR_M0303
DSC0360 ! X =   657.8000,   6088.000,    527.752,    0 !   !END!  GR_M0304
DSC0361 ! X =   657.8500,   6088.000,    524.000,    0 !   !END!  GR_M0305
DSC0362 ! X =   657.9000,   6088.000,    519.766,    0 !   !END!  GR_M0306
DSC0363 ! X =   657.9500,   6088.000,    490.709,    0 !   !END!  GR_M0307
DSC0364 ! X =   658.0000,   6088.000,    488.067,    0 !   !END!  GR_M0308
DSC0365 ! X =   658.0500,   6088.000,    485.554,    0 !   !END!  GR_M0309
DSC0366 ! X =   658.1000,   6088.000,    481.142,    0 !   !END!  GR_M0310
DSC0367 ! X =   658.1500,   6088.000,    476.691,    0 !   !END!  GR_M0311
DSC0368 ! X =   658.2000,   6088.000,    474.013,    0 !   !END!  GR_M0312
DSC0369 ! X =   658.2500,   6088.000,    471.853,    0 !   !END!  GR_M0313
DSC0370 ! X =   658.3000,   6088.000,    470.316,    0 !   !END!  GR_M0314
DSC0371 ! X =   657.3000,   6088.050,    485.387,    0 !   !END!  GR_M0315
DSC0372 ! X =   657.3500,   6088.050,    487.218,    0 !   !END!  GR_M0316
DSC0373 ! X =   657.4000,   6088.050,    489.883,    0 !   !END!  GR_M0317
DSC0374 ! X =   657.4500,   6088.050,    491.719,    0 !   !END!  GR_M0318
DSC0375 ! X =   657.5000,   6088.050,    510.056,    0 !   !END!  GR_M0319
DSC0376 ! X =   657.5500,   6088.050,    524.000,    0 !   !END!  GR_M0320
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DSC0377 ! X =   657.6000,   6088.050,    524.000,    0 !   !END!  GR_M0321
DSC0378 ! X =   657.6500,   6088.050,    524.000,    0 !   !END!  GR_M0322
DSC0379 ! X =   657.7000,   6088.050,    524.000,    0 !   !END!  GR_M0323
DSC0380 ! X =   657.7500,   6088.050,    524.000,    0 !   !END!  GR_M0324
DSC0381 ! X =   657.8000,   6088.050,    524.000,    0 !   !END!  GR_M0325
DSC0382 ! X =   657.8500,   6088.050,    519.167,    0 !   !END!  GR_M0326
DSC0383 ! X =   657.9000,   6088.050,    491.438,    0 !   !END!  GR_M0327
DSC0384 ! X =   657.9500,   6088.050,    486.264,    0 !   !END!  GR_M0328
DSC0385 ! X =   658.0000,   6088.050,    481.758,    0 !   !END!  GR_M0329
DSC0386 ! X =   658.0500,   6088.050,    477.186,    0 !   !END!  GR_M0330
DSC0387 ! X =   658.1000,   6088.050,    472.507,    0 !   !END!  GR_M0331
DSC0388 ! X =   658.1500,   6088.050,    470.041,    0 !   !END!  GR_M0332
DSC0389 ! X =   658.2000,   6088.050,    470.182,    0 !   !END!  GR_M0333
DSC0390 ! X =   658.2500,   6088.050,    469.568,    0 !   !END!  GR_M0334
DSC0391 ! X =   658.3000,   6088.050,    469.000,    0 !   !END!  GR_M0335
DSC0392 ! X =   657.3000,   6088.100,    484.379,    0 !   !END!  GR_M0336
DSC0393 ! X =   657.3500,   6088.100,    486.263,    0 !   !END!  GR_M0337
DSC0394 ! X =   657.4000,   6088.100,    488.105,    0 !   !END!  GR_M0338
DSC0395 ! X =   657.4500,   6088.100,    489.976,    0 !   !END!  GR_M0339
DSC0396 ! X =   657.5000,   6088.100,    492.502,    0 !   !END!  GR_M0340
DSC0397 ! X =   657.5500,   6088.100,    515.363,    0 !   !END!  GR_M0341
DSC0398 ! X =   657.6000,   6088.100,    524.000,    0 !   !END!  GR_M0342
DSC0399 ! X =   657.6500,   6088.100,    524.000,    0 !   !END!  GR_M0343
DSC0400 ! X =   657.7000,   6088.100,    524.000,    0 !   !END!  GR_M0344
DSC0401 ! X =   657.7500,   6088.100,    524.000,    0 !   !END!  GR_M0345
DSC0402 ! X =   657.8000,   6088.100,    518.568,    0 !   !END!  GR_M0346
DSC0403 ! X =   657.8500,   6088.100,    492.681,    0 !   !END!  GR_M0347
DSC0404 ! X =   657.9000,   6088.100,    487.145,    0 !   !END!  GR_M0348
DSC0405 ! X =   657.9500,   6088.100,    481.824,    0 !   !END!  GR_M0349
DSC0406 ! X =   658.0000,   6088.100,    476.210,    0 !   !END!  GR_M0350
DSC0407 ! X =   658.0500,   6088.100,    470.942,    0 !   !END!  GR_M0351
DSC0408 ! X =   658.1000,   6088.100,    468.787,    0 !   !END!  GR_M0352
DSC0409 ! X =   658.1500,   6088.100,    468.000,    0 !   !END!  GR_M0353
DSC0410 ! X =   658.2000,   6088.100,    468.927,    0 !   !END!  GR_M0354
DSC0411 ! X =   658.2500,   6088.100,    468.013,    0 !   !END!  GR_M0355
DSC0412 ! X =   658.3000,   6088.100,    468.000,    0 !   !END!  GR_M0356
DSC0413 ! X =   657.3000,   6088.150,    483.418,    0 !   !END!  GR_M0357
DSC0414 ! X =   657.3500,   6088.150,    485.264,    0 !   !END!  GR_M0358
DSC0415 ! X =   657.4000,   6088.150,    487.156,    0 !   !END!  GR_M0359
DSC0416 ! X =   657.4500,   6088.150,    488.648,    0 !   !END!  GR_M0360
DSC0417 ! X =   657.5000,   6088.150,    490.477,    0 !   !END!  GR_M0361
DSC0418 ! X =   657.5500,   6088.150,    500.540,    0 !   !END!  GR_M0362
DSC0419 ! X =   657.6000,   6088.150,    520.671,    0 !   !END!  GR_M0363
DSC0420 ! X =   657.6500,   6088.150,    524.000,    0 !   !END!  GR_M0364
DSC0421 ! X =   657.7000,   6088.150,    524.000,    0 !   !END!  GR_M0365
DSC0422 ! X =   657.7500,   6088.150,    517.969,    0 !   !END!  GR_M0366
DSC0423 ! X =   657.8000,   6088.150,    493.010,    0 !   !END!  GR_M0367
DSC0424 ! X =   657.8500,   6088.150,    489.327,    0 !   !END!  GR_M0368
DSC0425 ! X =   657.9000,   6088.150,    483.299,    0 !   !END!  GR_M0369
DSC0426 ! X =   657.9500,   6088.150,    478.216,    0 !   !END!  GR_M0370
DSC0427 ! X =   658.0000,   6088.150,    472.315,    0 !   !END!  GR_M0371
DSC0428 ! X =   658.0500,   6088.150,    469.054,    0 !   !END!  GR_M0372
DSC0429 ! X =   658.1000,   6088.150,    467.000,    0 !   !END!  GR_M0373
DSC0430 ! X =   658.1500,   6088.150,    467.000,    0 !   !END!  GR_M0374
DSC0431 ! X =   658.2000,   6088.150,    468.000,    0 !   !END!  GR_M0375
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DSC0432 ! X =   658.2500,   6088.150,    468.000,    0 !   !END!  GR_M0376
DSC0433 ! X =   658.3000,   6088.150,    467.371,    0 !   !END!  GR_M0377
DSC0434 ! X =   657.3000,   6088.200,    482.262,    0 !   !END!  GR_M0378
DSC0435 ! X =   657.3500,   6088.200,    484.225,    0 !   !END!  GR_M0379
DSC0436 ! X =   657.4000,   6088.200,    485.654,    0 !   !END!  GR_M0380
DSC0437 ! X =   657.4500,   6088.200,    487.073,    0 !   !END!  GR_M0381
DSC0438 ! X =   657.5000,   6088.200,    488.565,    0 !   !END!  GR_M0382
DSC0439 ! X =   657.5500,   6088.200,    490.868,    0 !   !END!  GR_M0383
DSC0440 ! X =   657.6000,   6088.200,    505.847,    0 !   !END!  GR_M0384
DSC0441 ! X =   657.6500,   6088.200,    524.000,    0 !   !END!  GR_M0385
DSC0442 ! X =   657.7000,   6088.200,    517.370,    0 !   !END!  GR_M0386
DSC0443 ! X =   657.7500,   6088.200,    491.911,    0 !   !END!  GR_M0387
DSC0444 ! X =   657.8000,   6088.200,    489.035,    0 !   !END!  GR_M0388
DSC0445 ! X =   657.8500,   6088.200,    485.054,    0 !   !END!  GR_M0389
DSC0446 ! X =   657.9000,   6088.200,    479.534,    0 !   !END!  GR_M0390
DSC0447 ! X =   657.9500,   6088.200,    474.803,    0 !   !END!  GR_M0391
DSC0448 ! X =   658.0000,   6088.200,    470.707,    0 !   !END!  GR_M0392
DSC0449 ! X =   658.0500,   6088.200,    468.000,    0 !   !END!  GR_M0393
DSC0450 ! X =   658.1000,   6088.200,    467.523,    0 !   !END!  GR_M0394
DSC0451 ! X =   658.1500,   6088.200,    467.000,    0 !   !END!  GR_M0395
DSC0452 ! X =   658.2000,   6088.200,    467.000,    0 !   !END!  GR_M0396
DSC0453 ! X =   658.2500,   6088.200,    467.000,    0 !   !END!  GR_M0397
DSC0454 ! X =   658.3000,   6088.200,    467.000,    0 !   !END!  GR_M0398
DSC0455 ! X =   657.3000,   6088.250,    481.156,    0 !   !END!  GR_M0399
DSC0456 ! X =   657.3500,   6088.250,    482.835,    0 !   !END!  GR_M0400
DSC0457 ! X =   657.4000,   6088.250,    484.261,    0 !   !END!  GR_M0401
DSC0458 ! X =   657.4500,   6088.250,    486.000,    0 !   !END!  GR_M0402
DSC0459 ! X =   657.5000,   6088.250,    487.422,    0 !   !END!  GR_M0403
DSC0460 ! X =   657.5500,   6088.250,    489.370,    0 !   !END!  GR_M0404
DSC0461 ! X =   657.6000,   6088.250,    490.563,    0 !   !END!  GR_M0405
DSC0462 ! X =   657.6500,   6088.250,    511.155,    0 !   !END!  GR_M0406
DSC0463 ! X =   657.7000,   6088.250,    489.717,    0 !   !END!  GR_M0407
DSC0464 ! X =   657.7500,   6088.250,    488.008,    0 !   !END!  GR_M0408
DSC0465 ! X =   657.8000,   6088.250,    484.270,    0 !   !END!  GR_M0409
DSC0466 ! X =   657.8500,   6088.250,    479.668,    0 !   !END!  GR_M0410
DSC0467 ! X =   657.9000,   6088.250,    475.094,    0 !   !END!  GR_M0411
DSC0468 ! X =   657.9500,   6088.250,    472.413,    0 !   !END!  GR_M0412
DSC0469 ! X =   658.0000,   6088.250,    470.096,    0 !   !END!  GR_M0413
DSC0470 ! X =   658.0500,   6088.250,    468.959,    0 !   !END!  GR_M0414
DSC0471 ! X =   658.1000,   6088.250,    468.000,    0 !   !END!  GR_M0415
DSC0472 ! X =   658.1500,   6088.250,    468.000,    0 !   !END!  GR_M0416
DSC0473 ! X =   658.2000,   6088.250,    467.815,    0 !   !END!  GR_M0417
DSC0474 ! X =   658.2500,   6088.250,    467.000,    0 !   !END!  GR_M0418
DSC0475 ! X =   658.3000,   6088.250,    467.000,    0 !   !END!  GR_M0419
DSC0476 ! X =   657.3000,   6088.300,    479.965,    0 !   !END!  GR_M0420
DSC0477 ! X =   657.3500,   6088.300,    481.930,    0 !   !END!  GR_M0421
DSC0478 ! X =   657.4000,   6088.300,    483.070,    0 !   !END!  GR_M0422
DSC0479 ! X =   657.4500,   6088.300,    484.519,    0 !   !END!  GR_M0423
DSC0480 ! X =   657.5000,   6088.300,    486.371,    0 !   !END!  GR_M0424
DSC0481 ! X =   657.5500,   6088.300,    487.926,    0 !   !END!  GR_M0425
DSC0482 ! X =   657.6000,   6088.300,    488.408,    0 !   !END!  GR_M0426
DSC0483 ! X =   657.6500,   6088.300,    486.485,    0 !   !END!  GR_M0427
DSC0484 ! X =   657.7000,   6088.300,    486.123,    0 !   !END!  GR_M0428
DSC0485 ! X =   657.7500,   6088.300,    484.045,    0 !   !END!  GR_M0429
DSC0486 ! X =   657.8000,   6088.300,    479.113,    0 !   !END!  GR_M0430
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DSC0487 ! X =   657.8500,   6088.300,    474.240,    0 !   !END!  GR_M0431
DSC0488 ! X =   657.9000,   6088.300,    471.864,    0 !   !END!  GR_M0432
DSC0489 ! X =   657.9500,   6088.300,    470.941,    0 !   !END!  GR_M0433
DSC0490 ! X =   658.0000,   6088.300,    470.000,    0 !   !END!  GR_M0434
DSC0491 ! X =   658.0500,   6088.300,    469.000,    0 !   !END!  GR_M0435
DSC0492 ! X =   658.1000,   6088.300,    468.800,    0 !   !END!  GR_M0436
DSC0493 ! X =   658.1500,   6088.300,    468.000,    0 !   !END!  GR_M0437
DSC0494 ! X =   658.2000,   6088.300,    468.000,    0 !   !END!  GR_M0438
DSC0495 ! X =   658.2500,   6088.300,    467.000,    0 !   !END!  GR_M0439
DSC0496 ! X =   658.3000,   6088.300,    467.000,    0 !   !END!  GR_M0440
DSC0497 ! X =   657.7000,   6085.900,    518.798,    0 !   !END!  GR_M0441
DSC0498 ! X =   657.7500,   6085.900,    522.544,    0 !   !END!  GR_M0442
DSC0499 ! X =   657.8000,   6085.900,    526.527,    0 !   !END!  GR_M0443
DSC0500 ! X =   657.8500,   6085.900,    530.800,    0 !   !END!  GR_M0444
DSC0501 ! X =   657.9000,   6085.900,    532.928,    0 !   !END!  GR_M0445
DSC0502 ! X =   657.9500,   6085.900,    533.815,    0 !   !END!  GR_M0446
DSC0503 ! X =   658.0000,   6085.900,    534.661,    0 !   !END!  GR_M0447
DSC0504 ! X =   658.0500,   6085.900,    535.000,    0 !   !END!  GR_M0448
DSC0505 ! X =   658.1000,   6085.900,    532.883,    0 !   !END!  GR_M0449
DSC0506 ! X =   658.1500,   6085.900,    531.716,    0 !   !END!  GR_M0450
DSC0507 ! X =   658.2000,   6085.900,    528.309,    0 !   !END!  GR_M0451
DSC0508 ! X =   658.2500,   6085.900,    522.605,    0 !   !END!  GR_M0452
DSC0509 ! X =   658.3000,   6085.900,    514.600,    0 !   !END!  GR_M0453
DSC0510 ! X =   658.3500,   6085.900,    507.118,    0 !   !END!  GR_M0454
DSC0511 ! X =   658.4000,   6085.900,    501.825,    0 !   !END!  GR_M0455
DSC0512 ! X =   658.4500,   6085.900,    496.391,    0 !   !END!  GR_M0456
DSC0513 ! X =   658.5000,   6085.900,    492.790,    0 !   !END!  GR_M0457
DSC0514 ! X =   658.5500,   6085.900,    490.296,    0 !   !END!  GR_M0458
DSC0515 ! X =   658.6000,   6085.900,    488.030,    0 !   !END!  GR_M0459
DSC0516 ! X =   658.6500,   6085.900,    487.000,    0 !   !END!  GR_M0460
DSC0517 ! X =   658.7000,   6085.900,    487.000,    0 !   !END!  GR_M0461
DSC0518 ! X =   657.7000,   6085.950,    517.771,    0 !   !END!  GR_M0462
DSC0519 ! X =   657.7500,   6085.950,    522.347,    0 !   !END!  GR_M0463
DSC0520 ! X =   657.8000,   6085.950,    527.427,    0 !   !END!  GR_M0464
DSC0521 ! X =   657.8500,   6085.950,    532.090,    0 !   !END!  GR_M0465
DSC0522 ! X =   657.9000,   6085.950,    533.985,    0 !   !END!  GR_M0466
DSC0523 ! X =   657.9500,   6085.950,    534.494,    0 !   !END!  GR_M0467
DSC0524 ! X =   658.0000,   6085.950,    534.737,    0 !   !END!  GR_M0468
DSC0525 ! X =   658.0500,   6085.950,    533.365,    0 !   !END!  GR_M0469
DSC0526 ! X =   658.1000,   6085.950,    529.128,    0 !   !END!  GR_M0470
DSC0527 ! X =   658.1500,   6085.950,    526.253,    0 !   !END!  GR_M0471
DSC0528 ! X =   658.2000,   6085.950,    523.273,    0 !   !END!  GR_M0472
DSC0529 ! X =   658.2500,   6085.950,    515.799,    0 !   !END!  GR_M0473
DSC0530 ! X =   658.3000,   6085.950,    505.576,    0 !   !END!  GR_M0474
DSC0531 ! X =   658.3500,   6085.950,    499.827,    0 !   !END!  GR_M0475
DSC0532 ! X =   658.4000,   6085.950,    494.386,    0 !   !END!  GR_M0476
DSC0533 ! X =   658.4500,   6085.950,    489.906,    0 !   !END!  GR_M0477
DSC0534 ! X =   658.5000,   6085.950,    488.338,    0 !   !END!  GR_M0478
DSC0535 ! X =   658.5500,   6085.950,    487.063,    0 !   !END!  GR_M0479
DSC0536 ! X =   658.6000,   6085.950,    487.000,    0 !   !END!  GR_M0480
DSC0537 ! X =   658.6500,   6085.950,    487.000,    0 !   !END!  GR_M0481
DSC0538 ! X =   658.7000,   6085.950,    487.000,    0 !   !END!  GR_M0482
DSC0539 ! X =   657.7000,   6086.000,    517.069,    0 !   !END!  GR_M0483
DSC0540 ! X =   657.7500,   6086.000,    522.853,    0 !   !END!  GR_M0484
DSC0541 ! X =   657.8000,   6086.000,    529.162,    0 !   !END!  GR_M0485
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DSC0542 ! X =   657.8500,   6086.000,    533.000,    0 !   !END!  GR_M0486
DSC0543 ! X =   657.9000,   6086.000,    534.000,    0 !   !END!  GR_M0487
DSC0544 ! X =   657.9500,   6086.000,    534.061,    0 !   !END!  GR_M0488
DSC0545 ! X =   658.0000,   6086.000,    534.000,    0 !   !END!  GR_M0489
DSC0546 ! X =   658.0500,   6086.000,    530.181,    0 !   !END!  GR_M0490
DSC0547 ! X =   658.1000,   6086.000,    523.898,    0 !   !END!  GR_M0491
DSC0548 ! X =   658.1500,   6086.000,    520.829,    0 !   !END!  GR_M0492
DSC0549 ! X =   658.2000,   6086.000,    517.169,    0 !   !END!  GR_M0493
DSC0550 ! X =   658.2500,   6086.000,    507.887,    0 !   !END!  GR_M0494
DSC0551 ! X =   658.3000,   6086.000,    497.907,    0 !   !END!  GR_M0495
DSC0552 ! X =   658.3500,   6086.000,    492.328,    0 !   !END!  GR_M0496
DSC0553 ! X =   658.4000,   6086.000,    487.000,    0 !   !END!  GR_M0497
DSC0554 ! X =   658.4500,   6086.000,    487.000,    0 !   !END!  GR_M0498
DSC0555 ! X =   658.5000,   6086.000,    487.000,    0 !   !END!  GR_M0499
DSC0556 ! X =   658.5500,   6086.000,    487.000,    0 !   !END!  GR_M0500
DSC0557 ! X =   658.6000,   6086.000,    487.000,    0 !   !END!  GR_M0501
DSC0558 ! X =   658.6500,   6086.000,    487.000,    0 !   !END!  GR_M0502
DSC0559 ! X =   658.7000,   6086.000,    487.000,    0 !   !END!  GR_M0503
DSC0560 ! X =   657.7000,   6086.050,    519.146,    0 !   !END!  GR_M0504
DSC0561 ! X =   657.7500,   6086.050,    525.272,    0 !   !END!  GR_M0505
DSC0562 ! X =   657.8000,   6086.050,    530.897,    0 !   !END!  GR_M0506
DSC0563 ! X =   657.8500,   6086.050,    533.561,    0 !   !END!  GR_M0507
DSC0564 ! X =   657.9000,   6086.050,    534.000,    0 !   !END!  GR_M0508
DSC0565 ! X =   657.9500,   6086.050,    533.100,    0 !   !END!  GR_M0509
DSC0566 ! X =   658.0000,   6086.050,    531.336,    0 !   !END!  GR_M0510
DSC0567 ! X =   658.0500,   6086.050,    525.393,    0 !   !END!  GR_M0511
DSC0568 ! X =   658.1000,   6086.050,    518.380,    0 !   !END!  GR_M0512
DSC0569 ! X =   658.1500,   6086.050,    516.416,    0 !   !END!  GR_M0513
DSC0570 ! X =   658.2000,   6086.050,    511.398,    0 !   !END!  GR_M0514
DSC0571 ! X =   658.2500,   6086.050,    500.866,    0 !   !END!  GR_M0515
DSC0572 ! X =   658.3000,   6086.050,    491.667,    0 !   !END!  GR_M0516
DSC0573 ! X =   658.3500,   6086.050,    487.000,    0 !   !END!  GR_M0517
DSC0574 ! X =   658.4000,   6086.050,    487.000,    0 !   !END!  GR_M0518
DSC0575 ! X =   658.4500,   6086.050,    487.000,    0 !   !END!  GR_M0519
DSC0576 ! X =   658.5000,   6086.050,    487.000,    0 !   !END!  GR_M0520
DSC0577 ! X =   658.5500,   6086.050,    487.000,    0 !   !END!  GR_M0521
DSC0578 ! X =   658.6000,   6086.050,    487.000,    0 !   !END!  GR_M0522
DSC0579 ! X =   658.6500,   6086.050,    487.000,    0 !   !END!  GR_M0523
DSC0580 ! X =   658.7000,   6086.050,    487.000,    0 !   !END!  GR_M0524
DSC0581 ! X =   657.7000,   6086.100,    523.163,    0 !   !END!  GR_M0525
DSC0582 ! X =   657.7500,   6086.100,    528.619,    0 !   !END!  GR_M0526
DSC0583 ! X =   657.8000,   6086.100,    532.799,    0 !   !END!  GR_M0527
DSC0584 ! X =   657.8500,   6086.100,    534.000,    0 !   !END!  GR_M0528
DSC0585 ! X =   657.9000,   6086.100,    533.482,    0 !   !END!  GR_M0529
DSC0586 ! X =   657.9500,   6086.100,    530.726,    0 !   !END!  GR_M0530
DSC0587 ! X =   658.0000,   6086.100,    526.891,    0 !   !END!  GR_M0531
DSC0588 ! X =   658.0500,   6086.100,    520.794,    0 !   !END!  GR_M0532
DSC0589 ! X =   658.1000,   6086.100,    514.734,    0 !   !END!  GR_M0533
DSC0590 ! X =   658.1500,   6086.100,    512.125,    0 !   !END!  GR_M0534
DSC0591 ! X =   658.2000,   6086.100,    506.114,    0 !   !END!  GR_M0535
DSC0592 ! X =   658.2500,   6086.100,    495.256,    0 !   !END!  GR_M0536
DSC0593 ! X =   658.3000,   6086.100,    487.000,    0 !   !END!  GR_M0537
DSC0594 ! X =   658.3500,   6086.100,    487.000,    0 !   !END!  GR_M0538
DSC0595 ! X =   658.4000,   6086.100,    487.000,    0 !   !END!  GR_M0539
DSC0596 ! X =   658.4500,   6086.100,    487.000,    0 !   !END!  GR_M0540
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DSC0597 ! X =   658.5000,   6086.100,    487.000,    0 !   !END!  GR_M0541
DSC0598 ! X =   658.5500,   6086.100,    487.000,    0 !   !END!  GR_M0542
DSC0599 ! X =   658.6000,   6086.100,    487.000,    0 !   !END!  GR_M0543
DSC0600 ! X =   658.6500,   6086.100,    487.000,    0 !   !END!  GR_M0544
DSC0601 ! X =   658.7000,   6086.100,    487.000,    0 !   !END!  GR_M0545
DSC0602 ! X =   657.7000,   6086.150,    527.493,    0 !   !END!  GR_M0546
DSC0603 ! X =   657.7500,   6086.150,    532.473,    0 !   !END!  GR_M0547
DSC0604 ! X =   657.8000,   6086.150,    534.000,    0 !   !END!  GR_M0548
DSC0605 ! X =   657.8500,   6086.150,    534.702,    0 !   !END!  GR_M0549
DSC0606 ! X =   657.9000,   6086.150,    532.586,    0 !   !END!  GR_M0550
DSC0607 ! X =   657.9500,   6086.150,    527.379,    0 !   !END!  GR_M0551
DSC0608 ! X =   658.0000,   6086.150,    522.451,    0 !   !END!  GR_M0552
DSC0609 ! X =   658.0500,   6086.150,    516.386,    0 !   !END!  GR_M0553
DSC0610 ! X =   658.1000,   6086.150,    512.450,    0 !   !END!  GR_M0554
DSC0611 ! X =   658.1500,   6086.150,    508.787,    0 !   !END!  GR_M0555
DSC0612 ! X =   658.2000,   6086.150,    502.253,    0 !   !END!  GR_M0556
DSC0613 ! X =   658.2500,   6086.150,    490.336,    0 !   !END!  GR_M0557
DSC0614 ! X =   658.3000,   6086.150,    487.000,    0 !   !END!  GR_M0558
DSC0615 ! X =   658.3500,   6086.150,    487.000,    0 !   !END!  GR_M0559
DSC0616 ! X =   658.4000,   6086.150,    487.000,    0 !   !END!  GR_M0560
DSC0617 ! X =   658.4500,   6086.150,    487.000,    0 !   !END!  GR_M0561
DSC0618 ! X =   658.5000,   6086.150,    487.000,    0 !   !END!  GR_M0562
DSC0619 ! X =   658.5500,   6086.150,    487.000,    0 !   !END!  GR_M0563
DSC0620 ! X =   658.6000,   6086.150,    487.000,    0 !   !END!  GR_M0564
DSC0621 ! X =   658.6500,   6086.150,    487.000,    0 !   !END!  GR_M0565
DSC0622 ! X =   658.7000,   6086.150,    487.000,    0 !   !END!  GR_M0566
DSC0623 ! X =   657.7000,   6086.200,    531.087,    0 !   !END!  GR_M0567
DSC0624 ! X =   657.7500,   6086.200,    534.862,    0 !   !END!  GR_M0568
DSC0625 ! X =   657.8000,   6086.200,    535.000,    0 !   !END!  GR_M0569
DSC0626 ! X =   657.8500,   6086.200,    534.190,    0 !   !END!  GR_M0570
DSC0627 ! X =   657.9000,   6086.200,    531.615,    0 !   !END!  GR_M0571
DSC0628 ! X =   657.9500,   6086.200,    524.864,    0 !   !END!  GR_M0572
DSC0629 ! X =   658.0000,   6086.200,    518.490,    0 !   !END!  GR_M0573
DSC0630 ! X =   658.0500,   6086.200,    513.827,    0 !   !END!  GR_M0574
DSC0631 ! X =   658.1000,   6086.200,    510.165,    0 !   !END!  GR_M0575
DSC0632 ! X =   658.1500,   6086.200,    506.262,    0 !   !END!  GR_M0576
DSC0633 ! X =   658.2000,   6086.200,    498.882,    0 !   !END!  GR_M0577
DSC0634 ! X =   658.2500,   6086.200,    487.000,    0 !   !END!  GR_M0578
DSC0635 ! X =   658.3000,   6086.200,    487.000,    0 !   !END!  GR_M0579
DSC0636 ! X =   658.3500,   6086.200,    487.000,    0 !   !END!  GR_M0580
DSC0637 ! X =   658.4000,   6086.200,    487.000,    0 !   !END!  GR_M0581
DSC0638 ! X =   658.4500,   6086.200,    487.000,    0 !   !END!  GR_M0582
DSC0639 ! X =   658.5000,   6086.200,    487.000,    0 !   !END!  GR_M0583
DSC0640 ! X =   658.5500,   6086.200,    487.000,    0 !   !END!  GR_M0584
DSC0641 ! X =   658.6000,   6086.200,    487.000,    0 !   !END!  GR_M0585
DSC0642 ! X =   658.6500,   6086.200,    487.000,    0 !   !END!  GR_M0586
DSC0643 ! X =   658.7000,   6086.200,    487.000,    0 !   !END!  GR_M0587
DSC0644 ! X =   657.7000,   6086.250,    533.748,    0 !   !END!  GR_M0588
DSC0645 ! X =   657.7500,   6086.250,    536.008,    0 !   !END!  GR_M0589
DSC0646 ! X =   657.8000,   6086.250,    536.000,    0 !   !END!  GR_M0590
DSC0647 ! X =   657.8500,   6086.250,    534.061,    0 !   !END!  GR_M0591
DSC0648 ! X =   657.9000,   6086.250,    530.388,    0 !   !END!  GR_M0592
DSC0649 ! X =   657.9500,   6086.250,    523.165,    0 !   !END!  GR_M0593
DSC0650 ! X =   658.0000,   6086.250,    516.205,    0 !   !END!  GR_M0594
DSC0651 ! X =   658.0500,   6086.250,    513.104,    0 !   !END!  GR_M0595
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DSC0652 ! X =   658.1000,   6086.250,    509.676,    0 !   !END!  GR_M0596
DSC0653 ! X =   658.1500,   6086.250,    498.500,    0 !   !END!  GR_M0597
DSC0654 ! X =   658.2000,   6086.250,    486.500,    0 !   !END!  GR_M0598
DSC0655 ! X =   658.2500,   6086.250,    486.500,    0 !   !END!  GR_M0599
DSC0656 ! X =   658.3000,   6086.250,    486.500,    0 !   !END!  GR_M0600
DSC0657 ! X =   658.3500,   6086.250,    486.500,    0 !   !END!  GR_M0601
DSC0658 ! X =   658.4000,   6086.250,    487.000,    0 !   !END!  GR_M0602
DSC0659 ! X =   658.4500,   6086.250,    487.000,    0 !   !END!  GR_M0603
DSC0660 ! X =   658.5000,   6086.250,    487.000,    0 !   !END!  GR_M0604
DSC0661 ! X =   658.5500,   6086.250,    487.000,    0 !   !END!  GR_M0605
DSC0662 ! X =   658.6000,   6086.250,    487.000,    0 !   !END!  GR_M0606
DSC0663 ! X =   658.6500,   6086.250,    487.000,    0 !   !END!  GR_M0607
DSC0664 ! X =   658.7000,   6086.250,    490.151,    0 !   !END!  GR_M0608
DSC0665 ! X =   657.7000,   6086.300,    535.106,    0 !   !END!  GR_M0609
DSC0666 ! X =   657.7500,   6086.300,    537.173,    0 !   !END!  GR_M0610
DSC0667 ! X =   657.8000,   6086.300,    536.698,    0 !   !END!  GR_M0611
DSC0668 ! X =   657.8500,   6086.300,    533.926,    0 !   !END!  GR_M0612
DSC0669 ! X =   657.9000,   6086.300,    529.197,    0 !   !END!  GR_M0613
DSC0670 ! X =   657.9500,   6086.300,    522.824,    0 !   !END!  GR_M0614
DSC0671 ! X =   658.0000,   6086.300,    516.714,    0 !   !END!  GR_M0615
DSC0672 ! X =   658.0500,   6086.300,    513.612,    0 !   !END!  GR_M0616
DSC0673 ! X =   658.1000,   6086.300,    486.500,    0 !   !END!  GR_M0617
DSC0674 ! X =   658.1500,   6086.300,    486.500,    0 !   !END!  GR_M0618
DSC0675 ! X =   658.2000,   6086.300,    486.500,    0 !   !END!  GR_M0619
DSC0676 ! X =   658.2500,   6086.300,    486.500,    0 !   !END!  GR_M0620
DSC0677 ! X =   658.3000,   6086.300,    486.500,    0 !   !END!  GR_M0621
DSC0678 ! X =   658.3500,   6086.300,    486.500,    0 !   !END!  GR_M0622
DSC0679 ! X =   658.4000,   6086.300,    486.500,    0 !   !END!  GR_M0623
DSC0680 ! X =   658.4500,   6086.300,    486.500,    0 !   !END!  GR_M0624
DSC0681 ! X =   658.5000,   6086.300,    487.000,    0 !   !END!  GR_M0625
DSC0682 ! X =   658.5500,   6086.300,    487.000,    0 !   !END!  GR_M0626
DSC0683 ! X =   658.6000,   6086.300,    487.000,    0 !   !END!  GR_M0627
DSC0684 ! X =   658.6500,   6086.300,    494.076,    0 !   !END!  GR_M0628
DSC0685 ! X =   658.7000,   6086.300,    499.547,    0 !   !END!  GR_M0629
DSC0686 ! X =   657.7000,   6086.350,    536.390,    0 !   !END!  GR_M0630
DSC0687 ! X =   657.7500,   6086.350,    538.815,    0 !   !END!  GR_M0631
DSC0688 ! X =   657.8000,   6086.350,    537.653,    0 !   !END!  GR_M0632
DSC0689 ! X =   657.8500,   6086.350,    533.971,    0 !   !END!  GR_M0633
DSC0690 ! X =   657.9000,   6086.350,    529.212,    0 !   !END!  GR_M0634
DSC0691 ! X =   657.9500,   6086.350,    523.662,    0 !   !END!  GR_M0635
DSC0692 ! X =   658.0000,   6086.350,    518.528,    0 !   !END!  GR_M0636
DSC0693 ! X =   658.0500,   6086.350,    486.500,    0 !   !END!  GR_M0637
DSC0694 ! X =   658.1000,   6086.350,    486.500,    0 !   !END!  GR_M0638
DSC0695 ! X =   658.1500,   6086.350,    486.500,    0 !   !END!  GR_M0639
DSC0696 ! X =   658.2000,   6086.350,    486.500,    0 !   !END!  GR_M0640
DSC0697 ! X =   658.2500,   6086.350,    486.500,    0 !   !END!  GR_M0641
DSC0698 ! X =   658.3000,   6086.350,    486.500,    0 !   !END!  GR_M0642
DSC0699 ! X =   658.3500,   6086.350,    486.500,    0 !   !END!  GR_M0643
DSC0700 ! X =   658.4000,   6086.350,    486.500,    0 !   !END!  GR_M0644
DSC0701 ! X =   658.4500,   6086.350,    486.500,    0 !   !END!  GR_M0645
DSC0702 ! X =   658.5000,   6086.350,    486.500,    0 !   !END!  GR_M0646
DSC0703 ! X =   658.5500,   6086.350,    498.500,    0 !   !END!  GR_M0647
DSC0704 ! X =   658.6000,   6086.350,    498.709,    0 !   !END!  GR_M0648
DSC0705 ! X =   658.6500,   6086.350,    502.906,    0 !   !END!  GR_M0649
DSC0706 ! X =   658.7000,   6086.350,    506.414,    0 !   !END!  GR_M0650
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DSC0707 ! X =   657.7000,   6086.400,    538.680,    0 !   !END!  GR_M0651
DSC0708 ! X =   657.7500,   6086.400,    540.483,    0 !   !END!  GR_M0652
DSC0709 ! X =   657.8000,   6086.400,    538.813,    0 !   !END!  GR_M0653
DSC0710 ! X =   657.8500,   6086.400,    534.997,    0 !   !END!  GR_M0654
DSC0711 ! X =   657.9000,   6086.400,    530.874,    0 !   !END!  GR_M0655
DSC0712 ! X =   657.9500,   6086.400,    525.370,    0 !   !END!  GR_M0656
DSC0713 ! X =   658.0000,   6086.400,    528.120,    0 !   !END!  GR_M0657
DSC0714 ! X =   658.0500,   6086.400,    486.500,    0 !   !END!  GR_M0658
DSC0715 ! X =   658.1000,   6086.400,    486.500,    0 !   !END!  GR_M0659
DSC0716 ! X =   658.1500,   6086.400,    486.500,    0 !   !END!  GR_M0660
DSC0717 ! X =   658.2500,   6086.400,    486.500,    0 !   !END!  GR_M0661
DSC0718 ! X =   658.3000,   6086.400,    486.500,    0 !   !END!  GR_M0662
DSC0719 ! X =   658.3500,   6086.400,    486.500,    0 !   !END!  GR_M0663
DSC0720 ! X =   658.4000,   6086.400,    486.500,    0 !   !END!  GR_M0664
DSC0721 ! X =   658.4500,   6086.400,    486.500,    0 !   !END!  GR_M0665
DSC0722 ! X =   658.5000,   6086.400,    486.500,    0 !   !END!  GR_M0666
DSC0723 ! X =   658.5500,   6086.400,    486.500,    0 !   !END!  GR_M0667
DSC0724 ! X =   658.6000,   6086.400,    506.916,    0 !   !END!  GR_M0668
DSC0725 ! X =   658.6500,   6086.400,    509.230,    0 !   !END!  GR_M0669
DSC0726 ! X =   658.7000,   6086.400,    510.976,    0 !   !END!  GR_M0670
DSC0727 ! X =   657.7000,   6086.450,    540.965,    0 !   !END!  GR_M0671
DSC0728 ! X =   657.7500,   6086.450,    542.638,    0 !   !END!  GR_M0672
DSC0729 ! X =   657.8000,   6086.450,    540.834,    0 !   !END!  GR_M0673
DSC0730 ! X =   657.8500,   6086.450,    537.018,    0 !   !END!  GR_M0674
DSC0731 ! X =   657.9000,   6086.450,    532.202,    0 !   !END!  GR_M0675
DSC0732 ! X =   657.9500,   6086.450,    527.708,    0 !   !END!  GR_M0676
DSC0733 ! X =   658.0000,   6086.450,    498.500,    0 !   !END!  GR_M0677
DSC0734 ! X =   658.0500,   6086.450,    492.500,    0 !   !END!  GR_M0678
DSC0735 ! X =   658.1000,   6086.450,    486.500,    0 !   !END!  GR_M0679
DSC0736 ! X =   658.1500,   6086.450,    486.500,    0 !   !END!  GR_M0680
DSC0737 ! X =   658.2000,   6086.450,    486.500,    0 !   !END!  GR_M0681
DSC0738 ! X =   658.2500,   6086.450,    486.500,    0 !   !END!  GR_M0682
DSC0739 ! X =   658.3000,   6086.450,    486.500,    0 !   !END!  GR_M0683
DSC0740 ! X =   658.3500,   6086.450,    486.500,    0 !   !END!  GR_M0684
DSC0741 ! X =   658.4000,   6086.450,    486.500,    0 !   !END!  GR_M0685
DSC0742 ! X =   658.4500,   6086.450,    486.500,    0 !   !END!  GR_M0686
DSC0743 ! X =   658.5000,   6086.450,    486.500,    0 !   !END!  GR_M0687
DSC0744 ! X =   658.5500,   6086.450,    486.500,    0 !   !END!  GR_M0688
DSC0745 ! X =   658.6000,   6086.450,    513.042,    0 !   !END!  GR_M0689
DSC0746 ! X =   658.6500,   6086.450,    513.619,    0 !   !END!  GR_M0690
DSC0747 ! X =   658.7000,   6086.450,    514.416,    0 !   !END!  GR_M0691
DSC0748 ! X =   657.7000,   6086.500,    543.245,    0 !   !END!  GR_M0692
DSC0749 ! X =   657.7500,   6086.500,    545.587,    0 !   !END!  GR_M0693
DSC0750 ! X =   657.8000,   6086.500,    543.819,    0 !   !END!  GR_M0694
DSC0751 ! X =   657.8500,   6086.500,    539.043,    0 !   !END!  GR_M0695
DSC0752 ! X =   657.9000,   6086.500,    534.038,    0 !   !END!  GR_M0696
DSC0753 ! X =   657.9500,   6086.500,    530.491,    0 !   !END!  GR_M0697
DSC0754 ! X =   658.0000,   6086.500,    492.500,    0 !   !END!  GR_M0698
DSC0755 ! X =   658.0500,   6086.500,    492.500,    0 !   !END!  GR_M0699
DSC0756 ! X =   658.1000,   6086.500,    486.500,    0 !   !END!  GR_M0700
DSC0757 ! X =   658.1500,   6086.500,    486.500,    0 !   !END!  GR_M0701
DSC0758 ! X =   658.2000,   6086.500,    486.500,    0 !   !END!  GR_M0702
DSC0759 ! X =   658.2500,   6086.500,    486.500,    0 !   !END!  GR_M0703
DSC0760 ! X =   658.3000,   6086.500,    486.500,    0 !   !END!  GR_M0704
DSC0761 ! X =   658.3500,   6086.500,    486.500,    0 !   !END!  GR_M0705
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DSC0762 ! X =   658.4000,   6086.500,    486.500,    0 !   !END!  GR_M0706
DSC0763 ! X =   658.4500,   6086.500,    486.500,    0 !   !END!  GR_M0707
DSC0764 ! X =   658.5000,   6086.500,    486.500,    0 !   !END!  GR_M0708
DSC0765 ! X =   658.5500,   6086.500,    486.500,    0 !   !END!  GR_M0709
DSC0766 ! X =   658.6000,   6086.500,    519.507,    0 !   !END!  GR_M0710
DSC0767 ! X =   658.6500,   6086.500,    518.851,    0 !   !END!  GR_M0711
DSC0768 ! X =   658.7000,   6086.500,    518.698,    0 !   !END!  GR_M0712
DSC0769 ! X =   657.7000,   6086.550,    546.534,    0 !   !END!  GR_M0713
DSC0770 ! X =   657.7500,   6086.550,    547.949,    0 !   !END!  GR_M0714
DSC0771 ! X =   657.8000,   6086.550,    545.880,    0 !   !END!  GR_M0715
DSC0772 ! X =   657.8500,   6086.550,    541.914,    0 !   !END!  GR_M0716
DSC0773 ! X =   657.9000,   6086.550,    536.116,    0 !   !END!  GR_M0717
DSC0774 ! X =   657.9500,   6086.550,    528.500,    0 !   !END!  GR_M0718
DSC0775 ! X =   658.0000,   6086.550,    492.500,    0 !   !END!  GR_M0719
DSC0776 ! X =   658.0500,   6086.550,    492.500,    0 !   !END!  GR_M0720
DSC0777 ! X =   658.1000,   6086.550,    492.500,    0 !   !END!  GR_M0721
DSC0778 ! X =   658.1500,   6086.550,    486.500,    0 !   !END!  GR_M0722
DSC0779 ! X =   658.2000,   6086.550,    498.500,    0 !   !END!  GR_M0723
DSC0780 ! X =   658.2500,   6086.550,    498.832,    0 !   !END!  GR_M0724
DSC0781 ! X =   658.3000,   6086.550,    494.029,    0 !   !END!  GR_M0725
DSC0782 ! X =   658.3500,   6086.550,    486.500,    0 !   !END!  GR_M0726
DSC0783 ! X =   658.4000,   6086.550,    486.500,    0 !   !END!  GR_M0727
DSC0784 ! X =   658.4500,   6086.550,    486.500,    0 !   !END!  GR_M0728
DSC0785 ! X =   658.5000,   6086.550,    486.500,    0 !   !END!  GR_M0729
DSC0786 ! X =   658.5500,   6086.550,    510.500,    0 !   !END!  GR_M0730
DSC0787 ! X =   658.6000,   6086.550,    525.973,    0 !   !END!  GR_M0731
DSC0788 ! X =   658.6500,   6086.550,    524.742,    0 !   !END!  GR_M0732
DSC0789 ! X =   658.7000,   6086.550,    523.008,    0 !   !END!  GR_M0733
DSC0790 ! X =   657.7000,   6086.600,    548.819,    0 !   !END!  GR_M0734
DSC0791 ! X =   657.7500,   6086.600,    550.198,    0 !   !END!  GR_M0735
DSC0792 ! X =   657.8000,   6086.600,    548.906,    0 !   !END!  GR_M0736
DSC0793 ! X =   657.8500,   6086.600,    545.040,    0 !   !END!  GR_M0737
DSC0794 ! X =   657.9000,   6086.600,    540.671,    0 !   !END!  GR_M0738
DSC0795 ! X =   657.9500,   6086.600,    538.594,    0 !   !END!  GR_M0739
DSC0796 ! X =   658.0000,   6086.600,    523.021,    0 !   !END!  GR_M0740
DSC0797 ! X =   658.0500,   6086.600,    518.575,    0 !   !END!  GR_M0741
DSC0798 ! X =   658.1000,   6086.600,    522.500,    0 !   !END!  GR_M0742
DSC0799 ! X =   658.1500,   6086.600,    528.455,    0 !   !END!  GR_M0743
DSC0800 ! X =   658.2000,   6086.600,    534.500,    0 !   !END!  GR_M0744
DSC0801 ! X =   658.2500,   6086.600,    535.758,    0 !   !END!  GR_M0745
DSC0802 ! X =   658.3000,   6086.600,    532.024,    0 !   !END!  GR_M0746
DSC0803 ! X =   658.3500,   6086.600,    510.500,    0 !   !END!  GR_M0747
DSC0804 ! X =   658.4000,   6086.600,    498.500,    0 !   !END!  GR_M0748
DSC0805 ! X =   658.4500,   6086.600,    498.019,    0 !   !END!  GR_M0749
DSC0806 ! X =   658.5000,   6086.600,    515.351,    0 !   !END!  GR_M0750
DSC0807 ! X =   658.5500,   6086.600,    532.654,    0 !   !END!  GR_M0751
DSC0808 ! X =   658.6000,   6086.600,    532.424,    0 !   !END!  GR_M0752
DSC0809 ! X =   658.6500,   6086.600,    530.290,    0 !   !END!  GR_M0753
DSC0810 ! X =   658.7000,   6086.600,    527.891,    0 !   !END!  GR_M0754
DSC0811 ! X =   657.7000,   6086.650,    551.104,    0 !   !END!  GR_M0755
DSC0812 ! X =   657.7500,   6086.650,    553.254,    0 !   !END!  GR_M0756
DSC0813 ! X =   657.8000,   6086.650,    552.114,    0 !   !END!  GR_M0757
DSC0814 ! X =   657.8500,   6086.650,    548.335,    0 !   !END!  GR_M0758
DSC0815 ! X =   657.9000,   6086.650,    545.349,    0 !   !END!  GR_M0759
DSC0816 ! X =   657.9500,   6086.650,    542.904,    0 !   !END!  GR_M0760
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DSC0817 ! X =   658.0000,   6086.650,    542.958,    0 !   !END!  GR_M0761
DSC0818 ! X =   658.0500,   6086.650,    542.649,    0 !   !END!  GR_M0762
DSC0819 ! X =   658.1000,   6086.650,    542.179,    0 !   !END!  GR_M0763
DSC0820 ! X =   658.1500,   6086.650,    541.949,    0 !   !END!  GR_M0764
DSC0821 ! X =   658.2000,   6086.650,    541.718,    0 !   !END!  GR_M0765
DSC0822 ! X =   658.2500,   6086.650,    540.992,    0 !   !END!  GR_M0766
DSC0823 ! X =   658.3000,   6086.650,    538.696,    0 !   !END!  GR_M0767
DSC0824 ! X =   658.3500,   6086.650,    537.776,    0 !   !END!  GR_M0768
DSC0825 ! X =   658.4000,   6086.650,    539.208,    0 !   !END!  GR_M0769
DSC0826 ! X =   658.4500,   6086.650,    540.607,    0 !   !END!  GR_M0770
DSC0827 ! X =   658.5000,   6086.650,    538.629,    0 !   !END!  GR_M0771
DSC0828 ! X =   658.5500,   6086.650,    537.066,    0 !   !END!  GR_M0772
DSC0829 ! X =   658.6000,   6086.650,    535.880,    0 !   !END!  GR_M0773
DSC0830 ! X =   658.6500,   6086.650,    533.891,    0 !   !END!  GR_M0774
DSC0831 ! X =   658.7000,   6086.650,    531.171,    0 !   !END!  GR_M0775
DSC0832 ! X =   657.7000,   6086.700,    553.394,    0 !   !END!  GR_M0776
DSC0833 ! X =   657.7500,   6086.700,    556.201,    0 !   !END!  GR_M0777
DSC0834 ! X =   657.8000,   6086.700,    556.082,    0 !   !END!  GR_M0778
DSC0835 ! X =   657.8500,   6086.700,    553.782,    0 !   !END!  GR_M0779
DSC0836 ! X =   657.9000,   6086.700,    551.577,    0 !   !END!  GR_M0780
DSC0837 ! X =   657.9500,   6086.700,    549.322,    0 !   !END!  GR_M0781
DSC0838 ! X =   658.0000,   6086.700,    549.091,    0 !   !END!  GR_M0782
DSC0839 ! X =   658.0500,   6086.700,    548.875,    0 !   !END!  GR_M0783
DSC0840 ! X =   658.1000,   6086.700,    548.645,    0 !   !END!  GR_M0784
DSC0841 ! X =   658.1500,   6086.700,    548.414,    0 !   !END!  GR_M0785
DSC0842 ! X =   658.2000,   6086.700,    547.184,    0 !   !END!  GR_M0786
DSC0843 ! X =   658.2500,   6086.700,    545.366,    0 !   !END!  GR_M0787
DSC0844 ! X =   658.3000,   6086.700,    546.392,    0 !   !END!  GR_M0788
DSC0845 ! X =   658.3500,   6086.700,    546.010,    0 !   !END!  GR_M0789
DSC0846 ! X =   658.4000,   6086.700,    547.107,    0 !   !END!  GR_M0790
DSC0847 ! X =   658.4500,   6086.700,    546.702,    0 !   !END!  GR_M0791
DSC0848 ! X =   658.5000,   6086.700,    543.610,    0 !   !END!  GR_M0792
DSC0849 ! X =   658.5500,   6086.700,    540.298,    0 !   !END!  GR_M0793
DSC0850 ! X =   658.6000,   6086.700,    537.906,    0 !   !END!  GR_M0794
DSC0851 ! X =   658.6500,   6086.700,    536.002,    0 !   !END!  GR_M0795
DSC0852 ! X =   658.7000,   6086.700,    533.970,    0 !   !END!  GR_M0796
DSC0853 ! X =   657.7000,   6086.750,    556.320,    0 !   !END!  GR_M0797
DSC0854 ! X =   657.7500,   6086.750,    559.341,    0 !   !END!  GR_M0798
DSC0855 ! X =   657.8000,   6086.750,    559.976,    0 !   !END!  GR_M0799
DSC0856 ! X =   657.8500,   6086.750,    559.683,    0 !   !END!  GR_M0800
DSC0857 ! X =   657.9000,   6086.750,    558.361,    0 !   !END!  GR_M0801
DSC0858 ! X =   657.9500,   6086.750,    557.050,    0 !   !END!  GR_M0802
DSC0859 ! X =   658.0000,   6086.750,    556.742,    0 !   !END!  GR_M0803
DSC0860 ! X =   658.0500,   6086.750,    557.646,    0 !   !END!  GR_M0804
DSC0861 ! X =   658.1000,   6086.750,    558.147,    0 !   !END!  GR_M0805
DSC0862 ! X =   658.1500,   6086.750,    557.138,    0 !   !END!  GR_M0806
DSC0863 ! X =   658.2000,   6086.750,    552.338,    0 !   !END!  GR_M0807
DSC0864 ! X =   658.2500,   6086.750,    549.645,    0 !   !END!  GR_M0808
DSC0865 ! X =   658.3000,   6086.750,    550.730,    0 !   !END!  GR_M0809
DSC0866 ! X =   658.3500,   6086.750,    549.884,    0 !   !END!  GR_M0810
DSC0867 ! X =   658.4000,   6086.750,    550.227,    0 !   !END!  GR_M0811
DSC0868 ! X =   658.4500,   6086.750,    549.439,    0 !   !END!  GR_M0812
DSC0869 ! X =   658.5000,   6086.750,    546.558,    0 !   !END!  GR_M0813
DSC0870 ! X =   658.5500,   6086.750,    542.137,    0 !   !END!  GR_M0814
DSC0871 ! X =   658.6000,   6086.750,    539.179,    0 !   !END!  GR_M0815
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DSC0872 ! X =   658.6500,   6086.750,    536.931,    0 !   !END!  GR_M0816
DSC0873 ! X =   658.7000,   6086.750,    535.021,    0 !   !END!  GR_M0817
DSC0874 ! X =   657.7000,   6086.800,    558.308,    0 !   !END!  GR_M0818
DSC0875 ! X =   657.7500,   6086.800,    562.375,    0 !   !END!  GR_M0819
DSC0876 ! X =   657.8000,   6086.800,    563.418,    0 !   !END!  GR_M0820
DSC0877 ! X =   657.8500,   6086.800,    564.142,    0 !   !END!  GR_M0821
DSC0878 ! X =   657.9000,   6086.800,    563.989,    0 !   !END!  GR_M0822
DSC0879 ! X =   657.9500,   6086.800,    563.835,    0 !   !END!  GR_M0823
DSC0880 ! X =   658.0000,   6086.800,    563.682,    0 !   !END!  GR_M0824
DSC0881 ! X =   658.0500,   6086.800,    563.874,    0 !   !END!  GR_M0825
DSC0882 ! X =   658.1000,   6086.800,    565.384,    0 !   !END!  GR_M0826
DSC0883 ! X =   658.1500,   6086.800,    563.311,    0 !   !END!  GR_M0827
DSC0884 ! X =   658.2000,   6086.800,    555.912,    0 !   !END!  GR_M0828
DSC0885 ! X =   658.2500,   6086.800,    551.671,    0 !   !END!  GR_M0829
DSC0886 ! X =   658.3000,   6086.800,    551.000,    0 !   !END!  GR_M0830
DSC0887 ! X =   658.3500,   6086.800,    550.369,    0 !   !END!  GR_M0831
DSC0888 ! X =   658.4000,   6086.800,    550.000,    0 !   !END!  GR_M0832
DSC0889 ! X =   658.4500,   6086.800,    548.829,    0 !   !END!  GR_M0833
DSC0890 ! X =   658.5000,   6086.800,    546.419,    0 !   !END!  GR_M0834
DSC0891 ! X =   658.5500,   6086.800,    543.133,    0 !   !END!  GR_M0835
DSC0892 ! X =   658.6000,   6086.800,    540.224,    0 !   !END!  GR_M0836
DSC0893 ! X =   658.6500,   6086.800,    537.784,    0 !   !END!  GR_M0837
DSC0894 ! X =   658.7000,   6086.800,    536.012,    0 !   !END!  GR_M0838
DSC0895 ! X =   657.7000,   6086.850,    559.587,    0 !   !END!  GR_M0839
DSC0896 ! X =   657.7500,   6086.850,    563.915,    0 !   !END!  GR_M0840
DSC0897 ! X =   657.8000,   6086.850,    565.578,    0 !   !END!  GR_M0841
DSC0898 ! X =   657.8500,   6086.850,    566.722,    0 !   !END!  GR_M0842
DSC0899 ! X =   657.9000,   6086.850,    566.650,    0 !   !END!  GR_M0843
DSC0900 ! X =   657.9500,   6086.850,    566.573,    0 !   !END!  GR_M0844
DSC0901 ! X =   658.0000,   6086.850,    566.496,    0 !   !END!  GR_M0845
DSC0902 ! X =   658.0500,   6086.850,    566.695,    0 !   !END!  GR_M0846
DSC0903 ! X =   658.1000,   6086.850,    567.584,    0 !   !END!  GR_M0847
DSC0904 ! X =   658.1500,   6086.850,    564.518,    0 !   !END!  GR_M0848
DSC0905 ! X =   658.2000,   6086.850,    556.421,    0 !   !END!  GR_M0849
DSC0906 ! X =   658.2500,   6086.850,    551.451,    0 !   !END!  GR_M0850
DSC0907 ! X =   658.3000,   6086.850,    549.960,    0 !   !END!  GR_M0851
DSC0908 ! X =   658.3500,   6086.850,    549.037,    0 !   !END!  GR_M0852
DSC0909 ! X =   658.4000,   6086.850,    549.000,    0 !   !END!  GR_M0853
DSC0910 ! X =   658.4500,   6086.850,    547.679,    0 !   !END!  GR_M0854
DSC0911 ! X =   658.5000,   6086.850,    545.867,    0 !   !END!  GR_M0855
DSC0912 ! X =   658.5500,   6086.850,    543.128,    0 !   !END!  GR_M0856
DSC0913 ! X =   658.6000,   6086.850,    540.389,    0 !   !END!  GR_M0857
DSC0914 ! X =   658.6500,   6086.850,    538.000,    0 !   !END!  GR_M0858
DSC0915 ! X =   658.7000,   6086.850,    536.000,    0 !   !END!  GR_M0859
DSC0916 ! X =   657.7000,   6086.900,    560.369,    0 !   !END!  GR_M0860
DSC0917 ! X =   657.7500,   6086.900,    564.170,    0 !   !END!  GR_M0861
DSC0918 ! X =   657.8000,   6086.900,    566.867,    0 !   !END!  GR_M0862
DSC0919 ! X =   657.8500,   6086.900,    567.877,    0 !   !END!  GR_M0863
DSC0920 ! X =   657.9000,   6086.900,    568.000,    0 !   !END!  GR_M0864
DSC0921 ! X =   657.9500,   6086.900,    568.000,    0 !   !END!  GR_M0865
DSC0922 ! X =   658.0000,   6086.900,    566.433,    0 !   !END!  GR_M0866
DSC0923 ! X =   658.0500,   6086.900,    565.426,    0 !   !END!  GR_M0867
DSC0924 ! X =   658.1000,   6086.900,    564.329,    0 !   !END!  GR_M0868
DSC0925 ! X =   658.1500,   6086.900,    559.585,    0 !   !END!  GR_M0869
DSC0926 ! X =   658.2000,   6086.900,    553.648,    0 !   !END!  GR_M0870
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DSC0927 ! X =   658.2500,   6086.900,    549.728,    0 !   !END!  GR_M0871
DSC0928 ! X =   658.3000,   6086.900,    548.805,    0 !   !END!  GR_M0872
DSC0929 ! X =   658.3500,   6086.900,    548.000,    0 !   !END!  GR_M0873
DSC0930 ! X =   658.4000,   6086.900,    547.958,    0 !   !END!  GR_M0874
DSC0931 ! X =   658.4500,   6086.900,    546.493,    0 !   !END!  GR_M0875
DSC0932 ! X =   658.5000,   6086.900,    544.766,    0 !   !END!  GR_M0876
DSC0933 ! X =   658.5500,   6086.900,    542.998,    0 !   !END!  GR_M0877
DSC0934 ! X =   658.6000,   6086.900,    540.259,    0 !   !END!  GR_M0878
DSC0935 ! X =   658.6500,   6086.900,    538.000,    0 !   !END!  GR_M0879
DSC0936 ! X =   658.7000,   6086.900,    536.000,    0 !   !END!  GR_M0880
DSC0937 ! X =   657.3000,   6085.100,    484.798,    0 !   !END!  GR_M0881
DSC0938 ! X =   657.3500,   6085.100,    486.000,    0 !   !END!  GR_M0882
DSC0939 ! X =   657.4000,   6085.100,    487.277,    0 !   !END!  GR_M0883
DSC0940 ! X =   657.4500,   6085.100,    492.011,    0 !   !END!  GR_M0884
DSC0941 ! X =   657.5000,   6085.100,    496.587,    0 !   !END!  GR_M0885
DSC0942 ! X =   657.5500,   6085.100,    500.250,    0 !   !END!  GR_M0886
DSC0943 ! X =   657.6000,   6085.100,    503.141,    0 !   !END!  GR_M0887
DSC0944 ! X =   657.6500,   6085.100,    511.126,    0 !   !END!  GR_M0888
DSC0945 ! X =   657.7000,   6085.100,    519.939,    0 !   !END!  GR_M0889
DSC0946 ! X =   657.7500,   6085.100,    526.798,    0 !   !END!  GR_M0890
DSC0947 ! X =   657.8000,   6085.100,    531.874,    0 !   !END!  GR_M0891
DSC0948 ! X =   657.8500,   6085.100,    533.941,    0 !   !END!  GR_M0892
DSC0949 ! X =   657.9000,   6085.100,    534.000,    0 !   !END!  GR_M0893
DSC0950 ! X =   657.9500,   6085.100,    533.512,    0 !   !END!  GR_M0894
DSC0951 ! X =   658.0000,   6085.100,    531.922,    0 !   !END!  GR_M0895
DSC0952 ! X =   658.0500,   6085.100,    530.000,    0 !   !END!  GR_M0896
DSC0953 ! X =   658.1000,   6085.100,    529.930,    0 !   !END!  GR_M0897
DSC0954 ! X =   658.1500,   6085.100,    531.198,    0 !   !END!  GR_M0898
DSC0955 ! X =   658.2000,   6085.100,    532.856,    0 !   !END!  GR_M0899
DSC0956 ! X =   658.2500,   6085.100,    534.573,    0 !   !END!  GR_M0900
DSC0957 ! X =   658.3000,   6085.100,    535.622,    0 !   !END!  GR_M0901
DSC0958 ! X =   657.3000,   6085.150,    485.273,    0 !   !END!  GR_M0902
DSC0959 ! X =   657.3500,   6085.150,    486.740,    0 !   !END!  GR_M0903
DSC0960 ! X =   657.4000,   6085.150,    489.406,    0 !   !END!  GR_M0904
DSC0961 ! X =   657.4500,   6085.150,    493.350,    0 !   !END!  GR_M0905
DSC0962 ! X =   657.5000,   6085.150,    497.872,    0 !   !END!  GR_M0906
DSC0963 ! X =   657.5500,   6085.150,    501.534,    0 !   !END!  GR_M0907
DSC0964 ! X =   657.6000,   6085.150,    506.394,    0 !   !END!  GR_M0908
DSC0965 ! X =   657.6500,   6085.150,    514.751,    0 !   !END!  GR_M0909
DSC0966 ! X =   657.7000,   6085.150,    523.354,    0 !   !END!  GR_M0910
DSC0967 ! X =   657.7500,   6085.150,    530.018,    0 !   !END!  GR_M0911
DSC0968 ! X =   657.8000,   6085.150,    533.536,    0 !   !END!  GR_M0912
DSC0969 ! X =   657.8500,   6085.150,    534.000,    0 !   !END!  GR_M0913
DSC0970 ! X =   657.9000,   6085.150,    533.613,    0 !   !END!  GR_M0914
DSC0971 ! X =   657.9500,   6085.150,    532.329,    0 !   !END!  GR_M0915
DSC0972 ! X =   658.0000,   6085.150,    531.000,    0 !   !END!  GR_M0916
DSC0973 ! X =   658.0500,   6085.150,    531.000,    0 !   !END!  GR_M0917
DSC0974 ! X =   658.1000,   6085.150,    531.816,    0 !   !END!  GR_M0918
DSC0975 ! X =   658.1500,   6085.150,    533.008,    0 !   !END!  GR_M0919
DSC0976 ! X =   658.2000,   6085.150,    534.200,    0 !   !END!  GR_M0920
DSC0977 ! X =   658.2500,   6085.150,    536.808,    0 !   !END!  GR_M0921
DSC0978 ! X =   658.3000,   6085.150,    537.778,    0 !   !END!  GR_M0922
DSC0979 ! X =   657.3000,   6085.200,    486.028,    0 !   !END!  GR_M0923
DSC0980 ! X =   657.3500,   6085.200,    487.873,    0 !   !END!  GR_M0924
DSC0981 ! X =   657.4000,   6085.200,    490.832,    0 !   !END!  GR_M0925
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DSC0982 ! X =   657.4500,   6085.200,    495.494,    0 !   !END!  GR_M0926
DSC0983 ! X =   657.5000,   6085.200,    500.162,    0 !   !END!  GR_M0927
DSC0984 ! X =   657.5500,   6085.200,    504.819,    0 !   !END!  GR_M0928
DSC0985 ! X =   657.6000,   6085.200,    509.963,    0 !   !END!  GR_M0929
DSC0986 ! X =   657.6500,   6085.200,    517.579,    0 !   !END!  GR_M0930
DSC0987 ! X =   657.7000,   6085.200,    527.594,    0 !   !END!  GR_M0931
DSC0988 ! X =   657.7500,   6085.200,    533.405,    0 !   !END!  GR_M0932
DSC0989 ! X =   657.8000,   6085.200,    534.691,    0 !   !END!  GR_M0933
DSC0990 ! X =   657.8500,   6085.200,    533.890,    0 !   !END!  GR_M0934
DSC0991 ! X =   657.9000,   6085.200,    533.000,    0 !   !END!  GR_M0935
DSC0992 ! X =   657.9500,   6085.200,    531.649,    0 !   !END!  GR_M0936
DSC0993 ! X =   658.0000,   6085.200,    532.000,    0 !   !END!  GR_M0937
DSC0994 ! X =   658.0500,   6085.200,    532.312,    0 !   !END!  GR_M0938
DSC0995 ! X =   658.1000,   6085.200,    533.205,    0 !   !END!  GR_M0939
DSC0996 ! X =   658.1500,   6085.200,    534.673,    0 !   !END!  GR_M0940
DSC0997 ! X =   658.2000,   6085.200,    536.401,    0 !   !END!  GR_M0941
DSC0998 ! X =   658.2500,   6085.200,    538.092,    0 !   !END!  GR_M0942
DSC0999 ! X =   658.3000,   6085.200,    539.767,    0 !   !END!  GR_M0943
DSC1000 ! X =   657.3000,   6085.250,    487.116,    0 !   !END!  GR_M0944
DSC1001 ! X =   657.3500,   6085.250,    488.968,    0 !   !END!  GR_M0945
DSC1002 ! X =   657.4000,   6085.250,    492.966,    0 !   !END!  GR_M0946
DSC1003 ! X =   657.4500,   6085.250,    497.779,    0 !   !END!  GR_M0947
DSC1004 ! X =   657.5000,   6085.250,    502.893,    0 !   !END!  GR_M0948
DSC1005 ! X =   657.5500,   6085.250,    508.334,    0 !   !END!  GR_M0949
DSC1006 ! X =   657.6000,   6085.250,    512.864,    0 !   !END!  GR_M0950
DSC1007 ! X =   657.6500,   6085.250,    521.214,    0 !   !END!  GR_M0951
DSC1008 ! X =   657.7000,   6085.250,    531.192,    0 !   !END!  GR_M0952
DSC1009 ! X =   657.7500,   6085.250,    534.923,    0 !   !END!  GR_M0953
DSC1010 ! X =   657.8000,   6085.250,    535.000,    0 !   !END!  GR_M0954
DSC1011 ! X =   657.8500,   6085.250,    533.000,    0 !   !END!  GR_M0955
DSC1012 ! X =   657.9000,   6085.250,    532.000,    0 !   !END!  GR_M0956
DSC1013 ! X =   657.9500,   6085.250,    532.489,    0 !   !END!  GR_M0957
DSC1014 ! X =   658.0000,   6085.250,    533.000,    0 !   !END!  GR_M0958
DSC1015 ! X =   658.0500,   6085.250,    534.000,    0 !   !END!  GR_M0959
DSC1016 ! X =   658.1000,   6085.250,    535.000,    0 !   !END!  GR_M0960
DSC1017 ! X =   658.1500,   6085.250,    536.314,    0 !   !END!  GR_M0961
DSC1018 ! X =   658.2000,   6085.250,    538.116,    0 !   !END!  GR_M0962
DSC1019 ! X =   658.2500,   6085.250,    540.036,    0 !   !END!  GR_M0963
DSC1020 ! X =   658.3000,   6085.250,    541.088,    0 !   !END!  GR_M0964
DSC1021 ! X =   657.3000,   6085.300,    487.322,    0 !   !END!  GR_M0965
DSC1022 ! X =   657.3500,   6085.300,    490.061,    0 !   !END!  GR_M0966
DSC1023 ! X =   657.4000,   6085.300,    494.285,    0 !   !END!  GR_M0967
DSC1024 ! X =   657.4500,   6085.300,    499.825,    0 !   !END!  GR_M0968
DSC1025 ! X =   657.5000,   6085.300,    506.856,    0 !   !END!  GR_M0969
DSC1026 ! X =   657.5500,   6085.300,    512.774,    0 !   !END!  GR_M0970
DSC1027 ! X =   657.6000,   6085.300,    516.360,    0 !   !END!  GR_M0971
DSC1028 ! X =   657.6500,   6085.300,    526.535,    0 !   !END!  GR_M0972
DSC1029 ! X =   657.7000,   6085.300,    534.376,    0 !   !END!  GR_M0973
DSC1030 ! X =   657.7500,   6085.300,    536.000,    0 !   !END!  GR_M0974
DSC1031 ! X =   657.8000,   6085.300,    544.000,    0 !   !END!  GR_M0975
DSC1032 ! X =   657.8500,   6085.300,    533.000,    0 !   !END!  GR_M0976
DSC1033 ! X =   657.9000,   6085.300,    532.876,    0 !   !END!  GR_M0977
DSC1034 ! X =   657.9500,   6085.300,    533.000,    0 !   !END!  GR_M0978
DSC1035 ! X =   658.0000,   6085.300,    534.000,    0 !   !END!  GR_M0979
DSC1036 ! X =   658.0500,   6085.300,    535.000,    0 !   !END!  GR_M0980
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DSC1037 ! X =   658.1000,   6085.300,    536.546,    0 !   !END!  GR_M0981
DSC1038 ! X =   658.1500,   6085.300,    537.930,    0 !   !END!  GR_M0982
DSC1039 ! X =   658.2000,   6085.300,    539.764,    0 !   !END!  GR_M0983
DSC1040 ! X =   658.2500,   6085.300,    541.320,    0 !   !END!  GR_M0984
DSC1041 ! X =   658.3000,   6085.300,    543.243,    0 !   !END!  GR_M0985
DSC1042 ! X =   657.3000,   6085.350,    487.000,    0 !   !END!  GR_M0986
DSC1043 ! X =   657.3500,   6085.350,    490.190,    0 !   !END!  GR_M0987
DSC1044 ! X =   657.4000,   6085.350,    494.930,    0 !   !END!  GR_M0988
DSC1045 ! X =   657.4500,   6085.350,    501.338,    0 !   !END!  GR_M0989
DSC1046 ! X =   657.5000,   6085.350,    509.672,    0 !   !END!  GR_M0990
DSC1047 ! X =   657.5500,   6085.350,    517.214,    0 !   !END!  GR_M0991
DSC1048 ! X =   657.6000,   6085.350,    520.682,    0 !   !END!  GR_M0992
DSC1049 ! X =   657.6500,   6085.350,    531.245,    0 !   !END!  GR_M0993
DSC1050 ! X =   657.7000,   6085.350,    536.110,    0 !   !END!  GR_M0994
DSC1051 ! X =   657.7500,   6085.350,    544.000,    0 !   !END!  GR_M0995
DSC1052 ! X =   657.8000,   6085.350,    544.000,    0 !   !END!  GR_M0996
DSC1053 ! X =   657.8500,   6085.350,    544.000,    0 !   !END!  GR_M0997
DSC1054 ! X =   657.9000,   6085.350,    533.000,    0 !   !END!  GR_M0998
DSC1055 ! X =   657.9500,   6085.350,    533.930,    0 !   !END!  GR_M0999
DSC1056 ! X =   658.0000,   6085.350,    534.969,    0 !   !END!  GR_M1000
DSC1057 ! X =   658.0500,   6085.350,    536.000,    0 !   !END!  GR_M1001
DSC1058 ! X =   658.1000,   6085.350,    537.780,    0 !   !END!  GR_M1002
DSC1059 ! X =   658.1500,   6085.350,    539.624,    0 !   !END!  GR_M1003
DSC1060 ! X =   658.2000,   6085.350,    540.883,    0 !   !END!  GR_M1004
DSC1061 ! X =   658.2500,   6085.350,    542.725,    0 !   !END!  GR_M1005
DSC1062 ! X =   658.3000,   6085.350,    544.614,    0 !   !END!  GR_M1006
DSC1063 ! X =   657.3000,   6085.400,    488.038,    0 !   !END!  GR_M1007
DSC1064 ! X =   657.3500,   6085.400,    491.320,    0 !   !END!  GR_M1008
DSC1065 ! X =   657.4000,   6085.400,    496.059,    0 !   !END!  GR_M1009
DSC1066 ! X =   657.4500,   6085.400,    501.597,    0 !   !END!  GR_M1010
DSC1067 ! X =   657.5000,   6085.400,    512.786,    0 !   !END!  GR_M1011
DSC1068 ! X =   657.5500,   6085.400,    520.159,    0 !   !END!  GR_M1012
DSC1069 ! X =   657.6000,   6085.400,    524.646,    0 !   !END!  GR_M1013
DSC1070 ! X =   657.6500,   6085.400,    532.501,    0 !   !END!  GR_M1014
DSC1071 ! X =   657.7000,   6085.400,    544.000,    0 !   !END!  GR_M1015
DSC1072 ! X =   657.7500,   6085.400,    544.000,    0 !   !END!  GR_M1016
DSC1073 ! X =   657.8000,   6085.400,    544.000,    0 !   !END!  GR_M1017
DSC1074 ! X =   657.8500,   6085.400,    544.000,    0 !   !END!  GR_M1018
DSC1075 ! X =   657.9000,   6085.400,    544.000,    0 !   !END!  GR_M1019
DSC1076 ! X =   657.9500,   6085.400,    534.000,    0 !   !END!  GR_M1020
DSC1077 ! X =   658.0000,   6085.400,    535.000,    0 !   !END!  GR_M1021
DSC1078 ! X =   658.0500,   6085.400,    536.977,    0 !   !END!  GR_M1022
DSC1079 ! X =   658.1000,   6085.400,    538.398,    0 !   !END!  GR_M1023
DSC1080 ! X =   658.1500,   6085.400,    540.809,    0 !   !END!  GR_M1024
DSC1081 ! X =   658.2000,   6085.400,    542.612,    0 !   !END!  GR_M1025
DSC1082 ! X =   658.2500,   6085.400,    544.385,    0 !   !END!  GR_M1026
DSC1083 ! X =   658.3000,   6085.400,    546.194,    0 !   !END!  GR_M1027
DSC1084 ! X =   657.3000,   6085.450,    489.778,    0 !   !END!  GR_M1028
DSC1085 ! X =   657.3500,   6085.450,    492.603,    0 !   !END!  GR_M1029
DSC1086 ! X =   657.4000,   6085.450,    497.194,    0 !   !END!  GR_M1030
DSC1087 ! X =   657.4500,   6085.450,    502.861,    0 !   !END!  GR_M1031
DSC1088 ! X =   657.5000,   6085.450,    515.920,    0 !   !END!  GR_M1032
DSC1089 ! X =   657.5500,   6085.450,    522.315,    0 !   !END!  GR_M1033
DSC1090 ! X =   657.6000,   6085.450,    527.258,    0 !   !END!  GR_M1034
DSC1091 ! X =   657.6500,   6085.450,    544.000,    0 !   !END!  GR_M1035
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DSC1092 ! X =   657.7000,   6085.450,    544.000,    0 !   !END!  GR_M1036
DSC1093 ! X =   657.7500,   6085.450,    544.000,    0 !   !END!  GR_M1037
DSC1094 ! X =   657.8000,   6085.450,    544.000,    0 !   !END!  GR_M1038
DSC1095 ! X =   657.8500,   6085.450,    544.000,    0 !   !END!  GR_M1039
DSC1096 ! X =   657.9000,   6085.450,    544.000,    0 !   !END!  GR_M1040
DSC1097 ! X =   657.9500,   6085.450,    544.000,    0 !   !END!  GR_M1041
DSC1098 ! X =   658.0000,   6085.450,    536.000,    0 !   !END!  GR_M1042
DSC1099 ! X =   658.0500,   6085.450,    537.000,    0 !   !END!  GR_M1043
DSC1100 ! X =   658.1000,   6085.450,    539.528,    0 !   !END!  GR_M1044
DSC1101 ! X =   658.1500,   6085.450,    541.250,    0 !   !END!  GR_M1045
DSC1102 ! X =   658.2000,   6085.450,    543.859,    0 !   !END!  GR_M1046
DSC1103 ! X =   658.2500,   6085.450,    545.578,    0 !   !END!  GR_M1047
DSC1104 ! X =   658.3000,   6085.450,    547.340,    0 !   !END!  GR_M1048
DSC1105 ! X =   657.3000,   6085.500,    490.845,    0 !   !END!  GR_M1049
DSC1106 ! X =   657.3500,   6085.500,    494.584,    0 !   !END!  GR_M1050
DSC1107 ! X =   657.4000,   6085.500,    497.550,    0 !   !END!  GR_M1051
DSC1108 ! X =   657.4500,   6085.500,    503.400,    0 !   !END!  GR_M1052
DSC1109 ! X =   657.5000,   6085.500,    518.419,    0 !   !END!  GR_M1053
DSC1110 ! X =   657.5500,   6085.500,    524.070,    0 !   !END!  GR_M1054
DSC1111 ! X =   657.6000,   6085.500,    544.000,    0 !   !END!  GR_M1055
DSC1112 ! X =   657.6500,   6085.500,    544.000,    0 !   !END!  GR_M1056
DSC1113 ! X =   657.7000,   6085.500,    544.000,    0 !   !END!  GR_M1057
DSC1114 ! X =   657.7500,   6085.500,    544.000,    0 !   !END!  GR_M1058
DSC1115 ! X =   657.8000,   6085.500,    544.000,    0 !   !END!  GR_M1059
DSC1116 ! X =   657.8500,   6085.500,    544.000,    0 !   !END!  GR_M1060
DSC1117 ! X =   657.9000,   6085.500,    544.000,    0 !   !END!  GR_M1061
DSC1118 ! X =   657.9500,   6085.500,    541.000,    0 !   !END!  GR_M1062
DSC1119 ! X =   658.0000,   6085.500,    541.000,    0 !   !END!  GR_M1063
DSC1120 ! X =   658.0500,   6085.500,    537.000,    0 !   !END!  GR_M1064
DSC1121 ! X =   658.1000,   6085.500,    539.658,    0 !   !END!  GR_M1065
DSC1122 ! X =   658.1500,   6085.500,    542.036,    0 !   !END!  GR_M1066
DSC1123 ! X =   658.2000,   6085.500,    544.147,    0 !   !END!  GR_M1067
DSC1124 ! X =   658.2500,   6085.500,    546.819,    0 !   !END!  GR_M1068
DSC1125 ! X =   658.3000,   6085.500,    548.000,    0 !   !END!  GR_M1069
DSC1126 ! X =   657.3000,   6085.550,    490.979,    0 !   !END!  GR_M1070
DSC1127 ! X =   657.3500,   6085.550,    496.168,    0 !   !END!  GR_M1071
DSC1128 ! X =   657.4000,   6085.550,    499.835,    0 !   !END!  GR_M1072
DSC1129 ! X =   657.4500,   6085.550,    507.187,    0 !   !END!  GR_M1073
DSC1130 ! X =   657.5000,   6085.550,    519.794,    0 !   !END!  GR_M1074
DSC1131 ! X =   657.5500,   6085.550,    524.670,    0 !   !END!  GR_M1075
DSC1132 ! X =   657.6000,   6085.550,    544.000,    0 !   !END!  GR_M1076
DSC1133 ! X =   657.6500,   6085.550,    544.000,    0 !   !END!  GR_M1077
DSC1134 ! X =   657.7000,   6085.550,    544.000,    0 !   !END!  GR_M1078
DSC1135 ! X =   657.7500,   6085.550,    544.000,    0 !   !END!  GR_M1079
DSC1136 ! X =   657.8000,   6085.550,    544.000,    0 !   !END!  GR_M1080
DSC1137 ! X =   657.8500,   6085.550,    544.000,    0 !   !END!  GR_M1081
DSC1138 ! X =   657.9000,   6085.550,    541.000,    0 !   !END!  GR_M1082
DSC1139 ! X =   657.9500,   6085.550,    541.000,    0 !   !END!  GR_M1083
DSC1140 ! X =   658.0000,   6085.550,    541.000,    0 !   !END!  GR_M1084
DSC1141 ! X =   658.0500,   6085.550,    541.000,    0 !   !END!  GR_M1085
DSC1142 ! X =   658.1000,   6085.550,    541.000,    0 !   !END!  GR_M1086
DSC1143 ! X =   658.1500,   6085.550,    542.531,    0 !   !END!  GR_M1087
DSC1144 ! X =   658.2000,   6085.550,    545.266,    0 !   !END!  GR_M1088
DSC1145 ! X =   658.2500,   6085.550,    548.000,    0 !   !END!  GR_M1089
DSC1146 ! X =   658.3000,   6085.550,    548.989,    0 !   !END!  GR_M1090
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DSC1147 ! X =   657.3000,   6085.600,    491.829,    0 !   !END!  GR_M1091
DSC1148 ! X =   657.3500,   6085.600,    498.306,    0 !   !END!  GR_M1092
DSC1149 ! X =   657.4000,   6085.600,    502.934,    0 !   !END!  GR_M1093
DSC1150 ! X =   657.4500,   6085.600,    510.738,    0 !   !END!  GR_M1094
DSC1151 ! X =   657.5000,   6085.600,    520.061,    0 !   !END!  GR_M1095
DSC1152 ! X =   657.5500,   6085.600,    524.800,    0 !   !END!  GR_M1096
DSC1153 ! X =   657.6000,   6085.600,    544.000,    0 !   !END!  GR_M1097
DSC1154 ! X =   657.6500,   6085.600,    544.000,    0 !   !END!  GR_M1098
DSC1155 ! X =   657.7000,   6085.600,    544.000,    0 !   !END!  GR_M1099
DSC1156 ! X =   657.7500,   6085.600,    544.000,    0 !   !END!  GR_M1100
DSC1157 ! X =   657.8500,   6085.600,    541.000,    0 !   !END!  GR_M1101
DSC1158 ! X =   657.9000,   6085.600,    541.000,    0 !   !END!  GR_M1102
DSC1159 ! X =   657.9500,   6085.600,    541.000,    0 !   !END!  GR_M1103
DSC1160 ! X =   658.0000,   6085.600,    541.000,    0 !   !END!  GR_M1104
DSC1161 ! X =   658.0500,   6085.600,    541.000,    0 !   !END!  GR_M1105
DSC1162 ! X =   658.1000,   6085.600,    541.000,    0 !   !END!  GR_M1106
DSC1163 ! X =   658.1500,   6085.600,    541.000,    0 !   !END!  GR_M1107
DSC1164 ! X =   658.2000,   6085.600,    544.806,    0 !   !END!  GR_M1108
DSC1165 ! X =   658.2500,   6085.600,    547.754,    0 !   !END!  GR_M1109
DSC1166 ! X =   658.3000,   6085.600,    546.782,    0 !   !END!  GR_M1110
DSC1167 ! X =   657.3000,   6085.650,    492.477,    0 !   !END!  GR_M1111
DSC1168 ! X =   657.3500,   6085.650,    499.720,    0 !   !END!  GR_M1112
DSC1169 ! X =   657.4000,   6085.650,    506.122,    0 !   !END!  GR_M1113
DSC1170 ! X =   657.4500,   6085.650,    513.528,    0 !   !END!  GR_M1114
DSC1171 ! X =   657.5000,   6085.650,    520.195,    0 !   !END!  GR_M1115
DSC1172 ! X =   657.5500,   6085.650,    524.467,    0 !   !END!  GR_M1116
DSC1173 ! X =   657.6000,   6085.650,    527.411,    0 !   !END!  GR_M1117
DSC1174 ! X =   657.6500,   6085.650,    544.000,    0 !   !END!  GR_M1118
DSC1175 ! X =   657.7000,   6085.650,    544.000,    0 !   !END!  GR_M1119
DSC1176 ! X =   657.7500,   6085.650,    544.000,    0 !   !END!  GR_M1120
DSC1177 ! X =   657.8000,   6085.650,    531.291,    0 !   !END!  GR_M1121
DSC1178 ! X =   657.8500,   6085.650,    541.000,    0 !   !END!  GR_M1122
DSC1179 ! X =   657.9000,   6085.650,    541.000,    0 !   !END!  GR_M1123
DSC1180 ! X =   657.9500,   6085.650,    541.000,    0 !   !END!  GR_M1124
DSC1181 ! X =   658.0000,   6085.650,    541.000,    0 !   !END!  GR_M1125
DSC1182 ! X =   658.0500,   6085.650,    541.000,    0 !   !END!  GR_M1126
DSC1183 ! X =   658.1000,   6085.650,    541.000,    0 !   !END!  GR_M1127
DSC1184 ! X =   658.1500,   6085.650,    541.795,    0 !   !END!  GR_M1128
DSC1185 ! X =   658.2000,   6085.650,    543.276,    0 !   !END!  GR_M1129
DSC1186 ! X =   658.2500,   6085.650,    544.197,    0 !   !END!  GR_M1130
DSC1187 ! X =   658.3000,   6085.650,    542.018,    0 !   !END!  GR_M1131
DSC1188 ! X =   657.3000,   6085.700,    493.744,    0 !   !END!  GR_M1132
DSC1189 ! X =   657.3500,   6085.700,    500.214,    0 !   !END!  GR_M1133
DSC1190 ! X =   657.4000,   6085.700,    507.693,    0 !   !END!  GR_M1134
DSC1191 ! X =   657.4500,   6085.700,    515.491,    0 !   !END!  GR_M1135
DSC1192 ! X =   657.5000,   6085.700,    520.325,    0 !   !END!  GR_M1136
DSC1193 ! X =   657.5500,   6085.700,    524.024,    0 !   !END!  GR_M1137
DSC1194 ! X =   657.6000,   6085.700,    525.894,    0 !   !END!  GR_M1138
DSC1195 ! X =   657.6500,   6085.700,    527.531,    0 !   !END!  GR_M1139
DSC1196 ! X =   657.7000,   6085.700,    529.325,    0 !   !END!  GR_M1140
DSC1197 ! X =   657.7500,   6085.700,    529.685,    0 !   !END!  GR_M1141
DSC1198 ! X =   657.8000,   6085.700,    541.000,    0 !   !END!  GR_M1142
DSC1199 ! X =   657.8500,   6085.700,    541.000,    0 !   !END!  GR_M1143
DSC1200 ! X =   657.9000,   6085.700,    541.000,    0 !   !END!  GR_M1144
DSC1201 ! X =   657.9500,   6085.700,    541.000,    0 !   !END!  GR_M1145
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DSC1202 ! X =   658.0000,   6085.700,    541.000,    0 !   !END!  GR_M1146
DSC1203 ! X =   658.0500,   6085.700,    541.000,    0 !   !END!  GR_M1147
DSC1204 ! X =   658.1000,   6085.700,    539.040,    0 !   !END!  GR_M1148
DSC1205 ! X =   658.1500,   6085.700,    540.290,    0 !   !END!  GR_M1149
DSC1206 ! X =   658.2000,   6085.700,    541.366,    0 !   !END!  GR_M1150
DSC1207 ! X =   658.2500,   6085.700,    540.483,    0 !   !END!  GR_M1151
DSC1208 ! X =   658.3000,   6085.700,    536.344,    0 !   !END!  GR_M1152
DSC1209 ! X =   657.3000,   6085.750,    495.080,    0 !   !END!  GR_M1153
DSC1210 ! X =   657.3500,   6085.750,    501.242,    0 !   !END!  GR_M1154
DSC1211 ! X =   657.4000,   6085.750,    508.962,    0 !   !END!  GR_M1155
DSC1212 ! X =   657.4500,   6085.750,    517.357,    0 !   !END!  GR_M1156
DSC1213 ! X =   657.5000,   6085.750,    521.000,    0 !   !END!  GR_M1157
DSC1214 ! X =   657.5500,   6085.750,    523.377,    0 !   !END!  GR_M1158
DSC1215 ! X =   657.6000,   6085.750,    524.304,    0 !   !END!  GR_M1159
DSC1216 ! X =   657.6500,   6085.750,    525.381,    0 !   !END!  GR_M1160
DSC1217 ! X =   657.7000,   6085.750,    526.453,    0 !   !END!  GR_M1161
DSC1218 ! X =   657.7500,   6085.750,    527.059,    0 !   !END!  GR_M1162
DSC1219 ! X =   657.8000,   6085.750,    541.000,    0 !   !END!  GR_M1163
DSC1220 ! X =   657.8500,   6085.750,    541.000,    0 !   !END!  GR_M1164
DSC1221 ! X =   657.9000,   6085.750,    541.000,    0 !   !END!  GR_M1165
DSC1222 ! X =   657.9500,   6085.750,    541.000,    0 !   !END!  GR_M1166
DSC1223 ! X =   658.0000,   6085.750,    541.000,    0 !   !END!  GR_M1167
DSC1224 ! X =   658.0500,   6085.750,    536.581,    0 !   !END!  GR_M1168
DSC1225 ! X =   658.1000,   6085.750,    538.362,    0 !   !END!  GR_M1169
DSC1226 ! X =   658.1500,   6085.750,    539.134,    0 !   !END!  GR_M1170
DSC1227 ! X =   658.2000,   6085.750,    538.418,    0 !   !END!  GR_M1171
DSC1228 ! X =   658.2500,   6085.750,    536.755,    0 !   !END!  GR_M1172
DSC1229 ! X =   658.3000,   6085.750,    531.186,    0 !   !END!  GR_M1173
DSC1230 ! X =   657.3000,   6085.800,    495.632,    0 !   !END!  GR_M1174
DSC1231 ! X =   657.3500,   6085.800,    501.371,    0 !   !END!  GR_M1175
DSC1232 ! X =   657.4000,   6085.800,    509.084,    0 !   !END!  GR_M1176
DSC1233 ! X =   657.4500,   6085.800,    517.622,    0 !   !END!  GR_M1177
DSC1234 ! X =   657.5000,   6085.800,    520.584,    0 !   !END!  GR_M1178
DSC1235 ! X =   657.5500,   6085.800,    522.072,    0 !   !END!  GR_M1179
DSC1236 ! X =   657.6000,   6085.800,    522.149,    0 !   !END!  GR_M1180
DSC1237 ! X =   657.6500,   6085.800,    522.226,    0 !   !END!  GR_M1181
DSC1238 ! X =   657.7000,   6085.800,    523.459,    0 !   !END!  GR_M1182
DSC1239 ! X =   657.7500,   6085.800,    524.374,    0 !   !END!  GR_M1183
DSC1240 ! X =   657.8000,   6085.800,    526.000,    0 !   !END!  GR_M1184
DSC1241 ! X =   657.8500,   6085.800,    541.000,    0 !   !END!  GR_M1185
DSC1242 ! X =   657.9000,   6085.800,    541.000,    0 !   !END!  GR_M1186
DSC1243 ! X =   657.9500,   6085.800,    541.000,    0 !   !END!  GR_M1187
DSC1244 ! X =   658.0000,   6085.800,    541.000,    0 !   !END!  GR_M1188
DSC1245 ! X =   658.0500,   6085.800,    536.000,    0 !   !END!  GR_M1189
DSC1246 ! X =   658.1000,   6085.800,    537.000,    0 !   !END!  GR_M1190
DSC1247 ! X =   658.1500,   6085.800,    536.984,    0 !   !END!  GR_M1191
DSC1248 ! X =   658.2000,   6085.800,    536.060,    0 !   !END!  GR_M1192
DSC1249 ! X =   658.2500,   6085.800,    533.466,    0 !   !END!  GR_M1193
DSC1250 ! X =   658.3000,   6085.800,    526.616,    0 !   !END!  GR_M1194
DSC1251 ! X =   657.3000,   6085.850,    496.523,    0 !   !END!  GR_M1195
DSC1252 ! X =   657.3500,   6085.850,    501.501,    0 !   !END!  GR_M1196
DSC1253 ! X =   657.4000,   6085.850,    508.245,    0 !   !END!  GR_M1197
DSC1254 ! X =   657.4500,   6085.850,    515.499,    0 !   !END!  GR_M1198
DSC1255 ! X =   657.5000,   6085.850,    518.795,    0 !   !END!  GR_M1199
DSC1256 ! X =   657.5500,   6085.850,    520.834,    0 !   !END!  GR_M1200
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DSC1257 ! X =   657.6000,   6085.850,    518.994,    0 !   !END!  GR_M1201
DSC1258 ! X =   657.6500,   6085.850,    519.141,    0 !   !END!  GR_M1202
DSC1259 ! X =   657.7000,   6085.850,    521.142,    0 !   !END!  GR_M1203
DSC1260 ! X =   657.7500,   6085.850,    522.539,    0 !   !END!  GR_M1204
DSC1261 ! X =   657.8000,   6085.850,    526.105,    0 !   !END!  GR_M1205
DSC1262 ! X =   657.8500,   6085.850,    529.515,    0 !   !END!  GR_M1206
DSC1263 ! X =   657.9000,   6085.850,    541.000,    0 !   !END!  GR_M1207
DSC1264 ! X =   657.9500,   6085.850,    541.000,    0 !   !END!  GR_M1208
DSC1265 ! X =   658.0000,   6085.850,    534.106,    0 !   !END!  GR_M1209
DSC1266 ! X =   658.0500,   6085.850,    535.950,    0 !   !END!  GR_M1210
DSC1267 ! X =   658.1000,   6085.850,    535.608,    0 !   !END!  GR_M1211
DSC1268 ! X =   658.1500,   6085.850,    534.774,    0 !   !END!  GR_M1212
DSC1269 ! X =   658.2000,   6085.850,    532.802,    0 !   !END!  GR_M1213
DSC1270 ! X =   658.2500,   6085.850,    529.141,    0 !   !END!  GR_M1214
DSC1271 ! X =   658.3000,   6085.850,    521.062,    0 !   !END!  GR_M1215
DSC1272 ! X =   657.3000,   6085.900,    495.896,    0 !   !END!  GR_M1216
DSC1273 ! X =   657.3500,   6085.900,    501.635,    0 !   !END!  GR_M1217
DSC1274 ! X =   657.4000,   6085.900,    507.396,    0 !   !END!  GR_M1218
DSC1275 ! X =   657.4500,   6085.900,    510.292,    0 !   !END!  GR_M1219
DSC1276 ! X =   657.5000,   6085.900,    513.902,    0 !   !END!  GR_M1220
DSC1277 ! X =   657.5500,   6085.900,    516.425,    0 !   !END!  GR_M1221
DSC1278 ! X =   657.6000,   6085.900,    515.677,    0 !   !END!  GR_M1222
DSC1279 ! X =   657.6500,   6085.900,    516.975,    0 !   !END!  GR_M1223
DSC1280 ! X =   657.3000,   6085.950,    495.258,    0 !   !END!  GR_M1224
DSC1281 ! X =   657.3500,   6085.950,    500.834,    0 !   !END!  GR_M1225
DSC1282 ! X =   657.4000,   6085.950,    504.074,    0 !   !END!  GR_M1226
DSC1283 ! X =   657.4500,   6085.950,    504.373,    0 !   !END!  GR_M1227
DSC1284 ! X =   657.5000,   6085.950,    507.128,    0 !   !END!  GR_M1228
DSC1285 ! X =   657.5500,   6085.950,    509.708,    0 !   !END!  GR_M1229
DSC1286 ! X =   657.6000,   6085.950,    511.822,    0 !   !END!  GR_M1230
DSC1287 ! X =   657.6500,   6085.950,    514.807,    0 !   !END!  GR_M1231
DSC1288 ! X =   657.3000,   6086.000,    493.387,    0 !   !END!  GR_M1232
DSC1289 ! X =   657.3500,   6086.000,    498.043,    0 !   !END!  GR_M1233
DSC1290 ! X =   657.4000,   6086.000,    500.859,    0 !   !END!  GR_M1234
DSC1291 ! X =   657.4500,   6086.000,    500.415,    0 !   !END!  GR_M1235
DSC1292 ! X =   657.5000,   6086.000,    501.758,    0 !   !END!  GR_M1236
DSC1293 ! X =   657.5500,   6086.000,    503.835,    0 !   !END!  GR_M1237
DSC1294 ! X =   657.6000,   6086.000,    509.118,    0 !   !END!  GR_M1238
DSC1295 ! X =   657.6500,   6086.000,    513.725,    0 !   !END!  GR_M1239
DSC1296 ! X =   657.3000,   6086.050,    491.556,    0 !   !END!  GR_M1240
DSC1297 ! X =   657.3500,   6086.050,    495.994,    0 !   !END!  GR_M1241
DSC1298 ! X =   657.4000,   6086.050,    498.070,    0 !   !END!  GR_M1242
DSC1299 ! X =   657.4500,   6086.050,    498.576,    0 !   !END!  GR_M1243
DSC1300 ! X =   657.5000,   6086.050,    500.242,    0 !   !END!  GR_M1244
DSC1301 ! X =   657.5500,   6086.050,    502.690,    0 !   !END!  GR_M1245
DSC1302 ! X =   657.6000,   6086.050,    509.172,    0 !   !END!  GR_M1246
DSC1303 ! X =   657.6500,   6086.050,    515.010,    0 !   !END!  GR_M1247
DSC1304 ! X =   657.3000,   6086.100,    490.419,    0 !   !END!  GR_M1248
DSC1305 ! X =   657.3500,   6086.100,    494.134,    0 !   !END!  GR_M1249
DSC1306 ! X =   657.4000,   6086.100,    496.076,    0 !   !END!  GR_M1250
DSC1307 ! X =   657.4500,   6086.100,    499.005,    0 !   !END!  GR_M1251
DSC1308 ! X =   657.5000,   6086.100,    501.931,    0 !   !END!  GR_M1252
DSC1309 ! X =   657.5500,   6086.100,    505.068,    0 !   !END!  GR_M1253
DSC1310 ! X =   657.6000,   6086.100,    511.482,    0 !   !END!  GR_M1254
DSC1311 ! X =   657.6500,   6086.100,    518.173,    0 !   !END!  GR_M1255
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DSC1312 ! X =   656.3000,   6084.300,    468.000,    0 !   !END!  GR_M1256
DSC1313 ! X =   656.3500,   6084.300,    468.000,    0 !   !END!  GR_M1257
DSC1314 ! X =   656.4000,   6084.300,    468.000,    0 !   !END!  GR_M1258
DSC1315 ! X =   656.4500,   6084.300,    468.000,    0 !   !END!  GR_M1259
DSC1316 ! X =   656.5000,   6084.300,    468.000,    0 !   !END!  GR_M1260
DSC1317 ! X =   656.5500,   6084.300,    468.000,    0 !   !END!  GR_M1261
DSC1318 ! X =   656.6000,   6084.300,    468.000,    0 !   !END!  GR_M1262
DSC1319 ! X =   656.6500,   6084.300,    468.000,    0 !   !END!  GR_M1263
DSC1320 ! X =   656.7000,   6084.300,    468.000,    0 !   !END!  GR_M1264
DSC1321 ! X =   656.7500,   6084.300,    468.000,    0 !   !END!  GR_M1265
DSC1322 ! X =   656.8000,   6084.300,    468.272,    0 !   !END!  GR_M1266
DSC1323 ! X =   656.8500,   6084.300,    471.427,    0 !   !END!  GR_M1267
DSC1324 ! X =   656.9000,   6084.300,    477.144,    0 !   !END!  GR_M1268
DSC1325 ! X =   656.9500,   6084.300,    481.918,    0 !   !END!  GR_M1269
DSC1326 ! X =   657.0000,   6084.300,    485.392,    0 !   !END!  GR_M1270
DSC1327 ! X =   657.0500,   6084.300,    488.040,    0 !   !END!  GR_M1271
DSC1328 ! X =   657.1000,   6084.300,    488.000,    0 !   !END!  GR_M1272
DSC1329 ! X =   657.1500,   6084.300,    485.565,    0 !   !END!  GR_M1273
DSC1330 ! X =   657.2000,   6084.300,    485.042,    0 !   !END!  GR_M1274
DSC1331 ! X =   657.2500,   6084.300,    486.991,    0 !   !END!  GR_M1275
DSC1332 ! X =   657.3000,   6084.300,    487.900,    0 !   !END!  GR_M1276
DSC1333 ! X =   656.3000,   6084.350,    468.000,    0 !   !END!  GR_M1277
DSC1334 ! X =   656.3500,   6084.350,    468.000,    0 !   !END!  GR_M1278
DSC1335 ! X =   656.4000,   6084.350,    468.000,    0 !   !END!  GR_M1279
DSC1336 ! X =   656.4500,   6084.350,    468.000,    0 !   !END!  GR_M1280
DSC1337 ! X =   656.5000,   6084.350,    468.000,    0 !   !END!  GR_M1281
DSC1338 ! X =   656.5500,   6084.350,    468.000,    0 !   !END!  GR_M1282
DSC1339 ! X =   656.6000,   6084.350,    468.000,    0 !   !END!  GR_M1283
DSC1340 ! X =   656.6500,   6084.350,    468.000,    0 !   !END!  GR_M1284
DSC1341 ! X =   656.7000,   6084.350,    468.000,    0 !   !END!  GR_M1285
DSC1342 ! X =   656.7500,   6084.350,    468.935,    0 !   !END!  GR_M1286
DSC1343 ! X =   656.8000,   6084.350,    472.602,    0 !   !END!  GR_M1287
DSC1344 ! X =   656.8500,   6084.350,    476.182,    0 !   !END!  GR_M1288
DSC1345 ! X =   656.9000,   6084.350,    481.714,    0 !   !END!  GR_M1289
DSC1346 ! X =   656.9500,   6084.350,    485.575,    0 !   !END!  GR_M1290
DSC1347 ! X =   657.0000,   6084.350,    487.567,    0 !   !END!  GR_M1291
DSC1348 ! X =   657.0500,   6084.350,    489.000,    0 !   !END!  GR_M1292
DSC1349 ! X =   657.1000,   6084.350,    487.221,    0 !   !END!  GR_M1293
DSC1350 ! X =   657.1500,   6084.350,    487.042,    0 !   !END!  GR_M1294
DSC1351 ! X =   657.2000,   6084.350,    486.349,    0 !   !END!  GR_M1295
DSC1352 ! X =   657.2500,   6084.350,    488.000,    0 !   !END!  GR_M1296
DSC1353 ! X =   657.3000,   6084.350,    488.000,    0 !   !END!  GR_M1297
DSC1354 ! X =   656.3000,   6084.400,    468.000,    0 !   !END!  GR_M1298
DSC1355 ! X =   656.3500,   6084.400,    468.000,    0 !   !END!  GR_M1299
DSC1356 ! X =   656.4000,   6084.400,    468.000,    0 !   !END!  GR_M1300
DSC1357 ! X =   656.4500,   6084.400,    468.000,    0 !   !END!  GR_M1301
DSC1358 ! X =   656.5000,   6084.400,    468.000,    0 !   !END!  GR_M1302
DSC1359 ! X =   656.5500,   6084.400,    468.000,    0 !   !END!  GR_M1303
DSC1360 ! X =   656.6000,   6084.400,    468.000,    0 !   !END!  GR_M1304
DSC1361 ! X =   656.6500,   6084.400,    468.000,    0 !   !END!  GR_M1305
DSC1362 ! X =   656.7000,   6084.400,    468.207,    0 !   !END!  GR_M1306
DSC1363 ! X =   656.7500,   6084.400,    472.772,    0 !   !END!  GR_M1307
DSC1364 ! X =   656.8000,   6084.400,    476.317,    0 !   !END!  GR_M1308
DSC1365 ! X =   656.8500,   6084.400,    480.834,    0 !   !END!  GR_M1309
DSC1366 ! X =   656.9000,   6084.400,    486.180,    0 !   !END!  GR_M1310
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DSC1367 ! X =   656.9500,   6084.400,    488.304,    0 !   !END!  GR_M1311
DSC1368 ! X =   657.0000,   6084.400,    489.000,    0 !   !END!  GR_M1312
DSC1369 ! X =   657.0500,   6084.400,    489.819,    0 !   !END!  GR_M1313
DSC1370 ! X =   657.1000,   6084.400,    488.274,    0 !   !END!  GR_M1314
DSC1371 ! X =   657.1500,   6084.400,    488.049,    0 !   !END!  GR_M1315
DSC1372 ! X =   657.2000,   6084.400,    487.120,    0 !   !END!  GR_M1316
DSC1373 ! X =   657.2500,   6084.400,    488.000,    0 !   !END!  GR_M1317
DSC1374 ! X =   657.3000,   6084.400,    488.000,    0 !   !END!  GR_M1318
DSC1375 ! X =   656.3000,   6084.450,    468.000,    0 !   !END!  GR_M1319
DSC1376 ! X =   656.3500,   6084.450,    468.000,    0 !   !END!  GR_M1320
DSC1377 ! X =   656.4000,   6084.450,    468.000,    0 !   !END!  GR_M1321
DSC1378 ! X =   656.4500,   6084.450,    468.000,    0 !   !END!  GR_M1322
DSC1379 ! X =   656.5000,   6084.450,    468.000,    0 !   !END!  GR_M1323
DSC1380 ! X =   656.5500,   6084.450,    468.000,    0 !   !END!  GR_M1324
DSC1381 ! X =   656.6000,   6084.450,    468.000,    0 !   !END!  GR_M1325
DSC1382 ! X =   656.6500,   6084.450,    468.000,    0 !   !END!  GR_M1326
DSC1383 ! X =   656.7000,   6084.450,    472.277,    0 !   !END!  GR_M1327
DSC1384 ! X =   656.7500,   6084.450,    475.939,    0 !   !END!  GR_M1328
DSC1385 ! X =   656.8000,   6084.450,    479.602,    0 !   !END!  GR_M1329
DSC1386 ! X =   656.8500,   6084.450,    485.067,    0 !   !END!  GR_M1330
DSC1387 ! X =   656.9000,   6084.450,    488.731,    0 !   !END!  GR_M1331
DSC1388 ! X =   656.9500,   6084.450,    489.654,    0 !   !END!  GR_M1332
DSC1389 ! X =   657.0000,   6084.450,    490.000,    0 !   !END!  GR_M1333
DSC1390 ! X =   657.0500,   6084.450,    490.000,    0 !   !END!  GR_M1334
DSC1391 ! X =   657.1000,   6084.450,    489.000,    0 !   !END!  GR_M1335
DSC1392 ! X =   657.1500,   6084.450,    488.429,    0 !   !END!  GR_M1336
DSC1393 ! X =   657.2000,   6084.450,    488.000,    0 !   !END!  GR_M1337
DSC1394 ! X =   657.2500,   6084.450,    488.000,    0 !   !END!  GR_M1338
DSC1395 ! X =   657.3000,   6084.450,    488.000,    0 !   !END!  GR_M1339
DSC1396 ! X =   656.3000,   6084.500,    468.000,    0 !   !END!  GR_M1340
DSC1397 ! X =   656.3500,   6084.500,    468.000,    0 !   !END!  GR_M1341
DSC1398 ! X =   656.4000,   6084.500,    468.000,    0 !   !END!  GR_M1342
DSC1399 ! X =   656.4500,   6084.500,    468.000,    0 !   !END!  GR_M1343
DSC1400 ! X =   656.5000,   6084.500,    468.000,    0 !   !END!  GR_M1344
DSC1401 ! X =   656.5500,   6084.500,    468.000,    0 !   !END!  GR_M1345
DSC1402 ! X =   656.6000,   6084.500,    468.000,    0 !   !END!  GR_M1346
DSC1403 ! X =   656.6500,   6084.500,    469.798,    0 !   !END!  GR_M1347
DSC1404 ! X =   656.7000,   6084.500,    474.562,    0 !   !END!  GR_M1348
DSC1405 ! X =   656.7500,   6084.500,    479.224,    0 !   !END!  GR_M1349
DSC1406 ! X =   656.8000,   6084.500,    482.886,    0 !   !END!  GR_M1350
DSC1407 ! X =   656.8500,   6084.500,    487.549,    0 !   !END!  GR_M1351
DSC1408 ! X =   656.9000,   6084.500,    489.920,    0 !   !END!  GR_M1352
DSC1409 ! X =   656.9500,   6084.500,    491.000,    0 !   !END!  GR_M1353
DSC1410 ! X =   657.0000,   6084.500,    491.000,    0 !   !END!  GR_M1354
DSC1411 ! X =   657.0500,   6084.500,    490.000,    0 !   !END!  GR_M1355
DSC1412 ! X =   657.1000,   6084.500,    489.422,    0 !   !END!  GR_M1356
DSC1413 ! X =   657.1500,   6084.500,    488.984,    0 !   !END!  GR_M1357
DSC1414 ! X =   657.2000,   6084.500,    488.000,    0 !   !END!  GR_M1358
DSC1415 ! X =   657.2500,   6084.500,    488.000,    0 !   !END!  GR_M1359
DSC1416 ! X =   657.3000,   6084.500,    488.000,    0 !   !END!  GR_M1360
DSC1417 ! X =   656.3000,   6084.550,    468.000,    0 !   !END!  GR_M1361
DSC1418 ! X =   656.3500,   6084.550,    468.000,    0 !   !END!  GR_M1362
DSC1419 ! X =   656.4000,   6084.550,    468.000,    0 !   !END!  GR_M1363
DSC1420 ! X =   656.4500,   6084.550,    468.000,    0 !   !END!  GR_M1364
DSC1421 ! X =   656.5000,   6084.550,    468.000,    0 !   !END!  GR_M1365
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DSC1422 ! X =   656.5500,   6084.550,    468.000,    0 !   !END!  GR_M1366
DSC1423 ! X =   656.6000,   6084.550,    469.043,    0 !   !END!  GR_M1367
DSC1424 ! X =   656.6500,   6084.550,    473.281,    0 !   !END!  GR_M1368
DSC1425 ! X =   656.7000,   6084.550,    476.846,    0 !   !END!  GR_M1369
DSC1426 ! X =   656.7500,   6084.550,    481.246,    0 !   !END!  GR_M1370
DSC1427 ! X =   656.8000,   6084.550,    485.171,    0 !   !END!  GR_M1371
DSC1428 ! X =   656.8500,   6084.550,    488.720,    0 !   !END!  GR_M1372
DSC1429 ! X =   656.9000,   6084.550,    490.459,    0 !   !END!  GR_M1373
DSC1430 ! X =   656.9500,   6084.550,    491.000,    0 !   !END!  GR_M1374
DSC1431 ! X =   657.0000,   6084.550,    491.000,    0 !   !END!  GR_M1375
DSC1432 ! X =   657.0500,   6084.550,    490.000,    0 !   !END!  GR_M1376
DSC1433 ! X =   657.1000,   6084.550,    489.155,    0 !   !END!  GR_M1377
DSC1434 ! X =   657.1500,   6084.550,    489.000,    0 !   !END!  GR_M1378
DSC1435 ! X =   657.2000,   6084.550,    488.000,    0 !   !END!  GR_M1379
DSC1436 ! X =   657.2500,   6084.550,    488.000,    0 !   !END!  GR_M1380
DSC1437 ! X =   657.3000,   6084.550,    487.000,    0 !   !END!  GR_M1381
DSC1438 ! X =   656.3000,   6084.600,    468.000,    0 !   !END!  GR_M1382
DSC1439 ! X =   656.3500,   6084.600,    468.000,    0 !   !END!  GR_M1383
DSC1440 ! X =   656.4000,   6084.600,    468.000,    0 !   !END!  GR_M1384
DSC1441 ! X =   656.4500,   6084.600,    468.000,    0 !   !END!  GR_M1385
DSC1442 ! X =   656.5000,   6084.600,    468.000,    0 !   !END!  GR_M1386
DSC1443 ! X =   656.5500,   6084.600,    468.000,    0 !   !END!  GR_M1387
DSC1444 ! X =   656.6000,   6084.600,    472.268,    0 !   !END!  GR_M1388
DSC1445 ! X =   656.6500,   6084.600,    476.474,    0 !   !END!  GR_M1389
DSC1446 ! X =   656.7000,   6084.600,    479.131,    0 !   !END!  GR_M1390
DSC1447 ! X =   656.7500,   6084.600,    482.794,    0 !   !END!  GR_M1391
DSC1448 ! X =   656.8000,   6084.600,    486.421,    0 !   !END!  GR_M1392
DSC1449 ! X =   656.8500,   6084.600,    489.000,    0 !   !END!  GR_M1393
DSC1450 ! X =   656.9000,   6084.600,    489.000,    0 !   !END!  GR_M1394
DSC1451 ! X =   656.9500,   6084.600,    491.000,    0 !   !END!  GR_M1395
DSC1452 ! X =   657.0000,   6084.600,    490.897,    0 !   !END!  GR_M1396
DSC1453 ! X =   657.0500,   6084.600,    490.000,    0 !   !END!  GR_M1397
DSC1454 ! X =   657.1000,   6084.600,    489.000,    0 !   !END!  GR_M1398
DSC1455 ! X =   657.1500,   6084.600,    488.725,    0 !   !END!  GR_M1399
DSC1456 ! X =   657.2000,   6084.600,    488.000,    0 !   !END!  GR_M1400
DSC1457 ! X =   657.2500,   6084.600,    487.000,    0 !   !END!  GR_M1401
DSC1458 ! X =   657.3000,   6084.600,    486.711,    0 !   !END!  GR_M1402
DSC1459 ! X =   656.3000,   6084.650,    468.000,    0 !   !END!  GR_M1403
DSC1460 ! X =   656.3500,   6084.650,    468.000,    0 !   !END!  GR_M1404
DSC1461 ! X =   656.4000,   6084.650,    468.000,    0 !   !END!  GR_M1405
DSC1462 ! X =   656.4500,   6084.650,    468.000,    0 !   !END!  GR_M1406
DSC1463 ! X =   656.5000,   6084.650,    468.000,    0 !   !END!  GR_M1407
DSC1464 ! X =   656.5500,   6084.650,    471.304,    0 !   !END!  GR_M1408
DSC1465 ! X =   656.6000,   6084.650,    475.091,    0 !   !END!  GR_M1409
DSC1466 ! X =   656.6500,   6084.650,    478.758,    0 !   !END!  GR_M1410
DSC1467 ! X =   656.7000,   6084.650,    481.416,    0 !   !END!  GR_M1411
DSC1468 ! X =   656.7500,   6084.650,    484.789,    0 !   !END!  GR_M1412
DSC1469 ! X =   656.8000,   6084.650,    489.000,    0 !   !END!  GR_M1413
DSC1470 ! X =   656.8500,   6084.650,    489.000,    0 !   !END!  GR_M1414
DSC1471 ! X =   656.9000,   6084.650,    489.000,    0 !   !END!  GR_M1415
DSC1472 ! X =   656.9500,   6084.650,    489.000,    0 !   !END!  GR_M1416
DSC1473 ! X =   657.0000,   6084.650,    489.962,    0 !   !END!  GR_M1417
DSC1474 ! X =   657.0500,   6084.650,    489.000,    0 !   !END!  GR_M1418
DSC1475 ! X =   657.1000,   6084.650,    488.955,    0 !   !END!  GR_M1419
DSC1476 ! X =   657.1500,   6084.650,    488.000,    0 !   !END!  GR_M1420
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DSC1477 ! X =   657.2000,   6084.650,    487.871,    0 !   !END!  GR_M1421
DSC1478 ! X =   657.2500,   6084.650,    486.276,    0 !   !END!  GR_M1422
DSC1479 ! X =   657.3000,   6084.650,    485.535,    0 !   !END!  GR_M1423
DSC1480 ! X =   656.3000,   6084.700,    468.000,    0 !   !END!  GR_M1424
DSC1481 ! X =   656.3500,   6084.700,    468.000,    0 !   !END!  GR_M1425
DSC1482 ! X =   656.4000,   6084.700,    468.000,    0 !   !END!  GR_M1426
DSC1483 ! X =   656.4500,   6084.700,    468.038,    0 !   !END!  GR_M1427
DSC1484 ! X =   656.5000,   6084.700,    470.051,    0 !   !END!  GR_M1428
DSC1485 ! X =   656.5500,   6084.700,    473.734,    0 !   !END!  GR_M1429
DSC1486 ! X =   656.6000,   6084.700,    477.376,    0 !   !END!  GR_M1430
DSC1487 ! X =   656.6500,   6084.700,    481.038,    0 !   !END!  GR_M1431
DSC1488 ! X =   656.7000,   6084.700,    483.706,    0 !   !END!  GR_M1432
DSC1489 ! X =   656.7500,   6084.700,    489.000,    0 !   !END!  GR_M1433
DSC1490 ! X =   656.8000,   6084.700,    489.000,    0 !   !END!  GR_M1434
DSC1491 ! X =   656.8500,   6084.700,    489.000,    0 !   !END!  GR_M1435
DSC1492 ! X =   656.9000,   6084.700,    489.000,    0 !   !END!  GR_M1436
DSC1493 ! X =   656.9500,   6084.700,    489.000,    0 !   !END!  GR_M1437
DSC1494 ! X =   657.0000,   6084.700,    489.000,    0 !   !END!  GR_M1438
DSC1495 ! X =   657.0500,   6084.700,    488.679,    0 !   !END!  GR_M1439
DSC1496 ! X =   657.1000,   6084.700,    488.000,    0 !   !END!  GR_M1440
DSC1497 ! X =   657.1500,   6084.700,    487.931,    0 !   !END!  GR_M1441
DSC1498 ! X =   657.2000,   6084.700,    486.986,    0 !   !END!  GR_M1442
DSC1499 ! X =   657.2500,   6084.700,    485.988,    0 !   !END!  GR_M1443
DSC1500 ! X =   657.3000,   6084.700,    484.325,    0 !   !END!  GR_M1444
DSC1501 ! X =   656.3000,   6084.750,    468.000,    0 !   !END!  GR_M1445
DSC1502 ! X =   656.3500,   6084.750,    468.000,    0 !   !END!  GR_M1446
DSC1503 ! X =   656.4000,   6084.750,    468.000,    0 !   !END!  GR_M1447
DSC1504 ! X =   656.4500,   6084.750,    470.555,    0 !   !END!  GR_M1448
DSC1505 ! X =   656.5000,   6084.750,    472.336,    0 !   !END!  GR_M1449
DSC1506 ! X =   656.5500,   6084.750,    477.003,    0 !   !END!  GR_M1450
DSC1507 ! X =   656.6000,   6084.750,    480.661,    0 !   !END!  GR_M1451
DSC1508 ! X =   656.6500,   6084.750,    483.323,    0 !   !END!  GR_M1452
DSC1509 ! X =   656.7000,   6084.750,    489.000,    0 !   !END!  GR_M1453
DSC1510 ! X =   656.7500,   6084.750,    489.000,    0 !   !END!  GR_M1454
DSC1511 ! X =   656.8000,   6084.750,    489.000,    0 !   !END!  GR_M1455
DSC1512 ! X =   656.8500,   6084.750,    489.000,    0 !   !END!  GR_M1456
DSC1513 ! X =   656.9000,   6084.750,    489.000,    0 !   !END!  GR_M1457
DSC1514 ! X =   656.9500,   6084.750,    489.000,    0 !   !END!  GR_M1458
DSC1515 ! X =   657.0000,   6084.750,    489.000,    0 !   !END!  GR_M1459
DSC1516 ! X =   657.0500,   6084.750,    489.000,    0 !   !END!  GR_M1460
DSC1517 ! X =   657.1000,   6084.750,    487.645,    0 !   !END!  GR_M1461
DSC1518 ! X =   657.1500,   6084.750,    487.000,    0 !   !END!  GR_M1462
DSC1519 ! X =   657.2000,   6084.750,    485.916,    0 !   !END!  GR_M1463
DSC1520 ! X =   657.2500,   6084.750,    484.746,    0 !   !END!  GR_M1464
DSC1521 ! X =   657.3000,   6084.750,    483.947,    0 !   !END!  GR_M1465
DSC1522 ! X =   656.3000,   6084.800,    468.000,    0 !   !END!  GR_M1466
DSC1523 ! X =   656.3500,   6084.800,    468.000,    0 !   !END!  GR_M1467
DSC1524 ! X =   656.4000,   6084.800,    472.186,    0 !   !END!  GR_M1468
DSC1525 ! X =   656.4500,   6084.800,    473.250,    0 !   !END!  GR_M1469
DSC1526 ! X =   656.5000,   6084.800,    475.156,    0 !   !END!  GR_M1470
DSC1527 ! X =   656.5500,   6084.800,    479.611,    0 !   !END!  GR_M1471
DSC1528 ! X =   656.6000,   6084.800,    482.946,    0 !   !END!  GR_M1472
DSC1529 ! X =   656.6500,   6084.800,    489.000,    0 !   !END!  GR_M1473
DSC1530 ! X =   656.7000,   6084.800,    489.000,    0 !   !END!  GR_M1474
DSC1531 ! X =   656.7500,   6084.800,    489.000,    0 !   !END!  GR_M1475
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DSC1532 ! X =   656.8500,   6084.800,    489.000,    0 !   !END!  GR_M1476
DSC1533 ! X =   656.9000,   6084.800,    489.000,    0 !   !END!  GR_M1477
DSC1534 ! X =   656.9500,   6084.800,    489.000,    0 !   !END!  GR_M1478
DSC1535 ! X =   657.0000,   6084.800,    489.000,    0 !   !END!  GR_M1479
DSC1536 ! X =   657.0500,   6084.800,    489.000,    0 !   !END!  GR_M1480
DSC1537 ! X =   657.1000,   6084.800,    486.490,    0 !   !END!  GR_M1481
DSC1538 ! X =   657.1500,   6084.800,    486.000,    0 !   !END!  GR_M1482
DSC1539 ! X =   657.2000,   6084.800,    484.806,    0 !   !END!  GR_M1483
DSC1540 ! X =   657.2500,   6084.800,    483.517,    0 !   !END!  GR_M1484
DSC1541 ! X =   657.3000,   6084.800,    482.794,    0 !   !END!  GR_M1485
DSC1542 ! X =   656.3000,   6084.850,    468.000,    0 !   !END!  GR_M1486
DSC1543 ! X =   656.3500,   6084.850,    471.351,    0 !   !END!  GR_M1487
DSC1544 ! X =   656.4000,   6084.850,    475.307,    0 !   !END!  GR_M1488
DSC1545 ! X =   656.4500,   6084.850,    477.031,    0 !   !END!  GR_M1489
DSC1546 ! X =   656.5000,   6084.850,    479.474,    0 !   !END!  GR_M1490
DSC1547 ! X =   656.5500,   6084.850,    482.573,    0 !   !END!  GR_M1491
DSC1548 ! X =   656.6000,   6084.850,    489.000,    0 !   !END!  GR_M1492
DSC1549 ! X =   656.6500,   6084.850,    489.000,    0 !   !END!  GR_M1493
DSC1550 ! X =   656.7000,   6084.850,    489.000,    0 !   !END!  GR_M1494
DSC1551 ! X =   656.7500,   6084.850,    489.000,    0 !   !END!  GR_M1495
DSC1552 ! X =   656.8000,   6084.850,    489.000,    0 !   !END!  GR_M1496
DSC1553 ! X =   656.8500,   6084.850,    489.000,    0 !   !END!  GR_M1497
DSC1554 ! X =   656.9000,   6084.850,    489.000,    0 !   !END!  GR_M1498
DSC1555 ! X =   656.9500,   6084.850,    489.000,    0 !   !END!  GR_M1499
DSC1556 ! X =   657.0000,   6084.850,    487.000,    0 !   !END!  GR_M1500
DSC1557 ! X =   657.0500,   6084.850,    486.000,    0 !   !END!  GR_M1501
DSC1558 ! X =   657.1000,   6084.850,    485.334,    0 !   !END!  GR_M1502
DSC1559 ! X =   657.1500,   6084.850,    484.451,    0 !   !END!  GR_M1503
DSC1560 ! X =   657.2000,   6084.850,    483.161,    0 !   !END!  GR_M1504
DSC1561 ! X =   657.2500,   6084.850,    482.332,    0 !   !END!  GR_M1505
DSC1562 ! X =   657.3000,   6084.850,    482.456,    0 !   !END!  GR_M1506
DSC1563 ! X =   656.3000,   6084.900,    470.553,    0 !   !END!  GR_M1507
DSC1564 ! X =   656.3500,   6084.900,    474.445,    0 !   !END!  GR_M1508
DSC1565 ! X =   656.4000,   6084.900,    478.738,    0 !   !END!  GR_M1509
DSC1566 ! X =   656.4500,   6084.900,    480.600,    0 !   !END!  GR_M1510
DSC1567 ! X =   656.5000,   6084.900,    482.914,    0 !   !END!  GR_M1511
DSC1568 ! X =   656.5500,   6084.900,    485.646,    0 !   !END!  GR_M1512
DSC1569 ! X =   656.6000,   6084.900,    489.000,    0 !   !END!  GR_M1513
DSC1570 ! X =   656.6500,   6084.900,    489.000,    0 !   !END!  GR_M1514
DSC1571 ! X =   656.7000,   6084.900,    489.000,    0 !   !END!  GR_M1515
DSC1572 ! X =   656.7500,   6084.900,    489.000,    0 !   !END!  GR_M1516
DSC1573 ! X =   656.8000,   6084.900,    489.000,    0 !   !END!  GR_M1517
DSC1574 ! X =   656.8500,   6084.900,    489.000,    0 !   !END!  GR_M1518
DSC1575 ! X =   656.9000,   6084.900,    489.000,    0 !   !END!  GR_M1519
DSC1576 ! X =   656.9500,   6084.900,    487.000,    0 !   !END!  GR_M1520
DSC1577 ! X =   657.0000,   6084.900,    486.030,    0 !   !END!  GR_M1521
DSC1578 ! X =   657.0500,   6084.900,    485.102,    0 !   !END!  GR_M1522
DSC1579 ! X =   657.1000,   6084.900,    484.179,    0 !   !END!  GR_M1523
DSC1580 ! X =   657.1500,   6084.900,    483.240,    0 !   !END!  GR_M1524
DSC1581 ! X =   657.2000,   6084.900,    481.465,    0 !   !END!  GR_M1525
DSC1582 ! X =   657.2500,   6084.900,    481.536,    0 !   !END!  GR_M1526
DSC1583 ! X =   657.3000,   6084.900,    483.000,    0 !   !END!  GR_M1527
DSC1584 ! X =   656.3000,   6084.950,    473.830,    0 !   !END!  GR_M1528
DSC1585 ! X =   656.3500,   6084.950,    477.592,    0 !   !END!  GR_M1529
DSC1586 ! X =   656.4000,   6084.950,    481.178,    0 !   !END!  GR_M1530
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DSC1587 ! X =   656.4500,   6084.950,    483.949,    0 !   !END!  GR_M1531
DSC1588 ! X =   656.5000,   6084.950,    485.878,    0 !   !END!  GR_M1532
DSC1589 ! X =   656.5500,   6084.950,    487.802,    0 !   !END!  GR_M1533
DSC1590 ! X =   656.6000,   6084.950,    489.000,    0 !   !END!  GR_M1534
DSC1591 ! X =   656.6500,   6084.950,    489.000,    0 !   !END!  GR_M1535
DSC1592 ! X =   656.7000,   6084.950,    489.000,    0 !   !END!  GR_M1536
DSC1593 ! X =   656.7500,   6084.950,    489.000,    0 !   !END!  GR_M1537
DSC1594 ! X =   656.8000,   6084.950,    489.000,    0 !   !END!  GR_M1538
DSC1595 ! X =   656.8500,   6084.950,    489.000,    0 !   !END!  GR_M1539
DSC1596 ! X =   656.9000,   6084.950,    488.000,    0 !   !END!  GR_M1540
DSC1597 ! X =   656.9500,   6084.950,    486.760,    0 !   !END!  GR_M1541
DSC1598 ! X =   657.0000,   6084.950,    485.878,    0 !   !END!  GR_M1542
DSC1599 ! X =   657.0500,   6084.950,    484.267,    0 !   !END!  GR_M1543
DSC1600 ! X =   657.1000,   6084.950,    483.558,    0 !   !END!  GR_M1544
DSC1601 ! X =   657.1500,   6084.950,    481.827,    0 !   !END!  GR_M1545
DSC1602 ! X =   657.2000,   6084.950,    480.943,    0 !   !END!  GR_M1546
DSC1603 ! X =   657.2500,   6084.950,    481.917,    0 !   !END!  GR_M1547
DSC1604 ! X =   657.3000,   6084.950,    483.405,    0 !   !END!  GR_M1548
DSC1605 ! X =   656.3000,   6085.000,    477.115,    0 !   !END!  GR_M1549
DSC1606 ! X =   656.3500,   6085.000,    480.773,    0 !   !END!  GR_M1550
DSC1607 ! X =   656.4000,   6085.000,    484.435,    0 !   !END!  GR_M1551
DSC1608 ! X =   656.4500,   6085.000,    487.102,    0 !   !END!  GR_M1552
DSC1609 ! X =   656.5000,   6085.000,    488.034,    0 !   !END!  GR_M1553
DSC1610 ! X =   656.5500,   6085.000,    489.000,    0 !   !END!  GR_M1554
DSC1611 ! X =   656.6000,   6085.000,    489.000,    0 !   !END!  GR_M1555
DSC1612 ! X =   656.6500,   6085.000,    489.000,    0 !   !END!  GR_M1556
DSC1613 ! X =   656.7000,   6085.000,    489.000,    0 !   !END!  GR_M1557
DSC1614 ! X =   656.7500,   6085.000,    489.000,    0 !   !END!  GR_M1558
DSC1615 ! X =   656.8000,   6085.000,    489.000,    0 !   !END!  GR_M1559
DSC1616 ! X =   656.8500,   6085.000,    488.000,    0 !   !END!  GR_M1560
DSC1617 ! X =   656.9000,   6085.000,    483.000,    0 !   !END!  GR_M1561
DSC1618 ! X =   656.9500,   6085.000,    483.000,    0 !   !END!  GR_M1562
DSC1619 ! X =   657.0000,   6085.000,    483.000,    0 !   !END!  GR_M1563
DSC1620 ! X =   657.0500,   6085.000,    483.824,    0 !   !END!  GR_M1564
DSC1621 ! X =   657.1000,   6085.000,    482.359,    0 !   !END!  GR_M1565
DSC1622 ! X =   657.1500,   6085.000,    480.983,    0 !   !END!  GR_M1566
DSC1623 ! X =   657.2000,   6085.000,    481.000,    0 !   !END!  GR_M1567
DSC1624 ! X =   657.2500,   6085.000,    482.000,    0 !   !END!  GR_M1568
DSC1625 ! X =   657.3000,   6085.000,    484.000,    0 !   !END!  GR_M1569
DSC1626 ! X =   656.3000,   6085.050,    478.909,    0 !   !END!  GR_M1570
DSC1627 ! X =   656.3500,   6085.050,    483.058,    0 !   !END!  GR_M1571
DSC1628 ! X =   656.4000,   6085.050,    486.720,    0 !   !END!  GR_M1572
DSC1629 ! X =   656.4500,   6085.050,    488.355,    0 !   !END!  GR_M1573
DSC1630 ! X =   656.5000,   6085.050,    489.000,    0 !   !END!  GR_M1574
DSC1631 ! X =   656.5500,   6085.050,    489.000,    0 !   !END!  GR_M1575
DSC1632 ! X =   656.6000,   6085.050,    489.000,    0 !   !END!  GR_M1576
DSC1633 ! X =   656.6500,   6085.050,    489.000,    0 !   !END!  GR_M1577
DSC1634 ! X =   656.7000,   6085.050,    489.000,    0 !   !END!  GR_M1578
DSC1635 ! X =   656.7500,   6085.050,    489.000,    0 !   !END!  GR_M1579
DSC1636 ! X =   656.8000,   6085.050,    488.000,    0 !   !END!  GR_M1580
DSC1637 ! X =   656.8500,   6085.050,    483.000,    0 !   !END!  GR_M1581
DSC1638 ! X =   656.9000,   6085.050,    483.000,    0 !   !END!  GR_M1582
DSC1639 ! X =   656.9500,   6085.050,    483.000,    0 !   !END!  GR_M1583
DSC1640 ! X =   657.0000,   6085.050,    483.000,    0 !   !END!  GR_M1584
DSC1641 ! X =   657.0500,   6085.050,    483.000,    0 !   !END!  GR_M1585
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DSC1642 ! X =   657.1000,   6085.050,    481.714,    0 !   !END!  GR_M1586
DSC1643 ! X =   657.1500,   6085.050,    480.000,    0 !   !END!  GR_M1587
DSC1644 ! X =   657.2000,   6085.050,    481.000,    0 !   !END!  GR_M1588
DSC1645 ! X =   657.2500,   6085.050,    482.930,    0 !   !END!  GR_M1589
DSC1646 ! X =   657.3000,   6085.050,    484.000,    0 !   !END!  GR_M1590
DSC1647 ! X =   656.3000,   6085.100,    479.718,    0 !   !END!  GR_M1591
DSC1648 ! X =   656.3500,   6085.100,    485.347,    0 !   !END!  GR_M1592
DSC1649 ! X =   656.4000,   6085.100,    488.252,    0 !   !END!  GR_M1593
DSC1650 ! X =   656.4500,   6085.100,    489.000,    0 !   !END!  GR_M1594
DSC1651 ! X =   656.5000,   6085.100,    489.000,    0 !   !END!  GR_M1595
DSC1652 ! X =   656.5500,   6085.100,    489.000,    0 !   !END!  GR_M1596
DSC1653 ! X =   656.6000,   6085.100,    489.000,    0 !   !END!  GR_M1597
DSC1654 ! X =   656.6500,   6085.100,    489.000,    0 !   !END!  GR_M1598
DSC1655 ! X =   656.7000,   6085.100,    489.000,    0 !   !END!  GR_M1599
DSC1656 ! X =   656.7500,   6085.100,    488.000,    0 !   !END!  GR_M1600
DSC1657 ! X =   656.8000,   6085.100,    483.000,    0 !   !END!  GR_M1601
DSC1658 ! X =   656.8500,   6085.100,    483.000,    0 !   !END!  GR_M1602
DSC1659 ! X =   656.9000,   6085.100,    483.000,    0 !   !END!  GR_M1603
DSC1660 ! X =   656.9500,   6085.100,    483.000,    0 !   !END!  GR_M1604
DSC1661 ! X =   657.0000,   6085.100,    483.000,    0 !   !END!  GR_M1605
DSC1662 ! X =   657.0500,   6085.100,    483.000,    0 !   !END!  GR_M1606
DSC1663 ! X =   657.1000,   6085.100,    483.000,    0 !   !END!  GR_M1607
DSC1664 ! X =   657.1500,   6085.100,    479.786,    0 !   !END!  GR_M1608
DSC1665 ! X =   657.2000,   6085.100,    481.000,    0 !   !END!  GR_M1609
DSC1666 ! X =   657.2500,   6085.100,    483.013,    0 !   !END!  GR_M1610
DSC1667 ! X =   656.3000,   6085.150,    482.133,    0 !   !END!  GR_M1611
DSC1668 ! X =   656.3500,   6085.150,    487.632,    0 !   !END!  GR_M1612
DSC1669 ! X =   656.4000,   6085.150,    489.419,    0 !   !END!  GR_M1613
DSC1670 ! X =   656.4500,   6085.150,    490.000,    0 !   !END!  GR_M1614
DSC1671 ! X =   656.5000,   6085.150,    489.000,    0 !   !END!  GR_M1615
DSC1672 ! X =   656.5500,   6085.150,    489.000,    0 !   !END!  GR_M1616
DSC1673 ! X =   656.6000,   6085.150,    489.000,    0 !   !END!  GR_M1617
DSC1674 ! X =   656.6500,   6085.150,    489.000,    0 !   !END!  GR_M1618
DSC1675 ! X =   656.7000,   6085.150,    488.745,    0 !   !END!  GR_M1619
DSC1676 ! X =   656.7500,   6085.150,    483.000,    0 !   !END!  GR_M1620
DSC1677 ! X =   656.8000,   6085.150,    483.000,    0 !   !END!  GR_M1621
DSC1678 ! X =   656.8500,   6085.150,    483.000,    0 !   !END!  GR_M1622
DSC1679 ! X =   656.9000,   6085.150,    483.000,    0 !   !END!  GR_M1623
DSC1680 ! X =   656.9500,   6085.150,    483.000,    0 !   !END!  GR_M1624
DSC1681 ! X =   657.0000,   6085.150,    483.000,    0 !   !END!  GR_M1625
DSC1682 ! X =   657.0500,   6085.150,    483.000,    0 !   !END!  GR_M1626
DSC1683 ! X =   657.1000,   6085.150,    483.000,    0 !   !END!  GR_M1627
DSC1684 ! X =   657.1500,   6085.150,    479.715,    0 !   !END!  GR_M1628
DSC1685 ! X =   657.2000,   6085.150,    481.454,    0 !   !END!  GR_M1629
DSC1686 ! X =   657.2500,   6085.150,    483.489,    0 !   !END!  GR_M1630
DSC1687 ! X =   656.3000,   6085.200,    486.216,    0 !   !END!  GR_M1631
DSC1688 ! X =   656.3500,   6085.200,    489.032,    0 !   !END!  GR_M1632
DSC1689 ! X =   656.4000,   6085.200,    490.000,    0 !   !END!  GR_M1633
DSC1690 ! X =   656.4500,   6085.200,    491.000,    0 !   !END!  GR_M1634
DSC1691 ! X =   656.5000,   6085.200,    491.000,    0 !   !END!  GR_M1635
DSC1692 ! X =   656.5500,   6085.200,    489.000,    0 !   !END!  GR_M1636
DSC1693 ! X =   656.6000,   6085.200,    490.000,    0 !   !END!  GR_M1637
DSC1694 ! X =   656.6500,   6085.200,    489.000,    0 !   !END!  GR_M1638
DSC1695 ! X =   656.7000,   6085.200,    488.000,    0 !   !END!  GR_M1639
DSC1696 ! X =   656.7500,   6085.200,    487.000,    0 !   !END!  GR_M1640
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DSC1697 ! X =   656.8000,   6085.200,    483.000,    0 !   !END!  GR_M1641
DSC1698 ! X =   656.8500,   6085.200,    483.000,    0 !   !END!  GR_M1642
DSC1699 ! X =   656.9000,   6085.200,    483.000,    0 !   !END!  GR_M1643
DSC1700 ! X =   656.9500,   6085.200,    483.000,    0 !   !END!  GR_M1644
DSC1701 ! X =   657.0000,   6085.200,    483.000,    0 !   !END!  GR_M1645
DSC1702 ! X =   657.0500,   6085.200,    483.000,    0 !   !END!  GR_M1646
DSC1703 ! X =   657.1000,   6085.200,    479.000,    0 !   !END!  GR_M1647
DSC1704 ! X =   657.1500,   6085.200,    479.950,    0 !   !END!  GR_M1648
DSC1705 ! X =   657.2000,   6085.200,    481.833,    0 !   !END!  GR_M1649
DSC1706 ! X =   657.2500,   6085.200,    484.169,    0 !   !END!  GR_M1650
DSC1707 ! X =   656.3000,   6085.250,    489.534,    0 !   !END!  GR_M1651
DSC1708 ! X =   656.3500,   6085.250,    491.000,    0 !   !END!  GR_M1652
DSC1709 ! X =   656.4000,   6085.250,    491.000,    0 !   !END!  GR_M1653
DSC1710 ! X =   656.4500,   6085.250,    491.000,    0 !   !END!  GR_M1654
DSC1711 ! X =   656.5000,   6085.250,    490.693,    0 !   !END!  GR_M1655
DSC1712 ! X =   656.5500,   6085.250,    490.000,    0 !   !END!  GR_M1656
DSC1713 ! X =   656.6000,   6085.250,    489.049,    0 !   !END!  GR_M1657
DSC1714 ! X =   656.6500,   6085.250,    488.651,    0 !   !END!  GR_M1658
DSC1715 ! X =   656.7000,   6085.250,    487.830,    0 !   !END!  GR_M1659
DSC1716 ! X =   656.7500,   6085.250,    486.529,    0 !   !END!  GR_M1660
DSC1717 ! X =   656.8000,   6085.250,    485.000,    0 !   !END!  GR_M1661
DSC1718 ! X =   656.8500,   6085.250,    483.000,    0 !   !END!  GR_M1662
DSC1719 ! X =   656.9000,   6085.250,    483.000,    0 !   !END!  GR_M1663
DSC1720 ! X =   656.9500,   6085.250,    483.000,    0 !   !END!  GR_M1664
DSC1721 ! X =   657.0000,   6085.250,    483.000,    0 !   !END!  GR_M1665
DSC1722 ! X =   657.0500,   6085.250,    478.510,    0 !   !END!  GR_M1666
DSC1723 ! X =   657.1000,   6085.250,    479.000,    0 !   !END!  GR_M1667
DSC1724 ! X =   657.1500,   6085.250,    480.813,    0 !   !END!  GR_M1668
DSC1725 ! X =   657.2000,   6085.250,    482.714,    0 !   !END!  GR_M1669
DSC1726 ! X =   657.2500,   6085.250,    484.823,    0 !   !END!  GR_M1670
DSC1727 ! X =   656.3000,   6085.300,    491.146,    0 !   !END!  GR_M1671
DSC1728 ! X =   656.3500,   6085.300,    492.000,    0 !   !END!  GR_M1672
DSC1729 ! X =   656.4000,   6085.300,    491.110,    0 !   !END!  GR_M1673
DSC1730 ! X =   656.4500,   6085.300,    491.000,    0 !   !END!  GR_M1674
DSC1731 ! X =   656.5000,   6085.300,    490.000,    0 !   !END!  GR_M1675
DSC1732 ! X =   656.5500,   6085.300,    489.084,    0 !   !END!  GR_M1676
DSC1733 ! X =   656.6000,   6085.300,    489.000,    0 !   !END!  GR_M1677
DSC1734 ! X =   656.6500,   6085.300,    488.000,    0 !   !END!  GR_M1678
DSC1735 ! X =   656.7000,   6085.300,    486.692,    0 !   !END!  GR_M1679
DSC1736 ! X =   656.7500,   6085.300,    485.332,    0 !   !END!  GR_M1680
DSC1737 ! X =   656.8000,   6085.300,    484.030,    0 !   !END!  GR_M1681
DSC1738 ! X =   656.8500,   6085.300,    482.704,    0 !   !END!  GR_M1682
DSC1739 ! X =   656.9000,   6085.300,    483.000,    0 !   !END!  GR_M1683
DSC1740 ! X =   656.9500,   6085.300,    483.000,    0 !   !END!  GR_M1684
DSC1741 ! X =   657.0000,   6085.300,    478.812,    0 !   !END!  GR_M1685
DSC1742 ! X =   657.0500,   6085.300,    478.000,    0 !   !END!  GR_M1686
DSC1743 ! X =   657.1000,   6085.300,    479.000,    0 !   !END!  GR_M1687
DSC1744 ! X =   657.1500,   6085.300,    481.107,    0 !   !END!  GR_M1688
DSC1745 ! X =   657.2000,   6085.300,    482.986,    0 !   !END!  GR_M1689
DSC1746 ! X =   657.2500,   6085.300,    485.000,    0 !   !END!  GR_M1690
DSC1747 ! X =   656.9000,   6083.700,    468.000,    0 !   !END!  GR_M1691
DSC1748 ! X =   656.9500,   6083.700,    468.000,    0 !   !END!  GR_M1692
DSC1749 ! X =   657.0000,   6083.700,    468.000,    0 !   !END!  GR_M1693
DSC1750 ! X =   657.0500,   6083.700,    468.000,    0 !   !END!  GR_M1694
DSC1751 ! X =   657.1000,   6083.700,    468.000,    0 !   !END!  GR_M1695
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DSC1752 ! X =   657.1500,   6083.700,    468.000,    0 !   !END!  GR_M1696
DSC1753 ! X =   657.2000,   6083.700,    468.000,    0 !   !END!  GR_M1697
DSC1754 ! X =   657.2500,   6083.700,    468.000,    0 !   !END!  GR_M1698
DSC1755 ! X =   657.3000,   6083.700,    468.000,    0 !   !END!  GR_M1699
DSC1756 ! X =   657.3500,   6083.700,    468.000,    0 !   !END!  GR_M1700
DSC1757 ! X =   657.4000,   6083.700,    468.000,    0 !   !END!  GR_M1701
DSC1758 ! X =   657.4500,   6083.700,    472.922,    0 !   !END!  GR_M1702
DSC1759 ! X =   657.5000,   6083.700,    475.579,    0 !   !END!  GR_M1703
DSC1760 ! X =   657.5500,   6083.700,    478.242,    0 !   !END!  GR_M1704
DSC1761 ! X =   657.6000,   6083.700,    480.904,    0 !   !END!  GR_M1705
DSC1762 ! X =   657.6500,   6083.700,    483.566,    0 !   !END!  GR_M1706
DSC1763 ! X =   657.7000,   6083.700,    486.224,    0 !   !END!  GR_M1707
DSC1764 ! X =   657.7500,   6083.700,    487.886,    0 !   !END!  GR_M1708
DSC1765 ! X =   657.8000,   6083.700,    489.574,    0 !   !END!  GR_M1709
DSC1766 ! X =   657.8500,   6083.700,    492.952,    0 !   !END!  GR_M1710
DSC1767 ! X =   657.9000,   6083.700,    495.869,    0 !   !END!  GR_M1711
DSC1768 ! X =   656.9000,   6083.750,    468.000,    0 !   !END!  GR_M1712
DSC1769 ! X =   656.9500,   6083.750,    468.000,    0 !   !END!  GR_M1713
DSC1770 ! X =   657.0000,   6083.750,    468.000,    0 !   !END!  GR_M1714
DSC1771 ! X =   657.0500,   6083.750,    468.000,    0 !   !END!  GR_M1715
DSC1772 ! X =   657.1000,   6083.750,    468.000,    0 !   !END!  GR_M1716
DSC1773 ! X =   657.1500,   6083.750,    468.000,    0 !   !END!  GR_M1717
DSC1774 ! X =   657.2000,   6083.750,    468.000,    0 !   !END!  GR_M1718
DSC1775 ! X =   657.2500,   6083.750,    468.000,    0 !   !END!  GR_M1719
DSC1776 ! X =   657.3000,   6083.750,    468.000,    0 !   !END!  GR_M1720
DSC1777 ! X =   657.3500,   6083.750,    468.000,    0 !   !END!  GR_M1721
DSC1778 ! X =   657.4000,   6083.750,    472.358,    0 !   !END!  GR_M1722
DSC1779 ! X =   657.4500,   6083.750,    475.206,    0 !   !END!  GR_M1723
DSC1780 ! X =   657.5000,   6083.750,    477.869,    0 !   !END!  GR_M1724
DSC1781 ! X =   657.5500,   6083.750,    480.526,    0 !   !END!  GR_M1725
DSC1782 ! X =   657.6000,   6083.750,    483.194,    0 !   !END!  GR_M1726
DSC1783 ! X =   657.6500,   6083.750,    485.851,    0 !   !END!  GR_M1727
DSC1784 ! X =   657.7000,   6083.750,    488.057,    0 !   !END!  GR_M1728
DSC1785 ! X =   657.7500,   6083.750,    489.924,    0 !   !END!  GR_M1729
DSC1786 ! X =   657.8000,   6083.750,    492.205,    0 !   !END!  GR_M1730
DSC1787 ! X =   657.8500,   6083.750,    495.496,    0 !   !END!  GR_M1731
DSC1788 ! X =   657.9000,   6083.750,    499.057,    0 !   !END!  GR_M1732
DSC1789 ! X =   656.9000,   6083.800,    468.000,    0 !   !END!  GR_M1733
DSC1790 ! X =   656.9500,   6083.800,    468.000,    0 !   !END!  GR_M1734
DSC1791 ! X =   657.0000,   6083.800,    468.000,    0 !   !END!  GR_M1735
DSC1792 ! X =   657.0500,   6083.800,    468.000,    0 !   !END!  GR_M1736
DSC1793 ! X =   657.1000,   6083.800,    468.000,    0 !   !END!  GR_M1737
DSC1794 ! X =   657.1500,   6083.800,    468.000,    0 !   !END!  GR_M1738
DSC1795 ! X =   657.2000,   6083.800,    468.000,    0 !   !END!  GR_M1739
DSC1796 ! X =   657.2500,   6083.800,    468.000,    0 !   !END!  GR_M1740
DSC1797 ! X =   657.3000,   6083.800,    468.386,    0 !   !END!  GR_M1741
DSC1798 ! X =   657.3500,   6083.800,    473.042,    0 !   !END!  GR_M1742
DSC1799 ! X =   657.4000,   6083.800,    474.955,    0 !   !END!  GR_M1743
DSC1800 ! X =   657.4500,   6083.800,    476.956,    0 !   !END!  GR_M1744
DSC1801 ! X =   657.5000,   6083.800,    479.811,    0 !   !END!  GR_M1745
DSC1802 ! X =   657.5500,   6083.800,    482.734,    0 !   !END!  GR_M1746
DSC1803 ! X =   657.6000,   6083.800,    485.478,    0 !   !END!  GR_M1747
DSC1804 ! X =   657.6500,   6083.800,    487.816,    0 !   !END!  GR_M1748
DSC1805 ! X =   657.7000,   6083.800,    489.651,    0 !   !END!  GR_M1749
DSC1806 ! X =   657.7500,   6083.800,    491.461,    0 !   !END!  GR_M1750
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DSC1807 ! X =   657.8000,   6083.800,    494.118,    0 !   !END!  GR_M1751
DSC1808 ! X =   657.8500,   6083.800,    498.288,    0 !   !END!  GR_M1752
DSC1809 ! X =   657.9000,   6083.800,    501.394,    0 !   !END!  GR_M1753
DSC1810 ! X =   656.9000,   6083.850,    468.000,    0 !   !END!  GR_M1754
DSC1811 ! X =   656.9500,   6083.850,    468.000,    0 !   !END!  GR_M1755
DSC1812 ! X =   657.0000,   6083.850,    468.000,    0 !   !END!  GR_M1756
DSC1813 ! X =   657.0500,   6083.850,    468.000,    0 !   !END!  GR_M1757
DSC1814 ! X =   657.1000,   6083.850,    468.000,    0 !   !END!  GR_M1758
DSC1815 ! X =   657.1500,   6083.850,    468.000,    0 !   !END!  GR_M1759
DSC1816 ! X =   657.2000,   6083.850,    468.000,    0 !   !END!  GR_M1760
DSC1817 ! X =   657.2500,   6083.850,    468.964,    0 !   !END!  GR_M1761
DSC1818 ! X =   657.3000,   6083.850,    473.410,    0 !   !END!  GR_M1762
DSC1819 ! X =   657.3500,   6083.850,    475.597,    0 !   !END!  GR_M1763
DSC1820 ! X =   657.4000,   6083.850,    477.115,    0 !   !END!  GR_M1764
DSC1821 ! X =   657.4500,   6083.850,    479.043,    0 !   !END!  GR_M1765
DSC1822 ! X =   657.5000,   6083.850,    481.438,    0 !   !END!  GR_M1766
DSC1823 ! X =   657.5500,   6083.850,    484.101,    0 !   !END!  GR_M1767
DSC1824 ! X =   657.6000,   6083.850,    486.769,    0 !   !END!  GR_M1768
DSC1825 ! X =   657.6500,   6083.850,    489.507,    0 !   !END!  GR_M1769
DSC1826 ! X =   657.7000,   6083.850,    491.083,    0 !   !END!  GR_M1770
DSC1827 ! X =   657.7500,   6083.850,    492.746,    0 !   !END!  GR_M1771
DSC1828 ! X =   657.8000,   6083.850,    495.898,    0 !   !END!  GR_M1772
DSC1829 ! X =   657.8500,   6083.850,    500.070,    0 !   !END!  GR_M1773
DSC1830 ! X =   657.9000,   6083.850,    503.000,    0 !   !END!  GR_M1774
DSC1831 ! X =   656.9000,   6083.900,    468.000,    0 !   !END!  GR_M1775
DSC1832 ! X =   656.9500,   6083.900,    468.000,    0 !   !END!  GR_M1776
DSC1833 ! X =   657.0000,   6083.900,    468.000,    0 !   !END!  GR_M1777
DSC1834 ! X =   657.0500,   6083.900,    468.000,    0 !   !END!  GR_M1778
DSC1835 ! X =   657.1000,   6083.900,    468.000,    0 !   !END!  GR_M1779
DSC1836 ! X =   657.1500,   6083.900,    468.000,    0 !   !END!  GR_M1780
DSC1837 ! X =   657.2000,   6083.900,    469.326,    0 !   !END!  GR_M1781
DSC1838 ! X =   657.2500,   6083.900,    473.416,    0 !   !END!  GR_M1782
DSC1839 ! X =   657.3000,   6083.900,    476.078,    0 !   !END!  GR_M1783
DSC1840 ! X =   657.3500,   6083.900,    478.137,    0 !   !END!  GR_M1784
DSC1841 ! X =   657.4000,   6083.900,    479.403,    0 !   !END!  GR_M1785
DSC1842 ! X =   657.4500,   6083.900,    481.198,    0 !   !END!  GR_M1786
DSC1843 ! X =   657.5000,   6083.900,    483.654,    0 !   !END!  GR_M1787
DSC1844 ! X =   657.5500,   6083.900,    486.045,    0 !   !END!  GR_M1788
DSC1845 ! X =   657.6000,   6083.900,    488.077,    0 !   !END!  GR_M1789
DSC1846 ! X =   657.6500,   6083.900,    490.730,    0 !   !END!  GR_M1790
DSC1847 ! X =   657.7000,   6083.900,    492.454,    0 !   !END!  GR_M1791
DSC1848 ! X =   657.7500,   6083.900,    494.214,    0 !   !END!  GR_M1792
DSC1849 ! X =   657.8000,   6083.900,    497.027,    0 !   !END!  GR_M1793
DSC1850 ! X =   657.8500,   6083.900,    500.762,    0 !   !END!  GR_M1794
DSC1851 ! X =   657.9000,   6083.900,    502.483,    0 !   !END!  GR_M1795
DSC1852 ! X =   656.9000,   6083.950,    468.000,    0 !   !END!  GR_M1796
DSC1853 ! X =   656.9500,   6083.950,    468.000,    0 !   !END!  GR_M1797
DSC1854 ! X =   657.0000,   6083.950,    468.000,    0 !   !END!  GR_M1798
DSC1855 ! X =   657.0500,   6083.950,    468.000,    0 !   !END!  GR_M1799
DSC1856 ! X =   657.1000,   6083.950,    468.000,    0 !   !END!  GR_M1800
DSC1857 ! X =   657.1500,   6083.950,    468.927,    0 !   !END!  GR_M1801
DSC1858 ! X =   657.2000,   6083.950,    472.728,    0 !   !END!  GR_M1802
DSC1859 ! X =   657.2500,   6083.950,    475.701,    0 !   !END!  GR_M1803
DSC1860 ! X =   657.3000,   6083.950,    478.368,    0 !   !END!  GR_M1804
DSC1861 ! X =   657.3500,   6083.950,    480.026,    0 !   !END!  GR_M1805
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DSC1862 ! X =   657.4000,   6083.950,    481.688,    0 !   !END!  GR_M1806
DSC1863 ! X =   657.4500,   6083.950,    483.354,    0 !   !END!  GR_M1807
DSC1864 ! X =   657.5000,   6083.950,    485.277,    0 !   !END!  GR_M1808
DSC1865 ! X =   657.5500,   6083.950,    487.576,    0 !   !END!  GR_M1809
DSC1866 ! X =   657.6000,   6083.950,    490.026,    0 !   !END!  GR_M1810
DSC1867 ! X =   657.6500,   6083.950,    491.951,    0 !   !END!  GR_M1811
DSC1868 ! X =   657.7000,   6083.950,    493.666,    0 !   !END!  GR_M1812
DSC1869 ! X =   657.7500,   6083.950,    495.379,    0 !   !END!  GR_M1813
DSC1870 ! X =   657.8000,   6083.950,    497.157,    0 !   !END!  GR_M1814
DSC1871 ! X =   657.8500,   6083.950,    499.923,    0 !   !END!  GR_M1815
DSC1872 ! X =   657.9000,   6083.950,    502.000,    0 !   !END!  GR_M1816
DSC1873 ! X =   656.9000,   6084.000,    468.000,    0 !   !END!  GR_M1817
DSC1874 ! X =   656.9500,   6084.000,    468.000,    0 !   !END!  GR_M1818
DSC1875 ! X =   657.0000,   6084.000,    468.000,    0 !   !END!  GR_M1819
DSC1876 ! X =   657.0500,   6084.000,    468.000,    0 !   !END!  GR_M1820
DSC1877 ! X =   657.1000,   6084.000,    468.095,    0 !   !END!  GR_M1821
DSC1878 ! X =   657.1500,   6084.000,    472.666,    0 !   !END!  GR_M1822
DSC1879 ! X =   657.2000,   6084.000,    474.883,    0 !   !END!  GR_M1823
DSC1880 ! X =   657.2500,   6084.000,    477.145,    0 !   !END!  GR_M1824
DSC1881 ! X =   657.3000,   6084.000,    479.734,    0 !   !END!  GR_M1825
DSC1882 ! X =   657.3500,   6084.000,    481.883,    0 !   !END!  GR_M1826
DSC1883 ! X =   657.4000,   6084.000,    483.745,    0 !   !END!  GR_M1827
DSC1884 ! X =   657.4500,   6084.000,    485.504,    0 !   !END!  GR_M1828
DSC1885 ! X =   657.5000,   6084.000,    486.924,    0 !   !END!  GR_M1829
DSC1886 ! X =   657.5500,   6084.000,    488.745,    0 !   !END!  GR_M1830
DSC1887 ! X =   657.6000,   6084.000,    490.523,    0 !   !END!  GR_M1831
DSC1888 ! X =   657.6500,   6084.000,    493.000,    0 !   !END!  GR_M1832
DSC1889 ! X =   657.7000,   6084.000,    494.105,    0 !   !END!  GR_M1833
DSC1890 ! X =   657.7500,   6084.000,    496.000,    0 !   !END!  GR_M1834
DSC1891 ! X =   657.8000,   6084.000,    497.983,    0 !   !END!  GR_M1835
DSC1892 ! X =   657.8500,   6084.000,    500.000,    0 !   !END!  GR_M1836
DSC1893 ! X =   657.9000,   6084.000,    501.132,    0 !   !END!  GR_M1837
DSC1894 ! X =   656.9000,   6084.050,    468.000,    0 !   !END!  GR_M1838
DSC1895 ! X =   656.9500,   6084.050,    468.000,    0 !   !END!  GR_M1839
DSC1896 ! X =   657.0000,   6084.050,    468.000,    0 !   !END!  GR_M1840
DSC1897 ! X =   657.0500,   6084.050,    468.887,    0 !   !END!  GR_M1841
DSC1898 ! X =   657.1000,   6084.050,    473.288,    0 !   !END!  GR_M1842
DSC1899 ! X =   657.1500,   6084.050,    474.974,    0 !   !END!  GR_M1843
DSC1900 ! X =   657.2000,   6084.050,    476.613,    0 !   !END!  GR_M1844
DSC1901 ! X =   657.2500,   6084.050,    479.275,    0 !   !END!  GR_M1845
DSC1902 ! X =   657.3000,   6084.050,    481.895,    0 !   !END!  GR_M1846
DSC1903 ! X =   657.3500,   6084.050,    483.640,    0 !   !END!  GR_M1847
DSC1904 ! X =   657.4000,   6084.050,    485.736,    0 !   !END!  GR_M1848
DSC1905 ! X =   657.4500,   6084.050,    486.748,    0 !   !END!  GR_M1849
DSC1906 ! X =   657.5000,   6084.050,    488.000,    0 !   !END!  GR_M1850
DSC1907 ! X =   657.5500,   6084.050,    489.870,    0 !   !END!  GR_M1851
DSC1908 ! X =   657.6000,   6084.050,    491.702,    0 !   !END!  GR_M1852
DSC1909 ! X =   657.6500,   6084.050,    493.208,    0 !   !END!  GR_M1853
DSC1910 ! X =   657.7000,   6084.050,    495.000,    0 !   !END!  GR_M1854
DSC1911 ! X =   657.7500,   6084.050,    496.682,    0 !   !END!  GR_M1855
DSC1912 ! X =   657.8000,   6084.050,    498.000,    0 !   !END!  GR_M1856
DSC1913 ! X =   657.8500,   6084.050,    499.147,    0 !   !END!  GR_M1857
DSC1914 ! X =   657.9000,   6084.050,    500.896,    0 !   !END!  GR_M1858
DSC1915 ! X =   656.9000,   6084.100,    468.000,    0 !   !END!  GR_M1859
DSC1916 ! X =   656.9500,   6084.100,    468.000,    0 !   !END!  GR_M1860
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DSC1917 ! X =   657.0000,   6084.100,    469.126,    0 !   !END!  GR_M1861
DSC1918 ! X =   657.0500,   6084.100,    474.334,    0 !   !END!  GR_M1862
DSC1919 ! X =   657.1000,   6084.100,    476.421,    0 !   !END!  GR_M1863
DSC1920 ! X =   657.1500,   6084.100,    477.270,    0 !   !END!  GR_M1864
DSC1921 ! X =   657.2000,   6084.100,    478.761,    0 !   !END!  GR_M1865
DSC1922 ! X =   657.2500,   6084.100,    481.052,    0 !   !END!  GR_M1866
DSC1923 ! X =   657.3000,   6084.100,    483.215,    0 !   !END!  GR_M1867
DSC1924 ! X =   657.3500,   6084.100,    484.997,    0 !   !END!  GR_M1868
DSC1925 ! X =   657.4000,   6084.100,    486.963,    0 !   !END!  GR_M1869
DSC1926 ! X =   657.4500,   6084.100,    488.000,    0 !   !END!  GR_M1870
DSC1927 ! X =   657.5000,   6084.100,    489.096,    0 !   !END!  GR_M1871
DSC1928 ! X =   657.5500,   6084.100,    490.575,    0 !   !END!  GR_M1872
DSC1929 ! X =   657.6000,   6084.100,    492.000,    0 !   !END!  GR_M1873
DSC1930 ! X =   657.6500,   6084.100,    493.342,    0 !   !END!  GR_M1874
DSC1931 ! X =   657.7000,   6084.100,    495.000,    0 !   !END!  GR_M1875
DSC1932 ! X =   657.7500,   6084.100,    496.000,    0 !   !END!  GR_M1876
DSC1933 ! X =   657.8000,   6084.100,    497.393,    0 !   !END!  GR_M1877
DSC1934 ! X =   657.8500,   6084.100,    498.790,    0 !   !END!  GR_M1878
DSC1935 ! X =   657.9000,   6084.100,    499.867,    0 !   !END!  GR_M1879
DSC1936 ! X =   656.9000,   6084.150,    468.000,    0 !   !END!  GR_M1880
DSC1937 ! X =   656.9500,   6084.150,    468.330,    0 !   !END!  GR_M1881
DSC1938 ! X =   657.0000,   6084.150,    474.115,    0 !   !END!  GR_M1882
DSC1939 ! X =   657.0500,   6084.150,    477.774,    0 !   !END!  GR_M1883
DSC1940 ! X =   657.1000,   6084.150,    480.176,    0 !   !END!  GR_M1884
DSC1941 ! X =   657.1500,   6084.150,    479.809,    0 !   !END!  GR_M1885
DSC1942 ! X =   657.2000,   6084.150,    480.292,    0 !   !END!  GR_M1886
DSC1943 ! X =   657.2500,   6084.150,    482.689,    0 !   !END!  GR_M1887
DSC1944 ! X =   657.3000,   6084.150,    485.061,    0 !   !END!  GR_M1888
DSC1945 ! X =   657.3500,   6084.150,    487.000,    0 !   !END!  GR_M1889
DSC1946 ! X =   657.4000,   6084.150,    488.000,    0 !   !END!  GR_M1890
DSC1947 ! X =   657.4500,   6084.150,    488.986,    0 !   !END!  GR_M1891
DSC1948 ! X =   657.5000,   6084.150,    489.921,    0 !   !END!  GR_M1892
DSC1949 ! X =   657.5500,   6084.150,    491.000,    0 !   !END!  GR_M1893
DSC1950 ! X =   657.6000,   6084.150,    492.000,    0 !   !END!  GR_M1894
DSC1951 ! X =   657.6500,   6084.150,    493.000,    0 !   !END!  GR_M1895
DSC1952 ! X =   657.7000,   6084.150,    494.085,    0 !   !END!  GR_M1896
DSC1953 ! X =   657.7500,   6084.150,    495.455,    0 !   !END!  GR_M1897
DSC1954 ! X =   657.8000,   6084.150,    496.382,    0 !   !END!  GR_M1898
DSC1955 ! X =   657.8500,   6084.150,    497.635,    0 !   !END!  GR_M1899
DSC1956 ! X =   657.9000,   6084.150,    498.712,    0 !   !END!  GR_M1900
DSC1957 ! X =   656.9000,   6084.200,    468.000,    0 !   !END!  GR_M1901
DSC1958 ! X =   656.9500,   6084.200,    473.407,    0 !   !END!  GR_M1902
DSC1959 ! X =   657.0000,   6084.200,    478.629,    0 !   !END!  GR_M1903
DSC1960 ! X =   657.0500,   6084.200,    482.214,    0 !   !END!  GR_M1904
DSC1961 ! X =   657.1000,   6084.200,    483.976,    0 !   !END!  GR_M1905
DSC1962 ! X =   657.1500,   6084.200,    482.479,    0 !   !END!  GR_M1906
DSC1963 ! X =   657.2000,   6084.200,    481.984,    0 !   !END!  GR_M1907
DSC1964 ! X =   657.2500,   6084.200,    484.130,    0 !   !END!  GR_M1908
DSC1965 ! X =   657.3000,   6084.200,    486.155,    0 !   !END!  GR_M1909
DSC1966 ! X =   657.3500,   6084.200,    487.409,    0 !   !END!  GR_M1910
DSC1967 ! X =   657.4500,   6084.200,    489.000,    0 !   !END!  GR_M1911
DSC1968 ! X =   657.5000,   6084.200,    489.971,    0 !   !END!  GR_M1912
DSC1969 ! X =   657.5500,   6084.200,    490.149,    0 !   !END!  GR_M1913
DSC1970 ! X =   657.6000,   6084.200,    491.087,    0 !   !END!  GR_M1914
DSC1971 ! X =   657.6500,   6084.200,    492.107,    0 !   !END!  GR_M1915
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DSC1972 ! X =   657.7000,   6084.200,    493.087,    0 !   !END!  GR_M1916
DSC1973 ! X =   657.7500,   6084.200,    494.326,    0 !   !END!  GR_M1917
DSC1974 ! X =   657.8000,   6084.200,    495.328,    0 !   !END!  GR_M1918
DSC1975 ! X =   657.8500,   6084.200,    496.480,    0 !   !END!  GR_M1919
DSC1976 ! X =   657.9000,   6084.200,    497.160,    0 !   !END!  GR_M1920
DSC1977 ! X =   656.9000,   6084.250,    472.857,    0 !   !END!  GR_M1921
DSC1978 ! X =   656.9500,   6084.250,    477.478,    0 !   !END!  GR_M1922
DSC1979 ! X =   657.0000,   6084.250,    482.070,    0 !   !END!  GR_M1923
DSC1980 ! X =   657.0500,   6084.250,    485.872,    0 !   !END!  GR_M1924
DSC1981 ! X =   657.1000,   6084.250,    486.808,    0 !   !END!  GR_M1925
DSC1982 ! X =   657.1500,   6084.250,    485.368,    0 !   !END!  GR_M1926
DSC1983 ! X =   657.2000,   6084.250,    483.692,    0 !   !END!  GR_M1927
DSC1984 ! X =   657.2500,   6084.250,    485.487,    0 !   !END!  GR_M1928
DSC1985 ! X =   657.3000,   6084.250,    487.000,    0 !   !END!  GR_M1929
DSC1986 ! X =   657.3500,   6084.250,    488.000,    0 !   !END!  GR_M1930
DSC1987 ! X =   657.4000,   6084.250,    489.000,    0 !   !END!  GR_M1931
DSC1988 ! X =   657.4500,   6084.250,    489.000,    0 !   !END!  GR_M1932
DSC1989 ! X =   657.5000,   6084.250,    489.000,    0 !   !END!  GR_M1933
DSC1990 ! X =   657.5500,   6084.250,    489.224,    0 !   !END!  GR_M1934
DSC1991 ! X =   657.6000,   6084.250,    489.946,    0 !   !END!  GR_M1935
DSC1992 ! X =   657.6500,   6084.250,    490.742,    0 !   !END!  GR_M1936
DSC1993 ! X =   657.7000,   6084.250,    492.047,    0 !   !END!  GR_M1937
DSC1994 ! X =   657.7500,   6084.250,    493.037,    0 !   !END!  GR_M1938
DSC1995 ! X =   657.8000,   6084.250,    494.234,    0 !   !END!  GR_M1939
DSC1996 ! X =   657.8500,   6084.250,    495.222,    0 !   !END!  GR_M1940
DSC1997 ! X =   657.9000,   6084.250,    496.402,    0 !   !END!  GR_M1941
DSC1998 ! X =   657.3500,   6084.300,    488.000,    0 !   !END!  GR_M1942
DSC1999 ! X =   657.4000,   6084.300,    488.000,    0 !   !END!  GR_M1943
DSC2000 ! X =   657.4500,   6084.300,    488.000,    0 !   !END!  GR_M1944
DSC2001 ! X =   657.5000,   6084.300,    488.000,    0 !   !END!  GR_M1945
DSC2002 ! X =   657.5500,   6084.300,    488.000,    0 !   !END!  GR_M1946
DSC2003 ! X =   657.6000,   6084.300,    488.100,    0 !   !END!  GR_M1947
DSC2004 ! X =   657.6500,   6084.300,    488.982,    0 !   !END!  GR_M1948
DSC2005 ! X =   657.7000,   6084.300,    490.566,    0 !   !END!  GR_M1949
DSC2006 ! X =   657.7500,   6084.300,    492.007,    0 !   !END!  GR_M1950
DSC2007 ! X =   657.8000,   6084.300,    493.164,    0 !   !END!  GR_M1951
DSC2008 ! X =   657.8500,   6084.300,    494.845,    0 !   !END!  GR_M1952
DSC2009 ! X =   657.9000,   6084.300,    496.000,    0 !   !END!  GR_M1953
DSC2010 ! X =   657.3500,   6084.350,    488.000,    0 !   !END!  GR_M1954
DSC2011 ! X =   657.4000,   6084.350,    488.000,    0 !   !END!  GR_M1955
DSC2012 ! X =   657.4500,   6084.350,    487.410,    0 !   !END!  GR_M1956
DSC2013 ! X =   657.5000,   6084.350,    487.486,    0 !   !END!  GR_M1957
DSC2014 ! X =   657.5500,   6084.350,    487.269,    0 !   !END!  GR_M1958
DSC2015 ! X =   657.6000,   6084.350,    487.000,    0 !   !END!  GR_M1959
DSC2016 ! X =   657.6500,   6084.350,    487.999,    0 !   !END!  GR_M1960
DSC2017 ! X =   657.7000,   6084.350,    489.579,    0 !   !END!  GR_M1961
DSC2018 ! X =   657.7500,   6084.350,    491.000,    0 !   !END!  GR_M1962
DSC2019 ! X =   657.8000,   6084.350,    493.000,    0 !   !END!  GR_M1963
DSC2020 ! X =   657.8500,   6084.350,    494.947,    0 !   !END!  GR_M1964
DSC2021 ! X =   657.9000,   6084.350,    496.619,    0 !   !END!  GR_M1965
DSC2022 ! X =   657.3500,   6084.400,    488.000,    0 !   !END!  GR_M1966
DSC2023 ! X =   657.4000,   6084.400,    488.000,    0 !   !END!  GR_M1967
DSC2024 ! X =   657.4500,   6084.400,    487.000,    0 !   !END!  GR_M1968
DSC2025 ! X =   657.5000,   6084.400,    487.000,    0 !   !END!  GR_M1969
DSC2026 ! X =   657.5500,   6084.400,    486.614,    0 !   !END!  GR_M1970
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DSC2027 ! X =   657.6000,   6084.400,    486.683,    0 !   !END!  GR_M1971
DSC2028 ! X =   657.6500,   6084.400,    487.072,    0 !   !END!  GR_M1972
DSC2029 ! X =   657.7000,   6084.400,    488.864,    0 !   !END!  GR_M1973
DSC2030 ! X =   657.7500,   6084.400,    491.000,    0 !   !END!  GR_M1974
DSC2031 ! X =   657.8000,   6084.400,    493.338,    0 !   !END!  GR_M1975
DSC2032 ! X =   657.8500,   6084.400,    495.077,    0 !   !END!  GR_M1976
DSC2033 ! X =   657.9000,   6084.400,    497.000,    0 !   !END!  GR_M1977
DSC2034 ! X =   657.3500,   6084.450,    487.959,    0 !   !END!  GR_M1978
DSC2035 ! X =   657.4000,   6084.450,    487.000,    0 !   !END!  GR_M1979
DSC2036 ! X =   657.4500,   6084.450,    486.723,    0 !   !END!  GR_M1980
DSC2037 ! X =   657.5000,   6084.450,    486.000,    0 !   !END!  GR_M1981
DSC2038 ! X =   657.5500,   6084.450,    486.000,    0 !   !END!  GR_M1982
DSC2039 ! X =   657.6000,   6084.450,    486.000,    0 !   !END!  GR_M1983
DSC2040 ! X =   657.6500,   6084.450,    487.000,    0 !   !END!  GR_M1984
DSC2041 ! X =   657.7000,   6084.450,    488.998,    0 !   !END!  GR_M1985
DSC2042 ! X =   657.7500,   6084.450,    491.733,    0 !   !END!  GR_M1986
DSC2043 ! X =   657.8000,   6084.450,    494.000,    0 !   !END!  GR_M1987
DSC2044 ! X =   657.8500,   6084.450,    496.000,    0 !   !END!  GR_M1988
DSC2045 ! X =   657.9000,   6084.450,    497.946,    0 !   !END!  GR_M1989
DSC2046 ! X =   657.3500,   6084.500,    487.000,    0 !   !END!  GR_M1990
DSC2047 ! X =   657.4000,   6084.500,    486.260,    0 !   !END!  GR_M1991
DSC2048 ! X =   657.4500,   6084.500,    485.975,    0 !   !END!  GR_M1992
DSC2049 ! X =   657.5000,   6084.500,    486.000,    0 !   !END!  GR_M1993
DSC2050 ! X =   657.5500,   6084.500,    486.000,    0 !   !END!  GR_M1994
DSC2051 ! X =   657.6000,   6084.500,    486.000,    0 !   !END!  GR_M1995
DSC2052 ! X =   657.6500,   6084.500,    487.000,    0 !   !END!  GR_M1996
DSC2053 ! X =   657.7000,   6084.500,    489.128,    0 !   !END!  GR_M1997
DSC2054 ! X =   657.7500,   6084.500,    492.467,    0 !   !END!  GR_M1998
DSC2055 ! X =   657.8000,   6084.500,    494.810,    0 !   !END!  GR_M1999
DSC2056 ! X =   657.8500,   6084.500,    496.638,    0 !   !END!  GR_M2000
DSC2057 ! X =   657.9000,   6084.500,    498.421,    0 !   !END!  GR_M2001
DSC2058 ! X =   657.3500,   6084.550,    486.578,    0 !   !END!  GR_M2002
DSC2059 ! X =   657.4000,   6084.550,    485.764,    0 !   !END!  GR_M2003
DSC2060 ! X =   657.4500,   6084.550,    485.000,    0 !   !END!  GR_M2004
DSC2061 ! X =   657.5000,   6084.550,    485.000,    0 !   !END!  GR_M2005
DSC2062 ! X =   657.5500,   6084.550,    486.000,    0 !   !END!  GR_M2006
DSC2063 ! X =   657.6000,   6084.550,    486.000,    0 !   !END!  GR_M2007
DSC2064 ! X =   657.6500,   6084.550,    487.000,    0 !   !END!  GR_M2008
DSC2065 ! X =   657.7000,   6084.550,    490.090,    0 !   !END!  GR_M2009
DSC2066 ! X =   657.7500,   6084.550,    493.752,    0 !   !END!  GR_M2010
DSC2067 ! X =   657.8000,   6084.550,    496.414,    0 !   !END!  GR_M2011
DSC2068 ! X =   657.8500,   6084.550,    497.789,    0 !   !END!  GR_M2012
DSC2069 ! X =   657.9000,   6084.550,    499.111,    0 !   !END!  GR_M2013
DSC2070 ! X =   657.3500,   6084.600,    485.485,    0 !   !END!  GR_M2014
DSC2071 ! X =   657.4000,   6084.600,    485.000,    0 !   !END!  GR_M2015
DSC2072 ! X =   657.4500,   6084.600,    484.892,    0 !   !END!  GR_M2016
DSC2073 ! X =   657.5000,   6084.600,    485.127,    0 !   !END!  GR_M2017
DSC2074 ! X =   657.5500,   6084.600,    486.000,    0 !   !END!  GR_M2018
DSC2075 ! X =   657.6000,   6084.600,    486.136,    0 !   !END!  GR_M2019
DSC2076 ! X =   657.6500,   6084.600,    487.673,    0 !   !END!  GR_M2020
DSC2077 ! X =   657.7000,   6084.600,    491.379,    0 !   !END!  GR_M2021
DSC2078 ! X =   657.7500,   6084.600,    495.037,    0 !   !END!  GR_M2022
DSC2079 ! X =   657.8000,   6084.600,    497.722,    0 !   !END!  GR_M2023
DSC2080 ! X =   657.8500,   6084.600,    498.904,    0 !   !END!  GR_M2024
DSC2081 ! X =   657.9000,   6084.600,    500.232,    0 !   !END!  GR_M2025
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DSC2082 ! X =   657.3500,   6084.650,    484.761,    0 !   !END!  GR_M2026
DSC2083 ! X =   657.4000,   6084.650,    484.000,    0 !   !END!  GR_M2027
DSC2084 ! X =   657.4500,   6084.650,    484.920,    0 !   !END!  GR_M2028
DSC2085 ! X =   657.5000,   6084.650,    486.000,    0 !   !END!  GR_M2029
DSC2086 ! X =   657.5500,   6084.650,    486.368,    0 !   !END!  GR_M2030
DSC2087 ! X =   657.6000,   6084.650,    487.291,    0 !   !END!  GR_M2031
DSC2088 ! X =   657.6500,   6084.650,    488.997,    0 !   !END!  GR_M2032
DSC2089 ! X =   657.7000,   6084.650,    492.664,    0 !   !END!  GR_M2033
DSC2090 ! X =   657.7500,   6084.650,    497.261,    0 !   !END!  GR_M2034
DSC2091 ! X =   657.8000,   6084.650,    499.984,    0 !   !END!  GR_M2035
DSC2092 ! X =   657.8500,   6084.650,    500.912,    0 !   !END!  GR_M2036
DSC2093 ! X =   657.9000,   6084.650,    501.309,    0 !   !END!  GR_M2037
DSC2094 ! X =   657.3500,   6084.700,    484.000,    0 !   !END!  GR_M2038
DSC2095 ! X =   657.4000,   6084.700,    484.000,    0 !   !END!  GR_M2039
DSC2096 ! X =   657.4500,   6084.700,    485.000,    0 !   !END!  GR_M2040
DSC2097 ! X =   657.5000,   6084.700,    486.422,    0 !   !END!  GR_M2041
DSC2098 ! X =   657.5500,   6084.700,    487.229,    0 !   !END!  GR_M2042
DSC2099 ! X =   657.6000,   6084.700,    488.545,    0 !   !END!  GR_M2043
DSC2100 ! X =   657.6500,   6084.700,    490.948,    0 !   !END!  GR_M2044
DSC2101 ! X =   657.7000,   6084.700,    494.949,    0 !   !END!  GR_M2045
DSC2102 ! X =   657.7500,   6084.700,    498.611,    0 !   !END!  GR_M2046
DSC2103 ! X =   657.8000,   6084.700,    502.274,    0 !   !END!  GR_M2047
DSC2104 ! X =   657.8500,   6084.700,    504.125,    0 !   !END!  GR_M2048
DSC2105 ! X =   657.9000,   6084.700,    504.981,    0 !   !END!  GR_M2049
DSC2106 ! X =   656.8000,   6086.800,    468.134,    0 !   !END!  GR_M2050
DSC2107 ! X =   656.9000,   6086.800,    473.339,    0 !   !END!  GR_M2051
DSC2108 ! X =   657.0000,   6086.800,    473.000,    0 !   !END!  GR_M2052
DSC2109 ! X =   657.1000,   6086.800,    474.680,    0 !   !END!  GR_M2053
DSC2110 ! X =   657.2000,   6086.800,    484.224,    0 !   !END!  GR_M2054
DSC2111 ! X =   657.3000,   6086.800,    495.104,    0 !   !END!  GR_M2055
DSC2112 ! X =   657.4000,   6086.800,    511.194,    0 !   !END!  GR_M2056
DSC2113 ! X =   657.5000,   6086.800,    531.518,    0 !   !END!  GR_M2057
DSC2114 ! X =   657.6000,   6086.800,    549.339,    0 !   !END!  GR_M2058
DSC2115 ! X =   658.8000,   6086.800,    533.945,    0 !   !END!  GR_M2059
DSC2116 ! X =   656.8000,   6086.900,    468.000,    0 !   !END!  GR_M2060
DSC2117 ! X =   656.9000,   6086.900,    470.965,    0 !   !END!  GR_M2061
DSC2118 ! X =   657.0000,   6086.900,    468.000,    0 !   !END!  GR_M2062
DSC2119 ! X =   657.1000,   6086.900,    471.112,    0 !   !END!  GR_M2063
DSC2120 ! X =   657.2000,   6086.900,    481.038,    0 !   !END!  GR_M2064
DSC2121 ! X =   657.3000,   6086.900,    492.034,    0 !   !END!  GR_M2065
DSC2122 ! X =   657.4000,   6086.900,    512.983,    0 !   !END!  GR_M2066
DSC2123 ! X =   657.5000,   6086.900,    534.636,    0 !   !END!  GR_M2067
DSC2124 ! X =   657.6000,   6086.900,    548.696,    0 !   !END!  GR_M2068
DSC2125 ! X =   658.8000,   6086.900,    529.438,    0 !   !END!  GR_M2069
DSC2126 ! X =   656.8000,   6087.000,    468.000,    0 !   !END!  GR_M2070
DSC2127 ! X =   656.9000,   6087.000,    468.000,    0 !   !END!  GR_M2071
DSC2128 ! X =   657.0000,   6087.000,    468.000,    0 !   !END!  GR_M2072
DSC2129 ! X =   657.1000,   6087.000,    469.819,    0 !   !END!  GR_M2073
DSC2130 ! X =   657.2000,   6087.000,    479.595,    0 !   !END!  GR_M2074
DSC2131 ! X =   657.3000,   6087.000,    493.350,    0 !   !END!  GR_M2075
DSC2132 ! X =   657.4000,   6087.000,    516.774,    0 !   !END!  GR_M2076
DSC2133 ! X =   657.5000,   6087.000,    538.458,    0 !   !END!  GR_M2077
DSC2134 ! X =   657.6000,   6087.000,    548.432,    0 !   !END!  GR_M2078
DSC2135 ! X =   657.7000,   6087.000,    560.389,    0 !   !END!  GR_M2079
DSC2136 ! X =   657.8000,   6087.000,    568.000,    0 !   !END!  GR_M2080
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DSC2137 ! X =   657.9000,   6087.000,    566.928,    0 !   !END!  GR_M2081
DSC2138 ! X =   658.0000,   6087.000,    559.981,    0 !   !END!  GR_M2082
DSC2139 ! X =   658.1000,   6087.000,    551.963,    0 !   !END!  GR_M2083
DSC2140 ! X =   658.2000,   6087.000,    546.341,    0 !   !END!  GR_M2084
DSC2141 ! X =   658.3000,   6087.000,    546.000,    0 !   !END!  GR_M2085
DSC2142 ! X =   658.4000,   6087.000,    545.617,    0 !   !END!  GR_M2086
DSC2143 ! X =   658.5000,   6087.000,    542.896,    0 !   !END!  GR_M2087
DSC2144 ! X =   658.6000,   6087.000,    540.000,    0 !   !END!  GR_M2088
DSC2145 ! X =   658.7000,   6087.000,    535.084,    0 !   !END!  GR_M2089
DSC2146 ! X =   658.8000,   6087.000,    520.591,    0 !   !END!  GR_M2090
DSC2147 ! X =   656.8000,   6087.100,    468.000,    0 !   !END!  GR_M2091
DSC2148 ! X =   656.9000,   6087.100,    468.000,    0 !   !END!  GR_M2092
DSC2149 ! X =   657.0000,   6087.100,    468.000,    0 !   !END!  GR_M2093
DSC2150 ! X =   657.1000,   6087.100,    470.083,    0 !   !END!  GR_M2094
DSC2151 ! X =   657.2000,   6087.100,    480.123,    0 !   !END!  GR_M2095
DSC2152 ! X =   657.3000,   6087.100,    498.776,    0 !   !END!  GR_M2096
DSC2153 ! X =   657.4000,   6087.100,    524.734,    0 !   !END!  GR_M2097
DSC2154 ! X =   657.5000,   6087.100,    541.994,    0 !   !END!  GR_M2098
DSC2155 ! X =   657.6000,   6087.100,    550.357,    0 !   !END!  GR_M2099
DSC2156 ! X =   657.7000,   6087.100,    560.235,    0 !   !END!  GR_M2100
DSC2157 ! X =   657.8000,   6087.100,    563.851,    0 !   !END!  GR_M2101
DSC2158 ! X =   657.9000,   6087.100,    557.872,    0 !   !END!  GR_M2102
DSC2159 ! X =   658.0000,   6087.100,    548.062,    0 !   !END!  GR_M2103
DSC2160 ! X =   658.1000,   6087.100,    543.882,    0 !   !END!  GR_M2104
DSC2161 ! X =   658.2000,   6087.100,    543.035,    0 !   !END!  GR_M2105
DSC2162 ! X =   658.3000,   6087.100,    543.184,    0 !   !END!  GR_M2106
DSC2163 ! X =   658.4000,   6087.100,    542.793,    0 !   !END!  GR_M2107
DSC2164 ! X =   658.5000,   6087.100,    540.103,    0 !   !END!  GR_M2108
DSC2165 ! X =   658.6000,   6087.100,    537.274,    0 !   !END!  GR_M2109
DSC2166 ! X =   658.7000,   6087.100,    524.464,    0 !   !END!  GR_M2110
DSC2167 ! X =   658.8000,   6087.100,    501.033,    0 !   !END!  GR_M2111
DSC2168 ! X =   656.8000,   6087.200,    468.000,    0 !   !END!  GR_M2112
DSC2169 ! X =   656.9000,   6087.200,    468.000,    0 !   !END!  GR_M2113
DSC2170 ! X =   657.0000,   6087.200,    468.000,    0 !   !END!  GR_M2114
DSC2171 ! X =   657.1000,   6087.200,    471.342,    0 !   !END!  GR_M2115
DSC2172 ! X =   657.2000,   6087.200,    481.784,    0 !   !END!  GR_M2116
DSC2173 ! X =   657.3000,   6087.200,    505.550,    0 !   !END!  GR_M2117
DSC2174 ! X =   657.4000,   6087.200,    524.964,    0 !   !END!  GR_M2118
DSC2175 ! X =   657.5000,   6087.200,    538.850,    0 !   !END!  GR_M2119
DSC2176 ! X =   657.6000,   6087.200,    551.552,    0 !   !END!  GR_M2120
DSC2177 ! X =   657.7000,   6087.200,    552.710,    0 !   !END!  GR_M2121
DSC2178 ! X =   657.8000,   6087.200,    548.380,    0 !   !END!  GR_M2122
DSC2179 ! X =   657.9000,   6087.200,    544.358,    0 !   !END!  GR_M2123
DSC2180 ! X =   658.0000,   6087.200,    541.043,    0 !   !END!  GR_M2124
DSC2181 ! X =   658.1000,   6087.200,    540.000,    0 !   !END!  GR_M2125
DSC2182 ! X =   658.2000,   6087.200,    540.000,    0 !   !END!  GR_M2126
DSC2183 ! X =   658.3000,   6087.200,    541.000,    0 !   !END!  GR_M2127
DSC2184 ! X =   658.4000,   6087.200,    540.440,    0 !   !END!  GR_M2128
DSC2185 ! X =   658.5000,   6087.200,    534.362,    0 !   !END!  GR_M2129
DSC2186 ! X =   658.6000,   6087.200,    522.074,    0 !   !END!  GR_M2130
DSC2187 ! X =   658.7000,   6087.200,    500.376,    0 !   !END!  GR_M2131
DSC2188 ! X =   658.8000,   6087.200,    479.749,    0 !   !END!  GR_M2132
DSC2189 ! X =   656.8000,   6087.300,    468.000,    0 !   !END!  GR_M2133
DSC2190 ! X =   656.9000,   6087.300,    468.000,    0 !   !END!  GR_M2134
DSC2191 ! X =   657.0000,   6087.300,    468.000,    0 !   !END!  GR_M2135
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DSC2192 ! X =   657.1000,   6087.300,    473.858,    0 !   !END!  GR_M2136
DSC2193 ! X =   657.2000,   6087.300,    483.272,    0 !   !END!  GR_M2137
DSC2194 ! X =   658.4000,   6087.300,    535.594,    0 !   !END!  GR_M2138
DSC2195 ! X =   658.5000,   6087.300,    518.226,    0 !   !END!  GR_M2139
DSC2196 ! X =   658.6000,   6087.300,    493.739,    0 !   !END!  GR_M2140
DSC2197 ! X =   658.7000,   6087.300,    480.150,    0 !   !END!  GR_M2141
DSC2198 ! X =   658.8000,   6087.300,    468.894,    0 !   !END!  GR_M2142
DSC2199 ! X =   656.8000,   6087.400,    468.000,    0 !   !END!  GR_M2143
DSC2200 ! X =   656.9000,   6087.400,    468.000,    0 !   !END!  GR_M2144
DSC2201 ! X =   657.0000,   6087.400,    468.000,    0 !   !END!  GR_M2145
DSC2202 ! X =   657.1000,   6087.400,    476.427,    0 !   !END!  GR_M2146
DSC2203 ! X =   657.2000,   6087.400,    485.963,    0 !   !END!  GR_M2147
DSC2204 ! X =   658.4000,   6087.400,    518.744,    0 !   !END!  GR_M2148
DSC2205 ! X =   658.5000,   6087.400,    492.493,    0 !   !END!  GR_M2149
DSC2206 ! X =   658.6000,   6087.400,    476.296,    0 !   !END!  GR_M2150
DSC2207 ! X =   658.7000,   6087.400,    469.323,    0 !   !END!  GR_M2151
DSC2208 ! X =   658.8000,   6087.400,    468.000,    0 !   !END!  GR_M2152
DSC2209 ! X =   656.8000,   6087.500,    468.000,    0 !   !END!  GR_M2153
DSC2210 ! X =   656.9000,   6087.500,    468.000,    0 !   !END!  GR_M2154
DSC2211 ! X =   657.0000,   6087.500,    469.323,    0 !   !END!  GR_M2155
DSC2212 ! X =   657.1000,   6087.500,    478.002,    0 !   !END!  GR_M2156
DSC2213 ! X =   657.2000,   6087.500,    484.890,    0 !   !END!  GR_M2157
DSC2214 ! X =   658.4000,   6087.500,    498.198,    0 !   !END!  GR_M2158
DSC2215 ! X =   658.5000,   6087.500,    478.056,    0 !   !END!  GR_M2159
DSC2216 ! X =   658.6000,   6087.500,    469.403,    0 !   !END!  GR_M2160
DSC2217 ! X =   658.7000,   6087.500,    468.000,    0 !   !END!  GR_M2161
DSC2218 ! X =   658.8000,   6087.500,    468.000,    0 !   !END!  GR_M2162
DSC2219 ! X =   656.8000,   6087.600,    468.000,    0 !   !END!  GR_M2163
DSC2220 ! X =   656.9000,   6087.600,    468.000,    0 !   !END!  GR_M2164
DSC2221 ! X =   657.0000,   6087.600,    473.242,    0 !   !END!  GR_M2165
DSC2222 ! X =   657.1000,   6087.600,    478.389,    0 !   !END!  GR_M2166
DSC2223 ! X =   657.2000,   6087.600,    482.872,    0 !   !END!  GR_M2167
DSC2224 ! X =   658.4000,   6087.600,    487.317,    0 !   !END!  GR_M2168
DSC2225 ! X =   658.5000,   6087.600,    470.050,    0 !   !END!  GR_M2169
DSC2226 ! X =   658.6000,   6087.600,    468.000,    0 !   !END!  GR_M2170
DSC2227 ! X =   658.7000,   6087.600,    468.000,    0 !   !END!  GR_M2171
DSC2228 ! X =   658.8000,   6087.600,    468.000,    0 !   !END!  GR_M2172
DSC2229 ! X =   656.8000,   6087.700,    468.000,    0 !   !END!  GR_M2173
DSC2230 ! X =   656.9000,   6087.700,    468.000,    0 !   !END!  GR_M2174
DSC2231 ! X =   657.0000,   6087.700,    475.000,    0 !   !END!  GR_M2175
DSC2232 ! X =   657.1000,   6087.700,    478.653,    0 !   !END!  GR_M2176
DSC2233 ! X =   657.2000,   6087.700,    483.131,    0 !   !END!  GR_M2177
DSC2234 ! X =   658.4000,   6087.700,    479.272,    0 !   !END!  GR_M2178
DSC2235 ! X =   658.5000,   6087.700,    469.393,    0 !   !END!  GR_M2179
DSC2236 ! X =   658.6000,   6087.700,    467.787,    0 !   !END!  GR_M2180
DSC2237 ! X =   658.7000,   6087.700,    468.000,    0 !   !END!  GR_M2181
DSC2238 ! X =   658.8000,   6087.700,    468.000,    0 !   !END!  GR_M2182
DSC2239 ! X =   656.8000,   6087.800,    468.000,    0 !   !END!  GR_M2183
DSC2240 ! X =   656.9000,   6087.800,    468.000,    0 !   !END!  GR_M2184
DSC2241 ! X =   657.0000,   6087.800,    475.973,    0 !   !END!  GR_M2185
DSC2242 ! X =   657.1000,   6087.800,    478.983,    0 !   !END!  GR_M2186
DSC2243 ! X =   657.2000,   6087.800,    483.257,    0 !   !END!  GR_M2187
DSC2244 ! X =   658.4000,   6087.800,    471.010,    0 !   !END!  GR_M2188
DSC2245 ! X =   658.5000,   6087.800,    468.000,    0 !   !END!  GR_M2189
DSC2246 ! X =   658.6000,   6087.800,    467.000,    0 !   !END!  GR_M2190
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DSC2247 ! X =   658.7000,   6087.800,    468.000,    0 !   !END!  GR_M2191
DSC2248 ! X =   658.8000,   6087.800,    468.000,    0 !   !END!  GR_M2192
DSC2249 ! X =   656.8000,   6087.900,    468.000,    0 !   !END!  GR_M2193
DSC2250 ! X =   656.9000,   6087.900,    470.429,    0 !   !END!  GR_M2194
DSC2251 ! X =   657.0000,   6087.900,    476.698,    0 !   !END!  GR_M2195
DSC2252 ! X =   657.1000,   6087.900,    479.266,    0 !   !END!  GR_M2196
DSC2253 ! X =   657.2000,   6087.900,    483.026,    0 !   !END!  GR_M2197
DSC2254 ! X =   658.4000,   6087.900,    468.000,    0 !   !END!  GR_M2198
DSC2255 ! X =   658.5000,   6087.900,    467.000,    0 !   !END!  GR_M2199
DSC2256 ! X =   658.6000,   6087.900,    467.000,    0 !   !END!  GR_M2200
DSC2257 ! X =   658.7000,   6087.900,    467.000,    0 !   !END!  GR_M2201
DSC2258 ! X =   658.8000,   6087.900,    468.000,    0 !   !END!  GR_M2202
DSC2259 ! X =   656.8000,   6088.000,    468.000,    0 !   !END!  GR_M2203
DSC2260 ! X =   656.9000,   6088.000,    473.345,    0 !   !END!  GR_M2204
DSC2261 ! X =   657.0000,   6088.000,    477.000,    0 !   !END!  GR_M2205
DSC2262 ! X =   657.1000,   6088.000,    480.000,    0 !   !END!  GR_M2206
DSC2263 ! X =   657.2000,   6088.000,    483.000,    0 !   !END!  GR_M2207
DSC2264 ! X =   658.4000,   6088.000,    467.173,    0 !   !END!  GR_M2208
DSC2265 ! X =   658.5000,   6088.000,    467.000,    0 !   !END!  GR_M2209
DSC2266 ! X =   658.6000,   6088.000,    467.000,    0 !   !END!  GR_M2210
DSC2267 ! X =   658.7000,   6088.000,    467.000,    0 !   !END!  GR_M2211
DSC2268 ! X =   658.8000,   6088.000,    468.000,    0 !   !END!  GR_M2212
DSC2269 ! X =   656.8000,   6088.100,    468.833,    0 !   !END!  GR_M2213
DSC2270 ! X =   656.9000,   6088.100,    475.738,    0 !   !END!  GR_M2214
DSC2271 ! X =   657.0000,   6088.100,    478.000,    0 !   !END!  GR_M2215
DSC2272 ! X =   657.1000,   6088.100,    480.000,    0 !   !END!  GR_M2216
DSC2273 ! X =   657.2000,   6088.100,    482.000,    0 !   !END!  GR_M2217
DSC2274 ! X =   658.4000,   6088.100,    467.000,    0 !   !END!  GR_M2218
DSC2275 ! X =   658.5000,   6088.100,    467.000,    0 !   !END!  GR_M2219
DSC2276 ! X =   658.6000,   6088.100,    467.000,    0 !   !END!  GR_M2220
DSC2277 ! X =   658.7000,   6088.100,    467.000,    0 !   !END!  GR_M2221
DSC2278 ! X =   658.8000,   6088.100,    468.000,    0 !   !END!  GR_M2222
DSC2279 ! X =   656.8000,   6088.200,    473.000,    0 !   !END!  GR_M2223
DSC2280 ! X =   656.9000,   6088.200,    476.000,    0 !   !END!  GR_M2224
DSC2281 ! X =   657.0000,   6088.200,    477.389,    0 !   !END!  GR_M2225
DSC2282 ! X =   657.1000,   6088.200,    479.000,    0 !   !END!  GR_M2226
DSC2283 ! X =   657.2000,   6088.200,    480.114,    0 !   !END!  GR_M2227
DSC2284 ! X =   658.4000,   6088.200,    467.000,    0 !   !END!  GR_M2228
DSC2285 ! X =   658.5000,   6088.200,    466.000,    0 !   !END!  GR_M2229
DSC2286 ! X =   658.6000,   6088.200,    467.000,    0 !   !END!  GR_M2230
DSC2287 ! X =   658.7000,   6088.200,    467.404,    0 !   !END!  GR_M2231
DSC2288 ! X =   658.8000,   6088.200,    468.000,    0 !   !END!  GR_M2232
DSC2289 ! X =   656.8000,   6088.300,    473.957,    0 !   !END!  GR_M2233
DSC2290 ! X =   656.9000,   6088.300,    475.261,    0 !   !END!  GR_M2234
DSC2291 ! X =   657.0000,   6088.300,    476.872,    0 !   !END!  GR_M2235
DSC2292 ! X =   657.1000,   6088.300,    477.000,    0 !   !END!  GR_M2236
DSC2293 ! X =   657.2000,   6088.300,    477.942,    0 !   !END!  GR_M2237
DSC2294 ! X =   658.4000,   6088.300,    467.000,    0 !   !END!  GR_M2238
DSC2295 ! X =   658.5000,   6088.300,    467.000,    0 !   !END!  GR_M2239
DSC2296 ! X =   658.6000,   6088.300,    467.000,    0 !   !END!  GR_M2240
DSC2297 ! X =   658.7000,   6088.300,    468.000,    0 !   !END!  GR_M2241
DSC2298 ! X =   658.8000,   6088.300,    468.000,    0 !   !END!  GR_M2242
DSC2299 ! X =   656.8000,   6088.400,    474.000,    0 !   !END!  GR_M2243
DSC2300 ! X =   656.9000,   6088.400,    475.000,    0 !   !END!  GR_M2244
DSC2301 ! X =   657.0000,   6088.400,    475.190,    0 !   !END!  GR_M2245
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DSC2302 ! X =   657.1000,   6088.400,    475.344,    0 !   !END!  GR_M2246
DSC2303 ! X =   657.2000,   6088.400,    475.493,    0 !   !END!  GR_M2247
DSC2304 ! X =   657.3000,   6088.400,    477.290,    0 !   !END!  GR_M2248
DSC2305 ! X =   657.4000,   6088.400,    480.740,    0 !   !END!  GR_M2249
DSC2306 ! X =   657.5000,   6088.400,    483.949,    0 !   !END!  GR_M2250
DSC2307 ! X =   657.6000,   6088.400,    483.205,    0 !   !END!  GR_M2251
DSC2308 ! X =   657.7000,   6088.400,    477.970,    0 !   !END!  GR_M2252
DSC2309 ! X =   657.8000,   6088.400,    470.541,    0 !   !END!  GR_M2253
DSC2310 ! X =   657.9000,   6088.400,    468.554,    0 !   !END!  GR_M2254
DSC2311 ! X =   658.0000,   6088.400,    469.000,    0 !   !END!  GR_M2255
DSC2312 ! X =   658.1000,   6088.400,    468.596,    0 !   !END!  GR_M2256
DSC2313 ! X =   658.2000,   6088.400,    468.000,    0 !   !END!  GR_M2257
DSC2314 ! X =   658.3000,   6088.400,    467.000,    0 !   !END!  GR_M2258
DSC2315 ! X =   658.4000,   6088.400,    467.000,    0 !   !END!  GR_M2259
DSC2316 ! X =   658.5000,   6088.400,    467.000,    0 !   !END!  GR_M2260
DSC2317 ! X =   658.6000,   6088.400,    467.821,    0 !   !END!  GR_M2261
DSC2318 ! X =   658.7000,   6088.400,    468.000,    0 !   !END!  GR_M2262
DSC2319 ! X =   658.8000,   6088.400,    468.000,    0 !   !END!  GR_M2263
DSC2320 ! X =   656.8000,   6088.500,    474.000,    0 !   !END!  GR_M2264
DSC2321 ! X =   656.9000,   6088.500,    474.000,    0 !   !END!  GR_M2265
DSC2322 ! X =   657.0000,   6088.500,    474.000,    0 !   !END!  GR_M2266
DSC2323 ! X =   657.1000,   6088.500,    473.034,    0 !   !END!  GR_M2267
DSC2324 ! X =   657.2000,   6088.500,    473.000,    0 !   !END!  GR_M2268
DSC2325 ! X =   657.3000,   6088.500,    474.809,    0 !   !END!  GR_M2269
DSC2326 ! X =   657.4000,   6088.500,    479.095,    0 !   !END!  GR_M2270
DSC2327 ! X =   657.5000,   6088.500,    480.638,    0 !   !END!  GR_M2271
DSC2328 ! X =   657.6000,   6088.500,    478.630,    0 !   !END!  GR_M2272
DSC2329 ! X =   657.7000,   6088.500,    472.301,    0 !   !END!  GR_M2273
DSC2330 ! X =   657.8000,   6088.500,    468.083,    0 !   !END!  GR_M2274
DSC2331 ! X =   657.9000,   6088.500,    468.000,    0 !   !END!  GR_M2275
DSC2332 ! X =   658.0000,   6088.500,    468.000,    0 !   !END!  GR_M2276
DSC2333 ! X =   658.1000,   6088.500,    468.000,    0 !   !END!  GR_M2277
DSC2334 ! X =   658.2000,   6088.500,    468.000,    0 !   !END!  GR_M2278
DSC2335 ! X =   658.3000,   6088.500,    468.000,    0 !   !END!  GR_M2279
DSC2336 ! X =   658.4000,   6088.500,    467.994,    0 !   !END!  GR_M2280
DSC2337 ! X =   658.5000,   6088.500,    468.000,    0 !   !END!  GR_M2281
DSC2338 ! X =   658.6000,   6088.500,    468.000,    0 !   !END!  GR_M2282
DSC2339 ! X =   658.7000,   6088.500,    468.000,    0 !   !END!  GR_M2283
DSC2340 ! X =   658.8000,   6088.500,    468.000,    0 !   !END!  GR_M2284
DSC2341 ! X =   656.8000,   6088.600,    473.589,    0 !   !END!  GR_M2285
DSC2342 ! X =   656.9000,   6088.600,    472.421,    0 !   !END!  GR_M2286
DSC2343 ! X =   657.0000,   6088.600,    471.574,    0 !   !END!  GR_M2287
DSC2344 ! X =   657.1000,   6088.600,    470.714,    0 !   !END!  GR_M2288
DSC2345 ! X =   657.2000,   6088.600,    469.938,    0 !   !END!  GR_M2289
DSC2346 ! X =   657.3000,   6088.600,    472.025,    0 !   !END!  GR_M2290
DSC2347 ! X =   657.4000,   6088.600,    477.082,    0 !   !END!  GR_M2291
DSC2348 ! X =   657.5000,   6088.600,    477.370,    0 !   !END!  GR_M2292
DSC2349 ! X =   657.6000,   6088.600,    474.482,    0 !   !END!  GR_M2293
DSC2350 ! X =   657.7000,   6088.600,    470.061,    0 !   !END!  GR_M2294
DSC2351 ! X =   657.8000,   6088.600,    468.000,    0 !   !END!  GR_M2295
DSC2352 ! X =   657.9000,   6088.600,    468.000,    0 !   !END!  GR_M2296
DSC2353 ! X =   658.0000,   6088.600,    468.000,    0 !   !END!  GR_M2297
DSC2354 ! X =   658.1000,   6088.600,    468.000,    0 !   !END!  GR_M2298
DSC2355 ! X =   658.2000,   6088.600,    468.000,    0 !   !END!  GR_M2299
DSC2356 ! X =   658.3000,   6088.600,    468.000,    0 !   !END!  GR_M2300
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DSC2357 ! X =   658.4000,   6088.600,    468.000,    0 !   !END!  GR_M2301
DSC2358 ! X =   658.5000,   6088.600,    468.000,    0 !   !END!  GR_M2302
DSC2359 ! X =   658.6000,   6088.600,    469.000,    0 !   !END!  GR_M2303
DSC2360 ! X =   658.7000,   6088.600,    468.890,    0 !   !END!  GR_M2304
DSC2361 ! X =   658.8000,   6088.600,    470.694,    0 !   !END!  GR_M2305
DSC2362 ! X =   656.8000,   6088.700,    471.962,    0 !   !END!  GR_M2306
DSC2363 ! X =   656.9000,   6088.700,    469.076,    0 !   !END!  GR_M2307
DSC2364 ! X =   657.0000,   6088.700,    468.000,    0 !   !END!  GR_M2308
DSC2365 ! X =   657.1000,   6088.700,    468.000,    0 !   !END!  GR_M2309
DSC2366 ! X =   657.2000,   6088.700,    468.000,    0 !   !END!  GR_M2310
DSC2367 ! X =   657.3000,   6088.700,    470.235,    0 !   !END!  GR_M2311
DSC2368 ! X =   657.4000,   6088.700,    475.624,    0 !   !END!  GR_M2312
DSC2369 ! X =   657.5000,   6088.700,    474.802,    0 !   !END!  GR_M2313
DSC2370 ! X =   657.6000,   6088.700,    471.486,    0 !   !END!  GR_M2314
DSC2371 ! X =   657.7000,   6088.700,    468.268,    0 !   !END!  GR_M2315
DSC2372 ! X =   657.8000,   6088.700,    468.000,    0 !   !END!  GR_M2316
DSC2373 ! X =   657.9000,   6088.700,    468.000,    0 !   !END!  GR_M2317
DSC2374 ! X =   658.0000,   6088.700,    468.000,    0 !   !END!  GR_M2318
DSC2375 ! X =   658.1000,   6088.700,    468.000,    0 !   !END!  GR_M2319
DSC2376 ! X =   658.2000,   6088.700,    468.000,    0 !   !END!  GR_M2320
DSC2377 ! X =   658.3000,   6088.700,    468.000,    0 !   !END!  GR_M2321
DSC2378 ! X =   658.4000,   6088.700,    468.000,    0 !   !END!  GR_M2322
DSC2379 ! X =   658.5000,   6088.700,    469.000,    0 !   !END!  GR_M2323
DSC2380 ! X =   658.6000,   6088.700,    470.000,    0 !   !END!  GR_M2324
DSC2381 ! X =   658.7000,   6088.700,    472.156,    0 !   !END!  GR_M2325
DSC2382 ! X =   658.8000,   6088.700,    474.469,    0 !   !END!  GR_M2326
DSC2383 ! X =   656.8000,   6088.800,    468.000,    0 !   !END!  GR_M2327
DSC2384 ! X =   656.9000,   6088.800,    468.000,    0 !   !END!  GR_M2328
DSC2385 ! X =   657.0000,   6088.800,    468.000,    0 !   !END!  GR_M2329
DSC2386 ! X =   657.1000,   6088.800,    468.000,    0 !   !END!  GR_M2330
DSC2387 ! X =   657.2000,   6088.800,    468.000,    0 !   !END!  GR_M2331
DSC2388 ! X =   657.3000,   6088.800,    468.499,    0 !   !END!  GR_M2332
DSC2389 ! X =   657.4000,   6088.800,    474.549,    0 !   !END!  GR_M2333
DSC2390 ! X =   657.5000,   6088.800,    471.864,    0 !   !END!  GR_M2334
DSC2391 ! X =   657.6000,   6088.800,    468.044,    0 !   !END!  GR_M2335
DSC2392 ! X =   657.7000,   6088.800,    468.000,    0 !   !END!  GR_M2336
DSC2393 ! X =   657.8000,   6088.800,    468.000,    0 !   !END!  GR_M2337
DSC2394 ! X =   657.9000,   6088.800,    468.000,    0 !   !END!  GR_M2338
DSC2395 ! X =   658.0000,   6088.800,    468.000,    0 !   !END!  GR_M2339
DSC2396 ! X =   658.1000,   6088.800,    468.000,    0 !   !END!  GR_M2340
DSC2397 ! X =   658.2000,   6088.800,    468.000,    0 !   !END!  GR_M2341
DSC2398 ! X =   658.3000,   6088.800,    468.000,    0 !   !END!  GR_M2342
DSC2399 ! X =   658.4000,   6088.800,    468.000,    0 !   !END!  GR_M2343
DSC2400 ! X =   658.5000,   6088.800,    469.000,    0 !   !END!  GR_M2344
DSC2401 ! X =   658.6000,   6088.800,    471.473,    0 !   !END!  GR_M2345
DSC2402 ! X =   658.7000,   6088.800,    475.117,    0 !   !END!  GR_M2346
DSC2403 ! X =   658.8000,   6088.800,    479.315,    0 !   !END!  GR_M2347
DSC2404 ! X =   657.2000,   6085.400,    484.107,    0 !   !END!  GR_M2348
DSC2405 ! X =   658.4000,   6085.400,    548.894,    0 !   !END!  GR_M2349
DSC2406 ! X =   658.5000,   6085.400,    550.000,    0 !   !END!  GR_M2350
DSC2407 ! X =   658.6000,   6085.400,    548.126,    0 !   !END!  GR_M2351
DSC2408 ! X =   658.7000,   6085.400,    545.112,    0 !   !END!  GR_M2352
DSC2409 ! X =   658.8000,   6085.400,    538.430,    0 !   !END!  GR_M2353
DSC2410 ! X =   658.9000,   6085.400,    525.520,    0 !   !END!  GR_M2354
DSC2411 ! X =   659.0000,   6085.400,    516.339,    0 !   !END!  GR_M2355
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DSC2412 ! X =   659.1000,   6085.400,    512.173,    0 !   !END!  GR_M2356
DSC2413 ! X =   659.2000,   6085.400,    503.546,    0 !   !END!  GR_M2357
DSC2414 ! X =   657.2000,   6085.500,    485.371,    0 !   !END!  GR_M2358
DSC2415 ! X =   658.4000,   6085.500,    547.290,    0 !   !END!  GR_M2359
DSC2416 ! X =   658.5000,   6085.500,    544.886,    0 !   !END!  GR_M2360
DSC2417 ! X =   658.6000,   6085.500,    540.154,    0 !   !END!  GR_M2361
DSC2418 ! X =   658.7000,   6085.500,    535.718,    0 !   !END!  GR_M2362
DSC2419 ! X =   658.8000,   6085.500,    524.503,    0 !   !END!  GR_M2363
DSC2420 ! X =   658.9000,   6085.500,    514.242,    0 !   !END!  GR_M2364
DSC2421 ! X =   659.0000,   6085.500,    503.722,    0 !   !END!  GR_M2365
DSC2422 ! X =   659.1000,   6085.500,    502.916,    0 !   !END!  GR_M2366
DSC2423 ! X =   659.2000,   6085.500,    495.117,    0 !   !END!  GR_M2367
DSC2424 ! X =   657.2000,   6085.600,    484.939,    0 !   !END!  GR_M2368
DSC2425 ! X =   658.4000,   6085.600,    539.606,    0 !   !END!  GR_M2369
DSC2426 ! X =   658.5000,   6085.600,    533.398,    0 !   !END!  GR_M2370
DSC2427 ! X =   658.6000,   6085.600,    527.528,    0 !   !END!  GR_M2371
DSC2428 ! X =   658.7000,   6085.600,    517.958,    0 !   !END!  GR_M2372
DSC2429 ! X =   658.8000,   6085.600,    506.398,    0 !   !END!  GR_M2373
DSC2430 ! X =   658.9000,   6085.600,    497.493,    0 !   !END!  GR_M2374
DSC2431 ! X =   659.0000,   6085.600,    492.579,    0 !   !END!  GR_M2375
DSC2432 ! X =   659.1000,   6085.600,    491.115,    0 !   !END!  GR_M2376
DSC2433 ! X =   659.2000,   6085.600,    487.000,    0 !   !END!  GR_M2377
DSC2434 ! X =   657.2000,   6085.700,    486.894,    0 !   !END!  GR_M2378
DSC2435 ! X =   658.4000,   6085.700,    528.390,    0 !   !END!  GR_M2379
DSC2436 ! X =   658.5000,   6085.700,    521.373,    0 !   !END!  GR_M2380
DSC2437 ! X =   658.6000,   6085.700,    511.355,    0 !   !END!  GR_M2381
DSC2438 ! X =   658.7000,   6085.700,    502.383,    0 !   !END!  GR_M2382
DSC2439 ! X =   658.8000,   6085.700,    494.032,    0 !   !END!  GR_M2383
DSC2440 ! X =   658.9000,   6085.700,    487.863,    0 !   !END!  GR_M2384
DSC2441 ! X =   659.0000,   6085.700,    487.000,    0 !   !END!  GR_M2385
DSC2442 ! X =   659.1000,   6085.700,    487.000,    0 !   !END!  GR_M2386
DSC2443 ! X =   659.2000,   6085.700,    487.000,    0 !   !END!  GR_M2387
DSC2444 ! X =   657.2000,   6085.800,    488.154,    0 !   !END!  GR_M2388
DSC2445 ! X =   658.4000,   6085.800,    513.286,    0 !   !END!  GR_M2389
DSC2446 ! X =   658.5000,   6085.800,    505.690,    0 !   !END!  GR_M2390
DSC2447 ! X =   658.6000,   6085.800,    498.494,    0 !   !END!  GR_M2391
DSC2448 ! X =   658.7000,   6085.800,    490.837,    0 !   !END!  GR_M2392
DSC2449 ! X =   658.8000,   6085.800,    487.000,    0 !   !END!  GR_M2393
DSC2450 ! X =   658.9000,   6085.800,    487.000,    0 !   !END!  GR_M2394
DSC2451 ! X =   659.0000,   6085.800,    487.000,    0 !   !END!  GR_M2395
DSC2452 ! X =   659.1000,   6085.800,    487.000,    0 !   !END!  GR_M2396
DSC2453 ! X =   659.2000,   6085.800,    487.000,    0 !   !END!  GR_M2397
DSC2454 ! X =   657.2000,   6085.900,    487.418,    0 !   !END!  GR_M2398
DSC2455 ! X =   658.8000,   6085.900,    487.000,    0 !   !END!  GR_M2399
DSC2456 ! X =   658.9000,   6085.900,    487.000,    0 !   !END!  GR_M2400
DSC2457 ! X =   659.0000,   6085.900,    487.000,    0 !   !END!  GR_M2401
DSC2458 ! X =   659.1000,   6085.900,    487.000,    0 !   !END!  GR_M2402
DSC2459 ! X =   659.2000,   6085.900,    487.000,    0 !   !END!  GR_M2403
DSC2460 ! X =   657.2000,   6086.000,    486.600,    0 !   !END!  GR_M2404
DSC2461 ! X =   658.8000,   6086.000,    487.000,    0 !   !END!  GR_M2405
DSC2462 ! X =   658.9000,   6086.000,    487.000,    0 !   !END!  GR_M2406
DSC2463 ! X =   659.0000,   6086.000,    487.000,    0 !   !END!  GR_M2407
DSC2464 ! X =   659.1000,   6086.000,    501.800,    0 !   !END!  GR_M2408
DSC2465 ! X =   659.2000,   6086.000,    507.643,    0 !   !END!  GR_M2409
DSC2466 ! X =   657.2000,   6086.100,    484.577,    0 !   !END!  GR_M2410
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DSC2467 ! X =   658.8000,   6086.100,    487.000,    0 !   !END!  GR_M2411
DSC2468 ! X =   658.9000,   6086.100,    487.000,    0 !   !END!  GR_M2412
DSC2469 ! X =   659.0000,   6086.100,    501.216,    0 !   !END!  GR_M2413
DSC2470 ! X =   659.1000,   6086.100,    504.555,    0 !   !END!  GR_M2414
DSC2471 ! X =   659.2000,   6086.100,    517.349,    0 !   !END!  GR_M2415
DSC2472 ! X =   657.2000,   6086.200,    485.142,    0 !   !END!  GR_M2416
DSC2473 ! X =   657.3000,   6086.200,    491.222,    0 !   !END!  GR_M2417
DSC2474 ! X =   657.4000,   6086.200,    499.157,    0 !   !END!  GR_M2418
DSC2475 ! X =   657.5000,   6086.200,    506.877,    0 !   !END!  GR_M2419
DSC2476 ! X =   657.6000,   6086.200,    517.315,    0 !   !END!  GR_M2420
DSC2477 ! X =   658.8000,   6086.200,    489.538,    0 !   !END!  GR_M2421
DSC2478 ! X =   658.9000,   6086.200,    501.107,    0 !   !END!  GR_M2422
DSC2479 ! X =   659.0000,   6086.200,    511.916,    0 !   !END!  GR_M2423
DSC2480 ! X =   659.1000,   6086.200,    518.896,    0 !   !END!  GR_M2424
DSC2481 ! X =   659.2000,   6086.200,    520.738,    0 !   !END!  GR_M2425
DSC2482 ! X =   657.2000,   6086.300,    486.464,    0 !   !END!  GR_M2426
DSC2483 ! X =   657.3000,   6086.300,    493.934,    0 !   !END!  GR_M2427
DSC2484 ! X =   657.4000,   6086.300,    502.716,    0 !   !END!  GR_M2428
DSC2485 ! X =   657.5000,   6086.300,    512.451,    0 !   !END!  GR_M2429
DSC2486 ! X =   657.6000,   6086.300,    523.926,    0 !   !END!  GR_M2430
DSC2487 ! X =   658.8000,   6086.300,    504.803,    0 !   !END!  GR_M2431
DSC2488 ! X =   658.9000,   6086.300,    516.539,    0 !   !END!  GR_M2432
DSC2489 ! X =   659.0000,   6086.300,    520.338,    0 !   !END!  GR_M2433
DSC2490 ! X =   659.1000,   6086.300,    525.118,    0 !   !END!  GR_M2434
DSC2491 ! X =   659.2000,   6086.300,    522.999,    0 !   !END!  GR_M2435
DSC2492 ! X =   657.2000,   6086.400,    488.728,    0 !   !END!  GR_M2436
DSC2493 ! X =   657.3000,   6086.400,    497.240,    0 !   !END!  GR_M2437
DSC2494 ! X =   657.4000,   6086.400,    507.373,    0 !   !END!  GR_M2438
DSC2495 ! X =   657.5000,   6086.400,    518.026,    0 !   !END!  GR_M2439
DSC2496 ! X =   657.6000,   6086.400,    529.350,    0 !   !END!  GR_M2440
DSC2497 ! X =   658.8000,   6086.400,    517.698,    0 !   !END!  GR_M2441
DSC2498 ! X =   658.9000,   6086.400,    522.472,    0 !   !END!  GR_M2442
DSC2499 ! X =   659.0000,   6086.400,    525.304,    0 !   !END!  GR_M2443
DSC2500 ! X =   659.1000,   6086.400,    529.858,    0 !   !END!  GR_M2444
DSC2501 ! X =   659.2000,   6086.400,    523.714,    0 !   !END!  GR_M2445
DSC2502 ! X =   657.2000,   6086.500,    489.987,    0 !   !END!  GR_M2446
DSC2503 ! X =   657.3000,   6086.500,    499.931,    0 !   !END!  GR_M2447
DSC2504 ! X =   657.4000,   6086.500,    511.210,    0 !   !END!  GR_M2448
DSC2505 ! X =   657.5000,   6086.500,    523.018,    0 !   !END!  GR_M2449
DSC2506 ! X =   657.6000,   6086.500,    534.821,    0 !   !END!  GR_M2450
DSC2507 ! X =   658.8000,   6086.500,    523.837,    0 !   !END!  GR_M2451
DSC2508 ! X =   658.9000,   6086.500,    530.083,    0 !   !END!  GR_M2452
DSC2509 ! X =   659.0000,   6086.500,    530.491,    0 !   !END!  GR_M2453
DSC2510 ! X =   659.1000,   6086.500,    533.127,    0 !   !END!  GR_M2454
DSC2511 ! X =   659.2000,   6086.500,    519.458,    0 !   !END!  GR_M2455
DSC2512 ! X =   657.2000,   6086.600,    491.251,    0 !   !END!  GR_M2456
DSC2513 ! X =   657.3000,   6086.600,    500.518,    0 !   !END!  GR_M2457
DSC2514 ! X =   657.4000,   6086.600,    512.416,    0 !   !END!  GR_M2458
DSC2515 ! X =   657.5000,   6086.600,    526.851,    0 !   !END!  GR_M2459
DSC2516 ! X =   657.6000,   6086.600,    539.494,    0 !   !END!  GR_M2460
DSC2517 ! X =   658.8000,   6086.600,    529.411,    0 !   !END!  GR_M2461
DSC2518 ! X =   658.9000,   6086.600,    534.135,    0 !   !END!  GR_M2462
DSC2519 ! X =   659.0000,   6086.600,    534.027,    0 !   !END!  GR_M2463
DSC2520 ! X =   659.1000,   6086.600,    524.170,    0 !   !END!  GR_M2464
DSC2521 ! X =   659.2000,   6086.600,    506.674,    0 !   !END!  GR_M2465
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DSC2522 ! X =   657.2000,   6086.700,    488.266,    0 !   !END!  GR_M2466
DSC2523 ! X =   657.3000,   6086.700,    498.896,    0 !   !END!  GR_M2467
DSC2524 ! X =   657.4000,   6086.700,    511.971,    0 !   !END!  GR_M2468
DSC2525 ! X =   657.5000,   6086.700,    529.640,    0 !   !END!  GR_M2469
DSC2526 ! X =   657.6000,   6086.700,    545.343,    0 !   !END!  GR_M2470
DSC2527 ! X =   658.8000,   6086.700,    533.138,    0 !   !END!  GR_M2471
DSC2528 ! X =   658.9000,   6086.700,    535.219,    0 !   !END!  GR_M2472
DSC2529 ! X =   659.0000,   6086.700,    525.586,    0 !   !END!  GR_M2473
DSC2530 ! X =   659.1000,   6086.700,    506.229,    0 !   !END!  GR_M2474
DSC2531 ! X =   659.2000,   6086.700,    495.214,    0 !   !END!  GR_M2475
DSC2532 ! X =   658.9000,   6086.800,    528.255,    0 !   !END!  GR_M2476
DSC2533 ! X =   659.0000,   6086.800,    504.872,    0 !   !END!  GR_M2477
DSC2534 ! X =   659.1000,   6086.800,    492.800,    0 !   !END!  GR_M2478
DSC2535 ! X =   659.2000,   6086.800,    481.258,    0 !   !END!  GR_M2479
DSC2536 ! X =   658.9000,   6086.900,    514.163,    0 !   !END!  GR_M2480
DSC2537 ! X =   659.0000,   6086.900,    493.422,    0 !   !END!  GR_M2481
DSC2538 ! X =   659.1000,   6086.900,    478.821,    0 !   !END!  GR_M2482
DSC2539 ! X =   659.2000,   6086.900,    469.562,    0 !   !END!  GR_M2483
DSC2540 ! X =   658.9000,   6087.000,    497.899,    0 !   !END!  GR_M2484
DSC2541 ! X =   659.0000,   6087.000,    481.877,    0 !   !END!  GR_M2485
DSC2542 ! X =   659.1000,   6087.000,    468.427,    0 !   !END!  GR_M2486
DSC2543 ! X =   659.2000,   6087.000,    468.000,    0 !   !END!  GR_M2487
DSC2544 ! X =   658.9000,   6087.100,    480.015,    0 !   !END!  GR_M2488
DSC2545 ! X =   659.0000,   6087.100,    470.067,    0 !   !END!  GR_M2489
DSC2546 ! X =   659.1000,   6087.100,    468.000,    0 !   !END!  GR_M2490
DSC2547 ! X =   659.2000,   6087.100,    468.000,    0 !   !END!  GR_M2491
DSC2548 ! X =   658.9000,   6087.200,    468.790,    0 !   !END!  GR_M2492
DSC2549 ! X =   659.0000,   6087.200,    468.000,    0 !   !END!  GR_M2493
DSC2550 ! X =   659.1000,   6087.200,    468.000,    0 !   !END!  GR_M2494
DSC2551 ! X =   659.2000,   6087.200,    468.000,    0 !   !END!  GR_M2495
DSC2552 ! X =   658.9000,   6087.300,    468.000,    0 !   !END!  GR_M2496
DSC2553 ! X =   659.0000,   6087.300,    468.000,    0 !   !END!  GR_M2497
DSC2554 ! X =   659.1000,   6087.300,    468.000,    0 !   !END!  GR_M2498
DSC2555 ! X =   659.2000,   6087.300,    468.000,    0 !   !END!  GR_M2499
DSC2556 ! X =   658.9000,   6087.400,    468.000,    0 !   !END!  GR_M2500
DSC2557 ! X =   659.0000,   6087.400,    468.000,    0 !   !END!  GR_M2501
DSC2558 ! X =   659.1000,   6087.400,    468.000,    0 !   !END!  GR_M2502
DSC2559 ! X =   659.2000,   6087.400,    468.000,    0 !   !END!  GR_M2503
DSC2560 ! X =   658.0000,   6084.600,    506.349,    0 !   !END!  GR_M2504
DSC2561 ! X =   658.1000,   6084.600,    521.338,    0 !   !END!  GR_M2505
DSC2562 ! X =   658.2000,   6084.600,    532.812,    0 !   !END!  GR_M2506
DSC2563 ! X =   658.3000,   6084.600,    536.220,    0 !   !END!  GR_M2507
DSC2564 ! X =   658.4000,   6084.600,    538.078,    0 !   !END!  GR_M2508
DSC2565 ! X =   658.5000,   6084.600,    543.418,    0 !   !END!  GR_M2509
DSC2566 ! X =   658.6000,   6084.600,    541.739,    0 !   !END!  GR_M2510
DSC2567 ! X =   658.7000,   6084.600,    523.926,    0 !   !END!  GR_M2511
DSC2568 ! X =   658.8000,   6084.600,    510.885,    0 !   !END!  GR_M2512
DSC2569 ! X =   658.0000,   6084.700,    515.614,    0 !   !END!  GR_M2513
DSC2570 ! X =   658.1000,   6084.700,    531.348,    0 !   !END!  GR_M2514
DSC2571 ! X =   658.2000,   6084.700,    535.029,    0 !   !END!  GR_M2515
DSC2572 ! X =   658.3000,   6084.700,    535.614,    0 !   !END!  GR_M2516
DSC2573 ! X =   658.4000,   6084.700,    532.768,    0 !   !END!  GR_M2517
DSC2574 ! X =   658.5000,   6084.700,    536.834,    0 !   !END!  GR_M2518
DSC2575 ! X =   658.6000,   6084.700,    524.431,    0 !   !END!  GR_M2519
DSC2576 ! X =   658.7000,   6084.700,    514.909,    0 !   !END!  GR_M2520
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DSC2577 ! X =   658.8000,   6084.700,    503.937,    0 !   !END!  GR_M2521
DSC2578 ! X =   657.4000,   6084.800,    485.029,    0 !   !END!  GR_M2522
DSC2579 ! X =   657.5000,   6084.800,    488.872,    0 !   !END!  GR_M2523
DSC2580 ! X =   657.6000,   6084.800,    491.334,    0 !   !END!  GR_M2524
DSC2581 ! X =   657.7000,   6084.800,    497.882,    0 !   !END!  GR_M2525
DSC2582 ! X =   657.8000,   6084.800,    507.843,    0 !   !END!  GR_M2526
DSC2583 ! X =   657.9000,   6084.800,    516.336,    0 !   !END!  GR_M2527
DSC2584 ! X =   658.0000,   6084.800,    529.086,    0 !   !END!  GR_M2528
DSC2585 ! X =   658.1000,   6084.800,    535.000,    0 !   !END!  GR_M2529
DSC2586 ! X =   658.2000,   6084.800,    534.155,    0 !   !END!  GR_M2530
DSC2587 ! X =   658.3000,   6084.800,    532.538,    0 !   !END!  GR_M2531
DSC2588 ! X =   658.4000,   6084.800,    526.915,    0 !   !END!  GR_M2532
DSC2589 ! X =   658.5000,   6084.800,    525.395,    0 !   !END!  GR_M2533
DSC2590 ! X =   658.6000,   6084.800,    517.386,    0 !   !END!  GR_M2534
DSC2591 ! X =   658.7000,   6084.800,    514.560,    0 !   !END!  GR_M2535
DSC2592 ! X =   658.8000,   6084.800,    503.923,    0 !   !END!  GR_M2536
DSC2593 ! X =   657.4000,   6084.900,    486.842,    0 !   !END!  GR_M2537
DSC2594 ! X =   657.5000,   6084.900,    491.216,    0 !   !END!  GR_M2538
DSC2595 ! X =   657.6000,   6084.900,    494.721,    0 !   !END!  GR_M2539
DSC2596 ! X =   657.7000,   6084.900,    501.257,    0 !   !END!  GR_M2540
DSC2597 ! X =   657.8000,   6084.900,    513.336,    0 !   !END!  GR_M2541
DSC2598 ! X =   657.9000,   6084.900,    525.475,    0 !   !END!  GR_M2542
DSC2599 ! X =   658.0000,   6084.900,    535.277,    0 !   !END!  GR_M2543
DSC2600 ! X =   658.1000,   6084.900,    532.976,    0 !   !END!  GR_M2544
DSC2601 ! X =   658.2000,   6084.900,    529.758,    0 !   !END!  GR_M2545
DSC2602 ! X =   658.3000,   6084.900,    524.970,    0 !   !END!  GR_M2546
DSC2603 ! X =   658.4000,   6084.900,    524.853,    0 !   !END!  GR_M2547
DSC2604 ! X =   658.5000,   6084.900,    524.098,    0 !   !END!  GR_M2548
DSC2605 ! X =   658.6000,   6084.900,    523.909,    0 !   !END!  GR_M2549
DSC2606 ! X =   658.7000,   6084.900,    530.820,    0 !   !END!  GR_M2550
DSC2607 ! X =   658.8000,   6084.900,    523.480,    0 !   !END!  GR_M2551
DSC2608 ! X =   657.4000,   6085.000,    488.013,    0 !   !END!  GR_M2552
DSC2609 ! X =   657.5000,   6085.000,    494.013,    0 !   !END!  GR_M2553
DSC2610 ! X =   657.6000,   6085.000,    498.342,    0 !   !END!  GR_M2554
DSC2611 ! X =   657.7000,   6085.000,    510.325,    0 !   !END!  GR_M2555
DSC2612 ! X =   657.8000,   6085.000,    524.058,    0 !   !END!  GR_M2556
DSC2613 ! X =   657.9000,   6085.000,    532.312,    0 !   !END!  GR_M2557
DSC2614 ! X =   658.0000,   6085.000,    534.333,    0 !   !END!  GR_M2558
DSC2615 ! X =   658.1000,   6085.000,    530.038,    0 !   !END!  GR_M2559
DSC2616 ! X =   658.2000,   6085.000,    527.848,    0 !   !END!  GR_M2560
DSC2617 ! X =   658.3000,   6085.000,    529.624,    0 !   !END!  GR_M2561
DSC2618 ! X =   658.4000,   6085.000,    533.163,    0 !   !END!  GR_M2562
DSC2619 ! X =   658.5000,   6085.000,    534.263,    0 !   !END!  GR_M2563
DSC2620 ! X =   658.6000,   6085.000,    538.432,    0 !   !END!  GR_M2564
DSC2621 ! X =   658.7000,   6085.000,    535.451,    0 !   !END!  GR_M2565
DSC2622 ! X =   658.8000,   6085.000,    538.005,    0 !   !END!  GR_M2566
DSC2623 ! X =   658.4000,   6085.100,    537.506,    0 !   !END!  GR_M2567
DSC2624 ! X =   658.5000,   6085.100,    540.320,    0 !   !END!  GR_M2568
DSC2625 ! X =   658.6000,   6085.100,    544.166,    0 !   !END!  GR_M2569
DSC2626 ! X =   658.7000,   6085.100,    545.032,    0 !   !END!  GR_M2570
DSC2627 ! X =   658.8000,   6085.100,    549.728,    0 !   !END!  GR_M2571
DSC2628 ! X =   658.4000,   6085.200,    542.075,    0 !   !END!  GR_M2572
DSC2629 ! X =   658.5000,   6085.200,    544.405,    0 !   !END!  GR_M2573
DSC2630 ! X =   658.6000,   6085.200,    548.118,    0 !   !END!  GR_M2574
DSC2631 ! X =   658.7000,   6085.200,    550.235,    0 !   !END!  GR_M2575
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DSC2632 ! X =   658.8000,   6085.200,    553.000,    0 !   !END!  GR_M2576
DSC2633 ! X =   658.4000,   6085.300,    546.090,    0 !   !END!  GR_M2577
DSC2634 ! X =   658.5000,   6085.300,    547.941,    0 !   !END!  GR_M2578
DSC2635 ! X =   658.6000,   6085.300,    549.896,    0 !   !END!  GR_M2579
DSC2636 ! X =   658.7000,   6085.300,    550.000,    0 !   !END!  GR_M2580
DSC2637 ! X =   658.8000,   6085.300,    550.056,    0 !   !END!  GR_M2581
DSC2638 ! X =   656.8000,   6085.400,    481.834,    0 !   !END!  GR_M2582
DSC2639 ! X =   656.9000,   6085.400,    479.107,    0 !   !END!  GR_M2583
DSC2640 ! X =   657.0000,   6085.400,    477.000,    0 !   !END!  GR_M2584
DSC2641 ! X =   657.1000,   6085.400,    479.634,    0 !   !END!  GR_M2585
DSC2642 ! X =   656.8000,   6085.500,    479.870,    0 !   !END!  GR_M2586
DSC2643 ! X =   656.9000,   6085.500,    477.000,    0 !   !END!  GR_M2587
DSC2644 ! X =   657.0000,   6085.500,    477.000,    0 !   !END!  GR_M2588
DSC2645 ! X =   657.1000,   6085.500,    480.000,    0 !   !END!  GR_M2589
DSC2646 ! X =   656.8000,   6085.600,    477.560,    0 !   !END!  GR_M2590
DSC2647 ! X =   656.9000,   6085.600,    475.000,    0 !   !END!  GR_M2591
DSC2648 ! X =   657.0000,   6085.600,    477.000,    0 !   !END!  GR_M2592
DSC2649 ! X =   657.1000,   6085.600,    481.000,    0 !   !END!  GR_M2593
DSC2650 ! X =   656.8000,   6085.700,    475.250,    0 !   !END!  GR_M2594
DSC2651 ! X =   656.9000,   6085.700,    474.000,    0 !   !END!  GR_M2595
DSC2652 ! X =   657.0000,   6085.700,    477.000,    0 !   !END!  GR_M2596
DSC2653 ! X =   657.1000,   6085.700,    481.591,    0 !   !END!  GR_M2597
DSC2654 ! X =   656.8000,   6085.800,    472.939,    0 !   !END!  GR_M2598
DSC2655 ! X =   656.9000,   6085.800,    472.749,    0 !   !END!  GR_M2599
DSC2656 ! X =   657.0000,   6085.800,    477.202,    0 !   !END!  GR_M2600
DSC2657 ! X =   657.1000,   6085.800,    482.415,    0 !   !END!  GR_M2601
DSC2658 ! X =   656.8000,   6085.900,    471.000,    0 !   !END!  GR_M2602
DSC2659 ! X =   656.9000,   6085.900,    473.000,    0 !   !END!  GR_M2603
DSC2660 ! X =   657.0000,   6085.900,    477.429,    0 !   !END!  GR_M2604
DSC2661 ! X =   657.1000,   6085.900,    481.944,    0 !   !END!  GR_M2605
DSC2662 ! X =   656.8000,   6086.000,    471.000,    0 !   !END!  GR_M2606
DSC2663 ! X =   656.9000,   6086.000,    473.116,    0 !   !END!  GR_M2607
DSC2664 ! X =   657.0000,   6086.000,    475.896,    0 !   !END!  GR_M2608
DSC2665 ! X =   657.1000,   6086.000,    480.820,    0 !   !END!  GR_M2609
DSC2666 ! X =   656.8000,   6086.100,    470.000,    0 !   !END!  GR_M2610
DSC2667 ! X =   656.9000,   6086.100,    472.000,    0 !   !END!  GR_M2611
DSC2668 ! X =   657.0000,   6086.100,    473.989,    0 !   !END!  GR_M2612
DSC2669 ! X =   657.1000,   6086.100,    479.215,    0 !   !END!  GR_M2613
DSC2670 ! X =   656.8000,   6086.200,    469.205,    0 !   !END!  GR_M2614
DSC2671 ! X =   656.9000,   6086.200,    470.966,    0 !   !END!  GR_M2615
DSC2672 ! X =   657.0000,   6086.200,    472.001,    0 !   !END!  GR_M2616
DSC2673 ! X =   657.1000,   6086.200,    478.726,    0 !   !END!  GR_M2617
DSC2674 ! X =   656.8000,   6086.300,    469.000,    0 !   !END!  GR_M2618
DSC2675 ! X =   656.9000,   6086.300,    470.000,    0 !   !END!  GR_M2619
DSC2676 ! X =   657.0000,   6086.300,    472.000,    0 !   !END!  GR_M2620
DSC2677 ! X =   657.1000,   6086.300,    477.986,    0 !   !END!  GR_M2621
DSC2678 ! X =   656.8000,   6086.400,    469.000,    0 !   !END!  GR_M2622
DSC2679 ! X =   656.9000,   6086.400,    469.000,    0 !   !END!  GR_M2623
DSC2680 ! X =   657.0000,   6086.400,    470.771,    0 !   !END!  GR_M2624
DSC2681 ! X =   657.1000,   6086.400,    478.499,    0 !   !END!  GR_M2625
DSC2682 ! X =   656.8000,   6086.500,    468.000,    0 !   !END!  GR_M2626
DSC2683 ! X =   656.9000,   6086.500,    468.925,    0 !   !END!  GR_M2627
DSC2684 ! X =   657.0000,   6086.500,    470.030,    0 !   !END!  GR_M2628
DSC2685 ! X =   657.1000,   6086.500,    479.397,    0 !   !END!  GR_M2629
DSC2686 ! X =   656.8000,   6086.600,    468.000,    0 !   !END!  GR_M2630
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DSC2687 ! X =   656.9000,   6086.600,    468.000,    0 !   !END!  GR_M2631
DSC2688 ! X =   657.0000,   6086.600,    469.589,    0 !   !END!  GR_M2632
DSC2689 ! X =   657.1000,   6086.600,    480.546,    0 !   !END!  GR_M2633
DSC2690 ! X =   655.8000,   6083.800,    486.531,    0 !   !END!  GR_M2634
DSC2691 ! X =   655.9000,   6083.800,    478.808,    0 !   !END!  GR_M2635
DSC2692 ! X =   656.0000,   6083.800,    469.430,    0 !   !END!  GR_M2636
DSC2693 ! X =   656.1000,   6083.800,    468.000,    0 !   !END!  GR_M2637
DSC2694 ! X =   656.2000,   6083.800,    468.000,    0 !   !END!  GR_M2638
DSC2695 ! X =   656.3000,   6083.800,    468.000,    0 !   !END!  GR_M2639
DSC2696 ! X =   656.4000,   6083.800,    468.000,    0 !   !END!  GR_M2640
DSC2697 ! X =   656.5000,   6083.800,    468.000,    0 !   !END!  GR_M2641
DSC2698 ! X =   656.6000,   6083.800,    468.000,    0 !   !END!  GR_M2642
DSC2699 ! X =   656.7000,   6083.800,    468.000,    0 !   !END!  GR_M2643
DSC2700 ! X =   656.8000,   6083.800,    468.000,    0 !   !END!  GR_M2644
DSC2701 ! X =   655.8000,   6083.900,    479.104,    0 !   !END!  GR_M2645
DSC2702 ! X =   655.9000,   6083.900,    471.454,    0 !   !END!  GR_M2646
DSC2703 ! X =   656.0000,   6083.900,    468.000,    0 !   !END!  GR_M2647
DSC2704 ! X =   656.1000,   6083.900,    468.000,    0 !   !END!  GR_M2648
DSC2705 ! X =   656.2000,   6083.900,    468.000,    0 !   !END!  GR_M2649
DSC2706 ! X =   656.3000,   6083.900,    468.000,    0 !   !END!  GR_M2650
DSC2707 ! X =   656.4000,   6083.900,    468.000,    0 !   !END!  GR_M2651
DSC2708 ! X =   656.5000,   6083.900,    468.000,    0 !   !END!  GR_M2652
DSC2709 ! X =   656.6000,   6083.900,    468.000,    0 !   !END!  GR_M2653
DSC2710 ! X =   656.7000,   6083.900,    468.000,    0 !   !END!  GR_M2654
DSC2711 ! X =   656.8000,   6083.900,    468.000,    0 !   !END!  GR_M2655
DSC2712 ! X =   655.8000,   6084.000,    472.402,    0 !   !END!  GR_M2656
DSC2713 ! X =   655.9000,   6084.000,    468.000,    0 !   !END!  GR_M2657
DSC2714 ! X =   656.0000,   6084.000,    468.000,    0 !   !END!  GR_M2658
DSC2715 ! X =   656.1000,   6084.000,    468.000,    0 !   !END!  GR_M2659
DSC2716 ! X =   656.2000,   6084.000,    468.000,    0 !   !END!  GR_M2660
DSC2717 ! X =   656.3000,   6084.000,    468.000,    0 !   !END!  GR_M2661
DSC2718 ! X =   656.4000,   6084.000,    468.000,    0 !   !END!  GR_M2662
DSC2719 ! X =   656.5000,   6084.000,    468.000,    0 !   !END!  GR_M2663
DSC2720 ! X =   656.6000,   6084.000,    468.000,    0 !   !END!  GR_M2664
DSC2721 ! X =   656.7000,   6084.000,    468.000,    0 !   !END!  GR_M2665
DSC2722 ! X =   656.8000,   6084.000,    468.000,    0 !   !END!  GR_M2666
DSC2723 ! X =   655.8000,   6084.100,    468.000,    0 !   !END!  GR_M2667
DSC2724 ! X =   655.9000,   6084.100,    468.000,    0 !   !END!  GR_M2668
DSC2725 ! X =   656.0000,   6084.100,    468.000,    0 !   !END!  GR_M2669
DSC2726 ! X =   656.1000,   6084.100,    468.000,    0 !   !END!  GR_M2670
DSC2727 ! X =   656.2000,   6084.100,    468.000,    0 !   !END!  GR_M2671
DSC2728 ! X =   656.3000,   6084.100,    468.000,    0 !   !END!  GR_M2672
DSC2729 ! X =   656.4000,   6084.100,    468.000,    0 !   !END!  GR_M2673
DSC2730 ! X =   656.5000,   6084.100,    468.000,    0 !   !END!  GR_M2674
DSC2731 ! X =   656.6000,   6084.100,    468.000,    0 !   !END!  GR_M2675
DSC2732 ! X =   656.7000,   6084.100,    468.000,    0 !   !END!  GR_M2676
DSC2733 ! X =   656.8000,   6084.100,    468.000,    0 !   !END!  GR_M2677
DSC2734 ! X =   655.8000,   6084.200,    468.000,    0 !   !END!  GR_M2678
DSC2735 ! X =   655.9000,   6084.200,    468.000,    0 !   !END!  GR_M2679
DSC2736 ! X =   656.0000,   6084.200,    468.000,    0 !   !END!  GR_M2680
DSC2737 ! X =   656.1000,   6084.200,    468.000,    0 !   !END!  GR_M2681
DSC2738 ! X =   656.2000,   6084.200,    468.000,    0 !   !END!  GR_M2682
DSC2739 ! X =   656.3000,   6084.200,    468.000,    0 !   !END!  GR_M2683
DSC2740 ! X =   656.4000,   6084.200,    468.000,    0 !   !END!  GR_M2684
DSC2741 ! X =   656.5000,   6084.200,    468.000,    0 !   !END!  GR_M2685
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DSC2742 ! X =   656.6000,   6084.200,    468.000,    0 !   !END!  GR_M2686
DSC2743 ! X =   656.7000,   6084.200,    468.000,    0 !   !END!  GR_M2687
DSC2744 ! X =   656.8000,   6084.200,    468.000,    0 !   !END!  GR_M2688
DSC2745 ! X =   655.8000,   6084.300,    468.000,    0 !   !END!  GR_M2689
DSC2746 ! X =   655.9000,   6084.300,    468.000,    0 !   !END!  GR_M2690
DSC2747 ! X =   656.0000,   6084.300,    468.000,    0 !   !END!  GR_M2691
DSC2748 ! X =   656.1000,   6084.300,    468.000,    0 !   !END!  GR_M2692
DSC2749 ! X =   656.2000,   6084.300,    468.000,    0 !   !END!  GR_M2693
DSC2750 ! X =   655.8000,   6084.400,    468.000,    0 !   !END!  GR_M2694
DSC2751 ! X =   655.9000,   6084.400,    468.000,    0 !   !END!  GR_M2695
DSC2752 ! X =   656.0000,   6084.400,    468.000,    0 !   !END!  GR_M2696
DSC2753 ! X =   656.1000,   6084.400,    468.000,    0 !   !END!  GR_M2697
DSC2754 ! X =   656.2000,   6084.400,    468.000,    0 !   !END!  GR_M2698
DSC2755 ! X =   655.8000,   6084.500,    468.000,    0 !   !END!  GR_M2699
DSC2756 ! X =   655.9000,   6084.500,    468.000,    0 !   !END!  GR_M2700
DSC2757 ! X =   656.0000,   6084.500,    468.000,    0 !   !END!  GR_M2701
DSC2758 ! X =   656.1000,   6084.500,    468.000,    0 !   !END!  GR_M2702
DSC2759 ! X =   656.2000,   6084.500,    468.000,    0 !   !END!  GR_M2703
DSC2760 ! X =   655.8000,   6084.600,    468.000,    0 !   !END!  GR_M2704
DSC2761 ! X =   655.9000,   6084.600,    468.000,    0 !   !END!  GR_M2705
DSC2762 ! X =   656.0000,   6084.600,    468.000,    0 !   !END!  GR_M2706
DSC2763 ! X =   656.1000,   6084.600,    468.000,    0 !   !END!  GR_M2707
DSC2764 ! X =   656.2000,   6084.600,    468.000,    0 !   !END!  GR_M2708
DSC2765 ! X =   655.8000,   6084.700,    468.000,    0 !   !END!  GR_M2709
DSC2766 ! X =   655.9000,   6084.700,    468.000,    0 !   !END!  GR_M2710
DSC2767 ! X =   656.0000,   6084.700,    468.000,    0 !   !END!  GR_M2711
DSC2768 ! X =   656.1000,   6084.700,    468.000,    0 !   !END!  GR_M2712
DSC2769 ! X =   656.2000,   6084.700,    468.000,    0 !   !END!  GR_M2713
DSC2770 ! X =   655.8000,   6084.800,    468.000,    0 !   !END!  GR_M2714
DSC2771 ! X =   655.9000,   6084.800,    468.000,    0 !   !END!  GR_M2715
DSC2772 ! X =   656.0000,   6084.800,    468.000,    0 !   !END!  GR_M2716
DSC2773 ! X =   656.1000,   6084.800,    468.000,    0 !   !END!  GR_M2717
DSC2774 ! X =   656.2000,   6084.800,    468.000,    0 !   !END!  GR_M2718
DSC2775 ! X =   655.8000,   6084.900,    468.000,    0 !   !END!  GR_M2719
DSC2776 ! X =   655.9000,   6084.900,    468.000,    0 !   !END!  GR_M2720
DSC2777 ! X =   656.0000,   6084.900,    468.000,    0 !   !END!  GR_M2721
DSC2778 ! X =   656.1000,   6084.900,    468.000,    0 !   !END!  GR_M2722
DSC2779 ! X =   656.2000,   6084.900,    468.000,    0 !   !END!  GR_M2723
DSC2780 ! X =   655.8000,   6085.000,    468.000,    0 !   !END!  GR_M2724
DSC2781 ! X =   655.9000,   6085.000,    468.000,    0 !   !END!  GR_M2725
DSC2782 ! X =   656.0000,   6085.000,    468.000,    0 !   !END!  GR_M2726
DSC2783 ! X =   656.1000,   6085.000,    468.000,    0 !   !END!  GR_M2727
DSC2784 ! X =   656.2000,   6085.000,    468.437,    0 !   !END!  GR_M2728
DSC2785 ! X =   655.8000,   6085.100,    468.000,    0 !   !END!  GR_M2729
DSC2786 ! X =   655.9000,   6085.100,    468.000,    0 !   !END!  GR_M2730
DSC2787 ! X =   656.0000,   6085.100,    468.000,    0 !   !END!  GR_M2731
DSC2788 ! X =   656.1000,   6085.100,    468.000,    0 !   !END!  GR_M2732
DSC2789 ! X =   656.2000,   6085.100,    471.205,    0 !   !END!  GR_M2733
DSC2790 ! X =   655.8000,   6085.200,    468.000,    0 !   !END!  GR_M2734
DSC2791 ! X =   655.9000,   6085.200,    468.000,    0 !   !END!  GR_M2735
DSC2792 ! X =   656.0000,   6085.200,    468.000,    0 !   !END!  GR_M2736
DSC2793 ! X =   656.1000,   6085.200,    468.000,    0 !   !END!  GR_M2737
DSC2794 ! X =   656.2000,   6085.200,    471.003,    0 !   !END!  GR_M2738
DSC2795 ! X =   655.8000,   6085.300,    468.000,    0 !   !END!  GR_M2739
DSC2796 ! X =   655.9000,   6085.300,    468.000,    0 !   !END!  GR_M2740
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DSC2797 ! X =   656.0000,   6085.300,    468.000,    0 !   !END!  GR_M2741
DSC2798 ! X =   656.1000,   6085.300,    469.025,    0 !   !END!  GR_M2742
DSC2799 ! X =   656.2000,   6085.300,    483.400,    0 !   !END!  GR_M2743
DSC2800 ! X =   655.8000,   6085.400,    468.000,    0 !   !END!  GR_M2744
DSC2801 ! X =   655.9000,   6085.400,    468.000,    0 !   !END!  GR_M2745
DSC2802 ! X =   656.0000,   6085.400,    468.009,    0 !   !END!  GR_M2746
DSC2803 ! X =   656.1000,   6085.400,    480.203,    0 !   !END!  GR_M2747
DSC2804 ! X =   656.2000,   6085.400,    490.247,    0 !   !END!  GR_M2748
DSC2805 ! X =   656.3000,   6085.400,    492.923,    0 !   !END!  GR_M2749
DSC2806 ! X =   656.4000,   6085.400,    491.000,    0 !   !END!  GR_M2750
DSC2807 ! X =   656.5000,   6085.400,    489.000,    0 !   !END!  GR_M2751
DSC2808 ! X =   656.6000,   6085.400,    486.970,    0 !   !END!  GR_M2752
DSC2809 ! X =   656.7000,   6085.400,    485.007,    0 !   !END!  GR_M2753
DSC2810 ! X =   655.8000,   6085.500,    468.000,    0 !   !END!  GR_M2754
DSC2811 ! X =   655.9000,   6085.500,    468.000,    0 !   !END!  GR_M2755
DSC2812 ! X =   656.0000,   6085.500,    476.288,    0 !   !END!  GR_M2756
DSC2813 ! X =   656.1000,   6085.500,    489.159,    0 !   !END!  GR_M2757
DSC2814 ! X =   656.2000,   6085.500,    490.602,    0 !   !END!  GR_M2758
DSC2815 ! X =   656.3000,   6085.500,    492.000,    0 !   !END!  GR_M2759
DSC2816 ! X =   656.4000,   6085.500,    491.000,    0 !   !END!  GR_M2760
DSC2817 ! X =   656.5000,   6085.500,    487.968,    0 !   !END!  GR_M2761
DSC2818 ! X =   656.6000,   6085.500,    484.568,    0 !   !END!  GR_M2762
DSC2819 ! X =   656.7000,   6085.500,    482.011,    0 !   !END!  GR_M2763
DSC2820 ! X =   655.8000,   6085.600,    468.000,    0 !   !END!  GR_M2764
DSC2821 ! X =   655.9000,   6085.600,    476.008,    0 !   !END!  GR_M2765
DSC2822 ! X =   656.0000,   6085.600,    488.189,    0 !   !END!  GR_M2766
DSC2823 ! X =   656.1000,   6085.600,    491.000,    0 !   !END!  GR_M2767
DSC2824 ! X =   656.2000,   6085.600,    490.908,    0 !   !END!  GR_M2768
DSC2825 ! X =   656.3000,   6085.600,    490.806,    0 !   !END!  GR_M2769
DSC2826 ! X =   656.4000,   6085.600,    489.967,    0 !   !END!  GR_M2770
DSC2827 ! X =   656.5000,   6085.600,    487.077,    0 !   !END!  GR_M2771
DSC2828 ! X =   656.6000,   6085.600,    481.488,    0 !   !END!  GR_M2772
DSC2829 ! X =   656.7000,   6085.600,    479.309,    0 !   !END!  GR_M2773
DSC2830 ! X =   655.8000,   6085.700,    470.875,    0 !   !END!  GR_M2774
DSC2831 ! X =   655.9000,   6085.700,    485.509,    0 !   !END!  GR_M2775
DSC2832 ! X =   656.0000,   6085.700,    491.959,    0 !   !END!  GR_M2776
DSC2833 ! X =   656.1000,   6085.700,    491.354,    0 !   !END!  GR_M2777
DSC2834 ! X =   656.2000,   6085.700,    490.000,    0 !   !END!  GR_M2778
DSC2835 ! X =   656.3000,   6085.700,    489.000,    0 !   !END!  GR_M2779
DSC2836 ! X =   656.4000,   6085.700,    487.973,    0 !   !END!  GR_M2780
DSC2837 ! X =   656.5000,   6085.700,    484.243,    0 !   !END!  GR_M2781
DSC2838 ! X =   656.6000,   6085.700,    477.998,    0 !   !END!  GR_M2782
DSC2839 ! X =   656.7000,   6085.700,    476.050,    0 !   !END!  GR_M2783
DSC2840 ! X =   655.8000,   6085.800,    478.067,    0 !   !END!  GR_M2784
DSC2841 ! X =   655.9000,   6085.800,    489.970,    0 !   !END!  GR_M2785
DSC2842 ! X =   656.0000,   6085.800,    492.000,    0 !   !END!  GR_M2786
DSC2843 ! X =   656.1000,   6085.800,    491.000,    0 !   !END!  GR_M2787
DSC2844 ! X =   656.2000,   6085.800,    489.023,    0 !   !END!  GR_M2788
DSC2845 ! X =   656.3000,   6085.800,    487.306,    0 !   !END!  GR_M2789
DSC2846 ! X =   656.4000,   6085.800,    484.339,    0 !   !END!  GR_M2790
DSC2847 ! X =   656.5000,   6085.800,    479.674,    0 !   !END!  GR_M2791
DSC2848 ! X =   656.6000,   6085.800,    474.642,    0 !   !END!  GR_M2792
DSC2849 ! X =   656.7000,   6085.800,    472.790,    0 !   !END!  GR_M2793
DSC2850 ! X =   656.4000,   6083.200,    471.822,    0 !   !END!  GR_M2794
DSC2851 ! X =   656.5000,   6083.200,    468.539,    0 !   !END!  GR_M2795
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DSC2852 ! X =   656.6000,   6083.200,    468.000,    0 !   !END!  GR_M2796
DSC2853 ! X =   656.7000,   6083.200,    468.000,    0 !   !END!  GR_M2797
DSC2854 ! X =   656.8000,   6083.200,    468.000,    0 !   !END!  GR_M2798
DSC2855 ! X =   656.9000,   6083.200,    468.000,    0 !   !END!  GR_M2799
DSC2856 ! X =   657.0000,   6083.200,    468.000,    0 !   !END!  GR_M2800
DSC2857 ! X =   657.1000,   6083.200,    468.000,    0 !   !END!  GR_M2801
DSC2858 ! X =   657.2000,   6083.200,    468.000,    0 !   !END!  GR_M2802
DSC2859 ! X =   657.3000,   6083.200,    468.000,    0 !   !END!  GR_M2803
DSC2860 ! X =   657.4000,   6083.200,    468.000,    0 !   !END!  GR_M2804
DSC2861 ! X =   657.5000,   6083.200,    468.000,    0 !   !END!  GR_M2805
DSC2862 ! X =   657.6000,   6083.200,    468.000,    0 !   !END!  GR_M2806
DSC2863 ! X =   657.7000,   6083.200,    468.000,    0 !   !END!  GR_M2807
DSC2864 ! X =   657.8000,   6083.200,    468.000,    0 !   !END!  GR_M2808
DSC2865 ! X =   657.9000,   6083.200,    470.689,    0 !   !END!  GR_M2809
DSC2866 ! X =   658.0000,   6083.200,    476.331,    0 !   !END!  GR_M2810
DSC2867 ! X =   658.1000,   6083.200,    482.651,    0 !   !END!  GR_M2811
DSC2868 ! X =   658.2000,   6083.200,    490.963,    0 !   !END!  GR_M2812
DSC2869 ! X =   658.3000,   6083.200,    495.488,    0 !   !END!  GR_M2813
DSC2870 ! X =   658.4000,   6083.200,    496.206,    0 !   !END!  GR_M2814
DSC2871 ! X =   656.4000,   6083.300,    469.000,    0 !   !END!  GR_M2815
DSC2872 ! X =   656.5000,   6083.300,    468.000,    0 !   !END!  GR_M2816
DSC2873 ! X =   656.6000,   6083.300,    468.000,    0 !   !END!  GR_M2817
DSC2874 ! X =   656.7000,   6083.300,    468.000,    0 !   !END!  GR_M2818
DSC2875 ! X =   656.8000,   6083.300,    468.000,    0 !   !END!  GR_M2819
DSC2876 ! X =   656.9000,   6083.300,    468.000,    0 !   !END!  GR_M2820
DSC2877 ! X =   657.0000,   6083.300,    468.000,    0 !   !END!  GR_M2821
DSC2878 ! X =   657.1000,   6083.300,    468.000,    0 !   !END!  GR_M2822
DSC2879 ! X =   657.2000,   6083.300,    468.000,    0 !   !END!  GR_M2823
DSC2880 ! X =   657.3000,   6083.300,    468.000,    0 !   !END!  GR_M2824
DSC2881 ! X =   657.4000,   6083.300,    468.000,    0 !   !END!  GR_M2825
DSC2882 ! X =   657.5000,   6083.300,    468.000,    0 !   !END!  GR_M2826
DSC2883 ! X =   657.6000,   6083.300,    468.000,    0 !   !END!  GR_M2827
DSC2884 ! X =   657.7000,   6083.300,    468.000,    0 !   !END!  GR_M2828
DSC2885 ! X =   657.8000,   6083.300,    471.493,    0 !   !END!  GR_M2829
DSC2886 ! X =   657.9000,   6083.300,    476.586,    0 !   !END!  GR_M2830
DSC2887 ! X =   658.0000,   6083.300,    480.701,    0 !   !END!  GR_M2831
DSC2888 ! X =   658.1000,   6083.300,    487.536,    0 !   !END!  GR_M2832
DSC2889 ! X =   658.2000,   6083.300,    496.546,    0 !   !END!  GR_M2833
DSC2890 ! X =   658.3000,   6083.300,    502.040,    0 !   !END!  GR_M2834
DSC2891 ! X =   658.4000,   6083.300,    501.190,    0 !   !END!  GR_M2835
DSC2892 ! X =   656.4000,   6083.400,    468.000,    0 !   !END!  GR_M2836
DSC2893 ! X =   656.5000,   6083.400,    468.000,    0 !   !END!  GR_M2837
DSC2894 ! X =   656.6000,   6083.400,    468.000,    0 !   !END!  GR_M2838
DSC2895 ! X =   656.7000,   6083.400,    468.000,    0 !   !END!  GR_M2839
DSC2896 ! X =   656.8000,   6083.400,    468.000,    0 !   !END!  GR_M2840
DSC2897 ! X =   656.9000,   6083.400,    468.000,    0 !   !END!  GR_M2841
DSC2898 ! X =   657.0000,   6083.400,    468.000,    0 !   !END!  GR_M2842
DSC2899 ! X =   657.1000,   6083.400,    468.000,    0 !   !END!  GR_M2843
DSC2900 ! X =   657.2000,   6083.400,    468.000,    0 !   !END!  GR_M2844
DSC2901 ! X =   657.3000,   6083.400,    468.000,    0 !   !END!  GR_M2845
DSC2902 ! X =   657.4000,   6083.400,    468.000,    0 !   !END!  GR_M2846
DSC2903 ! X =   657.5000,   6083.400,    468.000,    0 !   !END!  GR_M2847
DSC2904 ! X =   657.6000,   6083.400,    468.000,    0 !   !END!  GR_M2848
DSC2905 ! X =   657.7000,   6083.400,    469.674,    0 !   !END!  GR_M2849
DSC2906 ! X =   657.8000,   6083.400,    476.830,    0 !   !END!  GR_M2850
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DSC2907 ! X =   657.9000,   6083.400,    480.975,    0 !   !END!  GR_M2851
DSC2908 ! X =   658.0000,   6083.400,    484.816,    0 !   !END!  GR_M2852
DSC2909 ! X =   658.1000,   6083.400,    496.458,    0 !   !END!  GR_M2853
DSC2910 ! X =   658.2000,   6083.400,    501.809,    0 !   !END!  GR_M2854
DSC2911 ! X =   658.3000,   6083.400,    504.331,    0 !   !END!  GR_M2855
DSC2912 ! X =   658.4000,   6083.400,    503.648,    0 !   !END!  GR_M2856
DSC2913 ! X =   656.4000,   6083.500,    468.000,    0 !   !END!  GR_M2857
DSC2914 ! X =   656.5000,   6083.500,    468.000,    0 !   !END!  GR_M2858
DSC2915 ! X =   656.6000,   6083.500,    468.000,    0 !   !END!  GR_M2859
DSC2916 ! X =   656.7000,   6083.500,    468.000,    0 !   !END!  GR_M2860
DSC2917 ! X =   656.8000,   6083.500,    468.000,    0 !   !END!  GR_M2861
DSC2918 ! X =   656.9000,   6083.500,    468.000,    0 !   !END!  GR_M2862
DSC2919 ! X =   657.0000,   6083.500,    468.000,    0 !   !END!  GR_M2863
DSC2920 ! X =   657.1000,   6083.500,    468.000,    0 !   !END!  GR_M2864
DSC2921 ! X =   657.2000,   6083.500,    468.000,    0 !   !END!  GR_M2865
DSC2922 ! X =   657.3000,   6083.500,    468.000,    0 !   !END!  GR_M2866
DSC2923 ! X =   657.4000,   6083.500,    468.000,    0 !   !END!  GR_M2867
DSC2924 ! X =   657.5000,   6083.500,    468.000,    0 !   !END!  GR_M2868
DSC2925 ! X =   657.6000,   6083.500,    469.520,    0 !   !END!  GR_M2869
DSC2926 ! X =   657.7000,   6083.500,    477.085,    0 !   !END!  GR_M2870
DSC2927 ! X =   657.8000,   6083.500,    480.429,    0 !   !END!  GR_M2871
DSC2928 ! X =   657.9000,   6083.500,    485.275,    0 !   !END!  GR_M2872
DSC2929 ! X =   658.0000,   6083.500,    492.099,    0 !   !END!  GR_M2873
DSC2930 ! X =   658.1000,   6083.500,    503.973,    0 !   !END!  GR_M2874
DSC2931 ! X =   658.2000,   6083.500,    504.717,    0 !   !END!  GR_M2875
DSC2932 ! X =   658.3000,   6083.500,    505.670,    0 !   !END!  GR_M2876
DSC2933 ! X =   658.4000,   6083.500,    505.517,    0 !   !END!  GR_M2877
DSC2934 ! X =   656.4000,   6083.600,    468.000,    0 !   !END!  GR_M2878
DSC2935 ! X =   656.5000,   6083.600,    468.000,    0 !   !END!  GR_M2879
DSC2936 ! X =   656.6000,   6083.600,    468.000,    0 !   !END!  GR_M2880
DSC2937 ! X =   656.7000,   6083.600,    468.000,    0 !   !END!  GR_M2881
DSC2938 ! X =   656.8000,   6083.600,    468.000,    0 !   !END!  GR_M2882
DSC2939 ! X =   656.9000,   6083.600,    468.000,    0 !   !END!  GR_M2883
DSC2940 ! X =   657.0000,   6083.600,    468.000,    0 !   !END!  GR_M2884
DSC2941 ! X =   657.1000,   6083.600,    468.000,    0 !   !END!  GR_M2885
DSC2942 ! X =   657.2000,   6083.600,    468.000,    0 !   !END!  GR_M2886
DSC2943 ! X =   657.3000,   6083.600,    468.000,    0 !   !END!  GR_M2887
DSC2944 ! X =   657.4000,   6083.600,    468.000,    0 !   !END!  GR_M2888
DSC2945 ! X =   657.5000,   6083.600,    468.468,    0 !   !END!  GR_M2889
DSC2946 ! X =   657.6000,   6083.600,    475.376,    0 !   !END!  GR_M2890
DSC2947 ! X =   657.7000,   6083.600,    481.654,    0 !   !END!  GR_M2891
DSC2948 ! X =   657.8000,   6083.600,    485.739,    0 !   !END!  GR_M2892
DSC2949 ! X =   657.9000,   6083.600,    490.003,    0 !   !END!  GR_M2893
DSC2950 ! X =   658.0000,   6083.600,    497.729,    0 !   !END!  GR_M2894
DSC2951 ! X =   658.1000,   6083.600,    503.187,    0 !   !END!  GR_M2895
DSC2952 ! X =   658.2000,   6083.600,    506.000,    0 !   !END!  GR_M2896
DSC2953 ! X =   658.3000,   6083.600,    507.000,    0 !   !END!  GR_M2897
DSC2954 ! X =   658.4000,   6083.600,    507.000,    0 !   !END!  GR_M2898
DSC2955 ! X =   656.4000,   6083.700,    468.000,    0 !   !END!  GR_M2899
DSC2956 ! X =   656.5000,   6083.700,    468.000,    0 !   !END!  GR_M2900
DSC2957 ! X =   656.6000,   6083.700,    468.000,    0 !   !END!  GR_M2901
DSC2958 ! X =   656.7000,   6083.700,    468.000,    0 !   !END!  GR_M2902
DSC2959 ! X =   656.8000,   6083.700,    468.000,    0 !   !END!  GR_M2903
DSC2960 ! X =   658.0000,   6083.700,    501.860,    0 !   !END!  GR_M2904
DSC2961 ! X =   658.1000,   6083.700,    505.000,    0 !   !END!  GR_M2905
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DSC2962 ! X =   658.2000,   6083.700,    507.000,    0 !   !END!  GR_M2906
DSC2963 ! X =   658.3000,   6083.700,    508.291,    0 !   !END!  GR_M2907
DSC2964 ! X =   658.4000,   6083.700,    508.091,    0 !   !END!  GR_M2908
DSC2965 ! X =   658.0000,   6083.800,    504.000,    0 !   !END!  GR_M2909
DSC2966 ! X =   658.1000,   6083.800,    506.000,    0 !   !END!  GR_M2910
DSC2967 ! X =   658.2000,   6083.800,    507.658,    0 !   !END!  GR_M2911
DSC2968 ! X =   658.3000,   6083.800,    509.654,    0 !   !END!  GR_M2912
DSC2969 ! X =   658.4000,   6083.800,    509.666,    0 !   !END!  GR_M2913
DSC2970 ! X =   658.0000,   6083.900,    504.000,    0 !   !END!  GR_M2914
DSC2971 ! X =   658.1000,   6083.900,    505.000,    0 !   !END!  GR_M2915
DSC2972 ! X =   658.2000,   6083.900,    506.866,    0 !   !END!  GR_M2916
DSC2973 ! X =   658.3000,   6083.900,    510.000,    0 !   !END!  GR_M2917
DSC2974 ! X =   658.4000,   6083.900,    511.000,    0 !   !END!  GR_M2918
DSC2975 ! X =   658.0000,   6084.000,    503.000,    0 !   !END!  GR_M2919
DSC2976 ! X =   658.1000,   6084.000,    503.000,    0 !   !END!  GR_M2920
DSC2977 ! X =   658.2000,   6084.000,    504.814,    0 !   !END!  GR_M2921
DSC2978 ! X =   658.3000,   6084.000,    510.659,    0 !   !END!  GR_M2922
DSC2979 ! X =   658.4000,   6084.000,    513.000,    0 !   !END!  GR_M2923
DSC2980 ! X =   658.0000,   6084.100,    501.000,    0 !   !END!  GR_M2924
DSC2981 ! X =   658.1000,   6084.100,    501.166,    0 !   !END!  GR_M2925
DSC2982 ! X =   658.2000,   6084.100,    503.450,    0 !   !END!  GR_M2926
DSC2983 ! X =   658.3000,   6084.100,    510.923,    0 !   !END!  GR_M2927
DSC2984 ! X =   658.4000,   6084.100,    515.000,    0 !   !END!  GR_M2928
DSC2985 ! X =   658.0000,   6084.200,    499.000,    0 !   !END!  GR_M2929
DSC2986 ! X =   658.1000,   6084.200,    503.034,    0 !   !END!  GR_M2930
DSC2987 ! X =   658.2000,   6084.200,    506.701,    0 !   !END!  GR_M2931
DSC2988 ! X =   658.3000,   6084.200,    512.026,    0 !   !END!  GR_M2932
DSC2989 ! X =   658.4000,   6084.200,    518.346,    0 !   !END!  GR_M2933
DSC2990 ! X =   658.0000,   6084.300,    499.615,    0 !   !END!  GR_M2934
DSC2991 ! X =   658.1000,   6084.300,    503.499,    0 !   !END!  GR_M2935
DSC2992 ! X =   658.2000,   6084.300,    510.275,    0 !   !END!  GR_M2936
DSC2993 ! X =   658.3000,   6084.300,    515.600,    0 !   !END!  GR_M2937
DSC2994 ! X =   658.4000,   6084.300,    530.835,    0 !   !END!  GR_M2938
DSC2995 ! X =   658.0000,   6084.400,    501.264,    0 !   !END!  GR_M2939
DSC2996 ! X =   658.1000,   6084.400,    506.525,    0 !   !END!  GR_M2940
DSC2997 ! X =   658.2000,   6084.400,    514.144,    0 !   !END!  GR_M2941
DSC2998 ! X =   658.3000,   6084.400,    523.794,    0 !   !END!  GR_M2942
DSC2999 ! X =   658.4000,   6084.400,    536.494,    0 !   !END!  GR_M2943
DSC3000 ! X =   658.0000,   6084.500,    503.554,    0 !   !END!  GR_M2944
DSC3001 ! X =   658.1000,   6084.500,    513.101,    0 !   !END!  GR_M2945
DSC3002 ! X =   658.2000,   6084.500,    521.256,    0 !   !END!  GR_M2946
DSC3003 ! X =   658.3000,   6084.500,    534.744,    0 !   !END!  GR_M2947
DSC3004 ! X =   658.4000,   6084.500,    539.790,    0 !   !END!  GR_M2948
DSC3005 ! X =   659.4000,   6085.800,    506.410,    0 !   !END!  GR_M2949
DSC3006 ! X =   659.6000,   6085.800,    519.000,    0 !   !END!  GR_M2950
DSC3007 ! X =   659.8000,   6085.800,    522.000,    0 !   !END!  GR_M2951
DSC3008 ! X =   655.8000,   6086.000,    488.178,    0 !   !END!  GR_M2952
DSC3009 ! X =   656.0000,   6086.000,    489.166,    0 !   !END!  GR_M2953
DSC3010 ! X =   656.2000,   6086.000,    486.041,    0 !   !END!  GR_M2954
DSC3011 ! X =   656.4000,   6086.000,    477.758,    0 !   !END!  GR_M2955
DSC3012 ! X =   656.6000,   6086.000,    471.000,    0 !   !END!  GR_M2956
DSC3013 ! X =   659.4000,   6086.000,    522.000,    0 !   !END!  GR_M2957
DSC3014 ! X =   659.6000,   6086.000,    520.000,    0 !   !END!  GR_M2958
DSC3015 ! X =   659.8000,   6086.000,    498.350,    0 !   !END!  GR_M2959
DSC3016 ! X =   655.8000,   6086.200,    488.590,    0 !   !END!  GR_M2960
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DSC3017 ! X =   656.0000,   6086.200,    486.000,    0 !   !END!  GR_M2961
DSC3018 ! X =   656.2000,   6086.200,    480.460,    0 !   !END!  GR_M2962
DSC3019 ! X =   656.4000,   6086.200,    472.661,    0 !   !END!  GR_M2963
DSC3020 ! X =   656.6000,   6086.200,    469.000,    0 !   !END!  GR_M2964
DSC3021 ! X =   659.4000,   6086.200,    522.000,    0 !   !END!  GR_M2965
DSC3022 ! X =   659.6000,   6086.200,    508.442,    0 !   !END!  GR_M2966
DSC3023 ! X =   659.8000,   6086.200,    474.901,    0 !   !END!  GR_M2967
DSC3024 ! X =   655.8000,   6086.400,    487.000,    0 !   !END!  GR_M2968
DSC3025 ! X =   656.0000,   6086.400,    483.000,    0 !   !END!  GR_M2969
DSC3026 ! X =   656.2000,   6086.400,    476.010,    0 !   !END!  GR_M2970
DSC3027 ! X =   656.4000,   6086.400,    470.000,    0 !   !END!  GR_M2971
DSC3028 ! X =   656.6000,   6086.400,    468.000,    0 !   !END!  GR_M2972
DSC3029 ! X =   659.4000,   6086.400,    495.634,    0 !   !END!  GR_M2973
DSC3030 ! X =   659.6000,   6086.400,    471.469,    0 !   !END!  GR_M2974
DSC3031 ! X =   659.8000,   6086.400,    468.000,    0 !   !END!  GR_M2975
DSC3032 ! X =   655.8000,   6086.600,    485.000,    0 !   !END!  GR_M2976
DSC3033 ! X =   656.0000,   6086.600,    480.626,    0 !   !END!  GR_M2977
DSC3034 ! X =   656.2000,   6086.600,    473.538,    0 !   !END!  GR_M2978
DSC3035 ! X =   656.4000,   6086.600,    469.000,    0 !   !END!  GR_M2979
DSC3036 ! X =   656.6000,   6086.600,    468.000,    0 !   !END!  GR_M2980
DSC3037 ! X =   659.4000,   6086.600,    473.363,    0 !   !END!  GR_M2981
DSC3038 ! X =   659.6000,   6086.600,    468.000,    0 !   !END!  GR_M2982
DSC3039 ! X =   659.8000,   6086.600,    468.000,    0 !   !END!  GR_M2983
DSC3040 ! X =   655.8000,   6086.800,    482.319,    0 !   !END!  GR_M2984
DSC3041 ! X =   656.0000,   6086.800,    477.626,    0 !   !END!  GR_M2985
DSC3042 ! X =   656.2000,   6086.800,    473.943,    0 !   !END!  GR_M2986
DSC3043 ! X =   656.4000,   6086.800,    468.000,    0 !   !END!  GR_M2987
DSC3044 ! X =   656.6000,   6086.800,    468.000,    0 !   !END!  GR_M2988
DSC3045 ! X =   659.4000,   6086.800,    468.000,    0 !   !END!  GR_M2989
DSC3046 ! X =   659.6000,   6086.800,    468.000,    0 !   !END!  GR_M2990
DSC3047 ! X =   659.8000,   6086.800,    468.000,    0 !   !END!  GR_M2991
DSC3048 ! X =   655.8000,   6087.000,    479.296,    0 !   !END!  GR_M2992
DSC3049 ! X =   656.0000,   6087.000,    475.453,    0 !   !END!  GR_M2993
DSC3050 ! X =   656.2000,   6087.000,    468.000,    0 !   !END!  GR_M2994
DSC3051 ! X =   656.4000,   6087.000,    468.000,    0 !   !END!  GR_M2995
DSC3052 ! X =   656.6000,   6087.000,    468.000,    0 !   !END!  GR_M2996
DSC3053 ! X =   659.4000,   6087.000,    468.000,    0 !   !END!  GR_M2997
DSC3054 ! X =   659.6000,   6087.000,    468.000,    0 !   !END!  GR_M2998
DSC3055 ! X =   659.8000,   6087.000,    468.000,    0 !   !END!  GR_M2999
DSC3056 ! X =   655.8000,   6087.200,    476.000,    0 !   !END!  GR_M3000
DSC3057 ! X =   656.0000,   6087.200,    469.741,    0 !   !END!  GR_M3001
DSC3058 ! X =   656.2000,   6087.200,    468.000,    0 !   !END!  GR_M3002
DSC3059 ! X =   656.4000,   6087.200,    468.000,    0 !   !END!  GR_M3003
DSC3060 ! X =   656.6000,   6087.200,    468.000,    0 !   !END!  GR_M3004
DSC3061 ! X =   659.4000,   6087.200,    468.000,    0 !   !END!  GR_M3005
DSC3062 ! X =   659.6000,   6087.200,    468.000,    0 !   !END!  GR_M3006
DSC3063 ! X =   659.8000,   6087.200,    468.000,    0 !   !END!  GR_M3007
DSC3064 ! X =   655.8000,   6087.400,    470.970,    0 !   !END!  GR_M3008
DSC3065 ! X =   656.0000,   6087.400,    468.000,    0 !   !END!  GR_M3009
DSC3066 ! X =   656.2000,   6087.400,    468.000,    0 !   !END!  GR_M3010
DSC3067 ! X =   656.4000,   6087.400,    468.000,    0 !   !END!  GR_M3011
DSC3068 ! X =   656.6000,   6087.400,    468.000,    0 !   !END!  GR_M3012
DSC3069 ! X =   659.4000,   6087.400,    468.000,    0 !   !END!  GR_M3013
DSC3070 ! X =   659.6000,   6087.400,    468.000,    0 !   !END!  GR_M3014
DSC3071 ! X =   659.8000,   6087.400,    468.000,    0 !   !END!  GR_M3015
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DSC3072 ! X =   655.8000,   6087.600,    468.000,    0 !   !END!  GR_M3016
DSC3073 ! X =   656.0000,   6087.600,    468.000,    0 !   !END!  GR_M3017
DSC3074 ! X =   656.2000,   6087.600,    468.000,    0 !   !END!  GR_M3018
DSC3075 ! X =   656.4000,   6087.600,    468.000,    0 !   !END!  GR_M3019
DSC3076 ! X =   656.6000,   6087.600,    468.000,    0 !   !END!  GR_M3020
DSC3077 ! X =   659.0000,   6087.600,    468.000,    0 !   !END!  GR_M3021
DSC3078 ! X =   659.2000,   6087.600,    468.000,    0 !   !END!  GR_M3022
DSC3079 ! X =   659.4000,   6087.600,    468.000,    0 !   !END!  GR_M3023
DSC3080 ! X =   659.6000,   6087.600,    468.000,    0 !   !END!  GR_M3024
DSC3081 ! X =   659.8000,   6087.600,    472.329,    0 !   !END!  GR_M3025
DSC3082 ! X =   655.8000,   6087.800,    468.000,    0 !   !END!  GR_M3026
DSC3083 ! X =   656.0000,   6087.800,    468.000,    0 !   !END!  GR_M3027
DSC3084 ! X =   656.2000,   6087.800,    468.000,    0 !   !END!  GR_M3028
DSC3085 ! X =   656.4000,   6087.800,    468.000,    0 !   !END!  GR_M3029
DSC3086 ! X =   656.6000,   6087.800,    468.000,    0 !   !END!  GR_M3030
DSC3087 ! X =   659.0000,   6087.800,    468.000,    0 !   !END!  GR_M3031
DSC3088 ! X =   659.2000,   6087.800,    468.000,    0 !   !END!  GR_M3032
DSC3089 ! X =   659.4000,   6087.800,    468.000,    0 !   !END!  GR_M3033
DSC3090 ! X =   659.6000,   6087.800,    468.000,    0 !   !END!  GR_M3034
DSC3091 ! X =   659.8000,   6087.800,    469.310,    0 !   !END!  GR_M3035
DSC3092 ! X =   655.8000,   6088.000,    468.000,    0 !   !END!  GR_M3036
DSC3093 ! X =   656.0000,   6088.000,    468.000,    0 !   !END!  GR_M3037
DSC3094 ! X =   656.2000,   6088.000,    468.000,    0 !   !END!  GR_M3038
DSC3095 ! X =   656.4000,   6088.000,    468.000,    0 !   !END!  GR_M3039
DSC3096 ! X =   656.6000,   6088.000,    468.000,    0 !   !END!  GR_M3040
DSC3097 ! X =   659.0000,   6088.000,    468.000,    0 !   !END!  GR_M3041
DSC3098 ! X =   659.2000,   6088.000,    468.000,    0 !   !END!  GR_M3042
DSC3099 ! X =   659.4000,   6088.000,    468.000,    0 !   !END!  GR_M3043
DSC3100 ! X =   659.6000,   6088.000,    468.000,    0 !   !END!  GR_M3044
DSC3101 ! X =   659.8000,   6088.000,    468.000,    0 !   !END!  GR_M3045
DSC3102 ! X =   655.8000,   6088.200,    468.000,    0 !   !END!  GR_M3046
DSC3103 ! X =   656.0000,   6088.200,    468.000,    0 !   !END!  GR_M3047
DSC3104 ! X =   656.2000,   6088.200,    468.000,    0 !   !END!  GR_M3048
DSC3105 ! X =   656.4000,   6088.200,    468.000,    0 !   !END!  GR_M3049
DSC3106 ! X =   656.6000,   6088.200,    468.000,    0 !   !END!  GR_M3050
DSC3107 ! X =   659.0000,   6088.200,    468.000,    0 !   !END!  GR_M3051
DSC3108 ! X =   659.2000,   6088.200,    468.000,    0 !   !END!  GR_M3052
DSC3109 ! X =   659.4000,   6088.200,    469.016,    0 !   !END!  GR_M3053
DSC3110 ! X =   659.6000,   6088.200,    469.000,    0 !   !END!  GR_M3054
DSC3111 ! X =   659.8000,   6088.200,    468.000,    0 !   !END!  GR_M3055
DSC3112 ! X =   655.8000,   6088.400,    468.000,    0 !   !END!  GR_M3056
DSC3113 ! X =   656.0000,   6088.400,    468.000,    0 !   !END!  GR_M3057
DSC3114 ! X =   656.2000,   6088.400,    468.000,    0 !   !END!  GR_M3058
DSC3115 ! X =   656.4000,   6088.400,    468.000,    0 !   !END!  GR_M3059
DSC3116 ! X =   656.6000,   6088.400,    470.457,    0 !   !END!  GR_M3060
DSC3117 ! X =   659.0000,   6088.400,    468.000,    0 !   !END!  GR_M3061
DSC3118 ! X =   659.2000,   6088.400,    469.464,    0 !   !END!  GR_M3062
DSC3119 ! X =   659.4000,   6088.400,    471.485,    0 !   !END!  GR_M3063
DSC3120 ! X =   659.6000,   6088.400,    478.017,    0 !   !END!  GR_M3064
DSC3121 ! X =   659.8000,   6088.400,    484.924,    0 !   !END!  GR_M3065
DSC3122 ! X =   655.8000,   6088.600,    468.000,    0 !   !END!  GR_M3066
DSC3123 ! X =   656.0000,   6088.600,    468.000,    0 !   !END!  GR_M3067
DSC3124 ! X =   656.2000,   6088.600,    468.000,    0 !   !END!  GR_M3068
DSC3125 ! X =   656.4000,   6088.600,    468.212,    0 !   !END!  GR_M3069
DSC3126 ! X =   656.6000,   6088.600,    475.000,    0 !   !END!  GR_M3070
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DSC3127 ! X =   659.0000,   6088.600,    477.784,    0 !   !END!  GR_M3071
DSC3128 ! X =   659.2000,   6088.600,    491.085,    0 !   !END!  GR_M3072
DSC3129 ! X =   659.4000,   6088.600,    498.847,    0 !   !END!  GR_M3073
DSC3130 ! X =   659.6000,   6088.600,    505.352,    0 !   !END!  GR_M3074
DSC3131 ! X =   659.8000,   6088.600,    507.653,    0 !   !END!  GR_M3075
DSC3132 ! X =   655.8000,   6088.800,    468.000,    0 !   !END!  GR_M3076
DSC3133 ! X =   656.0000,   6088.800,    468.000,    0 !   !END!  GR_M3077
DSC3134 ! X =   656.2000,   6088.800,    468.000,    0 !   !END!  GR_M3078
DSC3135 ! X =   656.4000,   6088.800,    472.152,    0 !   !END!  GR_M3079
DSC3136 ! X =   656.6000,   6088.800,    474.000,    0 !   !END!  GR_M3080
DSC3137 ! X =   659.0000,   6088.800,    491.710,    0 !   !END!  GR_M3081
DSC3138 ! X =   659.2000,   6088.800,    499.172,    0 !   !END!  GR_M3082
DSC3139 ! X =   659.4000,   6088.800,    520.213,    0 !   !END!  GR_M3083
DSC3140 ! X =   659.6000,   6088.800,    544.388,    0 !   !END!  GR_M3084
DSC3141 ! X =   659.8000,   6088.800,    542.920,    0 !   !END!  GR_M3085
DSC3142 ! X =   655.8000,   6089.000,    468.000,    0 !   !END!  GR_M3086
DSC3143 ! X =   656.0000,   6089.000,    468.000,    0 !   !END!  GR_M3087
DSC3144 ! X =   656.2000,   6089.000,    468.000,    0 !   !END!  GR_M3088
DSC3145 ! X =   656.4000,   6089.000,    468.000,    0 !   !END!  GR_M3089
DSC3146 ! X =   656.6000,   6089.000,    468.000,    0 !   !END!  GR_M3090
DSC3147 ! X =   656.8000,   6089.000,    468.000,    0 !   !END!  GR_M3091
DSC3148 ! X =   657.0000,   6089.000,    468.000,    0 !   !END!  GR_M3092
DSC3149 ! X =   657.2000,   6089.000,    468.000,    0 !   !END!  GR_M3093
DSC3150 ! X =   657.4000,   6089.000,    468.464,    0 !   !END!  GR_M3094
DSC3151 ! X =   657.6000,   6089.000,    468.000,    0 !   !END!  GR_M3095
DSC3152 ! X =   657.8000,   6089.000,    468.000,    0 !   !END!  GR_M3096
DSC3153 ! X =   658.0000,   6089.000,    468.000,    0 !   !END!  GR_M3097
DSC3154 ! X =   658.2000,   6089.000,    468.000,    0 !   !END!  GR_M3098
DSC3155 ! X =   658.4000,   6089.000,    468.000,    0 !   !END!  GR_M3099
DSC3156 ! X =   658.6000,   6089.000,    473.463,    0 !   !END!  GR_M3100
DSC3157 ! X =   658.8000,   6089.000,    487.197,    0 !   !END!  GR_M3101
DSC3158 ! X =   659.0000,   6089.000,    503.856,    0 !   !END!  GR_M3102
DSC3159 ! X =   659.2000,   6089.000,    521.832,    0 !   !END!  GR_M3103
DSC3160 ! X =   659.4000,   6089.000,    541.170,    0 !   !END!  GR_M3104
DSC3161 ! X =   659.6000,   6089.000,    561.829,    0 !   !END!  GR_M3105
DSC3162 ! X =   659.8000,   6089.000,    556.346,    0 !   !END!  GR_M3106
DSC3163 ! X =   655.8000,   6089.200,    468.000,    0 !   !END!  GR_M3107
DSC3164 ! X =   656.0000,   6089.200,    468.000,    0 !   !END!  GR_M3108
DSC3165 ! X =   656.2000,   6089.200,    468.000,    0 !   !END!  GR_M3109
DSC3166 ! X =   656.4000,   6089.200,    468.000,    0 !   !END!  GR_M3110
DSC3167 ! X =   656.6000,   6089.200,    468.000,    0 !   !END!  GR_M3111
DSC3168 ! X =   656.8000,   6089.200,    468.000,    0 !   !END!  GR_M3112
DSC3169 ! X =   657.0000,   6089.200,    468.000,    0 !   !END!  GR_M3113
DSC3170 ! X =   657.2000,   6089.200,    468.000,    0 !   !END!  GR_M3114
DSC3171 ! X =   657.4000,   6089.200,    468.000,    0 !   !END!  GR_M3115
DSC3172 ! X =   657.6000,   6089.200,    468.000,    0 !   !END!  GR_M3116
DSC3173 ! X =   657.8000,   6089.200,    468.000,    0 !   !END!  GR_M3117
DSC3174 ! X =   658.0000,   6089.200,    468.000,    0 !   !END!  GR_M3118
DSC3175 ! X =   658.2000,   6089.200,    468.000,    0 !   !END!  GR_M3119
DSC3176 ! X =   658.4000,   6089.200,    468.000,    0 !   !END!  GR_M3120
DSC3177 ! X =   658.6000,   6089.200,    474.827,    0 !   !END!  GR_M3121
DSC3178 ! X =   658.8000,   6089.200,    490.905,    0 !   !END!  GR_M3122
DSC3179 ! X =   659.0000,   6089.200,    505.755,    0 !   !END!  GR_M3123
DSC3180 ! X =   659.2000,   6089.200,    530.402,    0 !   !END!  GR_M3124
DSC3181 ! X =   659.4000,   6089.200,    553.011,    0 !   !END!  GR_M3125
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DSC3182 ! X =   659.6000,   6089.200,    565.809,    0 !   !END!  GR_M3126
DSC3183 ! X =   659.8000,   6089.200,    540.090,    0 !   !END!  GR_M3127
DSC3184 ! X =   655.8000,   6089.400,    468.000,    0 !   !END!  GR_M3128
DSC3185 ! X =   656.0000,   6089.400,    468.000,    0 !   !END!  GR_M3129
DSC3186 ! X =   656.2000,   6089.400,    468.109,    0 !   !END!  GR_M3130
DSC3187 ! X =   656.4000,   6089.400,    468.222,    0 !   !END!  GR_M3131
DSC3188 ! X =   656.6000,   6089.400,    468.000,    0 !   !END!  GR_M3132
DSC3189 ! X =   656.8000,   6089.400,    468.000,    0 !   !END!  GR_M3133
DSC3190 ! X =   657.0000,   6089.400,    468.000,    0 !   !END!  GR_M3134
DSC3191 ! X =   657.2000,   6089.400,    468.000,    0 !   !END!  GR_M3135
DSC3192 ! X =   657.4000,   6089.400,    468.000,    0 !   !END!  GR_M3136
DSC3193 ! X =   657.6000,   6089.400,    468.000,    0 !   !END!  GR_M3137
DSC3194 ! X =   657.8000,   6089.400,    468.000,    0 !   !END!  GR_M3138
DSC3195 ! X =   658.0000,   6089.400,    468.000,    0 !   !END!  GR_M3139
DSC3196 ! X =   658.2000,   6089.400,    468.000,    0 !   !END!  GR_M3140
DSC3197 ! X =   658.4000,   6089.400,    468.000,    0 !   !END!  GR_M3141
DSC3198 ! X =   658.6000,   6089.400,    471.355,    0 !   !END!  GR_M3142
DSC3199 ! X =   658.8000,   6089.400,    489.322,    0 !   !END!  GR_M3143
DSC3200 ! X =   659.0000,   6089.400,    505.288,    0 !   !END!  GR_M3144
DSC3201 ! X =   659.2000,   6089.400,    536.651,    0 !   !END!  GR_M3145
DSC3202 ! X =   659.4000,   6089.400,    553.523,    0 !   !END!  GR_M3146
DSC3203 ! X =   659.6000,   6089.400,    534.013,    0 !   !END!  GR_M3147
DSC3204 ! X =   659.8000,   6089.400,    516.778,    0 !   !END!  GR_M3148
DSC3205 ! X =   655.8000,   6089.600,    468.000,    0 !   !END!  GR_M3149
DSC3206 ! X =   656.0000,   6089.600,    468.000,    0 !   !END!  GR_M3150
DSC3207 ! X =   656.2000,   6089.600,    469.000,    0 !   !END!  GR_M3151
DSC3208 ! X =   656.4000,   6089.600,    469.000,    0 !   !END!  GR_M3152
DSC3209 ! X =   656.6000,   6089.600,    468.000,    0 !   !END!  GR_M3153
DSC3210 ! X =   656.8000,   6089.600,    468.000,    0 !   !END!  GR_M3154
DSC3211 ! X =   657.0000,   6089.600,    468.000,    0 !   !END!  GR_M3155
DSC3212 ! X =   657.2000,   6089.600,    468.000,    0 !   !END!  GR_M3156
DSC3213 ! X =   657.4000,   6089.600,    468.000,    0 !   !END!  GR_M3157
DSC3214 ! X =   657.6000,   6089.600,    468.000,    0 !   !END!  GR_M3158
DSC3215 ! X =   657.8000,   6089.600,    468.000,    0 !   !END!  GR_M3159
DSC3216 ! X =   658.0000,   6089.600,    468.000,    0 !   !END!  GR_M3160
DSC3217 ! X =   658.2000,   6089.600,    468.000,    0 !   !END!  GR_M3161
DSC3218 ! X =   658.4000,   6089.600,    468.000,    0 !   !END!  GR_M3162
DSC3219 ! X =   658.6000,   6089.600,    470.883,    0 !   !END!  GR_M3163
DSC3220 ! X =   658.8000,   6089.600,    490.520,    0 !   !END!  GR_M3164
DSC3221 ! X =   659.0000,   6089.600,    508.213,    0 !   !END!  GR_M3165
DSC3222 ! X =   659.2000,   6089.600,    537.424,    0 !   !END!  GR_M3166
DSC3223 ! X =   659.4000,   6089.600,    530.635,    0 !   !END!  GR_M3167
DSC3224 ! X =   659.6000,   6089.600,    515.440,    0 !   !END!  GR_M3168
DSC3225 ! X =   659.8000,   6089.600,    493.628,    0 !   !END!  GR_M3169
DSC3226 ! X =   655.8000,   6089.800,    468.000,    0 !   !END!  GR_M3170
DSC3227 ! X =   656.0000,   6089.800,    468.000,    0 !   !END!  GR_M3171
DSC3228 ! X =   656.2000,   6089.800,    468.000,    0 !   !END!  GR_M3172
DSC3229 ! X =   656.4000,   6089.800,    468.000,    0 !   !END!  GR_M3173
DSC3230 ! X =   656.6000,   6089.800,    469.000,    0 !   !END!  GR_M3174
DSC3231 ! X =   656.8000,   6089.800,    468.000,    0 !   !END!  GR_M3175
DSC3232 ! X =   657.0000,   6089.800,    468.000,    0 !   !END!  GR_M3176
DSC3233 ! X =   657.2000,   6089.800,    468.000,    0 !   !END!  GR_M3177
DSC3234 ! X =   657.4000,   6089.800,    468.000,    0 !   !END!  GR_M3178
DSC3235 ! X =   657.6000,   6089.800,    468.000,    0 !   !END!  GR_M3179
DSC3236 ! X =   657.8000,   6089.800,    468.000,    0 !   !END!  GR_M3180
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DSC3237 ! X =   658.0000,   6089.800,    468.000,    0 !   !END!  GR_M3181
DSC3238 ! X =   658.2000,   6089.800,    468.000,    0 !   !END!  GR_M3182
DSC3239 ! X =   658.4000,   6089.800,    468.000,    0 !   !END!  GR_M3183
DSC3240 ! X =   658.6000,   6089.800,    476.549,    0 !   !END!  GR_M3184
DSC3241 ! X =   658.8000,   6089.800,    495.018,    0 !   !END!  GR_M3185
DSC3242 ! X =   659.0000,   6089.800,    512.349,    0 !   !END!  GR_M3186
DSC3243 ! X =   659.2000,   6089.800,    516.148,    0 !   !END!  GR_M3187
DSC3244 ! X =   659.4000,   6089.800,    507.733,    0 !   !END!  GR_M3188
DSC3245 ! X =   659.6000,   6089.800,    494.335,    0 !   !END!  GR_M3189
DSC3246 ! X =   659.8000,   6089.800,    469.122,    0 !   !END!  GR_M3190
DSC3247 ! X =   658.6000,   6084.400,    546.134,    0 !   !END!  GR_M3191
DSC3248 ! X =   658.8000,   6084.400,    525.837,    0 !   !END!  GR_M3192
DSC3249 ! X =   659.0000,   6084.400,    485.354,    0 !   !END!  GR_M3193
DSC3250 ! X =   659.2000,   6084.400,    482.258,    0 !   !END!  GR_M3194
DSC3251 ! X =   659.4000,   6084.400,    493.338,    0 !   !END!  GR_M3195
DSC3252 ! X =   659.6000,   6084.400,    482.056,    0 !   !END!  GR_M3196
DSC3253 ! X =   659.8000,   6084.400,    487.301,    0 !   !END!  GR_M3197
DSC3254 ! X =   660.0000,   6084.400,    504.832,    0 !   !END!  GR_M3198
DSC3255 ! X =   660.2000,   6084.400,    487.593,    0 !   !END!  GR_M3199
DSC3256 ! X =   659.0000,   6084.600,    497.573,    0 !   !END!  GR_M3200
DSC3257 ! X =   659.2000,   6084.600,    514.073,    0 !   !END!  GR_M3201
DSC3258 ! X =   659.4000,   6084.600,    517.013,    0 !   !END!  GR_M3202
DSC3259 ! X =   659.6000,   6084.600,    493.693,    0 !   !END!  GR_M3203
DSC3260 ! X =   659.8000,   6084.600,    502.938,    0 !   !END!  GR_M3204
DSC3261 ! X =   660.0000,   6084.600,    493.938,    0 !   !END!  GR_M3205
DSC3262 ! X =   660.2000,   6084.600,    484.171,    0 !   !END!  GR_M3206
DSC3263 ! X =   659.0000,   6084.800,    515.048,    0 !   !END!  GR_M3207
DSC3264 ! X =   659.2000,   6084.800,    533.620,    0 !   !END!  GR_M3208
DSC3265 ! X =   659.4000,   6084.800,    507.042,    0 !   !END!  GR_M3209
DSC3266 ! X =   659.6000,   6084.800,    501.286,    0 !   !END!  GR_M3210
DSC3267 ! X =   659.8000,   6084.800,    503.691,    0 !   !END!  GR_M3211
DSC3268 ! X =   660.0000,   6084.800,    487.099,    0 !   !END!  GR_M3212
DSC3269 ! X =   660.2000,   6084.800,    494.382,    0 !   !END!  GR_M3213
DSC3270 ! X =   659.0000,   6085.000,    551.376,    0 !   !END!  GR_M3214
DSC3271 ! X =   659.2000,   6085.000,    515.960,    0 !   !END!  GR_M3215
DSC3272 ! X =   659.4000,   6085.000,    502.835,    0 !   !END!  GR_M3216
DSC3273 ! X =   659.6000,   6085.000,    500.703,    0 !   !END!  GR_M3217
DSC3274 ! X =   659.8000,   6085.000,    488.022,    0 !   !END!  GR_M3218
DSC3275 ! X =   660.0000,   6085.000,    495.094,    0 !   !END!  GR_M3219
DSC3276 ! X =   660.2000,   6085.000,    514.408,    0 !   !END!  GR_M3220
DSC3277 ! X =   659.0000,   6085.200,    531.962,    0 !   !END!  GR_M3221
DSC3278 ! X =   659.2000,   6085.200,    518.440,    0 !   !END!  GR_M3222
DSC3279 ! X =   659.4000,   6085.200,    503.000,    0 !   !END!  GR_M3223
DSC3280 ! X =   659.6000,   6085.200,    487.000,    0 !   !END!  GR_M3224
DSC3281 ! X =   659.8000,   6085.200,    503.864,    0 !   !END!  GR_M3225
DSC3282 ! X =   660.0000,   6085.200,    520.248,    0 !   !END!  GR_M3226
DSC3283 ! X =   660.2000,   6085.200,    518.000,    0 !   !END!  GR_M3227
DSC3284 ! X =   659.4000,   6085.400,    492.612,    0 !   !END!  GR_M3228
DSC3285 ! X =   659.6000,   6085.400,    499.214,    0 !   !END!  GR_M3229
DSC3286 ! X =   659.8000,   6085.400,    519.000,    0 !   !END!  GR_M3230
DSC3287 ! X =   660.0000,   6085.400,    521.000,    0 !   !END!  GR_M3231
DSC3288 ! X =   660.2000,   6085.400,    519.954,    0 !   !END!  GR_M3232
DSC3289 ! X =   659.4000,   6085.600,    487.060,    0 !   !END!  GR_M3233
DSC3290 ! X =   659.6000,   6085.600,    515.133,    0 !   !END!  GR_M3234
DSC3291 ! X =   659.8000,   6085.600,    521.000,    0 !   !END!  GR_M3235
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DSC3292 ! X =   660.0000,   6085.600,    519.427,    0 !   !END!  GR_M3236
DSC3293 ! X =   660.2000,   6085.600,    495.661,    0 !   !END!  GR_M3237
DSC3294 ! X =   660.0000,   6085.800,    506.493,    0 !   !END!  GR_M3238
DSC3295 ! X =   660.2000,   6085.800,    471.707,    0 !   !END!  GR_M3239
DSC3296 ! X =   660.0000,   6086.000,    479.675,    0 !   !END!  GR_M3240
DSC3297 ! X =   660.2000,   6086.000,    468.000,    0 !   !END!  GR_M3241
DSC3298 ! X =   660.0000,   6086.200,    468.000,    0 !   !END!  GR_M3242
DSC3299 ! X =   660.2000,   6086.200,    468.000,    0 !   !END!  GR_M3243
DSC3300 ! X =   660.0000,   6086.400,    468.000,    0 !   !END!  GR_M3244
DSC3301 ! X =   660.2000,   6086.400,    468.000,    0 !   !END!  GR_M3245
DSC3302 ! X =   660.0000,   6086.600,    468.000,    0 !   !END!  GR_M3246
DSC3303 ! X =   660.2000,   6086.600,    468.000,    0 !   !END!  GR_M3247
DSC3304 ! X =   660.0000,   6086.800,    468.000,    0 !   !END!  GR_M3248
DSC3305 ! X =   660.2000,   6086.800,    468.000,    0 !   !END!  GR_M3249
DSC3306 ! X =   660.0000,   6087.000,    468.647,    0 !   !END!  GR_M3250
DSC3307 ! X =   660.2000,   6087.000,    469.194,    0 !   !END!  GR_M3251
DSC3308 ! X =   660.0000,   6087.200,    472.641,    0 !   !END!  GR_M3252
DSC3309 ! X =   660.2000,   6087.200,    480.218,    0 !   !END!  GR_M3253
DSC3310 ! X =   660.0000,   6087.400,    478.923,    0 !   !END!  GR_M3254
DSC3311 ! X =   660.2000,   6087.400,    486.957,    0 !   !END!  GR_M3255
DSC3312 ! X =   660.0000,   6087.600,    485.950,    0 !   !END!  GR_M3256
DSC3313 ! X =   660.2000,   6087.600,    481.365,    0 !   !END!  GR_M3257
DSC3314 ! X =   660.0000,   6087.800,    468.521,    0 !   !END!  GR_M3258
DSC3315 ! X =   660.2000,   6087.800,    468.000,    0 !   !END!  GR_M3259
DSC3316 ! X =   660.0000,   6088.000,    468.000,    0 !   !END!  GR_M3260
DSC3317 ! X =   660.2000,   6088.000,    468.000,    0 !   !END!  GR_M3261
DSC3318 ! X =   660.0000,   6088.200,    468.000,    0 !   !END!  GR_M3262
DSC3319 ! X =   660.2000,   6088.200,    468.000,    0 !   !END!  GR_M3263
DSC3320 ! X =   660.0000,   6088.400,    476.406,    0 !   !END!  GR_M3264
DSC3321 ! X =   660.2000,   6088.400,    479.206,    0 !   !END!  GR_M3265
DSC3322 ! X =   655.8000,   6083.600,    499.406,    0 !   !END!  GR_M3266
DSC3323 ! X =   656.0000,   6083.600,    482.073,    0 !   !END!  GR_M3267
DSC3324 ! X =   656.2000,   6083.600,    468.000,    0 !   !END!  GR_M3268
DSC3325 ! X =   658.6000,   6083.600,    502.000,    0 !   !END!  GR_M3269
DSC3326 ! X =   658.8000,   6083.600,    499.006,    0 !   !END!  GR_M3270
DSC3327 ! X =   659.0000,   6083.600,    499.000,    0 !   !END!  GR_M3271
DSC3328 ! X =   659.2000,   6083.600,    507.947,    0 !   !END!  GR_M3272
DSC3329 ! X =   659.4000,   6083.600,    531.848,    0 !   !END!  GR_M3273
DSC3330 ! X =   659.6000,   6083.600,    537.480,    0 !   !END!  GR_M3274
DSC3331 ! X =   659.8000,   6083.600,    504.805,    0 !   !END!  GR_M3275
DSC3332 ! X =   658.6000,   6083.800,    505.526,    0 !   !END!  GR_M3276
DSC3333 ! X =   658.8000,   6083.800,    507.677,    0 !   !END!  GR_M3277
DSC3334 ! X =   659.0000,   6083.800,    518.590,    0 !   !END!  GR_M3278
DSC3335 ! X =   659.2000,   6083.800,    534.319,    0 !   !END!  GR_M3279
DSC3336 ! X =   659.4000,   6083.800,    547.448,    0 !   !END!  GR_M3280
DSC3337 ! X =   659.6000,   6083.800,    511.658,    0 !   !END!  GR_M3281
DSC3338 ! X =   659.8000,   6083.800,    488.688,    0 !   !END!  GR_M3282
DSC3339 ! X =   658.6000,   6084.000,    515.523,    0 !   !END!  GR_M3283
DSC3340 ! X =   658.8000,   6084.000,    534.459,    0 !   !END!  GR_M3284
DSC3341 ! X =   659.0000,   6084.000,    536.830,    0 !   !END!  GR_M3285
DSC3342 ! X =   659.2000,   6084.000,    531.374,    0 !   !END!  GR_M3286
DSC3343 ! X =   659.4000,   6084.000,    499.125,    0 !   !END!  GR_M3287
DSC3344 ! X =   659.6000,   6084.000,    482.000,    0 !   !END!  GR_M3288
DSC3345 ! X =   659.8000,   6084.000,    482.000,    0 !   !END!  GR_M3289
DSC3346 ! X =   658.6000,   6084.200,    538.990,    0 !   !END!  GR_M3290
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DSC3347 ! X =   658.8000,   6084.200,    539.958,    0 !   !END!  GR_M3291
DSC3348 ! X =   659.0000,   6084.200,    516.122,    0 !   !END!  GR_M3292
DSC3349 ! X =   659.2000,   6084.200,    486.440,    0 !   !END!  GR_M3293
DSC3350 ! X =   659.4000,   6084.200,    482.000,    0 !   !END!  GR_M3294
DSC3351 ! X =   659.6000,   6084.200,    482.000,    0 !   !END!  GR_M3295
DSC3352 ! X =   659.8000,   6084.200,    482.685,    0 !   !END!  GR_M3296
DSC3353 ! X =   654.8000,   6082.800,    483.000,    0 !   !END!  GR_M3297
DSC3354 ! X =   655.0000,   6082.800,    486.954,    0 !   !END!  GR_M3298
DSC3355 ! X =   655.2000,   6082.800,    505.858,    0 !   !END!  GR_M3299
DSC3356 ! X =   655.4000,   6082.800,    512.134,    0 !   !END!  GR_M3300
DSC3357 ! X =   655.6000,   6082.800,    548.253,    0 !   !END!  GR_M3301
DSC3358 ! X =   655.8000,   6082.800,    581.694,    0 !   !END!  GR_M3302
DSC3359 ! X =   656.0000,   6082.800,    579.032,    0 !   !END!  GR_M3303
DSC3360 ! X =   656.2000,   6082.800,    543.237,    0 !   !END!  GR_M3304
DSC3361 ! X =   656.4000,   6082.800,    513.159,    0 !   !END!  GR_M3305
DSC3362 ! X =   656.6000,   6082.800,    488.808,    0 !   !END!  GR_M3306
DSC3363 ! X =   656.8000,   6082.800,    470.232,    0 !   !END!  GR_M3307
DSC3364 ! X =   657.0000,   6082.800,    468.000,    0 !   !END!  GR_M3308
DSC3365 ! X =   657.2000,   6082.800,    468.000,    0 !   !END!  GR_M3309
DSC3366 ! X =   657.4000,   6082.800,    468.000,    0 !   !END!  GR_M3310
DSC3367 ! X =   657.6000,   6082.800,    468.000,    0 !   !END!  GR_M3311
DSC3368 ! X =   657.8000,   6082.800,    468.000,    0 !   !END!  GR_M3312
DSC3369 ! X =   658.0000,   6082.800,    468.000,    0 !   !END!  GR_M3313
DSC3370 ! X =   658.2000,   6082.800,    468.000,    0 !   !END!  GR_M3314
DSC3371 ! X =   658.4000,   6082.800,    476.323,    0 !   !END!  GR_M3315
DSC3372 ! X =   658.6000,   6082.800,    482.046,    0 !   !END!  GR_M3316
DSC3373 ! X =   658.8000,   6082.800,    487.603,    0 !   !END!  GR_M3317
DSC3374 ! X =   654.8000,   6083.000,    485.000,    0 !   !END!  GR_M3318
DSC3375 ! X =   655.0000,   6083.000,    500.557,    0 !   !END!  GR_M3319
DSC3376 ! X =   655.2000,   6083.000,    501.374,    0 !   !END!  GR_M3320
DSC3377 ! X =   655.4000,   6083.000,    544.387,    0 !   !END!  GR_M3321
DSC3378 ! X =   655.6000,   6083.000,    581.454,    0 !   !END!  GR_M3322
DSC3379 ! X =   655.8000,   6083.000,    580.810,    0 !   !END!  GR_M3323
DSC3380 ! X =   656.0000,   6083.000,    552.590,    0 !   !END!  GR_M3324
DSC3381 ! X =   656.2000,   6083.000,    515.922,    0 !   !END!  GR_M3325
DSC3382 ! X =   656.4000,   6083.000,    492.962,    0 !   !END!  GR_M3326
DSC3383 ! X =   656.6000,   6083.000,    470.002,    0 !   !END!  GR_M3327
DSC3384 ! X =   656.8000,   6083.000,    468.000,    0 !   !END!  GR_M3328
DSC3385 ! X =   657.0000,   6083.000,    468.000,    0 !   !END!  GR_M3329
DSC3386 ! X =   657.2000,   6083.000,    468.000,    0 !   !END!  GR_M3330
DSC3387 ! X =   657.4000,   6083.000,    468.000,    0 !   !END!  GR_M3331
DSC3388 ! X =   657.6000,   6083.000,    468.000,    0 !   !END!  GR_M3332
DSC3389 ! X =   657.8000,   6083.000,    468.000,    0 !   !END!  GR_M3333
DSC3390 ! X =   658.0000,   6083.000,    468.000,    0 !   !END!  GR_M3334
DSC3391 ! X =   658.2000,   6083.000,    478.109,    0 !   !END!  GR_M3335
DSC3392 ! X =   658.4000,   6083.000,    484.467,    0 !   !END!  GR_M3336
DSC3393 ! X =   658.6000,   6083.000,    493.482,    0 !   !END!  GR_M3337
DSC3394 ! X =   658.8000,   6083.000,    500.360,    0 !   !END!  GR_M3338
DSC3395 ! X =   654.8000,   6083.200,    490.000,    0 !   !END!  GR_M3339
DSC3396 ! X =   655.0000,   6083.200,    496.364,    0 !   !END!  GR_M3340
DSC3397 ! X =   655.2000,   6083.200,    536.178,    0 !   !END!  GR_M3341
DSC3398 ! X =   655.4000,   6083.200,    569.725,    0 !   !END!  GR_M3342
DSC3399 ! X =   655.6000,   6083.200,    582.369,    0 !   !END!  GR_M3343
DSC3400 ! X =   655.8000,   6083.200,    554.778,    0 !   !END!  GR_M3344
DSC3401 ! X =   656.0000,   6083.200,    512.395,    0 !   !END!  GR_M3345
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DSC3402 ! X =   656.2000,   6083.200,    485.056,    0 !   !END!  GR_M3346
DSC3403 ! X =   658.6000,   6083.200,    503.280,    0 !   !END!  GR_M3347
DSC3404 ! X =   658.8000,   6083.200,    503.002,    0 !   !END!  GR_M3348
DSC3405 ! X =   654.8000,   6083.400,    498.062,    0 !   !END!  GR_M3349
DSC3406 ! X =   655.0000,   6083.400,    531.877,    0 !   !END!  GR_M3350
DSC3407 ! X =   655.2000,   6083.400,    557.408,    0 !   !END!  GR_M3351
DSC3408 ! X =   655.4000,   6083.400,    563.929,    0 !   !END!  GR_M3352
DSC3409 ! X =   655.6000,   6083.400,    546.416,    0 !   !END!  GR_M3353
DSC3410 ! X =   655.8000,   6083.400,    515.739,    0 !   !END!  GR_M3354
DSC3411 ! X =   656.0000,   6083.400,    495.946,    0 !   !END!  GR_M3355
DSC3412 ! X =   656.2000,   6083.400,    475.800,    0 !   !END!  GR_M3356
DSC3413 ! X =   658.6000,   6083.400,    504.048,    0 !   !END!  GR_M3357
DSC3414 ! X =   658.8000,   6083.400,    501.222,    0 !   !END!  GR_M3358
DSC3415 ! X =   654.8000,   6083.600,    524.027,    0 !   !END!  GR_M3359
DSC3416 ! X =   655.0000,   6083.600,    540.034,    0 !   !END!  GR_M3360
DSC3417 ! X =   655.2000,   6083.600,    544.512,    0 !   !END!  GR_M3361
DSC3418 ! X =   655.4000,   6083.600,    530.782,    0 !   !END!  GR_M3362
DSC3419 ! X =   655.6000,   6083.600,    511.196,    0 !   !END!  GR_M3363
DSC3420 ! X =   654.8000,   6083.800,    522.610,    0 !   !END!  GR_M3364
DSC3421 ! X =   655.0000,   6083.800,    526.103,    0 !   !END!  GR_M3365
DSC3422 ! X =   655.2000,   6083.800,    517.000,    0 !   !END!  GR_M3366
DSC3423 ! X =   655.4000,   6083.800,    511.323,    0 !   !END!  GR_M3367
DSC3424 ! X =   655.6000,   6083.800,    500.106,    0 !   !END!  GR_M3368
DSC3425 ! X =   654.8000,   6084.000,    514.925,    0 !   !END!  GR_M3369
DSC3426 ! X =   655.0000,   6084.000,    514.638,    0 !   !END!  GR_M3370
DSC3427 ! X =   655.2000,   6084.000,    506.350,    0 !   !END!  GR_M3371
DSC3428 ! X =   655.4000,   6084.000,    495.933,    0 !   !END!  GR_M3372
DSC3429 ! X =   655.6000,   6084.000,    486.864,    0 !   !END!  GR_M3373
DSC3430 ! X =   654.8000,   6084.200,    500.387,    0 !   !END!  GR_M3374
DSC3431 ! X =   655.0000,   6084.200,    501.203,    0 !   !END!  GR_M3375
DSC3432 ! X =   655.2000,   6084.200,    490.029,    0 !   !END!  GR_M3376
DSC3433 ! X =   655.4000,   6084.200,    488.202,    0 !   !END!  GR_M3377
DSC3434 ! X =   655.6000,   6084.200,    473.540,    0 !   !END!  GR_M3378
DSC3435 ! X =   654.8000,   6084.400,    494.935,    0 !   !END!  GR_M3379
DSC3436 ! X =   655.0000,   6084.400,    489.544,    0 !   !END!  GR_M3380
DSC3437 ! X =   655.2000,   6084.400,    486.890,    0 !   !END!  GR_M3381
DSC3438 ! X =   655.4000,   6084.400,    475.648,    0 !   !END!  GR_M3382
DSC3439 ! X =   655.6000,   6084.400,    468.000,    0 !   !END!  GR_M3383
DSC3440 ! X =   654.8000,   6084.600,    489.664,    0 !   !END!  GR_M3384
DSC3441 ! X =   655.0000,   6084.600,    487.405,    0 !   !END!  GR_M3385
DSC3442 ! X =   655.2000,   6084.600,    469.259,    0 !   !END!  GR_M3386
DSC3443 ! X =   655.4000,   6084.600,    468.000,    0 !   !END!  GR_M3387
DSC3444 ! X =   655.6000,   6084.600,    468.000,    0 !   !END!  GR_M3388
DSC3445 ! X =   654.8000,   6084.800,    472.983,    0 !   !END!  GR_M3389
DSC3446 ! X =   655.0000,   6084.800,    468.000,    0 !   !END!  GR_M3390
DSC3447 ! X =   655.2000,   6084.800,    468.000,    0 !   !END!  GR_M3391
DSC3448 ! X =   655.4000,   6084.800,    468.000,    0 !   !END!  GR_M3392
DSC3449 ! X =   655.6000,   6084.800,    468.000,    0 !   !END!  GR_M3393
DSC3450 ! X =   654.8000,   6085.000,    468.310,    0 !   !END!  GR_M3394
DSC3451 ! X =   655.0000,   6085.000,    468.000,    0 !   !END!  GR_M3395
DSC3452 ! X =   655.2000,   6085.000,    468.000,    0 !   !END!  GR_M3396
DSC3453 ! X =   655.4000,   6085.000,    468.000,    0 !   !END!  GR_M3397
DSC3454 ! X =   655.6000,   6085.000,    468.000,    0 !   !END!  GR_M3398
DSC3455 ! X =   654.8000,   6085.200,    468.000,    0 !   !END!  GR_M3399
DSC3456 ! X =   655.0000,   6085.200,    468.000,    0 !   !END!  GR_M3400
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DSC3457 ! X =   655.2000,   6085.200,    468.000,    0 !   !END!  GR_M3401
DSC3458 ! X =   655.4000,   6085.200,    468.000,    0 !   !END!  GR_M3402
DSC3459 ! X =   655.6000,   6085.200,    468.000,    0 !   !END!  GR_M3403
DSC3460 ! X =   654.8000,   6085.400,    468.000,    0 !   !END!  GR_M3404
DSC3461 ! X =   655.0000,   6085.400,    468.000,    0 !   !END!  GR_M3405
DSC3462 ! X =   655.2000,   6085.400,    468.000,    0 !   !END!  GR_M3406
DSC3463 ! X =   655.4000,   6085.400,    468.000,    0 !   !END!  GR_M3407
DSC3464 ! X =   655.6000,   6085.400,    468.000,    0 !   !END!  GR_M3408
DSC3465 ! X =   654.8000,   6085.600,    468.000,    0 !   !END!  GR_M3409
DSC3466 ! X =   655.0000,   6085.600,    468.000,    0 !   !END!  GR_M3410
DSC3467 ! X =   655.2000,   6085.600,    468.000,    0 !   !END!  GR_M3411
DSC3468 ! X =   655.4000,   6085.600,    468.000,    0 !   !END!  GR_M3412
DSC3469 ! X =   655.6000,   6085.600,    468.000,    0 !   !END!  GR_M3413
DSC3470 ! X =   654.8000,   6085.800,    468.000,    0 !   !END!  GR_M3414
DSC3471 ! X =   655.0000,   6085.800,    468.000,    0 !   !END!  GR_M3415
DSC3472 ! X =   655.2000,   6085.800,    468.000,    0 !   !END!  GR_M3416
DSC3473 ! X =   655.4000,   6085.800,    468.000,    0 !   !END!  GR_M3417
DSC3474 ! X =   655.6000,   6085.800,    468.000,    0 !   !END!  GR_M3418
DSC3475 ! X =   654.8000,   6086.000,    468.000,    0 !   !END!  GR_M3419
DSC3476 ! X =   655.0000,   6086.000,    468.000,    0 !   !END!  GR_M3420
DSC3477 ! X =   655.2000,   6086.000,    468.000,    0 !   !END!  GR_M3421
DSC3478 ! X =   655.4000,   6086.000,    468.000,    0 !   !END!  GR_M3422
DSC3479 ! X =   655.6000,   6086.000,    471.990,    0 !   !END!  GR_M3423
DSC3480 ! X =   654.8000,   6086.200,    468.000,    0 !   !END!  GR_M3424
DSC3481 ! X =   655.0000,   6086.200,    468.000,    0 !   !END!  GR_M3425
DSC3482 ! X =   655.2000,   6086.200,    468.000,    0 !   !END!  GR_M3426
DSC3483 ! X =   655.4000,   6086.200,    468.000,    0 !   !END!  GR_M3427
DSC3484 ! X =   655.6000,   6086.200,    485.696,    0 !   !END!  GR_M3428
DSC3485 ! X =   654.8000,   6086.400,    468.000,    0 !   !END!  GR_M3429
DSC3486 ! X =   655.0000,   6086.400,    468.000,    0 !   !END!  GR_M3430
DSC3487 ! X =   655.2000,   6086.400,    468.000,    0 !   !END!  GR_M3431
DSC3488 ! X =   655.4000,   6086.400,    470.234,    0 !   !END!  GR_M3432
DSC3489 ! X =   655.6000,   6086.400,    490.282,    0 !   !END!  GR_M3433
DSC3490 ! X =   654.8000,   6086.600,    468.000,    0 !   !END!  GR_M3434
DSC3491 ! X =   655.0000,   6086.600,    468.000,    0 !   !END!  GR_M3435
DSC3492 ! X =   655.2000,   6086.600,    468.000,    0 !   !END!  GR_M3436
DSC3493 ! X =   655.4000,   6086.600,    472.503,    0 !   !END!  GR_M3437
DSC3494 ! X =   655.6000,   6086.600,    489.000,    0 !   !END!  GR_M3438
DSC3495 ! X =   654.8000,   6086.800,    468.000,    0 !   !END!  GR_M3439
DSC3496 ! X =   655.0000,   6086.800,    468.000,    0 !   !END!  GR_M3440
DSC3497 ! X =   655.2000,   6086.800,    468.000,    0 !   !END!  GR_M3441
DSC3498 ! X =   655.4000,   6086.800,    473.154,    0 !   !END!  GR_M3442
DSC3499 ! X =   655.6000,   6086.800,    485.150,    0 !   !END!  GR_M3443
DSC3500 ! X =   655.4000,   6082.200,    486.260,    0 !   !END!  GR_M3444
DSC3501 ! X =   655.6000,   6082.200,    499.618,    0 !   !END!  GR_M3445
DSC3502 ! X =   655.8000,   6082.200,    523.047,    0 !   !END!  GR_M3446
DSC3503 ! X =   656.0000,   6082.200,    538.119,    0 !   !END!  GR_M3447
DSC3504 ! X =   656.2000,   6082.200,    570.486,    0 !   !END!  GR_M3448
DSC3505 ! X =   656.4000,   6082.200,    588.451,    0 !   !END!  GR_M3449
DSC3506 ! X =   656.6000,   6082.200,    573.544,    0 !   !END!  GR_M3450
DSC3507 ! X =   656.8000,   6082.200,    548.477,    0 !   !END!  GR_M3451
DSC3508 ! X =   657.0000,   6082.200,    527.168,    0 !   !END!  GR_M3452
DSC3509 ! X =   657.2000,   6082.200,    504.415,    0 !   !END!  GR_M3453
DSC3510 ! X =   657.4000,   6082.200,    482.306,    0 !   !END!  GR_M3454
DSC3511 ! X =   657.6000,   6082.200,    468.562,    0 !   !END!  GR_M3455
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DSC3512 ! X =   657.8000,   6082.200,    468.000,    0 !   !END!  GR_M3456
DSC3513 ! X =   658.0000,   6082.200,    468.000,    0 !   !END!  GR_M3457
DSC3514 ! X =   658.2000,   6082.200,    468.000,    0 !   !END!  GR_M3458
DSC3515 ! X =   658.4000,   6082.200,    468.000,    0 !   !END!  GR_M3459
DSC3516 ! X =   658.6000,   6082.200,    468.000,    0 !   !END!  GR_M3460
DSC3517 ! X =   658.8000,   6082.200,    468.000,    0 !   !END!  GR_M3461
DSC3518 ! X =   659.0000,   6082.200,    468.000,    0 !   !END!  GR_M3462
DSC3519 ! X =   659.2000,   6082.200,    468.723,    0 !   !END!  GR_M3463
DSC3520 ! X =   659.4000,   6082.200,    468.030,    0 !   !END!  GR_M3464
DSC3521 ! X =   655.4000,   6082.400,    493.397,    0 !   !END!  GR_M3465
DSC3522 ! X =   655.6000,   6082.400,    518.856,    0 !   !END!  GR_M3466
DSC3523 ! X =   655.8000,   6082.400,    530.686,    0 !   !END!  GR_M3467
DSC3524 ! X =   656.0000,   6082.400,    557.432,    0 !   !END!  GR_M3468
DSC3525 ! X =   656.2000,   6082.400,    583.566,    0 !   !END!  GR_M3469
DSC3526 ! X =   656.4000,   6082.400,    571.117,    0 !   !END!  GR_M3470
DSC3527 ! X =   656.6000,   6082.400,    549.469,    0 !   !END!  GR_M3471
DSC3528 ! X =   656.8000,   6082.400,    522.856,    0 !   !END!  GR_M3472
DSC3529 ! X =   657.0000,   6082.400,    494.997,    0 !   !END!  GR_M3473
DSC3530 ! X =   657.2000,   6082.400,    475.688,    0 !   !END!  GR_M3474
DSC3531 ! X =   657.4000,   6082.400,    468.000,    0 !   !END!  GR_M3475
DSC3532 ! X =   657.6000,   6082.400,    468.000,    0 !   !END!  GR_M3476
DSC3533 ! X =   657.8000,   6082.400,    468.000,    0 !   !END!  GR_M3477
DSC3534 ! X =   658.0000,   6082.400,    468.000,    0 !   !END!  GR_M3478
DSC3535 ! X =   658.2000,   6082.400,    468.000,    0 !   !END!  GR_M3479
DSC3536 ! X =   658.4000,   6082.400,    468.000,    0 !   !END!  GR_M3480
DSC3537 ! X =   658.6000,   6082.400,    468.000,    0 !   !END!  GR_M3481
DSC3538 ! X =   658.8000,   6082.400,    469.000,    0 !   !END!  GR_M3482
DSC3539 ! X =   659.0000,   6082.400,    470.200,    0 !   !END!  GR_M3483
DSC3540 ! X =   659.2000,   6082.400,    469.893,    0 !   !END!  GR_M3484
DSC3541 ! X =   659.4000,   6082.400,    471.590,    0 !   !END!  GR_M3485
DSC3542 ! X =   655.4000,   6082.600,    515.992,    0 !   !END!  GR_M3486
DSC3543 ! X =   655.6000,   6082.600,    527.176,    0 !   !END!  GR_M3487
DSC3544 ! X =   655.8000,   6082.600,    550.241,    0 !   !END!  GR_M3488
DSC3545 ! X =   656.0000,   6082.600,    580.690,    0 !   !END!  GR_M3489
DSC3546 ! X =   656.2000,   6082.600,    573.723,    0 !   !END!  GR_M3490
DSC3547 ! X =   656.4000,   6082.600,    543.728,    0 !   !END!  GR_M3491
DSC3548 ! X =   656.6000,   6082.600,    518.800,    0 !   !END!  GR_M3492
DSC3549 ! X =   656.8000,   6082.600,    491.510,    0 !   !END!  GR_M3493
DSC3550 ! X =   657.0000,   6082.600,    470.461,    0 !   !END!  GR_M3494
DSC3551 ! X =   657.2000,   6082.600,    468.000,    0 !   !END!  GR_M3495
DSC3552 ! X =   657.4000,   6082.600,    468.000,    0 !   !END!  GR_M3496
DSC3553 ! X =   657.6000,   6082.600,    468.000,    0 !   !END!  GR_M3497
DSC3554 ! X =   657.8000,   6082.600,    468.000,    0 !   !END!  GR_M3498
DSC3555 ! X =   658.0000,   6082.600,    468.000,    0 !   !END!  GR_M3499
DSC3556 ! X =   658.2000,   6082.600,    468.000,    0 !   !END!  GR_M3500
DSC3557 ! X =   658.4000,   6082.600,    468.000,    0 !   !END!  GR_M3501
DSC3558 ! X =   658.6000,   6082.600,    474.430,    0 !   !END!  GR_M3502
DSC3559 ! X =   658.8000,   6082.600,    477.454,    0 !   !END!  GR_M3503
DSC3560 ! X =   659.0000,   6082.600,    484.094,    0 !   !END!  GR_M3504
DSC3561 ! X =   659.2000,   6082.600,    489.619,    0 !   !END!  GR_M3505
DSC3562 ! X =   659.4000,   6082.600,    488.206,    0 !   !END!  GR_M3506
DSC3563 ! X =   659.0000,   6082.800,    494.437,    0 !   !END!  GR_M3507
DSC3564 ! X =   659.2000,   6082.800,    493.000,    0 !   !END!  GR_M3508
DSC3565 ! X =   659.4000,   6082.800,    492.000,    0 !   !END!  GR_M3509
DSC3566 ! X =   659.0000,   6083.000,    502.058,    0 !   !END!  GR_M3510
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DSC3567 ! X =   659.2000,   6083.000,    494.000,    0 !   !END!  GR_M3511
DSC3568 ! X =   659.4000,   6083.000,    494.572,    0 !   !END!  GR_M3512
DSC3569 ! X =   659.0000,   6083.200,    500.415,    0 !   !END!  GR_M3513
DSC3570 ! X =   659.2000,   6083.200,    494.000,    0 !   !END!  GR_M3514
DSC3571 ! X =   659.4000,   6083.200,    497.752,    0 !   !END!  GR_M3515
DSC3572 ! X =   659.0000,   6083.400,    496.885,    0 !   !END!  GR_M3516
DSC3573 ! X =   659.2000,   6083.400,    497.992,    0 !   !END!  GR_M3517
DSC3574 ! X =   659.4000,   6083.400,    505.650,    0 !   !END!  GR_M3518
DSC3575 ! X =   651.3000,   6078.800,    478.000,    0 !   !END!  GR_M3519
DSC3576 ! X =   651.8000,   6078.800,    479.000,    0 !   !END!  GR_M3520
DSC3577 ! X =   652.3000,   6078.800,    478.000,    0 !   !END!  GR_M3521
DSC3578 ! X =   652.8000,   6078.800,    477.000,    0 !   !END!  GR_M3522
DSC3579 ! X =   653.3000,   6078.800,    476.000,    0 !   !END!  GR_M3523
DSC3580 ! X =   653.8000,   6078.800,    475.000,    0 !   !END!  GR_M3524
DSC3581 ! X =   654.3000,   6078.800,    473.000,    0 !   !END!  GR_M3525
DSC3582 ! X =   654.8000,   6078.800,    472.000,    0 !   !END!  GR_M3526
DSC3583 ! X =   655.3000,   6078.800,    472.000,    0 !   !END!  GR_M3527
DSC3584 ! X =   655.8000,   6078.800,    468.878,    0 !   !END!  GR_M3528
DSC3585 ! X =   656.3000,   6078.800,    470.000,    0 !   !END!  GR_M3529
DSC3586 ! X =   656.8000,   6078.800,    473.000,    0 !   !END!  GR_M3530
DSC3587 ! X =   657.3000,   6078.800,    472.000,    0 !   !END!  GR_M3531
DSC3588 ! X =   657.8000,   6078.800,    470.000,    0 !   !END!  GR_M3532
DSC3589 ! X =   658.3000,   6078.800,    482.118,    0 !   !END!  GR_M3533
DSC3590 ! X =   658.8000,   6078.800,    515.341,    0 !   !END!  GR_M3534
DSC3591 ! X =   659.3000,   6078.800,    557.330,    0 !   !END!  GR_M3535
DSC3592 ! X =   659.8000,   6078.800,    524.196,    0 !   !END!  GR_M3536
DSC3593 ! X =   660.3000,   6078.800,    534.952,    0 !   !END!  GR_M3537
DSC3594 ! X =   660.8000,   6078.800,    514.490,    0 !   !END!  GR_M3538
DSC3595 ! X =   661.3000,   6078.800,    468.000,    0 !   !END!  GR_M3539
DSC3596 ! X =   661.8000,   6078.800,    468.000,    0 !   !END!  GR_M3540
DSC3597 ! X =   662.3000,   6078.800,    468.000,    0 !   !END!  GR_M3541
DSC3598 ! X =   662.8000,   6078.800,    468.000,    0 !   !END!  GR_M3542
DSC3599 ! X =   663.3000,   6078.800,    473.000,    0 !   !END!  GR_M3543
DSC3600 ! X =   651.3000,   6079.300,    478.000,    0 !   !END!  GR_M3544
DSC3601 ! X =   651.8000,   6079.300,    479.000,    0 !   !END!  GR_M3545
DSC3602 ! X =   652.3000,   6079.300,    477.422,    0 !   !END!  GR_M3546
DSC3603 ! X =   652.8000,   6079.300,    476.000,    0 !   !END!  GR_M3547
DSC3604 ! X =   653.3000,   6079.300,    475.000,    0 !   !END!  GR_M3548
DSC3605 ! X =   653.8000,   6079.300,    473.000,    0 !   !END!  GR_M3549
DSC3606 ! X =   654.3000,   6079.300,    472.000,    0 !   !END!  GR_M3550
DSC3607 ! X =   654.8000,   6079.300,    472.000,    0 !   !END!  GR_M3551
DSC3608 ! X =   655.3000,   6079.300,    472.000,    0 !   !END!  GR_M3552
DSC3609 ! X =   655.8000,   6079.300,    470.158,    0 !   !END!  GR_M3553
DSC3610 ! X =   656.3000,   6079.300,    471.000,    0 !   !END!  GR_M3554
DSC3611 ! X =   656.8000,   6079.300,    476.000,    0 !   !END!  GR_M3555
DSC3612 ! X =   657.3000,   6079.300,    478.483,    0 !   !END!  GR_M3556
DSC3613 ! X =   657.8000,   6079.300,    485.426,    0 !   !END!  GR_M3557
DSC3614 ! X =   658.3000,   6079.300,    515.667,    0 !   !END!  GR_M3558
DSC3615 ! X =   658.8000,   6079.300,    548.467,    0 !   !END!  GR_M3559
DSC3616 ! X =   659.3000,   6079.300,    541.541,    0 !   !END!  GR_M3560
DSC3617 ! X =   659.8000,   6079.300,    559.205,    0 !   !END!  GR_M3561
DSC3618 ! X =   660.3000,   6079.300,    508.382,    0 !   !END!  GR_M3562
DSC3619 ! X =   660.8000,   6079.300,    468.162,    0 !   !END!  GR_M3563
DSC3620 ! X =   661.3000,   6079.300,    468.000,    0 !   !END!  GR_M3564
DSC3621 ! X =   661.8000,   6079.300,    468.000,    0 !   !END!  GR_M3565
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DSC3622 ! X =   662.3000,   6079.300,    472.490,    0 !   !END!  GR_M3566
DSC3623 ! X =   662.8000,   6079.300,    474.746,    0 !   !END!  GR_M3567
DSC3624 ! X =   663.3000,   6079.300,    480.569,    0 !   !END!  GR_M3568
DSC3625 ! X =   651.3000,   6079.800,    480.602,    0 !   !END!  GR_M3569
DSC3626 ! X =   651.8000,   6079.800,    481.000,    0 !   !END!  GR_M3570
DSC3627 ! X =   652.3000,   6079.800,    478.000,    0 !   !END!  GR_M3571
DSC3628 ! X =   652.8000,   6079.800,    475.000,    0 !   !END!  GR_M3572
DSC3629 ! X =   653.3000,   6079.800,    473.000,    0 !   !END!  GR_M3573
DSC3630 ! X =   653.8000,   6079.800,    472.000,    0 !   !END!  GR_M3574
DSC3631 ! X =   654.3000,   6079.800,    472.000,    0 !   !END!  GR_M3575
DSC3632 ! X =   654.8000,   6079.800,    472.000,    0 !   !END!  GR_M3576
DSC3633 ! X =   655.3000,   6079.800,    472.000,    0 !   !END!  GR_M3577
DSC3634 ! X =   655.8000,   6079.800,    472.000,    0 !   !END!  GR_M3578
DSC3635 ! X =   656.3000,   6079.800,    474.431,    0 !   !END!  GR_M3579
DSC3636 ! X =   656.8000,   6079.800,    480.793,    0 !   !END!  GR_M3580
DSC3637 ! X =   657.3000,   6079.800,    485.726,    0 !   !END!  GR_M3581
DSC3638 ! X =   657.8000,   6079.800,    516.201,    0 !   !END!  GR_M3582
DSC3639 ! X =   658.3000,   6079.800,    538.383,    0 !   !END!  GR_M3583
DSC3640 ! X =   658.8000,   6079.800,    563.256,    0 !   !END!  GR_M3584
DSC3641 ! X =   659.3000,   6079.800,    580.971,    0 !   !END!  GR_M3585
DSC3642 ! X =   659.8000,   6079.800,    532.056,    0 !   !END!  GR_M3586
DSC3643 ! X =   660.3000,   6079.800,    468.000,    0 !   !END!  GR_M3587
DSC3644 ! X =   660.8000,   6079.800,    468.000,    0 !   !END!  GR_M3588
DSC3645 ! X =   661.3000,   6079.800,    468.000,    0 !   !END!  GR_M3589
DSC3646 ! X =   661.8000,   6079.800,    475.000,    0 !   !END!  GR_M3590
DSC3647 ! X =   662.3000,   6079.800,    480.331,    0 !   !END!  GR_M3591
DSC3648 ! X =   662.8000,   6079.800,    484.293,    0 !   !END!  GR_M3592
DSC3649 ! X =   663.3000,   6079.800,    509.965,    0 !   !END!  GR_M3593
DSC3650 ! X =   651.3000,   6080.300,    484.000,    0 !   !END!  GR_M3594
DSC3651 ! X =   651.8000,   6080.300,    480.798,    0 !   !END!  GR_M3595
DSC3652 ! X =   652.3000,   6080.300,    478.000,    0 !   !END!  GR_M3596
DSC3653 ! X =   652.8000,   6080.300,    474.000,    0 !   !END!  GR_M3597
DSC3654 ! X =   653.3000,   6080.300,    474.000,    0 !   !END!  GR_M3598
DSC3655 ! X =   653.8000,   6080.300,    472.000,    0 !   !END!  GR_M3599
DSC3656 ! X =   654.3000,   6080.300,    472.000,    0 !   !END!  GR_M3600
DSC3657 ! X =   654.8000,   6080.300,    472.000,    0 !   !END!  GR_M3601
DSC3658 ! X =   655.3000,   6080.300,    474.274,    0 !   !END!  GR_M3602
DSC3659 ! X =   655.8000,   6080.300,    475.000,    0 !   !END!  GR_M3603
DSC3660 ! X =   656.3000,   6080.300,    480.000,    0 !   !END!  GR_M3604
DSC3661 ! X =   656.8000,   6080.300,    490.930,    0 !   !END!  GR_M3605
DSC3662 ! X =   657.3000,   6080.300,    528.251,    0 !   !END!  GR_M3606
DSC3663 ! X =   657.8000,   6080.300,    565.621,    0 !   !END!  GR_M3607
DSC3664 ! X =   658.3000,   6080.300,    572.523,    0 !   !END!  GR_M3608
DSC3665 ! X =   658.8000,   6080.300,    586.190,    0 !   !END!  GR_M3609
DSC3666 ! X =   659.3000,   6080.300,    515.314,    0 !   !END!  GR_M3610
DSC3667 ! X =   659.8000,   6080.300,    469.581,    0 !   !END!  GR_M3611
DSC3668 ! X =   660.3000,   6080.300,    468.000,    0 !   !END!  GR_M3612
DSC3669 ! X =   660.8000,   6080.300,    468.000,    0 !   !END!  GR_M3613
DSC3670 ! X =   661.3000,   6080.300,    470.000,    0 !   !END!  GR_M3614
DSC3671 ! X =   661.8000,   6080.300,    479.570,    0 !   !END!  GR_M3615
DSC3672 ! X =   662.3000,   6080.300,    490.246,    0 !   !END!  GR_M3616
DSC3673 ! X =   662.8000,   6080.300,    515.649,    0 !   !END!  GR_M3617
DSC3674 ! X =   663.3000,   6080.300,    532.867,    0 !   !END!  GR_M3618
DSC3675 ! X =   651.3000,   6080.800,    484.000,    0 !   !END!  GR_M3619
DSC3676 ! X =   651.8000,   6080.800,    480.000,    0 !   !END!  GR_M3620
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DSC3677 ! X =   652.3000,   6080.800,    475.000,    0 !   !END!  GR_M3621
DSC3678 ! X =   652.8000,   6080.800,    474.000,    0 !   !END!  GR_M3622
DSC3679 ! X =   653.3000,   6080.800,    473.000,    0 !   !END!  GR_M3623
DSC3680 ! X =   653.8000,   6080.800,    472.000,    0 !   !END!  GR_M3624
DSC3681 ! X =   654.3000,   6080.800,    472.000,    0 !   !END!  GR_M3625
DSC3682 ! X =   654.8000,   6080.800,    475.000,    0 !   !END!  GR_M3626
DSC3683 ! X =   655.3000,   6080.800,    476.316,    0 !   !END!  GR_M3627
DSC3684 ! X =   655.8000,   6080.800,    478.000,    0 !   !END!  GR_M3628
DSC3685 ! X =   656.3000,   6080.800,    485.000,    0 !   !END!  GR_M3629
DSC3686 ! X =   656.8000,   6080.800,    518.362,    0 !   !END!  GR_M3630
DSC3687 ! X =   657.3000,   6080.800,    546.373,    0 !   !END!  GR_M3631
DSC3688 ! X =   657.8000,   6080.800,    580.891,    0 !   !END!  GR_M3632
DSC3689 ! X =   658.3000,   6080.800,    556.275,    0 !   !END!  GR_M3633
DSC3690 ! X =   658.8000,   6080.800,    497.320,    0 !   !END!  GR_M3634
DSC3691 ! X =   659.3000,   6080.800,    469.208,    0 !   !END!  GR_M3635
DSC3692 ! X =   659.8000,   6080.800,    468.000,    0 !   !END!  GR_M3636
DSC3693 ! X =   660.3000,   6080.800,    468.000,    0 !   !END!  GR_M3637
DSC3694 ! X =   660.8000,   6080.800,    470.000,    0 !   !END!  GR_M3638
DSC3695 ! X =   661.3000,   6080.800,    479.715,    0 !   !END!  GR_M3639
DSC3696 ! X =   661.8000,   6080.800,    497.173,    0 !   !END!  GR_M3640
DSC3697 ! X =   662.3000,   6080.800,    526.307,    0 !   !END!  GR_M3641
DSC3698 ! X =   662.8000,   6080.800,    514.522,    0 !   !END!  GR_M3642
DSC3699 ! X =   663.3000,   6080.800,    482.394,    0 !   !END!  GR_M3643
DSC3700 ! X =   651.3000,   6081.300,    486.000,    0 !   !END!  GR_M3644
DSC3701 ! X =   651.8000,   6081.300,    482.000,    0 !   !END!  GR_M3645
DSC3702 ! X =   652.3000,   6081.300,    474.000,    0 !   !END!  GR_M3646
DSC3703 ! X =   652.8000,   6081.300,    474.000,    0 !   !END!  GR_M3647
DSC3704 ! X =   653.3000,   6081.300,    472.000,    0 !   !END!  GR_M3648
DSC3705 ! X =   653.8000,   6081.300,    473.240,    0 !   !END!  GR_M3649
DSC3706 ! X =   654.3000,   6081.300,    474.000,    0 !   !END!  GR_M3650
DSC3707 ! X =   654.8000,   6081.300,    476.000,    0 !   !END!  GR_M3651
DSC3708 ! X =   655.3000,   6081.300,    480.368,    0 !   !END!  GR_M3652
DSC3709 ! X =   655.8000,   6081.300,    482.000,    0 !   !END!  GR_M3653
DSC3710 ! X =   656.3000,   6081.300,    506.035,    0 !   !END!  GR_M3654
DSC3711 ! X =   656.8000,   6081.300,    543.064,    0 !   !END!  GR_M3655
DSC3712 ! X =   657.3000,   6081.300,    581.627,    0 !   !END!  GR_M3656
DSC3713 ! X =   657.8000,   6081.300,    547.857,    0 !   !END!  GR_M3657
DSC3714 ! X =   658.3000,   6081.300,    483.006,    0 !   !END!  GR_M3658
DSC3715 ! X =   658.8000,   6081.300,    468.000,    0 !   !END!  GR_M3659
DSC3716 ! X =   659.3000,   6081.300,    468.661,    0 !   !END!  GR_M3660
DSC3717 ! X =   659.8000,   6081.300,    468.659,    0 !   !END!  GR_M3661
DSC3718 ! X =   660.3000,   6081.300,    472.000,    0 !   !END!  GR_M3662
DSC3719 ! X =   660.8000,   6081.300,    477.000,    0 !   !END!  GR_M3663
DSC3720 ! X =   661.3000,   6081.300,    492.896,    0 !   !END!  GR_M3664
DSC3721 ! X =   661.8000,   6081.300,    535.479,    0 !   !END!  GR_M3665
DSC3722 ! X =   662.3000,   6081.300,    498.482,    0 !   !END!  GR_M3666
DSC3723 ! X =   662.8000,   6081.300,    468.022,    0 !   !END!  GR_M3667
DSC3724 ! X =   663.3000,   6081.300,    468.000,    0 !   !END!  GR_M3668
DSC3725 ! X =   651.3000,   6081.800,    485.019,    0 !   !END!  GR_M3669
DSC3726 ! X =   651.8000,   6081.800,    485.000,    0 !   !END!  GR_M3670
DSC3727 ! X =   652.3000,   6081.800,    478.000,    0 !   !END!  GR_M3671
DSC3728 ! X =   652.8000,   6081.800,    473.611,    0 !   !END!  GR_M3672
DSC3729 ! X =   653.3000,   6081.800,    474.000,    0 !   !END!  GR_M3673
DSC3730 ! X =   653.8000,   6081.800,    478.000,    0 !   !END!  GR_M3674
DSC3731 ! X =   654.3000,   6081.800,    477.000,    0 !   !END!  GR_M3675
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DSC3732 ! X =   654.8000,   6081.800,    477.000,    0 !   !END!  GR_M3676
DSC3733 ! X =   655.3000,   6081.800,    482.000,    0 !   !END!  GR_M3677
DSC3734 ! X =   655.8000,   6081.800,    491.274,    0 !   !END!  GR_M3678
DSC3735 ! X =   656.3000,   6081.800,    539.422,    0 !   !END!  GR_M3679
DSC3736 ! X =   656.8000,   6081.800,    606.360,    0 !   !END!  GR_M3680
DSC3737 ! X =   657.3000,   6081.800,    546.847,    0 !   !END!  GR_M3681
DSC3738 ! X =   657.8000,   6081.800,    479.634,    0 !   !END!  GR_M3682
DSC3739 ! X =   658.3000,   6081.800,    468.000,    0 !   !END!  GR_M3683
DSC3740 ! X =   658.8000,   6081.800,    468.000,    0 !   !END!  GR_M3684
DSC3741 ! X =   659.3000,   6081.800,    468.000,    0 !   !END!  GR_M3685
DSC3742 ! X =   659.8000,   6081.800,    471.000,    0 !   !END!  GR_M3686
DSC3743 ! X =   660.3000,   6081.800,    478.000,    0 !   !END!  GR_M3687
DSC3744 ! X =   660.8000,   6081.800,    486.582,    0 !   !END!  GR_M3688
DSC3745 ! X =   661.3000,   6081.800,    524.973,    0 !   !END!  GR_M3689
DSC3746 ! X =   661.8000,   6081.800,    483.000,    0 !   !END!  GR_M3690
DSC3747 ! X =   662.3000,   6081.800,    468.000,    0 !   !END!  GR_M3691
DSC3748 ! X =   662.8000,   6081.800,    468.000,    0 !   !END!  GR_M3692
DSC3749 ! X =   663.3000,   6081.800,    494.165,    0 !   !END!  GR_M3693
DSC3750 ! X =   651.3000,   6082.300,    488.000,    0 !   !END!  GR_M3694
DSC3751 ! X =   651.8000,   6082.300,    483.000,    0 !   !END!  GR_M3695
DSC3752 ! X =   652.3000,   6082.300,    480.012,    0 !   !END!  GR_M3696
DSC3753 ! X =   652.8000,   6082.300,    474.000,    0 !   !END!  GR_M3697
DSC3754 ! X =   653.3000,   6082.300,    476.000,    0 !   !END!  GR_M3698
DSC3755 ! X =   653.8000,   6082.300,    482.989,    0 !   !END!  GR_M3699
DSC3756 ! X =   654.3000,   6082.300,    481.000,    0 !   !END!  GR_M3700
DSC3757 ! X =   654.8000,   6082.300,    481.144,    0 !   !END!  GR_M3701
DSC3758 ! X =   655.3000,   6082.300,    485.040,    0 !   !END!  GR_M3702
DSC3759 ! X =   659.8000,   6082.300,    480.666,    0 !   !END!  GR_M3703
DSC3760 ! X =   660.3000,   6082.300,    489.410,    0 !   !END!  GR_M3704
DSC3761 ! X =   660.8000,   6082.300,    532.218,    0 !   !END!  GR_M3705
DSC3762 ! X =   661.3000,   6082.300,    486.974,    0 !   !END!  GR_M3706
DSC3763 ! X =   661.8000,   6082.300,    468.000,    0 !   !END!  GR_M3707
DSC3764 ! X =   662.3000,   6082.300,    474.806,    0 !   !END!  GR_M3708
DSC3765 ! X =   662.8000,   6082.300,    516.402,    0 !   !END!  GR_M3709
DSC3766 ! X =   663.3000,   6082.300,    510.082,    0 !   !END!  GR_M3710
DSC3767 ! X =   651.3000,   6082.800,    491.899,    0 !   !END!  GR_M3711
DSC3768 ! X =   651.8000,   6082.800,    487.000,    0 !   !END!  GR_M3712
DSC3769 ! X =   652.3000,   6082.800,    476.478,    0 !   !END!  GR_M3713
DSC3770 ! X =   652.8000,   6082.800,    475.000,    0 !   !END!  GR_M3714
DSC3771 ! X =   653.3000,   6082.800,    479.997,    0 !   !END!  GR_M3715
DSC3772 ! X =   653.8000,   6082.800,    485.000,    0 !   !END!  GR_M3716
DSC3773 ! X =   654.3000,   6082.800,    485.000,    0 !   !END!  GR_M3717
DSC3774 ! X =   659.8000,   6082.800,    495.672,    0 !   !END!  GR_M3718
DSC3775 ! X =   660.3000,   6082.800,    537.000,    0 !   !END!  GR_M3719
DSC3776 ! X =   660.8000,   6082.800,    492.349,    0 !   !END!  GR_M3720
DSC3777 ! X =   661.3000,   6082.800,    469.033,    0 !   !END!  GR_M3721
DSC3778 ! X =   661.8000,   6082.800,    468.000,    0 !   !END!  GR_M3722
DSC3779 ! X =   662.3000,   6082.800,    515.858,    0 !   !END!  GR_M3723
DSC3780 ! X =   662.8000,   6082.800,    505.006,    0 !   !END!  GR_M3724
DSC3781 ! X =   663.3000,   6082.800,    468.000,    0 !   !END!  GR_M3725
DSC3782 ! X =   651.3000,   6083.300,    491.000,    0 !   !END!  GR_M3726
DSC3783 ! X =   651.8000,   6083.300,    483.278,    0 !   !END!  GR_M3727
DSC3784 ! X =   652.3000,   6083.300,    477.586,    0 !   !END!  GR_M3728
DSC3785 ! X =   652.8000,   6083.300,    475.581,    0 !   !END!  GR_M3729
DSC3786 ! X =   653.3000,   6083.300,    480.000,    0 !   !END!  GR_M3730
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DSC3787 ! X =   653.8000,   6083.300,    485.000,    0 !   !END!  GR_M3731
DSC3788 ! X =   654.3000,   6083.300,    485.000,    0 !   !END!  GR_M3732
DSC3789 ! X =   659.8000,   6083.300,    527.859,    0 !   !END!  GR_M3733
DSC3790 ! X =   660.3000,   6083.300,    495.734,    0 !   !END!  GR_M3734
DSC3791 ! X =   660.8000,   6083.300,    483.142,    0 !   !END!  GR_M3735
DSC3792 ! X =   661.3000,   6083.300,    477.561,    0 !   !END!  GR_M3736
DSC3793 ! X =   661.8000,   6083.300,    489.358,    0 !   !END!  GR_M3737
DSC3794 ! X =   662.3000,   6083.300,    493.477,    0 !   !END!  GR_M3738
DSC3795 ! X =   662.8000,   6083.300,    468.000,    0 !   !END!  GR_M3739
DSC3796 ! X =   663.3000,   6083.300,    468.000,    0 !   !END!  GR_M3740
DSC3797 ! X =   651.3000,   6083.800,    486.000,    0 !   !END!  GR_M3741
DSC3798 ! X =   651.8000,   6083.800,    479.000,    0 !   !END!  GR_M3742
DSC3799 ! X =   652.3000,   6083.800,    475.000,    0 !   !END!  GR_M3743
DSC3800 ! X =   652.8000,   6083.800,    478.044,    0 !   !END!  GR_M3744
DSC3801 ! X =   653.3000,   6083.800,    483.000,    0 !   !END!  GR_M3745
DSC3802 ! X =   653.8000,   6083.800,    485.000,    0 !   !END!  GR_M3746
DSC3803 ! X =   654.3000,   6083.800,    495.366,    0 !   !END!  GR_M3747
DSC3804 ! X =   660.3000,   6083.800,    489.000,    0 !   !END!  GR_M3748
DSC3805 ! X =   660.8000,   6083.800,    482.737,    0 !   !END!  GR_M3749
DSC3806 ! X =   661.3000,   6083.800,    482.995,    0 !   !END!  GR_M3750
DSC3807 ! X =   661.8000,   6083.800,    472.774,    0 !   !END!  GR_M3751
DSC3808 ! X =   662.3000,   6083.800,    468.000,    0 !   !END!  GR_M3752
DSC3809 ! X =   662.8000,   6083.800,    468.000,    0 !   !END!  GR_M3753
DSC3810 ! X =   663.3000,   6083.800,    468.000,    0 !   !END!  GR_M3754
DSC3811 ! X =   651.3000,   6084.300,    481.894,    0 !   !END!  GR_M3755
DSC3812 ! X =   651.8000,   6084.300,    478.000,    0 !   !END!  GR_M3756
DSC3813 ! X =   652.3000,   6084.300,    481.005,    0 !   !END!  GR_M3757
DSC3814 ! X =   652.8000,   6084.300,    483.000,    0 !   !END!  GR_M3758
DSC3815 ! X =   653.3000,   6084.300,    482.734,    0 !   !END!  GR_M3759
DSC3816 ! X =   653.8000,   6084.300,    487.000,    0 !   !END!  GR_M3760
DSC3817 ! X =   654.3000,   6084.300,    502.068,    0 !   !END!  GR_M3761
DSC3818 ! X =   660.3000,   6084.300,    486.914,    0 !   !END!  GR_M3762
DSC3819 ! X =   660.8000,   6084.300,    491.266,    0 !   !END!  GR_M3763
DSC3820 ! X =   661.3000,   6084.300,    471.322,    0 !   !END!  GR_M3764
DSC3821 ! X =   661.8000,   6084.300,    468.000,    0 !   !END!  GR_M3765
DSC3822 ! X =   662.3000,   6084.300,    468.000,    0 !   !END!  GR_M3766
DSC3823 ! X =   662.8000,   6084.300,    468.000,    0 !   !END!  GR_M3767
DSC3824 ! X =   663.3000,   6084.300,    468.000,    0 !   !END!  GR_M3768
DSC3825 ! X =   651.3000,   6084.800,    480.045,    0 !   !END!  GR_M3769
DSC3826 ! X =   651.8000,   6084.800,    487.000,    0 !   !END!  GR_M3770
DSC3827 ! X =   652.3000,   6084.800,    487.000,    0 !   !END!  GR_M3771
DSC3828 ! X =   652.8000,   6084.800,    487.000,    0 !   !END!  GR_M3772
DSC3829 ! X =   653.3000,   6084.800,    486.003,    0 !   !END!  GR_M3773
DSC3830 ! X =   653.8000,   6084.800,    481.561,    0 !   !END!  GR_M3774
DSC3831 ! X =   654.3000,   6084.800,    490.000,    0 !   !END!  GR_M3775
DSC3832 ! X =   660.3000,   6084.800,    501.722,    0 !   !END!  GR_M3776
DSC3833 ! X =   660.8000,   6084.800,    479.619,    0 !   !END!  GR_M3777
DSC3834 ! X =   661.3000,   6084.800,    468.000,    0 !   !END!  GR_M3778
DSC3835 ! X =   661.8000,   6084.800,    468.000,    0 !   !END!  GR_M3779
DSC3836 ! X =   662.3000,   6084.800,    468.000,    0 !   !END!  GR_M3780
DSC3837 ! X =   662.8000,   6084.800,    468.000,    0 !   !END!  GR_M3781
DSC3838 ! X =   663.3000,   6084.800,    468.000,    0 !   !END!  GR_M3782
DSC3839 ! X =   651.3000,   6085.300,    485.645,    0 !   !END!  GR_M3783
DSC3840 ! X =   651.8000,   6085.300,    491.928,    0 !   !END!  GR_M3784
DSC3841 ! X =   652.3000,   6085.300,    507.186,    0 !   !END!  GR_M3785
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DSC3842 ! X =   652.8000,   6085.300,    504.130,    0 !   !END!  GR_M3786
DSC3843 ! X =   653.3000,   6085.300,    486.000,    0 !   !END!  GR_M3787
DSC3844 ! X =   653.8000,   6085.300,    475.646,    0 !   !END!  GR_M3788
DSC3845 ! X =   654.3000,   6085.300,    476.730,    0 !   !END!  GR_M3789
DSC3846 ! X =   660.3000,   6085.300,    507.782,    0 !   !END!  GR_M3790
DSC3847 ! X =   660.8000,   6085.300,    468.000,    0 !   !END!  GR_M3791
DSC3848 ! X =   661.3000,   6085.300,    468.000,    0 !   !END!  GR_M3792
DSC3849 ! X =   661.8000,   6085.300,    468.000,    0 !   !END!  GR_M3793
DSC3850 ! X =   662.3000,   6085.300,    473.989,    0 !   !END!  GR_M3794
DSC3851 ! X =   662.8000,   6085.300,    469.499,    0 !   !END!  GR_M3795
DSC3852 ! X =   663.3000,   6085.300,    468.000,    0 !   !END!  GR_M3796
DSC3853 ! X =   651.3000,   6085.800,    501.197,    0 !   !END!  GR_M3797
DSC3854 ! X =   651.8000,   6085.800,    515.298,    0 !   !END!  GR_M3798
DSC3855 ! X =   652.3000,   6085.800,    525.425,    0 !   !END!  GR_M3799
DSC3856 ! X =   652.8000,   6085.800,    523.854,    0 !   !END!  GR_M3800
DSC3857 ! X =   653.3000,   6085.800,    485.734,    0 !   !END!  GR_M3801
DSC3858 ! X =   653.8000,   6085.800,    468.000,    0 !   !END!  GR_M3802
DSC3859 ! X =   654.3000,   6085.800,    468.000,    0 !   !END!  GR_M3803
DSC3860 ! X =   660.3000,   6085.800,    468.000,    0 !   !END!  GR_M3804
DSC3861 ! X =   660.8000,   6085.800,    468.000,    0 !   !END!  GR_M3805
DSC3862 ! X =   661.3000,   6085.800,    469.000,    0 !   !END!  GR_M3806
DSC3863 ! X =   661.8000,   6085.800,    469.469,    0 !   !END!  GR_M3807
DSC3864 ! X =   662.3000,   6085.800,    468.000,    0 !   !END!  GR_M3808
DSC3865 ! X =   662.8000,   6085.800,    468.000,    0 !   !END!  GR_M3809
DSC3866 ! X =   663.3000,   6085.800,    468.000,    0 !   !END!  GR_M3810
DSC3867 ! X =   651.3000,   6086.300,    536.744,    0 !   !END!  GR_M3811
DSC3868 ! X =   651.8000,   6086.300,    547.009,    0 !   !END!  GR_M3812
DSC3869 ! X =   652.3000,   6086.300,    540.978,    0 !   !END!  GR_M3813
DSC3870 ! X =   652.8000,   6086.300,    508.026,    0 !   !END!  GR_M3814
DSC3871 ! X =   653.3000,   6086.300,    468.000,    0 !   !END!  GR_M3815
DSC3872 ! X =   653.8000,   6086.300,    468.000,    0 !   !END!  GR_M3816
DSC3873 ! X =   654.3000,   6086.300,    468.000,    0 !   !END!  GR_M3817
DSC3874 ! X =   660.3000,   6086.300,    468.000,    0 !   !END!  GR_M3818
DSC3875 ! X =   660.8000,   6086.300,    468.000,    0 !   !END!  GR_M3819
DSC3876 ! X =   661.3000,   6086.300,    473.986,    0 !   !END!  GR_M3820
DSC3877 ! X =   661.8000,   6086.300,    468.000,    0 !   !END!  GR_M3821
DSC3878 ! X =   662.3000,   6086.300,    468.000,    0 !   !END!  GR_M3822
DSC3879 ! X =   662.8000,   6086.300,    468.000,    0 !   !END!  GR_M3823
DSC3880 ! X =   663.3000,   6086.300,    468.000,    0 !   !END!  GR_M3824
DSC3881 ! X =   651.3000,   6086.800,    570.592,    0 !   !END!  GR_M3825
DSC3882 ! X =   651.8000,   6086.800,    545.541,    0 !   !END!  GR_M3826
DSC3883 ! X =   652.3000,   6086.800,    517.754,    0 !   !END!  GR_M3827
DSC3884 ! X =   652.8000,   6086.800,    495.309,    0 !   !END!  GR_M3828
DSC3885 ! X =   653.3000,   6086.800,    468.000,    0 !   !END!  GR_M3829
DSC3886 ! X =   653.8000,   6086.800,    468.000,    0 !   !END!  GR_M3830
DSC3887 ! X =   654.3000,   6086.800,    468.000,    0 !   !END!  GR_M3831
DSC3888 ! X =   660.3000,   6086.800,    468.000,    0 !   !END!  GR_M3832
DSC3889 ! X =   660.8000,   6086.800,    474.054,    0 !   !END!  GR_M3833
DSC3890 ! X =   661.3000,   6086.800,    468.000,    0 !   !END!  GR_M3834
DSC3891 ! X =   661.8000,   6086.800,    468.000,    0 !   !END!  GR_M3835
DSC3892 ! X =   662.3000,   6086.800,    468.000,    0 !   !END!  GR_M3836
DSC3893 ! X =   662.8000,   6086.800,    468.000,    0 !   !END!  GR_M3837
DSC3894 ! X =   663.3000,   6086.800,    468.000,    0 !   !END!  GR_M3838
DSC3895 ! X =   651.3000,   6087.300,    579.602,    0 !   !END!  GR_M3839
DSC3896 ! X =   651.8000,   6087.300,    527.745,    0 !   !END!  GR_M3840
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DSC3897 ! X =   652.3000,   6087.300,    503.616,    0 !   !END!  GR_M3841
DSC3898 ! X =   652.8000,   6087.300,    468.013,    0 !   !END!  GR_M3842
DSC3899 ! X =   653.3000,   6087.300,    468.000,    0 !   !END!  GR_M3843
DSC3900 ! X =   653.8000,   6087.300,    468.000,    0 !   !END!  GR_M3844
DSC3901 ! X =   654.3000,   6087.300,    468.000,    0 !   !END!  GR_M3845
DSC3902 ! X =   654.8000,   6087.300,    468.000,    0 !   !END!  GR_M3846
DSC3903 ! X =   655.3000,   6087.300,    471.934,    0 !   !END!  GR_M3847
DSC3904 ! X =   660.3000,   6087.300,    486.355,    0 !   !END!  GR_M3848
DSC3905 ! X =   660.8000,   6087.300,    468.000,    0 !   !END!  GR_M3849
DSC3906 ! X =   661.3000,   6087.300,    468.000,    0 !   !END!  GR_M3850
DSC3907 ! X =   661.8000,   6087.300,    468.000,    0 !   !END!  GR_M3851
DSC3908 ! X =   662.3000,   6087.300,    468.000,    0 !   !END!  GR_M3852
DSC3909 ! X =   662.8000,   6087.300,    468.000,    0 !   !END!  GR_M3853
DSC3910 ! X =   663.3000,   6087.300,    468.000,    0 !   !END!  GR_M3854
DSC3911 ! X =   651.3000,   6087.800,    543.198,    0 !   !END!  GR_M3855
DSC3912 ! X =   651.8000,   6087.800,    502.242,    0 !   !END!  GR_M3856
DSC3913 ! X =   652.3000,   6087.800,    468.000,    0 !   !END!  GR_M3857
DSC3914 ! X =   652.8000,   6087.800,    468.000,    0 !   !END!  GR_M3858
DSC3915 ! X =   653.3000,   6087.800,    468.000,    0 !   !END!  GR_M3859
DSC3916 ! X =   653.8000,   6087.800,    474.000,    0 !   !END!  GR_M3860
DSC3917 ! X =   654.3000,   6087.800,    468.000,    0 !   !END!  GR_M3861
DSC3918 ! X =   654.8000,   6087.800,    468.000,    0 !   !END!  GR_M3862
DSC3919 ! X =   655.3000,   6087.800,    468.000,    0 !   !END!  GR_M3863
DSC3920 ! X =   660.3000,   6087.800,    468.000,    0 !   !END!  GR_M3864
DSC3921 ! X =   660.8000,   6087.800,    468.000,    0 !   !END!  GR_M3865
DSC3922 ! X =   661.3000,   6087.800,    468.000,    0 !   !END!  GR_M3866
DSC3923 ! X =   661.8000,   6087.800,    468.000,    0 !   !END!  GR_M3867
DSC3924 ! X =   662.3000,   6087.800,    468.000,    0 !   !END!  GR_M3868
DSC3925 ! X =   662.8000,   6087.800,    471.038,    0 !   !END!  GR_M3869
DSC3926 ! X =   663.3000,   6087.800,    468.000,    0 !   !END!  GR_M3870
DSC3927 ! X =   651.3000,   6088.300,    499.832,    0 !   !END!  GR_M3871
DSC3928 ! X =   651.8000,   6088.300,    468.000,    0 !   !END!  GR_M3872
DSC3929 ! X =   652.3000,   6088.300,    468.000,    0 !   !END!  GR_M3873
DSC3930 ! X =   652.8000,   6088.300,    486.498,    0 !   !END!  GR_M3874
DSC3931 ! X =   653.3000,   6088.300,    491.910,    0 !   !END!  GR_M3875
DSC3932 ! X =   653.8000,   6088.300,    468.000,    0 !   !END!  GR_M3876
DSC3933 ! X =   654.3000,   6088.300,    468.000,    0 !   !END!  GR_M3877
DSC3934 ! X =   654.8000,   6088.300,    468.000,    0 !   !END!  GR_M3878
DSC3935 ! X =   655.3000,   6088.300,    468.000,    0 !   !END!  GR_M3879
DSC3936 ! X =   660.3000,   6088.300,    470.938,    0 !   !END!  GR_M3880
DSC3937 ! X =   660.8000,   6088.300,    472.000,    0 !   !END!  GR_M3881
DSC3938 ! X =   661.3000,   6088.300,    468.000,    0 !   !END!  GR_M3882
DSC3939 ! X =   661.8000,   6088.300,    468.000,    0 !   !END!  GR_M3883
DSC3940 ! X =   662.3000,   6088.300,    468.000,    0 !   !END!  GR_M3884
DSC3941 ! X =   662.8000,   6088.300,    468.000,    0 !   !END!  GR_M3885
DSC3942 ! X =   663.3000,   6088.300,    468.000,    0 !   !END!  GR_M3886
DSC3943 ! X =   651.3000,   6088.800,    468.000,    0 !   !END!  GR_M3887
DSC3944 ! X =   651.8000,   6088.800,    468.000,    0 !   !END!  GR_M3888
DSC3945 ! X =   652.3000,   6088.800,    511.693,    0 !   !END!  GR_M3889
DSC3946 ! X =   652.8000,   6088.800,    503.847,    0 !   !END!  GR_M3890
DSC3947 ! X =   653.3000,   6088.800,    468.000,    0 !   !END!  GR_M3891
DSC3948 ! X =   653.8000,   6088.800,    468.000,    0 !   !END!  GR_M3892
DSC3949 ! X =   654.3000,   6088.800,    468.000,    0 !   !END!  GR_M3893
DSC3950 ! X =   654.8000,   6088.800,    468.000,    0 !   !END!  GR_M3894
DSC3951 ! X =   655.3000,   6088.800,    468.000,    0 !   !END!  GR_M3895
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DSC3952 ! X =   660.3000,   6088.800,    506.028,    0 !   !END!  GR_M3896
DSC3953 ! X =   660.8000,   6088.800,    468.000,    0 !   !END!  GR_M3897
DSC3954 ! X =   661.3000,   6088.800,    468.000,    0 !   !END!  GR_M3898
DSC3955 ! X =   661.8000,   6088.800,    468.000,    0 !   !END!  GR_M3899
DSC3956 ! X =   662.3000,   6088.800,    468.000,    0 !   !END!  GR_M3900
DSC3957 ! X =   662.8000,   6088.800,    468.000,    0 !   !END!  GR_M3901
DSC3958 ! X =   663.3000,   6088.800,    468.000,    0 !   !END!  GR_M3902
DSC3959 ! X =   651.3000,   6089.300,    468.000,    0 !   !END!  GR_M3903
DSC3960 ! X =   651.8000,   6089.300,    505.472,    0 !   !END!  GR_M3904
DSC3961 ! X =   652.3000,   6089.300,    511.546,    0 !   !END!  GR_M3905
DSC3962 ! X =   652.8000,   6089.300,    484.988,    0 !   !END!  GR_M3906
DSC3963 ! X =   653.3000,   6089.300,    468.000,    0 !   !END!  GR_M3907
DSC3964 ! X =   653.8000,   6089.300,    468.000,    0 !   !END!  GR_M3908
DSC3965 ! X =   654.3000,   6089.300,    468.000,    0 !   !END!  GR_M3909
DSC3966 ! X =   654.8000,   6089.300,    468.000,    0 !   !END!  GR_M3910
DSC3967 ! X =   655.3000,   6089.300,    468.147,    0 !   !END!  GR_M3911
DSC3968 ! X =   660.3000,   6089.300,    471.704,    0 !   !END!  GR_M3912
DSC3969 ! X =   660.8000,   6089.300,    468.000,    0 !   !END!  GR_M3913
DSC3970 ! X =   661.3000,   6089.300,    468.000,    0 !   !END!  GR_M3914
DSC3971 ! X =   661.8000,   6089.300,    468.000,    0 !   !END!  GR_M3915
DSC3972 ! X =   662.3000,   6089.300,    468.000,    0 !   !END!  GR_M3916
DSC3973 ! X =   662.8000,   6089.300,    468.000,    0 !   !END!  GR_M3917
DSC3974 ! X =   663.3000,   6089.300,    468.976,    0 !   !END!  GR_M3918
DSC3975 ! X =   651.3000,   6089.800,    527.659,    0 !   !END!  GR_M3919
DSC3976 ! X =   651.8000,   6089.800,    514.141,    0 !   !END!  GR_M3920
DSC3977 ! X =   652.3000,   6089.800,    478.518,    0 !   !END!  GR_M3921
DSC3978 ! X =   652.8000,   6089.800,    468.000,    0 !   !END!  GR_M3922
DSC3979 ! X =   653.3000,   6089.800,    468.000,    0 !   !END!  GR_M3923
DSC3980 ! X =   653.8000,   6089.800,    468.000,    0 !   !END!  GR_M3924
DSC3981 ! X =   654.3000,   6089.800,    468.000,    0 !   !END!  GR_M3925
DSC3982 ! X =   654.8000,   6089.800,    468.000,    0 !   !END!  GR_M3926
DSC3983 ! X =   655.3000,   6089.800,    468.000,    0 !   !END!  GR_M3927
DSC3984 ! X =   660.3000,   6089.800,    468.000,    0 !   !END!  GR_M3928
DSC3985 ! X =   660.8000,   6089.800,    468.000,    0 !   !END!  GR_M3929
DSC3986 ! X =   661.3000,   6089.800,    468.000,    0 !   !END!  GR_M3930
DSC3987 ! X =   661.8000,   6089.800,    468.000,    0 !   !END!  GR_M3931
DSC3988 ! X =   662.3000,   6089.800,    468.000,    0 !   !END!  GR_M3932
DSC3989 ! X =   662.8000,   6089.800,    503.546,    0 !   !END!  GR_M3933
DSC3990 ! X =   663.3000,   6089.800,    468.000,    0 !   !END!  GR_M3934
DSC3991 ! X =   651.3000,   6090.300,    505.953,    0 !   !END!  GR_M3935
DSC3992 ! X =   651.8000,   6090.300,    478.696,    0 !   !END!  GR_M3936
DSC3993 ! X =   652.3000,   6090.300,    468.000,    0 !   !END!  GR_M3937
DSC3994 ! X =   652.8000,   6090.300,    468.000,    0 !   !END!  GR_M3938
DSC3995 ! X =   653.3000,   6090.300,    468.000,    0 !   !END!  GR_M3939
DSC3996 ! X =   653.8000,   6090.300,    468.000,    0 !   !END!  GR_M3940
DSC3997 ! X =   654.3000,   6090.300,    468.000,    0 !   !END!  GR_M3941
DSC3998 ! X =   654.8000,   6090.300,    468.000,    0 !   !END!  GR_M3942
DSC3999 ! X =   655.3000,   6090.300,    468.000,    0 !   !END!  GR_M3943
DSC4000 ! X =   655.8000,   6090.300,    468.000,    0 !   !END!  GR_M3944
DSC4001 ! X =   656.3000,   6090.300,    471.896,    0 !   !END!  GR_M3945
DSC4002 ! X =   656.8000,   6090.300,    472.000,    0 !   !END!  GR_M3946
DSC4003 ! X =   657.3000,   6090.300,    468.000,    0 !   !END!  GR_M3947
DSC4004 ! X =   657.8000,   6090.300,    468.000,    0 !   !END!  GR_M3948
DSC4005 ! X =   658.3000,   6090.300,    468.000,    0 !   !END!  GR_M3949
DSC4006 ! X =   658.8000,   6090.300,    469.763,    0 !   !END!  GR_M3950
```

```
 DSC4007 ! X =   659.3000,   6090.300,    468.000,    0 !   !END!  GR_M3951
 DSC4008 ! X =   659.8000,   6090.300,    468.000,    0 !   !END!  GR_M3952
 DSC4009 ! X =   660.3000,   6090.300,    468.000,    0 !   !END!  GR_M3953
 DSC4010 ! X =   660.8000,   6090.300,    468.000,    0 !   !END!  GR_M3954
 DSC4011 ! X =   661.3000,   6090.300,    468.000,    0 !   !END!  GR_M3955
 DSC4012 ! X =   661.8000,   6090.300,    468.000,    0 !   !END!  GR_M3956
 DSC4013 ! X =   662.3000,   6090.300,    490.000,    0 !   !END!  GR_M3957
 DSC4014 ! X =   662.8000,   6090.300,    470.226,    0 !   !END!  GR_M3958
 DSC4015 ! X =   663.3000,   6090.300,    468.000,    0 !   !END!  GR_M3959
 DSC4016 ! X =   651.3000,   6090.800,    492.995,    0 !   !END!  GR_M3960
 DSC4017 ! X =   651.8000,   6090.800,    468.000,    0 !   !END!  GR_M3961
 DSC4018 ! X =   652.3000,   6090.800,    468.000,    0 !   !END!  GR_M3962
 DSC4019 ! X =   652.8000,   6090.800,    468.000,    0 !   !END!  GR_M3963
 DSC4020 ! X =   653.3000,   6090.800,    468.000,    0 !   !END!  GR_M3964
 DSC4021 ! X =   653.8000,   6090.800,    468.000,    0 !   !END!  GR_M3965
 DSC4022 ! X =   654.3000,   6090.800,    468.587,    0 !   !END!  GR_M3966
 DSC4023 ! X =   654.8000,   6090.800,    468.000,    0 !   !END!  GR_M3967
 DSC4024 ! X =   655.3000,   6090.800,    468.000,    0 !   !END!  GR_M3968
 DSC4025 ! X =   655.8000,   6090.800,    475.000,    0 !   !END!  GR_M3969
 DSC4026 ! X =   656.3000,   6090.800,    471.000,    0 !   !END!  GR_M3970
 DSC4027 ! X =   656.8000,   6090.800,    468.000,    0 !   !END!  GR_M3971
 DSC4028 ! X =   657.3000,   6090.800,    468.000,    0 !   !END!  GR_M3972
 DSC4029 ! X =   657.8000,   6090.800,    468.000,    0 !   !END!  GR_M3973
 DSC4030 ! X =   658.3000,   6090.800,    468.000,    0 !   !END!  GR_M3974
 DSC4031 ! X =   658.8000,   6090.800,    468.000,    0 !   !END!  GR_M3975
 DSC4032 ! X =   659.3000,   6090.800,    468.000,    0 !   !END!  GR_M3976
 DSC4033 ! X =   659.8000,   6090.800,    468.000,    0 !   !END!  GR_M3977
 DSC4034 ! X =   660.3000,   6090.800,    468.000,    0 !   !END!  GR_M3978
 DSC4035 ! X =   660.8000,   6090.800,    468.000,    0 !   !END!  GR_M3979
 DSC4036 ! X =   661.3000,   6090.800,    468.000,    0 !   !END!  GR_M3980
 DSC4037 ! X =   661.8000,   6090.800,    488.467,    0 !   !END!  GR_M3981
 DSC4038 ! X =   662.3000,   6090.800,    475.779,    0 !   !END!  GR_M3982
 DSC4039 ! X =   662.8000,   6090.800,    468.000,    0 !   !END!  GR_M3983
 DSC4040 ! X =   663.3000,   6090.800,    470.934,    0 !   !END!  GR_M3984
```

---

a

Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

b

Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.

APPENDIX C-2

CALPUFF INPUT (PM) - RAIL YARD DOMAIN

```
CALPUFF.INP     2.0
Joyce Lake 121-18002-01
Rail yard domain (Rev1-2014) - pm

---------------- Run title (3 lines) ------------------------------------------

                    CALPUFF MODEL CONTROL FILE
                    --------------------------

------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names

--------------
Default Name  Type           File Name
------------  ----           ---------
CALMET.DAT    input    * METDAT =             *
    or
ISCMET.DAT    input    * ISCDAT =             *
    or
PLMMET.DAT    input    * PLMDAT =             *
    or
PROFILE.DAT   input    * PRFDAT =             *
SURFACE.DAT   input    * SFCDAT =             *
RESTARTB.DAT  input    * RSTARTB=             *
------------------------------------------------------------------------------
CALPUFF.LST   output   ! PUFLST =             !
CONC.DAT      output   ! CONDAT =             !
DFLX.DAT      output   ! DFDAT  =             !
WFLX.DAT      output   * WFDAT  =             *

VISB.DAT      output   * VISDAT =             *
TK2D.DAT      output   * T2DDAT =             *
RHO2D.DAT     output   * RHODAT =             *
RESTARTE.DAT  output   ! RSTARTE=             !
------------------------------------------------------------------------------
Emission Files
--------------
PTEMARB.DAT   input    * PTDAT  =             *
VOLEMARB.DAT  input    * VOLDAT =             *
BAEMARB.DAT   input    * ARDAT  =             *
LNEMARB.DAT   input    * LNDAT  =             *
------------------------------------------------------------------------------
Other Files
-----------
OZONE.DAT     input    * OZDAT  =             *
VD.DAT        input    * VDDAT  =             *
CHEM.DAT      input    * CHEMDAT=             *
AUX           input    * AUXEXT =             *
(Extension added to METDAT filename(s) for files
 with auxiliary 2D and 3D data)
H2O2.DAT      input    * H2O2DAT=             *
NH3Z.DAT      input    * NH3ZDAT=             *
HILL.DAT      input    * HILDAT=              *
HILLRCT.DAT   input    * RCTDAT=              *
```

```
COASTLN.DAT   input    * CSTDAT=              *
FLUXBDY.DAT   input    * BDYDAT=              *
BCON.DAT      input    * BCNDAT=              *
DEBUG.DAT     output   ! DEBUG =              !
MASSFLX.DAT   output   * FLXDAT=              *
MASSBAL.DAT   output   ! BALDAT=              !
FOG.DAT       output   * FOGDAT=              *
RISE.DAT      output   * RISDAT=              *
-------------------------------------------------------------------------------
All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE
NOTE: (1) file/path names can be up to 132 characters in length


Provision for multiple input files
----------------------------------

     Number of Modeling Domains (NMETDOM)
                                    Default: 1       ! NMETDOM =  1  !

     Number of CALMET.DAT files for run (NMETDAT)
                                    Default: 1       ! NMETDAT =  2  !

     Number of PTEMARB.DAT files for run (NPTDAT)
                                    Default: 0       ! NPTDAT  =  0  !

     Number of BAEMARB.DAT files for run (NARDAT)
                                    Default: 0       ! NARDAT  =  2  !

     Number of VOLEMARB.DAT files for run (NVOLDAT)
                                    Default: 0       ! NVOLDAT = 270 !

!END!

-------------
Subgroup (0a)
-------------

  Provide a name for each CALMET domain if NMETDOM > 1
  Enter NMETDOM lines.
                                  a,b
Default Name             Domain Name
------------             ------------
 none                  * DOMAIN1=     *   *END*
 none                  * DOMAIN2=     *   *END*
 none                  * DOMAIN3=     *   *END*


  The following CALMET.DAT filenames are processed in sequence
  if NMETDAT > 1

  Enter NMETDAT lines, 1 line for each file name.
```

```
                                    a,c,d
Default Name  Type          File Name
------------  ----          ---------
! METDAT1 = C:\CALMET\CALMET01.DAT! !END!
! METDAT1 = C:\CALMET\CALMET02.DAT! !END!

-------------
```

a

The name for each CALMET domain and each CALMET.DAT file is treated as a separate input subgroup and therefore must end with an input group terminator.

b

Use DOMAIN1= to assign the name for the outermost CALMET domain.
Use DOMAIN2= to assign the name for the next inner CALMET domain.
Use DOMAIN3= to assign the name for the next inner CALMET domain, etc.

> When inner domains with equal resolution (grid-cell size) overlap, the data from the FIRST such domain in the list will be used if all other criteria for choosing the controlling grid domain are inconclusive.

c

Use METDAT1= to assign the file names for the outermost CALMET domain.
Use METDAT2= to assign the file names for the next inner CALMET domain.
Use METDAT3= to assign the file names for the next inner CALMET domain, etc.

d

The filenames for each domain must be provided in sequential order

```
-------------
Subgroup (0b)
-------------

  The following PTEMARB.DAT filenames are processed if NPTDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       * PTDAT=     *   *END*

-------------
Subgroup (0c)
-------------

  The following BAEMARB.DAT filenames are processed if NARDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! ARDAT=sp_lumpr_multispecies_XXXX.hrl!   !END!
 none         input       ! ARDAT=sp_sintr_multispecies_XXXX.hrl!   !END!

-------------
Subgroup (0d)
-------------
```

The following VOLEMARB.DAT filenames are processed if NVOLDAT>0
(Each file contains a subset of the sources, for the entire simulation)

Default Name	Type	File Name	
none	input	! VOLDAT=dump_rys_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=dump_ryl_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_ts1_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_ts2_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_ts3_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_ts4_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_tl1_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_tl2_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_tl3_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=load_tl4_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0428_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0429_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0430_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0431_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0432_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0433_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0434_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0435_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0436_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0437_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0438_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0439_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0440_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0441_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0442_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0443_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0444_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0445_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0446_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0447_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0448_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0449_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0450_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0451_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0452_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0453_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0454_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0455_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0456_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0457_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0458_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0459_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0460_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0461_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0462_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0463_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0464_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0465_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0466_multispecies_XXXX.hrl!	!END!
none	input	! VOLDAT=hlg0467_multispecies_XXXX.hrl!	!END!

```
none          input       ! VOLDAT=hlg0468_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0469_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0470_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0471_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0472_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0473_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0474_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0475_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0476_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0477_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0478_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0479_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0480_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0481_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0482_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0483_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0484_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0485_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0486_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0487_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0488_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0489_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0490_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0491_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0492_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0493_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0494_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0495_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0496_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0497_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0498_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0499_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0500_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0501_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0502_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0503_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0504_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0505_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0506_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0507_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0508_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0509_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0510_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0511_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0512_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0513_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0514_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0515_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0516_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0517_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0518_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0519_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0520_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0521_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0522_multispecies_XXXX.hrl!   !END!
```

```
none          input       ! VOLDAT=hlg0523_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0524_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0525_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0526_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0527_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0528_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0529_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0530_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0531_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0532_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0533_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0534_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0535_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0536_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0537_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0538_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0539_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0540_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0541_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0542_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0543_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg0544_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg0614_multispecies_XXXX.hrl!   !END!
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none          input       ! VOLDAT=hlg1247_multispecies_XXXX.hrl!   !END!
none          input       ! VOLDAT=hlg1248_multispecies_XXXX.hrl!   !END!
```

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--------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

    Option to run all periods found
    in the met. file     (METRUN)   Default: 0       ! METRUN =   0  !

         METRUN = 0 - Run period explicitly defined below
         METRUN = 1 - Run all periods in met. file

     Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX !
                       Month  (IBMO)  --    No default   ! IBMO  =  XX   !
                       Day    (IBDY)  --    No default   ! IBDY  =  XX   !
     Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0    !
                       Minute (IBMIN) --    No default   ! IBMIN =  0    !
                       Second (IBSEC) --    No default   ! IBSEC =  0    !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX !
                       Month  (IEMO)  --    No default   ! IEMO  =  XX   !
                       Day    (IEDY)  --    No default   ! IEDY  =  XX   !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0    !
                       Minute (IEMIN) --    No default   ! IEMIN =  0    !
                       Second (IESEC) --    No default   ! IESEC =  0    !

     (These are only used if METRUN = 0)

     Base time zone:          (ABTZ)  --    No default   ! ABTZ= UTC-0500 !
      (character*8)
     The modeling domain may span multiple time zones.  ABTZ defines the
     base time zone used for the entire simulation.  This must match the
     base time zone of the meteorological data.
     Examples:
         Los Angeles, USA          = UTC-0800
         New York, USA             = UTC-0500
         Santiago, Chile           = UTC-0400
         Greenwich Mean Time (GMT) = UTC+0000
         Rome, Italy               = UTC+0100
         Cape Town, S.Africa       = UTC+0200
         Sydney, Australia         = UTC+1000

     Length of modeling time-step (seconds)
     Equal to update period in the primary
     meteorological data files, or an
     integer fraction of it (1/2, 1/3 ...)
     Must be no larger than 1 hour
     (NSECDT)                       Default:3600     ! NSECDT =  3600  !
                                    Units: seconds

     Number of chemical species (NSPEC)
                                    Default: 5       ! NSPEC =  3   !

     Number of chemical species
     to be emitted  (NSE)           Default: 3       ! NSE   =  3   !
```

```
Flag to stop run after
SETUP phase (ITEST)             Default: 2       ! ITEST =  2   !
(Used to allow checking
of the model inputs, files, etc.)
      ITEST = 1 - STOPS program after SETUP phase
      ITEST = 2 - Continues with execution of program
                  after SETUP

Restart Configuration:

   Control flag (MRESTART)      Default: 0       ! MRESTART =  0  !

      0 = Do not read or write a restart file
      1 = Read a restart file at the beginning of
          the run
      2 = Write a restart file during run
      3 = Read a restart file at beginning of run
          and write a restart file during run

   Number of periods in Restart
   output cycle (NRESPD)        Default: 0       ! NRESPD =  0  !

      0 = File written only at last period
     >0 = File updated every NRESPD periods

Meteorological Data Format (METFM)
                                Default: 1       ! METFM  =  1  !

      METFM = 1 - CALMET binary file (CALMET.MET)
      METFM = 2 - ISC ASCII file (ISCMET.MET)
      METFM = 3 - AUSPLUME ASCII file (PLMMET.MET)
      METFM = 4 - CTDM plus tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)
      METFM = 5 - AERMET tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)

Meteorological Profile Data Format (MPRFFM)
       (used only for METFM = 1, 2, 3)
                                Default: 1       ! MPRFFM =  1  !

      MPRFFM = 1 - CTDM plus tower file (PROFILE.DAT)
      MPRFFM = 2 - AERMET tower file (PROFILE.DAT)

PG sigma-y is adjusted by the factor (AVET/PGTIME)**0.2
Averaging Time (minutes) (AVET)
                                Default: 60.0    ! AVET   = 60. !
PG Averaging Time (minutes) (PGTIME)
                                Default: 60.0    ! PGTIME = 60. !


Output units for binary concentration and flux files
written in Dataset v2.2 or later formats
(IOUTU)                         Default: 1       ! IOUTU  =  1  !
    1 = mass      -  g/m3 (conc) or g/m2/s (dep)
```

```
        2 = odour     -  odour_units (conc)
        3 = radiation -  Bq/m3 (conc) or Bq/m2/s (dep)


     Output Dataset format for binary concentration
     and flux files (e.g., CONC.DAT)
     (IOVERS)                        Default: 2       ! IOVERS =  2  !
         1 = Dataset Version 2.1
         2 = Dataset Version 2.2


!END!


------------------------------------------------------------------------------

INPUT GROUP: 2 -- Technical options
--------------


     Vertical distribution used in the
     near field (MGAUSS)                   Default: 1     ! MGAUSS =  1  !
        0 = uniform
        1 = Gaussian

     Terrain adjustment method
     (MCTADJ)                              Default: 3     ! MCTADJ =  3  !
        0 = no adjustment
        1 = ISC-type of terrain adjustment
        2 = simple, CALPUFF-type of terrain
            adjustment
        3 = partial plume path adjustment

     Subgrid-scale complex terrain
     flag (MCTSG)                          Default: 0     ! MCTSG  =  0  !
        0 = not modeled
        1 = modeled

     Near-field puffs modeled as
     elongated slugs? (MSLUG)              Default: 0     ! MSLUG  =  0  !
        0 = no
        1 = yes (slug model used)

     Transitional plume rise modeled?
     (MTRANS)                              Default: 1     ! MTRANS =  1  !
        0 = no  (i.e., final rise only)
        1 = yes (i.e., transitional rise computed)

     Stack tip downwash? (MTIP)            Default: 1     ! MTIP   =  1  !
        0 = no  (i.e., no stack tip downwash)
        1 = yes (i.e., use stack tip downwash)

     Method used to compute plume rise for
     point sources not subject to building
     downwash? (MRISE)                     Default: 1     ! MRISE  =  1  !
```

```
   1 = Briggs plume rise
   2 = Numerical plume rise

Method used to simulate building
downwash? (MBDW)                      Default: 1     ! MBDW   =  2  !
   1 = ISC method
   2 = PRIME method

Vertical wind shear modeled above
stack top (modified Briggs plume rise)?
(MSHEAR)                              Default: 0     ! MSHEAR =  0  !
   0 = no  (i.e., vertical wind shear not modeled)
   1 = yes (i.e., vertical wind shear modeled)

Puff splitting allowed? (MSPLIT)      Default: 0     ! MSPLIT =  1  !
   0 = no (i.e., puffs not split)
   1 = yes (i.e., puffs are split)

Chemical mechanism flag (MCHEM)       Default: 1     ! MCHEM  =  0  !
   0 = chemical transformation not
       modeled
   1 = transformation rates computed
       internally (MESOPUFF II scheme)
   2 = user-specified transformation
       rates used
   3 = transformation rates computed
       internally (RIVAD/ARM3 scheme)
   4 = secondary organic aerosol formation
       computed (MESOPUFF II scheme for OH)
   5 = user-specified half-life with or
       without transfer to child species
   6 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium)
   7 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium and CalTech SOA)

Aqueous phase transformation flag (MAQCHEM)
(Used only if MCHEM = 6, or 7)        Default: 0     ! MAQCHEM = 0  !
   0 = aqueous phase transformation
       not modeled
   1 = transformation rates and wet
       scavenging coefficients adjusted
       for in-cloud aqueous phase reactions
       (adapted from RADM cloud model
        implementation in CMAQ/SCICHEM)

Liquid Water Content flag (MLWC)
(Used only if MAQCHEM = 1)            Default: 1     ! MLWC   =  0  !
   0 = water content estimated from cloud cover
       and presence of precipitation
   1 = gridded cloud water data read from CALMET
       water content output files (filenames are
       the CALMET.DAT names PLUS the extension
```

```
       AUXEXT provided in Input Group 0)

Wet removal modeled ? (MWET)          Default: 1     ! MWET   =  0  !
   0 = no
   1 = yes

Dry deposition modeled ? (MDRY)       Default: 1     ! MDRY   =  1  !
   0 = no
   1 = yes
   (dry deposition method specified
    for each species in Input Group 3)


Gravitational settling (plume tilt)
modeled ? (MTILT)                     Default: 0     ! MTILT  =  0  !
   0 = no
   1 = yes
   (puff center falls at the gravitational
    settling velocity for 1 particle species)

Restrictions:
    - MDRY  = 1
    - NSPEC = 1  (must be particle species as well)
    - sg    = 0  GEOMETRIC STANDARD DEVIATION in Group 8 is
                 set to zero for a single particle diameter

Method used to compute dispersion
coefficients (MDISP)                  Default: 3     ! MDISP  =  2  !

   1 = dispersion coefficients computed from measured values
       of turbulence, sigma v, sigma w
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.
   5 = CTDM sigmas used for stable and neutral conditions.
       For unstable conditions, sigmas are computed as in
       MDISP = 3, described above.  MDISP = 5 assumes that
       measured values are read

Sigma-v/sigma-theta, sigma-w measurements used? (MTURBVW)
(Used only if MDISP = 1 or 5)         Default: 3     ! MTURBVW =  3  !
   1 = use sigma-v or sigma-theta measurements
       from PROFILE.DAT to compute sigma-y
       (valid for METFM = 1, 2, 3, 4, 5)
   2 = use sigma-w measurements
       from PROFILE.DAT to compute sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   3 = use both sigma-(v/theta) and sigma-w
       from PROFILE.DAT to compute sigma-y and sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
```

```
   4 = use sigma-theta measurements
       from PLMMET.DAT to compute sigma-y
       (valid only if METFM = 3)

Back-up method used to compute dispersion
when measured turbulence data are
missing (MDISP2)                      Default: 3     ! MDISP2 =  3  !
(used only if MDISP = 1 or 5)
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.

[DIAGNOSTIC FEATURE]
Method used for Lagrangian timescale for Sigma-y
(used only if MDISP=1,2 or MDISP2=1,2)
(MTAULY)                              Default: 0     ! MTAULY =  0  !
   0 = Draxler default 617.284 (s)
   1 = Computed as Lag. Length / (.75 q) -- after SCIPUFF
  10 < Direct user input (s)             -- e.g., 306.9


[DIAGNOSTIC FEATURE]
Method used for Advective-Decay timescale for Turbulence
(used only if MDISP=2 or MDISP2=2)
(MTAUADV)                             Default: 0     ! MTAUADV = 0  !
   0 = No turbulence advection
   1 = Computed (OPTION NOT IMPLEMENTED)
  10 < Direct user input (s)   -- e.g., 800


Method used to compute turbulence sigma-v &
sigma-w using micrometeorological variables
(Used only if MDISP = 2 or MDISP2 = 2)
(MCTURB)                              Default: 1     ! MCTURB =  1  !
   1 = Standard CALPUFF subroutines
   2 = AERMOD subroutines

PG sigma-y,z adj. for roughness?      Default: 0     ! MROUGH =  0  !
(MROUGH)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTL =  1  !
elevated inversion modeled for
point sources?
(MPARTL)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTLBA = 1 !
```

```
elevated inversion modeled for
buoyant area sources?
(MPARTLBA)
   0 = no
   1 = yes

Strength of temperature inversion     Default: 0     ! MTINV  =  0  !
provided in PROFILE.DAT extended records?
(MTINV)
   0 = no (computed from measured/default gradients)
   1 = yes

PDF used for dispersion under convective conditions?
                                      Default: 0     ! MPDF   =  1  !
(MPDF)
   0 = no
   1 = yes

Sub-Grid TIBL module used for shore line?
                                      Default: 0     ! MSGTIBL = 0  !
(MSGTIBL)
   0 = no
   1 = yes

Boundary conditions (concentration) modeled?
                                      Default: 0     ! MBCON  =  0  !
(MBCON)
   0 = no
   1 = yes, using formatted BCON.DAT file
   2 = yes, using unformatted CONC.DAT file

Note:  MBCON > 0 requires that the last species modeled
       be 'BCON'.  Mass is placed in species BCON when
       generating boundary condition puffs so that clean
       air entering the modeling domain can be simulated
       in the same way as polluted air.  Specify zero
       emission of species BCON for all regular sources.

Individual source contributions saved?
                                      Default: 0     ! MSOURCE = 0  !
(MSOURCE)
   0 = no
   1 = yes


Analyses of fogging and icing impacts due to emissions from
arrays of mechanically-forced cooling towers can be performed
using CALPUFF in conjunction with a cooling tower emissions
processor (CTEMISS) and its associated postprocessors.  Hourly
emissions of water vapor and temperature from each cooling tower
cell are computed for the current cell configuration and ambient
conditions by CTEMISS. CALPUFF models the dispersion of these
emissions and provides cloud information in a specialized format
for further analysis. Output to FOG.DAT is provided in either
'plume mode' or 'receptor mode' format.
```

```
     Configure for FOG Model output?
                                          Default: 0     ! MFOG   =  0  !
     (MFOG)
        0 = no
        1 = yes  - report results in PLUME Mode format
        2 = yes  - report results in RECEPTOR Mode format


     Test options specified to see if
     they conform to regulatory
     values? (MREG)                       Default: 1     ! MREG   =  0  !

        0 = NO checks are made
        1 = Technical options must conform to USEPA
            Long Range Transport (LRT) guidance
                       METFM    1 or 2
                       AVET     60. (min)
                       PGTIME   60. (min)
                       MGAUSS   1
                       MCTADJ   3
                       MTRANS   1
                       MTIP     1
                       MRISE    1
                       MCHEM    1 or 3 (if modeling SOx, NOx)
                       MWET     1
                       MDRY     1
                       MDISP    2 or 3
                       MPDF     0 if MDISP=3
                                1 if MDISP=2
                       MROUGH   0
                       MPARTL   1
                       MPARTLBA 0
                       SYTDEP   550. (m)
                       MHFTSZ   0
                       SVMIN    0.5 (m/s)


!END!


-------------------------------------------------------------------------------

INPUT GROUP: 3a, 3b -- Species list
-------------------

------------
Subgroup (3a)
------------

  The following species are modeled:

! CSPEC     = P1   ! !END!
! CSPEC     = P2   ! !END!
! CSPEC     = P3   ! !END!
```

```
                                                        Dry                 OUTPUT GROUP
    SPECIES          MODELED          EMITTED       DEPOSITED                NUMBER
     NAME         (0=NO, 1=YES)    (0=NO, 1=YES)    (0=NO,                (0=NONE,
   (Limit: 12                                         1=COMPUTED-GAS        1=1st CGRUP,
    Characters                                        2=COMPUTED-PARTICLE   2=2nd CGRUP,
    in length)                                        3=USER-SPECIFIED)     3= etc.)

!      P1 =             1,               1,              2,                   0  !
!      P2 =             1,               1,              2,                   0  !
!      P3 =             1,               1,              2,                   0  !
!END!
```

Note: The last species in (3a) must be 'BCON' when using the boundary condition option (MBCON > 0). Species BCON should typically be modeled as inert (no chem transformation or removal).

Subgroup (3b)

The following names are used for Species-Groups in which results for certain species are combined (added) prior to output. The CGRUP name will be used as the species name in output files. Use this feature to model specific particle-size distributions by treating each size-range as a separate species. Order must be consistent with 3(a) above.

INPUT GROUP: 4 -- Map Projection and Grid control parameters

Projection for all (X,Y):

Map projection
(PMAP) Default: UTM ! PMAP = UTM !

UTM : Universal Transverse Mercator
TTM : Tangential Transverse Mercator
LCC : Lambert Conformal Conic
PS : Polar Stereographic
EM : Equatorial Mercator
LAZA : Lambert Azimuthal Equal Area

False Easting and Northing (km) at the projection origin
(Used only if PMAP= TTM, LCC, or LAZA)
(FEAST) Default=0.0 ! FEAST = 0.000 !
(FNORTH) Default=0.0 ! FNORTH = 0.000 !

UTM zone (1 to 60)

```
(Used only if PMAP=UTM)
(IUTMZN)                    No Default      ! IUTMZN =  19 !

Hemisphere for UTM projection?
(Used only if PMAP=UTM)
(UTMHEM)                    Default: N      ! UTMHEM =   N !
    N   :  Northern hemisphere projection
    S   :  Southern hemisphere projection

Latitude and Longitude (decimal degrees) of projection origin
(Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
(RLAT0)                     No Default      * RLAT0 = 0N  *
(RLON0)                     No Default      * RLON0 = 0E  *

    TTM :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    LCC :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    PS  :  RLON0 identifies central (grid N/S) meridian of projection
           RLAT0 selected for convenience
    EM  :  RLON0 identifies central meridian of projection
           RLAT0 is REPLACED by 0.0N (Equator)
    LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
           RLAT0 identifies latitude of tangent-point of mapping plane

Matching parallel(s) of latitude (decimal degrees) for projection
(Used only if PMAP= LCC or PS)
(XLAT1)                     No Default      * XLAT1 = 0N  *
(XLAT2)                     No Default      * XLAT2 = 0N  *

    LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
    PS  :  Projection plane slices through Earth at XLAT1
           (XLAT2 is not used)

----------
Note:  Latitudes and longitudes should be positive, and include a
       letter N,S,E, or W indicating north or south latitude, and
       east or west longitude.  For example,
       35.9  N Latitude  =  35.9N
       118.7 E Longitude = 118.7E


Datum-region
------------

The Datum-Region for the coordinates is identified by a character
string.  Many mapping products currently available use the model of the
Earth known as the World Geodetic System 1984 (WGS-84).  Other local
models may be in use, and their selection in CALMET will make its output
consistent with local mapping products.  The list of Datum-Regions with
official transformation parameters is provided by the National Imagery and
Mapping Agency (NIMA).

NIMA Datum - Regions(Examples)
------------------------------------------------------------------------
```

```
     WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
     NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
     NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
     NWS-84    NWS 6370KM Radius, Sphere
     ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

     Datum-region for output coordinates
     (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


METEOROLOGICAL Grid:

     Rectangular grid defined for projection PMAP,
     with X the Easting and Y the Northing coordinate

           No. X grid cells (NX)      No default     ! NX =   80    !
           No. Y grid cells (NY)      No default     ! NY =   90    !
       No. vertical layers (NZ)       No default     ! NZ =   10    !

         Grid spacing (DGRIDKM)       No default     ! DGRIDKM = .1 !
                                      Units: km

              Cell face heights
                  (ZFACE(nz+1))       No defaults
                                      Units: m
   ! ZFACE = .0, 20.0, 40.0, 80.0, 160.0, 300.0, 600.0, 1000.0, 1500.0, 2000.0, 2500.0 !

           Reference Coordinates
          of SOUTHWEST corner of
                grid cell(1, 1):

           X coordinate (XORIGKM)     No default     ! XORIGKM =  647.700 !
           Y coordinate (YORIGKM)     No default     ! YORIGKM = 6054.500 !
                                     Units: km


COMPUTATIONAL Grid:

     The computational grid is identical to or a subset of the MET. grid.
     The lower left (LL) corner of the computational grid is at grid point
     (IBCOMP, JBCOMP) of the MET. grid.  The upper right (UR) corner of the
     computational grid is at grid point (IECOMP, JECOMP) of the MET. grid.
     The grid spacing of the computational grid is the same as the MET. grid.

        X index of LL corner (IBCOMP)      No default     ! IBCOMP =   1  !
                  (1 <= IBCOMP <= NX)

        Y index of LL corner (JBCOMP)      No default     ! JBCOMP =   1  !
                  (1 <= JBCOMP <= NY)


        X index of UR corner (IECOMP)      No default     ! IECOMP =  80  !
                  (1 <= IECOMP <= NX)

        Y index of UR corner (JECOMP)      No default     ! JECOMP =  90  !
```

```
                  (1 <= JECOMP <= NY)


SAMPLING Grid (GRIDDED RECEPTORS):

     The lower left (LL) corner of the sampling grid is at grid point
     (IBSAMP, JBSAMP) of the MET. grid.  The upper right (UR) corner of the
     sampling grid is at grid point (IESAMP, JESAMP) of the MET. grid.
     The sampling grid must be identical to or a subset of the computational
     grid.  It may be a nested grid inside the computational grid.
     The grid spacing of the sampling grid is DGRIDKM/MESHDN.

        Logical flag indicating if gridded
        receptors are used (LSAMP)         Default: T     ! LSAMP  =  F  !
        (T=yes, F=no)

        X index of LL corner (IBSAMP)      No default     ! IBSAMP =  0  !
         (IBCOMP <= IBSAMP <= IECOMP)

        Y index of LL corner (JBSAMP)      No default     ! JBSAMP =  0  !
         (JBCOMP <= JBSAMP <= JECOMP)


        X index of UR corner (IESAMP)      No default     ! IESAMP =  0  !
         (IBCOMP <= IESAMP <= IECOMP)

        Y index of UR corner (JESAMP)      No default     ! JESAMP =  0  !
         (JBCOMP <= JESAMP <= JECOMP)


       Nesting factor of the sampling
        grid (MESHDN)                      Default: 1     ! MESHDN =  1  !
        (MESHDN is an integer >= 1)

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 5 -- Output Options
--------------
                                          *                          *
     FILE                        DEFAULT VALUE             VALUE THIS RUN
     ----                        -------------             --------------

   Concentrations (ICON)               1                  !  ICON  =  1  !
   Dry Fluxes (IDRY)                   1                  !  IDRY  =  0  !
   Wet Fluxes (IWET)                   1                  !  IWET  =  0  !
   2D Temperature (IT2D)               0                  !  IT2D  =  0  !
   2D Density (IRHO)                   0                  !  IRHO  =  0  !
   Relative Humidity (IVIS)            1                  !  IVIS  =  0  !
    (relative humidity file is
     required for visibility
```

```
  analysis)
Use data compression option in output file?
(LCOMPRS)                          Default: T         ! LCOMPRS = T  !

*
 0 = Do not create file, 1 = create file


 QA PLOT FILE OUTPUT OPTION:

    Create a standard series of output files (e.g.
    locations of sources, receptors, grids ...)
    suitable for plotting?
    (IQAPLOT)                      Default: 1         ! IQAPLOT = 0  !
      0 = no
      1 = yes

 DIAGNOSTIC PUFF-TRACKING OUTPUT OPTION:

    Puff locations and properties reported to
    PFTRAK.DAT file for postprocessing?
    (IPFTRAK)                      Default: 0         ! IPFTRAK = 0  !
      0 = no
      1 = yes, update puff output at end of each timestep
      2 = yes, update puff output at end of each sampling step

 DIAGNOSTIC MASS FLUX OUTPUT OPTIONS:

    Mass flux across specified boundaries
    for selected species reported?
    (IMFLX)                        Default: 0         ! IMFLX  =  0  !
      0 = no
      1 = yes (FLUXBDY.DAT and MASSFLX.DAT filenames
               are specified in Input Group 0)

    Mass balance for each species
    reported?
    (IMBAL)                        Default: 0         ! IMBAL  =  1  !
      0 = no
      1 = yes (MASSBAL.DAT filename is
           specified in Input Group 0)


 NUMERICAL RISE OUTPUT OPTION:

    Create a file with plume properties for each rise
    increment, for each model timestep?
    This applies to sources modeled with numerical rise
    and is limited to ONE source in the run.
    (INRISE)                       Default: 0         ! INRISE =  0  !
      0 = no
      1 = yes (RISE.DAT filename is
               specified in Input Group 0)
```

```
 LINE PRINTER OUTPUT OPTIONS:

    Print concentrations (ICPRT)    Default: 0         ! ICPRT  =  0  !
    Print dry fluxes (IDPRT)        Default: 0         ! IDPRT  =  0  !
    Print wet fluxes (IWPRT)        Default: 0         ! IWPRT  =  0  !
    (0 = Do not print, 1 = Print)

    Concentration print interval
    (ICFRQ) in timesteps            Default: 1         ! ICFRQ  =  1  !
    Dry flux print interval
    (IDFRQ) in timesteps            Default: 1         ! IDFRQ  =  1  !
    Wet flux print interval
    (IWFRQ) in timesteps            Default: 1         ! IWFRQ  =  1  !

    Units for Line Printer Output
    (IPRTU)                         Default: 1         ! IPRTU  =  3  !
                   for              for
              Concentration    Deposition
        1 =       g/m**3          g/m**2/s
        2 =      mg/m**3         mg/m**2/s
        3 =      ug/m**3         ug/m**2/s
        4 =      ng/m**3         ng/m**2/s
        5 =     Odour Units

    Messages tracking progress of run
    written to the screen ?
    (IMESG)                         Default: 2         ! IMESG  =  2  !
      0 = no
      1 = yes (advection step, puff ID)
      2 = yes (YYYYJJJHH, # old puffs, # emitted puffs)


  SPECIES (or GROUP for combined species) LIST FOR OUTPUT OPTIONS

              ---- CONCENTRATIONS ----   ------ DRY FLUXES ------   ------ WET FLUXES
              ------   -- MASS FLUX --
 SPECIES
 /GROUP       PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON
 DISK?   SAVED ON DISK?
 -------      ------------------------   ------------------------
 -----------------------   ---------------

!          P1 =    0,           1,            0,           1,            0,
0,              0   !
!          P2 =    0,           1,            0,           1,            0,
0,              0   !
!          P3 =    0,           1,            0,           1,            0,
0,              0   !

  Note:  Species BCON (for MBCON > 0) does not need to be saved on disk.


  OPTIONS FOR PRINTING "DEBUG" QUANTITIES (much output)

    Logical for debug output
    (LDEBUG)                                Default: F     ! LDEBUG =  F  !
```

```
       First puff to track
       (IPFDEB)                                Default: 1     ! IPFDEB =  1  !

       Number of puffs to track
       (NPFDEB)                                Default: 1     ! NPFDEB =  1  !

       Met. period to start output
       (NN1)                                   Default: 1     ! NN1 =     1  !

       Met. period to end output
       (NN2)                                   Default: 10    ! NN2 =    10  !

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs
-------------------------

---------------
Subgroup (6a)
---------------
       Number of terrain features (NHILL)      Default: 0     ! NHILL  =  0  !

       Number of special complex terrain
       receptors  (NCTREC)                     Default: 0     ! NCTREC =  0  !

       Terrain and CTSG Receptor data for
       CTSG hills input in CTDM format ?
       (MHILL)                                 No Default     ! MHILL  =  2  !
       1 = Hill and Receptor data created
           by CTDM processors & read from
           HILL.DAT and HILLRCT.DAT files
       2 = Hill data created by OPTHILL &
           input below in Subgroup (6b);
           Receptor data in Subgroup (6c)

       Factor to convert horizontal dimensions  Default: 1.0   ! XHILL2M = 1.0 !
       to meters (MHILL=1)

       Factor to convert vertical dimensions    Default: 1.0   ! ZHILL2M = 1.0 !
       to meters (MHILL=1)

       X-origin of CTDM system relative to      No Default     ! XCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

       Y-origin of CTDM system relative to      No Default     ! YCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

! END !

---------------
```

Subgroup (6b)
---

1 **
HILL information

HILL NO.	XC (km)	YC (km)	THETAH (deg.)	ZGRID (m)	RELIEF (m)	EXPO 1 (m)	EXPO 2 (m)	SCALE 1 (m)	SCALE 2 (m)	AMAX1 (m)	AMAX2 (m)

Subgroup (6c)

COMPLEX TERRAIN RECEPTOR INFORMATION

XRCT (km)	YRCT (km)	ZRCT (m)	XHH

1
Description of Complex Terrain Variables:
XC, YC = Coordinates of center of hill
THETAH = Orientation of major axis of hill (clockwise from North)
ZGRID = Height of the 0 of the grid above mean sea level
RELIEF = Height of the crest of the hill above the grid elevation
EXPO 1 = Hill-shape exponent for the major axis
EXPO 2 = Hill-shape exponent for the major axis
SCALE 1 = Horizontal length scale along the major axis
SCALE 2 = Horizontal length scale along the minor axis
AMAX = Maximum allowed axis length for the major axis
BMAX = Maximum allowed axis length for the major axis

XRCT, YRCT = Coordinates of the complex terrain receptors
ZRCT = Height of the ground (MSL) at the complex terrain Receptor
XHH = Hill number associated with each complex terrain receptor (NOTE: MUST BE ENTERED AS A REAL NUMBER)

**
NOTE: DATA for each hill and CTSG receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUP: 7 -- Chemical parameters for dry deposition of gases

```
--------------

      SPECIES     DIFFUSIVITY      ALPHA STAR      REACTIVITY    MESOPHYLL RESISTANCE
      HENRY'S LAW COEFFICIENT
       NAME        (cm**2/s)                                          (s/cm)
       (dimensionless)
      -------     -----------      ----------      ----------    --------------------
      ------------------------

!END!

-------------------------------------------------------------------------------


INPUT GROUP: 8 -- Size parameters for dry deposition of particles
--------------

     For SINGLE SPECIES, the mean and standard deviation are used to
     compute a deposition velocity for NINT (see group 9) size-ranges,
     and these are then averaged to obtain a mean deposition velocity.

     For GROUPED SPECIES, the size distribution should be explicitly
     specified (by the 'species' in the group), and the standard deviation
     for each should be entered as 0.  The model will then use the
     deposition velocity for the stated mean diameter.

      SPECIES      GEOMETRIC MASS MEAN        GEOMETRIC STANDARD
       NAME             DIAMETER                   DEVIATION
                        (microns)                  (microns)
      -------      -------------------        ------------------
      ! P1    =           2.86,                    1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
      ! P2    =          11.25,                    1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
      ! P3    =          44.79,                    1.2418578   !  *NL guideline values for
      particle density of 5g/cm3
!END!

-------------------------------------------------------------------------------


INPUT GROUP: 9 -- Miscellaneous dry deposition parameters
--------------

     Reference cuticle resistance (s/cm)
     (RCUTR)                          Default: 30    !  RCUTR = 30.0 !
     Reference ground resistance  (s/cm)
     (RGR)                            Default: 10    !    RGR = 10.0 !
     Reference pollutant reactivity
     (REACTR)                         Default: 8     ! REACTR =  8.0 !

     Number of particle-size intervals used to
     evaluate effective particle deposition velocity
     (NINT)                           Default: 9     !   NINT =   5  !
```

```
     Vegetation state in unirrigated areas
     (IVEG)                           Default: 1     !   IVEG =   1  !
        IVEG=1 for active and unstressed vegetation
        IVEG=2 for active and stressed vegetation
        IVEG=3 for inactive vegetation

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 10 -- Wet Deposition Parameters
---------------


                      Scavenging Coefficient -- Units: (sec)**(-1)

       Pollutant      Liquid Precip.       Frozen Precip.
       ---------      --------------       --------------

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 11a, 11b -- Chemistry Parameters
---------------------

---------------
Subgroup (11a)
---------------

     Several parameters are needed for one or more of the chemical transformation
     mechanisms.  Those used for each mechanism are:
                                         M                 B
                                         A  B  R  R  R     C  B        N
                                   B     V  C  N  N  N  M  K  C  O     D
                                   C  M  G  K  I  I  I  H  H  K  F  V  E
                                M  K  N  N  N  T  T  T  2  2  P  R  C  C
                                O  O  H  H  H  E  E  E  O  O  M  A  N  A
     Mechanism (MCHEM)          Z  3  3  3  3  1  2  3  2  2  F  C  X  Y
     --------------------    --------------------------------------------
     0 None                     .  .  .  .  .  .  .  .  .  .  .  .  .  .
     1 MESOPUFF II              X  X  .  .  X  X  X  X  .  .  .  .  .  .
     2 User Rates               .  .  .  .  .  .  .  .  .  .  .  .  .  .
     3 RIVAD                    X  X  .  .  X  .  .  .  .  .  .  .  .  .
     4 SOA                      X  X  .  .  .  .  .  .  .  .  X  X  X  .
     5 Radioactive Decay        .  .  .  .  .  .  .  .  .  .  .  .  .  X
     6 RIVAD/ISORRPIA           X  X  X  X  X  X  .  .  X  X  .  .  .  .
     7 RIVAD/ISORRPIA/SOA       X  X  X  X  X  X  .  .  X  X  X  X  .  .


     Ozone data input option (MOZ)     Default: 1            ! MOZ =  0   !
```

```
 (Used only if MCHEM = 1, 3, 4, 6, or 7)
    0 = use a monthly background ozone value
    1 = read hourly ozone concentrations from
        the OZONE.DAT data file

 Monthly ozone concentrations in ppb (BCKO3)
 (Used only if MCHEM = 1,3,4,6, or 7 and either
    MOZ = 0, or
    MOZ = 1 and all hourly O3 data missing)
                                   Default: 12*80.
 !  BCKO3 = 32.0, 34.0, 37.0, 38.0, 32.0, 26.0, 23.0, 21.0, 23.0, 25.0, 28.0, 31.0 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

 Ammonia data option (MNH3)        Default: 0            ! MNH3 =  0   !
 (Used only if MCHEM = 6 or 7)
    0 = use monthly background ammonia values (BCKNH3) - no vertical variation
    1 = read monthly background ammonia values for each layer from
        the NH3Z.DAT data file

 Ammonia vertical averaging option (MAVGNH3)
 (Used only if MCHEM = 6 or 7, and MNH3 = 1)
    0 = use NH3 at puff center height (no averaging is done)
    1 = average NH3 values over vertical extent of puff
                                   Default: 1            ! MAVGNH3 =  1   !

 Monthly ammonia concentrations in ppb (BCKNH3)
 (Used only if MCHEM = 1 or 3, or
            if MCHEM = 6 or 7, and MNH3 = 0)
                                   Default: 12*10.
 !  BCKNH3 = 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

 Nighttime SO2 loss rate in %/hour (RNITE1)
 (Used only if MCHEM = 1, 6 or 7)
 This rate is used only at night for MCHEM=1
 and is added to the computed rate both day
 and night for MCHEM=6,7 (heterogeneous reactions)
                                   Default: 0.2          ! RNITE1 = 0.2 !

 Nighttime NOx loss rate in %/hour (RNITE2)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE2 = 2.0 !

 Nighttime HNO3 formation rate in %/hour (RNITE3)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE3 = 2.0 !

 H2O2 data input option (MH2O2)    Default: 1            ! MH2O2 =  0   !
 (Used only if MCHEM = 6 or 7, and MAQCHEM = 1)
    0 = use a monthly background H2O2 value
    1 = read hourly H2O2 concentrations from
```

the H2O2.DAT data file

Monthly H2O2 concentrations in ppb (BCKH2O2)
(Used only if MQACHEM = 1 and either
MH2O2 = 0 or
MH2O2 = 1 and all hourly H2O2 data missing)
Default: 12*1.
! BCKH2O2 = 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background Concentrations

---

--- Data for SECONDARY ORGANIC AEROSOL (SOA) Options
(used only if MCHEM = 4 or 7)

The MCHEM = 4 SOA module uses monthly values of:
Fine particulate concentration in ug/m^3 (BCKPMF)
Organic fraction of fine particulate (OFRAC)
VOC / NOX ratio (after reaction) (VCNX)

The MCHEM = 7 SOA module uses monthly values of:
Fine particulate concentration in ug/m^3 (BCKPMF)
Organic fraction of fine particulate (OFRAC)

These characterize the air mass when computing
the formation of SOA from VOC emissions.
Typical values for several distinct air mass types are:

Month	1 Jan	2 Feb	3 Mar	4 Apr	5 May	6 Jun	7 Jul	8 Aug	9 Sep	10 Oct	11 Nov	12 Dec
Clean Continental												
BCKPMF	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
OFRAC	.15	.15	.20	.20	.20	.20	.20	.20	.20	.20	.20	.15
VCNX	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.
Clean Marine (surface)												
BCKPMF	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OFRAC	.25	.25	.30	.30	.30	.30	.30	.30	.30	.30	.30	.25
VCNX	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.
Urban - low biogenic (controls present)												
BCKPMF	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.
OFRAC	.20	.20	.25	.25	.25	.25	.25	.25	.20	.20	.20	.20
VCNX	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
Urban - high biogenic (controls present)												
BCKPMF	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.
OFRAC	.25	.25	.30	.30	.30	.55	.55	.55	.35	.35	.35	.25
VCNX	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
Regional Plume												
BCKPMF	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.
OFRAC	.20	.20	.25	.35	.25	.40	.40	.40	.30	.30	.30	.20
VCNX	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.

```
     Urban - no controls present
        BCKPMF 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100.
        OFRAC  .30  .30  .35  .35  .35  .55  .55  .55  .35  .35  .35  .30
        VCNX     2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.

     Default: Clean Continental
     !  BCKPMF = 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00 !
     !  OFRAC  = 0.15, 0.15, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.15 !
     !  VCNX   = 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00,
     50.00 !

 --- End Data for SECONDARY ORGANIC AEROSOL (SOA) Option


     Number of half-life decay specification blocks provided in Subgroup 11b
     (Used only if MCHEM = 5)
     (NDECAY)                                    Default: 0      ! NDECAY =  0   !

!END!
```

Subgroup (11b)

Each species modeled may be assigned a decay half-life (sec), and the associated mass lost may be assigned to one or more other modeled species using a mass yield factor. This information is used only for MCHEM=5.

Provide NDECAY blocks assigning the half-life for a parent species and mass yield factors for each child species (if any) produced by the decay.
Set HALF_LIFE=0.0 for NO decay (infinite half-life).

```
                            a            b
        SPECIES      Half-Life   Mass Yield
         NAME          (sec)       Factor
        -------      ---------   ----------

     *   SPEC1   =    3600.,        -1.0   *    (Parent)
     *   SPEC2   =     -1.0,         0.0   *    (Child)
    *END*
```

---

a

Specify a half life that is greater than or equal to zero for 1 parent species in each block, and set the yield factor for this species to -1

b

Specify a yield factor that is greater than or equal to zero for 1 or more child species in each block, and set the half-life for each of these species to -1

NOTE: Assignments in each block are treated as a separate input subgroup and therefore must end with an input group terminator. If NDECAY=0, no assignments and input group terminators should appear.

```
--------------------------------------------------------------------------------


INPUT GROUP: 12 -- Misc. Dispersion and Computational Parameters
---------------

     Horizontal size of puff (m) beyond which
     time-dependent dispersion equations (Heffter)
     are used to determine sigma-y and
     sigma-z (SYTDEP)                          Default: 550.   ! SYTDEP = 550. !

     Switch for using Heffter equation for sigma z
     as above (0 = Not use Heffter; 1 = use Heffter
     (MHFTSZ)                                  Default: 0      ! MHFTSZ =  0   !

     Stability class used to determine plume
     growth rates for puffs above the boundary
     layer (JSUP)                              Default: 5      ! JSUP =  5   !

     Vertical dispersion constant for stable
     conditions (k1 in Eqn. 2.7-3)  (CONK1)    Default: 0.01   ! CONK1 = 0.01 !

     Vertical dispersion constant for neutral/
     unstable conditions (k2 in Eqn. 2.7-4)
     (CONK2)                                   Default: 0.1    ! CONK2 = 0.1 !

     Factor for determining Transition-point from
     Schulman-Scire to Huber-Snyder Building Downwash
     scheme (SS used for Hs < Hb + TBD * HL)
     (TBD)                                     Default: 0.5    ! TBD = 0.5 !
        TBD < 0   ==> always use Huber-Snyder
        TBD = 1.5 ==> always use Schulman-Scire
        TBD = 0.5 ==> ISC Transition-point

     Range of land use categories for which
     urban dispersion is assumed
     (IURB1, IURB2)                            Default: 10     ! IURB1 =  10  !
                                                        19     ! IURB2 =  19  !

     Site characterization parameters for single-point Met data files ---------
     (needed for METFM = 2,3,4,5)

        Land use category for modeling domain
        (ILANDUIN)                             Default: 20     ! ILANDUIN =  20 !

        Roughness length (m) for modeling domain
        (Z0IN)                                 Default: 0.25   ! Z0IN =  0.25 !

        Leaf area index for modeling domain
        (XLAIIN)                               Default: 3.0    ! XLAIIN = 3.0 !

        Elevation above sea level (m)
        (ELEVIN)                               Default: 0.0    ! ELEVIN = 0.0 !
```

```
   Latitude (degrees) for met location
   (XLATIN)                                Default: -999.  ! XLATIN = -999. !

   Longitude (degrees) for met location
   (XLONIN)                                Default: -999.  ! XLONIN = -999. !

Specialized information for interpreting single-point Met data files -----

   Anemometer height (m) (Used only if METFM = 2,3)
   (ANEMHT)                                Default: 10.    ! ANEMHT = 10.0 !

   Form of lateral turbulance data in PROFILE.DAT file
   (Used only if METFM = 4,5 or MTURBVW = 1 or 3)
   (ISIGMAV)                               Default: 1      ! ISIGMAV =   1 !
       0 = read sigma-theta
       1 = read sigma-v

   Choice of mixing heights (Used only if METFM = 4)
   (IMIXCTDM)                              Default: 0      ! IMIXCTDM =  0 !
       0 = read PREDICTED mixing heights
       1 = read OBSERVED mixing heights

Maximum length of a slug (met. grid units)
(XMXLEN)                                   Default: 1.0    ! XMXLEN =  1.0 !

Maximum travel distance of a puff/slug (in
grid units) during one sampling step
(XSAMLEN)                                  Default: 1.0    ! XSAMLEN = 1.0 !

Maximum Number of slugs/puffs release from
one source during one time step
(MXNEW)                                    Default: 99     ! MXNEW =  99   !

Maximum Number of sampling steps for
one puff/slug during one time step
(MXSAM)                                    Default: 99     ! MXSAM =  99   !

Number of iterations used when computing
the transport wind for a sampling step
that includes gradual rise (for CALMET
and PROFILE winds)
(NCOUNT)                                   Default: 2      ! NCOUNT =  2  !

Minimum sigma y for a new puff/slug (m)
(SYMIN)                                    Default: 1.0    ! SYMIN = 1.0  !

Minimum sigma z for a new puff/slug (m)
(SZMIN)                                    Default: 1.0    ! SZMIN = 1.0  !

Maximum sigma z (m) allowed to avoid
numerical problem in calculating virtual
time or distance.  Cap should be large
enough to have no influence on normal events.
Enter a negative cap to disable.
(SZCAP_M)                                  Default: 5.0E06 ! SZCAP_M = 5.0E06 !
```

Default minimum turbulence velocities sigma-v and sigma-w
for each stability class over land and over water (m/s)
(SVMIN(12) and SWMIN(12))

	LAND						WATER					
Stab Class :	A	B	C	D	E	F	A	B	C	D	E	F
Default SVMIN :	.50,	.50,	.50,	.50,	.50,	.50,	.37,	.37,	.37,	.37,	.37,	.37
Default SWMIN :	.20,	.12,	.08,	.06,	.03,	.016,	.20,	.12,	.08,	.06,	.03,	.016

! SVMIN = 0.500, 0.500, 0.500, 0.500, 0.500, 0.500, 0.370, 0.370, 0.370, 0.370, 0.370, 0.370!
! SWMIN = 0.200, 0.120, 0.080, 0.060, 0.030, 0.016, 0.200, 0.120, 0.080, 0.060, 0.030, 0.016!

Divergence criterion for dw/dz across puff
used to initiate adjustment for horizontal
convergence (1/s)
Partial adjustment starts at CDIV(1), and
full adjustment is reached at CDIV(2)
(CDIV(2)) Default: 0.0,0.0 ! CDIV = 0.0, 0.0 !

Search radius (number of cells) for nearest
land and water cells used in the subgrid
TIBL module
(NLUTIBL) Default: 4 ! NLUTIBL = 4 !

Minimum wind speed (m/s) allowed for
non-calm conditions. Also used as minimum
speed returned when using power-law
extrapolation toward surface
(WSCALM) Default: 0.5 ! WSCALM = 0.5 !

Maximum mixing height (m)
(XMAXZI) Default: 3000. ! XMAXZI = 3000.0 !

Minimum mixing height (m)
(XMINZI) Default: 50. ! XMINZI = 50. !

Default wind speed classes --
5 upper bounds (m/s) are entered;
the 6th class has no upper limit
(WSCAT(5)) Default :
ISC RURAL : 1.54, 3.09, 5.14, 8.23, 10.80 (10.8+)

Wind Speed Class :	1	2	3	4	5

! WSCAT = 1.54, 3.09, 5.14, 8.23, 10.80 !

Default wind speed profile power-law
exponents for stabilities 1-6
(PLX0(6)) Default : ISC RURAL values
ISC RURAL : .07, .07, .10, .15, .35, .55
ISC URBAN : .15, .15, .20, .25, .30, .30

```
                          Stability Class :  A     B     C     D     E     F
                                            ---   ---   ---   ---   ---   ---
                                   ! PLX0 = 0.07, 0.07, 0.10, 0.15, 0.35, 0.55 !

Default potential temperature gradient
for stable classes E, F (degK/m)
(PTG0(2))                        Default:    0.020,   0.035
                                    ! PTG0 = 0.020,   0.035 !

Default plume path coefficients for
each stability class (used when option
for partial plume height terrain adjustment
is selected -- MCTADJ=3)
(PPC(6))                  Stability Class :  A     B     C     D     E     F
                             Default  PPC : .50,  .50,  .50,  .50,  .35,  .35
                                            ---   ---   ---   ---   ---   ---
                                   !  PPC = 0.50, 0.50, 0.50, 0.50, 0.35, 0.35 !

Slug-to-puff transition criterion factor
equal to sigma-y/length of slug
(SL2PF)                              Default: 10.        ! SL2PF = 10.0 !

Puff-splitting control variables ------------------------

  VERTICAL SPLIT
  --------------

  Number of puffs that result every time a puff
  is split - nsplit=2 means that 1 puff splits
  into 2
  (NSPLIT)                           Default:   3        ! NSPLIT =  3  !

  Time(s) of a day when split puffs are eligible to
  be split once again; this is typically set once
  per day, around sunset before nocturnal shear develops.
  24 values: 0 is midnight (00:00) and 23 is 11 PM (23:00)
  0=do not re-split    1=eligible for re-split
  (IRESPLIT(24))                     Default:  Hour 17 = 1
  !  IRESPLIT = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0 !

  Split is allowed only if last hour's mixing
  height (m) exceeds a minimum value
  (ZISPLIT)                          Default: 100.       ! ZISPLIT = 100.0 !

  Split is allowed only if ratio of last hour's
  mixing ht to the maximum mixing ht experienced
  by the puff is less than a maximum value (this
  postpones a split until a nocturnal layer develops)
  (ROLDMAX)                          Default: 0.25       ! ROLDMAX = 0.25 !


  HORIZONTAL SPLIT
  ----------------
```

```
      Number of puffs that result every time a puff
      is split - nsplith=5 means that 1 puff splits
      into 5
      (NSPLITH)                          Default:   5        ! NSPLITH =  5   !

      Minimum sigma-y (Grid Cells Units) of puff
      before it may be split
      (SYSPLITH)                         Default:  1.0       ! SYSPLITH = 1.0 !

      Minimum puff elongation rate (SYSPLITH/hr) due to
      wind shear, before it may be split
      (SHSPLITH)                         Default:  2.        ! SHSPLITH = 2.0 !

      Minimum concentration (g/m^3) of each
      species in puff before it may be split
      Enter array of NSPEC values; if a single value is
      entered, it will be used for ALL species
      (CNSPLITH)                         Default:  1.0E-07   ! CNSPLITH = 1.0E-07 !

    Integration control variables ------------------------

      Fractional convergence criterion for numerical SLUG
      sampling integration
      (EPSSLUG)                          Default:   1.0E-04  ! EPSSLUG =  1.0E-04 !

      Fractional convergence criterion for numerical AREA
      source integration
      (EPSAREA)                          Default:   1.0E-06  ! EPSAREA =  1.0E-06 !

      Trajectory step-length (m) used for numerical rise
      integration
      (DSRISE)                           Default:   1.0      ! DSRISE = 1.0 !

      Boundary Condition (BC) Puff control variables -------------------------

      Minimum height (m) to which BC puffs are mixed as they are emitted
      (MBCON=2 ONLY).  Actual height is reset to the current mixing height
      at the release point if greater than this minimum.
      (HTMINBC)                          Default:   500.     ! HTMINBC = 500.0 !

      Search radius (km) about a receptor for sampling nearest BC puff.
      BC puffs are typically emitted with a spacing of one grid cell
      length, so the search radius should be greater than DGRIDKM.
      (RSAMPBC)                          Default:   10.      ! RSAMPBC = 10.0  !

      Near-Surface depletion adjustment to concentration profile used when
      sampling BC puffs?
      (MDEPBC)                           Default:   1        ! MDEPBC =  1  !
         0 = Concentration is NOT adjusted for depletion
         1 = Adjust Concentration for depletion

!END!
```

```
INPUT GROUPS: 13a, 13b, 13c, 13d -- Point source parameters
--------------------------------

---------------
Subgroup (13a)
---------------

     Number of point sources with
     parameters provided below      (NPT1)  No default  !  NPT1 =   0  !

     Units used for point source
     emissions below                (IPTU)  Default: 1  !  IPTU =   1  !
           1 =       g/s
           2 =      kg/hr
           3 =      lb/hr
           4 =    tons/yr
           5 =    Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =    Odour Unit * m**3/min
           7 =    metric tons/yr
           8 =    Bq/s  (Bq = becquerel = disintegrations/s)
           9 =    GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (13d)        (NSPT1) Default: 0  !  NSPT1 =  0  !

     Number of point sources with
     variable emission parameters
     provided in external file      (NPT2)  No default  !  NPT2  =  0  !

     (If NPT2 > 0, these point
     source emissions are read from
     the file: PTEMARB.DAT)

!END!

---------------
Subgroup (13b)
---------------
                                       a
          POINT SOURCE: CONSTANT DATA
          -----------------------------
                                                                                b          c
  Source       X          Y       Stack    Base     Stack    Exit  Exit    Bldg.  Emission
   No.     Coordinate Coordinate Height Elevation Diameter  Vel.  Temp.   Dwash   Rates
              (km)       (km)       (m)      (m)        (m)  (m/s) (deg. K)
  ------   ---------- ---------- ------  ------   -------- ----- -------- ----- --------


--------
    a
     Data for each source are treated as a separate input subgroup
```

and therefore must end with an input group terminator.

SRCNAM is a 12-character name for a source
(No default)

X is an array holding the source data listed by the column headings
(No default)

SIGYZI is an array holding the initial sigma-y and sigma-z (m)
(Default: 0.,0.)

FMFAC is a vertical momentum flux factor (0. or 1.0) used to represent the effect of rain-caps or other physical configurations that reduce momentum rise associated with the actual exit velocity.
(Default: 1.0 -- full momentum used)

ZPLTFM is the platform height (m) for sources influenced by an isolated structure that has a significant open area between the surface and the bulk of the structure, such as an offshore oil platform. The Base Elevation is that of the surface (ground or ocean), and the Stack Height is the release height above the Base (not above the platform). Building heights entered in Subgroup 13c must be those of the buildings on the platform, measured from the platform deck. ZPLTFM is used only with MBDW=1 (ISC downwash method) for sources with building downwash.
(Default: 0.0)

b

0. = No building downwash modeled
1. = Downwash modeled for buildings resting on the surface
2. = Downwash modeled for buildings raised above the surface (ZPLTFM > 0.)
NOTE: must be entered as a REAL number (i.e., with decimal point)

c

An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IPTU (e.g. 1 for g/s).

Subgroup (13c)

BUILDING DIMENSION DATA FOR SOURCES SUBJECT TO DOWNWASH

Source No.	Effective building height, width, length and X/Y offset (in meters) every 10 degrees. LENGTH, XBADJ, and YBADJ are only needed for MBDW=2 (PRIME downwash option) [a]

---

a

Building height, width, length, and X/Y offset from the source are treated as a separate input subgroup for each source and therefore must end with an input group terminator. The X/Y offset is the position, relative to the stack, of the center of the upwind face of the projected building, with the x-axis pointing along the flow direction.

Subgroup (13d)
---

a

POINT SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission rates given in 13b. Factors entered multiply the rates in 13b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use PTEMARB.DAT and NPT2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 14a, 14b, 14c, 14d -- Area source parameters

Subgroup (14a)

Number of polygon area sources with parameters specified below (NAR1) No default ! NAR1 = 0 !

Units used for area source emissions below (IARU) Default: 1 ! IARU = 1 !

- 1 = g/m**2/s
- 2 = kg/m**2/hr
- 3 = lb/m**2/hr
- 4 = tons/m**2/yr

```
           5 =     Odour Unit * m/s  (vol. flux/m**2 of odour compound)
           6 =     Odour Unit * m/min
           7 =     metric tons/m**2/yr
           8 =     Bq/m**2/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/m**2/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (14d)        (NSAR1) Default: 0  !  NSAR1 =  0  !

     Number of buoyant polygon area sources
     with variable location and emission
     parameters (NAR2)                      No default  !  NAR2  =  2  !
     (If NAR2 > 0, ALL parameter data for
     these sources are read from the file: BAEMARB.DAT)

!END!

---------------
Subgroup (14b)
---------------
                                    a
          AREA SOURCE: CONSTANT DATA
          --------------------------
                                                              b
Source           Effect.    Base      Initial    Emission
 No.             Height   Elevation   Sigma z     Rates
                   (m)       (m)        (m)
-------          ------    ------     --------   ---------


--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.
    b
     An emission rate must be entered for every pollutant modeled.
     Enter emission rate of zero for secondary pollutants that are
     modeled, but not emitted.  Units are specified by IARU
     (e.g. 1 for g/m**2/s).

---------------
Subgroup (14c)
---------------

           COORDINATES (km) FOR EACH VERTEX(4) OF EACH POLYGON
           ---------------------------------------------------
Source                                                          a
 No.       Ordered list of X followed by list of Y, grouped by source
------     ------------------------------------------------------------


--------
    a
```

Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

Subgroup (14d)

---

a

AREA SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission rates given in 14b. Factors entered multiply the rates in 14b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use BAEMARB.DAT and NAR2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a

Data for each species are treated as a separate input subgroup
and therefore must end with an input group terminator.

INPUT GROUPS: 15a, 15b, 15c -- Line source parameters

Subgroup (15a)

Number of buoyant line sources
with variable location and emission
parameters (NLN2) No default ! NLN2 = 0 !

(If NLN2 > 0, ALL parameter data for
these sources are read from the file: LNEMARB.DAT)

```
    Number of buoyant line sources (NLINES)        No default  ! NLINES =  0 !

    Units used for line source
    emissions below                (ILNU)          Default: 1  ! ILNU =    1 !
          1 =        g/s
          2 =       kg/hr
          3 =       lb/hr
          4 =     tons/yr
          5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
          6 =     Odour Unit * m**3/min
          7 =     metric tons/yr
          8 =     Bq/s  (Bq = becquerel = disintegrations/s)
          9 =     GBq/yr

    Number of source-species
    combinations with variable
    emissions scaling factors
    provided below in (15c)        (NSLN1) Default: 0  !  NSLN1 =  0  !

    Maximum number of segments used to model
    each line (MXNSEG)                             Default: 7   ! MXNSEG =  7  !

    The following variables are required only if NLINES > 0.  They are
    used in the buoyant line source plume rise calculations.

       Number of distances at which                Default: 6   ! NLRISE =  6  !
       transitional rise is computed

       Average building length (XL)                No default   ! XL =  .0 !
                                                   (in meters)

       Average building height (HBL)               No default   ! HBL = .0 !
                                                   (in meters)

       Average building width (WBL)                No default   ! WBL = .0 !
                                                   (in meters)

       Average line source width (WML)             No default   ! WML = .0 !
                                                   (in meters)

       Average separation between buildings (DXL)  No default   ! DXL = .0 !
                                                   (in meters)

       Average buoyancy parameter (FPRIMEL)        No default   ! FPRIMEL = .0 !
                                                   (in m**4/s**3)

!END!

---------------
Subgroup (15b)
---------------

          BUOYANT LINE SOURCE: CONSTANT DATA
          ----------------------------------
```

a

Source No.	Beg. X Coordinate (km)	Beg. Y Coordinate (km)	End. X Coordinate (km)	End. Y Coordinate (km)	Release Height (m)	Base Elevation (m)	Emission Rates

---

a
Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by ILNTU (e.g. 1 for g/s).

Subgroup (15c)

---

a

BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters

Subgroup (16a)

Number of volume sources with
parameters provided in 16b,c (NVL1) No default ! NVL1 = 0 !

Units used for volume source
emissions below in 16b (IVLU) Default: 1 ! IVLU = 1 !
1 = g/s
2 = kg/hr
3 = lb/hr
4 = tons/yr
5 = Odour Unit * m**3/s (vol. flux of odour compound)
6 = Odour Unit * m**3/min
7 = metric tons/yr
8 = Bq/s (Bq = becquerel = disintegrations/s)
9 = GBq/yr

Number of source-species
combinations with variable
emissions scaling factors
provided below in (16c) (NSVL1) Default: 0 ! NSVL1 = 0 !

Number of volume sources with
variable location and emission
parameters (NVL2) No default ! NVL2 = 270 !

(If NVL2 > 0, ALL parameter data for
these sources are read from the VOLEMARB.DAT file(s))

!END!

Subgroup (16b)
---

a
VOLUME SOURCE: CONSTANT DATA
---

b

X Coordinate (km)	Y Coordinate (km)	Effect. Height (m)	Base Elevation (m)	Initial Sigma y (m)	Initial Sigma z (m)	Emission Rates
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a
Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled.

Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IVLU (e.g. 1 for g/s).

Subgroup (16c)

VOLUME SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 16b. Factors entered multiply the rates in 16b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use VOLEMARB.DAT and NVL2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

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[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information

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Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 1601 !

!END!

Subgroup (17b)

NON-GRIDDED (DISCRETE) RECEPTOR DATA

Receptor No.	X Coordinate (km)	Y Coordinate (km)	Ground Elevation (m)	Height Above Ground (m)	
DSC0001	X = 651.8161,	6057.077,	471.730,	0 ! !END!	CABIN_57
DSC0002	X = 651.8456,	6057.131,	476.820,	0 ! !END!	CABIN_58
DSC0003	X = 651.8475,	6057.175,	477.075,	0 ! !END!	CABIN_59
DSC0004	X = 652.2129,	6056.643,	484.755,	0 ! !END!	CABIN_60
DSC0005	X = 652.4431,	6056.479,	462.620,	0 ! !END!	CABIN_61
DSC0006	X = 652.4767,	6056.522,	464.631,	0 ! !END!	CABIN_62
DSC0007	X = 652.8808,	6061.315,	481.756,	0 ! !END!	CABIN_63
DSC0008	X = 652.9083,	6061.333,	483.320,	0 ! !END!	CABIN_64
DSC0009	X = 652.9162,	6061.192,	475.242,	0 ! !END!	CABIN_65
DSC0010	X = 653.1604,	6060.946,	491.114,	0 ! !END!	CABIN_66
DSC0011	X = 653.1610,	6060.905,	490.554,	0 ! !END!	CABIN_67
DSC0012	X = 653.1932,	6060.837,	486.913,	0 ! !END!	CABIN_68
DSC0013	X = 653.5084,	6060.569,	472.688,	0 ! !END!	CABIN_69
DSC0014	X = 653.5701,	6060.469,	473.750,	0 ! !END!	CABIN_70
DSC0015	X = 651.9000,	6057.300,	483.288,	0 ! !END!	GR_R0001
DSC0016	X = 651.9500,	6057.300,	488.000,	0 ! !END!	GR_R0002
DSC0017	X = 652.0000,	6057.300,	487.403,	0 ! !END!	GR_R0003
DSC0018	X = 652.0500,	6057.300,	487.000,	0 ! !END!	GR_R0004
DSC0019	X = 652.1000,	6057.300,	488.000,	0 ! !END!	GR_R0005
DSC0020	X = 652.1500,	6057.300,	488.000,	0 ! !END!	GR_R0006
DSC0021	X = 652.2000,	6057.300,	488.314,	0 ! !END!	GR_R0007
DSC0022	X = 652.2500,	6057.300,	490.138,	0 ! !END!	GR_R0008
DSC0023	X = 652.3000,	6057.300,	492.004,	0 ! !END!	GR_R0009
DSC0024	X = 652.3500,	6057.300,	492.815,	0 ! !END!	GR_R0010
DSC0025	X = 652.4000,	6057.300,	493.254,	0 ! !END!	GR_R0011
DSC0026	X = 652.4500,	6057.300,	493.182,	0 ! !END!	GR_R0012
DSC0027	X = 652.5000,	6057.300,	492.222,	0 ! !END!	GR_R0013
DSC0028	X = 652.5500,	6057.300,	491.034,	0 ! !END!	GR_R0014
DSC0029	X = 652.6000,	6057.300,	490.672,	0 ! !END!	GR_R0015
DSC0030	X = 652.6500,	6057.300,	488.998,	0 ! !END!	GR_R0016
DSC0031	X = 652.7000,	6057.300,	487.086,	0 ! !END!	GR_R0017
DSC0032	X = 652.7500,	6057.300,	482.803,	0 ! !END!	GR_R0018
DSC0033	X = 652.8000,	6057.300,	479.834,	0 ! !END!	GR_R0019
DSC0034	X = 652.8500,	6057.300,	477.118,	0 ! !END!	GR_R0020
DSC0035	X = 652.9000,	6057.300,	474.687,	0 ! !END!	GR_R0021
DSC0036	X = 651.9000,	6057.350,	482.355,	0 ! !END!	GR_R0022
DSC0037	X = 651.9500,	6057.350,	485.764,	0 ! !END!	GR_R0023
DSC0038	X = 652.0000,	6057.350,	485.845,	0 ! !END!	GR_R0024
DSC0039	X = 652.0500,	6057.350,	487.000,	0 ! !END!	GR_R0025
DSC0040	X = 652.1000,	6057.350,	488.000,	0 ! !END!	GR_R0026
DSC0041	X = 652.1500,	6057.350,	488.770,	0 ! !END!	GR_R0027
DSC0042	X = 652.2000,	6057.350,	489.698,	0 ! !END!	GR_R0028
DSC0043	X = 652.2500,	6057.350,	492.045,	0 ! !END!	GR_R0029
DSC0044	X = 652.3000,	6057.350,	493.614,	0 ! !END!	GR_R0030
DSC0045	X = 652.3500,	6057.350,	494.482,	0 ! !END!	GR_R0031
DSC0046	X = 652.4000,	6057.350,	495.231,	0 ! !END!	GR_R0032
DSC0047	X = 652.4500,	6057.350,	494.813,	0 ! !END!	GR_R0033

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DSC0048 ! X =   652.5000,   6057.350,    493.264,    0 !   !END!  GR_R0034
DSC0049 ! X =   652.5500,   6057.350,    492.055,    0 !   !END!  GR_R0035
DSC0050 ! X =   652.6000,   6057.350,    491.000,    0 !   !END!  GR_R0036
DSC0051 ! X =   652.6500,   6057.350,    489.859,    0 !   !END!  GR_R0037
DSC0052 ! X =   652.7000,   6057.350,    487.139,    0 !   !END!  GR_R0038
DSC0053 ! X =   652.7500,   6057.350,    481.905,    0 !   !END!  GR_R0039
DSC0054 ! X =   652.8000,   6057.350,    478.171,    0 !   !END!  GR_R0040
DSC0055 ! X =   652.8500,   6057.350,    475.995,    0 !   !END!  GR_R0041
DSC0056 ! X =   652.9000,   6057.350,    473.509,    0 !   !END!  GR_R0042
DSC0057 ! X =   651.9000,   6057.400,    483.285,    0 !   !END!  GR_R0043
DSC0058 ! X =   651.9500,   6057.400,    485.678,    0 !   !END!  GR_R0044
DSC0059 ! X =   652.0000,   6057.400,    488.973,    0 !   !END!  GR_R0045
DSC0060 ! X =   652.0500,   6057.400,    488.705,    0 !   !END!  GR_R0046
DSC0061 ! X =   652.1000,   6057.400,    489.397,    0 !   !END!  GR_R0047
DSC0062 ! X =   652.1500,   6057.400,    490.925,    0 !   !END!  GR_R0048
DSC0063 ! X =   652.2000,   6057.400,    491.853,    0 !   !END!  GR_R0049
DSC0064 ! X =   652.2500,   6057.400,    493.781,    0 !   !END!  GR_R0050
DSC0065 ! X =   652.3000,   6057.400,    495.709,    0 !   !END!  GR_R0051
DSC0066 ! X =   652.3500,   6057.400,    496.620,    0 !   !END!  GR_R0052
DSC0067 ! X =   652.4000,   6057.400,    496.565,    0 !   !END!  GR_R0053
DSC0068 ! X =   652.4500,   6057.400,    496.000,    0 !   !END!  GR_R0054
DSC0069 ! X =   652.5000,   6057.400,    494.000,    0 !   !END!  GR_R0055
DSC0070 ! X =   652.5500,   6057.400,    492.165,    0 !   !END!  GR_R0056
DSC0071 ! X =   652.6000,   6057.400,    490.850,    0 !   !END!  GR_R0057
DSC0072 ! X =   652.6500,   6057.400,    488.946,    0 !   !END!  GR_R0058
DSC0073 ! X =   652.7000,   6057.400,    486.027,    0 !   !END!  GR_R0059
DSC0074 ! X =   652.7500,   6057.400,    480.542,    0 !   !END!  GR_R0060
DSC0075 ! X =   652.8000,   6057.400,    476.025,    0 !   !END!  GR_R0061
DSC0076 ! X =   652.8500,   6057.400,    475.081,    0 !   !END!  GR_R0062
DSC0077 ! X =   652.9000,   6057.400,    472.154,    0 !   !END!  GR_R0063
DSC0078 ! X =   651.9000,   6057.450,    485.440,    0 !   !END!  GR_R0064
DSC0079 ! X =   651.9500,   6057.450,    488.137,    0 !   !END!  GR_R0065
DSC0080 ! X =   652.0000,   6057.450,    490.296,    0 !   !END!  GR_R0066
DSC0081 ! X =   652.0500,   6057.450,    490.224,    0 !   !END!  GR_R0067
DSC0082 ! X =   652.1000,   6057.450,    491.152,    0 !   !END!  GR_R0068
DSC0083 ! X =   652.1500,   6057.450,    492.318,    0 !   !END!  GR_R0069
DSC0084 ! X =   652.2000,   6057.450,    494.008,    0 !   !END!  GR_R0070
DSC0085 ! X =   652.2500,   6057.450,    495.936,    0 !   !END!  GR_R0071
DSC0086 ! X =   652.3000,   6057.450,    497.248,    0 !   !END!  GR_R0072
DSC0087 ! X =   652.3500,   6057.450,    497.813,    0 !   !END!  GR_R0073
DSC0088 ! X =   652.4000,   6057.450,    498.000,    0 !   !END!  GR_R0074
DSC0089 ! X =   652.4500,   6057.450,    496.470,    0 !   !END!  GR_R0075
DSC0090 ! X =   652.5000,   6057.450,    493.860,    0 !   !END!  GR_R0076
DSC0091 ! X =   652.5500,   6057.450,    492.020,    0 !   !END!  GR_R0077
DSC0092 ! X =   652.6000,   6057.450,    490.000,    0 !   !END!  GR_R0078
DSC0093 ! X =   652.6500,   6057.450,    488.390,    0 !   !END!  GR_R0079
DSC0094 ! X =   652.7000,   6057.450,    484.527,    0 !   !END!  GR_R0080
DSC0095 ! X =   652.7500,   6057.450,    478.963,    0 !   !END!  GR_R0081
DSC0096 ! X =   652.8000,   6057.450,    473.786,    0 !   !END!  GR_R0082
DSC0097 ! X =   652.8500,   6057.450,    472.938,    0 !   !END!  GR_R0083
DSC0098 ! X =   652.9000,   6057.450,    472.000,    0 !   !END!  GR_R0084
DSC0099 ! X =   651.9000,   6057.500,    487.378,    0 !   !END!  GR_R0085
DSC0100 ! X =   651.9500,   6057.500,    490.021,    0 !   !END!  GR_R0086
DSC0101 ! X =   652.0000,   6057.500,    492.098,    0 !   !END!  GR_R0087
DSC0102 ! X =   652.0500,   6057.500,    492.379,    0 !   !END!  GR_R0088
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DSC0103 ! X =   652.1000,   6057.500,    493.307,    0 !   !END!  GR_R0089
DSC0104 ! X =   652.1500,   6057.500,    494.513,    0 !   !END!  GR_R0090
DSC0105 ! X =   652.2000,   6057.500,    496.163,    0 !   !END!  GR_R0091
DSC0106 ! X =   652.2500,   6057.500,    497.885,    0 !   !END!  GR_R0092
DSC0107 ! X =   652.3000,   6057.500,    499.019,    0 !   !END!  GR_R0093
DSC0108 ! X =   652.3500,   6057.500,    499.947,    0 !   !END!  GR_R0094
DSC0109 ! X =   652.4000,   6057.500,    499.000,    0 !   !END!  GR_R0095
DSC0110 ! X =   652.4500,   6057.500,    496.346,    0 !   !END!  GR_R0096
DSC0111 ! X =   652.5000,   6057.500,    493.172,    0 !   !END!  GR_R0097
DSC0112 ! X =   652.5500,   6057.500,    490.941,    0 !   !END!  GR_R0098
DSC0113 ! X =   652.6000,   6057.500,    488.531,    0 !   !END!  GR_R0099
DSC0114 ! X =   652.6500,   6057.500,    486.970,    0 !   !END!  GR_R0100
DSC0115 ! X =   652.7000,   6057.500,    482.662,    0 !   !END!  GR_R0101
DSC0116 ! X =   652.7500,   6057.500,    477.081,    0 !   !END!  GR_R0102
DSC0117 ! X =   652.8000,   6057.500,    472.098,    0 !   !END!  GR_R0103
DSC0118 ! X =   652.8500,   6057.500,    470.782,    0 !   !END!  GR_R0104
DSC0119 ! X =   652.9000,   6057.500,    469.758,    0 !   !END!  GR_R0105
DSC0120 ! X =   651.9000,   6057.550,    488.750,    0 !   !END!  GR_R0106
DSC0121 ! X =   651.9500,   6057.550,    491.422,    0 !   !END!  GR_R0107
DSC0122 ! X =   652.0000,   6057.550,    493.606,    0 !   !END!  GR_R0108
DSC0123 ! X =   652.0500,   6057.550,    494.534,    0 !   !END!  GR_R0109
DSC0124 ! X =   652.1000,   6057.550,    495.462,    0 !   !END!  GR_R0110
DSC0125 ! X =   652.1500,   6057.550,    496.390,    0 !   !END!  GR_R0111
DSC0126 ! X =   652.2000,   6057.550,    498.318,    0 !   !END!  GR_R0112
DSC0127 ! X =   652.2500,   6057.550,    500.165,    0 !   !END!  GR_R0113
DSC0128 ! X =   652.3000,   6057.550,    501.174,    0 !   !END!  GR_R0114
DSC0129 ! X =   652.3500,   6057.550,    501.102,    0 !   !END!  GR_R0115
DSC0130 ! X =   652.4000,   6057.550,    498.936,    0 !   !END!  GR_R0116
DSC0131 ! X =   652.4500,   6057.550,    495.221,    0 !   !END!  GR_R0117
DSC0132 ! X =   652.5000,   6057.550,    492.059,    0 !   !END!  GR_R0118
DSC0133 ! X =   652.5500,   6057.550,    489.826,    0 !   !END!  GR_R0119
DSC0134 ! X =   652.6000,   6057.550,    487.314,    0 !   !END!  GR_R0120
DSC0135 ! X =   652.6500,   6057.550,    484.690,    0 !   !END!  GR_R0121
DSC0136 ! X =   652.7000,   6057.550,    480.900,    0 !   !END!  GR_R0122
DSC0137 ! X =   652.7500,   6057.550,    475.403,    0 !   !END!  GR_R0123
DSC0138 ! X =   652.8000,   6057.550,    472.116,    0 !   !END!  GR_R0124
DSC0139 ! X =   652.8500,   6057.550,    468.812,    0 !   !END!  GR_R0125
DSC0140 ! X =   652.9000,   6057.550,    467.478,    0 !   !END!  GR_R0126
DSC0141 ! X =   651.9000,   6057.600,    490.938,    0 !   !END!  GR_R0127
DSC0142 ! X =   651.9500,   6057.600,    493.581,    0 !   !END!  GR_R0128
DSC0143 ! X =   652.0000,   6057.600,    495.224,    0 !   !END!  GR_R0129
DSC0144 ! X =   652.0500,   6057.600,    496.690,    0 !   !END!  GR_R0130
DSC0145 ! X =   652.1000,   6057.600,    497.618,    0 !   !END!  GR_R0131
DSC0146 ! X =   652.1500,   6057.600,    498.546,    0 !   !END!  GR_R0132
DSC0147 ! X =   652.2000,   6057.600,    499.802,    0 !   !END!  GR_R0133
DSC0148 ! X =   652.2500,   6057.600,    501.427,    0 !   !END!  GR_R0134
DSC0149 ! X =   652.3000,   6057.600,    502.838,    0 !   !END!  GR_R0135
DSC0150 ! X =   652.3500,   6057.600,    502.648,    0 !   !END!  GR_R0136
DSC0151 ! X =   652.4000,   6057.600,    499.622,    0 !   !END!  GR_R0137
DSC0152 ! X =   652.4500,   6057.600,    493.998,    0 !   !END!  GR_R0138
DSC0153 ! X =   652.5000,   6057.600,    490.339,    0 !   !END!  GR_R0139
DSC0154 ! X =   652.5500,   6057.600,    488.023,    0 !   !END!  GR_R0140
DSC0155 ! X =   652.6000,   6057.600,    485.951,    0 !   !END!  GR_R0141
DSC0156 ! X =   652.6500,   6057.600,    483.368,    0 !   !END!  GR_R0142
DSC0157 ! X =   652.7000,   6057.600,    479.152,    0 !   !END!  GR_R0143
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DSC0158 ! X =   652.7500,   6057.600,    473.923,    0 !   !END!  GR_R0144
DSC0159 ! X =   652.8000,   6057.600,    470.485,    0 !   !END!  GR_R0145
DSC0160 ! X =   652.8500,   6057.600,    467.174,    0 !   !END!  GR_R0146
DSC0161 ! X =   652.9000,   6057.600,    465.198,    0 !   !END!  GR_R0147
DSC0162 ! X =   651.9000,   6057.650,    493.061,    0 !   !END!  GR_R0148
DSC0163 ! X =   651.9500,   6057.650,    494.989,    0 !   !END!  GR_R0149
DSC0164 ! X =   652.0000,   6057.650,    496.966,    0 !   !END!  GR_R0150
DSC0165 ! X =   652.0500,   6057.650,    498.845,    0 !   !END!  GR_R0151
DSC0166 ! X =   652.1000,   6057.650,    499.773,    0 !   !END!  GR_R0152
DSC0167 ! X =   652.1500,   6057.650,    500.438,    0 !   !END!  GR_R0153
DSC0168 ! X =   652.2000,   6057.650,    501.629,    0 !   !END!  GR_R0154
DSC0169 ! X =   652.2500,   6057.650,    503.000,    0 !   !END!  GR_R0155
DSC0170 ! X =   652.3000,   6057.650,    504.000,    0 !   !END!  GR_R0156
DSC0171 ! X =   652.3500,   6057.650,    504.164,    0 !   !END!  GR_R0157
DSC0172 ! X =   652.4000,   6057.650,    498.373,    0 !   !END!  GR_R0158
DSC0173 ! X =   652.4500,   6057.650,    492.422,    0 !   !END!  GR_R0159
DSC0174 ! X =   652.5000,   6057.650,    488.251,    0 !   !END!  GR_R0160
DSC0175 ! X =   652.5500,   6057.650,    486.472,    0 !   !END!  GR_R0161
DSC0176 ! X =   652.6000,   6057.650,    483.781,    0 !   !END!  GR_R0162
DSC0177 ! X =   652.6500,   6057.650,    481.130,    0 !   !END!  GR_R0163
DSC0178 ! X =   652.7000,   6057.650,    477.486,    0 !   !END!  GR_R0164
DSC0179 ! X =   652.7500,   6057.650,    473.621,    0 !   !END!  GR_R0165
DSC0180 ! X =   652.8000,   6057.650,    470.920,    0 !   !END!  GR_R0166
DSC0181 ! X =   652.8500,   6057.650,    465.562,    0 !   !END!  GR_R0167
DSC0182 ! X =   652.9000,   6057.650,    463.389,    0 !   !END!  GR_R0168
DSC0183 ! X =   651.9000,   6057.700,    495.277,    0 !   !END!  GR_R0169
DSC0184 ! X =   651.9500,   6057.700,    497.144,    0 !   !END!  GR_R0170
DSC0185 ! X =   652.0000,   6057.700,    499.051,    0 !   !END!  GR_R0171
DSC0186 ! X =   652.0500,   6057.700,    500.432,    0 !   !END!  GR_R0172
DSC0187 ! X =   652.1000,   6057.700,    501.075,    0 !   !END!  GR_R0173
DSC0188 ! X =   652.1500,   6057.700,    501.856,    0 !   !END!  GR_R0174
DSC0189 ! X =   652.2000,   6057.700,    502.909,    0 !   !END!  GR_R0175
DSC0190 ! X =   652.2500,   6057.700,    503.796,    0 !   !END!  GR_R0176
DSC0191 ! X =   652.3000,   6057.700,    504.365,    0 !   !END!  GR_R0177
DSC0192 ! X =   652.3500,   6057.700,    504.277,    0 !   !END!  GR_R0178
DSC0193 ! X =   652.4000,   6057.700,    496.908,    0 !   !END!  GR_R0179
DSC0194 ! X =   652.4500,   6057.700,    489.422,    0 !   !END!  GR_R0180
DSC0195 ! X =   652.5000,   6057.700,    486.779,    0 !   !END!  GR_R0181
DSC0196 ! X =   652.5500,   6057.700,    484.725,    0 !   !END!  GR_R0182
DSC0197 ! X =   652.6000,   6057.700,    482.493,    0 !   !END!  GR_R0183
DSC0198 ! X =   652.6500,   6057.700,    479.850,    0 !   !END!  GR_R0184
DSC0199 ! X =   652.7000,   6057.700,    476.250,    0 !   !END!  GR_R0185
DSC0200 ! X =   652.7500,   6057.700,    473.556,    0 !   !END!  GR_R0186
DSC0201 ! X =   652.8000,   6057.700,    469.760,    0 !   !END!  GR_R0187
DSC0202 ! X =   652.8500,   6057.700,    463.392,    0 !   !END!  GR_R0188
DSC0203 ! X =   652.9000,   6057.700,    461.234,    0 !   !END!  GR_R0189
DSC0204 ! X =   651.9000,   6057.750,    498.371,    0 !   !END!  GR_R0190
DSC0205 ! X =   651.9500,   6057.750,    499.299,    0 !   !END!  GR_R0191
DSC0206 ! X =   652.0000,   6057.750,    500.874,    0 !   !END!  GR_R0192
DSC0207 ! X =   652.0500,   6057.750,    502.086,    0 !   !END!  GR_R0193
DSC0208 ! X =   652.1000,   6057.750,    503.000,    0 !   !END!  GR_R0194
DSC0209 ! X =   652.1500,   6057.750,    503.000,    0 !   !END!  GR_R0195
DSC0210 ! X =   652.2000,   6057.750,    503.939,    0 !   !END!  GR_R0196
DSC0211 ! X =   652.2500,   6057.750,    504.000,    0 !   !END!  GR_R0197
DSC0212 ! X =   652.3000,   6057.750,    503.205,    0 !   !END!  GR_R0198
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DSC0213 ! X =   652.3500,   6057.750,    505.900,    0 !   !END!  GR_R0199
DSC0214 ! X =   652.4000,   6057.750,    494.018,    0 !   !END!  GR_R0200
DSC0215 ! X =   652.4500,   6057.750,    487.142,    0 !   !END!  GR_R0201
DSC0216 ! X =   652.5000,   6057.750,    484.499,    0 !   !END!  GR_R0202
DSC0217 ! X =   652.5500,   6057.750,    482.856,    0 !   !END!  GR_R0203
DSC0218 ! X =   652.6000,   6057.750,    480.366,    0 !   !END!  GR_R0204
DSC0219 ! X =   652.6500,   6057.750,    477.528,    0 !   !END!  GR_R0205
DSC0220 ! X =   652.7000,   6057.750,    474.601,    0 !   !END!  GR_R0206
DSC0221 ! X =   652.7500,   6057.750,    471.150,    0 !   !END!  GR_R0207
DSC0222 ! X =   652.8000,   6057.750,    466.299,    0 !   !END!  GR_R0208
DSC0223 ! X =   652.8500,   6057.750,    461.006,    0 !   !END!  GR_R0209
DSC0224 ! X =   652.9000,   6057.750,    461.000,    0 !   !END!  GR_R0210
DSC0225 ! X =   651.9000,   6057.800,    500.526,    0 !   !END!  GR_R0211
DSC0226 ! X =   651.9500,   6057.800,    501.454,    0 !   !END!  GR_R0212
DSC0227 ! X =   652.0000,   6057.800,    502.368,    0 !   !END!  GR_R0213
DSC0228 ! X =   652.0500,   6057.800,    503.000,    0 !   !END!  GR_R0214
DSC0229 ! X =   652.1000,   6057.800,    503.238,    0 !   !END!  GR_R0215
DSC0230 ! X =   652.1500,   6057.800,    504.000,    0 !   !END!  GR_R0216
DSC0231 ! X =   652.2000,   6057.800,    504.094,    0 !   !END!  GR_R0217
DSC0232 ! X =   652.2500,   6057.800,    502.988,    0 !   !END!  GR_R0218
DSC0233 ! X =   652.3000,   6057.800,    505.900,    0 !   !END!  GR_R0219
DSC0234 ! X =   652.3500,   6057.800,    505.900,    0 !   !END!  GR_R0220
DSC0235 ! X =   652.4500,   6057.800,    484.862,    0 !   !END!  GR_R0221
DSC0236 ! X =   652.5000,   6057.800,    482.342,    0 !   !END!  GR_R0222
DSC0237 ! X =   652.5500,   6057.800,    481.067,    0 !   !END!  GR_R0223
DSC0238 ! X =   652.6000,   6057.800,    478.933,    0 !   !END!  GR_R0224
DSC0239 ! X =   652.6500,   6057.800,    475.021,    0 !   !END!  GR_R0225
DSC0240 ! X =   652.7000,   6057.800,    470.897,    0 !   !END!  GR_R0226
DSC0241 ! X =   652.7500,   6057.800,    466.715,    0 !   !END!  GR_R0227
DSC0242 ! X =   652.8000,   6057.800,    462.358,    0 !   !END!  GR_R0228
DSC0243 ! X =   652.8500,   6057.800,    461.000,    0 !   !END!  GR_R0229
DSC0244 ! X =   652.9000,   6057.800,    461.000,    0 !   !END!  GR_R0230
DSC0245 ! X =   651.9000,   6057.850,    502.682,    0 !   !END!  GR_R0231
DSC0246 ! X =   651.9500,   6057.850,    502.610,    0 !   !END!  GR_R0232
DSC0247 ! X =   652.0000,   6057.850,    503.000,    0 !   !END!  GR_R0233
DSC0248 ! X =   652.0500,   6057.850,    503.466,    0 !   !END!  GR_R0234
DSC0249 ! X =   652.1000,   6057.850,    503.290,    0 !   !END!  GR_R0235
DSC0250 ! X =   652.1500,   6057.850,    503.755,    0 !   !END!  GR_R0236
DSC0251 ! X =   652.2000,   6057.850,    505.000,    0 !   !END!  GR_R0237
DSC0252 ! X =   652.2500,   6057.850,    505.900,    0 !   !END!  GR_R0238
DSC0253 ! X =   652.3000,   6057.850,    505.900,    0 !   !END!  GR_R0239
DSC0254 ! X =   652.3500,   6057.850,    505.900,    0 !   !END!  GR_R0240
DSC0255 ! X =   652.4000,   6057.850,    486.451,    0 !   !END!  GR_R0241
DSC0256 ! X =   652.4500,   6057.850,    483.054,    0 !   !END!  GR_R0242
DSC0257 ! X =   652.5000,   6057.850,    480.939,    0 !   !END!  GR_R0243
DSC0258 ! X =   652.5500,   6057.850,    479.259,    0 !   !END!  GR_R0244
DSC0259 ! X =   652.6000,   6057.850,    476.653,    0 !   !END!  GR_R0245
DSC0260 ! X =   652.6500,   6057.850,    471.540,    0 !   !END!  GR_R0246
DSC0261 ! X =   652.7000,   6057.850,    465.265,    0 !   !END!  GR_R0247
DSC0262 ! X =   652.7500,   6057.850,    462.199,    0 !   !END!  GR_R0248
DSC0263 ! X =   652.8000,   6057.850,    461.000,    0 !   !END!  GR_R0249
DSC0264 ! X =   652.8500,   6057.850,    461.000,    0 !   !END!  GR_R0250
DSC0265 ! X =   652.9000,   6057.850,    461.000,    0 !   !END!  GR_R0251
DSC0266 ! X =   651.9000,   6057.900,    503.837,    0 !   !END!  GR_R0252
DSC0267 ! X =   651.9500,   6057.900,    503.765,    0 !   !END!  GR_R0253
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DSC0268 ! X =   652.0000,   6057.900,    504.000,    0 !   !END!  GR_R0254
DSC0269 ! X =   652.0500,   6057.900,    504.000,    0 !   !END!  GR_R0255
DSC0270 ! X =   652.1000,   6057.900,    502.451,    0 !   !END!  GR_R0256
DSC0271 ! X =   652.1500,   6057.900,    502.885,    0 !   !END!  GR_R0257
DSC0272 ! X =   652.2000,   6057.900,    505.900,    0 !   !END!  GR_R0258
DSC0273 ! X =   652.2500,   6057.900,    505.900,    0 !   !END!  GR_R0259
DSC0274 ! X =   652.3000,   6057.900,    505.900,    0 !   !END!  GR_R0260
DSC0275 ! X =   652.3500,   6057.900,    490.555,    0 !   !END!  GR_R0261
DSC0276 ! X =   652.4000,   6057.900,    485.058,    0 !   !END!  GR_R0262
DSC0277 ! X =   652.4500,   6057.900,    481.302,    0 !   !END!  GR_R0263
DSC0278 ! X =   652.5000,   6057.900,    478.659,    0 !   !END!  GR_R0264
DSC0279 ! X =   652.5500,   6057.900,    477.104,    0 !   !END!  GR_R0265
DSC0280 ! X =   652.6000,   6057.900,    473.711,    0 !   !END!  GR_R0266
DSC0281 ! X =   652.6500,   6057.900,    466.069,    0 !   !END!  GR_R0267
DSC0282 ! X =   652.7000,   6057.900,    461.000,    0 !   !END!  GR_R0268
DSC0283 ! X =   652.7500,   6057.900,    461.000,    0 !   !END!  GR_R0269
DSC0284 ! X =   652.8000,   6057.900,    461.000,    0 !   !END!  GR_R0270
DSC0285 ! X =   652.8500,   6057.900,    461.000,    0 !   !END!  GR_R0271
DSC0286 ! X =   652.9000,   6057.900,    461.000,    0 !   !END!  GR_R0272
DSC0287 ! X =   651.9000,   6057.950,    504.000,    0 !   !END!  GR_R0273
DSC0288 ! X =   651.9500,   6057.950,    504.000,    0 !   !END!  GR_R0274
DSC0289 ! X =   652.0000,   6057.950,    504.000,    0 !   !END!  GR_R0275
DSC0290 ! X =   652.0500,   6057.950,    503.989,    0 !   !END!  GR_R0276
DSC0291 ! X =   652.1000,   6057.950,    502.476,    0 !   !END!  GR_R0277
DSC0292 ! X =   652.1500,   6057.950,    499.898,    0 !   !END!  GR_R0278
DSC0293 ! X =   652.2000,   6057.950,    505.900,    0 !   !END!  GR_R0279
DSC0294 ! X =   652.2500,   6057.950,    505.900,    0 !   !END!  GR_R0280
DSC0295 ! X =   652.3000,   6057.950,    492.546,    0 !   !END!  GR_R0281
DSC0296 ! X =   652.3500,   6057.950,    489.314,    0 !   !END!  GR_R0282
DSC0297 ! X =   652.4000,   6057.950,    483.915,    0 !   !END!  GR_R0283
DSC0298 ! X =   652.4500,   6057.950,    479.218,    0 !   !END!  GR_R0284
DSC0299 ! X =   652.5000,   6057.950,    476.877,    0 !   !END!  GR_R0285
DSC0300 ! X =   652.5500,   6057.950,    474.736,    0 !   !END!  GR_R0286
DSC0301 ! X =   652.6000,   6057.950,    469.275,    0 !   !END!  GR_R0287
DSC0302 ! X =   652.6500,   6057.950,    461.099,    0 !   !END!  GR_R0288
DSC0303 ! X =   652.7000,   6057.950,    461.000,    0 !   !END!  GR_R0289
DSC0304 ! X =   652.7500,   6057.950,    461.758,    0 !   !END!  GR_R0290
DSC0305 ! X =   652.8000,   6057.950,    461.686,    0 !   !END!  GR_R0291
DSC0306 ! X =   652.8500,   6057.950,    461.000,    0 !   !END!  GR_R0292
DSC0307 ! X =   652.9000,   6057.950,    461.000,    0 !   !END!  GR_R0293
DSC0308 ! X =   651.9000,   6058.000,    504.853,    0 !   !END!  GR_R0294
DSC0309 ! X =   651.9500,   6058.000,    505.000,    0 !   !END!  GR_R0295
DSC0310 ! X =   652.0000,   6058.000,    505.000,    0 !   !END!  GR_R0296
DSC0311 ! X =   652.0500,   6058.000,    504.000,    0 !   !END!  GR_R0297
DSC0312 ! X =   652.1000,   6058.000,    504.000,    0 !   !END!  GR_R0298
DSC0313 ! X =   652.1500,   6058.000,    505.900,    0 !   !END!  GR_R0299
DSC0314 ! X =   652.2000,   6058.000,    505.900,    0 !   !END!  GR_R0300
DSC0315 ! X =   652.2500,   6058.000,    492.640,    0 !   !END!  GR_R0301
DSC0316 ! X =   652.3000,   6058.000,    488.110,    0 !   !END!  GR_R0302
DSC0317 ! X =   652.3500,   6058.000,    486.301,    0 !   !END!  GR_R0303
DSC0318 ! X =   652.4000,   6058.000,    481.386,    0 !   !END!  GR_R0304
DSC0319 ! X =   652.4500,   6058.000,    477.742,    0 !   !END!  GR_R0305
DSC0320 ! X =   652.5000,   6058.000,    474.548,    0 !   !END!  GR_R0306
DSC0321 ! X =   652.5500,   6058.000,    471.386,    0 !   !END!  GR_R0307
DSC0322 ! X =   652.6000,   6058.000,    464.534,    0 !   !END!  GR_R0308
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DSC0323 ! X =   652.6500,   6058.000,    461.000,    0 !   !END!  GR_R0309
DSC0324 ! X =   652.7000,   6058.000,    462.000,    0 !   !END!  GR_R0310
DSC0325 ! X =   652.7500,   6058.000,    462.000,    0 !   !END!  GR_R0311
DSC0326 ! X =   652.8000,   6058.000,    462.000,    0 !   !END!  GR_R0312
DSC0327 ! X =   652.8500,   6058.000,    461.854,    0 !   !END!  GR_R0313
DSC0328 ! X =   652.9000,   6058.000,    461.000,    0 !   !END!  GR_R0314
DSC0329 ! X =   651.9000,   6058.050,    504.000,    0 !   !END!  GR_R0315
DSC0330 ! X =   651.9500,   6058.050,    504.670,    0 !   !END!  GR_R0316
DSC0331 ! X =   652.0000,   6058.050,    504.907,    0 !   !END!  GR_R0317
DSC0332 ! X =   652.0500,   6058.050,    502.974,    0 !   !END!  GR_R0318
DSC0333 ! X =   652.1000,   6058.050,    505.900,    0 !   !END!  GR_R0319
DSC0334 ! X =   652.1500,   6058.050,    505.900,    0 !   !END!  GR_R0320
DSC0335 ! X =   652.2000,   6058.050,    505.900,    0 !   !END!  GR_R0321
DSC0336 ! X =   652.2500,   6058.050,    487.908,    0 !   !END!  GR_R0322
DSC0337 ! X =   652.3000,   6058.050,    484.557,    0 !   !END!  GR_R0323
DSC0338 ! X =   652.3500,   6058.050,    482.099,    0 !   !END!  GR_R0324
DSC0339 ! X =   652.4000,   6058.050,    478.528,    0 !   !END!  GR_R0325
DSC0340 ! X =   652.4500,   6058.050,    475.462,    0 !   !END!  GR_R0326
DSC0341 ! X =   652.5000,   6058.050,    471.819,    0 !   !END!  GR_R0327
DSC0342 ! X =   652.5500,   6058.050,    467.714,    0 !   !END!  GR_R0328
DSC0343 ! X =   652.6000,   6058.050,    461.000,    0 !   !END!  GR_R0329
DSC0344 ! X =   652.6500,   6058.050,    461.920,    0 !   !END!  GR_R0330
DSC0345 ! X =   652.7000,   6058.050,    462.086,    0 !   !END!  GR_R0331
DSC0346 ! X =   652.7500,   6058.050,    463.000,    0 !   !END!  GR_R0332
DSC0347 ! X =   652.8000,   6058.050,    463.000,    0 !   !END!  GR_R0333
DSC0348 ! X =   652.8500,   6058.050,    462.000,    0 !   !END!  GR_R0334
DSC0349 ! X =   652.9000,   6058.050,    461.000,    0 !   !END!  GR_R0335
DSC0350 ! X =   651.9000,   6058.100,    503.391,    0 !   !END!  GR_R0336
DSC0351 ! X =   651.9500,   6058.100,    503.998,    0 !   !END!  GR_R0337
DSC0352 ! X =   652.0000,   6058.100,    504.199,    0 !   !END!  GR_R0338
DSC0353 ! X =   652.0500,   6058.100,    505.900,    0 !   !END!  GR_R0339
DSC0354 ! X =   652.1000,   6058.100,    505.900,    0 !   !END!  GR_R0340
DSC0355 ! X =   652.1500,   6058.100,    505.900,    0 !   !END!  GR_R0341
DSC0356 ! X =   652.2000,   6058.100,    488.424,    0 !   !END!  GR_R0342
DSC0357 ! X =   652.2500,   6058.100,    484.484,    0 !   !END!  GR_R0343
DSC0358 ! X =   652.3000,   6058.100,    481.118,    0 !   !END!  GR_R0344
DSC0359 ! X =   652.3500,   6058.100,    478.469,    0 !   !END!  GR_R0345
DSC0360 ! X =   652.4000,   6058.100,    475.416,    0 !   !END!  GR_R0346
DSC0361 ! X =   652.4500,   6058.100,    473.182,    0 !   !END!  GR_R0347
DSC0362 ! X =   652.5000,   6058.100,    469.539,    0 !   !END!  GR_R0348
DSC0363 ! X =   652.5500,   6058.100,    465.379,    0 !   !END!  GR_R0349
DSC0364 ! X =   652.6000,   6058.100,    461.000,    0 !   !END!  GR_R0350
DSC0365 ! X =   652.6500,   6058.100,    462.000,    0 !   !END!  GR_R0351
DSC0366 ! X =   652.7000,   6058.100,    463.000,    0 !   !END!  GR_R0352
DSC0367 ! X =   652.7500,   6058.100,    463.000,    0 !   !END!  GR_R0353
DSC0368 ! X =   652.8000,   6058.100,    463.000,    0 !   !END!  GR_R0354
DSC0369 ! X =   652.8500,   6058.100,    462.000,    0 !   !END!  GR_R0355
DSC0370 ! X =   652.9000,   6058.100,    461.000,    0 !   !END!  GR_R0356
DSC0371 ! X =   651.9000,   6058.150,    501.982,    0 !   !END!  GR_R0357
DSC0372 ! X =   651.9500,   6058.150,    502.579,    0 !   !END!  GR_R0358
DSC0373 ! X =   652.0000,   6058.150,    505.900,    0 !   !END!  GR_R0359
DSC0374 ! X =   652.0500,   6058.150,    505.900,    0 !   !END!  GR_R0360
DSC0375 ! X =   652.1000,   6058.150,    505.900,    0 !   !END!  GR_R0361
DSC0376 ! X =   652.1500,   6058.150,    490.509,    0 !   !END!  GR_R0362
DSC0377 ! X =   652.2000,   6058.150,    488.000,    0 !   !END!  GR_R0363
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DSC0378 ! X =   652.2500,   6058.150,    482.480,    0 !   !END!  GR_R0364
DSC0379 ! X =   652.3000,   6058.150,    477.837,    0 !   !END!  GR_R0365
DSC0380 ! X =   652.3500,   6058.150,    475.189,    0 !   !END!  GR_R0366
DSC0381 ! X =   652.4000,   6058.150,    472.546,    0 !   !END!  GR_R0367
DSC0382 ! X =   652.4500,   6058.150,    469.954,    0 !   !END!  GR_R0368
DSC0383 ! X =   652.5000,   6058.150,    466.259,    0 !   !END!  GR_R0369
DSC0384 ! X =   652.5500,   6058.150,    461.944,    0 !   !END!  GR_R0370
DSC0385 ! X =   652.6000,   6058.150,    461.259,    0 !   !END!  GR_R0371
DSC0386 ! X =   652.6500,   6058.150,    462.593,    0 !   !END!  GR_R0372
DSC0387 ! X =   652.7000,   6058.150,    463.389,    0 !   !END!  GR_R0373
DSC0388 ! X =   652.7500,   6058.150,    464.000,    0 !   !END!  GR_R0374
DSC0389 ! X =   652.8000,   6058.150,    463.797,    0 !   !END!  GR_R0375
DSC0390 ! X =   652.8500,   6058.150,    462.000,    0 !   !END!  GR_R0376
DSC0391 ! X =   652.9000,   6058.150,    461.000,    0 !   !END!  GR_R0377
DSC0392 ! X =   651.9000,   6058.200,    500.832,    0 !   !END!  GR_R0378
DSC0393 ! X =   651.9500,   6058.200,    505.900,    0 !   !END!  GR_R0379
DSC0394 ! X =   652.0500,   6058.200,    505.900,    0 !   !END!  GR_R0380
DSC0395 ! X =   652.1000,   6058.200,    489.125,    0 !   !END!  GR_R0381
DSC0396 ! X =   652.1500,   6058.200,    487.194,    0 !   !END!  GR_R0382
DSC0397 ! X =   652.2000,   6058.200,    484.843,    0 !   !END!  GR_R0383
DSC0398 ! X =   652.2500,   6058.200,    480.200,    0 !   !END!  GR_R0384
DSC0399 ! X =   652.3000,   6058.200,    475.557,    0 !   !END!  GR_R0385
DSC0400 ! X =   652.3500,   6058.200,    472.021,    0 !   !END!  GR_R0386
DSC0401 ! X =   652.4000,   6058.200,    470.266,    0 !   !END!  GR_R0387
DSC0402 ! X =   652.4500,   6058.200,    467.622,    0 !   !END!  GR_R0388
DSC0403 ! X =   652.5000,   6058.200,    463.967,    0 !   !END!  GR_R0389
DSC0404 ! X =   652.5500,   6058.200,    461.000,    0 !   !END!  GR_R0390
DSC0405 ! X =   652.6000,   6058.200,    462.000,    0 !   !END!  GR_R0391
DSC0406 ! X =   652.6500,   6058.200,    463.000,    0 !   !END!  GR_R0392
DSC0407 ! X =   652.7000,   6058.200,    464.000,    0 !   !END!  GR_R0393
DSC0408 ! X =   652.7500,   6058.200,    464.534,    0 !   !END!  GR_R0394
DSC0409 ! X =   652.8000,   6058.200,    464.000,    0 !   !END!  GR_R0395
DSC0410 ! X =   652.8500,   6058.200,    462.916,    0 !   !END!  GR_R0396
DSC0411 ! X =   652.9000,   6058.200,    461.047,    0 !   !END!  GR_R0397
DSC0412 ! X =   651.9000,   6058.250,    499.795,    0 !   !END!  GR_R0398
DSC0413 ! X =   651.9500,   6058.250,    505.900,    0 !   !END!  GR_R0399
DSC0414 ! X =   652.0000,   6058.250,    493.442,    0 !   !END!  GR_R0400
DSC0415 ! X =   652.0500,   6058.250,    490.786,    0 !   !END!  GR_R0401
DSC0416 ! X =   652.1000,   6058.250,    486.845,    0 !   !END!  GR_R0402
DSC0417 ! X =   652.1500,   6058.250,    483.779,    0 !   !END!  GR_R0403
DSC0418 ! X =   652.2000,   6058.250,    481.077,    0 !   !END!  GR_R0404
DSC0419 ! X =   652.2500,   6058.250,    477.506,    0 !   !END!  GR_R0405
DSC0420 ! X =   652.3000,   6058.250,    473.277,    0 !   !END!  GR_R0406
DSC0421 ! X =   652.3500,   6058.250,    470.629,    0 !   !END!  GR_R0407
DSC0422 ! X =   652.4000,   6058.250,    467.986,    0 !   !END!  GR_R0408
DSC0423 ! X =   652.4500,   6058.250,    465.342,    0 !   !END!  GR_R0409
DSC0424 ! X =   652.5000,   6058.250,    461.754,    0 !   !END!  GR_R0410
DSC0425 ! X =   652.5500,   6058.250,    461.000,    0 !   !END!  GR_R0411
DSC0426 ! X =   652.6000,   6058.250,    462.621,    0 !   !END!  GR_R0412
DSC0427 ! X =   652.6500,   6058.250,    463.900,    0 !   !END!  GR_R0413
DSC0428 ! X =   652.7000,   6058.250,    465.000,    0 !   !END!  GR_R0414
DSC0429 ! X =   652.7500,   6058.250,    465.000,    0 !   !END!  GR_R0415
DSC0430 ! X =   652.8000,   6058.250,    464.791,    0 !   !END!  GR_R0416
DSC0431 ! X =   652.8500,   6058.250,    463.000,    0 !   !END!  GR_R0417
DSC0432 ! X =   652.9000,   6058.250,    462.000,    0 !   !END!  GR_R0418
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DSC0433 ! X =   651.9000,   6058.300,    496.285,    0 !   !END!  GR_R0419
DSC0434 ! X =   651.9500,   6058.300,    490.990,    0 !   !END!  GR_R0420
DSC0435 ! X =   652.0000,   6058.300,    489.131,    0 !   !END!  GR_R0421
DSC0436 ! X =   652.0500,   6058.300,    488.148,    0 !   !END!  GR_R0422
DSC0437 ! X =   652.1000,   6058.300,    484.570,    0 !   !END!  GR_R0423
DSC0438 ! X =   652.1500,   6058.300,    481.030,    0 !   !END!  GR_R0424
DSC0439 ! X =   652.2000,   6058.300,    477.615,    0 !   !END!  GR_R0425
DSC0440 ! X =   652.2500,   6058.300,    474.430,    0 !   !END!  GR_R0426
DSC0441 ! X =   652.3000,   6058.300,    471.748,    0 !   !END!  GR_R0427
DSC0442 ! X =   652.3500,   6058.300,    468.904,    0 !   !END!  GR_R0428
DSC0443 ! X =   652.4000,   6058.300,    466.706,    0 !   !END!  GR_R0429
DSC0444 ! X =   652.4500,   6058.300,    464.247,    0 !   !END!  GR_R0430
DSC0445 ! X =   652.5000,   6058.300,    461.000,    0 !   !END!  GR_R0431
DSC0446 ! X =   652.5500,   6058.300,    462.000,    0 !   !END!  GR_R0432
DSC0447 ! X =   652.6000,   6058.300,    463.000,    0 !   !END!  GR_R0433
DSC0448 ! X =   652.6500,   6058.300,    464.516,    0 !   !END!  GR_R0434
DSC0449 ! X =   652.7000,   6058.300,    465.917,    0 !   !END!  GR_R0435
DSC0450 ! X =   652.7500,   6058.300,    466.000,    0 !   !END!  GR_R0436
DSC0451 ! X =   652.8000,   6058.300,    465.000,    0 !   !END!  GR_R0437
DSC0452 ! X =   652.8500,   6058.300,    463.000,    0 !   !END!  GR_R0438
DSC0453 ! X =   652.9000,   6058.300,    462.000,    0 !   !END!  GR_R0439
DSC0454 ! X =   651.5000,   6057.700,    488.000,    0 !   !END!  GR_R0440
DSC0455 ! X =   651.5500,   6057.700,    490.990,    0 !   !END!  GR_R0441
DSC0456 ! X =   651.6000,   6057.700,    493.639,    0 !   !END!  GR_R0442
DSC0457 ! X =   651.6500,   6057.700,    494.576,    0 !   !END!  GR_R0443
DSC0458 ! X =   651.7000,   6057.700,    494.504,    0 !   !END!  GR_R0444
DSC0459 ! X =   651.7500,   6057.700,    493.805,    0 !   !END!  GR_R0445
DSC0460 ! X =   651.8000,   6057.700,    492.720,    0 !   !END!  GR_R0446
DSC0461 ! X =   651.8500,   6057.700,    493.576,    0 !   !END!  GR_R0447
DSC0462 ! X =   651.5000,   6057.750,    487.036,    0 !   !END!  GR_R0448
DSC0463 ! X =   651.5500,   6057.750,    491.395,    0 !   !END!  GR_R0449
DSC0464 ! X =   651.6000,   6057.750,    495.089,    0 !   !END!  GR_R0450
DSC0465 ! X =   651.6500,   6057.750,    496.731,    0 !   !END!  GR_R0451
DSC0466 ! X =   651.7000,   6057.750,    497.019,    0 !   !END!  GR_R0452
DSC0467 ! X =   651.7500,   6057.750,    497.174,    0 !   !END!  GR_R0453
DSC0468 ! X =   651.8000,   6057.750,    497.030,    0 !   !END!  GR_R0454
DSC0469 ! X =   651.8500,   6057.750,    497.443,    0 !   !END!  GR_R0455
DSC0470 ! X =   651.5000,   6057.800,    490.287,    0 !   !END!  GR_R0456
DSC0471 ! X =   651.5500,   6057.800,    494.085,    0 !   !END!  GR_R0457
DSC0472 ! X =   651.6000,   6057.800,    497.194,    0 !   !END!  GR_R0458
DSC0473 ! X =   651.6500,   6057.800,    498.886,    0 !   !END!  GR_R0459
DSC0474 ! X =   651.7000,   6057.800,    499.480,    0 !   !END!  GR_R0460
DSC0475 ! X =   651.7500,   6057.800,    499.742,    0 !   !END!  GR_R0461
DSC0476 ! X =   651.8000,   6057.800,    500.670,    0 !   !END!  GR_R0462
DSC0477 ! X =   651.8500,   6057.800,    501.197,    0 !   !END!  GR_R0463
DSC0478 ! X =   651.5000,   6057.850,    495.773,    0 !   !END!  GR_R0464
DSC0479 ! X =   651.5500,   6057.850,    497.896,    0 !   !END!  GR_R0465
DSC0480 ! X =   651.6000,   6057.850,    500.114,    0 !   !END!  GR_R0466
DSC0481 ! X =   651.6500,   6057.850,    501.042,    0 !   !END!  GR_R0467
DSC0482 ! X =   651.7000,   6057.850,    501.760,    0 !   !END!  GR_R0468
DSC0483 ! X =   651.7500,   6057.850,    502.408,    0 !   !END!  GR_R0469
DSC0484 ! X =   651.8000,   6057.850,    502.865,    0 !   !END!  GR_R0470
DSC0485 ! X =   651.8500,   6057.850,    503.754,    0 !   !END!  GR_R0471
DSC0486 ! X =   651.5000,   6057.900,    501.771,    0 !   !END!  GR_R0472
DSC0487 ! X =   651.5500,   6057.900,    501.682,    0 !   !END!  GR_R0473
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DSC0488 ! X =   651.6000,   6057.900,    502.269,    0 !   !END!  GR_R0474
DSC0489 ! X =   651.6500,   6057.900,    503.000,    0 !   !END!  GR_R0475
DSC0490 ! X =   651.7000,   6057.900,    503.114,    0 !   !END!  GR_R0476
DSC0491 ! X =   651.7500,   6057.900,    504.000,    0 !   !END!  GR_R0477
DSC0492 ! X =   651.8000,   6057.900,    504.000,    0 !   !END!  GR_R0478
DSC0493 ! X =   651.8500,   6057.900,    504.000,    0 !   !END!  GR_R0479
DSC0494 ! X =   651.5000,   6057.950,    504.389,    0 !   !END!  GR_R0480
DSC0495 ! X =   651.5500,   6057.950,    504.390,    0 !   !END!  GR_R0481
DSC0496 ! X =   651.6000,   6057.950,    504.000,    0 !   !END!  GR_R0482
DSC0497 ! X =   651.6500,   6057.950,    504.000,    0 !   !END!  GR_R0483
DSC0498 ! X =   651.7000,   6057.950,    504.011,    0 !   !END!  GR_R0484
DSC0499 ! X =   651.7500,   6057.950,    504.806,    0 !   !END!  GR_R0485
DSC0500 ! X =   651.8000,   6057.950,    505.000,    0 !   !END!  GR_R0486
DSC0501 ! X =   651.8500,   6057.950,    505.000,    0 !   !END!  GR_R0487
DSC0502 ! X =   651.5000,   6058.000,    505.723,    0 !   !END!  GR_R0488
DSC0503 ! X =   651.5500,   6058.000,    505.639,    0 !   !END!  GR_R0489
DSC0504 ! X =   651.6000,   6058.000,    505.000,    0 !   !END!  GR_R0490
DSC0505 ! X =   651.6500,   6058.000,    504.729,    0 !   !END!  GR_R0491
DSC0506 ! X =   651.7000,   6058.000,    505.000,    0 !   !END!  GR_R0492
DSC0507 ! X =   651.7500,   6058.000,    505.000,    0 !   !END!  GR_R0493
DSC0508 ! X =   651.8000,   6058.000,    505.116,    0 !   !END!  GR_R0494
DSC0509 ! X =   651.8500,   6058.000,    505.000,    0 !   !END!  GR_R0495
DSC0510 ! X =   651.5000,   6058.050,    506.506,    0 !   !END!  GR_R0496
DSC0511 ! X =   651.5500,   6058.050,    506.000,    0 !   !END!  GR_R0497
DSC0512 ! X =   651.6000,   6058.050,    505.103,    0 !   !END!  GR_R0498
DSC0513 ! X =   651.6500,   6058.050,    505.000,    0 !   !END!  GR_R0499
DSC0514 ! X =   651.7000,   6058.050,    505.000,    0 !   !END!  GR_R0500
DSC0515 ! X =   651.7500,   6058.050,    506.000,    0 !   !END!  GR_R0501
DSC0516 ! X =   651.8000,   6058.050,    505.280,    0 !   !END!  GR_R0502
DSC0517 ! X =   651.8500,   6058.050,    505.000,    0 !   !END!  GR_R0503
DSC0518 ! X =   651.5000,   6058.100,    507.000,    0 !   !END!  GR_R0504
DSC0519 ! X =   651.5500,   6058.100,    506.000,    0 !   !END!  GR_R0505
DSC0520 ! X =   651.6000,   6058.100,    506.000,    0 !   !END!  GR_R0506
DSC0521 ! X =   651.6500,   6058.100,    505.000,    0 !   !END!  GR_R0507
DSC0522 ! X =   651.7000,   6058.100,    505.414,    0 !   !END!  GR_R0508
DSC0523 ! X =   651.7500,   6058.100,    506.000,    0 !   !END!  GR_R0509
DSC0524 ! X =   651.8000,   6058.100,    505.062,    0 !   !END!  GR_R0510
DSC0525 ! X =   651.8500,   6058.100,    504.701,    0 !   !END!  GR_R0511
DSC0526 ! X =   651.5000,   6058.150,    507.000,    0 !   !END!  GR_R0512
DSC0527 ! X =   651.5500,   6058.150,    506.000,    0 !   !END!  GR_R0513
DSC0528 ! X =   651.6000,   6058.150,    505.000,    0 !   !END!  GR_R0514
DSC0529 ! X =   651.6500,   6058.150,    505.000,    0 !   !END!  GR_R0515
DSC0530 ! X =   651.7000,   6058.150,    505.000,    0 !   !END!  GR_R0516
DSC0531 ! X =   651.7500,   6058.150,    506.000,    0 !   !END!  GR_R0517
DSC0532 ! X =   651.8000,   6058.150,    505.000,    0 !   !END!  GR_R0518
DSC0533 ! X =   651.8500,   6058.150,    504.000,    0 !   !END!  GR_R0519
DSC0534 ! X =   651.5000,   6058.200,    506.132,    0 !   !END!  GR_R0520
DSC0535 ! X =   651.5500,   6058.200,    506.000,    0 !   !END!  GR_R0521
DSC0536 ! X =   651.6000,   6058.200,    505.000,    0 !   !END!  GR_R0522
DSC0537 ! X =   651.6500,   6058.200,    505.000,    0 !   !END!  GR_R0523
DSC0538 ! X =   651.7000,   6058.200,    505.000,    0 !   !END!  GR_R0524
DSC0539 ! X =   651.7500,   6058.200,    505.000,    0 !   !END!  GR_R0525
DSC0540 ! X =   651.8000,   6058.200,    505.000,    0 !   !END!  GR_R0526
DSC0541 ! X =   651.8500,   6058.200,    504.000,    0 !   !END!  GR_R0527
DSC0542 ! X =   651.5000,   6058.250,    506.000,    0 !   !END!  GR_R0528
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DSC0543 ! X =   651.5500,   6058.250,    505.207,    0 !   !END!  GR_R0529
DSC0544 ! X =   651.6000,   6058.250,    504.874,    0 !   !END!  GR_R0530
DSC0545 ! X =   651.6500,   6058.250,    504.000,    0 !   !END!  GR_R0531
DSC0546 ! X =   651.7000,   6058.250,    504.000,    0 !   !END!  GR_R0532
DSC0547 ! X =   651.7500,   6058.250,    504.861,    0 !   !END!  GR_R0533
DSC0548 ! X =   651.8000,   6058.250,    504.000,    0 !   !END!  GR_R0534
DSC0549 ! X =   651.8500,   6058.250,    503.070,    0 !   !END!  GR_R0535
DSC0550 ! X =   651.5000,   6058.300,    505.329,    0 !   !END!  GR_R0536
DSC0551 ! X =   651.5500,   6058.300,    505.000,    0 !   !END!  GR_R0537
DSC0552 ! X =   651.6000,   6058.300,    504.000,    0 !   !END!  GR_R0538
DSC0553 ! X =   651.6500,   6058.300,    503.000,    0 !   !END!  GR_R0539
DSC0554 ! X =   651.7000,   6058.300,    503.547,    0 !   !END!  GR_R0540
DSC0555 ! X =   651.7500,   6058.300,    503.706,    0 !   !END!  GR_R0541
DSC0556 ! X =   651.8000,   6058.300,    502.778,    0 !   !END!  GR_R0542
DSC0557 ! X =   651.8500,   6058.300,    501.649,    0 !   !END!  GR_R0543
DSC0558 ! X =   651.5000,   6058.350,    505.000,    0 !   !END!  GR_R0544
DSC0559 ! X =   651.5500,   6058.350,    505.000,    0 !   !END!  GR_R0545
DSC0560 ! X =   651.6000,   6058.350,    504.000,    0 !   !END!  GR_R0546
DSC0561 ! X =   651.6500,   6058.350,    501.811,    0 !   !END!  GR_R0547
DSC0562 ! X =   651.7000,   6058.350,    499.957,    0 !   !END!  GR_R0548
DSC0563 ! X =   651.7500,   6058.350,    500.965,    0 !   !END!  GR_R0549
DSC0564 ! X =   651.8000,   6058.350,    500.445,    0 !   !END!  GR_R0550
DSC0565 ! X =   651.8500,   6058.350,    498.510,    0 !   !END!  GR_R0551
DSC0566 ! X =   651.9000,   6058.350,    492.958,    0 !   !END!  GR_R0552
DSC0567 ! X =   651.9500,   6058.350,    487.900,    0 !   !END!  GR_R0553
DSC0568 ! X =   652.0000,   6058.350,    486.910,    0 !   !END!  GR_R0554
DSC0569 ! X =   652.0500,   6058.350,    484.982,    0 !   !END!  GR_R0555
DSC0570 ! X =   652.1000,   6058.350,    482.290,    0 !   !END!  GR_R0556
DSC0571 ! X =   652.1500,   6058.350,    479.068,    0 !   !END!  GR_R0557
DSC0572 ! X =   652.2000,   6058.350,    475.003,    0 !   !END!  GR_R0558
DSC0573 ! X =   652.2500,   6058.350,    472.000,    0 !   !END!  GR_R0559
DSC0574 ! X =   652.3000,   6058.350,    470.365,    0 !   !END!  GR_R0560
DSC0575 ! X =   652.3500,   6058.350,    468.000,    0 !   !END!  GR_R0561
DSC0576 ! X =   652.4000,   6058.350,    465.934,    0 !   !END!  GR_R0562
DSC0577 ! X =   652.4500,   6058.350,    463.219,    0 !   !END!  GR_R0563
DSC0578 ! X =   652.5000,   6058.350,    462.000,    0 !   !END!  GR_R0564
DSC0579 ! X =   651.5000,   6058.400,    504.000,    0 !   !END!  GR_R0565
DSC0580 ! X =   651.5500,   6058.400,    504.000,    0 !   !END!  GR_R0566
DSC0581 ! X =   651.6000,   6058.400,    504.223,    0 !   !END!  GR_R0567
DSC0582 ! X =   651.6500,   6058.400,    503.749,    0 !   !END!  GR_R0568
DSC0583 ! X =   651.7000,   6058.400,    499.403,    0 !   !END!  GR_R0569
DSC0584 ! X =   651.7500,   6058.400,    497.322,    0 !   !END!  GR_R0570
DSC0585 ! X =   651.8000,   6058.400,    497.467,    0 !   !END!  GR_R0571
DSC0586 ! X =   651.8500,   6058.400,    496.230,    0 !   !END!  GR_R0572
DSC0587 ! X =   651.9000,   6058.400,    491.954,    0 !   !END!  GR_R0573
DSC0588 ! X =   651.9500,   6058.400,    488.081,    0 !   !END!  GR_R0574
DSC0589 ! X =   652.0000,   6058.400,    485.541,    0 !   !END!  GR_R0575
DSC0590 ! X =   652.0500,   6058.400,    483.658,    0 !   !END!  GR_R0576
DSC0591 ! X =   652.1000,   6058.400,    480.914,    0 !   !END!  GR_R0577
DSC0592 ! X =   652.1500,   6058.400,    477.390,    0 !   !END!  GR_R0578
DSC0593 ! X =   652.2000,   6058.400,    474.660,    0 !   !END!  GR_R0579
DSC0594 ! X =   652.2500,   6058.400,    471.960,    0 !   !END!  GR_R0580
DSC0595 ! X =   652.3000,   6058.400,    470.000,    0 !   !END!  GR_R0581
DSC0596 ! X =   652.3500,   6058.400,    467.525,    0 !   !END!  GR_R0582
DSC0597 ! X =   652.4000,   6058.400,    465.000,    0 !   !END!  GR_R0583
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DSC0598 ! X =   652.4500,   6058.400,    463.039,    0 !   !END!  GR_R0584
DSC0599 ! X =   652.5000,   6058.400,    462.000,    0 !   !END!  GR_R0585
DSC0600 ! X =   651.5000,   6058.450,    503.880,    0 !   !END!  GR_R0586
DSC0601 ! X =   651.5500,   6058.450,    503.952,    0 !   !END!  GR_R0587
DSC0602 ! X =   651.6000,   6058.450,    504.856,    0 !   !END!  GR_R0588
DSC0603 ! X =   651.6500,   6058.450,    503.096,    0 !   !END!  GR_R0589
DSC0604 ! X =   651.7000,   6058.450,    497.722,    0 !   !END!  GR_R0590
DSC0605 ! X =   651.7500,   6058.450,    493.480,    0 !   !END!  GR_R0591
DSC0606 ! X =   651.8000,   6058.450,    494.312,    0 !   !END!  GR_R0592
DSC0607 ! X =   651.8500,   6058.450,    493.384,    0 !   !END!  GR_R0593
DSC0608 ! X =   651.9000,   6058.450,    491.386,    0 !   !END!  GR_R0594
DSC0609 ! X =   651.9500,   6058.450,    489.000,    0 !   !END!  GR_R0595
DSC0610 ! X =   652.0000,   6058.450,    485.416,    0 !   !END!  GR_R0596
DSC0611 ! X =   652.0500,   6058.450,    481.903,    0 !   !END!  GR_R0597
DSC0612 ! X =   652.1000,   6058.450,    478.995,    0 !   !END!  GR_R0598
DSC0613 ! X =   652.1500,   6058.450,    476.868,    0 !   !END!  GR_R0599
DSC0614 ! X =   652.2000,   6058.450,    474.000,    0 !   !END!  GR_R0600
DSC0615 ! X =   652.2500,   6058.450,    472.000,    0 !   !END!  GR_R0601
DSC0616 ! X =   652.3000,   6058.450,    469.148,    0 !   !END!  GR_R0602
DSC0617 ! X =   652.3500,   6058.450,    467.000,    0 !   !END!  GR_R0603
DSC0618 ! X =   652.4000,   6058.450,    464.685,    0 !   !END!  GR_R0604
DSC0619 ! X =   652.4500,   6058.450,    462.970,    0 !   !END!  GR_R0605
DSC0620 ! X =   652.5000,   6058.450,    462.000,    0 !   !END!  GR_R0606
DSC0621 ! X =   651.5000,   6058.500,    503.000,    0 !   !END!  GR_R0607
DSC0622 ! X =   651.5500,   6058.500,    502.797,    0 !   !END!  GR_R0608
DSC0623 ! X =   651.6000,   6058.500,    502.741,    0 !   !END!  GR_R0609
DSC0624 ! X =   651.6500,   6058.500,    498.148,    0 !   !END!  GR_R0610
DSC0625 ! X =   651.7000,   6058.500,    492.625,    0 !   !END!  GR_R0611
DSC0626 ! X =   651.7500,   6058.500,    490.287,    0 !   !END!  GR_R0612
DSC0627 ! X =   651.8000,   6058.500,    491.157,    0 !   !END!  GR_R0613
DSC0628 ! X =   651.8500,   6058.500,    490.670,    0 !   !END!  GR_R0614
DSC0629 ! X =   651.9000,   6058.500,    489.301,    0 !   !END!  GR_R0615
DSC0630 ! X =   651.9500,   6058.500,    488.002,    0 !   !END!  GR_R0616
DSC0631 ! X =   652.0000,   6058.500,    484.291,    0 !   !END!  GR_R0617
DSC0632 ! X =   652.0500,   6058.500,    480.797,    0 !   !END!  GR_R0618
DSC0633 ! X =   652.1000,   6058.500,    477.941,    0 !   !END!  GR_R0619
DSC0634 ! X =   652.1500,   6058.500,    475.713,    0 !   !END!  GR_R0620
DSC0635 ! X =   652.2000,   6058.500,    473.849,    0 !   !END!  GR_R0621
DSC0636 ! X =   652.2500,   6058.500,    471.710,    0 !   !END!  GR_R0622
DSC0637 ! X =   652.3000,   6058.500,    468.990,    0 !   !END!  GR_R0623
DSC0638 ! X =   652.3500,   6058.500,    466.275,    0 !   !END!  GR_R0624
DSC0639 ! X =   652.4000,   6058.500,    464.560,    0 !   !END!  GR_R0625
DSC0640 ! X =   652.4500,   6058.500,    462.845,    0 !   !END!  GR_R0626
DSC0641 ! X =   652.5000,   6058.500,    462.000,    0 !   !END!  GR_R0627
DSC0642 ! X =   651.5000,   6058.550,    503.000,    0 !   !END!  GR_R0628
DSC0643 ! X =   651.5500,   6058.550,    501.861,    0 !   !END!  GR_R0629
DSC0644 ! X =   651.6000,   6058.550,    499.325,    0 !   !END!  GR_R0630
DSC0645 ! X =   651.6500,   6058.550,    492.936,    0 !   !END!  GR_R0631
DSC0646 ! X =   651.7000,   6058.550,    487.924,    0 !   !END!  GR_R0632
DSC0647 ! X =   651.7500,   6058.550,    487.947,    0 !   !END!  GR_R0633
DSC0648 ! X =   651.8000,   6058.550,    489.002,    0 !   !END!  GR_R0634
DSC0649 ! X =   651.8500,   6058.550,    488.390,    0 !   !END!  GR_R0635
DSC0650 ! X =   651.9000,   6058.550,    487.146,    0 !   !END!  GR_R0636
DSC0651 ! X =   651.9500,   6058.550,    486.099,    0 !   !END!  GR_R0637
DSC0652 ! X =   652.0000,   6058.550,    482.461,    0 !   !END!  GR_R0638
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DSC0653 ! X =   652.0500,   6058.550,    479.165,    0 !   !END!  GR_R0639
DSC0654 ! X =   652.1000,   6058.550,    476.849,    0 !   !END!  GR_R0640
DSC0655 ! X =   652.1500,   6058.550,    474.518,    0 !   !END!  GR_R0641
DSC0656 ! X =   652.2000,   6058.550,    472.708,    0 !   !END!  GR_R0642
DSC0657 ! X =   652.2500,   6058.550,    470.857,    0 !   !END!  GR_R0643
DSC0658 ! X =   652.3000,   6058.550,    468.629,    0 !   !END!  GR_R0644
DSC0659 ! X =   652.3500,   6058.550,    466.120,    0 !   !END!  GR_R0645
DSC0660 ! X =   652.4000,   6058.550,    464.000,    0 !   !END!  GR_R0646
DSC0661 ! X =   652.4500,   6058.550,    462.720,    0 !   !END!  GR_R0647
DSC0662 ! X =   652.5000,   6058.550,    462.000,    0 !   !END!  GR_R0648
DSC0663 ! X =   651.5000,   6058.600,    503.122,    0 !   !END!  GR_R0649
DSC0664 ! X =   651.5500,   6058.600,    500.493,    0 !   !END!  GR_R0650
DSC0665 ! X =   651.6000,   6058.600,    496.331,    0 !   !END!  GR_R0651
DSC0666 ! X =   651.6500,   6058.600,    490.115,    0 !   !END!  GR_R0652
DSC0667 ! X =   651.7000,   6058.600,    486.538,    0 !   !END!  GR_R0653
DSC0668 ! X =   651.7500,   6058.600,    486.292,    0 !   !END!  GR_R0654
DSC0669 ! X =   651.8000,   6058.600,    486.846,    0 !   !END!  GR_R0655
DSC0670 ! X =   651.8500,   6058.600,    486.918,    0 !   !END!  GR_R0656
DSC0671 ! X =   651.9000,   6058.600,    485.467,    0 !   !END!  GR_R0657
DSC0672 ! X =   651.9500,   6058.600,    483.824,    0 !   !END!  GR_R0658
DSC0673 ! X =   652.0000,   6058.600,    480.181,    0 !   !END!  GR_R0659
DSC0674 ! X =   652.0500,   6058.600,    477.538,    0 !   !END!  GR_R0660
DSC0675 ! X =   652.1000,   6058.600,    475.172,    0 !   !END!  GR_R0661
DSC0676 ! X =   652.1500,   6058.600,    473.317,    0 !   !END!  GR_R0662
DSC0677 ! X =   652.2000,   6058.600,    471.528,    0 !   !END!  GR_R0663
DSC0678 ! X =   652.2500,   6058.600,    469.730,    0 !   !END!  GR_R0664
DSC0679 ! X =   652.3000,   6058.600,    467.423,    0 !   !END!  GR_R0665
DSC0680 ! X =   652.3500,   6058.600,    465.026,    0 !   !END!  GR_R0666
DSC0681 ! X =   652.4000,   6058.600,    463.804,    0 !   !END!  GR_R0667
DSC0682 ! X =   652.4500,   6058.600,    462.465,    0 !   !END!  GR_R0668
DSC0683 ! X =   652.5000,   6058.600,    462.125,    0 !   !END!  GR_R0669
DSC0684 ! X =   651.5000,   6058.650,    502.321,    0 !   !END!  GR_R0670
DSC0685 ! X =   651.5500,   6058.650,    498.821,    0 !   !END!  GR_R0671
DSC0686 ! X =   651.6000,   6058.650,    494.909,    0 !   !END!  GR_R0672
DSC0687 ! X =   651.6500,   6058.650,    489.933,    0 !   !END!  GR_R0673
DSC0688 ! X =   651.7000,   6058.650,    487.218,    0 !   !END!  GR_R0674
DSC0689 ! X =   651.7500,   6058.650,    485.000,    0 !   !END!  GR_R0675
DSC0690 ! X =   651.8000,   6058.650,    485.000,    0 !   !END!  GR_R0676
DSC0691 ! X =   651.8500,   6058.650,    485.000,    0 !   !END!  GR_R0677
DSC0692 ! X =   651.9000,   6058.650,    483.893,    0 !   !END!  GR_R0678
DSC0693 ! X =   651.9500,   6058.650,    481.576,    0 !   !END!  GR_R0679
DSC0694 ! X =   652.0000,   6058.650,    478.901,    0 !   !END!  GR_R0680
DSC0695 ! X =   652.0500,   6058.650,    475.258,    0 !   !END!  GR_R0681
DSC0696 ! X =   652.1000,   6058.650,    474.062,    0 !   !END!  GR_R0682
DSC0697 ! X =   652.1500,   6058.650,    472.153,    0 !   !END!  GR_R0683
DSC0698 ! X =   652.2000,   6058.650,    470.309,    0 !   !END!  GR_R0684
DSC0699 ! X =   652.2500,   6058.650,    468.564,    0 !   !END!  GR_R0685
DSC0700 ! X =   652.3000,   6058.650,    466.616,    0 !   !END!  GR_R0686
DSC0701 ! X =   652.3500,   6058.650,    464.901,    0 !   !END!  GR_R0687
DSC0702 ! X =   652.4000,   6058.650,    463.104,    0 !   !END!  GR_R0688
DSC0703 ! X =   652.4500,   6058.650,    462.000,    0 !   !END!  GR_R0689
DSC0704 ! X =   652.5000,   6058.650,    462.541,    0 !   !END!  GR_R0690
DSC0705 ! X =   651.5000,   6058.700,    500.062,    0 !   !END!  GR_R0691
DSC0706 ! X =   651.5500,   6058.700,    496.419,    0 !   !END!  GR_R0692
DSC0707 ! X =   651.6000,   6058.700,    492.771,    0 !   !END!  GR_R0693
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DSC0708 ! X =   651.6500,   6058.700,    489.128,    0 !   !END!  GR_R0694
DSC0709 ! X =   651.7000,   6058.700,    486.485,    0 !   !END!  GR_R0695
DSC0710 ! X =   651.7500,   6058.700,    484.175,    0 !   !END!  GR_R0696
DSC0711 ! X =   651.8000,   6058.700,    484.000,    0 !   !END!  GR_R0697
DSC0712 ! X =   651.8500,   6058.700,    483.608,    0 !   !END!  GR_R0698
DSC0713 ! X =   651.9000,   6058.700,    482.156,    0 !   !END!  GR_R0699
DSC0714 ! X =   651.9500,   6058.700,    480.264,    0 !   !END!  GR_R0700
DSC0715 ! X =   652.0000,   6058.700,    476.792,    0 !   !END!  GR_R0701
DSC0716 ! X =   652.0500,   6058.700,    473.908,    0 !   !END!  GR_R0702
DSC0717 ! X =   652.1000,   6058.700,    472.000,    0 !   !END!  GR_R0703
DSC0718 ! X =   652.1500,   6058.700,    471.029,    0 !   !END!  GR_R0704
DSC0719 ! X =   652.2000,   6058.700,    469.108,    0 !   !END!  GR_R0705
DSC0720 ! X =   652.2500,   6058.700,    467.360,    0 !   !END!  GR_R0706
DSC0721 ! X =   652.3000,   6058.700,    465.624,    0 !   !END!  GR_R0707
DSC0722 ! X =   652.3500,   6058.700,    464.000,    0 !   !END!  GR_R0708
DSC0723 ! X =   652.4000,   6058.700,    463.000,    0 !   !END!  GR_R0709
DSC0724 ! X =   652.4500,   6058.700,    462.523,    0 !   !END!  GR_R0710
DSC0725 ! X =   652.5000,   6058.700,    464.446,    0 !   !END!  GR_R0711
DSC0726 ! X =   651.4000,   6056.800,    461.000,    0 !   !END!  GR_R0712
DSC0727 ! X =   651.5000,   6056.800,    461.000,    0 !   !END!  GR_R0713
DSC0728 ! X =   651.6000,   6056.800,    461.000,    0 !   !END!  GR_R0714
DSC0729 ! X =   651.7000,   6056.800,    461.000,    0 !   !END!  GR_R0715
DSC0730 ! X =   651.8000,   6056.800,    461.000,    0 !   !END!  GR_R0716
DSC0731 ! X =   651.9000,   6056.800,    461.000,    0 !   !END!  GR_R0717
DSC0732 ! X =   652.0000,   6056.800,    462.066,    0 !   !END!  GR_R0718
DSC0733 ! X =   652.1000,   6056.800,    480.474,    0 !   !END!  GR_R0719
DSC0734 ! X =   652.2000,   6056.800,    488.000,    0 !   !END!  GR_R0720
DSC0735 ! X =   652.3000,   6056.800,    482.392,    0 !   !END!  GR_R0721
DSC0736 ! X =   652.4000,   6056.800,    475.943,    0 !   !END!  GR_R0722
DSC0737 ! X =   652.5000,   6056.800,    476.558,    0 !   !END!  GR_R0723
DSC0738 ! X =   652.6000,   6056.800,    479.445,    0 !   !END!  GR_R0724
DSC0739 ! X =   652.7000,   6056.800,    481.266,    0 !   !END!  GR_R0725
DSC0740 ! X =   652.8000,   6056.800,    482.111,    0 !   !END!  GR_R0726
DSC0741 ! X =   652.9000,   6056.800,    481.978,    0 !   !END!  GR_R0727
DSC0742 ! X =   653.0000,   6056.800,    480.000,    0 !   !END!  GR_R0728
DSC0743 ! X =   653.1000,   6056.800,    478.548,    0 !   !END!  GR_R0729
DSC0744 ! X =   653.2000,   6056.800,    477.000,    0 !   !END!  GR_R0730
DSC0745 ! X =   653.3000,   6056.800,    475.368,    0 !   !END!  GR_R0731
DSC0746 ! X =   653.4000,   6056.800,    474.000,    0 !   !END!  GR_R0732
DSC0747 ! X =   651.4000,   6056.900,    461.000,    0 !   !END!  GR_R0733
DSC0748 ! X =   651.5000,   6056.900,    461.805,    0 !   !END!  GR_R0734
DSC0749 ! X =   651.6000,   6056.900,    461.000,    0 !   !END!  GR_R0735
DSC0750 ! X =   651.7000,   6056.900,    461.000,    0 !   !END!  GR_R0736
DSC0751 ! X =   651.8000,   6056.900,    461.000,    0 !   !END!  GR_R0737
DSC0752 ! X =   651.9000,   6056.900,    461.000,    0 !   !END!  GR_R0738
DSC0753 ! X =   652.0000,   6056.900,    484.814,    0 !   !END!  GR_R0739
DSC0754 ! X =   652.1000,   6056.900,    490.000,    0 !   !END!  GR_R0740
DSC0755 ! X =   652.2000,   6056.900,    488.000,    0 !   !END!  GR_R0741
DSC0756 ! X =   652.3000,   6056.900,    481.989,    0 !   !END!  GR_R0742
DSC0757 ! X =   652.4000,   6056.900,    479.013,    0 !   !END!  GR_R0743
DSC0758 ! X =   652.5000,   6056.900,    479.983,    0 !   !END!  GR_R0744
DSC0759 ! X =   652.6000,   6056.900,    481.805,    0 !   !END!  GR_R0745
DSC0760 ! X =   652.7000,   6056.900,    483.576,    0 !   !END!  GR_R0746
DSC0761 ! X =   652.8000,   6056.900,    484.000,    0 !   !END!  GR_R0747
DSC0762 ! X =   652.9000,   6056.900,    482.000,    0 !   !END!  GR_R0748
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DSC0763 ! X =   653.0000,   6056.900,    480.000,    0 !   !END!  GR_R0749
DSC0764 ! X =   653.1000,   6056.900,    479.000,    0 !   !END!  GR_R0750
DSC0765 ! X =   653.2000,   6056.900,    477.017,    0 !   !END!  GR_R0751
DSC0766 ! X =   653.3000,   6056.900,    476.000,    0 !   !END!  GR_R0752
DSC0767 ! X =   653.4000,   6056.900,    474.000,    0 !   !END!  GR_R0753
DSC0768 ! X =   651.4000,   6057.000,    475.065,    0 !   !END!  GR_R0754
DSC0769 ! X =   651.5000,   6057.000,    468.806,    0 !   !END!  GR_R0755
DSC0770 ! X =   651.6000,   6057.000,    470.049,    0 !   !END!  GR_R0756
DSC0771 ! X =   651.7000,   6057.000,    461.430,    0 !   !END!  GR_R0757
DSC0772 ! X =   651.8000,   6057.000,    461.000,    0 !   !END!  GR_R0758
DSC0773 ! X =   651.9000,   6057.000,    478.301,    0 !   !END!  GR_R0759
DSC0774 ! X =   652.0000,   6057.000,    490.098,    0 !   !END!  GR_R0760
DSC0775 ! X =   652.1000,   6057.000,    487.698,    0 !   !END!  GR_R0761
DSC0776 ! X =   652.2000,   6057.000,    485.389,    0 !   !END!  GR_R0762
DSC0777 ! X =   652.3000,   6057.000,    482.000,    0 !   !END!  GR_R0763
DSC0778 ! X =   652.4000,   6057.000,    483.323,    0 !   !END!  GR_R0764
DSC0779 ! X =   652.5000,   6057.000,    484.179,    0 !   !END!  GR_R0765
DSC0780 ! X =   652.6000,   6057.000,    484.017,    0 !   !END!  GR_R0766
DSC0781 ! X =   652.7000,   6057.000,    485.871,    0 !   !END!  GR_R0767
DSC0782 ! X =   652.8000,   6057.000,    484.000,    0 !   !END!  GR_R0768
DSC0783 ! X =   652.9000,   6057.000,    481.000,    0 !   !END!  GR_R0769
DSC0784 ! X =   653.0000,   6057.000,    478.400,    0 !   !END!  GR_R0770
DSC0785 ! X =   653.1000,   6057.000,    477.000,    0 !   !END!  GR_R0771
DSC0786 ! X =   653.2000,   6057.000,    476.000,    0 !   !END!  GR_R0772
DSC0787 ! X =   653.3000,   6057.000,    475.000,    0 !   !END!  GR_R0773
DSC0788 ! X =   653.4000,   6057.000,    473.135,    0 !   !END!  GR_R0774
DSC0789 ! X =   651.4000,   6057.100,    475.368,    0 !   !END!  GR_R0775
DSC0790 ! X =   651.5000,   6057.100,    472.058,    0 !   !END!  GR_R0776
DSC0791 ! X =   651.6000,   6057.100,    472.712,    0 !   !END!  GR_R0777
DSC0792 ! X =   651.7000,   6057.100,    467.318,    0 !   !END!  GR_R0778
DSC0793 ! X =   651.8000,   6057.100,    472.682,    0 !   !END!  GR_R0779
DSC0794 ! X =   651.9000,   6057.100,    482.430,    0 !   !END!  GR_R0780
DSC0795 ! X =   652.0000,   6057.100,    485.836,    0 !   !END!  GR_R0781
DSC0796 ! X =   652.1000,   6057.100,    488.000,    0 !   !END!  GR_R0782
DSC0797 ! X =   652.2000,   6057.100,    486.842,    0 !   !END!  GR_R0783
DSC0798 ! X =   652.3000,   6057.100,    486.158,    0 !   !END!  GR_R0784
DSC0799 ! X =   652.4000,   6057.100,    487.634,    0 !   !END!  GR_R0785
DSC0800 ! X =   652.5000,   6057.100,    488.000,    0 !   !END!  GR_R0786
DSC0801 ! X =   652.6000,   6057.100,    486.273,    0 !   !END!  GR_R0787
DSC0802 ! X =   652.7000,   6057.100,    487.000,    0 !   !END!  GR_R0788
DSC0803 ! X =   652.8000,   6057.100,    483.000,    0 !   !END!  GR_R0789
DSC0804 ! X =   652.9000,   6057.100,    479.083,    0 !   !END!  GR_R0790
DSC0805 ! X =   653.0000,   6057.100,    476.114,    0 !   !END!  GR_R0791
DSC0806 ! X =   653.1000,   6057.100,    474.384,    0 !   !END!  GR_R0792
DSC0807 ! X =   653.2000,   6057.100,    475.000,    0 !   !END!  GR_R0793
DSC0808 ! X =   653.3000,   6057.100,    474.000,    0 !   !END!  GR_R0794
DSC0809 ! X =   653.4000,   6057.100,    472.755,    0 !   !END!  GR_R0795
DSC0810 ! X =   651.4000,   6057.200,    476.461,    0 !   !END!  GR_R0796
DSC0811 ! X =   651.5000,   6057.200,    475.245,    0 !   !END!  GR_R0797
DSC0812 ! X =   651.6000,   6057.200,    475.332,    0 !   !END!  GR_R0798
DSC0813 ! X =   651.7000,   6057.200,    473.914,    0 !   !END!  GR_R0799
DSC0814 ! X =   651.8000,   6057.200,    474.927,    0 !   !END!  GR_R0800
DSC0815 ! X =   651.9000,   6057.200,    482.038,    0 !   !END!  GR_R0801
DSC0816 ! X =   652.0000,   6057.200,    487.520,    0 !   !END!  GR_R0802
DSC0817 ! X =   652.1000,   6057.200,    488.000,    0 !   !END!  GR_R0803
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DSC0818 ! X =   652.2000,   6057.200,    486.485,    0 !   !END!  GR_R0804
DSC0819 ! X =   652.3000,   6057.200,    489.021,    0 !   !END!  GR_R0805
DSC0820 ! X =   652.4000,   6057.200,    490.000,    0 !   !END!  GR_R0806
DSC0821 ! X =   652.5000,   6057.200,    489.379,    0 !   !END!  GR_R0807
DSC0822 ! X =   652.6000,   6057.200,    488.669,    0 !   !END!  GR_R0808
DSC0823 ! X =   652.7000,   6057.200,    486.756,    0 !   !END!  GR_R0809
DSC0824 ! X =   652.8000,   6057.200,    481.669,    0 !   !END!  GR_R0810
DSC0825 ! X =   652.9000,   6057.200,    476.927,    0 !   !END!  GR_R0811
DSC0826 ! X =   653.0000,   6057.200,    473.946,    0 !   !END!  GR_R0812
DSC0827 ! X =   653.1000,   6057.200,    472.000,    0 !   !END!  GR_R0813
DSC0828 ! X =   653.2000,   6057.200,    473.719,    0 !   !END!  GR_R0814
DSC0829 ! X =   653.3000,   6057.200,    474.000,    0 !   !END!  GR_R0815
DSC0830 ! X =   653.4000,   6057.200,    471.256,    0 !   !END!  GR_R0816
DSC0831 ! X =   651.4000,   6057.300,    478.699,    0 !   !END!  GR_R0817
DSC0832 ! X =   651.5000,   6057.300,    478.555,    0 !   !END!  GR_R0818
DSC0833 ! X =   651.6000,   6057.300,    479.411,    0 !   !END!  GR_R0819
DSC0834 ! X =   651.7000,   6057.300,    479.267,    0 !   !END!  GR_R0820
DSC0835 ! X =   651.8000,   6057.300,    478.118,    0 !   !END!  GR_R0821
DSC0836 ! X =   653.0000,   6057.300,    470.619,    0 !   !END!  GR_R0822
DSC0837 ! X =   653.1000,   6057.300,    468.763,    0 !   !END!  GR_R0823
DSC0838 ! X =   653.2000,   6057.300,    469.912,    0 !   !END!  GR_R0824
DSC0839 ! X =   653.3000,   6057.300,    472.056,    0 !   !END!  GR_R0825
DSC0840 ! X =   653.4000,   6057.300,    472.599,    0 !   !END!  GR_R0826
DSC0841 ! X =   651.4000,   6057.400,    480.387,    0 !   !END!  GR_R0827
DSC0842 ! X =   651.5000,   6057.400,    481.866,    0 !   !END!  GR_R0828
DSC0843 ! X =   651.6000,   6057.400,    482.789,    0 !   !END!  GR_R0829
DSC0844 ! X =   651.7000,   6057.400,    483.573,    0 !   !END!  GR_R0830
DSC0845 ! X =   651.8000,   6057.400,    481.429,    0 !   !END!  GR_R0831
DSC0846 ! X =   653.0000,   6057.400,    467.223,    0 !   !END!  GR_R0832
DSC0847 ! X =   653.1000,   6057.400,    465.867,    0 !   !END!  GR_R0833
DSC0848 ! X =   653.2000,   6057.400,    468.398,    0 !   !END!  GR_R0834
DSC0849 ! X =   653.3000,   6057.400,    468.254,    0 !   !END!  GR_R0835
DSC0850 ! X =   653.4000,   6057.400,    469.224,    0 !   !END!  GR_R0836
DSC0851 ! X =   651.4000,   6057.500,    482.200,    0 !   !END!  GR_R0837
DSC0852 ! X =   651.5000,   6057.500,    485.011,    0 !   !END!  GR_R0838
DSC0853 ! X =   651.6000,   6057.500,    486.505,    0 !   !END!  GR_R0839
DSC0854 ! X =   651.7000,   6057.500,    487.883,    0 !   !END!  GR_R0840
DSC0855 ! X =   651.8000,   6057.500,    484.739,    0 !   !END!  GR_R0841
DSC0856 ! X =   653.0000,   6057.500,    464.473,    0 !   !END!  GR_R0842
DSC0857 ! X =   653.1000,   6057.500,    468.994,    0 !   !END!  GR_R0843
DSC0858 ! X =   653.2000,   6057.500,    472.709,    0 !   !END!  GR_R0844
DSC0859 ! X =   653.3000,   6057.500,    471.178,    0 !   !END!  GR_R0845
DSC0860 ! X =   653.4000,   6057.500,    476.501,    0 !   !END!  GR_R0846
DSC0861 ! X =   651.4000,   6057.600,    483.548,    0 !   !END!  GR_R0847
DSC0862 ! X =   651.5000,   6057.600,    487.640,    0 !   !END!  GR_R0848
DSC0863 ! X =   651.6000,   6057.600,    489.828,    0 !   !END!  GR_R0849
DSC0864 ! X =   651.7000,   6057.600,    491.160,    0 !   !END!  GR_R0850
DSC0865 ! X =   651.8000,   6057.600,    487.050,    0 !   !END!  GR_R0851
DSC0866 ! X =   653.0000,   6057.600,    465.093,    0 !   !END!  GR_R0852
DSC0867 ! X =   653.1000,   6057.600,    472.344,    0 !   !END!  GR_R0853
DSC0868 ! X =   653.2000,   6057.600,    472.352,    0 !   !END!  GR_R0854
DSC0869 ! X =   653.3000,   6057.600,    473.957,    0 !   !END!  GR_R0855
DSC0870 ! X =   653.4000,   6057.600,    487.453,    0 !   !END!  GR_R0856
DSC0871 ! X =   651.4000,   6057.700,    484.944,    0 !   !END!  GR_R0857
DSC0872 ! X =   653.0000,   6057.700,    464.438,    0 !   !END!  GR_R0858
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DSC0873 ! X =   653.1000,   6057.700,    471.308,    0 !   !END!  GR_R0859
DSC0874 ! X =   653.2000,   6057.700,    471.623,    0 !   !END!  GR_R0860
DSC0875 ! X =   653.3000,   6057.700,    487.637,    0 !   !END!  GR_R0861
DSC0876 ! X =   653.4000,   6057.700,    482.413,    0 !   !END!  GR_R0862
DSC0877 ! X =   651.4000,   6057.800,    487.374,    0 !   !END!  GR_R0863
DSC0878 ! X =   653.0000,   6057.800,    461.000,    0 !   !END!  GR_R0864
DSC0879 ! X =   653.1000,   6057.800,    472.432,    0 !   !END!  GR_R0865
DSC0880 ! X =   653.2000,   6057.800,    482.810,    0 !   !END!  GR_R0866
DSC0881 ! X =   653.3000,   6057.800,    485.432,    0 !   !END!  GR_R0867
DSC0882 ! X =   653.4000,   6057.800,    470.946,    0 !   !END!  GR_R0868
DSC0883 ! X =   651.4000,   6057.900,    493.909,    0 !   !END!  GR_R0869
DSC0884 ! X =   653.0000,   6057.900,    461.000,    0 !   !END!  GR_R0870
DSC0885 ! X =   653.1000,   6057.900,    472.870,    0 !   !END!  GR_R0871
DSC0886 ! X =   653.2000,   6057.900,    478.149,    0 !   !END!  GR_R0872
DSC0887 ! X =   653.3000,   6057.900,    471.789,    0 !   !END!  GR_R0873
DSC0888 ! X =   653.4000,   6057.900,    461.000,    0 !   !END!  GR_R0874
DSC0889 ! X =   651.4000,   6058.000,    503.719,    0 !   !END!  GR_R0875
DSC0890 ! X =   653.0000,   6058.000,    461.000,    0 !   !END!  GR_R0876
DSC0891 ! X =   653.1000,   6058.000,    472.723,    0 !   !END!  GR_R0877
DSC0892 ! X =   653.2000,   6058.000,    466.834,    0 !   !END!  GR_R0878
DSC0893 ! X =   653.3000,   6058.000,    461.000,    0 !   !END!  GR_R0879
DSC0894 ! X =   653.4000,   6058.000,    461.000,    0 !   !END!  GR_R0880
DSC0895 ! X =   651.4000,   6058.100,    507.000,    0 !   !END!  GR_R0881
DSC0896 ! X =   653.0000,   6058.100,    463.141,    0 !   !END!  GR_R0882
DSC0897 ! X =   653.1000,   6058.100,    461.854,    0 !   !END!  GR_R0883
DSC0898 ! X =   653.2000,   6058.100,    461.000,    0 !   !END!  GR_R0884
DSC0899 ! X =   653.3000,   6058.100,    461.000,    0 !   !END!  GR_R0885
DSC0900 ! X =   653.4000,   6058.100,    461.000,    0 !   !END!  GR_R0886
DSC0901 ! X =   651.4000,   6058.200,    507.000,    0 !   !END!  GR_R0887
DSC0902 ! X =   653.0000,   6058.200,    461.000,    0 !   !END!  GR_R0888
DSC0903 ! X =   653.1000,   6058.200,    461.000,    0 !   !END!  GR_R0889
DSC0904 ! X =   653.2000,   6058.200,    461.000,    0 !   !END!  GR_R0890
DSC0905 ! X =   653.3000,   6058.200,    461.000,    0 !   !END!  GR_R0891
DSC0906 ! X =   653.4000,   6058.200,    461.000,    0 !   !END!  GR_R0892
DSC0907 ! X =   651.4000,   6058.300,    505.202,    0 !   !END!  GR_R0893
DSC0908 ! X =   653.0000,   6058.300,    461.000,    0 !   !END!  GR_R0894
DSC0909 ! X =   653.1000,   6058.300,    461.000,    0 !   !END!  GR_R0895
DSC0910 ! X =   653.2000,   6058.300,    461.000,    0 !   !END!  GR_R0896
DSC0911 ! X =   653.3000,   6058.300,    461.000,    0 !   !END!  GR_R0897
DSC0912 ! X =   653.4000,   6058.300,    461.000,    0 !   !END!  GR_R0898
DSC0913 ! X =   651.4000,   6058.400,    503.891,    0 !   !END!  GR_R0899
DSC0914 ! X =   652.6000,   6058.400,    464.406,    0 !   !END!  GR_R0900
DSC0915 ! X =   652.7000,   6058.400,    467.000,    0 !   !END!  GR_R0901
DSC0916 ! X =   652.8000,   6058.400,    464.078,    0 !   !END!  GR_R0902
DSC0917 ! X =   652.9000,   6058.400,    461.039,    0 !   !END!  GR_R0903
DSC0918 ! X =   653.0000,   6058.400,    461.000,    0 !   !END!  GR_R0904
DSC0919 ! X =   653.1000,   6058.400,    461.000,    0 !   !END!  GR_R0905
DSC0920 ! X =   653.2000,   6058.400,    461.000,    0 !   !END!  GR_R0906
DSC0921 ! X =   653.3000,   6058.400,    461.000,    0 !   !END!  GR_R0907
DSC0922 ! X =   653.4000,   6058.400,    461.000,    0 !   !END!  GR_R0908
DSC0923 ! X =   651.4000,   6058.500,    502.484,    0 !   !END!  GR_R0909
DSC0924 ! X =   652.6000,   6058.500,    466.000,    0 !   !END!  GR_R0910
DSC0925 ! X =   652.7000,   6058.500,    468.880,    0 !   !END!  GR_R0911
DSC0926 ! X =   652.8000,   6058.500,    464.155,    0 !   !END!  GR_R0912
DSC0927 ! X =   652.9000,   6058.500,    461.000,    0 !   !END!  GR_R0913
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DSC0928 ! X =   653.0000,   6058.500,    461.000,    0 !   !END!  GR_R0914
DSC0929 ! X =   653.1000,   6058.500,    461.000,    0 !   !END!  GR_R0915
DSC0930 ! X =   653.2000,   6058.500,    461.000,    0 !   !END!  GR_R0916
DSC0931 ! X =   653.3000,   6058.500,    461.000,    0 !   !END!  GR_R0917
DSC0932 ! X =   653.4000,   6058.500,    461.000,    0 !   !END!  GR_R0918
DSC0933 ! X =   651.4000,   6058.600,    503.264,    0 !   !END!  GR_R0919
DSC0934 ! X =   652.6000,   6058.600,    467.996,    0 !   !END!  GR_R0920
DSC0935 ! X =   652.7000,   6058.600,    470.848,    0 !   !END!  GR_R0921
DSC0936 ! X =   652.8000,   6058.600,    469.987,    0 !   !END!  GR_R0922
DSC0937 ! X =   652.9000,   6058.600,    464.730,    0 !   !END!  GR_R0923
DSC0938 ! X =   653.0000,   6058.600,    461.822,    0 !   !END!  GR_R0924
DSC0939 ! X =   653.1000,   6058.600,    461.000,    0 !   !END!  GR_R0925
DSC0940 ! X =   653.2000,   6058.600,    461.000,    0 !   !END!  GR_R0926
DSC0941 ! X =   653.3000,   6058.600,    461.000,    0 !   !END!  GR_R0927
DSC0942 ! X =   653.4000,   6058.600,    461.000,    0 !   !END!  GR_R0928
DSC0943 ! X =   651.4000,   6058.700,    505.000,    0 !   !END!  GR_R0929
DSC0944 ! X =   652.6000,   6058.700,    470.867,    0 !   !END!  GR_R0930
DSC0945 ! X =   652.7000,   6058.700,    472.158,    0 !   !END!  GR_R0931
DSC0946 ! X =   652.8000,   6058.700,    474.014,    0 !   !END!  GR_R0932
DSC0947 ! X =   652.9000,   6058.700,    472.760,    0 !   !END!  GR_R0933
DSC0948 ! X =   653.0000,   6058.700,    468.902,    0 !   !END!  GR_R0934
DSC0949 ! X =   653.1000,   6058.700,    462.578,    0 !   !END!  GR_R0935
DSC0950 ! X =   653.2000,   6058.700,    461.000,    0 !   !END!  GR_R0936
DSC0951 ! X =   653.3000,   6058.700,    461.000,    0 !   !END!  GR_R0937
DSC0952 ! X =   653.4000,   6058.700,    461.000,    0 !   !END!  GR_R0938
DSC0953 ! X =   651.4000,   6058.800,    502.299,    0 !   !END!  GR_R0939
DSC0954 ! X =   651.5000,   6058.800,    492.296,    0 !   !END!  GR_R0940
DSC0955 ! X =   651.6000,   6058.800,    488.261,    0 !   !END!  GR_R0941
DSC0956 ! X =   651.7000,   6058.800,    483.925,    0 !   !END!  GR_R0942
DSC0957 ! X =   651.8000,   6058.800,    481.226,    0 !   !END!  GR_R0943
DSC0958 ! X =   651.9000,   6058.800,    480.366,    0 !   !END!  GR_R0944
DSC0959 ! X =   652.0000,   6058.800,    475.542,    0 !   !END!  GR_R0945
DSC0960 ! X =   652.1000,   6058.800,    471.036,    0 !   !END!  GR_R0946
DSC0961 ! X =   652.2000,   6058.800,    466.806,    0 !   !END!  GR_R0947
DSC0962 ! X =   652.3000,   6058.800,    464.000,    0 !   !END!  GR_R0948
DSC0963 ! X =   652.4000,   6058.800,    465.094,    0 !   !END!  GR_R0949
DSC0964 ! X =   652.5000,   6058.800,    469.381,    0 !   !END!  GR_R0950
DSC0965 ! X =   652.6000,   6058.800,    473.000,    0 !   !END!  GR_R0951
DSC0966 ! X =   652.7000,   6058.800,    473.230,    0 !   !END!  GR_R0952
DSC0967 ! X =   652.8000,   6058.800,    475.000,    0 !   !END!  GR_R0953
DSC0968 ! X =   652.9000,   6058.800,    474.640,    0 !   !END!  GR_R0954
DSC0969 ! X =   653.0000,   6058.800,    471.178,    0 !   !END!  GR_R0955
DSC0970 ! X =   653.1000,   6058.800,    462.599,    0 !   !END!  GR_R0956
DSC0971 ! X =   653.2000,   6058.800,    461.000,    0 !   !END!  GR_R0957
DSC0972 ! X =   653.3000,   6058.800,    461.000,    0 !   !END!  GR_R0958
DSC0973 ! X =   653.4000,   6058.800,    461.000,    0 !   !END!  GR_R0959
DSC0974 ! X =   651.0000,   6057.200,    471.846,    0 !   !END!  GR_R0960
DSC0975 ! X =   651.1000,   6057.200,    470.411,    0 !   !END!  GR_R0961
DSC0976 ! X =   651.2000,   6057.200,    473.014,    0 !   !END!  GR_R0962
DSC0977 ! X =   651.3000,   6057.200,    476.000,    0 !   !END!  GR_R0963
DSC0978 ! X =   651.0000,   6057.300,    471.566,    0 !   !END!  GR_R0964
DSC0979 ! X =   651.1000,   6057.300,    473.857,    0 !   !END!  GR_R0965
DSC0980 ! X =   651.2000,   6057.300,    474.991,    0 !   !END!  GR_R0966
DSC0981 ! X =   651.3000,   6057.300,    477.000,    0 !   !END!  GR_R0967
DSC0982 ! X =   651.0000,   6057.400,    473.000,    0 !   !END!  GR_R0968
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DSC0983 ! X =   651.1000,   6057.400,    475.037,    0 !   !END!  GR_R0969
DSC0984 ! X =   651.2000,   6057.400,    477.000,    0 !   !END!  GR_R0970
DSC0985 ! X =   651.3000,   6057.400,    478.145,    0 !   !END!  GR_R0971
DSC0986 ! X =   651.0000,   6057.500,    473.101,    0 !   !END!  GR_R0972
DSC0987 ! X =   651.1000,   6057.500,    477.747,    0 !   !END!  GR_R0973
DSC0988 ! X =   651.2000,   6057.500,    479.461,    0 !   !END!  GR_R0974
DSC0989 ! X =   651.3000,   6057.500,    480.000,    0 !   !END!  GR_R0975
DSC0990 ! X =   651.0000,   6057.600,    477.350,    0 !   !END!  GR_R0976
DSC0991 ! X =   651.1000,   6057.600,    481.058,    0 !   !END!  GR_R0977
DSC0992 ! X =   651.2000,   6057.600,    481.914,    0 !   !END!  GR_R0978
DSC0993 ! X =   651.3000,   6057.600,    481.872,    0 !   !END!  GR_R0979
DSC0994 ! X =   651.0000,   6057.700,    481.910,    0 !   !END!  GR_R0980
DSC0995 ! X =   651.1000,   6057.700,    484.368,    0 !   !END!  GR_R0981
DSC0996 ! X =   651.2000,   6057.700,    484.224,    0 !   !END!  GR_R0982
DSC0997 ! X =   651.3000,   6057.700,    483.361,    0 !   !END!  GR_R0983
DSC0998 ! X =   651.0000,   6057.800,    485.822,    0 !   !END!  GR_R0984
DSC0999 ! X =   651.1000,   6057.800,    488.000,    0 !   !END!  GR_R0985
DSC1000 ! X =   651.2000,   6057.800,    486.763,    0 !   !END!  GR_R0986
DSC1001 ! X =   651.3000,   6057.800,    485.000,    0 !   !END!  GR_R0987
DSC1002 ! X =   651.0000,   6057.900,    488.133,    0 !   !END!  GR_R0988
DSC1003 ! X =   651.1000,   6057.900,    488.000,    0 !   !END!  GR_R0989
DSC1004 ! X =   651.2000,   6057.900,    488.000,    0 !   !END!  GR_R0990
DSC1005 ! X =   651.3000,   6057.900,    487.644,    0 !   !END!  GR_R0991
DSC1006 ! X =   651.0000,   6058.000,    488.862,    0 !   !END!  GR_R0992
DSC1007 ! X =   651.1000,   6058.000,    487.701,    0 !   !END!  GR_R0993
DSC1008 ! X =   651.2000,   6058.000,    489.158,    0 !   !END!  GR_R0994
DSC1009 ! X =   651.3000,   6058.000,    496.461,    0 !   !END!  GR_R0995
DSC1010 ! X =   651.0000,   6058.100,    489.462,    0 !   !END!  GR_R0996
DSC1011 ! X =   651.1000,   6058.100,    487.000,    0 !   !END!  GR_R0997
DSC1012 ! X =   651.2000,   6058.100,    497.437,    0 !   !END!  GR_R0998
DSC1013 ! X =   651.3000,   6058.100,    503.785,    0 !   !END!  GR_R0999
DSC1014 ! X =   651.0000,   6058.200,    492.404,    0 !   !END!  GR_R1000
DSC1015 ! X =   651.1000,   6058.200,    496.833,    0 !   !END!  GR_R1001
DSC1016 ! X =   651.2000,   6058.200,    505.776,    0 !   !END!  GR_R1002
DSC1017 ! X =   651.3000,   6058.200,    506.000,    0 !   !END!  GR_R1003
DSC1018 ! X =   651.0000,   6058.300,    496.330,    0 !   !END!  GR_R1004
DSC1019 ! X =   651.1000,   6058.300,    502.000,    0 !   !END!  GR_R1005
DSC1020 ! X =   651.2000,   6058.300,    506.000,    0 !   !END!  GR_R1006
DSC1021 ! X =   651.3000,   6058.300,    506.000,    0 !   !END!  GR_R1007
DSC1022 ! X =   651.0000,   6058.400,    498.131,    0 !   !END!  GR_R1008
DSC1023 ! X =   651.1000,   6058.400,    503.000,    0 !   !END!  GR_R1009
DSC1024 ! X =   651.2000,   6058.400,    505.000,    0 !   !END!  GR_R1010
DSC1025 ! X =   651.3000,   6058.400,    504.891,    0 !   !END!  GR_R1011
DSC1026 ! X =   651.0000,   6058.500,    498.381,    0 !   !END!  GR_R1012
DSC1027 ! X =   651.1000,   6058.500,    503.000,    0 !   !END!  GR_R1013
DSC1028 ! X =   651.2000,   6058.500,    504.000,    0 !   !END!  GR_R1014
DSC1029 ! X =   651.3000,   6058.500,    503.000,    0 !   !END!  GR_R1015
DSC1030 ! X =   651.0000,   6058.600,    497.626,    0 !   !END!  GR_R1016
DSC1031 ! X =   651.1000,   6058.600,    503.010,    0 !   !END!  GR_R1017
DSC1032 ! X =   651.2000,   6058.600,    501.982,    0 !   !END!  GR_R1018
DSC1033 ! X =   651.3000,   6058.600,    501.000,    0 !   !END!  GR_R1019
DSC1034 ! X =   651.0000,   6058.700,    496.875,    0 !   !END!  GR_R1020
DSC1035 ! X =   651.1000,   6058.700,    503.000,    0 !   !END!  GR_R1021
DSC1036 ! X =   651.2000,   6058.700,    500.243,    0 !   !END!  GR_R1022
DSC1037 ! X =   651.3000,   6058.700,    503.032,    0 !   !END!  GR_R1023
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DSC1038 ! X =   651.0000,   6058.800,    497.038,    0 !   !END!  GR_R1024
DSC1039 ! X =   651.1000,   6058.800,    499.120,    0 !   !END!  GR_R1025
DSC1040 ! X =   651.2000,   6058.800,    503.632,    0 !   !END!  GR_R1026
DSC1041 ! X =   651.3000,   6058.800,    502.506,    0 !   !END!  GR_R1027
DSC1042 ! X =   651.0000,   6058.900,    503.088,    0 !   !END!  GR_R1028
DSC1043 ! X =   651.1000,   6058.900,    503.730,    0 !   !END!  GR_R1029
DSC1044 ! X =   651.2000,   6058.900,    501.051,    0 !   !END!  GR_R1030
DSC1045 ! X =   651.3000,   6058.900,    496.656,    0 !   !END!  GR_R1031
DSC1046 ! X =   651.4000,   6058.900,    493.573,    0 !   !END!  GR_R1032
DSC1047 ! X =   651.5000,   6058.900,    485.942,    0 !   !END!  GR_R1033
DSC1048 ! X =   651.6000,   6058.900,    484.627,    0 !   !END!  GR_R1034
DSC1049 ! X =   651.7000,   6058.900,    480.907,    0 !   !END!  GR_R1035
DSC1050 ! X =   651.8000,   6058.900,    478.920,    0 !   !END!  GR_R1036
DSC1051 ! X =   651.9000,   6058.900,    478.745,    0 !   !END!  GR_R1037
DSC1052 ! X =   652.0000,   6058.900,    475.293,    0 !   !END!  GR_R1038
DSC1053 ! X =   652.1000,   6058.900,    470.765,    0 !   !END!  GR_R1039
DSC1054 ! X =   652.2000,   6058.900,    465.000,    0 !   !END!  GR_R1040
DSC1055 ! X =   652.3000,   6058.900,    465.360,    0 !   !END!  GR_R1041
DSC1056 ! X =   652.4000,   6058.900,    469.659,    0 !   !END!  GR_R1042
DSC1057 ! X =   652.5000,   6058.900,    472.882,    0 !   !END!  GR_R1043
DSC1058 ! X =   652.6000,   6058.900,    473.000,    0 !   !END!  GR_R1044
DSC1059 ! X =   652.7000,   6058.900,    473.801,    0 !   !END!  GR_R1045
DSC1060 ! X =   652.8000,   6058.900,    474.370,    0 !   !END!  GR_R1046
DSC1061 ! X =   652.9000,   6058.900,    472.703,    0 !   !END!  GR_R1047
DSC1062 ! X =   653.0000,   6058.900,    465.618,    0 !   !END!  GR_R1048
DSC1063 ! X =   651.0000,   6059.000,    501.453,    0 !   !END!  GR_R1049
DSC1064 ! X =   651.1000,   6059.000,    499.597,    0 !   !END!  GR_R1050
DSC1065 ! X =   651.2000,   6059.000,    495.256,    0 !   !END!  GR_R1051
DSC1066 ! X =   651.3000,   6059.000,    489.956,    0 !   !END!  GR_R1052
DSC1067 ! X =   651.4000,   6059.000,    487.029,    0 !   !END!  GR_R1053
DSC1068 ! X =   651.5000,   6059.000,    483.037,    0 !   !END!  GR_R1054
DSC1069 ! X =   651.6000,   6059.000,    480.317,    0 !   !END!  GR_R1055
DSC1070 ! X =   651.7000,   6059.000,    478.160,    0 !   !END!  GR_R1056
DSC1071 ! X =   651.8000,   6059.000,    476.610,    0 !   !END!  GR_R1057
DSC1072 ! X =   651.9000,   6059.000,    477.000,    0 !   !END!  GR_R1058
DSC1073 ! X =   652.0000,   6059.000,    475.004,    0 !   !END!  GR_R1059
DSC1074 ! X =   652.1000,   6059.000,    465.051,    0 !   !END!  GR_R1060
DSC1075 ! X =   652.2000,   6059.000,    466.670,    0 !   !END!  GR_R1061
DSC1076 ! X =   652.3000,   6059.000,    468.000,    0 !   !END!  GR_R1062
DSC1077 ! X =   652.4000,   6059.000,    472.000,    0 !   !END!  GR_R1063
DSC1078 ! X =   652.5000,   6059.000,    472.000,    0 !   !END!  GR_R1064
DSC1079 ! X =   652.6000,   6059.000,    472.000,    0 !   !END!  GR_R1065
DSC1080 ! X =   652.7000,   6059.000,    472.910,    0 !   !END!  GR_R1066
DSC1081 ! X =   652.8000,   6059.000,    473.000,    0 !   !END!  GR_R1067
DSC1082 ! X =   652.9000,   6059.000,    472.141,    0 !   !END!  GR_R1068
DSC1083 ! X =   653.0000,   6059.000,    462.411,    0 !   !END!  GR_R1069
DSC1084 ! X =   651.0000,   6059.100,    497.147,    0 !   !END!  GR_R1070
DSC1085 ! X =   651.1000,   6059.100,    494.487,    0 !   !END!  GR_R1071
DSC1086 ! X =   651.2000,   6059.100,    489.545,    0 !   !END!  GR_R1072
DSC1087 ! X =   651.3000,   6059.100,    485.574,    0 !   !END!  GR_R1073
DSC1088 ! X =   651.4000,   6059.100,    483.718,    0 !   !END!  GR_R1074
DSC1089 ! X =   651.5000,   6059.100,    479.995,    0 !   !END!  GR_R1075
DSC1090 ! X =   651.6000,   6059.100,    477.011,    0 !   !END!  GR_R1076
DSC1091 ! X =   651.7000,   6059.100,    476.000,    0 !   !END!  GR_R1077
DSC1092 ! X =   651.8000,   6059.100,    474.535,    0 !   !END!  GR_R1078
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DSC1093 ! X =   651.9000,   6059.100,    474.443,    0 !   !END!  GR_R1079
DSC1094 ! X =   652.0000,   6059.100,    474.587,    0 !   !END!  GR_R1080
DSC1095 ! X =   652.1000,   6059.100,    465.000,    0 !   !END!  GR_R1081
DSC1096 ! X =   652.2000,   6059.100,    470.125,    0 !   !END!  GR_R1082
DSC1097 ! X =   652.3000,   6059.100,    469.991,    0 !   !END!  GR_R1083
DSC1098 ! X =   652.4000,   6059.100,    471.942,    0 !   !END!  GR_R1084
DSC1099 ! X =   652.5000,   6059.100,    472.000,    0 !   !END!  GR_R1085
DSC1100 ! X =   652.6000,   6059.100,    470.560,    0 !   !END!  GR_R1086
DSC1101 ! X =   652.7000,   6059.100,    470.697,    0 !   !END!  GR_R1087
DSC1102 ! X =   652.8000,   6059.100,    472.251,    0 !   !END!  GR_R1088
DSC1103 ! X =   652.9000,   6059.100,    470.998,    0 !   !END!  GR_R1089
DSC1104 ! X =   653.0000,   6059.100,    461.456,    0 !   !END!  GR_R1090
DSC1105 ! X =   651.0000,   6059.200,    492.723,    0 !   !END!  GR_R1091
DSC1106 ! X =   651.1000,   6059.200,    489.981,    0 !   !END!  GR_R1092
DSC1107 ! X =   651.2000,   6059.200,    486.002,    0 !   !END!  GR_R1093
DSC1108 ! X =   651.3000,   6059.200,    482.695,    0 !   !END!  GR_R1094
DSC1109 ! X =   651.4000,   6059.200,    480.408,    0 !   !END!  GR_R1095
DSC1110 ! X =   651.5000,   6059.200,    477.398,    0 !   !END!  GR_R1096
DSC1111 ! X =   651.6000,   6059.200,    474.196,    0 !   !END!  GR_R1097
DSC1112 ! X =   651.7000,   6059.200,    473.000,    0 !   !END!  GR_R1098
DSC1113 ! X =   651.8000,   6059.200,    469.971,    0 !   !END!  GR_R1099
DSC1114 ! X =   651.9000,   6059.200,    465.000,    0 !   !END!  GR_R1100
DSC1115 ! X =   652.0000,   6059.200,    465.000,    0 !   !END!  GR_R1101
DSC1116 ! X =   652.1000,   6059.200,    472.379,    0 !   !END!  GR_R1102
DSC1117 ! X =   652.2000,   6059.200,    472.818,    0 !   !END!  GR_R1103
DSC1118 ! X =   652.3000,   6059.200,    471.000,    0 !   !END!  GR_R1104
DSC1119 ! X =   652.4000,   6059.200,    471.000,    0 !   !END!  GR_R1105
DSC1120 ! X =   652.5000,   6059.200,    471.000,    0 !   !END!  GR_R1106
DSC1121 ! X =   652.6000,   6059.200,    469.000,    0 !   !END!  GR_R1107
DSC1122 ! X =   652.7000,   6059.200,    471.493,    0 !   !END!  GR_R1108
DSC1123 ! X =   652.8000,   6059.200,    473.000,    0 !   !END!  GR_R1109
DSC1124 ! X =   652.9000,   6059.200,    472.637,    0 !   !END!  GR_R1110
DSC1125 ! X =   653.0000,   6059.200,    461.000,    0 !   !END!  GR_R1111
DSC1126 ! X =   650.4000,   6055.800,    481.522,    0 !   !END!  GR_R1112
DSC1127 ! X =   650.6000,   6055.800,    467.632,    0 !   !END!  GR_R1113
DSC1128 ! X =   650.8000,   6055.800,    461.000,    0 !   !END!  GR_R1114
DSC1129 ! X =   651.0000,   6055.800,    461.000,    0 !   !END!  GR_R1115
DSC1130 ! X =   651.2000,   6055.800,    461.000,    0 !   !END!  GR_R1116
DSC1131 ! X =   651.4000,   6055.800,    461.000,    0 !   !END!  GR_R1117
DSC1132 ! X =   651.6000,   6055.800,    461.000,    0 !   !END!  GR_R1118
DSC1133 ! X =   651.8000,   6055.800,    461.000,    0 !   !END!  GR_R1119
DSC1134 ! X =   652.0000,   6055.800,    461.000,    0 !   !END!  GR_R1120
DSC1135 ! X =   652.2000,   6055.800,    472.018,    0 !   !END!  GR_R1121
DSC1136 ! X =   652.4000,   6055.800,    466.123,    0 !   !END!  GR_R1122
DSC1137 ! X =   652.6000,   6055.800,    461.618,    0 !   !END!  GR_R1123
DSC1138 ! X =   652.8000,   6055.800,    461.000,    0 !   !END!  GR_R1124
DSC1139 ! X =   653.0000,   6055.800,    461.000,    0 !   !END!  GR_R1125
DSC1140 ! X =   653.2000,   6055.800,    461.000,    0 !   !END!  GR_R1126
DSC1141 ! X =   653.4000,   6055.800,    461.000,    0 !   !END!  GR_R1127
DSC1142 ! X =   653.6000,   6055.800,    462.000,    0 !   !END!  GR_R1128
DSC1143 ! X =   653.8000,   6055.800,    464.000,    0 !   !END!  GR_R1129
DSC1144 ! X =   654.0000,   6055.800,    468.671,    0 !   !END!  GR_R1130
DSC1145 ! X =   654.2000,   6055.800,    471.978,    0 !   !END!  GR_R1131
DSC1146 ! X =   654.4000,   6055.800,    468.576,    0 !   !END!  GR_R1132
DSC1147 ! X =   650.4000,   6056.000,    469.631,    0 !   !END!  GR_R1133
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DSC1148 ! X =   650.6000,   6056.000,    461.000,    0 !   !END!  GR_R1134
DSC1149 ! X =   650.8000,   6056.000,    461.520,    0 !   !END!  GR_R1135
DSC1150 ! X =   651.0000,   6056.000,    461.000,    0 !   !END!  GR_R1136
DSC1151 ! X =   651.2000,   6056.000,    461.000,    0 !   !END!  GR_R1137
DSC1152 ! X =   651.4000,   6056.000,    461.000,    0 !   !END!  GR_R1138
DSC1153 ! X =   651.6000,   6056.000,    461.000,    0 !   !END!  GR_R1139
DSC1154 ! X =   651.8000,   6056.000,    461.000,    0 !   !END!  GR_R1140
DSC1155 ! X =   652.0000,   6056.000,    464.922,    0 !   !END!  GR_R1141
DSC1156 ! X =   652.2000,   6056.000,    461.000,    0 !   !END!  GR_R1142
DSC1157 ! X =   652.4000,   6056.000,    461.000,    0 !   !END!  GR_R1143
DSC1158 ! X =   652.6000,   6056.000,    461.000,    0 !   !END!  GR_R1144
DSC1159 ! X =   652.8000,   6056.000,    461.000,    0 !   !END!  GR_R1145
DSC1160 ! X =   653.0000,   6056.000,    461.000,    0 !   !END!  GR_R1146
DSC1161 ! X =   653.2000,   6056.000,    464.000,    0 !   !END!  GR_R1147
DSC1162 ! X =   653.4000,   6056.000,    464.770,    0 !   !END!  GR_R1148
DSC1163 ! X =   653.6000,   6056.000,    465.000,    0 !   !END!  GR_R1149
DSC1164 ! X =   653.8000,   6056.000,    465.197,    0 !   !END!  GR_R1150
DSC1165 ! X =   654.0000,   6056.000,    472.047,    0 !   !END!  GR_R1151
DSC1166 ! X =   654.2000,   6056.000,    472.000,    0 !   !END!  GR_R1152
DSC1167 ! X =   654.4000,   6056.000,    466.000,    0 !   !END!  GR_R1153
DSC1168 ! X =   650.4000,   6056.200,    461.000,    0 !   !END!  GR_R1154
DSC1169 ! X =   650.6000,   6056.200,    461.000,    0 !   !END!  GR_R1155
DSC1170 ! X =   650.8000,   6056.200,    475.026,    0 !   !END!  GR_R1156
DSC1171 ! X =   651.0000,   6056.200,    461.000,    0 !   !END!  GR_R1157
DSC1172 ! X =   651.2000,   6056.200,    461.000,    0 !   !END!  GR_R1158
DSC1173 ! X =   651.4000,   6056.200,    461.000,    0 !   !END!  GR_R1159
DSC1174 ! X =   651.6000,   6056.200,    461.000,    0 !   !END!  GR_R1160
DSC1175 ! X =   651.8000,   6056.200,    461.000,    0 !   !END!  GR_R1161
DSC1176 ! X =   652.0000,   6056.200,    461.000,    0 !   !END!  GR_R1162
DSC1177 ! X =   652.2000,   6056.200,    461.000,    0 !   !END!  GR_R1163
DSC1178 ! X =   652.4000,   6056.200,    461.000,    0 !   !END!  GR_R1164
DSC1179 ! X =   652.6000,   6056.200,    461.000,    0 !   !END!  GR_R1165
DSC1180 ! X =   652.8000,   6056.200,    461.211,    0 !   !END!  GR_R1166
DSC1181 ! X =   653.0000,   6056.200,    467.231,    0 !   !END!  GR_R1167
DSC1182 ! X =   653.2000,   6056.200,    468.000,    0 !   !END!  GR_R1168
DSC1183 ! X =   653.4000,   6056.200,    469.386,    0 !   !END!  GR_R1169
DSC1184 ! X =   653.6000,   6056.200,    468.000,    0 !   !END!  GR_R1170
DSC1185 ! X =   653.8000,   6056.200,    464.137,    0 !   !END!  GR_R1171
DSC1186 ! X =   654.0000,   6056.200,    467.931,    0 !   !END!  GR_R1172
DSC1187 ! X =   654.2000,   6056.200,    468.103,    0 !   !END!  GR_R1173
DSC1188 ! X =   654.4000,   6056.200,    466.053,    0 !   !END!  GR_R1174
DSC1189 ! X =   650.4000,   6056.400,    462.568,    0 !   !END!  GR_R1175
DSC1190 ! X =   650.6000,   6056.400,    473.514,    0 !   !END!  GR_R1176
DSC1191 ! X =   650.8000,   6056.400,    476.157,    0 !   !END!  GR_R1177
DSC1192 ! X =   651.0000,   6056.400,    461.000,    0 !   !END!  GR_R1178
DSC1193 ! X =   651.2000,   6056.400,    461.000,    0 !   !END!  GR_R1179
DSC1194 ! X =   651.4000,   6056.400,    461.000,    0 !   !END!  GR_R1180
DSC1195 ! X =   651.6000,   6056.400,    461.000,    0 !   !END!  GR_R1181
DSC1196 ! X =   651.8000,   6056.400,    461.000,    0 !   !END!  GR_R1182
DSC1197 ! X =   652.0000,   6056.400,    461.000,    0 !   !END!  GR_R1183
DSC1198 ! X =   652.2000,   6056.400,    461.000,    0 !   !END!  GR_R1184
DSC1199 ! X =   652.4000,   6056.400,    461.000,    0 !   !END!  GR_R1185
DSC1200 ! X =   652.6000,   6056.400,    461.000,    0 !   !END!  GR_R1186
DSC1201 ! X =   652.8000,   6056.400,    474.880,    0 !   !END!  GR_R1187
DSC1202 ! X =   653.0000,   6056.400,    474.000,    0 !   !END!  GR_R1188
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DSC1203 ! X =   653.2000,   6056.400,    472.000,    0 !   !END!  GR_R1189
DSC1204 ! X =   653.4000,   6056.400,    473.000,    0 !   !END!  GR_R1190
DSC1205 ! X =   653.6000,   6056.400,    467.656,    0 !   !END!  GR_R1191
DSC1206 ! X =   653.8000,   6056.400,    462.000,    0 !   !END!  GR_R1192
DSC1207 ! X =   654.0000,   6056.400,    461.939,    0 !   !END!  GR_R1193
DSC1208 ! X =   654.2000,   6056.400,    461.000,    0 !   !END!  GR_R1194
DSC1209 ! X =   654.4000,   6056.400,    463.000,    0 !   !END!  GR_R1195
DSC1210 ! X =   650.4000,   6056.600,    477.965,    0 !   !END!  GR_R1196
DSC1211 ! X =   650.6000,   6056.600,    475.326,    0 !   !END!  GR_R1197
DSC1212 ! X =   650.8000,   6056.600,    461.460,    0 !   !END!  GR_R1198
DSC1213 ! X =   651.0000,   6056.600,    461.000,    0 !   !END!  GR_R1199
DSC1214 ! X =   651.2000,   6056.600,    471.443,    0 !   !END!  GR_R1200
DSC1215 ! X =   651.4000,   6056.600,    462.287,    0 !   !END!  GR_R1201
DSC1216 ! X =   651.6000,   6056.600,    461.000,    0 !   !END!  GR_R1202
DSC1217 ! X =   651.8000,   6056.600,    461.000,    0 !   !END!  GR_R1203
DSC1218 ! X =   652.0000,   6056.600,    461.000,    0 !   !END!  GR_R1204
DSC1219 ! X =   652.2000,   6056.600,    474.806,    0 !   !END!  GR_R1205
DSC1220 ! X =   652.4000,   6056.600,    472.389,    0 !   !END!  GR_R1206
DSC1221 ! X =   652.6000,   6056.600,    474.136,    0 !   !END!  GR_R1207
DSC1222 ! X =   652.8000,   6056.600,    478.000,    0 !   !END!  GR_R1208
DSC1223 ! X =   653.0000,   6056.600,    477.000,    0 !   !END!  GR_R1209
DSC1224 ! X =   653.2000,   6056.600,    474.920,    0 !   !END!  GR_R1210
DSC1225 ! X =   653.4000,   6056.600,    472.627,    0 !   !END!  GR_R1211
DSC1226 ! X =   653.6000,   6056.600,    468.436,    0 !   !END!  GR_R1212
DSC1227 ! X =   653.8000,   6056.600,    461.000,    0 !   !END!  GR_R1213
DSC1228 ! X =   654.0000,   6056.600,    461.000,    0 !   !END!  GR_R1214
DSC1229 ! X =   654.2000,   6056.600,    461.000,    0 !   !END!  GR_R1215
DSC1230 ! X =   654.4000,   6056.600,    461.000,    0 !   !END!  GR_R1216
DSC1231 ! X =   650.4000,   6056.800,    473.077,    0 !   !END!  GR_R1217
DSC1232 ! X =   650.6000,   6056.800,    461.000,    0 !   !END!  GR_R1218
DSC1233 ! X =   650.8000,   6056.800,    463.861,    0 !   !END!  GR_R1219
DSC1234 ! X =   651.0000,   6056.800,    474.769,    0 !   !END!  GR_R1220
DSC1235 ! X =   651.2000,   6056.800,    467.538,    0 !   !END!  GR_R1221
DSC1236 ! X =   653.6000,   6056.800,    469.648,    0 !   !END!  GR_R1222
DSC1237 ! X =   653.8000,   6056.800,    463.662,    0 !   !END!  GR_R1223
DSC1238 ! X =   654.0000,   6056.800,    461.416,    0 !   !END!  GR_R1224
DSC1239 ! X =   654.2000,   6056.800,    461.000,    0 !   !END!  GR_R1225
DSC1240 ! X =   654.4000,   6056.800,    461.000,    0 !   !END!  GR_R1226
DSC1241 ! X =   650.4000,   6057.000,    466.469,    0 !   !END!  GR_R1227
DSC1242 ! X =   650.6000,   6057.000,    487.595,    0 !   !END!  GR_R1228
DSC1243 ! X =   650.8000,   6057.000,    488.075,    0 !   !END!  GR_R1229
DSC1244 ! X =   651.0000,   6057.000,    475.990,    0 !   !END!  GR_R1230
DSC1245 ! X =   651.2000,   6057.000,    463.085,    0 !   !END!  GR_R1231
DSC1246 ! X =   653.6000,   6057.000,    470.576,    0 !   !END!  GR_R1232
DSC1247 ! X =   653.8000,   6057.000,    469.486,    0 !   !END!  GR_R1233
DSC1248 ! X =   654.0000,   6057.000,    462.000,    0 !   !END!  GR_R1234
DSC1249 ! X =   654.2000,   6057.000,    461.000,    0 !   !END!  GR_R1235
DSC1250 ! X =   654.4000,   6057.000,    461.000,    0 !   !END!  GR_R1236
DSC1251 ! X =   650.4000,   6057.200,    498.221,    0 !   !END!  GR_R1237
DSC1252 ! X =   650.6000,   6057.200,    503.566,    0 !   !END!  GR_R1238
DSC1253 ! X =   650.8000,   6057.200,    486.954,    0 !   !END!  GR_R1239
DSC1254 ! X =   653.6000,   6057.200,    473.000,    0 !   !END!  GR_R1240
DSC1255 ! X =   653.8000,   6057.200,    469.075,    0 !   !END!  GR_R1241
DSC1256 ! X =   654.0000,   6057.200,    461.000,    0 !   !END!  GR_R1242
DSC1257 ! X =   654.2000,   6057.200,    461.000,    0 !   !END!  GR_R1243
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DSC1258 ! X =   654.4000,   6057.200,    461.000,    0 !   !END!  GR_R1244
DSC1259 ! X =   650.4000,   6057.400,    507.415,    0 !   !END!  GR_R1245
DSC1260 ! X =   650.6000,   6057.400,    495.915,    0 !   !END!  GR_R1246
DSC1261 ! X =   650.8000,   6057.400,    486.342,    0 !   !END!  GR_R1247
DSC1262 ! X =   653.6000,   6057.400,    472.000,    0 !   !END!  GR_R1248
DSC1263 ! X =   653.8000,   6057.400,    463.620,    0 !   !END!  GR_R1249
DSC1264 ! X =   654.0000,   6057.400,    461.000,    0 !   !END!  GR_R1250
DSC1265 ! X =   654.2000,   6057.400,    461.000,    0 !   !END!  GR_R1251
DSC1266 ! X =   654.4000,   6057.400,    461.000,    0 !   !END!  GR_R1252
DSC1267 ! X =   650.4000,   6057.600,    505.443,    0 !   !END!  GR_R1253
DSC1268 ! X =   650.6000,   6057.600,    488.800,    0 !   !END!  GR_R1254
DSC1269 ! X =   650.8000,   6057.600,    479.712,    0 !   !END!  GR_R1255
DSC1270 ! X =   653.6000,   6057.600,    468.194,    0 !   !END!  GR_R1256
DSC1271 ! X =   653.8000,   6057.600,    461.000,    0 !   !END!  GR_R1257
DSC1272 ! X =   654.0000,   6057.600,    461.000,    0 !   !END!  GR_R1258
DSC1273 ! X =   654.2000,   6057.600,    461.000,    0 !   !END!  GR_R1259
DSC1274 ! X =   654.4000,   6057.600,    461.000,    0 !   !END!  GR_R1260
DSC1275 ! X =   650.4000,   6057.800,    494.534,    0 !   !END!  GR_R1261
DSC1276 ! X =   650.6000,   6057.800,    483.050,    0 !   !END!  GR_R1262
DSC1277 ! X =   650.8000,   6057.800,    480.110,    0 !   !END!  GR_R1263
DSC1278 ! X =   653.6000,   6057.800,    461.000,    0 !   !END!  GR_R1264
DSC1279 ! X =   653.8000,   6057.800,    461.000,    0 !   !END!  GR_R1265
DSC1280 ! X =   654.0000,   6057.800,    461.000,    0 !   !END!  GR_R1266
DSC1281 ! X =   654.2000,   6057.800,    461.000,    0 !   !END!  GR_R1267
DSC1282 ! X =   654.4000,   6057.800,    467.170,    0 !   !END!  GR_R1268
DSC1283 ! X =   650.4000,   6058.000,    483.698,    0 !   !END!  GR_R1269
DSC1284 ! X =   650.6000,   6058.000,    483.019,    0 !   !END!  GR_R1270
DSC1285 ! X =   650.8000,   6058.000,    487.000,    0 !   !END!  GR_R1271
DSC1286 ! X =   653.6000,   6058.000,    461.000,    0 !   !END!  GR_R1272
DSC1287 ! X =   653.8000,   6058.000,    461.000,    0 !   !END!  GR_R1273
DSC1288 ! X =   654.0000,   6058.000,    461.000,    0 !   !END!  GR_R1274
DSC1289 ! X =   654.2000,   6058.000,    466.415,    0 !   !END!  GR_R1275
DSC1290 ! X =   654.4000,   6058.000,    488.094,    0 !   !END!  GR_R1276
DSC1291 ! X =   650.4000,   6058.200,    485.923,    0 !   !END!  GR_R1277
DSC1292 ! X =   650.6000,   6058.200,    487.000,    0 !   !END!  GR_R1278
DSC1293 ! X =   650.8000,   6058.200,    490.000,    0 !   !END!  GR_R1279
DSC1294 ! X =   653.6000,   6058.200,    461.000,    0 !   !END!  GR_R1280
DSC1295 ! X =   653.8000,   6058.200,    461.000,    0 !   !END!  GR_R1281
DSC1296 ! X =   654.0000,   6058.200,    461.000,    0 !   !END!  GR_R1282
DSC1297 ! X =   654.2000,   6058.200,    492.890,    0 !   !END!  GR_R1283
DSC1298 ! X =   654.4000,   6058.200,    480.613,    0 !   !END!  GR_R1284
DSC1299 ! X =   650.4000,   6058.400,    488.000,    0 !   !END!  GR_R1285
DSC1300 ! X =   650.6000,   6058.400,    490.256,    0 !   !END!  GR_R1286
DSC1301 ! X =   650.8000,   6058.400,    491.258,    0 !   !END!  GR_R1287
DSC1302 ! X =   653.6000,   6058.400,    461.000,    0 !   !END!  GR_R1288
DSC1303 ! X =   653.8000,   6058.400,    461.000,    0 !   !END!  GR_R1289
DSC1304 ! X =   654.0000,   6058.400,    483.626,    0 !   !END!  GR_R1290
DSC1305 ! X =   654.2000,   6058.400,    481.808,    0 !   !END!  GR_R1291
DSC1306 ! X =   654.4000,   6058.400,    461.000,    0 !   !END!  GR_R1292
DSC1307 ! X =   650.4000,   6058.600,    491.194,    0 !   !END!  GR_R1293
DSC1308 ! X =   650.6000,   6058.600,    494.877,    0 !   !END!  GR_R1294
DSC1309 ! X =   650.8000,   6058.600,    495.000,    0 !   !END!  GR_R1295
DSC1310 ! X =   653.6000,   6058.600,    461.000,    0 !   !END!  GR_R1296
DSC1311 ! X =   653.8000,   6058.600,    469.752,    0 !   !END!  GR_R1297
DSC1312 ! X =   654.0000,   6058.600,    471.066,    0 !   !END!  GR_R1298
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DSC1313 ! X =   654.2000,   6058.600,    461.000,    0 !   !END!  GR_R1299
DSC1314 ! X =   654.4000,   6058.600,    461.000,    0 !   !END!  GR_R1300
DSC1315 ! X =   650.4000,   6058.800,    499.786,    0 !   !END!  GR_R1301
DSC1316 ! X =   650.6000,   6058.800,    498.000,    0 !   !END!  GR_R1302
DSC1317 ! X =   650.8000,   6058.800,    498.000,    0 !   !END!  GR_R1303
DSC1318 ! X =   653.6000,   6058.800,    461.000,    0 !   !END!  GR_R1304
DSC1319 ! X =   653.8000,   6058.800,    466.169,    0 !   !END!  GR_R1305
DSC1320 ! X =   654.0000,   6058.800,    461.000,    0 !   !END!  GR_R1306
DSC1321 ! X =   654.2000,   6058.800,    461.000,    0 !   !END!  GR_R1307
DSC1322 ! X =   654.4000,   6058.800,    461.000,    0 !   !END!  GR_R1308
DSC1323 ! X =   650.4000,   6059.000,    503.000,    0 !   !END!  GR_R1309
DSC1324 ! X =   650.6000,   6059.000,    500.000,    0 !   !END!  GR_R1310
DSC1325 ! X =   650.8000,   6059.000,    497.000,    0 !   !END!  GR_R1311
DSC1326 ! X =   653.2000,   6059.000,    461.000,    0 !   !END!  GR_R1312
DSC1327 ! X =   653.4000,   6059.000,    461.000,    0 !   !END!  GR_R1313
DSC1328 ! X =   653.6000,   6059.000,    461.047,    0 !   !END!  GR_R1314
DSC1329 ! X =   653.8000,   6059.000,    461.000,    0 !   !END!  GR_R1315
DSC1330 ! X =   654.0000,   6059.000,    461.000,    0 !   !END!  GR_R1316
DSC1331 ! X =   654.2000,   6059.000,    461.000,    0 !   !END!  GR_R1317
DSC1332 ! X =   654.4000,   6059.000,    461.000,    0 !   !END!  GR_R1318
DSC1333 ! X =   650.4000,   6059.200,    503.000,    0 !   !END!  GR_R1319
DSC1334 ! X =   650.6000,   6059.200,    499.622,    0 !   !END!  GR_R1320
DSC1335 ! X =   650.8000,   6059.200,    492.415,    0 !   !END!  GR_R1321
DSC1336 ! X =   653.2000,   6059.200,    461.000,    0 !   !END!  GR_R1322
DSC1337 ! X =   653.4000,   6059.200,    461.000,    0 !   !END!  GR_R1323
DSC1338 ! X =   653.6000,   6059.200,    461.000,    0 !   !END!  GR_R1324
DSC1339 ! X =   653.8000,   6059.200,    461.000,    0 !   !END!  GR_R1325
DSC1340 ! X =   654.0000,   6059.200,    461.000,    0 !   !END!  GR_R1326
DSC1341 ! X =   654.2000,   6059.200,    461.000,    0 !   !END!  GR_R1327
DSC1342 ! X =   654.4000,   6059.200,    469.096,    0 !   !END!  GR_R1328
DSC1343 ! X =   650.4000,   6059.400,    503.000,    0 !   !END!  GR_R1329
DSC1344 ! X =   650.6000,   6059.400,    500.768,    0 !   !END!  GR_R1330
DSC1345 ! X =   650.8000,   6059.400,    487.258,    0 !   !END!  GR_R1331
DSC1346 ! X =   651.0000,   6059.400,    484.608,    0 !   !END!  GR_R1332
DSC1347 ! X =   651.2000,   6059.400,    479.504,    0 !   !END!  GR_R1333
DSC1348 ! X =   651.4000,   6059.400,    474.516,    0 !   !END!  GR_R1334
DSC1349 ! X =   651.6000,   6059.400,    470.143,    0 !   !END!  GR_R1335
DSC1350 ! X =   651.8000,   6059.400,    467.409,    0 !   !END!  GR_R1336
DSC1351 ! X =   652.0000,   6059.400,    478.299,    0 !   !END!  GR_R1337
DSC1352 ! X =   652.2000,   6059.400,    476.010,    0 !   !END!  GR_R1338
DSC1353 ! X =   652.4000,   6059.400,    468.472,    0 !   !END!  GR_R1339
DSC1354 ! X =   652.6000,   6059.400,    465.000,    0 !   !END!  GR_R1340
DSC1355 ! X =   652.8000,   6059.400,    467.922,    0 !   !END!  GR_R1341
DSC1356 ! X =   653.0000,   6059.400,    461.000,    0 !   !END!  GR_R1342
DSC1357 ! X =   653.2000,   6059.400,    461.000,    0 !   !END!  GR_R1343
DSC1358 ! X =   653.4000,   6059.400,    461.000,    0 !   !END!  GR_R1344
DSC1359 ! X =   653.6000,   6059.400,    461.000,    0 !   !END!  GR_R1345
DSC1360 ! X =   653.8000,   6059.400,    461.000,    0 !   !END!  GR_R1346
DSC1361 ! X =   654.0000,   6059.400,    461.000,    0 !   !END!  GR_R1347
DSC1362 ! X =   654.2000,   6059.400,    461.000,    0 !   !END!  GR_R1348
DSC1363 ! X =   654.4000,   6059.400,    472.097,    0 !   !END!  GR_R1349
DSC1364 ! X =   650.4000,   6059.600,    503.133,    0 !   !END!  GR_R1350
DSC1365 ! X =   650.6000,   6059.600,    499.634,    0 !   !END!  GR_R1351
DSC1366 ! X =   650.8000,   6059.600,    488.000,    0 !   !END!  GR_R1352
DSC1367 ! X =   651.0000,   6059.600,    477.957,    0 !   !END!  GR_R1353
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DSC1368 ! X =   651.2000,   6059.600,    473.856,    0 !   !END!  GR_R1354
DSC1369 ! X =   651.4000,   6059.600,    470.802,    0 !   !END!  GR_R1355
DSC1370 ! X =   651.6000,   6059.600,    477.541,    0 !   !END!  GR_R1356
DSC1371 ! X =   651.8000,   6059.600,    483.342,    0 !   !END!  GR_R1357
DSC1372 ! X =   652.0000,   6059.600,    485.965,    0 !   !END!  GR_R1358
DSC1373 ! X =   652.2000,   6059.600,    478.000,    0 !   !END!  GR_R1359
DSC1374 ! X =   652.4000,   6059.600,    465.000,    0 !   !END!  GR_R1360
DSC1375 ! X =   652.6000,   6059.600,    465.000,    0 !   !END!  GR_R1361
DSC1376 ! X =   652.8000,   6059.600,    463.252,    0 !   !END!  GR_R1362
DSC1377 ! X =   653.0000,   6059.600,    461.000,    0 !   !END!  GR_R1363
DSC1378 ! X =   653.2000,   6059.600,    461.000,    0 !   !END!  GR_R1364
DSC1379 ! X =   653.4000,   6059.600,    461.000,    0 !   !END!  GR_R1365
DSC1380 ! X =   653.6000,   6059.600,    461.000,    0 !   !END!  GR_R1366
DSC1381 ! X =   653.8000,   6059.600,    461.000,    0 !   !END!  GR_R1367
DSC1382 ! X =   654.0000,   6059.600,    461.000,    0 !   !END!  GR_R1368
DSC1383 ! X =   654.2000,   6059.600,    461.000,    0 !   !END!  GR_R1369
DSC1384 ! X =   654.4000,   6059.600,    486.806,    0 !   !END!  GR_R1370
DSC1385 ! X =   650.4000,   6059.800,    498.000,    0 !   !END!  GR_R1371
DSC1386 ! X =   650.6000,   6059.800,    493.538,    0 !   !END!  GR_R1372
DSC1387 ! X =   650.8000,   6059.800,    481.642,    0 !   !END!  GR_R1373
DSC1388 ! X =   651.0000,   6059.800,    473.985,    0 !   !END!  GR_R1374
DSC1389 ! X =   651.2000,   6059.800,    470.738,    0 !   !END!  GR_R1375
DSC1390 ! X =   651.4000,   6059.800,    481.450,    0 !   !END!  GR_R1376
DSC1391 ! X =   651.6000,   6059.800,    488.876,    0 !   !END!  GR_R1377
DSC1392 ! X =   651.8000,   6059.800,    497.747,    0 !   !END!  GR_R1378
DSC1393 ! X =   652.0000,   6059.800,    486.461,    0 !   !END!  GR_R1379
DSC1394 ! X =   652.2000,   6059.800,    471.466,    0 !   !END!  GR_R1380
DSC1395 ! X =   652.4000,   6059.800,    465.000,    0 !   !END!  GR_R1381
DSC1396 ! X =   652.6000,   6059.800,    463.000,    0 !   !END!  GR_R1382
DSC1397 ! X =   652.8000,   6059.800,    461.000,    0 !   !END!  GR_R1383
DSC1398 ! X =   653.0000,   6059.800,    461.000,    0 !   !END!  GR_R1384
DSC1399 ! X =   653.2000,   6059.800,    461.000,    0 !   !END!  GR_R1385
DSC1400 ! X =   653.4000,   6059.800,    461.000,    0 !   !END!  GR_R1386
DSC1401 ! X =   653.6000,   6059.800,    461.000,    0 !   !END!  GR_R1387
DSC1402 ! X =   653.8000,   6059.800,    461.000,    0 !   !END!  GR_R1388
DSC1403 ! X =   654.0000,   6059.800,    461.000,    0 !   !END!  GR_R1389
DSC1404 ! X =   654.2000,   6059.800,    463.381,    0 !   !END!  GR_R1390
DSC1405 ! X =   654.4000,   6059.800,    502.918,    0 !   !END!  GR_R1391
DSC1406 ! X =   650.0000,   6056.200,    486.142,    0 !   !END!  GR_R1392
DSC1407 ! X =   650.2000,   6056.200,    471.742,    0 !   !END!  GR_R1393
DSC1408 ! X =   650.0000,   6056.400,    475.088,    0 !   !END!  GR_R1394
DSC1409 ! X =   650.2000,   6056.400,    464.632,    0 !   !END!  GR_R1395
DSC1410 ! X =   650.0000,   6056.600,    465.094,    0 !   !END!  GR_R1396
DSC1411 ! X =   650.2000,   6056.600,    461.466,    0 !   !END!  GR_R1397
DSC1412 ! X =   650.0000,   6056.800,    475.132,    0 !   !END!  GR_R1398
DSC1413 ! X =   650.2000,   6056.800,    476.000,    0 !   !END!  GR_R1399
DSC1414 ! X =   650.0000,   6057.000,    479.774,    0 !   !END!  GR_R1400
DSC1415 ! X =   650.2000,   6057.000,    478.269,    0 !   !END!  GR_R1401
DSC1416 ! X =   650.0000,   6057.200,    485.395,    0 !   !END!  GR_R1402
DSC1417 ! X =   650.2000,   6057.200,    488.819,    0 !   !END!  GR_R1403
DSC1418 ! X =   650.0000,   6057.400,    499.378,    0 !   !END!  GR_R1404
DSC1419 ! X =   650.2000,   6057.400,    514.640,    0 !   !END!  GR_R1405
DSC1420 ! X =   650.0000,   6057.600,    519.359,    0 !   !END!  GR_R1406
DSC1421 ! X =   650.2000,   6057.600,    518.198,    0 !   !END!  GR_R1407
DSC1422 ! X =   650.0000,   6057.800,    521.000,    0 !   !END!  GR_R1408
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DSC1423 ! X =   650.2000,   6057.800,    518.810,    0 !   !END!  GR_R1409
DSC1424 ! X =   650.0000,   6058.000,    521.000,    0 !   !END!  GR_R1410
DSC1425 ! X =   650.2000,   6058.000,    505.819,    0 !   !END!  GR_R1411
DSC1426 ! X =   650.0000,   6058.200,    514.041,    0 !   !END!  GR_R1412
DSC1427 ! X =   650.2000,   6058.200,    491.000,    0 !   !END!  GR_R1413
DSC1428 ! X =   650.0000,   6058.400,    506.907,    0 !   !END!  GR_R1414
DSC1429 ! X =   650.2000,   6058.400,    490.494,    0 !   !END!  GR_R1415
DSC1430 ! X =   650.0000,   6058.600,    500.264,    0 !   !END!  GR_R1416
DSC1431 ! X =   650.2000,   6058.600,    493.842,    0 !   !END!  GR_R1417
DSC1432 ! X =   650.0000,   6058.800,    495.719,    0 !   !END!  GR_R1418
DSC1433 ! X =   650.2000,   6058.800,    491.322,    0 !   !END!  GR_R1419
DSC1434 ! X =   650.0000,   6059.000,    495.254,    0 !   !END!  GR_R1420
DSC1435 ! X =   650.2000,   6059.000,    503.147,    0 !   !END!  GR_R1421
DSC1436 ! X =   650.0000,   6059.200,    504.370,    0 !   !END!  GR_R1422
DSC1437 ! X =   650.2000,   6059.200,    503.111,    0 !   !END!  GR_R1423
DSC1438 ! X =   650.0000,   6059.400,    516.016,    0 !   !END!  GR_R1424
DSC1439 ! X =   650.2000,   6059.400,    506.869,    0 !   !END!  GR_R1425
DSC1440 ! X =   650.0000,   6059.600,    515.039,    0 !   !END!  GR_R1426
DSC1441 ! X =   650.2000,   6059.600,    507.374,    0 !   !END!  GR_R1427
DSC1442 ! X =   650.0000,   6059.800,    513.405,    0 !   !END!  GR_R1428
DSC1443 ! X =   650.2000,   6059.800,    505.000,    0 !   !END!  GR_R1429
DSC1444 ! X =   650.0000,   6060.000,    505.923,    0 !   !END!  GR_R1430
DSC1445 ! X =   650.2000,   6060.000,    503.000,    0 !   !END!  GR_R1431
DSC1446 ! X =   650.4000,   6060.000,    496.515,    0 !   !END!  GR_R1432
DSC1447 ! X =   650.6000,   6060.000,    483.067,    0 !   !END!  GR_R1433
DSC1448 ! X =   650.8000,   6060.000,    468.000,    0 !   !END!  GR_R1434
DSC1449 ! X =   651.0000,   6060.000,    473.973,    0 !   !END!  GR_R1435
DSC1450 ! X =   651.2000,   6060.000,    483.325,    0 !   !END!  GR_R1436
DSC1451 ! X =   651.4000,   6060.000,    492.982,    0 !   !END!  GR_R1437
DSC1452 ! X =   651.6000,   6060.000,    503.000,    0 !   !END!  GR_R1438
DSC1453 ! X =   651.8000,   6060.000,    498.130,    0 !   !END!  GR_R1439
DSC1454 ! X =   652.0000,   6060.000,    476.456,    0 !   !END!  GR_R1440
DSC1455 ! X =   652.2000,   6060.000,    465.914,    0 !   !END!  GR_R1441
DSC1456 ! X =   652.4000,   6060.000,    463.879,    0 !   !END!  GR_R1442
DSC1457 ! X =   652.6000,   6060.000,    461.000,    0 !   !END!  GR_R1443
DSC1458 ! X =   652.8000,   6060.000,    461.000,    0 !   !END!  GR_R1444
DSC1459 ! X =   653.0000,   6060.000,    461.000,    0 !   !END!  GR_R1445
DSC1460 ! X =   653.2000,   6060.000,    461.000,    0 !   !END!  GR_R1446
DSC1461 ! X =   653.4000,   6060.000,    461.000,    0 !   !END!  GR_R1447
DSC1462 ! X =   653.6000,   6060.000,    461.000,    0 !   !END!  GR_R1448
DSC1463 ! X =   653.8000,   6060.000,    461.000,    0 !   !END!  GR_R1449
DSC1464 ! X =   654.0000,   6060.000,    461.000,    0 !   !END!  GR_R1450
DSC1465 ! X =   650.0000,   6060.200,    497.302,    0 !   !END!  GR_R1451
DSC1466 ! X =   650.2000,   6060.200,    502.171,    0 !   !END!  GR_R1452
DSC1467 ! X =   650.4000,   6060.200,    488.894,    0 !   !END!  GR_R1453
DSC1468 ! X =   650.6000,   6060.200,    472.013,    0 !   !END!  GR_R1454
DSC1469 ! X =   650.8000,   6060.200,    474.550,    0 !   !END!  GR_R1455
DSC1470 ! X =   651.0000,   6060.200,    489.108,    0 !   !END!  GR_R1456
DSC1471 ! X =   651.2000,   6060.200,    492.880,    0 !   !END!  GR_R1457
DSC1472 ! X =   651.4000,   6060.200,    502.541,    0 !   !END!  GR_R1458
DSC1473 ! X =   651.6000,   6060.200,    499.474,    0 !   !END!  GR_R1459
DSC1474 ! X =   651.8000,   6060.200,    492.803,    0 !   !END!  GR_R1460
DSC1475 ! X =   652.0000,   6060.200,    476.918,    0 !   !END!  GR_R1461
DSC1476 ! X =   652.2000,   6060.200,    467.178,    0 !   !END!  GR_R1462
DSC1477 ! X =   652.4000,   6060.200,    461.000,    0 !   !END!  GR_R1463
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DSC1478 ! X =   652.6000,   6060.200,    461.000,    0 !   !END!  GR_R1464
DSC1479 ! X =   652.8000,   6060.200,    461.000,    0 !   !END!  GR_R1465
DSC1480 ! X =   653.0000,   6060.200,    461.000,    0 !   !END!  GR_R1466
DSC1481 ! X =   653.2000,   6060.200,    462.000,    0 !   !END!  GR_R1467
DSC1482 ! X =   653.4000,   6060.200,    461.000,    0 !   !END!  GR_R1468
DSC1483 ! X =   653.6000,   6060.200,    461.000,    0 !   !END!  GR_R1469
DSC1484 ! X =   653.8000,   6060.200,    462.753,    0 !   !END!  GR_R1470
DSC1485 ! X =   654.0000,   6060.200,    492.818,    0 !   !END!  GR_R1471
DSC1486 ! X =   648.7000,   6055.500,    487.966,    0 !   !END!  GR_R1472
DSC1487 ! X =   649.2000,   6055.500,    501.324,    0 !   !END!  GR_R1473
DSC1488 ! X =   649.7000,   6055.500,    518.450,    0 !   !END!  GR_R1474
DSC1489 ! X =   650.2000,   6055.500,    495.078,    0 !   !END!  GR_R1475
DSC1490 ! X =   650.7000,   6055.500,    482.176,    0 !   !END!  GR_R1476
DSC1491 ! X =   651.2000,   6055.500,    461.000,    0 !   !END!  GR_R1477
DSC1492 ! X =   651.7000,   6055.500,    461.000,    0 !   !END!  GR_R1478
DSC1493 ! X =   652.2000,   6055.500,    461.000,    0 !   !END!  GR_R1479
DSC1494 ! X =   652.7000,   6055.500,    464.771,    0 !   !END!  GR_R1480
DSC1495 ! X =   653.2000,   6055.500,    461.000,    0 !   !END!  GR_R1481
DSC1496 ! X =   653.7000,   6055.500,    467.947,    0 !   !END!  GR_R1482
DSC1497 ! X =   654.2000,   6055.500,    470.954,    0 !   !END!  GR_R1483
DSC1498 ! X =   654.7000,   6055.500,    466.688,    0 !   !END!  GR_R1484
DSC1499 ! X =   648.7000,   6056.000,    503.518,    0 !   !END!  GR_R1485
DSC1500 ! X =   649.2000,   6056.000,    519.158,    0 !   !END!  GR_R1486
DSC1501 ! X =   649.7000,   6056.000,    496.902,    0 !   !END!  GR_R1487
DSC1502 ! X =   650.2000,   6056.000,    480.858,    0 !   !END!  GR_R1488
DSC1503 ! X =   654.7000,   6056.000,    461.000,    0 !   !END!  GR_R1489
DSC1504 ! X =   648.7000,   6056.500,    500.359,    0 !   !END!  GR_R1490
DSC1505 ! X =   649.2000,   6056.500,    493.640,    0 !   !END!  GR_R1491
DSC1506 ! X =   649.7000,   6056.500,    482.456,    0 !   !END!  GR_R1492
DSC1507 ! X =   654.7000,   6056.500,    461.000,    0 !   !END!  GR_R1493
DSC1508 ! X =   648.7000,   6057.000,    488.243,    0 !   !END!  GR_R1494
DSC1509 ! X =   649.2000,   6057.000,    475.000,    0 !   !END!  GR_R1495
DSC1510 ! X =   649.7000,   6057.000,    477.736,    0 !   !END!  GR_R1496
DSC1511 ! X =   654.7000,   6057.000,    461.000,    0 !   !END!  GR_R1497
DSC1512 ! X =   648.7000,   6057.500,    478.980,    0 !   !END!  GR_R1498
DSC1513 ! X =   649.2000,   6057.500,    533.402,    0 !   !END!  GR_R1499
DSC1514 ! X =   649.7000,   6057.500,    494.972,    0 !   !END!  GR_R1500
DSC1515 ! X =   654.7000,   6057.500,    461.000,    0 !   !END!  GR_R1501
DSC1516 ! X =   648.7000,   6058.000,    504.224,    0 !   !END!  GR_R1502
DSC1517 ! X =   649.2000,   6058.000,    521.994,    0 !   !END!  GR_R1503
DSC1518 ! X =   649.7000,   6058.000,    525.251,    0 !   !END!  GR_R1504
DSC1519 ! X =   654.7000,   6058.000,    463.462,    0 !   !END!  GR_R1505
DSC1520 ! X =   648.7000,   6058.500,    548.688,    0 !   !END!  GR_R1506
DSC1521 ! X =   649.2000,   6058.500,    512.000,    0 !   !END!  GR_R1507
DSC1522 ! X =   649.7000,   6058.500,    521.000,    0 !   !END!  GR_R1508
DSC1523 ! X =   654.7000,   6058.500,    461.000,    0 !   !END!  GR_R1509
DSC1524 ! X =   648.7000,   6059.000,    524.174,    0 !   !END!  GR_R1510
DSC1525 ! X =   649.2000,   6059.000,    530.885,    0 !   !END!  GR_R1511
DSC1526 ! X =   649.7000,   6059.000,    499.014,    0 !   !END!  GR_R1512
DSC1527 ! X =   654.7000,   6059.000,    466.323,    0 !   !END!  GR_R1513
DSC1528 ! X =   648.7000,   6059.500,    502.000,    0 !   !END!  GR_R1514
DSC1529 ! X =   649.2000,   6059.500,    497.000,    0 !   !END!  GR_R1515
DSC1530 ! X =   649.7000,   6059.500,    513.162,    0 !   !END!  GR_R1516
DSC1531 ! X =   654.7000,   6059.500,    518.737,    0 !   !END!  GR_R1517
DSC1532 ! X =   648.7000,   6060.000,    497.000,    0 !   !END!  GR_R1518
```

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DSC1533 ! X =   649.2000,   6060.000,    518.420,    0 !   !END!  GR_R1519
DSC1534 ! X =   649.7000,   6060.000,    517.213,    0 !   !END!  GR_R1520
DSC1535 ! X =   654.2000,   6060.000,    492.022,    0 !   !END!  GR_R1521
DSC1536 ! X =   654.7000,   6060.000,    531.672,    0 !   !END!  GR_R1522
DSC1537 ! X =   648.7000,   6060.500,    537.227,    0 !   !END!  GR_R1523
DSC1538 ! X =   649.2000,   6060.500,    512.747,    0 !   !END!  GR_R1524
DSC1539 ! X =   649.7000,   6060.500,    500.093,    0 !   !END!  GR_R1525
DSC1540 ! X =   650.2000,   6060.500,    469.293,    0 !   !END!  GR_R1526
DSC1541 ! X =   650.7000,   6060.500,    504.626,    0 !   !END!  GR_R1527
DSC1542 ! X =   651.2000,   6060.500,    504.090,    0 !   !END!  GR_R1528
DSC1543 ! X =   651.7000,   6060.500,    486.810,    0 !   !END!  GR_R1529
DSC1544 ! X =   652.2000,   6060.500,    461.000,    0 !   !END!  GR_R1530
DSC1545 ! X =   652.7000,   6060.500,    467.234,    0 !   !END!  GR_R1531
DSC1546 ! X =   653.2000,   6060.500,    461.000,    0 !   !END!  GR_R1532
DSC1547 ! X =   653.7000,   6060.500,    488.000,    0 !   !END!  GR_R1533
DSC1548 ! X =   654.2000,   6060.500,    517.042,    0 !   !END!  GR_R1534
DSC1549 ! X =   654.7000,   6060.500,    531.098,    0 !   !END!  GR_R1535
DSC1550 ! X =   648.7000,   6061.000,    525.985,    0 !   !END!  GR_R1536
DSC1551 ! X =   649.2000,   6061.000,    503.799,    0 !   !END!  GR_R1537
DSC1552 ! X =   649.7000,   6061.000,    474.107,    0 !   !END!  GR_R1538
DSC1553 ! X =   650.2000,   6061.000,    497.842,    0 !   !END!  GR_R1539
DSC1554 ! X =   650.7000,   6061.000,    505.603,    0 !   !END!  GR_R1540
DSC1555 ! X =   651.2000,   6061.000,    495.090,    0 !   !END!  GR_R1541
DSC1556 ! X =   651.7000,   6061.000,    471.738,    0 !   !END!  GR_R1542
DSC1557 ! X =   652.2000,   6061.000,    465.000,    0 !   !END!  GR_R1543
DSC1558 ! X =   652.7000,   6061.000,    479.107,    0 !   !END!  GR_R1544
DSC1559 ! X =   653.2000,   6061.000,    490.442,    0 !   !END!  GR_R1545
DSC1560 ! X =   653.7000,   6061.000,    502.786,    0 !   !END!  GR_R1546
DSC1561 ! X =   654.2000,   6061.000,    523.198,    0 !   !END!  GR_R1547
DSC1562 ! X =   654.7000,   6061.000,    521.000,    0 !   !END!  GR_R1548
DSC1563 ! X =   648.7000,   6061.500,    503.849,    0 !   !END!  GR_R1549
DSC1564 ! X =   649.2000,   6061.500,    492.057,    0 !   !END!  GR_R1550
DSC1565 ! X =   649.7000,   6061.500,    519.014,    0 !   !END!  GR_R1551
DSC1566 ! X =   650.2000,   6061.500,    521.545,    0 !   !END!  GR_R1552
DSC1567 ! X =   650.7000,   6061.500,    505.000,    0 !   !END!  GR_R1553
DSC1568 ! X =   651.2000,   6061.500,    469.000,    0 !   !END!  GR_R1554
DSC1569 ! X =   651.7000,   6061.500,    465.000,    0 !   !END!  GR_R1555
DSC1570 ! X =   652.2000,   6061.500,    464.363,    0 !   !END!  GR_R1556
DSC1571 ! X =   652.7000,   6061.500,    482.205,    0 !   !END!  GR_R1557
DSC1572 ! X =   653.2000,   6061.500,    517.513,    0 !   !END!  GR_R1558
DSC1573 ! X =   653.7000,   6061.500,    537.243,    0 !   !END!  GR_R1559
DSC1574 ! X =   654.2000,   6061.500,    534.000,    0 !   !END!  GR_R1560
DSC1575 ! X =   654.7000,   6061.500,    515.087,    0 !   !END!  GR_R1561
DSC1576 ! X =   648.7000,   6062.000,    503.000,    0 !   !END!  GR_R1562
DSC1577 ! X =   649.2000,   6062.000,    535.555,    0 !   !END!  GR_R1563
DSC1578 ! X =   649.7000,   6062.000,    543.646,    0 !   !END!  GR_R1564
DSC1579 ! X =   650.2000,   6062.000,    500.453,    0 !   !END!  GR_R1565
DSC1580 ! X =   650.7000,   6062.000,    483.282,    0 !   !END!  GR_R1566
DSC1581 ! X =   651.2000,   6062.000,    465.000,    0 !   !END!  GR_R1567
DSC1582 ! X =   651.7000,   6062.000,    465.000,    0 !   !END!  GR_R1568
DSC1583 ! X =   652.2000,   6062.000,    472.596,    0 !   !END!  GR_R1569
DSC1584 ! X =   652.7000,   6062.000,    517.279,    0 !   !END!  GR_R1570
DSC1585 ! X =   653.2000,   6062.000,    524.662,    0 !   !END!  GR_R1571
DSC1586 ! X =   653.7000,   6062.000,    537.000,    0 !   !END!  GR_R1572
DSC1587 ! X =   654.2000,   6062.000,    526.981,    0 !   !END!  GR_R1573
```

```
 DSC1588 ! X =   654.7000,   6062.000,    512.845,    0 !   !END!  GR_R1574
 DSC1589 ! X =   648.7000,   6062.500,    504.931,    0 !   !END!  GR_R1575
 DSC1590 ! X =   649.2000,   6062.500,    550.664,    0 !   !END!  GR_R1576
 DSC1591 ! X =   649.7000,   6062.500,    506.461,    0 !   !END!  GR_R1577
 DSC1592 ! X =   650.2000,   6062.500,    503.549,    0 !   !END!  GR_R1578
 DSC1593 ! X =   650.7000,   6062.500,    487.832,    0 !   !END!  GR_R1579
 DSC1594 ! X =   651.2000,   6062.500,    471.980,    0 !   !END!  GR_R1580
 DSC1595 ! X =   651.7000,   6062.500,    492.221,    0 !   !END!  GR_R1581
 DSC1596 ! X =   652.2000,   6062.500,    534.616,    0 !   !END!  GR_R1582
 DSC1597 ! X =   652.7000,   6062.500,    530.274,    0 !   !END!  GR_R1583
 DSC1598 ! X =   653.2000,   6062.500,    540.006,    0 !   !END!  GR_R1584
 DSC1599 ! X =   653.7000,   6062.500,    528.919,    0 !   !END!  GR_R1585
 DSC1600 ! X =   654.2000,   6062.500,    525.746,    0 !   !END!  GR_R1586
 DSC1601 ! X =   654.7000,   6062.500,    544.006,    0 !   !END!  GR_R1587
```

---

a

Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

b

Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.

APPENDIX C-3

CALPUFF INPUT (GASES) - MINE DOMAIN

```
CALPUFF.INP     2.0
Joyce Lake 121-18002-01
Mine domain (Rev1-2014) - gases

---------------- Run title (3 lines) ------------------------------------------

                    CALPUFF MODEL CONTROL FILE
                    --------------------------

--------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names

--------------
Default Name  Type           File Name
------------  ----           ---------
CALMET.DAT    input    * METDAT =             *
    or
ISCMET.DAT    input    * ISCDAT =             *
    or
PLMMET.DAT    input    * PLMDAT =             *
    or
PROFILE.DAT   input    * PRFDAT =             *
SURFACE.DAT   input    * SFCDAT =             *
RESTARTB.DAT  input    * RSTARTB=             *
--------------------------------------------------------------------------------
CALPUFF.LST   output   ! PUFLST =             !
CONC.DAT      output   ! CONDAT =             !
DFLX.DAT      output   ! DFDAT  =             !
WFLX.DAT      output   * WFDAT  =             *

VISB.DAT      output   * VISDAT =             *
TK2D.DAT      output   * T2DDAT =             *
RHO2D.DAT     output   * RHODAT =             *
RESTARTE.DAT  output   ! RSTARTE=             !
--------------------------------------------------------------------------------
Emission Files
--------------
PTEMARB.DAT   input    * PTDAT  =             *
VOLEMARB.DAT  input    * VOLDAT =             *
BAEMARB.DAT   input    * ARDAT  =             *
LNEMARB.DAT   input    * LNDAT  =             *
--------------------------------------------------------------------------------
Other Files
-----------
OZONE.DAT     input    * OZDAT  =             *
VD.DAT        input    * VDDAT  =             *
CHEM.DAT      input    * CHEMDAT=             *
AUX           input    * AUXEXT =             *
(Extension added to METDAT filename(s) for files
 with auxiliary 2D and 3D data)
H2O2.DAT      input    * H2O2DAT=             *
NH3Z.DAT      input    * NH3ZDAT=             *
HILL.DAT      input    * HILDAT=              *
HILLRCT.DAT   input    * RCTDAT=              *
```

```
COASTLN.DAT   input    * CSTDAT=              *
FLUXBDY.DAT   input    * BDYDAT=              *
BCON.DAT      input    * BCNDAT=              *
DEBUG.DAT     output   ! DEBUG =              !
MASSFLX.DAT   output   * FLXDAT=              *
MASSBAL.DAT   output   ! BALDAT=              !
FOG.DAT       output   * FOGDAT=              *
RISE.DAT      output   * RISDAT=              *
-------------------------------------------------------------------------------
All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE
NOTE: (1) file/path names can be up to 132 characters in length


Provision for multiple input files
----------------------------------

     Number of Modeling Domains (NMETDOM)
                                    Default: 1       ! NMETDOM =  1  !

     Number of CALMET.DAT files for run (NMETDAT)
                                    Default: 1       ! NMETDAT =  2  !

     Number of PTEMARB.DAT files for run (NPTDAT)
                                    Default: 0       ! NPTDAT  = 512 !

     Number of BAEMARB.DAT files for run (NARDAT)
                                    Default: 0       ! NARDAT  =  0  !

     Number of VOLEMARB.DAT files for run (NVOLDAT)
                                    Default: 0       ! NVOLDAT =  1  !

!END!

-------------
Subgroup (0a)
-------------

  Provide a name for each CALMET domain if NMETDOM > 1
  Enter NMETDOM lines.
                                  a,b
Default Name             Domain Name
------------             ------------
 none                  * DOMAIN1=     *   *END*
 none                  * DOMAIN2=     *   *END*
 none                  * DOMAIN3=     *   *END*


  The following CALMET.DAT filenames are processed in sequence
  if NMETDAT > 1

  Enter NMETDAT lines, 1 line for each file name.
```

```
                                    a,c,d
Default Name  Type          File Name
------------  ----          ---------
! METDAT1 = C:\CALMET\CALMET01.DAT! !END!
! METDAT1 = C:\CALMET\CALMET02.DAT! !END!

-------------
    a
     The name for each CALMET domain and each CALMET.DAT file is treated
     as a separate input subgroup and therefore must end with an input
     group terminator.
    b
     Use DOMAIN1= to assign the name for the outermost CALMET domain.
     Use DOMAIN2= to assign the name for the next inner CALMET domain.
     Use DOMAIN3= to assign the name for the next inner CALMET domain, etc.
      ------------------------------------------------------------------
      |   When inner domains with equal resolution (grid-cell size)    |
      |   overlap, the data from the FIRST such domain in the list will |
      |   be used if all other criteria for choosing the controlling    |
      |   grid domain are inconclusive.                                 |
      ------------------------------------------------------------------
    c
     Use METDAT1= to assign the file names for the outermost CALMET domain.
     Use METDAT2= to assign the file names for the next inner CALMET domain.
     Use METDAT3= to assign the file names for the next inner CALMET domain, etc.
    d
     The filenames for each domain must be provided in sequential order

-------------
Subgroup (0b)
-------------

  The following PTEMARB.DAT filenames are processed if NPTDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! PTDAT=edrill01_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=eexcv01_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=eexcv02_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=etdoz01_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=etdoz02_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=efelp01_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=efelp02_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=efelp03_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=genset1_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=hlg0001e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0002e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0003e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0004e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0005e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0006e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0007e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0008e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0009e_multispecies_XXXX.hrl!   !END!
```

```
none          input       ! PTDAT=hlg0010e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0011e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0012e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0338e_multispecies_XXXX.hrl!   !END!
```

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none          input       ! PTDAT=hlg0339e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0340e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0341e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0342e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0343e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0344e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0345e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0347e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0348e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0349e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0350e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0351e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0352e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0353e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0354e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0355e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0356e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0357e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0358e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0359e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0360e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0362e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0363e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0364e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0365e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0366e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0367e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0368e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0369e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0370e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0371e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0372e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0373e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0374e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0377e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0378e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0383e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0389e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0390e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0391e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0392e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0393e_multispecies_XXXX.hrl!   !END!
```

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none          input       ! PTDAT=hlg0394e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0395e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0396e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0397e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0398e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0399e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0400e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0402e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0403e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0404e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0405e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0406e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0407e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0408e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0409e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0410e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0411e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0412e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0413e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0414e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0415e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0416e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0417e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0418e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0419e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0420e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0421e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0422e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0423e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0424e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0425e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0426e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1106e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1107e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1113e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1114e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1115e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1116e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1117e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1118e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1119e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1120e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1121e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1122e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1123e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1125e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1129e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1131e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1132e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1133e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1135e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1140e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1142e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1143e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1144e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1145e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1146e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1148e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1150e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1151e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1152e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1153e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1154e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1155e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1157e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1158e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1159e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1160e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1161e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1162e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1163e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1164e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1165e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1166e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1170e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1178e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1180e_multispecies_XXXX.hrl!   !END!
```

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none          input       ! PTDAT=hlg1181e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1182e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1183e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1184e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1185e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1186e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1187e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1188e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1189e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1190e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1191e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1192e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1193e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1194e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1195e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1196e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1197e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1198e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1201e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1202e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1203e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1204e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1205e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1206e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1208e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1209e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1210e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1211e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1212e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1213e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1214e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1215e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1216e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1217e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1218e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1219e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1220e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1221e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1222e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1225e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1226e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1227e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg1229e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1230e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1231e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1232e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1233e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg1234e_multispecies_XXXX.hrl!   !END!
```

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-------------
Subgroup (0c)
-------------

  The following BAEMARB.DAT filenames are processed if NARDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       * ARDAT=     *   *END*

-------------
Subgroup (0d)
-------------

  The following VOLEMARB.DAT filenames are processed if NVOLDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! VOLDAT=blast1_multispecies_XXXX.hrl!   !END!

--------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

    Option to run all periods found
    in the met. file     (METRUN)   Default: 0       ! METRUN =   0  !

         METRUN = 0 - Run period explicitly defined below
         METRUN = 1 - Run all periods in met. file

     Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX !
                       Month  (IBMO)  --    No default   ! IBMO  =  XX   !
                       Day    (IBDY)  --    No default   ! IBDY  =  XX   !
     Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0    !
                       Minute (IBMIN) --    No default   ! IBMIN =  0    !
                       Second (IBSEC) --    No default   ! IBSEC =  0    !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX !
                       Month  (IEMO)  --    No default   ! IEMO  =  XX   !
                       Day    (IEDY)  --    No default   ! IEDY  =  XX   !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0    !
                       Minute (IEMIN) --    No default   ! IEMIN =  0    !
                       Second (IESEC) --    No default   ! IESEC =  0    !

     (These are only used if METRUN = 0)

     Base time zone:          (ABTZ)  --    No default   ! ABTZ= UTC-0500 !
      (character*8)
     The modeling domain may span multiple time zones.  ABTZ defines the
     base time zone used for the entire simulation.  This must match the
     base time zone of the meteorological data.
     Examples:
```

```
    Los Angeles, USA          = UTC-0800
    New York, USA             = UTC-0500
    Santiago, Chile           = UTC-0400
    Greenwich Mean Time (GMT) = UTC+0000
    Rome, Italy               = UTC+0100
    Cape Town, S.Africa       = UTC+0200
    Sydney, Australia         = UTC+1000

Length of modeling time-step (seconds)
Equal to update period in the primary
meteorological data files, or an
integer fraction of it (1/2, 1/3 ...)
Must be no larger than 1 hour
(NSECDT)                      Default:3600     ! NSECDT =  3600  !
                              Units: seconds

Number of chemical species (NSPEC)
                              Default: 5       ! NSPEC =  7   !

Number of chemical species
to be emitted  (NSE)          Default: 3       ! NSE   =  4   !

Flag to stop run after
SETUP phase (ITEST)           Default: 2       ! ITEST =  2   !
(Used to allow checking
of the model inputs, files, etc.)
      ITEST = 1 - STOPS program after SETUP phase
      ITEST = 2 - Continues with execution of program
                  after SETUP

Restart Configuration:

   Control flag (MRESTART)    Default: 0       ! MRESTART =  0  !

      0 = Do not read or write a restart file
      1 = Read a restart file at the beginning of
          the run
      2 = Write a restart file during run
      3 = Read a restart file at beginning of run
          and write a restart file during run

   Number of periods in Restart
   output cycle (NRESPD)      Default: 0       ! NRESPD =  0  !

      0 = File written only at last period
     >0 = File updated every NRESPD periods

Meteorological Data Format (METFM)
                              Default: 1       ! METFM  =  1  !

      METFM = 1 - CALMET binary file (CALMET.MET)
      METFM = 2 - ISC ASCII file (ISCMET.MET)
      METFM = 3 - AUSPLUME ASCII file (PLMMET.MET)
      METFM = 4 - CTDM plus tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)
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          METFM = 5 - AERMET tower file (PROFILE.DAT) and
                      surface parameters file (SURFACE.DAT)

     Meteorological Profile Data Format (MPRFFM)
            (used only for METFM = 1, 2, 3)
                                    Default: 1       ! MPRFFM =  1  !

          MPRFFM = 1 - CTDM plus tower file (PROFILE.DAT)
          MPRFFM = 2 - AERMET tower file (PROFILE.DAT)

     PG sigma-y is adjusted by the factor (AVET/PGTIME)**0.2
     Averaging Time (minutes) (AVET)
                                    Default: 60.0    ! AVET   = 60. !
     PG Averaging Time (minutes) (PGTIME)
                                    Default: 60.0    ! PGTIME = 60. !


     Output units for binary concentration and flux files
     written in Dataset v2.2 or later formats
     (IOUTU)                        Default: 1       ! IOUTU  =  1  !
         1 = mass      -  g/m3 (conc) or g/m2/s (dep)
         2 = odour     -  odour_units (conc)
         3 = radiation -  Bq/m3 (conc) or Bq/m2/s (dep)


     Output Dataset format for binary concentration
     and flux files (e.g., CONC.DAT)
     (IOVERS)                       Default: 2       ! IOVERS =  2  !
         1 = Dataset Version 2.1
         2 = Dataset Version 2.2


!END!


------------------------------------------------------------------------------

INPUT GROUP: 2 -- Technical options
--------------


     Vertical distribution used in the
     near field (MGAUSS)                Default: 1     ! MGAUSS =  1  !
        0 = uniform
        1 = Gaussian

     Terrain adjustment method
     (MCTADJ)                           Default: 3     ! MCTADJ =  3  !
        0 = no adjustment
        1 = ISC-type of terrain adjustment
        2 = simple, CALPUFF-type of terrain
            adjustment
        3 = partial plume path adjustment

     Subgrid-scale complex terrain
```

```
flag (MCTSG)                          Default: 0     ! MCTSG  =  0  !
   0 = not modeled
   1 = modeled

Near-field puffs modeled as
elongated slugs? (MSLUG)              Default: 0     ! MSLUG  =  0  !
   0 = no
   1 = yes (slug model used)

Transitional plume rise modeled?
(MTRANS)                              Default: 1     ! MTRANS =  1  !
   0 = no  (i.e., final rise only)
   1 = yes (i.e., transitional rise computed)

Stack tip downwash? (MTIP)            Default: 1     ! MTIP   =  1  !
   0 = no  (i.e., no stack tip downwash)
   1 = yes (i.e., use stack tip downwash)

Method used to compute plume rise for
point sources not subject to building
downwash? (MRISE)                     Default: 1     ! MRISE  =  1  !
   1 = Briggs plume rise
   2 = Numerical plume rise

Method used to simulate building
downwash? (MBDW)                      Default: 1     ! MBDW   =  2  !
   1 = ISC method
   2 = PRIME method

Vertical wind shear modeled above
stack top (modified Briggs plume rise)?
(MSHEAR)                              Default: 0     ! MSHEAR =  0  !
   0 = no  (i.e., vertical wind shear not modeled)
   1 = yes (i.e., vertical wind shear modeled)

Puff splitting allowed? (MSPLIT)      Default: 0     ! MSPLIT =  1  !
   0 = no (i.e., puffs not split)
   1 = yes (i.e., puffs are split)

Chemical mechanism flag (MCHEM)       Default: 1     ! MCHEM  =  6  !
   0 = chemical transformation not
       modeled
   1 = transformation rates computed
       internally (MESOPUFF II scheme)
   2 = user-specified transformation
       rates used
   3 = transformation rates computed
       internally (RIVAD/ARM3 scheme)
   4 = secondary organic aerosol formation
       computed (MESOPUFF II scheme for OH)
   5 = user-specified half-life with or
       without transfer to child species
   6 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium)
```

```
   7 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium and CalTech SOA)

Aqueous phase transformation flag (MAQCHEM)
(Used only if MCHEM = 6, or 7)        Default: 0     ! MAQCHEM = 1  !
   0 = aqueous phase transformation
       not modeled
   1 = transformation rates and wet
       scavenging coefficients adjusted
       for in-cloud aqueous phase reactions
       (adapted from RADM cloud model
        implementation in CMAQ/SCICHEM)

Liquid Water Content flag (MLWC)
(Used only if MAQCHEM = 1)            Default: 1     ! MLWC   =  0  !
   0 = water content estimated from cloud cover
       and presence of precipitation
   1 = gridded cloud water data read from CALMET
       water content output files (filenames are
       the CALMET.DAT names PLUS the extension
       AUXEXT provided in Input Group 0)

Wet removal modeled ? (MWET)          Default: 1     ! MWET   =  0  !
   0 = no
   1 = yes

Dry deposition modeled ? (MDRY)       Default: 1     ! MDRY   =  1  !
   0 = no
   1 = yes
   (dry deposition method specified
    for each species in Input Group 3)


Gravitational settling (plume tilt)
modeled ? (MTILT)                     Default: 0     ! MTILT  =  0  !
   0 = no
   1 = yes
   (puff center falls at the gravitational
    settling velocity for 1 particle species)

Restrictions:
    - MDRY  = 1
    - NSPEC = 1  (must be particle species as well)
    - sg    = 0  GEOMETRIC STANDARD DEVIATION in Group 8 is
                 set to zero for a single particle diameter

Method used to compute dispersion
coefficients (MDISP)                  Default: 3     ! MDISP  =  2  !

   1 = dispersion coefficients computed from measured values
       of turbulence, sigma v, sigma w
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
```

```
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.
   5 = CTDM sigmas used for stable and neutral conditions.
       For unstable conditions, sigmas are computed as in
       MDISP = 3, described above.  MDISP = 5 assumes that
       measured values are read

Sigma-v/sigma-theta, sigma-w measurements used? (MTURBVW)
(Used only if MDISP = 1 or 5)         Default: 3     ! MTURBVW =  3  !
   1 = use sigma-v or sigma-theta measurements
       from PROFILE.DAT to compute sigma-y
       (valid for METFM = 1, 2, 3, 4, 5)
   2 = use sigma-w measurements
       from PROFILE.DAT to compute sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   3 = use both sigma-(v/theta) and sigma-w
       from PROFILE.DAT to compute sigma-y and sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   4 = use sigma-theta measurements
       from PLMMET.DAT to compute sigma-y
       (valid only if METFM = 3)

Back-up method used to compute dispersion
when measured turbulence data are
missing (MDISP2)                      Default: 3     ! MDISP2 =  3  !
(used only if MDISP = 1 or 5)
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.

[DIAGNOSTIC FEATURE]
Method used for Lagrangian timescale for Sigma-y
(used only if MDISP=1,2 or MDISP2=1,2)
(MTAULY)                              Default: 0     ! MTAULY =  0  !
   0 = Draxler default 617.284 (s)
   1 = Computed as Lag. Length / (.75 q) -- after SCIPUFF
  10 < Direct user input (s)             -- e.g., 306.9


[DIAGNOSTIC FEATURE]
Method used for Advective-Decay timescale for Turbulence
(used only if MDISP=2 or MDISP2=2)
(MTAUADV)                             Default: 0     ! MTAUADV = 0  !
   0 = No turbulence advection
   1 = Computed (OPTION NOT IMPLEMENTED)
  10 < Direct user input (s)   -- e.g., 800
```

```
Method used to compute turbulence sigma-v &
sigma-w using micrometeorological variables
(Used only if MDISP = 2 or MDISP2 = 2)
(MCTURB)                              Default: 1     ! MCTURB =  1  !
   1 = Standard CALPUFF subroutines
   2 = AERMOD subroutines

PG sigma-y,z adj. for roughness?      Default: 0     ! MROUGH =  0  !
(MROUGH)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTL =  1  !
elevated inversion modeled for
point sources?
(MPARTL)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTLBA = 1 !
elevated inversion modeled for
buoyant area sources?
(MPARTLBA)
   0 = no
   1 = yes

Strength of temperature inversion     Default: 0     ! MTINV  =  0  !
provided in PROFILE.DAT extended records?
(MTINV)
   0 = no (computed from measured/default gradients)
   1 = yes

PDF used for dispersion under convective conditions?
                                      Default: 0     ! MPDF   =  1  !
(MPDF)
   0 = no
   1 = yes

Sub-Grid TIBL module used for shore line?
                                      Default: 0     ! MSGTIBL = 0  !
(MSGTIBL)
   0 = no
   1 = yes

Boundary conditions (concentration) modeled?
                                      Default: 0     ! MBCON  =  0  !
(MBCON)
   0 = no
   1 = yes, using formatted BCON.DAT file
   2 = yes, using unformatted CONC.DAT file

Note:  MBCON > 0 requires that the last species modeled
       be 'BCON'.  Mass is placed in species BCON when
       generating boundary condition puffs so that clean
```

```
       air entering the modeling domain can be simulated
       in the same way as polluted air.  Specify zero
       emission of species BCON for all regular sources.

Individual source contributions saved?
                                     Default: 0     ! MSOURCE = 0  !
(MSOURCE)
   0 = no
   1 = yes


Analyses of fogging and icing impacts due to emissions from
arrays of mechanically-forced cooling towers can be performed
using CALPUFF in conjunction with a cooling tower emissions
processor (CTEMISS) and its associated postprocessors.  Hourly
emissions of water vapor and temperature from each cooling tower
cell are computed for the current cell configuration and ambient
conditions by CTEMISS. CALPUFF models the dispersion of these
emissions and provides cloud information in a specialized format
for further analysis. Output to FOG.DAT is provided in either
'plume mode' or 'receptor mode' format.

Configure for FOG Model output?
                                     Default: 0     ! MFOG   =  0  !
(MFOG)
   0 = no
   1 = yes  - report results in PLUME Mode format
   2 = yes  - report results in RECEPTOR Mode format


Test options specified to see if
they conform to regulatory
values? (MREG)                       Default: 1     ! MREG   =  0  !

   0 = NO checks are made
   1 = Technical options must conform to USEPA
       Long Range Transport (LRT) guidance
                 METFM    1 or 2
                 AVET     60. (min)
                 PGTIME   60. (min)
                 MGAUSS   1
                 MCTADJ   3
                 MTRANS   1
                 MTIP     1
                 MRISE    1
                 MCHEM    1 or 3 (if modeling SOx, NOx)
                 MWET     1
                 MDRY     1
                 MDISP    2 or 3
                 MPDF     0 if MDISP=3
                          1 if MDISP=2
                 MROUGH   0
                 MPARTL   1
                 MPARTLBA 0
                 SYTDEP   550. (m)
```

```
                        MHFTSZ   0
                        SVMIN    0.5 (m/s)


!END!


--------------------------------------------------------------------------------

INPUT GROUP: 3a, 3b -- Species list
-------------------

------------
Subgroup (3a)
------------

  The following species are modeled:

! CSPEC     = SO2  ! !END!
! CSPEC     = SO4  ! !END!
! CSPEC     = NO   ! !END!
! CSPEC     = NO2  ! !END!
! CSPEC     = HNO3 ! !END!
! CSPEC     = NO3  ! !END!
! CSPEC     = DIOX ! !END!

                                                        Dry                 OUTPUT GROUP
    SPECIES          MODELED          EMITTED       DEPOSITED                 NUMBER
     NAME         (0=NO, 1=YES)    (0=NO, 1=YES)    (0=NO,                 (0=NONE,
   (Limit: 12                                        1=COMPUTED-GAS         1=1st CGRUP,
    Characters                                       2=COMPUTED-PARTICLE    2=2nd CGRUP,
    in length)                                       3=USER-SPECIFIED)      3= etc.)

!     SO2 =            1,               1,               1,                   0  !
!     SO4 =            1,               0,               2,                   0  !
!      NO =            1,               1,               1,                   0  !
!     NO2 =            1,               1,               1,                   0  !
!    HNO3 =            1,               0,               1,                   0  !
!     NO3 =            1,               0,               2,                   0  !
!    DIOX =            1,               1,               0,                   0  !
!END!

  Note:  The last species in (3a) must be 'BCON' when using the
         boundary condition option (MBCON > 0).  Species BCON should
         typically be modeled as inert (no chem transformation or
         removal).

-------------
Subgroup (3b)
-------------
  The following names are used for Species-Groups in which results
  for certain species are combined (added) prior to output.  The
  CGRUP name will be used as the species name in output files.
  Use this feature to model specific particle-size distributions
  by treating each size-range as a separate species.
```

```
  Order must be consistent with 3(a) above.

--------------------------------------------------------------------------------


INPUT GROUP: 4 -- Map Projection and Grid control parameters
--------------

     Projection for all (X,Y):
     -------------------------

     Map projection
     (PMAP)                     Default: UTM    ! PMAP  =  UTM !

         UTM :  Universal Transverse Mercator
         TTM :  Tangential Transverse Mercator
         LCC :  Lambert Conformal Conic
          PS :  Polar Stereographic
          EM :  Equatorial Mercator
        LAZA :  Lambert Azimuthal Equal Area

     False Easting and Northing (km) at the projection origin
     (Used only if PMAP= TTM, LCC, or LAZA)
     (FEAST)                    Default=0.0     ! FEAST  = 0.000  !
     (FNORTH)                   Default=0.0     ! FNORTH = 0.000  !

     UTM zone (1 to 60)
     (Used only if PMAP=UTM)
     (IUTMZN)                   No Default      ! IUTMZN =  19 !

     Hemisphere for UTM projection?
     (Used only if PMAP=UTM)
     (UTMHEM)                   Default: N      ! UTMHEM =   N !
         N   :  Northern hemisphere projection
         S   :  Southern hemisphere projection

     Latitude and Longitude (decimal degrees) of projection origin
     (Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
     (RLAT0)                    No Default      * RLAT0 = 0N  *
     (RLON0)                    No Default      * RLON0 = 0E  *

         TTM :  RLON0 identifies central (true N/S) meridian of projection
                RLAT0 selected for convenience
         LCC :  RLON0 identifies central (true N/S) meridian of projection
                RLAT0 selected for convenience
         PS  :  RLON0 identifies central (grid N/S) meridian of projection
                RLAT0 selected for convenience
         EM  :  RLON0 identifies central meridian of projection
                RLAT0 is REPLACED by 0.0N (Equator)
         LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
                RLAT0 identifies latitude of tangent-point of mapping plane

     Matching parallel(s) of latitude (decimal degrees) for projection
     (Used only if PMAP= LCC or PS)
```

```
    (XLAT1)                    No Default      * XLAT1 = 0N  *
    (XLAT2)                    No Default      * XLAT2 = 0N  *

        LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
        PS  :  Projection plane slices through Earth at XLAT1
               (XLAT2 is not used)

    ----------
    Note:  Latitudes and longitudes should be positive, and include a
           letter N,S,E, or W indicating north or south latitude, and
           east or west longitude.  For example,
           35.9  N Latitude  =  35.9N
           118.7 E Longitude = 118.7E


    Datum-region
    ------------

    The Datum-Region for the coordinates is identified by a character
    string.  Many mapping products currently available use the model of the
    Earth known as the World Geodetic System 1984 (WGS-84).  Other local
    models may be in use, and their selection in CALMET will make its output
    consistent with local mapping products.  The list of Datum-Regions with
    official transformation parameters is provided by the National Imagery and
    Mapping Agency (NIMA).

    NIMA Datum - Regions(Examples)
    ------------------------------------------------------------------------
    WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
    NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
    NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
    NWS-84    NWS 6370KM Radius, Sphere
    ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

    Datum-region for output coordinates
    (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


METEOROLOGICAL Grid:

    Rectangular grid defined for projection PMAP,
    with X the Easting and Y the Northing coordinate

           No. X grid cells (NX)      No default     ! NX =  140    !
           No. Y grid cells (NY)      No default     ! NY =  140    !
       No. vertical layers (NZ)       No default     ! NZ =   10    !

         Grid spacing (DGRIDKM)       No default     ! DGRIDKM = .1 !
                                      Units: km

               Cell face heights
                   (ZFACE(nz+1))      No defaults
                                      Units: m
  ! ZFACE = .0, 20.0, 40.0, 80.0, 160.0, 300.0, 600.0, 1000.0, 1500.0, 2000.0, 2500.0 !
```

```
          Reference Coordinates
        of SOUTHWEST corner of
             grid cell(1, 1):

         X coordinate (XORIGKM)     No default     ! XORIGKM =  650.300 !
         Y coordinate (YORIGKM)     No default     ! YORIGKM = 6077.800 !
                                  Units: km
```

COMPUTATIONAL Grid:

The computational grid is identical to or a subset of the MET. grid. The lower left (LL) corner of the computational grid is at grid point (IBCOMP, JBCOMP) of the MET. grid. The upper right (UR) corner of the computational grid is at grid point (IECOMP, JECOMP) of the MET. grid. The grid spacing of the computational grid is the same as the MET. grid.

```
   X index of LL corner (IBCOMP)      No default     ! IBCOMP =   1  !
             (1 <= IBCOMP <= NX)

   Y index of LL corner (JBCOMP)      No default     ! JBCOMP =   1  !
             (1 <= JBCOMP <= NY)


   X index of UR corner (IECOMP)      No default     ! IECOMP = 140  !
             (1 <= IECOMP <= NX)

   Y index of UR corner (JECOMP)      No default     ! JECOMP = 140  !
             (1 <= JECOMP <= NY)
```

SAMPLING Grid (GRIDDED RECEPTORS):

The lower left (LL) corner of the sampling grid is at grid point (IBSAMP, JBSAMP) of the MET. grid. The upper right (UR) corner of the sampling grid is at grid point (IESAMP, JESAMP) of the MET. grid. The sampling grid must be identical to or a subset of the computational grid. It may be a nested grid inside the computational grid. The grid spacing of the sampling grid is DGRIDKM/MESHDN.

```
   Logical flag indicating if gridded
   receptors are used (LSAMP)         Default: T     ! LSAMP  =  F  !
   (T=yes, F=no)

   X index of LL corner (IBSAMP)      No default     ! IBSAMP =  0  !
    (IBCOMP <= IBSAMP <= IECOMP)

   Y index of LL corner (JBSAMP)      No default     ! JBSAMP =  0  !
    (JBCOMP <= JBSAMP <= JECOMP)


   X index of UR corner (IESAMP)      No default     ! IESAMP =  0  !
    (IBCOMP <= IESAMP <= IECOMP)
```

```
        Y index of UR corner (JESAMP)      No default     ! JESAMP =  0  !
         (JBCOMP <= JESAMP <= JECOMP)


       Nesting factor of the sampling
        grid (MESHDN)                      Default: 1     ! MESHDN =  1  !
        (MESHDN is an integer >= 1)

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 5 -- Output Options
--------------
                                          *                          *
     FILE                        DEFAULT VALUE             VALUE THIS RUN
     ----                        -------------             --------------

   Concentrations (ICON)              1                   !  ICON  =  1  !
   Dry Fluxes (IDRY)                  1                   !  IDRY  =  0  !
   Wet Fluxes (IWET)                  1                   !  IWET  =  0  !
   2D Temperature (IT2D)              0                   !  IT2D  =  0  !
   2D Density (IRHO)                  0                   !  IRHO  =  0  !
   Relative Humidity (IVIS)           1                   !  IVIS  =  0  !
    (relative humidity file is
     required for visibility
     analysis)
   Use data compression option in output file?
   (LCOMPRS)                          Default: T          ! LCOMPRS = T  !

   *
    0 = Do not create file, 1 = create file


    QA PLOT FILE OUTPUT OPTION:

       Create a standard series of output files (e.g.
       locations of sources, receptors, grids ...)
       suitable for plotting?
       (IQAPLOT)                      Default: 1          ! IQAPLOT = 0  !
         0 = no
         1 = yes

    DIAGNOSTIC PUFF-TRACKING OUTPUT OPTION:

       Puff locations and properties reported to
       PFTRAK.DAT file for postprocessing?
       (IPFTRAK)                      Default: 0          ! IPFTRAK = 0  !
         0 = no
         1 = yes, update puff output at end of each timestep
         2 = yes, update puff output at end of each sampling step

    DIAGNOSTIC MASS FLUX OUTPUT OPTIONS:
```

```
   Mass flux across specified boundaries
   for selected species reported?
   (IMFLX)                         Default: 0         ! IMFLX  =  0  !
     0 = no
     1 = yes (FLUXBDY.DAT and MASSFLX.DAT filenames
              are specified in Input Group 0)

   Mass balance for each species
   reported?
   (IMBAL)                         Default: 0         ! IMBAL  =  1  !
     0 = no
     1 = yes (MASSBAL.DAT filename is
          specified in Input Group 0)


NUMERICAL RISE OUTPUT OPTION:

   Create a file with plume properties for each rise
   increment, for each model timestep?
   This applies to sources modeled with numerical rise
   and is limited to ONE source in the run.
   (INRISE)                        Default: 0         ! INRISE =  0  !
     0 = no
     1 = yes (RISE.DAT filename is
              specified in Input Group 0)


LINE PRINTER OUTPUT OPTIONS:

   Print concentrations (ICPRT)    Default: 0         ! ICPRT  =  0  !
   Print dry fluxes (IDPRT)        Default: 0         ! IDPRT  =  0  !
   Print wet fluxes (IWPRT)        Default: 0         ! IWPRT  =  0  !
   (0 = Do not print, 1 = Print)

   Concentration print interval
   (ICFRQ) in timesteps            Default: 1         ! ICFRQ  =  1  !
   Dry flux print interval
   (IDFRQ) in timesteps            Default: 1         ! IDFRQ  =  1  !
   Wet flux print interval
   (IWFRQ) in timesteps            Default: 1         ! IWFRQ  =  1  !

   Units for Line Printer Output
   (IPRTU)                         Default: 1         ! IPRTU  =  3  !
                  for              for
              Concentration    Deposition
       1 =       g/m**3          g/m**2/s
       2 =      mg/m**3         mg/m**2/s
       3 =      ug/m**3         ug/m**2/s
       4 =      ng/m**3         ng/m**2/s
       5 =     Odour Units

   Messages tracking progress of run
   written to the screen ?
   (IMESG)                         Default: 2         ! IMESG  =  2  !
```

```
         0 = no
         1 = yes (advection step, puff ID)
         2 = yes (YYYYJJJHH, # old puffs, # emitted puffs)


     SPECIES (or GROUP for combined species) LIST FOR OUTPUT OPTIONS

                 ---- CONCENTRATIONS ----   ------ DRY FLUXES ------   ------ WET FLUXES
                 ------   -- MASS FLUX --
   SPECIES
   /GROUP        PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON
   DISK?   SAVED ON DISK?
   -------       ------------------------   ------------------------
   ------------------------   ---------------
!          SO2 =    0,           1,            0,           1,            0,
0,                0   !
!          SO4 =    0,           1,            0,           1,            0,
0,                0   !
!           NO =    0,           1,            0,           1,            0,
0,                0   !
!          NO2 =    0,           1,            0,           1,            0,
0,                0   !
!         HNO3 =    0,           1,            0,           1,            0,
0,                0   !
!          NO3 =    0,           1,            0,           1,            0,
0,                0   !
!         DIOX =    1,           1,            0,           0,            0,
0,                0   !

  Note:  Species BCON (for MBCON > 0) does not need to be saved on disk.


     OPTIONS FOR PRINTING "DEBUG" QUANTITIES (much output)

       Logical for debug output
       (LDEBUG)                                  Default: F     ! LDEBUG =  F  !

       First puff to track
       (IPFDEB)                                  Default: 1     ! IPFDEB =  1  !

       Number of puffs to track
       (NPFDEB)                                  Default: 1     ! NPFDEB =  1  !

       Met. period to start output
       (NN1)                                     Default: 1     ! NN1 =     1  !

       Met. period to end output
       (NN2)                                     Default: 10    ! NN2 =    10  !

!END!
```

```
INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs
-------------------------

---------------
Subgroup (6a)
---------------
       Number of terrain features (NHILL)       Default: 0     ! NHILL  =  0  !

       Number of special complex terrain
       receptors  (NCTREC)                      Default: 0     ! NCTREC =  0  !

       Terrain and CTSG Receptor data for
       CTSG hills input in CTDM format ?
       (MHILL)                                  No Default     ! MHILL  =  2  !
       1 = Hill and Receptor data created
           by CTDM processors & read from
           HILL.DAT and HILLRCT.DAT files
       2 = Hill data created by OPTHILL &
           input below in Subgroup (6b);
           Receptor data in Subgroup (6c)

       Factor to convert horizontal dimensions  Default: 1.0   ! XHILL2M = 1.0 !
       to meters (MHILL=1)

       Factor to convert vertical dimensions    Default: 1.0   ! ZHILL2M = 1.0 !
       to meters (MHILL=1)

       X-origin of CTDM system relative to      No Default     ! XCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

       Y-origin of CTDM system relative to      No Default     ! YCTDMKM = 0 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

! END !

---------------
Subgroup (6b)
---------------

                      1 **
     HILL information


HILL           XC         YC       THETAH  ZGRID  RELIEF    EXPO 1    EXPO 2   SCALE 1    SCALE
2    AMAX1     AMAX2
 NO.           (km)       (km)       (deg.)    (m)      (m)       (m)        (m)        (m)
 (m)        (m)        (m)
----          ----       ----       ------  -----  ------    ------    ------   -------
-------    -----     -----

---------------
Subgroup (6c)
---------------

    COMPLEX TERRAIN RECEPTOR INFORMATION
```

```
                    XRCT         YRCT        ZRCT          XHH
                    (km)         (km)         (m)
                   ------       -----      ------         ----


------------------
1
     Description of Complex Terrain Variables:
          XC, YC  = Coordinates of center of hill
          THETAH  = Orientation of major axis of hill (clockwise from
                    North)
          ZGRID   = Height of the  0  of the grid above mean sea
                    level
          RELIEF  = Height of the crest of the hill above the grid elevation
          EXPO 1  = Hill-shape exponent for the major axis
          EXPO 2  = Hill-shape exponent for the major axis
          SCALE 1 = Horizontal length scale along the major axis
          SCALE 2 = Horizontal length scale along the minor axis
          AMAX    = Maximum allowed axis length for the major axis
          BMAX    = Maximum allowed axis length for the major axis

          XRCT, YRCT = Coordinates of the complex terrain receptors
          ZRCT    = Height of the ground (MSL) at the complex terrain
                    Receptor
          XHH     = Hill number associated with each complex terrain receptor
                    (NOTE: MUST BE ENTERED AS A REAL NUMBER)

   **
     NOTE: DATA for each hill and CTSG receptor are treated as a separate
           input subgroup and therefore must end with an input group terminator.

-------------------------------------------------------------------------------


INPUT GROUP: 7 -- Chemical parameters for dry deposition of gases
--------------

      SPECIES     DIFFUSIVITY      ALPHA STAR      REACTIVITY    MESOPHYLL RESISTANCE
      HENRY'S LAW COEFFICIENT
       NAME        (cm**2/s)                                          (s/cm)
       (dimensionless)
      -------     -----------      ----------      ----------    --------------------
      ------------------------
      ! SO2   =     0.1509,           1.0E3,           8.0,
      0.0,                        0.04   !  *SO2 default values
      ! NO    =     0.1656,            1.00,           8.0,
      5.0,                        3.50   !  *NOX default values
      ! NO2   =     0.1656,            1.00,           8.0,
      5.0,                        3.50   !  *NOX default values
      ! HNO3  =     0.1628,            1.00,          18.0,
      0.0,                     8.0E-8   !  *HNO3 default values
!END!

-------------------------------------------------------------------------------
```

```
INPUT GROUP: 8 -- Size parameters for dry deposition of particles
--------------

     For SINGLE SPECIES, the mean and standard deviation are used to
     compute a deposition velocity for NINT (see group 9) size-ranges,
     and these are then averaged to obtain a mean deposition velocity.

     For GROUPED SPECIES, the size distribution should be explicitly
     specified (by the 'species' in the group), and the standard deviation
     for each should be entered as 0.  The model will then use the
     deposition velocity for the stated mean diameter.

      SPECIES      GEOMETRIC MASS MEAN        GEOMETRIC STANDARD
       NAME             DIAMETER                   DEVIATION
                        (microns)                  (microns)
      -------      -------------------        ------------------

      ! SO4   =           0.48,                     2.00        !  *SO4 default values
      ! NO3   =           0.48,                     2.00        !  *NO3 default values

!END!

------------------------------------------------------------------------------


INPUT GROUP: 9 -- Miscellaneous dry deposition parameters
--------------

     Reference cuticle resistance (s/cm)
     (RCUTR)                          Default: 30    !  RCUTR = 30.0 !
     Reference ground resistance  (s/cm)
     (RGR)                            Default: 10    !    RGR = 10.0 !
     Reference pollutant reactivity
     (REACTR)                         Default: 8     ! REACTR =  8.0 !

     Number of particle-size intervals used to
     evaluate effective particle deposition velocity
     (NINT)                           Default: 9     !   NINT =   5  !

     Vegetation state in unirrigated areas
     (IVEG)                           Default: 1     !   IVEG =   1  !
        IVEG=1 for active and unstressed vegetation
        IVEG=2 for active and stressed vegetation
        IVEG=3 for inactive vegetation

!END!


------------------------------------------------------------------------------


INPUT GROUP: 10 -- Wet Deposition Parameters
--------------
```

Scavenging Coefficient -- Units: (sec)**(-1)

Pollutant	Liquid Precip.	Frozen Precip.

!END!

INPUT GROUP: 11a, 11b -- Chemistry Parameters

Subgroup (11a)

Several parameters are needed for one or more of the chemical transformation mechanisms. Those used for each mechanism are:

Mechanism (MCHEM)	MOZ	BCKO3	MNH3	MAVGNH3	BCKNH3	RNITE1	RNITE2	RNITE3	MH2O2	BCKH2O2	BCKPMF	OFRAC	VCNX	NDECAY
0 None	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1 MESOPUFF II	X	X	.	.	X	X	X	X	.	.	.	.	.	.
2 User Rates	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3 RIVAD	X	X	.	.	X	.	.	.	.	.	.	.	.	.
4 SOA	X	X	.	.	.	.	.	.	.	.	X	X	X	.
5 Radioactive Decay	.	.	.	.	.	.	.	.	.	.	.	.	.	X
6 RIVAD/ISORRPIA	X	X	X	X	X	X	.	.	X	X	.	.	.	.
7 RIVAD/ISORRPIA/SOA	X	X	X	X	X	X	.	.	X	X	X	X	.	.

Ozone data input option (MOZ)   Default: 1   ! MOZ = 0   !
(Used only if MCHEM = 1, 3, 4, 6, or 7)
   0 = use a monthly background ozone value
   1 = read hourly ozone concentrations from
       the OZONE.DAT data file

Monthly ozone concentrations in ppb (BCKO3)
(Used only if MCHEM = 1,3,4,6, or 7 and either
   MOZ = 0, or
   MOZ = 1 and all hourly O3 data missing)
                              Default: 12*80.
! BCKO3 = 32.0, 34.0, 37.0, 38.0, 32.0, 26.0, 23.0, 21.0, 23.0, 25.0, 28.0, 31.0 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background Concentrations
----

```
 Ammonia data option (MNH3)        Default: 0            ! MNH3 =  0   !
 (Used only if MCHEM = 6 or 7)
    0 = use monthly background ammonia values (BCKNH3) - no vertical variation
    1 = read monthly background ammonia values for each layer from
        the NH3Z.DAT data file

 Ammonia vertical averaging option (MAVGNH3)
 (Used only if MCHEM = 6 or 7, and MNH3 = 1)
    0 = use NH3 at puff center height (no averaging is done)
    1 = average NH3 values over vertical extent of puff
                                   Default: 1            ! MAVGNH3 =  1   !

 Monthly ammonia concentrations in ppb (BCKNH3)
 (Used only if MCHEM = 1 or 3, or
           if MCHEM = 6 or 7, and MNH3 = 0)
                                   Default: 12*10.
 !  BCKNH3 = 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

 Nighttime SO2 loss rate in %/hour (RNITE1)
 (Used only if MCHEM = 1, 6 or 7)
 This rate is used only at night for MCHEM=1
 and is added to the computed rate both day
 and night for MCHEM=6,7 (heterogeneous reactions)
                                   Default: 0.2          ! RNITE1 = 0.2 !

 Nighttime NOx loss rate in %/hour (RNITE2)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE2 = 2.0 !

 Nighttime HNO3 formation rate in %/hour (RNITE3)
 (Used only if MCHEM = 1)
                                   Default: 2.0          ! RNITE3 = 2.0 !

 H2O2 data input option (MH2O2)    Default: 1            ! MH2O2 =  0   !
 (Used only if MCHEM = 6 or 7, and MAQCHEM = 1)
    0 = use a monthly background H2O2 value
    1 = read hourly H2O2 concentrations from
        the H2O2.DAT data file

 Monthly H2O2 concentrations in ppb (BCKH2O2)
 (Used only if MQACHEM = 1 and either
    MH2O2 = 0 or
    MH2O2 = 1 and all hourly H2O2 data missing)
                                   Default: 12*1.
 !  BCKH2O2 = 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
Concentrations
---------------------

--- Data for SECONDARY ORGANIC AEROSOL (SOA) Options
    (used only if MCHEM = 4 or 7)
```

The MCHEM = 4 SOA module uses monthly values of:
     Fine particulate concentration in ug/m^3 (BCKPMF)
     Organic fraction of fine particulate   (OFRAC)
     VOC / NOX ratio (after reaction)   (VCNX)

The MCHEM = 7 SOA module uses monthly values of:
     Fine particulate concentration in ug/m^3 (BCKPMF)
     Organic fraction of fine particulate   (OFRAC)

These characterize the air mass when computing
the formation of SOA from VOC emissions.
Typical values for several distinct air mass types are:

Month	1 Jan	2 Feb	3 Mar	4 Apr	5 May	6 Jun	7 Jul	8 Aug	9 Sep	10 Oct	11 Nov	12 Dec
Clean Continental												
BCKPMF	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
OFRAC	.15	.15	.20	.20	.20	.20	.20	.20	.20	.20	.20	.15
VCNX	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.
Clean Marine (surface)												
BCKPMF	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OFRAC	.25	.25	.30	.30	.30	.30	.30	.30	.30	.30	.30	.25
VCNX	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.	50.
Urban - low biogenic (controls present)												
BCKPMF	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.
OFRAC	.20	.20	.25	.25	.25	.25	.25	.25	.20	.20	.20	.20
VCNX	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
Urban - high biogenic (controls present)												
BCKPMF	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.	60.
OFRAC	.25	.25	.30	.30	.30	.55	.55	.55	.35	.35	.35	.25
VCNX	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
Regional Plume												
BCKPMF	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.
OFRAC	.20	.20	.25	.35	.25	.40	.40	.40	.30	.30	.30	.20
VCNX	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
Urban - no controls present												
BCKPMF	100.	100.	100.	100.	100.	100.	100.	100.	100.	100.	100.	100.
OFRAC	.30	.30	.35	.35	.35	.55	.55	.55	.35	.35	.35	.30
VCNX	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.

Default: Clean Continental
! BCKPMF = 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00 !
! OFRAC = 0.15, 0.15, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.15 !
! VCNX   = 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00 !

--- End Data for SECONDARY ORGANIC AEROSOL (SOA) Option

```
     Number of half-life decay specification blocks provided in Subgroup 11b
     (Used only if MCHEM = 5)
     (NDECAY)                                  Default: 0      ! NDECAY =  0   !

!END!


--------------
Subgroup (11b)
--------------

     Each species modeled may be assigned a decay half-life (sec), and the associated
     mass lost may be assigned to one or more other modeled species using a mass yield
     factor. This information is used only for MCHEM=5.

     Provide NDECAY blocks assigning the half-life for a parent species and mass yield
     factors for each child species (if any) produced by the decay.
     Set HALF_LIFE=0.0 for NO decay (infinite half-life).


                              a            b
        SPECIES      Half-Life   Mass Yield
         NAME          (sec)       Factor
        -------      ---------   ----------

     *   SPEC1   =    3600.,        -1.0   *    (Parent)
     *   SPEC2   =     -1.0,         0.0   *    (Child)
    *END*

--------
    a
     Specify a half life that is greater than or equal to zero for 1 parent species
     in each block, and set the yield factor for this species to -1
    b
     Specify a yield factor that is greater than or equal to zero for 1 or more child
     species in each block, and set the half-life for each of these species to -1

     NOTE: Assignments in each block are treated as a separate input
           subgroup and therefore must end with an input group terminator.
           If NDECAY=0, no assignments and input group terminators should appear.

-------------------------------------------------------------------------------


INPUT GROUP: 12 -- Misc. Dispersion and Computational Parameters
---------------

     Horizontal size of puff (m) beyond which
     time-dependent dispersion equations (Heffter)
     are used to determine sigma-y and
     sigma-z (SYTDEP)                          Default: 550.   ! SYTDEP = 550. !

     Switch for using Heffter equation for sigma z
     as above (0 = Not use Heffter; 1 = use Heffter
```

```
(MHFTSZ)                                  Default: 0      ! MHFTSZ =  0   !

Stability class used to determine plume
growth rates for puffs above the boundary
layer (JSUP)                              Default: 5      ! JSUP =  5   !

Vertical dispersion constant for stable
conditions (k1 in Eqn. 2.7-3)  (CONK1)    Default: 0.01   ! CONK1 = 0.01 !

Vertical dispersion constant for neutral/
unstable conditions (k2 in Eqn. 2.7-4)
(CONK2)                                   Default: 0.1    ! CONK2 = 0.1 !

Factor for determining Transition-point from
Schulman-Scire to Huber-Snyder Building Downwash
scheme (SS used for Hs < Hb + TBD * HL)
(TBD)                                     Default: 0.5    ! TBD = 0.5 !
   TBD < 0   ==> always use Huber-Snyder
   TBD = 1.5 ==> always use Schulman-Scire
   TBD = 0.5 ==> ISC Transition-point

Range of land use categories for which
urban dispersion is assumed
(IURB1, IURB2)                            Default: 10     ! IURB1 =  10  !
                                                   19     ! IURB2 =  19  !

Site characterization parameters for single-point Met data files ---------
(needed for METFM = 2,3,4,5)

   Land use category for modeling domain
   (ILANDUIN)                             Default: 20     ! ILANDUIN =  20 !

   Roughness length (m) for modeling domain
   (Z0IN)                                 Default: 0.25   ! Z0IN =  0.25 !

   Leaf area index for modeling domain
   (XLAIIN)                               Default: 3.0    ! XLAIIN = 3.0 !

   Elevation above sea level (m)
   (ELEVIN)                               Default: 0.0    ! ELEVIN = 0.0 !

   Latitude (degrees) for met location
   (XLATIN)                               Default: -999.  ! XLATIN = -999. !

   Longitude (degrees) for met location
   (XLONIN)                               Default: -999.  ! XLONIN = -999. !

Specialized information for interpreting single-point Met data files -----

   Anemometer height (m) (Used only if METFM = 2,3)
   (ANEMHT)                               Default: 10.    ! ANEMHT = 10.0 !

   Form of lateral turbulance data in PROFILE.DAT file
   (Used only if METFM = 4,5 or MTURBVW = 1 or 3)
   (ISIGMAV)                              Default: 1      ! ISIGMAV =   1 !
```

```
       0 = read sigma-theta
       1 = read sigma-v

   Choice of mixing heights (Used only if METFM = 4)
   (IMIXCTDM)                              Default: 0      ! IMIXCTDM =  0 !
       0 = read PREDICTED mixing heights
       1 = read OBSERVED mixing heights

Maximum length of a slug (met. grid units)
(XMXLEN)                                   Default: 1.0    ! XMXLEN =  1.0 !

Maximum travel distance of a puff/slug (in
grid units) during one sampling step
(XSAMLEN)                                  Default: 1.0    ! XSAMLEN = 1.0 !

Maximum Number of slugs/puffs release from
one source during one time step
(MXNEW)                                    Default: 99     ! MXNEW =  99   !

Maximum Number of sampling steps for
one puff/slug during one time step
(MXSAM)                                    Default: 99     ! MXSAM =  99   !

Number of iterations used when computing
the transport wind for a sampling step
that includes gradual rise (for CALMET
and PROFILE winds)
(NCOUNT)                                   Default: 2      ! NCOUNT =  2  !

Minimum sigma y for a new puff/slug (m)
(SYMIN)                                    Default: 1.0    ! SYMIN = 1.0  !

Minimum sigma z for a new puff/slug (m)
(SZMIN)                                    Default: 1.0    ! SZMIN = 1.0  !

Maximum sigma z (m) allowed to avoid
numerical problem in calculating virtual
time or distance.  Cap should be large
enough to have no influence on normal events.
Enter a negative cap to disable.
(SZCAP_M)                                  Default: 5.0E06 ! SZCAP_M = 5.0E06 !

Default minimum turbulence velocities sigma-v and sigma-w
for each stability class over land and over water (m/s)
(SVMIN(12) and SWMIN(12))

                ----------  LAND  ----------       ---------  WATER  ----------
   Stab Class :  A    B    C    D    E    F         A    B    C    D    E    F
                ---  ---  ---  ---  ---  ---       ---  ---  ---  ---  ---  ---
Default SVMIN : .50, .50, .50, .50, .50, .50,      .37, .37, .37, .37, .37, .37
Default SWMIN : .20, .12, .08, .06, .03, .016,     .20, .12, .08, .06, .03, .016

      ! SVMIN = 0.500, 0.500, 0.500, 0.500, 0.500, 0.500, 0.370, 0.370, 0.370, 0.370,
      0.370, 0.370!
      ! SWMIN = 0.200, 0.120, 0.080, 0.060, 0.030, 0.016, 0.200, 0.120, 0.080, 0.060,
```

```
      0.030, 0.016!

Divergence criterion for dw/dz across puff
used to initiate adjustment for horizontal
convergence (1/s)
Partial adjustment starts at CDIV(1), and
full adjustment is reached at CDIV(2)
(CDIV(2))                              Default: 0.0,0.0  ! CDIV = 0.0, 0.0 !

Search radius (number of cells) for nearest
land and water cells used in the subgrid
TIBL module
(NLUTIBL)                              Default: 4      ! NLUTIBL =  4  !

Minimum wind speed (m/s) allowed for
non-calm conditions. Also used as minimum
speed returned when using power-law
extrapolation toward surface
(WSCALM)                               Default: 0.5    ! WSCALM = 0.5 !

Maximum mixing height (m)
(XMAXZI)                               Default: 3000.  ! XMAXZI = 3000.0 !

Minimum mixing height (m)
(XMINZI)                               Default: 50.    ! XMINZI = 50. !

Default wind speed classes --
5 upper bounds (m/s) are entered;
the 6th class has no upper limit
(WSCAT(5))                    Default   :
                              ISC RURAL : 1.54, 3.09, 5.14, 8.23, 10.80 (10.8+)

                        Wind Speed Class :  1     2     3     4     5
                                           ---   ---   ---   ---   ---
                                  ! WSCAT = 1.54, 3.09, 5.14, 8.23, 10.80 !

Default wind speed profile power-law
exponents for stabilities 1-6
(PLX0(6))                     Default   : ISC RURAL values
                              ISC RURAL : .07, .07, .10, .15, .35, .55
                              ISC URBAN : .15, .15, .20, .25, .30, .30

                         Stability Class :  A     B     C     D     E     F
                                           ---   ---   ---   ---   ---   ---
                                     ! PLX0 = 0.07, 0.07, 0.10, 0.15, 0.35, 0.55 !

Default potential temperature gradient
for stable classes E, F (degK/m)
(PTG0(2))                     Default:    0.020,   0.035
                                 ! PTG0 = 0.020,   0.035 !

Default plume path coefficients for
each stability class (used when option
for partial plume height terrain adjustment
is selected -- MCTADJ=3)
```

```
(PPC(6))                  Stability Class :  A     B     C     D     E     F
                             Default  PPC : .50,  .50,  .50,  .50,  .35,  .35
                                           ---   ---   ---   ---   ---   ---
                                    !  PPC = 0.50, 0.50, 0.50, 0.50, 0.35, 0.35 !

Slug-to-puff transition criterion factor
equal to sigma-y/length of slug
(SL2PF)                                Default: 10.        ! SL2PF = 10.0 !

Puff-splitting control variables ------------------------

  VERTICAL SPLIT
  --------------

  Number of puffs that result every time a puff
  is split - nsplit=2 means that 1 puff splits
  into 2
  (NSPLIT)                             Default:   3        ! NSPLIT =  3  !

  Time(s) of a day when split puffs are eligible to
  be split once again; this is typically set once
  per day, around sunset before nocturnal shear develops.
  24 values: 0 is midnight (00:00) and 23 is 11 PM (23:00)
  0=do not re-split    1=eligible for re-split
  (IRESPLIT(24))                       Default:  Hour 17 = 1
  !  IRESPLIT = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0 !

  Split is allowed only if last hour's mixing
  height (m) exceeds a minimum value
  (ZISPLIT)                            Default: 100.       ! ZISPLIT = 100.0 !

  Split is allowed only if ratio of last hour's
  mixing ht to the maximum mixing ht experienced
  by the puff is less than a maximum value (this
  postpones a split until a nocturnal layer develops)
  (ROLDMAX)                            Default: 0.25       ! ROLDMAX = 0.25 !


  HORIZONTAL SPLIT
  ----------------

  Number of puffs that result every time a puff
  is split - nsplith=5 means that 1 puff splits
  into 5
  (NSPLITH)                            Default:   5        ! NSPLITH =  5   !

  Minimum sigma-y (Grid Cells Units) of puff
  before it may be split
  (SYSPLITH)                           Default:  1.0       ! SYSPLITH = 1.0 !

  Minimum puff elongation rate (SYSPLITH/hr) due to
  wind shear, before it may be split
  (SHSPLITH)                           Default:  2.        ! SHSPLITH = 2.0 !

  Minimum concentration (g/m^3) of each
```

```
      species in puff before it may be split
      Enter array of NSPEC values; if a single value is
      entered, it will be used for ALL species
      (CNSPLITH)                        Default:  1.0E-07   ! CNSPLITH = 1.0E-07 !

    Integration control variables ------------------------

      Fractional convergence criterion for numerical SLUG
      sampling integration
      (EPSSLUG)                         Default:   1.0E-04  ! EPSSLUG =  1.0E-04 !

      Fractional convergence criterion for numerical AREA
      source integration
      (EPSAREA)                         Default:   1.0E-06  ! EPSAREA =  1.0E-06 !

      Trajectory step-length (m) used for numerical rise
      integration
      (DSRISE)                          Default:   1.0      ! DSRISE = 1.0 !

      Boundary Condition (BC) Puff control variables ------------------------

      Minimum height (m) to which BC puffs are mixed as they are emitted
      (MBCON=2 ONLY).  Actual height is reset to the current mixing height
      at the release point if greater than this minimum.
      (HTMINBC)                         Default:   500.     ! HTMINBC = 500.0 !

      Search radius (km) about a receptor for sampling nearest BC puff.
      BC puffs are typically emitted with a spacing of one grid cell
      length, so the search radius should be greater than DGRIDKM.
      (RSAMPBC)                         Default:   10.      ! RSAMPBC = 10.0  !

      Near-Surface depletion adjustment to concentration profile used when
      sampling BC puffs?
      (MDEPBC)                          Default:   1        ! MDEPBC =  1  !
         0 = Concentration is NOT adjusted for depletion
         1 = Adjust Concentration for depletion

!END!


--------------------------------------------------------------------------------


INPUT GROUPS: 13a, 13b, 13c, 13d -- Point source parameters
---------------------------------

---------------
Subgroup (13a)
---------------

    Number of point sources with
    parameters provided below      (NPT1)  No default  !  NPT1 =   0  !

    Units used for point source
    emissions below                (IPTU)  Default: 1  !  IPTU =   1  !
```

```
        1 =       g/s
        2 =      kg/hr
        3 =      lb/hr
        4 =    tons/yr
        5 =    Odour Unit * m**3/s  (vol. flux of odour compound)
        6 =    Odour Unit * m**3/min
        7 =    metric tons/yr
        8 =    Bq/s  (Bq = becquerel = disintegrations/s)
        9 =    GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (13d)        (NSPT1) Default: 0  !  NSPT1 =  0  !

     Number of point sources with
     variable emission parameters
     provided in external file      (NPT2)  No default  !  NPT2  = 512 !

     (If NPT2 > 0, these point
     source emissions are read from
     the file: PTEMARB.DAT)

!END!

---------------
Subgroup (13b)
---------------
                                       a
          POINT SOURCE: CONSTANT DATA
          -----------------------------
                                                                              b           c
  Source       X          Y       Stack    Base     Stack    Exit  Exit    Bldg.  Emission
   No.     Coordinate Coordinate Height Elevation Diameter  Vel.  Temp.   Dwash   Rates
              (km)       (km)       (m)      (m)       (m)  (m/s) (deg. K)
  ------   ---------- ---------- ------  ------   -------- ----- -------- ----- --------



--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.

     SRCNAM  is a 12-character name for a source
              (No default)
     X       is an array holding the source data listed by the column headings
              (No default)
     SIGYZI  is an array holding the initial sigma-y and sigma-z (m)
              (Default: 0.,0.)
     FMFAC   is a vertical momentum flux factor (0. or 1.0) used to represent
             the effect of rain-caps or other physical configurations that
             reduce momentum rise associated with the actual exit velocity.
             (Default: 1.0  -- full momentum used)
     ZPLTFM  is the platform height (m) for sources influenced by an isolated
             structure that has a significant open area between the surface
```

and the bulk of the structure, such as an offshore oil platform. The Base Elevation is that of the surface (ground or ocean), and the Stack Height is the release height above the Base (not above the platform). Building heights entered in Subgroup 13c must be those of the buildings on the platform, measured from the platform deck. ZPLTFM is used only with MBDW=1 (ISC downwash method) for sources with building downwash. (Default: 0.0)

b
0. = No building downwash modeled
1. = Downwash modeled for buildings resting on the surface
2. = Downwash modeled for buildings raised above the surface (ZPLTFM > 0.)
NOTE: must be entered as a REAL number (i.e., with decimal point)

c
An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IPTU (e.g. 1 for g/s).

Subgroup (13c)

BUILDING DIMENSION DATA FOR SOURCES SUBJECT TO DOWNWASH

Source No.	Effective building height, width, length and X/Y offset (in meters) every 10 degrees. LENGTH, XBADJ, and YBADJ are only needed for MBDW=2 (PRIME downwash option) [a]

---

a
Building height, width, length, and X/Y offset from the source are treated as a separate input subgroup for each source and therefore must end with an input group terminator. The X/Y offset is the position, relative to the stack, of the center of the upwind face of the projected building, with the x-axis pointing along the flow direction.

Subgroup (13d)

POINT SOURCE: VARIABLE EMISSIONS DATA [a]

Use this subgroup to describe temporal variations in the emission rates given in 13b. Factors entered multiply the rates in 13b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use PTEMARB.DAT and NPT2 > 0.

IVARY determines the type of variation, and is source-specific:

(IVARY) Default: 0

0 = Constant
1 = Diurnal cycle (24 scaling factors: hours 1-24)
2 = Monthly cycle (12 scaling factors: months 1-12)
3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 14a, 14b, 14c, 14d -- Area source parameters

Subgroup (14a)

Number of polygon area sources with parameters specified below (NAR1) No default ! NAR1 = 0 !

Units used for area source emissions below (IARU) Default: 1 ! IARU = 1 !

1 = g/m**2/s
2 = kg/m**2/hr
3 = lb/m**2/hr
4 = tons/m**2/yr
5 = Odour Unit * m/s (vol. flux/m**2 of odour compound)
6 = Odour Unit * m/min
7 = metric tons/m**2/yr
8 = Bq/m**2/s (Bq = becquerel = disintegrations/s)
9 = GBq/m**2/yr

Number of source-species combinations with variable emissions scaling factors provided below in (14d) (NSAR1) Default: 0 ! NSAR1 = 0 !

Number of buoyant polygon area sources with variable location and emission parameters (NAR2) No default ! NAR2 = 0 !

(If NAR2 > 0, ALL parameter data for
these sources are read from the file: BAEMARB.DAT)

!END!

Subgroup (14b)

---

a

AREA SOURCE: CONSTANT DATA

b

Source No.	Effect. Height (m)	Base Elevation (m)	Initial Sigma z (m)	Emission Rates
-------	------	------	--------	---------

---

a

Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

b

An emission rate must be entered for every pollutant modeled.
Enter emission rate of zero for secondary pollutants that are
modeled, but not emitted. Units are specified by IARU
(e.g. 1 for g/m**2/s).

Subgroup (14c)

COORDINATES (km) FOR EACH VERTEX(4) OF EACH POLYGON

Source No.	Ordered list of X followed by list of Y, grouped by source a
------	----------

---

a

Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

Subgroup (14d)

---

a

AREA SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission
rates given in 14b. Factors entered multiply the rates in 14b.
Skip sources here that have constant emissions. For more elaborate

variation in source parameters, use BAEMARB.DAT and NAR2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 = Constant
1 = Diurnal cycle (24 scaling factors: hours 1-24)
2 = Monthly cycle (12 scaling factors: months 1-12)
3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 15a, 15b, 15c -- Line source parameters

Subgroup (15a)

Number of buoyant line sources with variable location and emission parameters (NLN2) No default ! NLN2 = 0 !

(If NLN2 > 0, ALL parameter data for these sources are read from the file: LNEMARB.DAT)

Number of buoyant line sources (NLINES) No default ! NLINES = 0 !

Units used for line source emissions below (ILNU) Default: 1 ! ILNU = 1 !

1 = g/s
2 = kg/hr
3 = lb/hr
4 = tons/yr
5 = Odour Unit * m**3/s (vol. flux of odour compound)
6 = Odour Unit * m**3/min
7 = metric tons/yr
8 = Bq/s (Bq = becquerel = disintegrations/s)
9 = GBq/yr

Number of source-species
combinations with variable
emissions scaling factors
provided below in (15c) (NSLN1) Default: 0 ! NSLN1 = 0 !

Maximum number of segments used to model
each line (MXNSEG) Default: 7 ! MXNSEG = 7 !

The following variables are required only if NLINES > 0. They are
used in the buoyant line source plume rise calculations.

Number of distances at which transitional rise is computed Default: 6 ! NLRISE = 6 !

Average building length (XL) No default (in meters) ! XL = .0 !

Average building height (HBL) No default (in meters) ! HBL = .0 !

Average building width (WBL) No default (in meters) ! WBL = .0 !

Average line source width (WML) No default (in meters) ! WML = .0 !

Average separation between buildings (DXL) No default (in meters) ! DXL = .0 !

Average buoyancy parameter (FPRIMEL) No default (in m**4/s**3) ! FPRIMEL = .0 !

!END!

Subgroup (15b)

BUOYANT LINE SOURCE: CONSTANT DATA

Source No.	Beg. X Coordinate (km)	Beg. Y Coordinate (km)	End. X Coordinate (km)	End. Y Coordinate (km)	Release Height (m)	Base Elevation (m)	Emission Rates[a]

---

a
Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled.
Enter emission rate of zero for secondary pollutants that are

modeled, but not emitted. Units are specified by ILNTU
(e.g. 1 for g/s).

Subgroup (15c)

BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---
[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters

Subgroup (16a)

Number of volume sources with parameters provided in 16b,c (NVL1) No default ! NVL1 = 0 !

Units used for volume source emissions below in 16b (IVLU) Default: 1 ! IVLU = 1 !

- 1 = g/s
- 2 = kg/hr
- 3 = lb/hr

```
          4 =     tons/yr
          5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
          6 =     Odour Unit * m**3/min
          7 =     metric tons/yr
          8 =     Bq/s  (Bq = becquerel = disintegrations/s)
          9 =     GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (16c)      (NSVL1)    Default: 0  !  NSVL1 =  0  !

     Number of volume sources with
     variable location and emission
     parameters                   (NVL2)     No default  !  NVL2  =  1  !

     (If NVL2 > 0, ALL parameter data for
      these sources are read from the VOLEMARB.DAT file(s) )

!END!

---------------
Subgroup (16b)
---------------
                                        a
           VOLUME SOURCE: CONSTANT DATA
           ----------------------------
                                                                          b
         X           Y        Effect.    Base     Initial    Initial    Emission
     Coordinate  Coordinate   Height   Elevation  Sigma y    Sigma z     Rates
        (km)        (km)        (m)       (m)        (m)        (m)
     ----------  ----------   ------    ------    --------   --------   --------



--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.

    b
     An emission rate must be entered for every pollutant modeled.
     Enter emission rate of zero for secondary pollutants that are
     modeled, but not emitted.  Units are specified by IVLU
     (e.g. 1 for g/s).

---------------
Subgroup (16c)
---------------
                                                 a
           VOLUME SOURCE: VARIABLE EMISSIONS DATA
           --------------------------------------

     Use this subgroup to describe temporal variations in the emission
     rates given in 16b.  Factors entered multiply the rates in 16b.
     Skip sources here that have constant emissions.  For more elaborate
```

variation in source parameters, use VOLEMARB.DAT and NVL2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 = Constant
1 = Diurnal cycle (24 scaling factors: hours 1-24)
2 = Monthly cycle (12 scaling factors: months 1-12)
3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information

---

Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 4040 !

!END!

Subgroup (17b)

---

a
NON-GRIDDED (DISCRETE) RECEPTOR DATA

Receptor No.	X Coordinate (km)	Y Coordinate (km)	Ground Elevation (m)	b Height Above Ground (m)		
DSC0001	X = 651.8752,	6087.999,	469.251,	0 !	!END!	CABIN_01
DSC0002	X = 651.8900,	6087.983,	469.535,	0 !	!END!	CABIN_02
DSC0003	X = 652.0015,	6087.882,	471.464,	0 !	!END!	CABIN_03
DSC0004	X = 652.1537,	6087.803,	468.172,	0 !	!END!	CABIN_04
DSC0005	X = 652.2349,	6087.710,	468.000,	0 !	!END!	CABIN_05
DSC0006	X = 652.2907,	6087.660,	468.000,	0 !	!END!	CABIN_06

```
DSC0007 ! X =   652.4793,   6087.518,    468.005,    0 !   !END!  CABIN_07
DSC0008 ! X =   652.5193,   6087.450,    468.321,    0 !   !END!  CABIN_08
DSC0009 ! X =   652.5733,   6087.381,    468.013,    0 !   !END!  CABIN_09
DSC0010 ! X =   652.6302,   6087.358,    468.000,    0 !   !END!  CABIN_10
DSC0011 ! X =   652.7350,   6087.279,    469.178,    0 !   !END!  CABIN_11
DSC0012 ! X =   652.8230,   6087.281,    468.000,    0 !   !END!  CABIN_12
DSC0013 ! X =   652.8327,   6087.143,    472.445,    0 !   !END!  CABIN_13
DSC0014 ! X =   652.8339,   6087.241,    468.000,    0 !   !END!  CABIN_14
DSC0015 ! X =   652.8504,   6087.199,    468.016,    0 !   !END!  CABIN_15
DSC0016 ! X =   652.8937,   6087.144,    468.000,    0 !   !END!  CABIN_16
DSC0017 ! X =   652.9159,   6087.060,    468.149,    0 !   !END!  CABIN_17
DSC0018 ! X =   652.9328,   6087.065,    468.000,    0 !   !END!  CABIN_18
DSC0019 ! X =   652.9407,   6087.034,    468.109,    0 !   !END!  CABIN_19
DSC0020 ! X =   653.0317,   6085.621,    513.993,    0 !   !END!  CABIN_20
DSC0021 ! X =   653.0557,   6086.890,    468.000,    0 !   !END!  CABIN_21
DSC0022 ! X =   653.1339,   6086.705,    468.000,    0 !   !END!  CABIN_22
DSC0023 ! X =   653.1464,   6086.675,    468.000,    0 !   !END!  CABIN_23
DSC0024 ! X =   653.1622,   6086.632,    468.000,    0 !   !END!  CABIN_24
DSC0025 ! X =   653.1769,   6085.988,    485.576,    0 !   !END!  CABIN_25
DSC0026 ! X =   653.2250,   6086.491,    468.000,    0 !   !END!  CABIN_26
DSC0027 ! X =   653.3070,   6086.343,    468.000,    0 !   !END!  CABIN_27
DSC0028 ! X =   653.3532,   6086.238,    468.000,    0 !   !END!  CABIN_28
DSC0029 ! X =   653.3660,   6086.207,    468.000,    0 !   !END!  CABIN_29
DSC0030 ! X =   653.3946,   6086.134,    468.000,    0 !   !END!  CABIN_30
DSC0031 ! X =   653.4201,   6086.071,    468.000,    0 !   !END!  CABIN_31
DSC0032 ! X =   653.4377,   6085.998,    468.300,    0 !   !END!  CABIN_32
DSC0033 ! X =   653.4442,   6085.973,    468.785,    0 !   !END!  CABIN_33
DSC0034 ! X =   653.4481,   6085.951,    469.447,    0 !   !END!  CABIN_34
DSC0035 ! X =   653.4508,   6085.921,    469.886,    0 !   !END!  CABIN_35
DSC0036 ! X =   653.4687,   6085.904,    468.590,    0 !   !END!  CABIN_36
DSC0037 ! X =   653.4748,   6085.880,    468.286,    0 !   !END!  CABIN_37
DSC0038 ! X =   653.8322,   6085.702,    468.000,    0 !   !END!  CABIN_38
DSC0039 ! X =   653.8806,   6085.850,    468.413,    0 !   !END!  CABIN_39
DSC0040 ! X =   653.8960,   6085.855,    468.222,    0 !   !END!  CABIN_40
DSC0041 ! X =   653.8961,   6085.839,    468.922,    0 !   !END!  CABIN_41
DSC0042 ! X =   653.9998,   6085.854,    468.453,    0 !   !END!  CABIN_42
DSC0043 ! X =   654.0457,   6087.626,    468.000,    0 !   !END!  CABIN_43
DSC0044 ! X =   654.0844,   6085.794,    469.243,    0 !   !END!  CABIN_44
DSC0045 ! X =   654.1211,   6085.745,    470.338,    0 !   !END!  CABIN_45
DSC0046 ! X =   654.1733,   6085.688,    471.093,    0 !   !END!  CABIN_46
DSC0047 ! X =   654.2477,   6085.626,    468.569,    0 !   !END!  CABIN_47
DSC0048 ! X =   654.3663,   6087.039,    468.077,    0 !   !END!  CABIN_48
DSC0049 ! X =   654.3874,   6085.520,    468.906,    0 !   !END!  CABIN_49
DSC0050 ! X =   654.3876,   6085.460,    471.563,    0 !   !END!  CABIN_50
DSC0051 ! X =   654.4009,   6085.428,    471.477,    0 !   !END!  CABIN_51
DSC0052 ! X =   654.4353,   6085.396,    469.314,    0 !   !END!  CABIN_52
DSC0053 ! X =   654.4567,   6085.355,    469.115,    0 !   !END!  CABIN_53
DSC0054 ! X =   654.5008,   6085.281,    469.764,    0 !   !END!  CABIN_54
DSC0055 ! X =   654.6601,   6085.161,    468.706,    0 !   !END!  CABIN_55
DSC0056 ! X =   654.7204,   6085.094,    468.343,    0 !   !END!  CABIN_56
DSC0057 ! X =   657.3000,   6087.300,    506.690,    0 !   !END!  GR_M0001
DSC0058 ! X =   657.3500,   6087.300,    514.733,    0 !   !END!  GR_M0002
DSC0059 ! X =   657.4000,   6087.300,    521.293,    0 !   !END!  GR_M0003
DSC0060 ! X =   657.4500,   6087.300,    527.062,    0 !   !END!  GR_M0004
DSC0061 ! X =   657.5000,   6087.300,    531.232,    0 !   !END!  GR_M0005
```

```
DSC0062 ! X =   657.5500,   6087.300,    534.669,    0 !   !END!  GR_M0006
DSC0063 ! X =   657.6000,   6087.300,    537.514,    0 !   !END!  GR_M0007
DSC0064 ! X =   657.6500,   6087.300,    539.638,    0 !   !END!  GR_M0008
DSC0065 ! X =   657.7000,   6087.300,    540.142,    0 !   !END!  GR_M0009
DSC0066 ! X =   657.7500,   6087.300,    537.198,    0 !   !END!  GR_M0010
DSC0067 ! X =   657.8000,   6087.300,    537.619,    0 !   !END!  GR_M0011
DSC0068 ! X =   657.8500,   6087.300,    536.882,    0 !   !END!  GR_M0012
DSC0069 ! X =   657.9000,   6087.300,    536.917,    0 !   !END!  GR_M0013
DSC0070 ! X =   657.9500,   6087.300,    536.064,    0 !   !END!  GR_M0014
DSC0071 ! X =   658.0000,   6087.300,    536.112,    0 !   !END!  GR_M0015
DSC0072 ! X =   658.0500,   6087.300,    536.189,    0 !   !END!  GR_M0016
DSC0073 ! X =   658.1000,   6087.300,    537.000,    0 !   !END!  GR_M0017
DSC0074 ! X =   658.1500,   6087.300,    537.338,    0 !   !END!  GR_M0018
DSC0075 ! X =   658.2000,   6087.300,    537.414,    0 !   !END!  GR_M0019
DSC0076 ! X =   658.2500,   6087.300,    537.491,    0 !   !END!  GR_M0020
DSC0077 ! X =   658.3000,   6087.300,    538.568,    0 !   !END!  GR_M0021
DSC0078 ! X =   657.3000,   6087.350,    506.291,    0 !   !END!  GR_M0022
DSC0079 ! X =   657.3500,   6087.350,    513.394,    0 !   !END!  GR_M0023
DSC0080 ! X =   657.4000,   6087.350,    519.221,    0 !   !END!  GR_M0024
DSC0081 ! X =   657.4500,   6087.350,    524.037,    0 !   !END!  GR_M0025
DSC0082 ! X =   657.5000,   6087.350,    527.051,    0 !   !END!  GR_M0026
DSC0083 ! X =   657.5500,   6087.350,    529.111,    0 !   !END!  GR_M0027
DSC0084 ! X =   657.6000,   6087.350,    530.042,    0 !   !END!  GR_M0028
DSC0085 ! X =   657.6500,   6087.350,    531.272,    0 !   !END!  GR_M0029
DSC0086 ! X =   657.7000,   6087.350,    532.502,    0 !   !END!  GR_M0030
DSC0087 ! X =   657.7500,   6087.350,    532.155,    0 !   !END!  GR_M0031
DSC0088 ! X =   657.8000,   6087.350,    533.654,    0 !   !END!  GR_M0032
DSC0089 ! X =   657.8500,   6087.350,    533.726,    0 !   !END!  GR_M0033
DSC0090 ! X =   657.9000,   6087.350,    533.803,    0 !   !END!  GR_M0034
DSC0091 ! X =   657.9500,   6087.350,    533.880,    0 !   !END!  GR_M0035
DSC0092 ! X =   658.0000,   6087.350,    533.957,    0 !   !END!  GR_M0036
DSC0093 ! X =   658.0500,   6087.350,    535.027,    0 !   !END!  GR_M0037
DSC0094 ! X =   658.1000,   6087.350,    535.106,    0 !   !END!  GR_M0038
DSC0095 ! X =   658.1500,   6087.350,    536.182,    0 !   !END!  GR_M0039
DSC0096 ! X =   658.2000,   6087.350,    536.003,    0 !   !END!  GR_M0040
DSC0097 ! X =   658.2500,   6087.350,    536.336,    0 !   !END!  GR_M0041
DSC0098 ! X =   658.3000,   6087.350,    536.413,    0 !   !END!  GR_M0042
DSC0099 ! X =   657.3000,   6087.400,    504.395,    0 !   !END!  GR_M0043
DSC0100 ! X =   657.3500,   6087.400,    510.950,    0 !   !END!  GR_M0044
DSC0101 ! X =   657.4000,   6087.400,    517.200,    0 !   !END!  GR_M0045
DSC0102 ! X =   657.4500,   6087.400,    521.010,    0 !   !END!  GR_M0046
DSC0103 ! X =   657.5000,   6087.400,    523.841,    0 !   !END!  GR_M0047
DSC0104 ! X =   657.5500,   6087.400,    530.000,    0 !   !END!  GR_M0048
DSC0105 ! X =   657.6000,   6087.400,    530.000,    0 !   !END!  GR_M0049
DSC0106 ! X =   657.6500,   6087.400,    530.000,    0 !   !END!  GR_M0050
DSC0107 ! X =   657.7000,   6087.400,    530.000,    0 !   !END!  GR_M0051
DSC0108 ! X =   657.7500,   6087.400,    530.000,    0 !   !END!  GR_M0052
DSC0109 ! X =   657.8000,   6087.400,    530.998,    0 !   !END!  GR_M0053
DSC0110 ! X =   657.8500,   6087.400,    531.571,    0 !   !END!  GR_M0054
DSC0111 ! X =   657.9000,   6087.400,    531.648,    0 !   !END!  GR_M0055
DSC0112 ! X =   657.9500,   6087.400,    531.725,    0 !   !END!  GR_M0056
DSC0113 ! X =   658.0000,   6087.400,    531.802,    0 !   !END!  GR_M0057
DSC0114 ! X =   658.0500,   6087.400,    532.878,    0 !   !END!  GR_M0058
DSC0115 ! X =   658.1000,   6087.400,    533.619,    0 !   !END!  GR_M0059
DSC0116 ! X =   658.1500,   6087.400,    534.027,    0 !   !END!  GR_M0060
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DSC0117 ! X =   658.2000,   6087.400,    534.104,    0 !   !END!  GR_M0061
DSC0118 ! X =   658.2500,   6087.400,    534.181,    0 !   !END!  GR_M0062
DSC0119 ! X =   658.3000,   6087.400,    532.890,    0 !   !END!  GR_M0063
DSC0120 ! X =   657.3000,   6087.450,    501.499,    0 !   !END!  GR_M0064
DSC0121 ! X =   657.3500,   6087.450,    509.054,    0 !   !END!  GR_M0065
DSC0122 ! X =   657.4000,   6087.450,    515.179,    0 !   !END!  GR_M0066
DSC0123 ! X =   657.4500,   6087.450,    518.811,    0 !   !END!  GR_M0067
DSC0124 ! X =   657.5000,   6087.450,    530.000,    0 !   !END!  GR_M0068
DSC0125 ! X =   657.5500,   6087.450,    530.000,    0 !   !END!  GR_M0069
DSC0126 ! X =   657.6000,   6087.450,    530.000,    0 !   !END!  GR_M0070
DSC0127 ! X =   657.6500,   6087.450,    530.000,    0 !   !END!  GR_M0071
DSC0128 ! X =   657.7000,   6087.450,    530.000,    0 !   !END!  GR_M0072
DSC0129 ! X =   657.7500,   6087.450,    530.000,    0 !   !END!  GR_M0073
DSC0130 ! X =   657.8000,   6087.450,    530.000,    0 !   !END!  GR_M0074
DSC0131 ! X =   657.8500,   6087.450,    530.000,    0 !   !END!  GR_M0075
DSC0132 ! X =   657.9000,   6087.450,    530.000,    0 !   !END!  GR_M0076
DSC0133 ! X =   657.9500,   6087.450,    530.000,    0 !   !END!  GR_M0077
DSC0134 ! X =   658.0000,   6087.450,    530.000,    0 !   !END!  GR_M0078
DSC0135 ! X =   658.0500,   6087.450,    530.446,    0 !   !END!  GR_M0079
DSC0136 ! X =   658.1000,   6087.450,    530.600,    0 !   !END!  GR_M0080
DSC0137 ! X =   658.1500,   6087.450,    530.744,    0 !   !END!  GR_M0081
DSC0138 ! X =   658.2000,   6087.450,    530.846,    0 !   !END!  GR_M0082
DSC0139 ! X =   658.2500,   6087.450,    530.061,    0 !   !END!  GR_M0083
DSC0140 ! X =   658.3000,   6087.450,    530.000,    0 !   !END!  GR_M0084
DSC0141 ! X =   657.3000,   6087.500,    499.095,    0 !   !END!  GR_M0085
DSC0142 ! X =   657.3500,   6087.500,    507.168,    0 !   !END!  GR_M0086
DSC0143 ! X =   657.4000,   6087.500,    512.723,    0 !   !END!  GR_M0087
DSC0144 ! X =   657.4500,   6087.500,    530.000,    0 !   !END!  GR_M0088
DSC0145 ! X =   657.5000,   6087.500,    530.000,    0 !   !END!  GR_M0089
DSC0146 ! X =   657.5500,   6087.500,    530.000,    0 !   !END!  GR_M0090
DSC0147 ! X =   657.6000,   6087.500,    530.000,    0 !   !END!  GR_M0091
DSC0148 ! X =   657.6500,   6087.500,    530.000,    0 !   !END!  GR_M0092
DSC0149 ! X =   657.7000,   6087.500,    530.000,    0 !   !END!  GR_M0093
DSC0150 ! X =   657.7500,   6087.500,    530.000,    0 !   !END!  GR_M0094
DSC0151 ! X =   657.8000,   6087.500,    530.000,    0 !   !END!  GR_M0095
DSC0152 ! X =   657.8500,   6087.500,    530.000,    0 !   !END!  GR_M0096
DSC0153 ! X =   657.9000,   6087.500,    530.000,    0 !   !END!  GR_M0097
DSC0154 ! X =   657.9500,   6087.500,    530.000,    0 !   !END!  GR_M0098
DSC0155 ! X =   658.0000,   6087.500,    530.000,    0 !   !END!  GR_M0099
DSC0156 ! X =   658.0500,   6087.500,    530.000,    0 !   !END!  GR_M0100
DSC0157 ! X =   658.1000,   6087.500,    530.000,    0 !   !END!  GR_M0101
DSC0158 ! X =   658.1500,   6087.500,    530.000,    0 !   !END!  GR_M0102
DSC0159 ! X =   658.2000,   6087.500,    530.000,    0 !   !END!  GR_M0103
DSC0160 ! X =   658.2500,   6087.500,    530.000,    0 !   !END!  GR_M0104
DSC0161 ! X =   658.3000,   6087.500,    530.000,    0 !   !END!  GR_M0105
DSC0162 ! X =   657.3000,   6087.550,    498.037,    0 !   !END!  GR_M0106
DSC0163 ! X =   657.3500,   6087.550,    505.960,    0 !   !END!  GR_M0107
DSC0164 ! X =   657.4000,   6087.550,    522.787,    0 !   !END!  GR_M0108
DSC0165 ! X =   657.4500,   6087.550,    530.000,    0 !   !END!  GR_M0109
DSC0166 ! X =   657.5000,   6087.550,    530.000,    0 !   !END!  GR_M0110
DSC0167 ! X =   657.5500,   6087.550,    530.000,    0 !   !END!  GR_M0111
DSC0168 ! X =   657.6000,   6087.550,    530.000,    0 !   !END!  GR_M0112
DSC0169 ! X =   657.6500,   6087.550,    530.000,    0 !   !END!  GR_M0113
DSC0170 ! X =   657.7000,   6087.550,    530.000,    0 !   !END!  GR_M0114
DSC0171 ! X =   657.7500,   6087.550,    530.000,    0 !   !END!  GR_M0115
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DSC0172 ! X =   657.8000,   6087.550,    530.000,    0 !   !END!  GR_M0116
DSC0173 ! X =   657.8500,   6087.550,    530.000,    0 !   !END!  GR_M0117
DSC0174 ! X =   657.9000,   6087.550,    530.000,    0 !   !END!  GR_M0118
DSC0175 ! X =   657.9500,   6087.550,    530.000,    0 !   !END!  GR_M0119
DSC0176 ! X =   658.0000,   6087.550,    530.000,    0 !   !END!  GR_M0120
DSC0177 ! X =   658.0500,   6087.550,    530.000,    0 !   !END!  GR_M0121
DSC0178 ! X =   658.1000,   6087.550,    530.000,    0 !   !END!  GR_M0122
DSC0179 ! X =   658.1500,   6087.550,    530.000,    0 !   !END!  GR_M0123
DSC0180 ! X =   658.2000,   6087.550,    530.000,    0 !   !END!  GR_M0124
DSC0181 ! X =   658.2500,   6087.550,    530.000,    0 !   !END!  GR_M0125
DSC0182 ! X =   658.3000,   6087.550,    508.334,    0 !   !END!  GR_M0126
DSC0183 ! X =   657.3000,   6087.600,    495.642,    0 !   !END!  GR_M0127
DSC0184 ! X =   657.3500,   6087.600,    515.258,    0 !   !END!  GR_M0128
DSC0185 ! X =   657.4000,   6087.600,    530.000,    0 !   !END!  GR_M0129
DSC0186 ! X =   657.4500,   6087.600,    530.000,    0 !   !END!  GR_M0130
DSC0187 ! X =   657.5000,   6087.600,    530.000,    0 !   !END!  GR_M0131
DSC0188 ! X =   657.5500,   6087.600,    530.000,    0 !   !END!  GR_M0132
DSC0189 ! X =   657.6000,   6087.600,    530.000,    0 !   !END!  GR_M0133
DSC0190 ! X =   657.6500,   6087.600,    530.000,    0 !   !END!  GR_M0134
DSC0191 ! X =   657.7000,   6087.600,    530.000,    0 !   !END!  GR_M0135
DSC0192 ! X =   657.7500,   6087.600,    530.000,    0 !   !END!  GR_M0136
DSC0193 ! X =   657.8000,   6087.600,    530.000,    0 !   !END!  GR_M0137
DSC0194 ! X =   657.8500,   6087.600,    530.000,    0 !   !END!  GR_M0138
DSC0195 ! X =   657.9000,   6087.600,    530.000,    0 !   !END!  GR_M0139
DSC0196 ! X =   657.9500,   6087.600,    530.000,    0 !   !END!  GR_M0140
DSC0197 ! X =   658.0000,   6087.600,    530.000,    0 !   !END!  GR_M0141
DSC0198 ! X =   658.0500,   6087.600,    530.000,    0 !   !END!  GR_M0142
DSC0199 ! X =   658.1000,   6087.600,    530.000,    0 !   !END!  GR_M0143
DSC0200 ! X =   658.1500,   6087.600,    530.000,    0 !   !END!  GR_M0144
DSC0201 ! X =   658.2000,   6087.600,    530.000,    0 !   !END!  GR_M0145
DSC0202 ! X =   658.2500,   6087.600,    530.000,    0 !   !END!  GR_M0146
DSC0203 ! X =   658.3000,   6087.600,    501.120,    0 !   !END!  GR_M0147
DSC0204 ! X =   657.3000,   6087.650,    507.730,    0 !   !END!  GR_M0148
DSC0205 ! X =   657.3500,   6087.650,    528.977,    0 !   !END!  GR_M0149
DSC0206 ! X =   657.4000,   6087.650,    530.000,    0 !   !END!  GR_M0150
DSC0207 ! X =   657.4500,   6087.650,    530.000,    0 !   !END!  GR_M0151
DSC0208 ! X =   657.5000,   6087.650,    530.000,    0 !   !END!  GR_M0152
DSC0209 ! X =   657.5500,   6087.650,    530.000,    0 !   !END!  GR_M0153
DSC0210 ! X =   657.6000,   6087.650,    530.000,    0 !   !END!  GR_M0154
DSC0211 ! X =   657.6500,   6087.650,    530.000,    0 !   !END!  GR_M0155
DSC0212 ! X =   657.7000,   6087.650,    530.000,    0 !   !END!  GR_M0156
DSC0213 ! X =   657.7500,   6087.650,    530.000,    0 !   !END!  GR_M0157
DSC0214 ! X =   657.8000,   6087.650,    530.000,    0 !   !END!  GR_M0158
DSC0215 ! X =   657.8500,   6087.650,    530.000,    0 !   !END!  GR_M0159
DSC0216 ! X =   657.9000,   6087.650,    530.000,    0 !   !END!  GR_M0160
DSC0217 ! X =   657.9500,   6087.650,    530.000,    0 !   !END!  GR_M0161
DSC0218 ! X =   658.0000,   6087.650,    530.000,    0 !   !END!  GR_M0162
DSC0219 ! X =   658.0500,   6087.650,    530.000,    0 !   !END!  GR_M0163
DSC0220 ! X =   658.1000,   6087.650,    530.000,    0 !   !END!  GR_M0164
DSC0221 ! X =   658.1500,   6087.650,    530.000,    0 !   !END!  GR_M0165
DSC0222 ! X =   658.2000,   6087.650,    530.000,    0 !   !END!  GR_M0166
DSC0223 ! X =   658.2500,   6087.650,    500.266,    0 !   !END!  GR_M0167
DSC0224 ! X =   658.3000,   6087.650,    497.198,    0 !   !END!  GR_M0168
DSC0225 ! X =   657.3000,   6087.700,    521.449,    0 !   !END!  GR_M0169
DSC0226 ! X =   657.3500,   6087.700,    530.000,    0 !   !END!  GR_M0170
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DSC0227 ! X =   657.4000,   6087.700,    530.000,    0 !   !END!  GR_M0171
DSC0228 ! X =   657.4500,   6087.700,    530.000,    0 !   !END!  GR_M0172
DSC0229 ! X =   657.5000,   6087.700,    530.000,    0 !   !END!  GR_M0173
DSC0230 ! X =   657.5500,   6087.700,    530.000,    0 !   !END!  GR_M0174
DSC0231 ! X =   657.6000,   6087.700,    530.000,    0 !   !END!  GR_M0175
DSC0232 ! X =   657.6500,   6087.700,    530.000,    0 !   !END!  GR_M0176
DSC0233 ! X =   657.7000,   6087.700,    530.000,    0 !   !END!  GR_M0177
DSC0234 ! X =   657.7500,   6087.700,    530.000,    0 !   !END!  GR_M0178
DSC0235 ! X =   657.8000,   6087.700,    530.000,    0 !   !END!  GR_M0179
DSC0236 ! X =   657.8500,   6087.700,    530.000,    0 !   !END!  GR_M0180
DSC0237 ! X =   657.9000,   6087.700,    530.000,    0 !   !END!  GR_M0181
DSC0238 ! X =   657.9500,   6087.700,    530.000,    0 !   !END!  GR_M0182
DSC0239 ! X =   658.0000,   6087.700,    530.000,    0 !   !END!  GR_M0183
DSC0240 ! X =   658.0500,   6087.700,    530.000,    0 !   !END!  GR_M0184
DSC0241 ! X =   658.1000,   6087.700,    530.000,    0 !   !END!  GR_M0185
DSC0242 ! X =   658.1500,   6087.700,    530.000,    0 !   !END!  GR_M0186
DSC0243 ! X =   658.2000,   6087.700,    522.196,    0 !   !END!  GR_M0187
DSC0244 ! X =   658.2500,   6087.700,    496.749,    0 !   !END!  GR_M0188
DSC0245 ! X =   658.3000,   6087.700,    493.909,    0 !   !END!  GR_M0189
DSC0246 ! X =   657.3000,   6087.750,    518.473,    0 !   !END!  GR_M0190
DSC0247 ! X =   657.3500,   6087.750,    530.000,    0 !   !END!  GR_M0191
DSC0248 ! X =   657.4000,   6087.750,    530.000,    0 !   !END!  GR_M0192
DSC0249 ! X =   657.4500,   6087.750,    530.000,    0 !   !END!  GR_M0193
DSC0250 ! X =   657.5000,   6087.750,    530.000,    0 !   !END!  GR_M0194
DSC0251 ! X =   657.5500,   6087.750,    530.000,    0 !   !END!  GR_M0195
DSC0252 ! X =   657.6000,   6087.750,    530.000,    0 !   !END!  GR_M0196
DSC0253 ! X =   657.6500,   6087.750,    530.000,    0 !   !END!  GR_M0197
DSC0254 ! X =   657.7000,   6087.750,    530.000,    0 !   !END!  GR_M0198
DSC0255 ! X =   657.7500,   6087.750,    530.000,    0 !   !END!  GR_M0199
DSC0256 ! X =   657.8000,   6087.750,    530.000,    0 !   !END!  GR_M0200
DSC0257 ! X =   657.8500,   6087.750,    530.000,    0 !   !END!  GR_M0201
DSC0258 ! X =   657.9000,   6087.750,    530.000,    0 !   !END!  GR_M0202
DSC0259 ! X =   657.9500,   6087.750,    530.000,    0 !   !END!  GR_M0203
DSC0260 ! X =   658.0000,   6087.750,    530.000,    0 !   !END!  GR_M0204
DSC0261 ! X =   658.0500,   6087.750,    530.000,    0 !   !END!  GR_M0205
DSC0262 ! X =   658.1000,   6087.750,    530.000,    0 !   !END!  GR_M0206
DSC0263 ! X =   658.1500,   6087.750,    522.760,    0 !   !END!  GR_M0207
DSC0264 ! X =   658.2000,   6087.750,    495.976,    0 !   !END!  GR_M0208
DSC0265 ! X =   658.2500,   6087.750,    493.371,    0 !   !END!  GR_M0209
DSC0266 ! X =   658.3000,   6087.750,    490.624,    0 !   !END!  GR_M0210
DSC0267 ! X =   657.3000,   6087.800,    503.649,    0 !   !END!  GR_M0211
DSC0268 ! X =   657.3500,   6087.800,    523.781,    0 !   !END!  GR_M0212
DSC0269 ! X =   657.4000,   6087.800,    530.000,    0 !   !END!  GR_M0213
DSC0270 ! X =   657.4500,   6087.800,    530.000,    0 !   !END!  GR_M0214
DSC0271 ! X =   657.5000,   6087.800,    530.000,    0 !   !END!  GR_M0215
DSC0272 ! X =   657.5500,   6087.800,    530.000,    0 !   !END!  GR_M0216
DSC0273 ! X =   657.6000,   6087.800,    530.000,    0 !   !END!  GR_M0217
DSC0274 ! X =   657.6500,   6087.800,    530.000,    0 !   !END!  GR_M0218
DSC0275 ! X =   657.7000,   6087.800,    530.000,    0 !   !END!  GR_M0219
DSC0276 ! X =   657.7500,   6087.800,    530.000,    0 !   !END!  GR_M0220
DSC0277 ! X =   657.8500,   6087.800,    530.000,    0 !   !END!  GR_M0221
DSC0278 ! X =   657.9000,   6087.800,    530.000,    0 !   !END!  GR_M0222
DSC0279 ! X =   657.9500,   6087.800,    530.000,    0 !   !END!  GR_M0223
DSC0280 ! X =   658.0000,   6087.800,    530.000,    0 !   !END!  GR_M0224
DSC0281 ! X =   658.0500,   6087.800,    530.000,    0 !   !END!  GR_M0225
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DSC0282 ! X =   658.1000,   6087.800,    522.162,    0 !   !END!  GR_M0226
DSC0283 ! X =   658.1500,   6087.800,    495.694,    0 !   !END!  GR_M0227
DSC0284 ! X =   658.2000,   6087.800,    492.669,    0 !   !END!  GR_M0228
DSC0285 ! X =   658.2500,   6087.800,    489.946,    0 !   !END!  GR_M0229
DSC0286 ! X =   658.3000,   6087.800,    486.360,    0 !   !END!  GR_M0230
DSC0287 ! X =   657.3000,   6087.850,    488.357,    0 !   !END!  GR_M0231
DSC0288 ! X =   657.3500,   6087.850,    508.957,    0 !   !END!  GR_M0232
DSC0289 ! X =   657.4000,   6087.850,    529.088,    0 !   !END!  GR_M0233
DSC0290 ! X =   657.4500,   6087.850,    530.000,    0 !   !END!  GR_M0234
DSC0291 ! X =   657.5000,   6087.850,    530.000,    0 !   !END!  GR_M0235
DSC0292 ! X =   657.5500,   6087.850,    530.000,    0 !   !END!  GR_M0236
DSC0293 ! X =   657.6000,   6087.850,    530.000,    0 !   !END!  GR_M0237
DSC0294 ! X =   657.6500,   6087.850,    530.000,    0 !   !END!  GR_M0238
DSC0295 ! X =   657.7000,   6087.850,    530.000,    0 !   !END!  GR_M0239
DSC0296 ! X =   657.7500,   6087.850,    530.000,    0 !   !END!  GR_M0240
DSC0297 ! X =   657.8000,   6087.850,    530.000,    0 !   !END!  GR_M0241
DSC0298 ! X =   657.8500,   6087.850,    530.000,    0 !   !END!  GR_M0242
DSC0299 ! X =   657.9000,   6087.850,    530.000,    0 !   !END!  GR_M0243
DSC0300 ! X =   657.9500,   6087.850,    530.000,    0 !   !END!  GR_M0244
DSC0301 ! X =   658.0000,   6087.850,    530.000,    0 !   !END!  GR_M0245
DSC0302 ! X =   658.0500,   6087.850,    521.563,    0 !   !END!  GR_M0246
DSC0303 ! X =   658.1000,   6087.850,    495.558,    0 !   !END!  GR_M0247
DSC0304 ! X =   658.1500,   6087.850,    493.042,    0 !   !END!  GR_M0248
DSC0305 ! X =   658.2000,   6087.850,    489.283,    0 !   !END!  GR_M0249
DSC0306 ! X =   658.2500,   6087.850,    486.238,    0 !   !END!  GR_M0250
DSC0307 ! X =   658.3000,   6087.850,    481.109,    0 !   !END!  GR_M0251
DSC0308 ! X =   657.3000,   6087.900,    487.331,    0 !   !END!  GR_M0252
DSC0309 ! X =   657.3500,   6087.900,    490.877,    0 !   !END!  GR_M0253
DSC0310 ! X =   657.4000,   6087.900,    514.264,    0 !   !END!  GR_M0254
DSC0311 ! X =   657.4500,   6087.900,    530.000,    0 !   !END!  GR_M0255
DSC0312 ! X =   657.5000,   6087.900,    530.000,    0 !   !END!  GR_M0256
DSC0313 ! X =   657.5500,   6087.900,    530.000,    0 !   !END!  GR_M0257
DSC0314 ! X =   657.6000,   6087.900,    530.000,    0 !   !END!  GR_M0258
DSC0315 ! X =   657.6500,   6087.900,    530.000,    0 !   !END!  GR_M0259
DSC0316 ! X =   657.7000,   6087.900,    530.000,    0 !   !END!  GR_M0260
DSC0317 ! X =   657.7500,   6087.900,    530.000,    0 !   !END!  GR_M0261
DSC0318 ! X =   657.8000,   6087.900,    530.000,    0 !   !END!  GR_M0262
DSC0319 ! X =   657.8500,   6087.900,    530.000,    0 !   !END!  GR_M0263
DSC0320 ! X =   657.9000,   6087.900,    530.000,    0 !   !END!  GR_M0264
DSC0321 ! X =   657.9500,   6087.900,    530.000,    0 !   !END!  GR_M0265
DSC0322 ! X =   658.0000,   6087.900,    520.964,    0 !   !END!  GR_M0266
DSC0323 ! X =   658.0500,   6087.900,    494.167,    0 !   !END!  GR_M0267
DSC0324 ! X =   658.1000,   6087.900,    492.410,    0 !   !END!  GR_M0268
DSC0325 ! X =   658.1500,   6087.900,    489.237,    0 !   !END!  GR_M0269
DSC0326 ! X =   658.2000,   6087.900,    485.446,    0 !   !END!  GR_M0270
DSC0327 ! X =   658.2500,   6087.900,    481.061,    0 !   !END!  GR_M0271
DSC0328 ! X =   658.3000,   6087.900,    476.475,    0 !   !END!  GR_M0272
DSC0329 ! X =   657.3000,   6087.950,    486.295,    0 !   !END!  GR_M0273
DSC0330 ! X =   657.3500,   6087.950,    489.126,    0 !   !END!  GR_M0274
DSC0331 ! X =   657.4000,   6087.950,    492.140,    0 !   !END!  GR_M0275
DSC0332 ! X =   657.4500,   6087.950,    519.572,    0 !   !END!  GR_M0276
DSC0333 ! X =   657.5000,   6087.950,    530.000,    0 !   !END!  GR_M0277
DSC0334 ! X =   657.5500,   6087.950,    530.000,    0 !   !END!  GR_M0278
DSC0335 ! X =   657.6000,   6087.950,    530.000,    0 !   !END!  GR_M0279
DSC0336 ! X =   657.6500,   6087.950,    530.000,    0 !   !END!  GR_M0280
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DSC0337 ! X =   657.7000,   6087.950,    530.000,    0 !   !END!  GR_M0281
DSC0338 ! X =   657.7500,   6087.950,    530.000,    0 !   !END!  GR_M0282
DSC0339 ! X =   657.8000,   6087.950,    530.000,    0 !   !END!  GR_M0283
DSC0340 ! X =   657.8500,   6087.950,    530.000,    0 !   !END!  GR_M0284
DSC0341 ! X =   657.9000,   6087.950,    530.000,    0 !   !END!  GR_M0285
DSC0342 ! X =   657.9500,   6087.950,    520.365,    0 !   !END!  GR_M0286
DSC0343 ! X =   658.0000,   6087.950,    492.527,    0 !   !END!  GR_M0287
DSC0344 ! X =   658.0500,   6087.950,    490.978,    0 !   !END!  GR_M0288
DSC0345 ! X =   658.1000,   6087.950,    488.382,    0 !   !END!  GR_M0289
DSC0346 ! X =   658.1500,   6087.950,    484.117,    0 !   !END!  GR_M0290
DSC0347 ! X =   658.2000,   6087.950,    479.849,    0 !   !END!  GR_M0291
DSC0348 ! X =   658.2500,   6087.950,    476.099,    0 !   !END!  GR_M0292
DSC0349 ! X =   658.3000,   6087.950,    472.480,    0 !   !END!  GR_M0293
DSC0350 ! X =   657.3000,   6088.000,    485.930,    0 !   !END!  GR_M0294
DSC0351 ! X =   657.3500,   6088.000,    488.135,    0 !   !END!  GR_M0295
DSC0352 ! X =   657.4000,   6088.000,    490.917,    0 !   !END!  GR_M0296
DSC0353 ! X =   657.4500,   6088.000,    504.748,    0 !   !END!  GR_M0297
DSC0354 ! X =   657.5000,   6088.000,    524.000,    0 !   !END!  GR_M0298
DSC0355 ! X =   657.5500,   6088.000,    524.164,    0 !   !END!  GR_M0299
DSC0356 ! X =   657.6000,   6088.000,    530.000,    0 !   !END!  GR_M0300
DSC0357 ! X =   657.6500,   6088.000,    530.000,    0 !   !END!  GR_M0301
DSC0358 ! X =   657.7000,   6088.000,    530.000,    0 !   !END!  GR_M0302
DSC0359 ! X =   657.7500,   6088.000,    530.000,    0 !   !END!  GR_M0303
DSC0360 ! X =   657.8000,   6088.000,    527.752,    0 !   !END!  GR_M0304
DSC0361 ! X =   657.8500,   6088.000,    524.000,    0 !   !END!  GR_M0305
DSC0362 ! X =   657.9000,   6088.000,    519.766,    0 !   !END!  GR_M0306
DSC0363 ! X =   657.9500,   6088.000,    490.709,    0 !   !END!  GR_M0307
DSC0364 ! X =   658.0000,   6088.000,    488.067,    0 !   !END!  GR_M0308
DSC0365 ! X =   658.0500,   6088.000,    485.554,    0 !   !END!  GR_M0309
DSC0366 ! X =   658.1000,   6088.000,    481.142,    0 !   !END!  GR_M0310
DSC0367 ! X =   658.1500,   6088.000,    476.691,    0 !   !END!  GR_M0311
DSC0368 ! X =   658.2000,   6088.000,    474.013,    0 !   !END!  GR_M0312
DSC0369 ! X =   658.2500,   6088.000,    471.853,    0 !   !END!  GR_M0313
DSC0370 ! X =   658.3000,   6088.000,    470.316,    0 !   !END!  GR_M0314
DSC0371 ! X =   657.3000,   6088.050,    485.387,    0 !   !END!  GR_M0315
DSC0372 ! X =   657.3500,   6088.050,    487.218,    0 !   !END!  GR_M0316
DSC0373 ! X =   657.4000,   6088.050,    489.883,    0 !   !END!  GR_M0317
DSC0374 ! X =   657.4500,   6088.050,    491.719,    0 !   !END!  GR_M0318
DSC0375 ! X =   657.5000,   6088.050,    510.056,    0 !   !END!  GR_M0319
DSC0376 ! X =   657.5500,   6088.050,    524.000,    0 !   !END!  GR_M0320
DSC0377 ! X =   657.6000,   6088.050,    524.000,    0 !   !END!  GR_M0321
DSC0378 ! X =   657.6500,   6088.050,    524.000,    0 !   !END!  GR_M0322
DSC0379 ! X =   657.7000,   6088.050,    524.000,    0 !   !END!  GR_M0323
DSC0380 ! X =   657.7500,   6088.050,    524.000,    0 !   !END!  GR_M0324
DSC0381 ! X =   657.8000,   6088.050,    524.000,    0 !   !END!  GR_M0325
DSC0382 ! X =   657.8500,   6088.050,    519.167,    0 !   !END!  GR_M0326
DSC0383 ! X =   657.9000,   6088.050,    491.438,    0 !   !END!  GR_M0327
DSC0384 ! X =   657.9500,   6088.050,    486.264,    0 !   !END!  GR_M0328
DSC0385 ! X =   658.0000,   6088.050,    481.758,    0 !   !END!  GR_M0329
DSC0386 ! X =   658.0500,   6088.050,    477.186,    0 !   !END!  GR_M0330
DSC0387 ! X =   658.1000,   6088.050,    472.507,    0 !   !END!  GR_M0331
DSC0388 ! X =   658.1500,   6088.050,    470.041,    0 !   !END!  GR_M0332
DSC0389 ! X =   658.2000,   6088.050,    470.182,    0 !   !END!  GR_M0333
DSC0390 ! X =   658.2500,   6088.050,    469.568,    0 !   !END!  GR_M0334
DSC0391 ! X =   658.3000,   6088.050,    469.000,    0 !   !END!  GR_M0335
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DSC0392 ! X =   657.3000,   6088.100,    484.379,    0 !   !END!  GR_M0336
DSC0393 ! X =   657.3500,   6088.100,    486.263,    0 !   !END!  GR_M0337
DSC0394 ! X =   657.4000,   6088.100,    488.105,    0 !   !END!  GR_M0338
DSC0395 ! X =   657.4500,   6088.100,    489.976,    0 !   !END!  GR_M0339
DSC0396 ! X =   657.5000,   6088.100,    492.502,    0 !   !END!  GR_M0340
DSC0397 ! X =   657.5500,   6088.100,    515.363,    0 !   !END!  GR_M0341
DSC0398 ! X =   657.6000,   6088.100,    524.000,    0 !   !END!  GR_M0342
DSC0399 ! X =   657.6500,   6088.100,    524.000,    0 !   !END!  GR_M0343
DSC0400 ! X =   657.7000,   6088.100,    524.000,    0 !   !END!  GR_M0344
DSC0401 ! X =   657.7500,   6088.100,    524.000,    0 !   !END!  GR_M0345
DSC0402 ! X =   657.8000,   6088.100,    518.568,    0 !   !END!  GR_M0346
DSC0403 ! X =   657.8500,   6088.100,    492.681,    0 !   !END!  GR_M0347
DSC0404 ! X =   657.9000,   6088.100,    487.145,    0 !   !END!  GR_M0348
DSC0405 ! X =   657.9500,   6088.100,    481.824,    0 !   !END!  GR_M0349
DSC0406 ! X =   658.0000,   6088.100,    476.210,    0 !   !END!  GR_M0350
DSC0407 ! X =   658.0500,   6088.100,    470.942,    0 !   !END!  GR_M0351
DSC0408 ! X =   658.1000,   6088.100,    468.787,    0 !   !END!  GR_M0352
DSC0409 ! X =   658.1500,   6088.100,    468.000,    0 !   !END!  GR_M0353
DSC0410 ! X =   658.2000,   6088.100,    468.927,    0 !   !END!  GR_M0354
DSC0411 ! X =   658.2500,   6088.100,    468.013,    0 !   !END!  GR_M0355
DSC0412 ! X =   658.3000,   6088.100,    468.000,    0 !   !END!  GR_M0356
DSC0413 ! X =   657.3000,   6088.150,    483.418,    0 !   !END!  GR_M0357
DSC0414 ! X =   657.3500,   6088.150,    485.264,    0 !   !END!  GR_M0358
DSC0415 ! X =   657.4000,   6088.150,    487.156,    0 !   !END!  GR_M0359
DSC0416 ! X =   657.4500,   6088.150,    488.648,    0 !   !END!  GR_M0360
DSC0417 ! X =   657.5000,   6088.150,    490.477,    0 !   !END!  GR_M0361
DSC0418 ! X =   657.5500,   6088.150,    500.540,    0 !   !END!  GR_M0362
DSC0419 ! X =   657.6000,   6088.150,    520.671,    0 !   !END!  GR_M0363
DSC0420 ! X =   657.6500,   6088.150,    524.000,    0 !   !END!  GR_M0364
DSC0421 ! X =   657.7000,   6088.150,    524.000,    0 !   !END!  GR_M0365
DSC0422 ! X =   657.7500,   6088.150,    517.969,    0 !   !END!  GR_M0366
DSC0423 ! X =   657.8000,   6088.150,    493.010,    0 !   !END!  GR_M0367
DSC0424 ! X =   657.8500,   6088.150,    489.327,    0 !   !END!  GR_M0368
DSC0425 ! X =   657.9000,   6088.150,    483.299,    0 !   !END!  GR_M0369
DSC0426 ! X =   657.9500,   6088.150,    478.216,    0 !   !END!  GR_M0370
DSC0427 ! X =   658.0000,   6088.150,    472.315,    0 !   !END!  GR_M0371
DSC0428 ! X =   658.0500,   6088.150,    469.054,    0 !   !END!  GR_M0372
DSC0429 ! X =   658.1000,   6088.150,    467.000,    0 !   !END!  GR_M0373
DSC0430 ! X =   658.1500,   6088.150,    467.000,    0 !   !END!  GR_M0374
DSC0431 ! X =   658.2000,   6088.150,    468.000,    0 !   !END!  GR_M0375
DSC0432 ! X =   658.2500,   6088.150,    468.000,    0 !   !END!  GR_M0376
DSC0433 ! X =   658.3000,   6088.150,    467.371,    0 !   !END!  GR_M0377
DSC0434 ! X =   657.3000,   6088.200,    482.262,    0 !   !END!  GR_M0378
DSC0435 ! X =   657.3500,   6088.200,    484.225,    0 !   !END!  GR_M0379
DSC0436 ! X =   657.4000,   6088.200,    485.654,    0 !   !END!  GR_M0380
DSC0437 ! X =   657.4500,   6088.200,    487.073,    0 !   !END!  GR_M0381
DSC0438 ! X =   657.5000,   6088.200,    488.565,    0 !   !END!  GR_M0382
DSC0439 ! X =   657.5500,   6088.200,    490.868,    0 !   !END!  GR_M0383
DSC0440 ! X =   657.6000,   6088.200,    505.847,    0 !   !END!  GR_M0384
DSC0441 ! X =   657.6500,   6088.200,    524.000,    0 !   !END!  GR_M0385
DSC0442 ! X =   657.7000,   6088.200,    517.370,    0 !   !END!  GR_M0386
DSC0443 ! X =   657.7500,   6088.200,    491.911,    0 !   !END!  GR_M0387
DSC0444 ! X =   657.8000,   6088.200,    489.035,    0 !   !END!  GR_M0388
DSC0445 ! X =   657.8500,   6088.200,    485.054,    0 !   !END!  GR_M0389
DSC0446 ! X =   657.9000,   6088.200,    479.534,    0 !   !END!  GR_M0390
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DSC0447 ! X =   657.9500,   6088.200,    474.803,    0 !   !END!  GR_M0391
DSC0448 ! X =   658.0000,   6088.200,    470.707,    0 !   !END!  GR_M0392
DSC0449 ! X =   658.0500,   6088.200,    468.000,    0 !   !END!  GR_M0393
DSC0450 ! X =   658.1000,   6088.200,    467.523,    0 !   !END!  GR_M0394
DSC0451 ! X =   658.1500,   6088.200,    467.000,    0 !   !END!  GR_M0395
DSC0452 ! X =   658.2000,   6088.200,    467.000,    0 !   !END!  GR_M0396
DSC0453 ! X =   658.2500,   6088.200,    467.000,    0 !   !END!  GR_M0397
DSC0454 ! X =   658.3000,   6088.200,    467.000,    0 !   !END!  GR_M0398
DSC0455 ! X =   657.3000,   6088.250,    481.156,    0 !   !END!  GR_M0399
DSC0456 ! X =   657.3500,   6088.250,    482.835,    0 !   !END!  GR_M0400
DSC0457 ! X =   657.4000,   6088.250,    484.261,    0 !   !END!  GR_M0401
DSC0458 ! X =   657.4500,   6088.250,    486.000,    0 !   !END!  GR_M0402
DSC0459 ! X =   657.5000,   6088.250,    487.422,    0 !   !END!  GR_M0403
DSC0460 ! X =   657.5500,   6088.250,    489.370,    0 !   !END!  GR_M0404
DSC0461 ! X =   657.6000,   6088.250,    490.563,    0 !   !END!  GR_M0405
DSC0462 ! X =   657.6500,   6088.250,    511.155,    0 !   !END!  GR_M0406
DSC0463 ! X =   657.7000,   6088.250,    489.717,    0 !   !END!  GR_M0407
DSC0464 ! X =   657.7500,   6088.250,    488.008,    0 !   !END!  GR_M0408
DSC0465 ! X =   657.8000,   6088.250,    484.270,    0 !   !END!  GR_M0409
DSC0466 ! X =   657.8500,   6088.250,    479.668,    0 !   !END!  GR_M0410
DSC0467 ! X =   657.9000,   6088.250,    475.094,    0 !   !END!  GR_M0411
DSC0468 ! X =   657.9500,   6088.250,    472.413,    0 !   !END!  GR_M0412
DSC0469 ! X =   658.0000,   6088.250,    470.096,    0 !   !END!  GR_M0413
DSC0470 ! X =   658.0500,   6088.250,    468.959,    0 !   !END!  GR_M0414
DSC0471 ! X =   658.1000,   6088.250,    468.000,    0 !   !END!  GR_M0415
DSC0472 ! X =   658.1500,   6088.250,    468.000,    0 !   !END!  GR_M0416
DSC0473 ! X =   658.2000,   6088.250,    467.815,    0 !   !END!  GR_M0417
DSC0474 ! X =   658.2500,   6088.250,    467.000,    0 !   !END!  GR_M0418
DSC0475 ! X =   658.3000,   6088.250,    467.000,    0 !   !END!  GR_M0419
DSC0476 ! X =   657.3000,   6088.300,    479.965,    0 !   !END!  GR_M0420
DSC0477 ! X =   657.3500,   6088.300,    481.930,    0 !   !END!  GR_M0421
DSC0478 ! X =   657.4000,   6088.300,    483.070,    0 !   !END!  GR_M0422
DSC0479 ! X =   657.4500,   6088.300,    484.519,    0 !   !END!  GR_M0423
DSC0480 ! X =   657.5000,   6088.300,    486.371,    0 !   !END!  GR_M0424
DSC0481 ! X =   657.5500,   6088.300,    487.926,    0 !   !END!  GR_M0425
DSC0482 ! X =   657.6000,   6088.300,    488.408,    0 !   !END!  GR_M0426
DSC0483 ! X =   657.6500,   6088.300,    486.485,    0 !   !END!  GR_M0427
DSC0484 ! X =   657.7000,   6088.300,    486.123,    0 !   !END!  GR_M0428
DSC0485 ! X =   657.7500,   6088.300,    484.045,    0 !   !END!  GR_M0429
DSC0486 ! X =   657.8000,   6088.300,    479.113,    0 !   !END!  GR_M0430
DSC0487 ! X =   657.8500,   6088.300,    474.240,    0 !   !END!  GR_M0431
DSC0488 ! X =   657.9000,   6088.300,    471.864,    0 !   !END!  GR_M0432
DSC0489 ! X =   657.9500,   6088.300,    470.941,    0 !   !END!  GR_M0433
DSC0490 ! X =   658.0000,   6088.300,    470.000,    0 !   !END!  GR_M0434
DSC0491 ! X =   658.0500,   6088.300,    469.000,    0 !   !END!  GR_M0435
DSC0492 ! X =   658.1000,   6088.300,    468.800,    0 !   !END!  GR_M0436
DSC0493 ! X =   658.1500,   6088.300,    468.000,    0 !   !END!  GR_M0437
DSC0494 ! X =   658.2000,   6088.300,    468.000,    0 !   !END!  GR_M0438
DSC0495 ! X =   658.2500,   6088.300,    467.000,    0 !   !END!  GR_M0439
DSC0496 ! X =   658.3000,   6088.300,    467.000,    0 !   !END!  GR_M0440
DSC0497 ! X =   657.7000,   6085.900,    518.798,    0 !   !END!  GR_M0441
DSC0498 ! X =   657.7500,   6085.900,    522.544,    0 !   !END!  GR_M0442
DSC0499 ! X =   657.8000,   6085.900,    526.527,    0 !   !END!  GR_M0443
DSC0500 ! X =   657.8500,   6085.900,    530.800,    0 !   !END!  GR_M0444
DSC0501 ! X =   657.9000,   6085.900,    532.928,    0 !   !END!  GR_M0445
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DSC0502 ! X =   657.9500,   6085.900,    533.815,    0 !   !END!  GR_M0446
DSC0503 ! X =   658.0000,   6085.900,    534.661,    0 !   !END!  GR_M0447
DSC0504 ! X =   658.0500,   6085.900,    535.000,    0 !   !END!  GR_M0448
DSC0505 ! X =   658.1000,   6085.900,    532.883,    0 !   !END!  GR_M0449
DSC0506 ! X =   658.1500,   6085.900,    531.716,    0 !   !END!  GR_M0450
DSC0507 ! X =   658.2000,   6085.900,    528.309,    0 !   !END!  GR_M0451
DSC0508 ! X =   658.2500,   6085.900,    522.605,    0 !   !END!  GR_M0452
DSC0509 ! X =   658.3000,   6085.900,    514.600,    0 !   !END!  GR_M0453
DSC0510 ! X =   658.3500,   6085.900,    507.118,    0 !   !END!  GR_M0454
DSC0511 ! X =   658.4000,   6085.900,    501.825,    0 !   !END!  GR_M0455
DSC0512 ! X =   658.4500,   6085.900,    496.391,    0 !   !END!  GR_M0456
DSC0513 ! X =   658.5000,   6085.900,    492.790,    0 !   !END!  GR_M0457
DSC0514 ! X =   658.5500,   6085.900,    490.296,    0 !   !END!  GR_M0458
DSC0515 ! X =   658.6000,   6085.900,    488.030,    0 !   !END!  GR_M0459
DSC0516 ! X =   658.6500,   6085.900,    487.000,    0 !   !END!  GR_M0460
DSC0517 ! X =   658.7000,   6085.900,    487.000,    0 !   !END!  GR_M0461
DSC0518 ! X =   657.7000,   6085.950,    517.771,    0 !   !END!  GR_M0462
DSC0519 ! X =   657.7500,   6085.950,    522.347,    0 !   !END!  GR_M0463
DSC0520 ! X =   657.8000,   6085.950,    527.427,    0 !   !END!  GR_M0464
DSC0521 ! X =   657.8500,   6085.950,    532.090,    0 !   !END!  GR_M0465
DSC0522 ! X =   657.9000,   6085.950,    533.985,    0 !   !END!  GR_M0466
DSC0523 ! X =   657.9500,   6085.950,    534.494,    0 !   !END!  GR_M0467
DSC0524 ! X =   658.0000,   6085.950,    534.737,    0 !   !END!  GR_M0468
DSC0525 ! X =   658.0500,   6085.950,    533.365,    0 !   !END!  GR_M0469
DSC0526 ! X =   658.1000,   6085.950,    529.128,    0 !   !END!  GR_M0470
DSC0527 ! X =   658.1500,   6085.950,    526.253,    0 !   !END!  GR_M0471
DSC0528 ! X =   658.2000,   6085.950,    523.273,    0 !   !END!  GR_M0472
DSC0529 ! X =   658.2500,   6085.950,    515.799,    0 !   !END!  GR_M0473
DSC0530 ! X =   658.3000,   6085.950,    505.576,    0 !   !END!  GR_M0474
DSC0531 ! X =   658.3500,   6085.950,    499.827,    0 !   !END!  GR_M0475
DSC0532 ! X =   658.4000,   6085.950,    494.386,    0 !   !END!  GR_M0476
DSC0533 ! X =   658.4500,   6085.950,    489.906,    0 !   !END!  GR_M0477
DSC0534 ! X =   658.5000,   6085.950,    488.338,    0 !   !END!  GR_M0478
DSC0535 ! X =   658.5500,   6085.950,    487.063,    0 !   !END!  GR_M0479
DSC0536 ! X =   658.6000,   6085.950,    487.000,    0 !   !END!  GR_M0480
DSC0537 ! X =   658.6500,   6085.950,    487.000,    0 !   !END!  GR_M0481
DSC0538 ! X =   658.7000,   6085.950,    487.000,    0 !   !END!  GR_M0482
DSC0539 ! X =   657.7000,   6086.000,    517.069,    0 !   !END!  GR_M0483
DSC0540 ! X =   657.7500,   6086.000,    522.853,    0 !   !END!  GR_M0484
DSC0541 ! X =   657.8000,   6086.000,    529.162,    0 !   !END!  GR_M0485
DSC0542 ! X =   657.8500,   6086.000,    533.000,    0 !   !END!  GR_M0486
DSC0543 ! X =   657.9000,   6086.000,    534.000,    0 !   !END!  GR_M0487
DSC0544 ! X =   657.9500,   6086.000,    534.061,    0 !   !END!  GR_M0488
DSC0545 ! X =   658.0000,   6086.000,    534.000,    0 !   !END!  GR_M0489
DSC0546 ! X =   658.0500,   6086.000,    530.181,    0 !   !END!  GR_M0490
DSC0547 ! X =   658.1000,   6086.000,    523.898,    0 !   !END!  GR_M0491
DSC0548 ! X =   658.1500,   6086.000,    520.829,    0 !   !END!  GR_M0492
DSC0549 ! X =   658.2000,   6086.000,    517.169,    0 !   !END!  GR_M0493
DSC0550 ! X =   658.2500,   6086.000,    507.887,    0 !   !END!  GR_M0494
DSC0551 ! X =   658.3000,   6086.000,    497.907,    0 !   !END!  GR_M0495
DSC0552 ! X =   658.3500,   6086.000,    492.328,    0 !   !END!  GR_M0496
DSC0553 ! X =   658.4000,   6086.000,    487.000,    0 !   !END!  GR_M0497
DSC0554 ! X =   658.4500,   6086.000,    487.000,    0 !   !END!  GR_M0498
DSC0555 ! X =   658.5000,   6086.000,    487.000,    0 !   !END!  GR_M0499
DSC0556 ! X =   658.5500,   6086.000,    487.000,    0 !   !END!  GR_M0500
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DSC0557 ! X =   658.6000,   6086.000,    487.000,    0 !   !END!  GR_M0501
DSC0558 ! X =   658.6500,   6086.000,    487.000,    0 !   !END!  GR_M0502
DSC0559 ! X =   658.7000,   6086.000,    487.000,    0 !   !END!  GR_M0503
DSC0560 ! X =   657.7000,   6086.050,    519.146,    0 !   !END!  GR_M0504
DSC0561 ! X =   657.7500,   6086.050,    525.272,    0 !   !END!  GR_M0505
DSC0562 ! X =   657.8000,   6086.050,    530.897,    0 !   !END!  GR_M0506
DSC0563 ! X =   657.8500,   6086.050,    533.561,    0 !   !END!  GR_M0507
DSC0564 ! X =   657.9000,   6086.050,    534.000,    0 !   !END!  GR_M0508
DSC0565 ! X =   657.9500,   6086.050,    533.100,    0 !   !END!  GR_M0509
DSC0566 ! X =   658.0000,   6086.050,    531.336,    0 !   !END!  GR_M0510
DSC0567 ! X =   658.0500,   6086.050,    525.393,    0 !   !END!  GR_M0511
DSC0568 ! X =   658.1000,   6086.050,    518.380,    0 !   !END!  GR_M0512
DSC0569 ! X =   658.1500,   6086.050,    516.416,    0 !   !END!  GR_M0513
DSC0570 ! X =   658.2000,   6086.050,    511.398,    0 !   !END!  GR_M0514
DSC0571 ! X =   658.2500,   6086.050,    500.866,    0 !   !END!  GR_M0515
DSC0572 ! X =   658.3000,   6086.050,    491.667,    0 !   !END!  GR_M0516
DSC0573 ! X =   658.3500,   6086.050,    487.000,    0 !   !END!  GR_M0517
DSC0574 ! X =   658.4000,   6086.050,    487.000,    0 !   !END!  GR_M0518
DSC0575 ! X =   658.4500,   6086.050,    487.000,    0 !   !END!  GR_M0519
DSC0576 ! X =   658.5000,   6086.050,    487.000,    0 !   !END!  GR_M0520
DSC0577 ! X =   658.5500,   6086.050,    487.000,    0 !   !END!  GR_M0521
DSC0578 ! X =   658.6000,   6086.050,    487.000,    0 !   !END!  GR_M0522
DSC0579 ! X =   658.6500,   6086.050,    487.000,    0 !   !END!  GR_M0523
DSC0580 ! X =   658.7000,   6086.050,    487.000,    0 !   !END!  GR_M0524
DSC0581 ! X =   657.7000,   6086.100,    523.163,    0 !   !END!  GR_M0525
DSC0582 ! X =   657.7500,   6086.100,    528.619,    0 !   !END!  GR_M0526
DSC0583 ! X =   657.8000,   6086.100,    532.799,    0 !   !END!  GR_M0527
DSC0584 ! X =   657.8500,   6086.100,    534.000,    0 !   !END!  GR_M0528
DSC0585 ! X =   657.9000,   6086.100,    533.482,    0 !   !END!  GR_M0529
DSC0586 ! X =   657.9500,   6086.100,    530.726,    0 !   !END!  GR_M0530
DSC0587 ! X =   658.0000,   6086.100,    526.891,    0 !   !END!  GR_M0531
DSC0588 ! X =   658.0500,   6086.100,    520.794,    0 !   !END!  GR_M0532
DSC0589 ! X =   658.1000,   6086.100,    514.734,    0 !   !END!  GR_M0533
DSC0590 ! X =   658.1500,   6086.100,    512.125,    0 !   !END!  GR_M0534
DSC0591 ! X =   658.2000,   6086.100,    506.114,    0 !   !END!  GR_M0535
DSC0592 ! X =   658.2500,   6086.100,    495.256,    0 !   !END!  GR_M0536
DSC0593 ! X =   658.3000,   6086.100,    487.000,    0 !   !END!  GR_M0537
DSC0594 ! X =   658.3500,   6086.100,    487.000,    0 !   !END!  GR_M0538
DSC0595 ! X =   658.4000,   6086.100,    487.000,    0 !   !END!  GR_M0539
DSC0596 ! X =   658.4500,   6086.100,    487.000,    0 !   !END!  GR_M0540
DSC0597 ! X =   658.5000,   6086.100,    487.000,    0 !   !END!  GR_M0541
DSC0598 ! X =   658.5500,   6086.100,    487.000,    0 !   !END!  GR_M0542
DSC0599 ! X =   658.6000,   6086.100,    487.000,    0 !   !END!  GR_M0543
DSC0600 ! X =   658.6500,   6086.100,    487.000,    0 !   !END!  GR_M0544
DSC0601 ! X =   658.7000,   6086.100,    487.000,    0 !   !END!  GR_M0545
DSC0602 ! X =   657.7000,   6086.150,    527.493,    0 !   !END!  GR_M0546
DSC0603 ! X =   657.7500,   6086.150,    532.473,    0 !   !END!  GR_M0547
DSC0604 ! X =   657.8000,   6086.150,    534.000,    0 !   !END!  GR_M0548
DSC0605 ! X =   657.8500,   6086.150,    534.702,    0 !   !END!  GR_M0549
DSC0606 ! X =   657.9000,   6086.150,    532.586,    0 !   !END!  GR_M0550
DSC0607 ! X =   657.9500,   6086.150,    527.379,    0 !   !END!  GR_M0551
DSC0608 ! X =   658.0000,   6086.150,    522.451,    0 !   !END!  GR_M0552
DSC0609 ! X =   658.0500,   6086.150,    516.386,    0 !   !END!  GR_M0553
DSC0610 ! X =   658.1000,   6086.150,    512.450,    0 !   !END!  GR_M0554
DSC0611 ! X =   658.1500,   6086.150,    508.787,    0 !   !END!  GR_M0555
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DSC0612 ! X =   658.2000,   6086.150,    502.253,    0 !   !END!  GR_M0556
DSC0613 ! X =   658.2500,   6086.150,    490.336,    0 !   !END!  GR_M0557
DSC0614 ! X =   658.3000,   6086.150,    487.000,    0 !   !END!  GR_M0558
DSC0615 ! X =   658.3500,   6086.150,    487.000,    0 !   !END!  GR_M0559
DSC0616 ! X =   658.4000,   6086.150,    487.000,    0 !   !END!  GR_M0560
DSC0617 ! X =   658.4500,   6086.150,    487.000,    0 !   !END!  GR_M0561
DSC0618 ! X =   658.5000,   6086.150,    487.000,    0 !   !END!  GR_M0562
DSC0619 ! X =   658.5500,   6086.150,    487.000,    0 !   !END!  GR_M0563
DSC0620 ! X =   658.6000,   6086.150,    487.000,    0 !   !END!  GR_M0564
DSC0621 ! X =   658.6500,   6086.150,    487.000,    0 !   !END!  GR_M0565
DSC0622 ! X =   658.7000,   6086.150,    487.000,    0 !   !END!  GR_M0566
DSC0623 ! X =   657.7000,   6086.200,    531.087,    0 !   !END!  GR_M0567
DSC0624 ! X =   657.7500,   6086.200,    534.862,    0 !   !END!  GR_M0568
DSC0625 ! X =   657.8000,   6086.200,    535.000,    0 !   !END!  GR_M0569
DSC0626 ! X =   657.8500,   6086.200,    534.190,    0 !   !END!  GR_M0570
DSC0627 ! X =   657.9000,   6086.200,    531.615,    0 !   !END!  GR_M0571
DSC0628 ! X =   657.9500,   6086.200,    524.864,    0 !   !END!  GR_M0572
DSC0629 ! X =   658.0000,   6086.200,    518.490,    0 !   !END!  GR_M0573
DSC0630 ! X =   658.0500,   6086.200,    513.827,    0 !   !END!  GR_M0574
DSC0631 ! X =   658.1000,   6086.200,    510.165,    0 !   !END!  GR_M0575
DSC0632 ! X =   658.1500,   6086.200,    506.262,    0 !   !END!  GR_M0576
DSC0633 ! X =   658.2000,   6086.200,    498.882,    0 !   !END!  GR_M0577
DSC0634 ! X =   658.2500,   6086.200,    487.000,    0 !   !END!  GR_M0578
DSC0635 ! X =   658.3000,   6086.200,    487.000,    0 !   !END!  GR_M0579
DSC0636 ! X =   658.3500,   6086.200,    487.000,    0 !   !END!  GR_M0580
DSC0637 ! X =   658.4000,   6086.200,    487.000,    0 !   !END!  GR_M0581
DSC0638 ! X =   658.4500,   6086.200,    487.000,    0 !   !END!  GR_M0582
DSC0639 ! X =   658.5000,   6086.200,    487.000,    0 !   !END!  GR_M0583
DSC0640 ! X =   658.5500,   6086.200,    487.000,    0 !   !END!  GR_M0584
DSC0641 ! X =   658.6000,   6086.200,    487.000,    0 !   !END!  GR_M0585
DSC0642 ! X =   658.6500,   6086.200,    487.000,    0 !   !END!  GR_M0586
DSC0643 ! X =   658.7000,   6086.200,    487.000,    0 !   !END!  GR_M0587
DSC0644 ! X =   657.7000,   6086.250,    533.748,    0 !   !END!  GR_M0588
DSC0645 ! X =   657.7500,   6086.250,    536.008,    0 !   !END!  GR_M0589
DSC0646 ! X =   657.8000,   6086.250,    536.000,    0 !   !END!  GR_M0590
DSC0647 ! X =   657.8500,   6086.250,    534.061,    0 !   !END!  GR_M0591
DSC0648 ! X =   657.9000,   6086.250,    530.388,    0 !   !END!  GR_M0592
DSC0649 ! X =   657.9500,   6086.250,    523.165,    0 !   !END!  GR_M0593
DSC0650 ! X =   658.0000,   6086.250,    516.205,    0 !   !END!  GR_M0594
DSC0651 ! X =   658.0500,   6086.250,    513.104,    0 !   !END!  GR_M0595
DSC0652 ! X =   658.1000,   6086.250,    509.676,    0 !   !END!  GR_M0596
DSC0653 ! X =   658.1500,   6086.250,    498.500,    0 !   !END!  GR_M0597
DSC0654 ! X =   658.2000,   6086.250,    486.500,    0 !   !END!  GR_M0598
DSC0655 ! X =   658.2500,   6086.250,    486.500,    0 !   !END!  GR_M0599
DSC0656 ! X =   658.3000,   6086.250,    486.500,    0 !   !END!  GR_M0600
DSC0657 ! X =   658.3500,   6086.250,    486.500,    0 !   !END!  GR_M0601
DSC0658 ! X =   658.4000,   6086.250,    487.000,    0 !   !END!  GR_M0602
DSC0659 ! X =   658.4500,   6086.250,    487.000,    0 !   !END!  GR_M0603
DSC0660 ! X =   658.5000,   6086.250,    487.000,    0 !   !END!  GR_M0604
DSC0661 ! X =   658.5500,   6086.250,    487.000,    0 !   !END!  GR_M0605
DSC0662 ! X =   658.6000,   6086.250,    487.000,    0 !   !END!  GR_M0606
DSC0663 ! X =   658.6500,   6086.250,    487.000,    0 !   !END!  GR_M0607
DSC0664 ! X =   658.7000,   6086.250,    490.151,    0 !   !END!  GR_M0608
DSC0665 ! X =   657.7000,   6086.300,    535.106,    0 !   !END!  GR_M0609
DSC0666 ! X =   657.7500,   6086.300,    537.173,    0 !   !END!  GR_M0610
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DSC0667 ! X =   657.8000,   6086.300,    536.698,    0 !   !END!  GR_M0611
DSC0668 ! X =   657.8500,   6086.300,    533.926,    0 !   !END!  GR_M0612
DSC0669 ! X =   657.9000,   6086.300,    529.197,    0 !   !END!  GR_M0613
DSC0670 ! X =   657.9500,   6086.300,    522.824,    0 !   !END!  GR_M0614
DSC0671 ! X =   658.0000,   6086.300,    516.714,    0 !   !END!  GR_M0615
DSC0672 ! X =   658.0500,   6086.300,    513.612,    0 !   !END!  GR_M0616
DSC0673 ! X =   658.1000,   6086.300,    486.500,    0 !   !END!  GR_M0617
DSC0674 ! X =   658.1500,   6086.300,    486.500,    0 !   !END!  GR_M0618
DSC0675 ! X =   658.2000,   6086.300,    486.500,    0 !   !END!  GR_M0619
DSC0676 ! X =   658.2500,   6086.300,    486.500,    0 !   !END!  GR_M0620
DSC0677 ! X =   658.3000,   6086.300,    486.500,    0 !   !END!  GR_M0621
DSC0678 ! X =   658.3500,   6086.300,    486.500,    0 !   !END!  GR_M0622
DSC0679 ! X =   658.4000,   6086.300,    486.500,    0 !   !END!  GR_M0623
DSC0680 ! X =   658.4500,   6086.300,    486.500,    0 !   !END!  GR_M0624
DSC0681 ! X =   658.5000,   6086.300,    487.000,    0 !   !END!  GR_M0625
DSC0682 ! X =   658.5500,   6086.300,    487.000,    0 !   !END!  GR_M0626
DSC0683 ! X =   658.6000,   6086.300,    487.000,    0 !   !END!  GR_M0627
DSC0684 ! X =   658.6500,   6086.300,    494.076,    0 !   !END!  GR_M0628
DSC0685 ! X =   658.7000,   6086.300,    499.547,    0 !   !END!  GR_M0629
DSC0686 ! X =   657.7000,   6086.350,    536.390,    0 !   !END!  GR_M0630
DSC0687 ! X =   657.7500,   6086.350,    538.815,    0 !   !END!  GR_M0631
DSC0688 ! X =   657.8000,   6086.350,    537.653,    0 !   !END!  GR_M0632
DSC0689 ! X =   657.8500,   6086.350,    533.971,    0 !   !END!  GR_M0633
DSC0690 ! X =   657.9000,   6086.350,    529.212,    0 !   !END!  GR_M0634
DSC0691 ! X =   657.9500,   6086.350,    523.662,    0 !   !END!  GR_M0635
DSC0692 ! X =   658.0000,   6086.350,    518.528,    0 !   !END!  GR_M0636
DSC0693 ! X =   658.0500,   6086.350,    486.500,    0 !   !END!  GR_M0637
DSC0694 ! X =   658.1000,   6086.350,    486.500,    0 !   !END!  GR_M0638
DSC0695 ! X =   658.1500,   6086.350,    486.500,    0 !   !END!  GR_M0639
DSC0696 ! X =   658.2000,   6086.350,    486.500,    0 !   !END!  GR_M0640
DSC0697 ! X =   658.2500,   6086.350,    486.500,    0 !   !END!  GR_M0641
DSC0698 ! X =   658.3000,   6086.350,    486.500,    0 !   !END!  GR_M0642
DSC0699 ! X =   658.3500,   6086.350,    486.500,    0 !   !END!  GR_M0643
DSC0700 ! X =   658.4000,   6086.350,    486.500,    0 !   !END!  GR_M0644
DSC0701 ! X =   658.4500,   6086.350,    486.500,    0 !   !END!  GR_M0645
DSC0702 ! X =   658.5000,   6086.350,    486.500,    0 !   !END!  GR_M0646
DSC0703 ! X =   658.5500,   6086.350,    498.500,    0 !   !END!  GR_M0647
DSC0704 ! X =   658.6000,   6086.350,    498.709,    0 !   !END!  GR_M0648
DSC0705 ! X =   658.6500,   6086.350,    502.906,    0 !   !END!  GR_M0649
DSC0706 ! X =   658.7000,   6086.350,    506.414,    0 !   !END!  GR_M0650
DSC0707 ! X =   657.7000,   6086.400,    538.680,    0 !   !END!  GR_M0651
DSC0708 ! X =   657.7500,   6086.400,    540.483,    0 !   !END!  GR_M0652
DSC0709 ! X =   657.8000,   6086.400,    538.813,    0 !   !END!  GR_M0653
DSC0710 ! X =   657.8500,   6086.400,    534.997,    0 !   !END!  GR_M0654
DSC0711 ! X =   657.9000,   6086.400,    530.874,    0 !   !END!  GR_M0655
DSC0712 ! X =   657.9500,   6086.400,    525.370,    0 !   !END!  GR_M0656
DSC0713 ! X =   658.0000,   6086.400,    528.120,    0 !   !END!  GR_M0657
DSC0714 ! X =   658.0500,   6086.400,    486.500,    0 !   !END!  GR_M0658
DSC0715 ! X =   658.1000,   6086.400,    486.500,    0 !   !END!  GR_M0659
DSC0716 ! X =   658.1500,   6086.400,    486.500,    0 !   !END!  GR_M0660
DSC0717 ! X =   658.2500,   6086.400,    486.500,    0 !   !END!  GR_M0661
DSC0718 ! X =   658.3000,   6086.400,    486.500,    0 !   !END!  GR_M0662
DSC0719 ! X =   658.3500,   6086.400,    486.500,    0 !   !END!  GR_M0663
DSC0720 ! X =   658.4000,   6086.400,    486.500,    0 !   !END!  GR_M0664
DSC0721 ! X =   658.4500,   6086.400,    486.500,    0 !   !END!  GR_M0665
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DSC0722 ! X =   658.5000,   6086.400,    486.500,    0 !   !END!  GR_M0666
DSC0723 ! X =   658.5500,   6086.400,    486.500,    0 !   !END!  GR_M0667
DSC0724 ! X =   658.6000,   6086.400,    506.916,    0 !   !END!  GR_M0668
DSC0725 ! X =   658.6500,   6086.400,    509.230,    0 !   !END!  GR_M0669
DSC0726 ! X =   658.7000,   6086.400,    510.976,    0 !   !END!  GR_M0670
DSC0727 ! X =   657.7000,   6086.450,    540.965,    0 !   !END!  GR_M0671
DSC0728 ! X =   657.7500,   6086.450,    542.638,    0 !   !END!  GR_M0672
DSC0729 ! X =   657.8000,   6086.450,    540.834,    0 !   !END!  GR_M0673
DSC0730 ! X =   657.8500,   6086.450,    537.018,    0 !   !END!  GR_M0674
DSC0731 ! X =   657.9000,   6086.450,    532.202,    0 !   !END!  GR_M0675
DSC0732 ! X =   657.9500,   6086.450,    527.708,    0 !   !END!  GR_M0676
DSC0733 ! X =   658.0000,   6086.450,    498.500,    0 !   !END!  GR_M0677
DSC0734 ! X =   658.0500,   6086.450,    492.500,    0 !   !END!  GR_M0678
DSC0735 ! X =   658.1000,   6086.450,    486.500,    0 !   !END!  GR_M0679
DSC0736 ! X =   658.1500,   6086.450,    486.500,    0 !   !END!  GR_M0680
DSC0737 ! X =   658.2000,   6086.450,    486.500,    0 !   !END!  GR_M0681
DSC0738 ! X =   658.2500,   6086.450,    486.500,    0 !   !END!  GR_M0682
DSC0739 ! X =   658.3000,   6086.450,    486.500,    0 !   !END!  GR_M0683
DSC0740 ! X =   658.3500,   6086.450,    486.500,    0 !   !END!  GR_M0684
DSC0741 ! X =   658.4000,   6086.450,    486.500,    0 !   !END!  GR_M0685
DSC0742 ! X =   658.4500,   6086.450,    486.500,    0 !   !END!  GR_M0686
DSC0743 ! X =   658.5000,   6086.450,    486.500,    0 !   !END!  GR_M0687
DSC0744 ! X =   658.5500,   6086.450,    486.500,    0 !   !END!  GR_M0688
DSC0745 ! X =   658.6000,   6086.450,    513.042,    0 !   !END!  GR_M0689
DSC0746 ! X =   658.6500,   6086.450,    513.619,    0 !   !END!  GR_M0690
DSC0747 ! X =   658.7000,   6086.450,    514.416,    0 !   !END!  GR_M0691
DSC0748 ! X =   657.7000,   6086.500,    543.245,    0 !   !END!  GR_M0692
DSC0749 ! X =   657.7500,   6086.500,    545.587,    0 !   !END!  GR_M0693
DSC0750 ! X =   657.8000,   6086.500,    543.819,    0 !   !END!  GR_M0694
DSC0751 ! X =   657.8500,   6086.500,    539.043,    0 !   !END!  GR_M0695
DSC0752 ! X =   657.9000,   6086.500,    534.038,    0 !   !END!  GR_M0696
DSC0753 ! X =   657.9500,   6086.500,    530.491,    0 !   !END!  GR_M0697
DSC0754 ! X =   658.0000,   6086.500,    492.500,    0 !   !END!  GR_M0698
DSC0755 ! X =   658.0500,   6086.500,    492.500,    0 !   !END!  GR_M0699
DSC0756 ! X =   658.1000,   6086.500,    486.500,    0 !   !END!  GR_M0700
DSC0757 ! X =   658.1500,   6086.500,    486.500,    0 !   !END!  GR_M0701
DSC0758 ! X =   658.2000,   6086.500,    486.500,    0 !   !END!  GR_M0702
DSC0759 ! X =   658.2500,   6086.500,    486.500,    0 !   !END!  GR_M0703
DSC0760 ! X =   658.3000,   6086.500,    486.500,    0 !   !END!  GR_M0704
DSC0761 ! X =   658.3500,   6086.500,    486.500,    0 !   !END!  GR_M0705
DSC0762 ! X =   658.4000,   6086.500,    486.500,    0 !   !END!  GR_M0706
DSC0763 ! X =   658.4500,   6086.500,    486.500,    0 !   !END!  GR_M0707
DSC0764 ! X =   658.5000,   6086.500,    486.500,    0 !   !END!  GR_M0708
DSC0765 ! X =   658.5500,   6086.500,    486.500,    0 !   !END!  GR_M0709
DSC0766 ! X =   658.6000,   6086.500,    519.507,    0 !   !END!  GR_M0710
DSC0767 ! X =   658.6500,   6086.500,    518.851,    0 !   !END!  GR_M0711
DSC0768 ! X =   658.7000,   6086.500,    518.698,    0 !   !END!  GR_M0712
DSC0769 ! X =   657.7000,   6086.550,    546.534,    0 !   !END!  GR_M0713
DSC0770 ! X =   657.7500,   6086.550,    547.949,    0 !   !END!  GR_M0714
DSC0771 ! X =   657.8000,   6086.550,    545.880,    0 !   !END!  GR_M0715
DSC0772 ! X =   657.8500,   6086.550,    541.914,    0 !   !END!  GR_M0716
DSC0773 ! X =   657.9000,   6086.550,    536.116,    0 !   !END!  GR_M0717
DSC0774 ! X =   657.9500,   6086.550,    528.500,    0 !   !END!  GR_M0718
DSC0775 ! X =   658.0000,   6086.550,    492.500,    0 !   !END!  GR_M0719
DSC0776 ! X =   658.0500,   6086.550,    492.500,    0 !   !END!  GR_M0720
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DSC0777 ! X =   658.1000,   6086.550,    492.500,    0 !   !END!  GR_M0721
DSC0778 ! X =   658.1500,   6086.550,    486.500,    0 !   !END!  GR_M0722
DSC0779 ! X =   658.2000,   6086.550,    498.500,    0 !   !END!  GR_M0723
DSC0780 ! X =   658.2500,   6086.550,    498.832,    0 !   !END!  GR_M0724
DSC0781 ! X =   658.3000,   6086.550,    494.029,    0 !   !END!  GR_M0725
DSC0782 ! X =   658.3500,   6086.550,    486.500,    0 !   !END!  GR_M0726
DSC0783 ! X =   658.4000,   6086.550,    486.500,    0 !   !END!  GR_M0727
DSC0784 ! X =   658.4500,   6086.550,    486.500,    0 !   !END!  GR_M0728
DSC0785 ! X =   658.5000,   6086.550,    486.500,    0 !   !END!  GR_M0729
DSC0786 ! X =   658.5500,   6086.550,    510.500,    0 !   !END!  GR_M0730
DSC0787 ! X =   658.6000,   6086.550,    525.973,    0 !   !END!  GR_M0731
DSC0788 ! X =   658.6500,   6086.550,    524.742,    0 !   !END!  GR_M0732
DSC0789 ! X =   658.7000,   6086.550,    523.008,    0 !   !END!  GR_M0733
DSC0790 ! X =   657.7000,   6086.600,    548.819,    0 !   !END!  GR_M0734
DSC0791 ! X =   657.7500,   6086.600,    550.198,    0 !   !END!  GR_M0735
DSC0792 ! X =   657.8000,   6086.600,    548.906,    0 !   !END!  GR_M0736
DSC0793 ! X =   657.8500,   6086.600,    545.040,    0 !   !END!  GR_M0737
DSC0794 ! X =   657.9000,   6086.600,    540.671,    0 !   !END!  GR_M0738
DSC0795 ! X =   657.9500,   6086.600,    538.594,    0 !   !END!  GR_M0739
DSC0796 ! X =   658.0000,   6086.600,    523.021,    0 !   !END!  GR_M0740
DSC0797 ! X =   658.0500,   6086.600,    518.575,    0 !   !END!  GR_M0741
DSC0798 ! X =   658.1000,   6086.600,    522.500,    0 !   !END!  GR_M0742
DSC0799 ! X =   658.1500,   6086.600,    528.455,    0 !   !END!  GR_M0743
DSC0800 ! X =   658.2000,   6086.600,    534.500,    0 !   !END!  GR_M0744
DSC0801 ! X =   658.2500,   6086.600,    535.758,    0 !   !END!  GR_M0745
DSC0802 ! X =   658.3000,   6086.600,    532.024,    0 !   !END!  GR_M0746
DSC0803 ! X =   658.3500,   6086.600,    510.500,    0 !   !END!  GR_M0747
DSC0804 ! X =   658.4000,   6086.600,    498.500,    0 !   !END!  GR_M0748
DSC0805 ! X =   658.4500,   6086.600,    498.019,    0 !   !END!  GR_M0749
DSC0806 ! X =   658.5000,   6086.600,    515.351,    0 !   !END!  GR_M0750
DSC0807 ! X =   658.5500,   6086.600,    532.654,    0 !   !END!  GR_M0751
DSC0808 ! X =   658.6000,   6086.600,    532.424,    0 !   !END!  GR_M0752
DSC0809 ! X =   658.6500,   6086.600,    530.290,    0 !   !END!  GR_M0753
DSC0810 ! X =   658.7000,   6086.600,    527.891,    0 !   !END!  GR_M0754
DSC0811 ! X =   657.7000,   6086.650,    551.104,    0 !   !END!  GR_M0755
DSC0812 ! X =   657.7500,   6086.650,    553.254,    0 !   !END!  GR_M0756
DSC0813 ! X =   657.8000,   6086.650,    552.114,    0 !   !END!  GR_M0757
DSC0814 ! X =   657.8500,   6086.650,    548.335,    0 !   !END!  GR_M0758
DSC0815 ! X =   657.9000,   6086.650,    545.349,    0 !   !END!  GR_M0759
DSC0816 ! X =   657.9500,   6086.650,    542.904,    0 !   !END!  GR_M0760
DSC0817 ! X =   658.0000,   6086.650,    542.958,    0 !   !END!  GR_M0761
DSC0818 ! X =   658.0500,   6086.650,    542.649,    0 !   !END!  GR_M0762
DSC0819 ! X =   658.1000,   6086.650,    542.179,    0 !   !END!  GR_M0763
DSC0820 ! X =   658.1500,   6086.650,    541.949,    0 !   !END!  GR_M0764
DSC0821 ! X =   658.2000,   6086.650,    541.718,    0 !   !END!  GR_M0765
DSC0822 ! X =   658.2500,   6086.650,    540.992,    0 !   !END!  GR_M0766
DSC0823 ! X =   658.3000,   6086.650,    538.696,    0 !   !END!  GR_M0767
DSC0824 ! X =   658.3500,   6086.650,    537.776,    0 !   !END!  GR_M0768
DSC0825 ! X =   658.4000,   6086.650,    539.208,    0 !   !END!  GR_M0769
DSC0826 ! X =   658.4500,   6086.650,    540.607,    0 !   !END!  GR_M0770
DSC0827 ! X =   658.5000,   6086.650,    538.629,    0 !   !END!  GR_M0771
DSC0828 ! X =   658.5500,   6086.650,    537.066,    0 !   !END!  GR_M0772
DSC0829 ! X =   658.6000,   6086.650,    535.880,    0 !   !END!  GR_M0773
DSC0830 ! X =   658.6500,   6086.650,    533.891,    0 !   !END!  GR_M0774
DSC0831 ! X =   658.7000,   6086.650,    531.171,    0 !   !END!  GR_M0775
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DSC0832 ! X =   657.7000,   6086.700,    553.394,    0 !   !END!  GR_M0776
DSC0833 ! X =   657.7500,   6086.700,    556.201,    0 !   !END!  GR_M0777
DSC0834 ! X =   657.8000,   6086.700,    556.082,    0 !   !END!  GR_M0778
DSC0835 ! X =   657.8500,   6086.700,    553.782,    0 !   !END!  GR_M0779
DSC0836 ! X =   657.9000,   6086.700,    551.577,    0 !   !END!  GR_M0780
DSC0837 ! X =   657.9500,   6086.700,    549.322,    0 !   !END!  GR_M0781
DSC0838 ! X =   658.0000,   6086.700,    549.091,    0 !   !END!  GR_M0782
DSC0839 ! X =   658.0500,   6086.700,    548.875,    0 !   !END!  GR_M0783
DSC0840 ! X =   658.1000,   6086.700,    548.645,    0 !   !END!  GR_M0784
DSC0841 ! X =   658.1500,   6086.700,    548.414,    0 !   !END!  GR_M0785
DSC0842 ! X =   658.2000,   6086.700,    547.184,    0 !   !END!  GR_M0786
DSC0843 ! X =   658.2500,   6086.700,    545.366,    0 !   !END!  GR_M0787
DSC0844 ! X =   658.3000,   6086.700,    546.392,    0 !   !END!  GR_M0788
DSC0845 ! X =   658.3500,   6086.700,    546.010,    0 !   !END!  GR_M0789
DSC0846 ! X =   658.4000,   6086.700,    547.107,    0 !   !END!  GR_M0790
DSC0847 ! X =   658.4500,   6086.700,    546.702,    0 !   !END!  GR_M0791
DSC0848 ! X =   658.5000,   6086.700,    543.610,    0 !   !END!  GR_M0792
DSC0849 ! X =   658.5500,   6086.700,    540.298,    0 !   !END!  GR_M0793
DSC0850 ! X =   658.6000,   6086.700,    537.906,    0 !   !END!  GR_M0794
DSC0851 ! X =   658.6500,   6086.700,    536.002,    0 !   !END!  GR_M0795
DSC0852 ! X =   658.7000,   6086.700,    533.970,    0 !   !END!  GR_M0796
DSC0853 ! X =   657.7000,   6086.750,    556.320,    0 !   !END!  GR_M0797
DSC0854 ! X =   657.7500,   6086.750,    559.341,    0 !   !END!  GR_M0798
DSC0855 ! X =   657.8000,   6086.750,    559.976,    0 !   !END!  GR_M0799
DSC0856 ! X =   657.8500,   6086.750,    559.683,    0 !   !END!  GR_M0800
DSC0857 ! X =   657.9000,   6086.750,    558.361,    0 !   !END!  GR_M0801
DSC0858 ! X =   657.9500,   6086.750,    557.050,    0 !   !END!  GR_M0802
DSC0859 ! X =   658.0000,   6086.750,    556.742,    0 !   !END!  GR_M0803
DSC0860 ! X =   658.0500,   6086.750,    557.646,    0 !   !END!  GR_M0804
DSC0861 ! X =   658.1000,   6086.750,    558.147,    0 !   !END!  GR_M0805
DSC0862 ! X =   658.1500,   6086.750,    557.138,    0 !   !END!  GR_M0806
DSC0863 ! X =   658.2000,   6086.750,    552.338,    0 !   !END!  GR_M0807
DSC0864 ! X =   658.2500,   6086.750,    549.645,    0 !   !END!  GR_M0808
DSC0865 ! X =   658.3000,   6086.750,    550.730,    0 !   !END!  GR_M0809
DSC0866 ! X =   658.3500,   6086.750,    549.884,    0 !   !END!  GR_M0810
DSC0867 ! X =   658.4000,   6086.750,    550.227,    0 !   !END!  GR_M0811
DSC0868 ! X =   658.4500,   6086.750,    549.439,    0 !   !END!  GR_M0812
DSC0869 ! X =   658.5000,   6086.750,    546.558,    0 !   !END!  GR_M0813
DSC0870 ! X =   658.5500,   6086.750,    542.137,    0 !   !END!  GR_M0814
DSC0871 ! X =   658.6000,   6086.750,    539.179,    0 !   !END!  GR_M0815
DSC0872 ! X =   658.6500,   6086.750,    536.931,    0 !   !END!  GR_M0816
DSC0873 ! X =   658.7000,   6086.750,    535.021,    0 !   !END!  GR_M0817
DSC0874 ! X =   657.7000,   6086.800,    558.308,    0 !   !END!  GR_M0818
DSC0875 ! X =   657.7500,   6086.800,    562.375,    0 !   !END!  GR_M0819
DSC0876 ! X =   657.8000,   6086.800,    563.418,    0 !   !END!  GR_M0820
DSC0877 ! X =   657.8500,   6086.800,    564.142,    0 !   !END!  GR_M0821
DSC0878 ! X =   657.9000,   6086.800,    563.989,    0 !   !END!  GR_M0822
DSC0879 ! X =   657.9500,   6086.800,    563.835,    0 !   !END!  GR_M0823
DSC0880 ! X =   658.0000,   6086.800,    563.682,    0 !   !END!  GR_M0824
DSC0881 ! X =   658.0500,   6086.800,    563.874,    0 !   !END!  GR_M0825
DSC0882 ! X =   658.1000,   6086.800,    565.384,    0 !   !END!  GR_M0826
DSC0883 ! X =   658.1500,   6086.800,    563.311,    0 !   !END!  GR_M0827
DSC0884 ! X =   658.2000,   6086.800,    555.912,    0 !   !END!  GR_M0828
DSC0885 ! X =   658.2500,   6086.800,    551.671,    0 !   !END!  GR_M0829
DSC0886 ! X =   658.3000,   6086.800,    551.000,    0 !   !END!  GR_M0830
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DSC0887 ! X =   658.3500,   6086.800,    550.369,    0 !   !END!  GR_M0831
DSC0888 ! X =   658.4000,   6086.800,    550.000,    0 !   !END!  GR_M0832
DSC0889 ! X =   658.4500,   6086.800,    548.829,    0 !   !END!  GR_M0833
DSC0890 ! X =   658.5000,   6086.800,    546.419,    0 !   !END!  GR_M0834
DSC0891 ! X =   658.5500,   6086.800,    543.133,    0 !   !END!  GR_M0835
DSC0892 ! X =   658.6000,   6086.800,    540.224,    0 !   !END!  GR_M0836
DSC0893 ! X =   658.6500,   6086.800,    537.784,    0 !   !END!  GR_M0837
DSC0894 ! X =   658.7000,   6086.800,    536.012,    0 !   !END!  GR_M0838
DSC0895 ! X =   657.7000,   6086.850,    559.587,    0 !   !END!  GR_M0839
DSC0896 ! X =   657.7500,   6086.850,    563.915,    0 !   !END!  GR_M0840
DSC0897 ! X =   657.8000,   6086.850,    565.578,    0 !   !END!  GR_M0841
DSC0898 ! X =   657.8500,   6086.850,    566.722,    0 !   !END!  GR_M0842
DSC0899 ! X =   657.9000,   6086.850,    566.650,    0 !   !END!  GR_M0843
DSC0900 ! X =   657.9500,   6086.850,    566.573,    0 !   !END!  GR_M0844
DSC0901 ! X =   658.0000,   6086.850,    566.496,    0 !   !END!  GR_M0845
DSC0902 ! X =   658.0500,   6086.850,    566.695,    0 !   !END!  GR_M0846
DSC0903 ! X =   658.1000,   6086.850,    567.584,    0 !   !END!  GR_M0847
DSC0904 ! X =   658.1500,   6086.850,    564.518,    0 !   !END!  GR_M0848
DSC0905 ! X =   658.2000,   6086.850,    556.421,    0 !   !END!  GR_M0849
DSC0906 ! X =   658.2500,   6086.850,    551.451,    0 !   !END!  GR_M0850
DSC0907 ! X =   658.3000,   6086.850,    549.960,    0 !   !END!  GR_M0851
DSC0908 ! X =   658.3500,   6086.850,    549.037,    0 !   !END!  GR_M0852
DSC0909 ! X =   658.4000,   6086.850,    549.000,    0 !   !END!  GR_M0853
DSC0910 ! X =   658.4500,   6086.850,    547.679,    0 !   !END!  GR_M0854
DSC0911 ! X =   658.5000,   6086.850,    545.867,    0 !   !END!  GR_M0855
DSC0912 ! X =   658.5500,   6086.850,    543.128,    0 !   !END!  GR_M0856
DSC0913 ! X =   658.6000,   6086.850,    540.389,    0 !   !END!  GR_M0857
DSC0914 ! X =   658.6500,   6086.850,    538.000,    0 !   !END!  GR_M0858
DSC0915 ! X =   658.7000,   6086.850,    536.000,    0 !   !END!  GR_M0859
DSC0916 ! X =   657.7000,   6086.900,    560.369,    0 !   !END!  GR_M0860
DSC0917 ! X =   657.7500,   6086.900,    564.170,    0 !   !END!  GR_M0861
DSC0918 ! X =   657.8000,   6086.900,    566.867,    0 !   !END!  GR_M0862
DSC0919 ! X =   657.8500,   6086.900,    567.877,    0 !   !END!  GR_M0863
DSC0920 ! X =   657.9000,   6086.900,    568.000,    0 !   !END!  GR_M0864
DSC0921 ! X =   657.9500,   6086.900,    568.000,    0 !   !END!  GR_M0865
DSC0922 ! X =   658.0000,   6086.900,    566.433,    0 !   !END!  GR_M0866
DSC0923 ! X =   658.0500,   6086.900,    565.426,    0 !   !END!  GR_M0867
DSC0924 ! X =   658.1000,   6086.900,    564.329,    0 !   !END!  GR_M0868
DSC0925 ! X =   658.1500,   6086.900,    559.585,    0 !   !END!  GR_M0869
DSC0926 ! X =   658.2000,   6086.900,    553.648,    0 !   !END!  GR_M0870
DSC0927 ! X =   658.2500,   6086.900,    549.728,    0 !   !END!  GR_M0871
DSC0928 ! X =   658.3000,   6086.900,    548.805,    0 !   !END!  GR_M0872
DSC0929 ! X =   658.3500,   6086.900,    548.000,    0 !   !END!  GR_M0873
DSC0930 ! X =   658.4000,   6086.900,    547.958,    0 !   !END!  GR_M0874
DSC0931 ! X =   658.4500,   6086.900,    546.493,    0 !   !END!  GR_M0875
DSC0932 ! X =   658.5000,   6086.900,    544.766,    0 !   !END!  GR_M0876
DSC0933 ! X =   658.5500,   6086.900,    542.998,    0 !   !END!  GR_M0877
DSC0934 ! X =   658.6000,   6086.900,    540.259,    0 !   !END!  GR_M0878
DSC0935 ! X =   658.6500,   6086.900,    538.000,    0 !   !END!  GR_M0879
DSC0936 ! X =   658.7000,   6086.900,    536.000,    0 !   !END!  GR_M0880
DSC0937 ! X =   657.3000,   6085.100,    484.798,    0 !   !END!  GR_M0881
DSC0938 ! X =   657.3500,   6085.100,    486.000,    0 !   !END!  GR_M0882
DSC0939 ! X =   657.4000,   6085.100,    487.277,    0 !   !END!  GR_M0883
DSC0940 ! X =   657.4500,   6085.100,    492.011,    0 !   !END!  GR_M0884
DSC0941 ! X =   657.5000,   6085.100,    496.587,    0 !   !END!  GR_M0885
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DSC0942 ! X =   657.5500,   6085.100,    500.250,    0 !   !END!  GR_M0886
DSC0943 ! X =   657.6000,   6085.100,    503.141,    0 !   !END!  GR_M0887
DSC0944 ! X =   657.6500,   6085.100,    511.126,    0 !   !END!  GR_M0888
DSC0945 ! X =   657.7000,   6085.100,    519.939,    0 !   !END!  GR_M0889
DSC0946 ! X =   657.7500,   6085.100,    526.798,    0 !   !END!  GR_M0890
DSC0947 ! X =   657.8000,   6085.100,    531.874,    0 !   !END!  GR_M0891
DSC0948 ! X =   657.8500,   6085.100,    533.941,    0 !   !END!  GR_M0892
DSC0949 ! X =   657.9000,   6085.100,    534.000,    0 !   !END!  GR_M0893
DSC0950 ! X =   657.9500,   6085.100,    533.512,    0 !   !END!  GR_M0894
DSC0951 ! X =   658.0000,   6085.100,    531.922,    0 !   !END!  GR_M0895
DSC0952 ! X =   658.0500,   6085.100,    530.000,    0 !   !END!  GR_M0896
DSC0953 ! X =   658.1000,   6085.100,    529.930,    0 !   !END!  GR_M0897
DSC0954 ! X =   658.1500,   6085.100,    531.198,    0 !   !END!  GR_M0898
DSC0955 ! X =   658.2000,   6085.100,    532.856,    0 !   !END!  GR_M0899
DSC0956 ! X =   658.2500,   6085.100,    534.573,    0 !   !END!  GR_M0900
DSC0957 ! X =   658.3000,   6085.100,    535.622,    0 !   !END!  GR_M0901
DSC0958 ! X =   657.3000,   6085.150,    485.273,    0 !   !END!  GR_M0902
DSC0959 ! X =   657.3500,   6085.150,    486.740,    0 !   !END!  GR_M0903
DSC0960 ! X =   657.4000,   6085.150,    489.406,    0 !   !END!  GR_M0904
DSC0961 ! X =   657.4500,   6085.150,    493.350,    0 !   !END!  GR_M0905
DSC0962 ! X =   657.5000,   6085.150,    497.872,    0 !   !END!  GR_M0906
DSC0963 ! X =   657.5500,   6085.150,    501.534,    0 !   !END!  GR_M0907
DSC0964 ! X =   657.6000,   6085.150,    506.394,    0 !   !END!  GR_M0908
DSC0965 ! X =   657.6500,   6085.150,    514.751,    0 !   !END!  GR_M0909
DSC0966 ! X =   657.7000,   6085.150,    523.354,    0 !   !END!  GR_M0910
DSC0967 ! X =   657.7500,   6085.150,    530.018,    0 !   !END!  GR_M0911
DSC0968 ! X =   657.8000,   6085.150,    533.536,    0 !   !END!  GR_M0912
DSC0969 ! X =   657.8500,   6085.150,    534.000,    0 !   !END!  GR_M0913
DSC0970 ! X =   657.9000,   6085.150,    533.613,    0 !   !END!  GR_M0914
DSC0971 ! X =   657.9500,   6085.150,    532.329,    0 !   !END!  GR_M0915
DSC0972 ! X =   658.0000,   6085.150,    531.000,    0 !   !END!  GR_M0916
DSC0973 ! X =   658.0500,   6085.150,    531.000,    0 !   !END!  GR_M0917
DSC0974 ! X =   658.1000,   6085.150,    531.816,    0 !   !END!  GR_M0918
DSC0975 ! X =   658.1500,   6085.150,    533.008,    0 !   !END!  GR_M0919
DSC0976 ! X =   658.2000,   6085.150,    534.200,    0 !   !END!  GR_M0920
DSC0977 ! X =   658.2500,   6085.150,    536.808,    0 !   !END!  GR_M0921
DSC0978 ! X =   658.3000,   6085.150,    537.778,    0 !   !END!  GR_M0922
DSC0979 ! X =   657.3000,   6085.200,    486.028,    0 !   !END!  GR_M0923
DSC0980 ! X =   657.3500,   6085.200,    487.873,    0 !   !END!  GR_M0924
DSC0981 ! X =   657.4000,   6085.200,    490.832,    0 !   !END!  GR_M0925
DSC0982 ! X =   657.4500,   6085.200,    495.494,    0 !   !END!  GR_M0926
DSC0983 ! X =   657.5000,   6085.200,    500.162,    0 !   !END!  GR_M0927
DSC0984 ! X =   657.5500,   6085.200,    504.819,    0 !   !END!  GR_M0928
DSC0985 ! X =   657.6000,   6085.200,    509.963,    0 !   !END!  GR_M0929
DSC0986 ! X =   657.6500,   6085.200,    517.579,    0 !   !END!  GR_M0930
DSC0987 ! X =   657.7000,   6085.200,    527.594,    0 !   !END!  GR_M0931
DSC0988 ! X =   657.7500,   6085.200,    533.405,    0 !   !END!  GR_M0932
DSC0989 ! X =   657.8000,   6085.200,    534.691,    0 !   !END!  GR_M0933
DSC0990 ! X =   657.8500,   6085.200,    533.890,    0 !   !END!  GR_M0934
DSC0991 ! X =   657.9000,   6085.200,    533.000,    0 !   !END!  GR_M0935
DSC0992 ! X =   657.9500,   6085.200,    531.649,    0 !   !END!  GR_M0936
DSC0993 ! X =   658.0000,   6085.200,    532.000,    0 !   !END!  GR_M0937
DSC0994 ! X =   658.0500,   6085.200,    532.312,    0 !   !END!  GR_M0938
DSC0995 ! X =   658.1000,   6085.200,    533.205,    0 !   !END!  GR_M0939
DSC0996 ! X =   658.1500,   6085.200,    534.673,    0 !   !END!  GR_M0940
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DSC0997 ! X =   658.2000,   6085.200,    536.401,    0 !   !END!  GR_M0941
DSC0998 ! X =   658.2500,   6085.200,    538.092,    0 !   !END!  GR_M0942
DSC0999 ! X =   658.3000,   6085.200,    539.767,    0 !   !END!  GR_M0943
DSC1000 ! X =   657.3000,   6085.250,    487.116,    0 !   !END!  GR_M0944
DSC1001 ! X =   657.3500,   6085.250,    488.968,    0 !   !END!  GR_M0945
DSC1002 ! X =   657.4000,   6085.250,    492.966,    0 !   !END!  GR_M0946
DSC1003 ! X =   657.4500,   6085.250,    497.779,    0 !   !END!  GR_M0947
DSC1004 ! X =   657.5000,   6085.250,    502.893,    0 !   !END!  GR_M0948
DSC1005 ! X =   657.5500,   6085.250,    508.334,    0 !   !END!  GR_M0949
DSC1006 ! X =   657.6000,   6085.250,    512.864,    0 !   !END!  GR_M0950
DSC1007 ! X =   657.6500,   6085.250,    521.214,    0 !   !END!  GR_M0951
DSC1008 ! X =   657.7000,   6085.250,    531.192,    0 !   !END!  GR_M0952
DSC1009 ! X =   657.7500,   6085.250,    534.923,    0 !   !END!  GR_M0953
DSC1010 ! X =   657.8000,   6085.250,    535.000,    0 !   !END!  GR_M0954
DSC1011 ! X =   657.8500,   6085.250,    533.000,    0 !   !END!  GR_M0955
DSC1012 ! X =   657.9000,   6085.250,    532.000,    0 !   !END!  GR_M0956
DSC1013 ! X =   657.9500,   6085.250,    532.489,    0 !   !END!  GR_M0957
DSC1014 ! X =   658.0000,   6085.250,    533.000,    0 !   !END!  GR_M0958
DSC1015 ! X =   658.0500,   6085.250,    534.000,    0 !   !END!  GR_M0959
DSC1016 ! X =   658.1000,   6085.250,    535.000,    0 !   !END!  GR_M0960
DSC1017 ! X =   658.1500,   6085.250,    536.314,    0 !   !END!  GR_M0961
DSC1018 ! X =   658.2000,   6085.250,    538.116,    0 !   !END!  GR_M0962
DSC1019 ! X =   658.2500,   6085.250,    540.036,    0 !   !END!  GR_M0963
DSC1020 ! X =   658.3000,   6085.250,    541.088,    0 !   !END!  GR_M0964
DSC1021 ! X =   657.3000,   6085.300,    487.322,    0 !   !END!  GR_M0965
DSC1022 ! X =   657.3500,   6085.300,    490.061,    0 !   !END!  GR_M0966
DSC1023 ! X =   657.4000,   6085.300,    494.285,    0 !   !END!  GR_M0967
DSC1024 ! X =   657.4500,   6085.300,    499.825,    0 !   !END!  GR_M0968
DSC1025 ! X =   657.5000,   6085.300,    506.856,    0 !   !END!  GR_M0969
DSC1026 ! X =   657.5500,   6085.300,    512.774,    0 !   !END!  GR_M0970
DSC1027 ! X =   657.6000,   6085.300,    516.360,    0 !   !END!  GR_M0971
DSC1028 ! X =   657.6500,   6085.300,    526.535,    0 !   !END!  GR_M0972
DSC1029 ! X =   657.7000,   6085.300,    534.376,    0 !   !END!  GR_M0973
DSC1030 ! X =   657.7500,   6085.300,    536.000,    0 !   !END!  GR_M0974
DSC1031 ! X =   657.8000,   6085.300,    544.000,    0 !   !END!  GR_M0975
DSC1032 ! X =   657.8500,   6085.300,    533.000,    0 !   !END!  GR_M0976
DSC1033 ! X =   657.9000,   6085.300,    532.876,    0 !   !END!  GR_M0977
DSC1034 ! X =   657.9500,   6085.300,    533.000,    0 !   !END!  GR_M0978
DSC1035 ! X =   658.0000,   6085.300,    534.000,    0 !   !END!  GR_M0979
DSC1036 ! X =   658.0500,   6085.300,    535.000,    0 !   !END!  GR_M0980
DSC1037 ! X =   658.1000,   6085.300,    536.546,    0 !   !END!  GR_M0981
DSC1038 ! X =   658.1500,   6085.300,    537.930,    0 !   !END!  GR_M0982
DSC1039 ! X =   658.2000,   6085.300,    539.764,    0 !   !END!  GR_M0983
DSC1040 ! X =   658.2500,   6085.300,    541.320,    0 !   !END!  GR_M0984
DSC1041 ! X =   658.3000,   6085.300,    543.243,    0 !   !END!  GR_M0985
DSC1042 ! X =   657.3000,   6085.350,    487.000,    0 !   !END!  GR_M0986
DSC1043 ! X =   657.3500,   6085.350,    490.190,    0 !   !END!  GR_M0987
DSC1044 ! X =   657.4000,   6085.350,    494.930,    0 !   !END!  GR_M0988
DSC1045 ! X =   657.4500,   6085.350,    501.338,    0 !   !END!  GR_M0989
DSC1046 ! X =   657.5000,   6085.350,    509.672,    0 !   !END!  GR_M0990
DSC1047 ! X =   657.5500,   6085.350,    517.214,    0 !   !END!  GR_M0991
DSC1048 ! X =   657.6000,   6085.350,    520.682,    0 !   !END!  GR_M0992
DSC1049 ! X =   657.6500,   6085.350,    531.245,    0 !   !END!  GR_M0993
DSC1050 ! X =   657.7000,   6085.350,    536.110,    0 !   !END!  GR_M0994
DSC1051 ! X =   657.7500,   6085.350,    544.000,    0 !   !END!  GR_M0995
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DSC1052 ! X =   657.8000,   6085.350,    544.000,    0 !   !END!  GR_M0996
DSC1053 ! X =   657.8500,   6085.350,    544.000,    0 !   !END!  GR_M0997
DSC1054 ! X =   657.9000,   6085.350,    533.000,    0 !   !END!  GR_M0998
DSC1055 ! X =   657.9500,   6085.350,    533.930,    0 !   !END!  GR_M0999
DSC1056 ! X =   658.0000,   6085.350,    534.969,    0 !   !END!  GR_M1000
DSC1057 ! X =   658.0500,   6085.350,    536.000,    0 !   !END!  GR_M1001
DSC1058 ! X =   658.1000,   6085.350,    537.780,    0 !   !END!  GR_M1002
DSC1059 ! X =   658.1500,   6085.350,    539.624,    0 !   !END!  GR_M1003
DSC1060 ! X =   658.2000,   6085.350,    540.883,    0 !   !END!  GR_M1004
DSC1061 ! X =   658.2500,   6085.350,    542.725,    0 !   !END!  GR_M1005
DSC1062 ! X =   658.3000,   6085.350,    544.614,    0 !   !END!  GR_M1006
DSC1063 ! X =   657.3000,   6085.400,    488.038,    0 !   !END!  GR_M1007
DSC1064 ! X =   657.3500,   6085.400,    491.320,    0 !   !END!  GR_M1008
DSC1065 ! X =   657.4000,   6085.400,    496.059,    0 !   !END!  GR_M1009
DSC1066 ! X =   657.4500,   6085.400,    501.597,    0 !   !END!  GR_M1010
DSC1067 ! X =   657.5000,   6085.400,    512.786,    0 !   !END!  GR_M1011
DSC1068 ! X =   657.5500,   6085.400,    520.159,    0 !   !END!  GR_M1012
DSC1069 ! X =   657.6000,   6085.400,    524.646,    0 !   !END!  GR_M1013
DSC1070 ! X =   657.6500,   6085.400,    532.501,    0 !   !END!  GR_M1014
DSC1071 ! X =   657.7000,   6085.400,    544.000,    0 !   !END!  GR_M1015
DSC1072 ! X =   657.7500,   6085.400,    544.000,    0 !   !END!  GR_M1016
DSC1073 ! X =   657.8000,   6085.400,    544.000,    0 !   !END!  GR_M1017
DSC1074 ! X =   657.8500,   6085.400,    544.000,    0 !   !END!  GR_M1018
DSC1075 ! X =   657.9000,   6085.400,    544.000,    0 !   !END!  GR_M1019
DSC1076 ! X =   657.9500,   6085.400,    534.000,    0 !   !END!  GR_M1020
DSC1077 ! X =   658.0000,   6085.400,    535.000,    0 !   !END!  GR_M1021
DSC1078 ! X =   658.0500,   6085.400,    536.977,    0 !   !END!  GR_M1022
DSC1079 ! X =   658.1000,   6085.400,    538.398,    0 !   !END!  GR_M1023
DSC1080 ! X =   658.1500,   6085.400,    540.809,    0 !   !END!  GR_M1024
DSC1081 ! X =   658.2000,   6085.400,    542.612,    0 !   !END!  GR_M1025
DSC1082 ! X =   658.2500,   6085.400,    544.385,    0 !   !END!  GR_M1026
DSC1083 ! X =   658.3000,   6085.400,    546.194,    0 !   !END!  GR_M1027
DSC1084 ! X =   657.3000,   6085.450,    489.778,    0 !   !END!  GR_M1028
DSC1085 ! X =   657.3500,   6085.450,    492.603,    0 !   !END!  GR_M1029
DSC1086 ! X =   657.4000,   6085.450,    497.194,    0 !   !END!  GR_M1030
DSC1087 ! X =   657.4500,   6085.450,    502.861,    0 !   !END!  GR_M1031
DSC1088 ! X =   657.5000,   6085.450,    515.920,    0 !   !END!  GR_M1032
DSC1089 ! X =   657.5500,   6085.450,    522.315,    0 !   !END!  GR_M1033
DSC1090 ! X =   657.6000,   6085.450,    527.258,    0 !   !END!  GR_M1034
DSC1091 ! X =   657.6500,   6085.450,    544.000,    0 !   !END!  GR_M1035
DSC1092 ! X =   657.7000,   6085.450,    544.000,    0 !   !END!  GR_M1036
DSC1093 ! X =   657.7500,   6085.450,    544.000,    0 !   !END!  GR_M1037
DSC1094 ! X =   657.8000,   6085.450,    544.000,    0 !   !END!  GR_M1038
DSC1095 ! X =   657.8500,   6085.450,    544.000,    0 !   !END!  GR_M1039
DSC1096 ! X =   657.9000,   6085.450,    544.000,    0 !   !END!  GR_M1040
DSC1097 ! X =   657.9500,   6085.450,    544.000,    0 !   !END!  GR_M1041
DSC1098 ! X =   658.0000,   6085.450,    536.000,    0 !   !END!  GR_M1042
DSC1099 ! X =   658.0500,   6085.450,    537.000,    0 !   !END!  GR_M1043
DSC1100 ! X =   658.1000,   6085.450,    539.528,    0 !   !END!  GR_M1044
DSC1101 ! X =   658.1500,   6085.450,    541.250,    0 !   !END!  GR_M1045
DSC1102 ! X =   658.2000,   6085.450,    543.859,    0 !   !END!  GR_M1046
DSC1103 ! X =   658.2500,   6085.450,    545.578,    0 !   !END!  GR_M1047
DSC1104 ! X =   658.3000,   6085.450,    547.340,    0 !   !END!  GR_M1048
DSC1105 ! X =   657.3000,   6085.500,    490.845,    0 !   !END!  GR_M1049
DSC1106 ! X =   657.3500,   6085.500,    494.584,    0 !   !END!  GR_M1050
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DSC1107 ! X =   657.4000,   6085.500,    497.550,    0 !   !END!  GR_M1051
DSC1108 ! X =   657.4500,   6085.500,    503.400,    0 !   !END!  GR_M1052
DSC1109 ! X =   657.5000,   6085.500,    518.419,    0 !   !END!  GR_M1053
DSC1110 ! X =   657.5500,   6085.500,    524.070,    0 !   !END!  GR_M1054
DSC1111 ! X =   657.6000,   6085.500,    544.000,    0 !   !END!  GR_M1055
DSC1112 ! X =   657.6500,   6085.500,    544.000,    0 !   !END!  GR_M1056
DSC1113 ! X =   657.7000,   6085.500,    544.000,    0 !   !END!  GR_M1057
DSC1114 ! X =   657.7500,   6085.500,    544.000,    0 !   !END!  GR_M1058
DSC1115 ! X =   657.8000,   6085.500,    544.000,    0 !   !END!  GR_M1059
DSC1116 ! X =   657.8500,   6085.500,    544.000,    0 !   !END!  GR_M1060
DSC1117 ! X =   657.9000,   6085.500,    544.000,    0 !   !END!  GR_M1061
DSC1118 ! X =   657.9500,   6085.500,    541.000,    0 !   !END!  GR_M1062
DSC1119 ! X =   658.0000,   6085.500,    541.000,    0 !   !END!  GR_M1063
DSC1120 ! X =   658.0500,   6085.500,    537.000,    0 !   !END!  GR_M1064
DSC1121 ! X =   658.1000,   6085.500,    539.658,    0 !   !END!  GR_M1065
DSC1122 ! X =   658.1500,   6085.500,    542.036,    0 !   !END!  GR_M1066
DSC1123 ! X =   658.2000,   6085.500,    544.147,    0 !   !END!  GR_M1067
DSC1124 ! X =   658.2500,   6085.500,    546.819,    0 !   !END!  GR_M1068
DSC1125 ! X =   658.3000,   6085.500,    548.000,    0 !   !END!  GR_M1069
DSC1126 ! X =   657.3000,   6085.550,    490.979,    0 !   !END!  GR_M1070
DSC1127 ! X =   657.3500,   6085.550,    496.168,    0 !   !END!  GR_M1071
DSC1128 ! X =   657.4000,   6085.550,    499.835,    0 !   !END!  GR_M1072
DSC1129 ! X =   657.4500,   6085.550,    507.187,    0 !   !END!  GR_M1073
DSC1130 ! X =   657.5000,   6085.550,    519.794,    0 !   !END!  GR_M1074
DSC1131 ! X =   657.5500,   6085.550,    524.670,    0 !   !END!  GR_M1075
DSC1132 ! X =   657.6000,   6085.550,    544.000,    0 !   !END!  GR_M1076
DSC1133 ! X =   657.6500,   6085.550,    544.000,    0 !   !END!  GR_M1077
DSC1134 ! X =   657.7000,   6085.550,    544.000,    0 !   !END!  GR_M1078
DSC1135 ! X =   657.7500,   6085.550,    544.000,    0 !   !END!  GR_M1079
DSC1136 ! X =   657.8000,   6085.550,    544.000,    0 !   !END!  GR_M1080
DSC1137 ! X =   657.8500,   6085.550,    544.000,    0 !   !END!  GR_M1081
DSC1138 ! X =   657.9000,   6085.550,    541.000,    0 !   !END!  GR_M1082
DSC1139 ! X =   657.9500,   6085.550,    541.000,    0 !   !END!  GR_M1083
DSC1140 ! X =   658.0000,   6085.550,    541.000,    0 !   !END!  GR_M1084
DSC1141 ! X =   658.0500,   6085.550,    541.000,    0 !   !END!  GR_M1085
DSC1142 ! X =   658.1000,   6085.550,    541.000,    0 !   !END!  GR_M1086
DSC1143 ! X =   658.1500,   6085.550,    542.531,    0 !   !END!  GR_M1087
DSC1144 ! X =   658.2000,   6085.550,    545.266,    0 !   !END!  GR_M1088
DSC1145 ! X =   658.2500,   6085.550,    548.000,    0 !   !END!  GR_M1089
DSC1146 ! X =   658.3000,   6085.550,    548.989,    0 !   !END!  GR_M1090
DSC1147 ! X =   657.3000,   6085.600,    491.829,    0 !   !END!  GR_M1091
DSC1148 ! X =   657.3500,   6085.600,    498.306,    0 !   !END!  GR_M1092
DSC1149 ! X =   657.4000,   6085.600,    502.934,    0 !   !END!  GR_M1093
DSC1150 ! X =   657.4500,   6085.600,    510.738,    0 !   !END!  GR_M1094
DSC1151 ! X =   657.5000,   6085.600,    520.061,    0 !   !END!  GR_M1095
DSC1152 ! X =   657.5500,   6085.600,    524.800,    0 !   !END!  GR_M1096
DSC1153 ! X =   657.6000,   6085.600,    544.000,    0 !   !END!  GR_M1097
DSC1154 ! X =   657.6500,   6085.600,    544.000,    0 !   !END!  GR_M1098
DSC1155 ! X =   657.7000,   6085.600,    544.000,    0 !   !END!  GR_M1099
DSC1156 ! X =   657.7500,   6085.600,    544.000,    0 !   !END!  GR_M1100
DSC1157 ! X =   657.8500,   6085.600,    541.000,    0 !   !END!  GR_M1101
DSC1158 ! X =   657.9000,   6085.600,    541.000,    0 !   !END!  GR_M1102
DSC1159 ! X =   657.9500,   6085.600,    541.000,    0 !   !END!  GR_M1103
DSC1160 ! X =   658.0000,   6085.600,    541.000,    0 !   !END!  GR_M1104
DSC1161 ! X =   658.0500,   6085.600,    541.000,    0 !   !END!  GR_M1105
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DSC1162 ! X =   658.1000,   6085.600,    541.000,    0 !   !END!  GR_M1106
DSC1163 ! X =   658.1500,   6085.600,    541.000,    0 !   !END!  GR_M1107
DSC1164 ! X =   658.2000,   6085.600,    544.806,    0 !   !END!  GR_M1108
DSC1165 ! X =   658.2500,   6085.600,    547.754,    0 !   !END!  GR_M1109
DSC1166 ! X =   658.3000,   6085.600,    546.782,    0 !   !END!  GR_M1110
DSC1167 ! X =   657.3000,   6085.650,    492.477,    0 !   !END!  GR_M1111
DSC1168 ! X =   657.3500,   6085.650,    499.720,    0 !   !END!  GR_M1112
DSC1169 ! X =   657.4000,   6085.650,    506.122,    0 !   !END!  GR_M1113
DSC1170 ! X =   657.4500,   6085.650,    513.528,    0 !   !END!  GR_M1114
DSC1171 ! X =   657.5000,   6085.650,    520.195,    0 !   !END!  GR_M1115
DSC1172 ! X =   657.5500,   6085.650,    524.467,    0 !   !END!  GR_M1116
DSC1173 ! X =   657.6000,   6085.650,    527.411,    0 !   !END!  GR_M1117
DSC1174 ! X =   657.6500,   6085.650,    544.000,    0 !   !END!  GR_M1118
DSC1175 ! X =   657.7000,   6085.650,    544.000,    0 !   !END!  GR_M1119
DSC1176 ! X =   657.7500,   6085.650,    544.000,    0 !   !END!  GR_M1120
DSC1177 ! X =   657.8000,   6085.650,    531.291,    0 !   !END!  GR_M1121
DSC1178 ! X =   657.8500,   6085.650,    541.000,    0 !   !END!  GR_M1122
DSC1179 ! X =   657.9000,   6085.650,    541.000,    0 !   !END!  GR_M1123
DSC1180 ! X =   657.9500,   6085.650,    541.000,    0 !   !END!  GR_M1124
DSC1181 ! X =   658.0000,   6085.650,    541.000,    0 !   !END!  GR_M1125
DSC1182 ! X =   658.0500,   6085.650,    541.000,    0 !   !END!  GR_M1126
DSC1183 ! X =   658.1000,   6085.650,    541.000,    0 !   !END!  GR_M1127
DSC1184 ! X =   658.1500,   6085.650,    541.795,    0 !   !END!  GR_M1128
DSC1185 ! X =   658.2000,   6085.650,    543.276,    0 !   !END!  GR_M1129
DSC1186 ! X =   658.2500,   6085.650,    544.197,    0 !   !END!  GR_M1130
DSC1187 ! X =   658.3000,   6085.650,    542.018,    0 !   !END!  GR_M1131
DSC1188 ! X =   657.3000,   6085.700,    493.744,    0 !   !END!  GR_M1132
DSC1189 ! X =   657.3500,   6085.700,    500.214,    0 !   !END!  GR_M1133
DSC1190 ! X =   657.4000,   6085.700,    507.693,    0 !   !END!  GR_M1134
DSC1191 ! X =   657.4500,   6085.700,    515.491,    0 !   !END!  GR_M1135
DSC1192 ! X =   657.5000,   6085.700,    520.325,    0 !   !END!  GR_M1136
DSC1193 ! X =   657.5500,   6085.700,    524.024,    0 !   !END!  GR_M1137
DSC1194 ! X =   657.6000,   6085.700,    525.894,    0 !   !END!  GR_M1138
DSC1195 ! X =   657.6500,   6085.700,    527.531,    0 !   !END!  GR_M1139
DSC1196 ! X =   657.7000,   6085.700,    529.325,    0 !   !END!  GR_M1140
DSC1197 ! X =   657.7500,   6085.700,    529.685,    0 !   !END!  GR_M1141
DSC1198 ! X =   657.8000,   6085.700,    541.000,    0 !   !END!  GR_M1142
DSC1199 ! X =   657.8500,   6085.700,    541.000,    0 !   !END!  GR_M1143
DSC1200 ! X =   657.9000,   6085.700,    541.000,    0 !   !END!  GR_M1144
DSC1201 ! X =   657.9500,   6085.700,    541.000,    0 !   !END!  GR_M1145
DSC1202 ! X =   658.0000,   6085.700,    541.000,    0 !   !END!  GR_M1146
DSC1203 ! X =   658.0500,   6085.700,    541.000,    0 !   !END!  GR_M1147
DSC1204 ! X =   658.1000,   6085.700,    539.040,    0 !   !END!  GR_M1148
DSC1205 ! X =   658.1500,   6085.700,    540.290,    0 !   !END!  GR_M1149
DSC1206 ! X =   658.2000,   6085.700,    541.366,    0 !   !END!  GR_M1150
DSC1207 ! X =   658.2500,   6085.700,    540.483,    0 !   !END!  GR_M1151
DSC1208 ! X =   658.3000,   6085.700,    536.344,    0 !   !END!  GR_M1152
DSC1209 ! X =   657.3000,   6085.750,    495.080,    0 !   !END!  GR_M1153
DSC1210 ! X =   657.3500,   6085.750,    501.242,    0 !   !END!  GR_M1154
DSC1211 ! X =   657.4000,   6085.750,    508.962,    0 !   !END!  GR_M1155
DSC1212 ! X =   657.4500,   6085.750,    517.357,    0 !   !END!  GR_M1156
DSC1213 ! X =   657.5000,   6085.750,    521.000,    0 !   !END!  GR_M1157
DSC1214 ! X =   657.5500,   6085.750,    523.377,    0 !   !END!  GR_M1158
DSC1215 ! X =   657.6000,   6085.750,    524.304,    0 !   !END!  GR_M1159
DSC1216 ! X =   657.6500,   6085.750,    525.381,    0 !   !END!  GR_M1160
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DSC1217 ! X =   657.7000,   6085.750,    526.453,    0 !   !END!  GR_M1161
DSC1218 ! X =   657.7500,   6085.750,    527.059,    0 !   !END!  GR_M1162
DSC1219 ! X =   657.8000,   6085.750,    541.000,    0 !   !END!  GR_M1163
DSC1220 ! X =   657.8500,   6085.750,    541.000,    0 !   !END!  GR_M1164
DSC1221 ! X =   657.9000,   6085.750,    541.000,    0 !   !END!  GR_M1165
DSC1222 ! X =   657.9500,   6085.750,    541.000,    0 !   !END!  GR_M1166
DSC1223 ! X =   658.0000,   6085.750,    541.000,    0 !   !END!  GR_M1167
DSC1224 ! X =   658.0500,   6085.750,    536.581,    0 !   !END!  GR_M1168
DSC1225 ! X =   658.1000,   6085.750,    538.362,    0 !   !END!  GR_M1169
DSC1226 ! X =   658.1500,   6085.750,    539.134,    0 !   !END!  GR_M1170
DSC1227 ! X =   658.2000,   6085.750,    538.418,    0 !   !END!  GR_M1171
DSC1228 ! X =   658.2500,   6085.750,    536.755,    0 !   !END!  GR_M1172
DSC1229 ! X =   658.3000,   6085.750,    531.186,    0 !   !END!  GR_M1173
DSC1230 ! X =   657.3000,   6085.800,    495.632,    0 !   !END!  GR_M1174
DSC1231 ! X =   657.3500,   6085.800,    501.371,    0 !   !END!  GR_M1175
DSC1232 ! X =   657.4000,   6085.800,    509.084,    0 !   !END!  GR_M1176
DSC1233 ! X =   657.4500,   6085.800,    517.622,    0 !   !END!  GR_M1177
DSC1234 ! X =   657.5000,   6085.800,    520.584,    0 !   !END!  GR_M1178
DSC1235 ! X =   657.5500,   6085.800,    522.072,    0 !   !END!  GR_M1179
DSC1236 ! X =   657.6000,   6085.800,    522.149,    0 !   !END!  GR_M1180
DSC1237 ! X =   657.6500,   6085.800,    522.226,    0 !   !END!  GR_M1181
DSC1238 ! X =   657.7000,   6085.800,    523.459,    0 !   !END!  GR_M1182
DSC1239 ! X =   657.7500,   6085.800,    524.374,    0 !   !END!  GR_M1183
DSC1240 ! X =   657.8000,   6085.800,    526.000,    0 !   !END!  GR_M1184
DSC1241 ! X =   657.8500,   6085.800,    541.000,    0 !   !END!  GR_M1185
DSC1242 ! X =   657.9000,   6085.800,    541.000,    0 !   !END!  GR_M1186
DSC1243 ! X =   657.9500,   6085.800,    541.000,    0 !   !END!  GR_M1187
DSC1244 ! X =   658.0000,   6085.800,    541.000,    0 !   !END!  GR_M1188
DSC1245 ! X =   658.0500,   6085.800,    536.000,    0 !   !END!  GR_M1189
DSC1246 ! X =   658.1000,   6085.800,    537.000,    0 !   !END!  GR_M1190
DSC1247 ! X =   658.1500,   6085.800,    536.984,    0 !   !END!  GR_M1191
DSC1248 ! X =   658.2000,   6085.800,    536.060,    0 !   !END!  GR_M1192
DSC1249 ! X =   658.2500,   6085.800,    533.466,    0 !   !END!  GR_M1193
DSC1250 ! X =   658.3000,   6085.800,    526.616,    0 !   !END!  GR_M1194
DSC1251 ! X =   657.3000,   6085.850,    496.523,    0 !   !END!  GR_M1195
DSC1252 ! X =   657.3500,   6085.850,    501.501,    0 !   !END!  GR_M1196
DSC1253 ! X =   657.4000,   6085.850,    508.245,    0 !   !END!  GR_M1197
DSC1254 ! X =   657.4500,   6085.850,    515.499,    0 !   !END!  GR_M1198
DSC1255 ! X =   657.5000,   6085.850,    518.795,    0 !   !END!  GR_M1199
DSC1256 ! X =   657.5500,   6085.850,    520.834,    0 !   !END!  GR_M1200
DSC1257 ! X =   657.6000,   6085.850,    518.994,    0 !   !END!  GR_M1201
DSC1258 ! X =   657.6500,   6085.850,    519.141,    0 !   !END!  GR_M1202
DSC1259 ! X =   657.7000,   6085.850,    521.142,    0 !   !END!  GR_M1203
DSC1260 ! X =   657.7500,   6085.850,    522.539,    0 !   !END!  GR_M1204
DSC1261 ! X =   657.8000,   6085.850,    526.105,    0 !   !END!  GR_M1205
DSC1262 ! X =   657.8500,   6085.850,    529.515,    0 !   !END!  GR_M1206
DSC1263 ! X =   657.9000,   6085.850,    541.000,    0 !   !END!  GR_M1207
DSC1264 ! X =   657.9500,   6085.850,    541.000,    0 !   !END!  GR_M1208
DSC1265 ! X =   658.0000,   6085.850,    534.106,    0 !   !END!  GR_M1209
DSC1266 ! X =   658.0500,   6085.850,    535.950,    0 !   !END!  GR_M1210
DSC1267 ! X =   658.1000,   6085.850,    535.608,    0 !   !END!  GR_M1211
DSC1268 ! X =   658.1500,   6085.850,    534.774,    0 !   !END!  GR_M1212
DSC1269 ! X =   658.2000,   6085.850,    532.802,    0 !   !END!  GR_M1213
DSC1270 ! X =   658.2500,   6085.850,    529.141,    0 !   !END!  GR_M1214
DSC1271 ! X =   658.3000,   6085.850,    521.062,    0 !   !END!  GR_M1215
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DSC1272 ! X =   657.3000,   6085.900,    495.896,    0 !   !END!  GR_M1216
DSC1273 ! X =   657.3500,   6085.900,    501.635,    0 !   !END!  GR_M1217
DSC1274 ! X =   657.4000,   6085.900,    507.396,    0 !   !END!  GR_M1218
DSC1275 ! X =   657.4500,   6085.900,    510.292,    0 !   !END!  GR_M1219
DSC1276 ! X =   657.5000,   6085.900,    513.902,    0 !   !END!  GR_M1220
DSC1277 ! X =   657.5500,   6085.900,    516.425,    0 !   !END!  GR_M1221
DSC1278 ! X =   657.6000,   6085.900,    515.677,    0 !   !END!  GR_M1222
DSC1279 ! X =   657.6500,   6085.900,    516.975,    0 !   !END!  GR_M1223
DSC1280 ! X =   657.3000,   6085.950,    495.258,    0 !   !END!  GR_M1224
DSC1281 ! X =   657.3500,   6085.950,    500.834,    0 !   !END!  GR_M1225
DSC1282 ! X =   657.4000,   6085.950,    504.074,    0 !   !END!  GR_M1226
DSC1283 ! X =   657.4500,   6085.950,    504.373,    0 !   !END!  GR_M1227
DSC1284 ! X =   657.5000,   6085.950,    507.128,    0 !   !END!  GR_M1228
DSC1285 ! X =   657.5500,   6085.950,    509.708,    0 !   !END!  GR_M1229
DSC1286 ! X =   657.6000,   6085.950,    511.822,    0 !   !END!  GR_M1230
DSC1287 ! X =   657.6500,   6085.950,    514.807,    0 !   !END!  GR_M1231
DSC1288 ! X =   657.3000,   6086.000,    493.387,    0 !   !END!  GR_M1232
DSC1289 ! X =   657.3500,   6086.000,    498.043,    0 !   !END!  GR_M1233
DSC1290 ! X =   657.4000,   6086.000,    500.859,    0 !   !END!  GR_M1234
DSC1291 ! X =   657.4500,   6086.000,    500.415,    0 !   !END!  GR_M1235
DSC1292 ! X =   657.5000,   6086.000,    501.758,    0 !   !END!  GR_M1236
DSC1293 ! X =   657.5500,   6086.000,    503.835,    0 !   !END!  GR_M1237
DSC1294 ! X =   657.6000,   6086.000,    509.118,    0 !   !END!  GR_M1238
DSC1295 ! X =   657.6500,   6086.000,    513.725,    0 !   !END!  GR_M1239
DSC1296 ! X =   657.3000,   6086.050,    491.556,    0 !   !END!  GR_M1240
DSC1297 ! X =   657.3500,   6086.050,    495.994,    0 !   !END!  GR_M1241
DSC1298 ! X =   657.4000,   6086.050,    498.070,    0 !   !END!  GR_M1242
DSC1299 ! X =   657.4500,   6086.050,    498.576,    0 !   !END!  GR_M1243
DSC1300 ! X =   657.5000,   6086.050,    500.242,    0 !   !END!  GR_M1244
DSC1301 ! X =   657.5500,   6086.050,    502.690,    0 !   !END!  GR_M1245
DSC1302 ! X =   657.6000,   6086.050,    509.172,    0 !   !END!  GR_M1246
DSC1303 ! X =   657.6500,   6086.050,    515.010,    0 !   !END!  GR_M1247
DSC1304 ! X =   657.3000,   6086.100,    490.419,    0 !   !END!  GR_M1248
DSC1305 ! X =   657.3500,   6086.100,    494.134,    0 !   !END!  GR_M1249
DSC1306 ! X =   657.4000,   6086.100,    496.076,    0 !   !END!  GR_M1250
DSC1307 ! X =   657.4500,   6086.100,    499.005,    0 !   !END!  GR_M1251
DSC1308 ! X =   657.5000,   6086.100,    501.931,    0 !   !END!  GR_M1252
DSC1309 ! X =   657.5500,   6086.100,    505.068,    0 !   !END!  GR_M1253
DSC1310 ! X =   657.6000,   6086.100,    511.482,    0 !   !END!  GR_M1254
DSC1311 ! X =   657.6500,   6086.100,    518.173,    0 !   !END!  GR_M1255
DSC1312 ! X =   656.3000,   6084.300,    468.000,    0 !   !END!  GR_M1256
DSC1313 ! X =   656.3500,   6084.300,    468.000,    0 !   !END!  GR_M1257
DSC1314 ! X =   656.4000,   6084.300,    468.000,    0 !   !END!  GR_M1258
DSC1315 ! X =   656.4500,   6084.300,    468.000,    0 !   !END!  GR_M1259
DSC1316 ! X =   656.5000,   6084.300,    468.000,    0 !   !END!  GR_M1260
DSC1317 ! X =   656.5500,   6084.300,    468.000,    0 !   !END!  GR_M1261
DSC1318 ! X =   656.6000,   6084.300,    468.000,    0 !   !END!  GR_M1262
DSC1319 ! X =   656.6500,   6084.300,    468.000,    0 !   !END!  GR_M1263
DSC1320 ! X =   656.7000,   6084.300,    468.000,    0 !   !END!  GR_M1264
DSC1321 ! X =   656.7500,   6084.300,    468.000,    0 !   !END!  GR_M1265
DSC1322 ! X =   656.8000,   6084.300,    468.272,    0 !   !END!  GR_M1266
DSC1323 ! X =   656.8500,   6084.300,    471.427,    0 !   !END!  GR_M1267
DSC1324 ! X =   656.9000,   6084.300,    477.144,    0 !   !END!  GR_M1268
DSC1325 ! X =   656.9500,   6084.300,    481.918,    0 !   !END!  GR_M1269
DSC1326 ! X =   657.0000,   6084.300,    485.392,    0 !   !END!  GR_M1270
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DSC1327 ! X =   657.0500,   6084.300,    488.040,    0 !   !END!  GR_M1271
DSC1328 ! X =   657.1000,   6084.300,    488.000,    0 !   !END!  GR_M1272
DSC1329 ! X =   657.1500,   6084.300,    485.565,    0 !   !END!  GR_M1273
DSC1330 ! X =   657.2000,   6084.300,    485.042,    0 !   !END!  GR_M1274
DSC1331 ! X =   657.2500,   6084.300,    486.991,    0 !   !END!  GR_M1275
DSC1332 ! X =   657.3000,   6084.300,    487.900,    0 !   !END!  GR_M1276
DSC1333 ! X =   656.3000,   6084.350,    468.000,    0 !   !END!  GR_M1277
DSC1334 ! X =   656.3500,   6084.350,    468.000,    0 !   !END!  GR_M1278
DSC1335 ! X =   656.4000,   6084.350,    468.000,    0 !   !END!  GR_M1279
DSC1336 ! X =   656.4500,   6084.350,    468.000,    0 !   !END!  GR_M1280
DSC1337 ! X =   656.5000,   6084.350,    468.000,    0 !   !END!  GR_M1281
DSC1338 ! X =   656.5500,   6084.350,    468.000,    0 !   !END!  GR_M1282
DSC1339 ! X =   656.6000,   6084.350,    468.000,    0 !   !END!  GR_M1283
DSC1340 ! X =   656.6500,   6084.350,    468.000,    0 !   !END!  GR_M1284
DSC1341 ! X =   656.7000,   6084.350,    468.000,    0 !   !END!  GR_M1285
DSC1342 ! X =   656.7500,   6084.350,    468.935,    0 !   !END!  GR_M1286
DSC1343 ! X =   656.8000,   6084.350,    472.602,    0 !   !END!  GR_M1287
DSC1344 ! X =   656.8500,   6084.350,    476.182,    0 !   !END!  GR_M1288
DSC1345 ! X =   656.9000,   6084.350,    481.714,    0 !   !END!  GR_M1289
DSC1346 ! X =   656.9500,   6084.350,    485.575,    0 !   !END!  GR_M1290
DSC1347 ! X =   657.0000,   6084.350,    487.567,    0 !   !END!  GR_M1291
DSC1348 ! X =   657.0500,   6084.350,    489.000,    0 !   !END!  GR_M1292
DSC1349 ! X =   657.1000,   6084.350,    487.221,    0 !   !END!  GR_M1293
DSC1350 ! X =   657.1500,   6084.350,    487.042,    0 !   !END!  GR_M1294
DSC1351 ! X =   657.2000,   6084.350,    486.349,    0 !   !END!  GR_M1295
DSC1352 ! X =   657.2500,   6084.350,    488.000,    0 !   !END!  GR_M1296
DSC1353 ! X =   657.3000,   6084.350,    488.000,    0 !   !END!  GR_M1297
DSC1354 ! X =   656.3000,   6084.400,    468.000,    0 !   !END!  GR_M1298
DSC1355 ! X =   656.3500,   6084.400,    468.000,    0 !   !END!  GR_M1299
DSC1356 ! X =   656.4000,   6084.400,    468.000,    0 !   !END!  GR_M1300
DSC1357 ! X =   656.4500,   6084.400,    468.000,    0 !   !END!  GR_M1301
DSC1358 ! X =   656.5000,   6084.400,    468.000,    0 !   !END!  GR_M1302
DSC1359 ! X =   656.5500,   6084.400,    468.000,    0 !   !END!  GR_M1303
DSC1360 ! X =   656.6000,   6084.400,    468.000,    0 !   !END!  GR_M1304
DSC1361 ! X =   656.6500,   6084.400,    468.000,    0 !   !END!  GR_M1305
DSC1362 ! X =   656.7000,   6084.400,    468.207,    0 !   !END!  GR_M1306
DSC1363 ! X =   656.7500,   6084.400,    472.772,    0 !   !END!  GR_M1307
DSC1364 ! X =   656.8000,   6084.400,    476.317,    0 !   !END!  GR_M1308
DSC1365 ! X =   656.8500,   6084.400,    480.834,    0 !   !END!  GR_M1309
DSC1366 ! X =   656.9000,   6084.400,    486.180,    0 !   !END!  GR_M1310
DSC1367 ! X =   656.9500,   6084.400,    488.304,    0 !   !END!  GR_M1311
DSC1368 ! X =   657.0000,   6084.400,    489.000,    0 !   !END!  GR_M1312
DSC1369 ! X =   657.0500,   6084.400,    489.819,    0 !   !END!  GR_M1313
DSC1370 ! X =   657.1000,   6084.400,    488.274,    0 !   !END!  GR_M1314
DSC1371 ! X =   657.1500,   6084.400,    488.049,    0 !   !END!  GR_M1315
DSC1372 ! X =   657.2000,   6084.400,    487.120,    0 !   !END!  GR_M1316
DSC1373 ! X =   657.2500,   6084.400,    488.000,    0 !   !END!  GR_M1317
DSC1374 ! X =   657.3000,   6084.400,    488.000,    0 !   !END!  GR_M1318
DSC1375 ! X =   656.3000,   6084.450,    468.000,    0 !   !END!  GR_M1319
DSC1376 ! X =   656.3500,   6084.450,    468.000,    0 !   !END!  GR_M1320
DSC1377 ! X =   656.4000,   6084.450,    468.000,    0 !   !END!  GR_M1321
DSC1378 ! X =   656.4500,   6084.450,    468.000,    0 !   !END!  GR_M1322
DSC1379 ! X =   656.5000,   6084.450,    468.000,    0 !   !END!  GR_M1323
DSC1380 ! X =   656.5500,   6084.450,    468.000,    0 !   !END!  GR_M1324
DSC1381 ! X =   656.6000,   6084.450,    468.000,    0 !   !END!  GR_M1325
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DSC1382 ! X =   656.6500,   6084.450,    468.000,    0 !   !END!  GR_M1326
DSC1383 ! X =   656.7000,   6084.450,    472.277,    0 !   !END!  GR_M1327
DSC1384 ! X =   656.7500,   6084.450,    475.939,    0 !   !END!  GR_M1328
DSC1385 ! X =   656.8000,   6084.450,    479.602,    0 !   !END!  GR_M1329
DSC1386 ! X =   656.8500,   6084.450,    485.067,    0 !   !END!  GR_M1330
DSC1387 ! X =   656.9000,   6084.450,    488.731,    0 !   !END!  GR_M1331
DSC1388 ! X =   656.9500,   6084.450,    489.654,    0 !   !END!  GR_M1332
DSC1389 ! X =   657.0000,   6084.450,    490.000,    0 !   !END!  GR_M1333
DSC1390 ! X =   657.0500,   6084.450,    490.000,    0 !   !END!  GR_M1334
DSC1391 ! X =   657.1000,   6084.450,    489.000,    0 !   !END!  GR_M1335
DSC1392 ! X =   657.1500,   6084.450,    488.429,    0 !   !END!  GR_M1336
DSC1393 ! X =   657.2000,   6084.450,    488.000,    0 !   !END!  GR_M1337
DSC1394 ! X =   657.2500,   6084.450,    488.000,    0 !   !END!  GR_M1338
DSC1395 ! X =   657.3000,   6084.450,    488.000,    0 !   !END!  GR_M1339
DSC1396 ! X =   656.3000,   6084.500,    468.000,    0 !   !END!  GR_M1340
DSC1397 ! X =   656.3500,   6084.500,    468.000,    0 !   !END!  GR_M1341
DSC1398 ! X =   656.4000,   6084.500,    468.000,    0 !   !END!  GR_M1342
DSC1399 ! X =   656.4500,   6084.500,    468.000,    0 !   !END!  GR_M1343
DSC1400 ! X =   656.5000,   6084.500,    468.000,    0 !   !END!  GR_M1344
DSC1401 ! X =   656.5500,   6084.500,    468.000,    0 !   !END!  GR_M1345
DSC1402 ! X =   656.6000,   6084.500,    468.000,    0 !   !END!  GR_M1346
DSC1403 ! X =   656.6500,   6084.500,    469.798,    0 !   !END!  GR_M1347
DSC1404 ! X =   656.7000,   6084.500,    474.562,    0 !   !END!  GR_M1348
DSC1405 ! X =   656.7500,   6084.500,    479.224,    0 !   !END!  GR_M1349
DSC1406 ! X =   656.8000,   6084.500,    482.886,    0 !   !END!  GR_M1350
DSC1407 ! X =   656.8500,   6084.500,    487.549,    0 !   !END!  GR_M1351
DSC1408 ! X =   656.9000,   6084.500,    489.920,    0 !   !END!  GR_M1352
DSC1409 ! X =   656.9500,   6084.500,    491.000,    0 !   !END!  GR_M1353
DSC1410 ! X =   657.0000,   6084.500,    491.000,    0 !   !END!  GR_M1354
DSC1411 ! X =   657.0500,   6084.500,    490.000,    0 !   !END!  GR_M1355
DSC1412 ! X =   657.1000,   6084.500,    489.422,    0 !   !END!  GR_M1356
DSC1413 ! X =   657.1500,   6084.500,    488.984,    0 !   !END!  GR_M1357
DSC1414 ! X =   657.2000,   6084.500,    488.000,    0 !   !END!  GR_M1358
DSC1415 ! X =   657.2500,   6084.500,    488.000,    0 !   !END!  GR_M1359
DSC1416 ! X =   657.3000,   6084.500,    488.000,    0 !   !END!  GR_M1360
DSC1417 ! X =   656.3000,   6084.550,    468.000,    0 !   !END!  GR_M1361
DSC1418 ! X =   656.3500,   6084.550,    468.000,    0 !   !END!  GR_M1362
DSC1419 ! X =   656.4000,   6084.550,    468.000,    0 !   !END!  GR_M1363
DSC1420 ! X =   656.4500,   6084.550,    468.000,    0 !   !END!  GR_M1364
DSC1421 ! X =   656.5000,   6084.550,    468.000,    0 !   !END!  GR_M1365
DSC1422 ! X =   656.5500,   6084.550,    468.000,    0 !   !END!  GR_M1366
DSC1423 ! X =   656.6000,   6084.550,    469.043,    0 !   !END!  GR_M1367
DSC1424 ! X =   656.6500,   6084.550,    473.281,    0 !   !END!  GR_M1368
DSC1425 ! X =   656.7000,   6084.550,    476.846,    0 !   !END!  GR_M1369
DSC1426 ! X =   656.7500,   6084.550,    481.246,    0 !   !END!  GR_M1370
DSC1427 ! X =   656.8000,   6084.550,    485.171,    0 !   !END!  GR_M1371
DSC1428 ! X =   656.8500,   6084.550,    488.720,    0 !   !END!  GR_M1372
DSC1429 ! X =   656.9000,   6084.550,    490.459,    0 !   !END!  GR_M1373
DSC1430 ! X =   656.9500,   6084.550,    491.000,    0 !   !END!  GR_M1374
DSC1431 ! X =   657.0000,   6084.550,    491.000,    0 !   !END!  GR_M1375
DSC1432 ! X =   657.0500,   6084.550,    490.000,    0 !   !END!  GR_M1376
DSC1433 ! X =   657.1000,   6084.550,    489.155,    0 !   !END!  GR_M1377
DSC1434 ! X =   657.1500,   6084.550,    489.000,    0 !   !END!  GR_M1378
DSC1435 ! X =   657.2000,   6084.550,    488.000,    0 !   !END!  GR_M1379
DSC1436 ! X =   657.2500,   6084.550,    488.000,    0 !   !END!  GR_M1380
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DSC1437 ! X =   657.3000,   6084.550,    487.000,    0 !   !END!  GR_M1381
DSC1438 ! X =   656.3000,   6084.600,    468.000,    0 !   !END!  GR_M1382
DSC1439 ! X =   656.3500,   6084.600,    468.000,    0 !   !END!  GR_M1383
DSC1440 ! X =   656.4000,   6084.600,    468.000,    0 !   !END!  GR_M1384
DSC1441 ! X =   656.4500,   6084.600,    468.000,    0 !   !END!  GR_M1385
DSC1442 ! X =   656.5000,   6084.600,    468.000,    0 !   !END!  GR_M1386
DSC1443 ! X =   656.5500,   6084.600,    468.000,    0 !   !END!  GR_M1387
DSC1444 ! X =   656.6000,   6084.600,    472.268,    0 !   !END!  GR_M1388
DSC1445 ! X =   656.6500,   6084.600,    476.474,    0 !   !END!  GR_M1389
DSC1446 ! X =   656.7000,   6084.600,    479.131,    0 !   !END!  GR_M1390
DSC1447 ! X =   656.7500,   6084.600,    482.794,    0 !   !END!  GR_M1391
DSC1448 ! X =   656.8000,   6084.600,    486.421,    0 !   !END!  GR_M1392
DSC1449 ! X =   656.8500,   6084.600,    489.000,    0 !   !END!  GR_M1393
DSC1450 ! X =   656.9000,   6084.600,    489.000,    0 !   !END!  GR_M1394
DSC1451 ! X =   656.9500,   6084.600,    491.000,    0 !   !END!  GR_M1395
DSC1452 ! X =   657.0000,   6084.600,    490.897,    0 !   !END!  GR_M1396
DSC1453 ! X =   657.0500,   6084.600,    490.000,    0 !   !END!  GR_M1397
DSC1454 ! X =   657.1000,   6084.600,    489.000,    0 !   !END!  GR_M1398
DSC1455 ! X =   657.1500,   6084.600,    488.725,    0 !   !END!  GR_M1399
DSC1456 ! X =   657.2000,   6084.600,    488.000,    0 !   !END!  GR_M1400
DSC1457 ! X =   657.2500,   6084.600,    487.000,    0 !   !END!  GR_M1401
DSC1458 ! X =   657.3000,   6084.600,    486.711,    0 !   !END!  GR_M1402
DSC1459 ! X =   656.3000,   6084.650,    468.000,    0 !   !END!  GR_M1403
DSC1460 ! X =   656.3500,   6084.650,    468.000,    0 !   !END!  GR_M1404
DSC1461 ! X =   656.4000,   6084.650,    468.000,    0 !   !END!  GR_M1405
DSC1462 ! X =   656.4500,   6084.650,    468.000,    0 !   !END!  GR_M1406
DSC1463 ! X =   656.5000,   6084.650,    468.000,    0 !   !END!  GR_M1407
DSC1464 ! X =   656.5500,   6084.650,    471.304,    0 !   !END!  GR_M1408
DSC1465 ! X =   656.6000,   6084.650,    475.091,    0 !   !END!  GR_M1409
DSC1466 ! X =   656.6500,   6084.650,    478.758,    0 !   !END!  GR_M1410
DSC1467 ! X =   656.7000,   6084.650,    481.416,    0 !   !END!  GR_M1411
DSC1468 ! X =   656.7500,   6084.650,    484.789,    0 !   !END!  GR_M1412
DSC1469 ! X =   656.8000,   6084.650,    489.000,    0 !   !END!  GR_M1413
DSC1470 ! X =   656.8500,   6084.650,    489.000,    0 !   !END!  GR_M1414
DSC1471 ! X =   656.9000,   6084.650,    489.000,    0 !   !END!  GR_M1415
DSC1472 ! X =   656.9500,   6084.650,    489.000,    0 !   !END!  GR_M1416
DSC1473 ! X =   657.0000,   6084.650,    489.962,    0 !   !END!  GR_M1417
DSC1474 ! X =   657.0500,   6084.650,    489.000,    0 !   !END!  GR_M1418
DSC1475 ! X =   657.1000,   6084.650,    488.955,    0 !   !END!  GR_M1419
DSC1476 ! X =   657.1500,   6084.650,    488.000,    0 !   !END!  GR_M1420
DSC1477 ! X =   657.2000,   6084.650,    487.871,    0 !   !END!  GR_M1421
DSC1478 ! X =   657.2500,   6084.650,    486.276,    0 !   !END!  GR_M1422
DSC1479 ! X =   657.3000,   6084.650,    485.535,    0 !   !END!  GR_M1423
DSC1480 ! X =   656.3000,   6084.700,    468.000,    0 !   !END!  GR_M1424
DSC1481 ! X =   656.3500,   6084.700,    468.000,    0 !   !END!  GR_M1425
DSC1482 ! X =   656.4000,   6084.700,    468.000,    0 !   !END!  GR_M1426
DSC1483 ! X =   656.4500,   6084.700,    468.038,    0 !   !END!  GR_M1427
DSC1484 ! X =   656.5000,   6084.700,    470.051,    0 !   !END!  GR_M1428
DSC1485 ! X =   656.5500,   6084.700,    473.734,    0 !   !END!  GR_M1429
DSC1486 ! X =   656.6000,   6084.700,    477.376,    0 !   !END!  GR_M1430
DSC1487 ! X =   656.6500,   6084.700,    481.038,    0 !   !END!  GR_M1431
DSC1488 ! X =   656.7000,   6084.700,    483.706,    0 !   !END!  GR_M1432
DSC1489 ! X =   656.7500,   6084.700,    489.000,    0 !   !END!  GR_M1433
DSC1490 ! X =   656.8000,   6084.700,    489.000,    0 !   !END!  GR_M1434
DSC1491 ! X =   656.8500,   6084.700,    489.000,    0 !   !END!  GR_M1435
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DSC1492 ! X =   656.9000,   6084.700,    489.000,    0 !   !END!  GR_M1436
DSC1493 ! X =   656.9500,   6084.700,    489.000,    0 !   !END!  GR_M1437
DSC1494 ! X =   657.0000,   6084.700,    489.000,    0 !   !END!  GR_M1438
DSC1495 ! X =   657.0500,   6084.700,    488.679,    0 !   !END!  GR_M1439
DSC1496 ! X =   657.1000,   6084.700,    488.000,    0 !   !END!  GR_M1440
DSC1497 ! X =   657.1500,   6084.700,    487.931,    0 !   !END!  GR_M1441
DSC1498 ! X =   657.2000,   6084.700,    486.986,    0 !   !END!  GR_M1442
DSC1499 ! X =   657.2500,   6084.700,    485.988,    0 !   !END!  GR_M1443
DSC1500 ! X =   657.3000,   6084.700,    484.325,    0 !   !END!  GR_M1444
DSC1501 ! X =   656.3000,   6084.750,    468.000,    0 !   !END!  GR_M1445
DSC1502 ! X =   656.3500,   6084.750,    468.000,    0 !   !END!  GR_M1446
DSC1503 ! X =   656.4000,   6084.750,    468.000,    0 !   !END!  GR_M1447
DSC1504 ! X =   656.4500,   6084.750,    470.555,    0 !   !END!  GR_M1448
DSC1505 ! X =   656.5000,   6084.750,    472.336,    0 !   !END!  GR_M1449
DSC1506 ! X =   656.5500,   6084.750,    477.003,    0 !   !END!  GR_M1450
DSC1507 ! X =   656.6000,   6084.750,    480.661,    0 !   !END!  GR_M1451
DSC1508 ! X =   656.6500,   6084.750,    483.323,    0 !   !END!  GR_M1452
DSC1509 ! X =   656.7000,   6084.750,    489.000,    0 !   !END!  GR_M1453
DSC1510 ! X =   656.7500,   6084.750,    489.000,    0 !   !END!  GR_M1454
DSC1511 ! X =   656.8000,   6084.750,    489.000,    0 !   !END!  GR_M1455
DSC1512 ! X =   656.8500,   6084.750,    489.000,    0 !   !END!  GR_M1456
DSC1513 ! X =   656.9000,   6084.750,    489.000,    0 !   !END!  GR_M1457
DSC1514 ! X =   656.9500,   6084.750,    489.000,    0 !   !END!  GR_M1458
DSC1515 ! X =   657.0000,   6084.750,    489.000,    0 !   !END!  GR_M1459
DSC1516 ! X =   657.0500,   6084.750,    489.000,    0 !   !END!  GR_M1460
DSC1517 ! X =   657.1000,   6084.750,    487.645,    0 !   !END!  GR_M1461
DSC1518 ! X =   657.1500,   6084.750,    487.000,    0 !   !END!  GR_M1462
DSC1519 ! X =   657.2000,   6084.750,    485.916,    0 !   !END!  GR_M1463
DSC1520 ! X =   657.2500,   6084.750,    484.746,    0 !   !END!  GR_M1464
DSC1521 ! X =   657.3000,   6084.750,    483.947,    0 !   !END!  GR_M1465
DSC1522 ! X =   656.3000,   6084.800,    468.000,    0 !   !END!  GR_M1466
DSC1523 ! X =   656.3500,   6084.800,    468.000,    0 !   !END!  GR_M1467
DSC1524 ! X =   656.4000,   6084.800,    472.186,    0 !   !END!  GR_M1468
DSC1525 ! X =   656.4500,   6084.800,    473.250,    0 !   !END!  GR_M1469
DSC1526 ! X =   656.5000,   6084.800,    475.156,    0 !   !END!  GR_M1470
DSC1527 ! X =   656.5500,   6084.800,    479.611,    0 !   !END!  GR_M1471
DSC1528 ! X =   656.6000,   6084.800,    482.946,    0 !   !END!  GR_M1472
DSC1529 ! X =   656.6500,   6084.800,    489.000,    0 !   !END!  GR_M1473
DSC1530 ! X =   656.7000,   6084.800,    489.000,    0 !   !END!  GR_M1474
DSC1531 ! X =   656.7500,   6084.800,    489.000,    0 !   !END!  GR_M1475
DSC1532 ! X =   656.8500,   6084.800,    489.000,    0 !   !END!  GR_M1476
DSC1533 ! X =   656.9000,   6084.800,    489.000,    0 !   !END!  GR_M1477
DSC1534 ! X =   656.9500,   6084.800,    489.000,    0 !   !END!  GR_M1478
DSC1535 ! X =   657.0000,   6084.800,    489.000,    0 !   !END!  GR_M1479
DSC1536 ! X =   657.0500,   6084.800,    489.000,    0 !   !END!  GR_M1480
DSC1537 ! X =   657.1000,   6084.800,    486.490,    0 !   !END!  GR_M1481
DSC1538 ! X =   657.1500,   6084.800,    486.000,    0 !   !END!  GR_M1482
DSC1539 ! X =   657.2000,   6084.800,    484.806,    0 !   !END!  GR_M1483
DSC1540 ! X =   657.2500,   6084.800,    483.517,    0 !   !END!  GR_M1484
DSC1541 ! X =   657.3000,   6084.800,    482.794,    0 !   !END!  GR_M1485
DSC1542 ! X =   656.3000,   6084.850,    468.000,    0 !   !END!  GR_M1486
DSC1543 ! X =   656.3500,   6084.850,    471.351,    0 !   !END!  GR_M1487
DSC1544 ! X =   656.4000,   6084.850,    475.307,    0 !   !END!  GR_M1488
DSC1545 ! X =   656.4500,   6084.850,    477.031,    0 !   !END!  GR_M1489
DSC1546 ! X =   656.5000,   6084.850,    479.474,    0 !   !END!  GR_M1490
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DSC1547 ! X =   656.5500,   6084.850,    482.573,    0 !   !END!  GR_M1491
DSC1548 ! X =   656.6000,   6084.850,    489.000,    0 !   !END!  GR_M1492
DSC1549 ! X =   656.6500,   6084.850,    489.000,    0 !   !END!  GR_M1493
DSC1550 ! X =   656.7000,   6084.850,    489.000,    0 !   !END!  GR_M1494
DSC1551 ! X =   656.7500,   6084.850,    489.000,    0 !   !END!  GR_M1495
DSC1552 ! X =   656.8000,   6084.850,    489.000,    0 !   !END!  GR_M1496
DSC1553 ! X =   656.8500,   6084.850,    489.000,    0 !   !END!  GR_M1497
DSC1554 ! X =   656.9000,   6084.850,    489.000,    0 !   !END!  GR_M1498
DSC1555 ! X =   656.9500,   6084.850,    489.000,    0 !   !END!  GR_M1499
DSC1556 ! X =   657.0000,   6084.850,    487.000,    0 !   !END!  GR_M1500
DSC1557 ! X =   657.0500,   6084.850,    486.000,    0 !   !END!  GR_M1501
DSC1558 ! X =   657.1000,   6084.850,    485.334,    0 !   !END!  GR_M1502
DSC1559 ! X =   657.1500,   6084.850,    484.451,    0 !   !END!  GR_M1503
DSC1560 ! X =   657.2000,   6084.850,    483.161,    0 !   !END!  GR_M1504
DSC1561 ! X =   657.2500,   6084.850,    482.332,    0 !   !END!  GR_M1505
DSC1562 ! X =   657.3000,   6084.850,    482.456,    0 !   !END!  GR_M1506
DSC1563 ! X =   656.3000,   6084.900,    470.553,    0 !   !END!  GR_M1507
DSC1564 ! X =   656.3500,   6084.900,    474.445,    0 !   !END!  GR_M1508
DSC1565 ! X =   656.4000,   6084.900,    478.738,    0 !   !END!  GR_M1509
DSC1566 ! X =   656.4500,   6084.900,    480.600,    0 !   !END!  GR_M1510
DSC1567 ! X =   656.5000,   6084.900,    482.914,    0 !   !END!  GR_M1511
DSC1568 ! X =   656.5500,   6084.900,    485.646,    0 !   !END!  GR_M1512
DSC1569 ! X =   656.6000,   6084.900,    489.000,    0 !   !END!  GR_M1513
DSC1570 ! X =   656.6500,   6084.900,    489.000,    0 !   !END!  GR_M1514
DSC1571 ! X =   656.7000,   6084.900,    489.000,    0 !   !END!  GR_M1515
DSC1572 ! X =   656.7500,   6084.900,    489.000,    0 !   !END!  GR_M1516
DSC1573 ! X =   656.8000,   6084.900,    489.000,    0 !   !END!  GR_M1517
DSC1574 ! X =   656.8500,   6084.900,    489.000,    0 !   !END!  GR_M1518
DSC1575 ! X =   656.9000,   6084.900,    489.000,    0 !   !END!  GR_M1519
DSC1576 ! X =   656.9500,   6084.900,    487.000,    0 !   !END!  GR_M1520
DSC1577 ! X =   657.0000,   6084.900,    486.030,    0 !   !END!  GR_M1521
DSC1578 ! X =   657.0500,   6084.900,    485.102,    0 !   !END!  GR_M1522
DSC1579 ! X =   657.1000,   6084.900,    484.179,    0 !   !END!  GR_M1523
DSC1580 ! X =   657.1500,   6084.900,    483.240,    0 !   !END!  GR_M1524
DSC1581 ! X =   657.2000,   6084.900,    481.465,    0 !   !END!  GR_M1525
DSC1582 ! X =   657.2500,   6084.900,    481.536,    0 !   !END!  GR_M1526
DSC1583 ! X =   657.3000,   6084.900,    483.000,    0 !   !END!  GR_M1527
DSC1584 ! X =   656.3000,   6084.950,    473.830,    0 !   !END!  GR_M1528
DSC1585 ! X =   656.3500,   6084.950,    477.592,    0 !   !END!  GR_M1529
DSC1586 ! X =   656.4000,   6084.950,    481.178,    0 !   !END!  GR_M1530
DSC1587 ! X =   656.4500,   6084.950,    483.949,    0 !   !END!  GR_M1531
DSC1588 ! X =   656.5000,   6084.950,    485.878,    0 !   !END!  GR_M1532
DSC1589 ! X =   656.5500,   6084.950,    487.802,    0 !   !END!  GR_M1533
DSC1590 ! X =   656.6000,   6084.950,    489.000,    0 !   !END!  GR_M1534
DSC1591 ! X =   656.6500,   6084.950,    489.000,    0 !   !END!  GR_M1535
DSC1592 ! X =   656.7000,   6084.950,    489.000,    0 !   !END!  GR_M1536
DSC1593 ! X =   656.7500,   6084.950,    489.000,    0 !   !END!  GR_M1537
DSC1594 ! X =   656.8000,   6084.950,    489.000,    0 !   !END!  GR_M1538
DSC1595 ! X =   656.8500,   6084.950,    489.000,    0 !   !END!  GR_M1539
DSC1596 ! X =   656.9000,   6084.950,    488.000,    0 !   !END!  GR_M1540
DSC1597 ! X =   656.9500,   6084.950,    486.760,    0 !   !END!  GR_M1541
DSC1598 ! X =   657.0000,   6084.950,    485.878,    0 !   !END!  GR_M1542
DSC1599 ! X =   657.0500,   6084.950,    484.267,    0 !   !END!  GR_M1543
DSC1600 ! X =   657.1000,   6084.950,    483.558,    0 !   !END!  GR_M1544
DSC1601 ! X =   657.1500,   6084.950,    481.827,    0 !   !END!  GR_M1545
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DSC1602 ! X =   657.2000,   6084.950,    480.943,    0 !   !END!  GR_M1546
DSC1603 ! X =   657.2500,   6084.950,    481.917,    0 !   !END!  GR_M1547
DSC1604 ! X =   657.3000,   6084.950,    483.405,    0 !   !END!  GR_M1548
DSC1605 ! X =   656.3000,   6085.000,    477.115,    0 !   !END!  GR_M1549
DSC1606 ! X =   656.3500,   6085.000,    480.773,    0 !   !END!  GR_M1550
DSC1607 ! X =   656.4000,   6085.000,    484.435,    0 !   !END!  GR_M1551
DSC1608 ! X =   656.4500,   6085.000,    487.102,    0 !   !END!  GR_M1552
DSC1609 ! X =   656.5000,   6085.000,    488.034,    0 !   !END!  GR_M1553
DSC1610 ! X =   656.5500,   6085.000,    489.000,    0 !   !END!  GR_M1554
DSC1611 ! X =   656.6000,   6085.000,    489.000,    0 !   !END!  GR_M1555
DSC1612 ! X =   656.6500,   6085.000,    489.000,    0 !   !END!  GR_M1556
DSC1613 ! X =   656.7000,   6085.000,    489.000,    0 !   !END!  GR_M1557
DSC1614 ! X =   656.7500,   6085.000,    489.000,    0 !   !END!  GR_M1558
DSC1615 ! X =   656.8000,   6085.000,    489.000,    0 !   !END!  GR_M1559
DSC1616 ! X =   656.8500,   6085.000,    488.000,    0 !   !END!  GR_M1560
DSC1617 ! X =   656.9000,   6085.000,    483.000,    0 !   !END!  GR_M1561
DSC1618 ! X =   656.9500,   6085.000,    483.000,    0 !   !END!  GR_M1562
DSC1619 ! X =   657.0000,   6085.000,    483.000,    0 !   !END!  GR_M1563
DSC1620 ! X =   657.0500,   6085.000,    483.824,    0 !   !END!  GR_M1564
DSC1621 ! X =   657.1000,   6085.000,    482.359,    0 !   !END!  GR_M1565
DSC1622 ! X =   657.1500,   6085.000,    480.983,    0 !   !END!  GR_M1566
DSC1623 ! X =   657.2000,   6085.000,    481.000,    0 !   !END!  GR_M1567
DSC1624 ! X =   657.2500,   6085.000,    482.000,    0 !   !END!  GR_M1568
DSC1625 ! X =   657.3000,   6085.000,    484.000,    0 !   !END!  GR_M1569
DSC1626 ! X =   656.3000,   6085.050,    478.909,    0 !   !END!  GR_M1570
DSC1627 ! X =   656.3500,   6085.050,    483.058,    0 !   !END!  GR_M1571
DSC1628 ! X =   656.4000,   6085.050,    486.720,    0 !   !END!  GR_M1572
DSC1629 ! X =   656.4500,   6085.050,    488.355,    0 !   !END!  GR_M1573
DSC1630 ! X =   656.5000,   6085.050,    489.000,    0 !   !END!  GR_M1574
DSC1631 ! X =   656.5500,   6085.050,    489.000,    0 !   !END!  GR_M1575
DSC1632 ! X =   656.6000,   6085.050,    489.000,    0 !   !END!  GR_M1576
DSC1633 ! X =   656.6500,   6085.050,    489.000,    0 !   !END!  GR_M1577
DSC1634 ! X =   656.7000,   6085.050,    489.000,    0 !   !END!  GR_M1578
DSC1635 ! X =   656.7500,   6085.050,    489.000,    0 !   !END!  GR_M1579
DSC1636 ! X =   656.8000,   6085.050,    488.000,    0 !   !END!  GR_M1580
DSC1637 ! X =   656.8500,   6085.050,    483.000,    0 !   !END!  GR_M1581
DSC1638 ! X =   656.9000,   6085.050,    483.000,    0 !   !END!  GR_M1582
DSC1639 ! X =   656.9500,   6085.050,    483.000,    0 !   !END!  GR_M1583
DSC1640 ! X =   657.0000,   6085.050,    483.000,    0 !   !END!  GR_M1584
DSC1641 ! X =   657.0500,   6085.050,    483.000,    0 !   !END!  GR_M1585
DSC1642 ! X =   657.1000,   6085.050,    481.714,    0 !   !END!  GR_M1586
DSC1643 ! X =   657.1500,   6085.050,    480.000,    0 !   !END!  GR_M1587
DSC1644 ! X =   657.2000,   6085.050,    481.000,    0 !   !END!  GR_M1588
DSC1645 ! X =   657.2500,   6085.050,    482.930,    0 !   !END!  GR_M1589
DSC1646 ! X =   657.3000,   6085.050,    484.000,    0 !   !END!  GR_M1590
DSC1647 ! X =   656.3000,   6085.100,    479.718,    0 !   !END!  GR_M1591
DSC1648 ! X =   656.3500,   6085.100,    485.347,    0 !   !END!  GR_M1592
DSC1649 ! X =   656.4000,   6085.100,    488.252,    0 !   !END!  GR_M1593
DSC1650 ! X =   656.4500,   6085.100,    489.000,    0 !   !END!  GR_M1594
DSC1651 ! X =   656.5000,   6085.100,    489.000,    0 !   !END!  GR_M1595
DSC1652 ! X =   656.5500,   6085.100,    489.000,    0 !   !END!  GR_M1596
DSC1653 ! X =   656.6000,   6085.100,    489.000,    0 !   !END!  GR_M1597
DSC1654 ! X =   656.6500,   6085.100,    489.000,    0 !   !END!  GR_M1598
DSC1655 ! X =   656.7000,   6085.100,    489.000,    0 !   !END!  GR_M1599
DSC1656 ! X =   656.7500,   6085.100,    488.000,    0 !   !END!  GR_M1600
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DSC1657 ! X =   656.8000,   6085.100,    483.000,    0 !   !END!  GR_M1601
DSC1658 ! X =   656.8500,   6085.100,    483.000,    0 !   !END!  GR_M1602
DSC1659 ! X =   656.9000,   6085.100,    483.000,    0 !   !END!  GR_M1603
DSC1660 ! X =   656.9500,   6085.100,    483.000,    0 !   !END!  GR_M1604
DSC1661 ! X =   657.0000,   6085.100,    483.000,    0 !   !END!  GR_M1605
DSC1662 ! X =   657.0500,   6085.100,    483.000,    0 !   !END!  GR_M1606
DSC1663 ! X =   657.1000,   6085.100,    483.000,    0 !   !END!  GR_M1607
DSC1664 ! X =   657.1500,   6085.100,    479.786,    0 !   !END!  GR_M1608
DSC1665 ! X =   657.2000,   6085.100,    481.000,    0 !   !END!  GR_M1609
DSC1666 ! X =   657.2500,   6085.100,    483.013,    0 !   !END!  GR_M1610
DSC1667 ! X =   656.3000,   6085.150,    482.133,    0 !   !END!  GR_M1611
DSC1668 ! X =   656.3500,   6085.150,    487.632,    0 !   !END!  GR_M1612
DSC1669 ! X =   656.4000,   6085.150,    489.419,    0 !   !END!  GR_M1613
DSC1670 ! X =   656.4500,   6085.150,    490.000,    0 !   !END!  GR_M1614
DSC1671 ! X =   656.5000,   6085.150,    489.000,    0 !   !END!  GR_M1615
DSC1672 ! X =   656.5500,   6085.150,    489.000,    0 !   !END!  GR_M1616
DSC1673 ! X =   656.6000,   6085.150,    489.000,    0 !   !END!  GR_M1617
DSC1674 ! X =   656.6500,   6085.150,    489.000,    0 !   !END!  GR_M1618
DSC1675 ! X =   656.7000,   6085.150,    488.745,    0 !   !END!  GR_M1619
DSC1676 ! X =   656.7500,   6085.150,    483.000,    0 !   !END!  GR_M1620
DSC1677 ! X =   656.8000,   6085.150,    483.000,    0 !   !END!  GR_M1621
DSC1678 ! X =   656.8500,   6085.150,    483.000,    0 !   !END!  GR_M1622
DSC1679 ! X =   656.9000,   6085.150,    483.000,    0 !   !END!  GR_M1623
DSC1680 ! X =   656.9500,   6085.150,    483.000,    0 !   !END!  GR_M1624
DSC1681 ! X =   657.0000,   6085.150,    483.000,    0 !   !END!  GR_M1625
DSC1682 ! X =   657.0500,   6085.150,    483.000,    0 !   !END!  GR_M1626
DSC1683 ! X =   657.1000,   6085.150,    483.000,    0 !   !END!  GR_M1627
DSC1684 ! X =   657.1500,   6085.150,    479.715,    0 !   !END!  GR_M1628
DSC1685 ! X =   657.2000,   6085.150,    481.454,    0 !   !END!  GR_M1629
DSC1686 ! X =   657.2500,   6085.150,    483.489,    0 !   !END!  GR_M1630
DSC1687 ! X =   656.3000,   6085.200,    486.216,    0 !   !END!  GR_M1631
DSC1688 ! X =   656.3500,   6085.200,    489.032,    0 !   !END!  GR_M1632
DSC1689 ! X =   656.4000,   6085.200,    490.000,    0 !   !END!  GR_M1633
DSC1690 ! X =   656.4500,   6085.200,    491.000,    0 !   !END!  GR_M1634
DSC1691 ! X =   656.5000,   6085.200,    491.000,    0 !   !END!  GR_M1635
DSC1692 ! X =   656.5500,   6085.200,    489.000,    0 !   !END!  GR_M1636
DSC1693 ! X =   656.6000,   6085.200,    490.000,    0 !   !END!  GR_M1637
DSC1694 ! X =   656.6500,   6085.200,    489.000,    0 !   !END!  GR_M1638
DSC1695 ! X =   656.7000,   6085.200,    488.000,    0 !   !END!  GR_M1639
DSC1696 ! X =   656.7500,   6085.200,    487.000,    0 !   !END!  GR_M1640
DSC1697 ! X =   656.8000,   6085.200,    483.000,    0 !   !END!  GR_M1641
DSC1698 ! X =   656.8500,   6085.200,    483.000,    0 !   !END!  GR_M1642
DSC1699 ! X =   656.9000,   6085.200,    483.000,    0 !   !END!  GR_M1643
DSC1700 ! X =   656.9500,   6085.200,    483.000,    0 !   !END!  GR_M1644
DSC1701 ! X =   657.0000,   6085.200,    483.000,    0 !   !END!  GR_M1645
DSC1702 ! X =   657.0500,   6085.200,    483.000,    0 !   !END!  GR_M1646
DSC1703 ! X =   657.1000,   6085.200,    479.000,    0 !   !END!  GR_M1647
DSC1704 ! X =   657.1500,   6085.200,    479.950,    0 !   !END!  GR_M1648
DSC1705 ! X =   657.2000,   6085.200,    481.833,    0 !   !END!  GR_M1649
DSC1706 ! X =   657.2500,   6085.200,    484.169,    0 !   !END!  GR_M1650
DSC1707 ! X =   656.3000,   6085.250,    489.534,    0 !   !END!  GR_M1651
DSC1708 ! X =   656.3500,   6085.250,    491.000,    0 !   !END!  GR_M1652
DSC1709 ! X =   656.4000,   6085.250,    491.000,    0 !   !END!  GR_M1653
DSC1710 ! X =   656.4500,   6085.250,    491.000,    0 !   !END!  GR_M1654
DSC1711 ! X =   656.5000,   6085.250,    490.693,    0 !   !END!  GR_M1655
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DSC1712 ! X =   656.5500,   6085.250,    490.000,    0 !   !END!  GR_M1656
DSC1713 ! X =   656.6000,   6085.250,    489.049,    0 !   !END!  GR_M1657
DSC1714 ! X =   656.6500,   6085.250,    488.651,    0 !   !END!  GR_M1658
DSC1715 ! X =   656.7000,   6085.250,    487.830,    0 !   !END!  GR_M1659
DSC1716 ! X =   656.7500,   6085.250,    486.529,    0 !   !END!  GR_M1660
DSC1717 ! X =   656.8000,   6085.250,    485.000,    0 !   !END!  GR_M1661
DSC1718 ! X =   656.8500,   6085.250,    483.000,    0 !   !END!  GR_M1662
DSC1719 ! X =   656.9000,   6085.250,    483.000,    0 !   !END!  GR_M1663
DSC1720 ! X =   656.9500,   6085.250,    483.000,    0 !   !END!  GR_M1664
DSC1721 ! X =   657.0000,   6085.250,    483.000,    0 !   !END!  GR_M1665
DSC1722 ! X =   657.0500,   6085.250,    478.510,    0 !   !END!  GR_M1666
DSC1723 ! X =   657.1000,   6085.250,    479.000,    0 !   !END!  GR_M1667
DSC1724 ! X =   657.1500,   6085.250,    480.813,    0 !   !END!  GR_M1668
DSC1725 ! X =   657.2000,   6085.250,    482.714,    0 !   !END!  GR_M1669
DSC1726 ! X =   657.2500,   6085.250,    484.823,    0 !   !END!  GR_M1670
DSC1727 ! X =   656.3000,   6085.300,    491.146,    0 !   !END!  GR_M1671
DSC1728 ! X =   656.3500,   6085.300,    492.000,    0 !   !END!  GR_M1672
DSC1729 ! X =   656.4000,   6085.300,    491.110,    0 !   !END!  GR_M1673
DSC1730 ! X =   656.4500,   6085.300,    491.000,    0 !   !END!  GR_M1674
DSC1731 ! X =   656.5000,   6085.300,    490.000,    0 !   !END!  GR_M1675
DSC1732 ! X =   656.5500,   6085.300,    489.084,    0 !   !END!  GR_M1676
DSC1733 ! X =   656.6000,   6085.300,    489.000,    0 !   !END!  GR_M1677
DSC1734 ! X =   656.6500,   6085.300,    488.000,    0 !   !END!  GR_M1678
DSC1735 ! X =   656.7000,   6085.300,    486.692,    0 !   !END!  GR_M1679
DSC1736 ! X =   656.7500,   6085.300,    485.332,    0 !   !END!  GR_M1680
DSC1737 ! X =   656.8000,   6085.300,    484.030,    0 !   !END!  GR_M1681
DSC1738 ! X =   656.8500,   6085.300,    482.704,    0 !   !END!  GR_M1682
DSC1739 ! X =   656.9000,   6085.300,    483.000,    0 !   !END!  GR_M1683
DSC1740 ! X =   656.9500,   6085.300,    483.000,    0 !   !END!  GR_M1684
DSC1741 ! X =   657.0000,   6085.300,    478.812,    0 !   !END!  GR_M1685
DSC1742 ! X =   657.0500,   6085.300,    478.000,    0 !   !END!  GR_M1686
DSC1743 ! X =   657.1000,   6085.300,    479.000,    0 !   !END!  GR_M1687
DSC1744 ! X =   657.1500,   6085.300,    481.107,    0 !   !END!  GR_M1688
DSC1745 ! X =   657.2000,   6085.300,    482.986,    0 !   !END!  GR_M1689
DSC1746 ! X =   657.2500,   6085.300,    485.000,    0 !   !END!  GR_M1690
DSC1747 ! X =   656.9000,   6083.700,    468.000,    0 !   !END!  GR_M1691
DSC1748 ! X =   656.9500,   6083.700,    468.000,    0 !   !END!  GR_M1692
DSC1749 ! X =   657.0000,   6083.700,    468.000,    0 !   !END!  GR_M1693
DSC1750 ! X =   657.0500,   6083.700,    468.000,    0 !   !END!  GR_M1694
DSC1751 ! X =   657.1000,   6083.700,    468.000,    0 !   !END!  GR_M1695
DSC1752 ! X =   657.1500,   6083.700,    468.000,    0 !   !END!  GR_M1696
DSC1753 ! X =   657.2000,   6083.700,    468.000,    0 !   !END!  GR_M1697
DSC1754 ! X =   657.2500,   6083.700,    468.000,    0 !   !END!  GR_M1698
DSC1755 ! X =   657.3000,   6083.700,    468.000,    0 !   !END!  GR_M1699
DSC1756 ! X =   657.3500,   6083.700,    468.000,    0 !   !END!  GR_M1700
DSC1757 ! X =   657.4000,   6083.700,    468.000,    0 !   !END!  GR_M1701
DSC1758 ! X =   657.4500,   6083.700,    472.922,    0 !   !END!  GR_M1702
DSC1759 ! X =   657.5000,   6083.700,    475.579,    0 !   !END!  GR_M1703
DSC1760 ! X =   657.5500,   6083.700,    478.242,    0 !   !END!  GR_M1704
DSC1761 ! X =   657.6000,   6083.700,    480.904,    0 !   !END!  GR_M1705
DSC1762 ! X =   657.6500,   6083.700,    483.566,    0 !   !END!  GR_M1706
DSC1763 ! X =   657.7000,   6083.700,    486.224,    0 !   !END!  GR_M1707
DSC1764 ! X =   657.7500,   6083.700,    487.886,    0 !   !END!  GR_M1708
DSC1765 ! X =   657.8000,   6083.700,    489.574,    0 !   !END!  GR_M1709
DSC1766 ! X =   657.8500,   6083.700,    492.952,    0 !   !END!  GR_M1710
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DSC1767 ! X =   657.9000,   6083.700,    495.869,    0 !   !END!  GR_M1711
DSC1768 ! X =   656.9000,   6083.750,    468.000,    0 !   !END!  GR_M1712
DSC1769 ! X =   656.9500,   6083.750,    468.000,    0 !   !END!  GR_M1713
DSC1770 ! X =   657.0000,   6083.750,    468.000,    0 !   !END!  GR_M1714
DSC1771 ! X =   657.0500,   6083.750,    468.000,    0 !   !END!  GR_M1715
DSC1772 ! X =   657.1000,   6083.750,    468.000,    0 !   !END!  GR_M1716
DSC1773 ! X =   657.1500,   6083.750,    468.000,    0 !   !END!  GR_M1717
DSC1774 ! X =   657.2000,   6083.750,    468.000,    0 !   !END!  GR_M1718
DSC1775 ! X =   657.2500,   6083.750,    468.000,    0 !   !END!  GR_M1719
DSC1776 ! X =   657.3000,   6083.750,    468.000,    0 !   !END!  GR_M1720
DSC1777 ! X =   657.3500,   6083.750,    468.000,    0 !   !END!  GR_M1721
DSC1778 ! X =   657.4000,   6083.750,    472.358,    0 !   !END!  GR_M1722
DSC1779 ! X =   657.4500,   6083.750,    475.206,    0 !   !END!  GR_M1723
DSC1780 ! X =   657.5000,   6083.750,    477.869,    0 !   !END!  GR_M1724
DSC1781 ! X =   657.5500,   6083.750,    480.526,    0 !   !END!  GR_M1725
DSC1782 ! X =   657.6000,   6083.750,    483.194,    0 !   !END!  GR_M1726
DSC1783 ! X =   657.6500,   6083.750,    485.851,    0 !   !END!  GR_M1727
DSC1784 ! X =   657.7000,   6083.750,    488.057,    0 !   !END!  GR_M1728
DSC1785 ! X =   657.7500,   6083.750,    489.924,    0 !   !END!  GR_M1729
DSC1786 ! X =   657.8000,   6083.750,    492.205,    0 !   !END!  GR_M1730
DSC1787 ! X =   657.8500,   6083.750,    495.496,    0 !   !END!  GR_M1731
DSC1788 ! X =   657.9000,   6083.750,    499.057,    0 !   !END!  GR_M1732
DSC1789 ! X =   656.9000,   6083.800,    468.000,    0 !   !END!  GR_M1733
DSC1790 ! X =   656.9500,   6083.800,    468.000,    0 !   !END!  GR_M1734
DSC1791 ! X =   657.0000,   6083.800,    468.000,    0 !   !END!  GR_M1735
DSC1792 ! X =   657.0500,   6083.800,    468.000,    0 !   !END!  GR_M1736
DSC1793 ! X =   657.1000,   6083.800,    468.000,    0 !   !END!  GR_M1737
DSC1794 ! X =   657.1500,   6083.800,    468.000,    0 !   !END!  GR_M1738
DSC1795 ! X =   657.2000,   6083.800,    468.000,    0 !   !END!  GR_M1739
DSC1796 ! X =   657.2500,   6083.800,    468.000,    0 !   !END!  GR_M1740
DSC1797 ! X =   657.3000,   6083.800,    468.386,    0 !   !END!  GR_M1741
DSC1798 ! X =   657.3500,   6083.800,    473.042,    0 !   !END!  GR_M1742
DSC1799 ! X =   657.4000,   6083.800,    474.955,    0 !   !END!  GR_M1743
DSC1800 ! X =   657.4500,   6083.800,    476.956,    0 !   !END!  GR_M1744
DSC1801 ! X =   657.5000,   6083.800,    479.811,    0 !   !END!  GR_M1745
DSC1802 ! X =   657.5500,   6083.800,    482.734,    0 !   !END!  GR_M1746
DSC1803 ! X =   657.6000,   6083.800,    485.478,    0 !   !END!  GR_M1747
DSC1804 ! X =   657.6500,   6083.800,    487.816,    0 !   !END!  GR_M1748
DSC1805 ! X =   657.7000,   6083.800,    489.651,    0 !   !END!  GR_M1749
DSC1806 ! X =   657.7500,   6083.800,    491.461,    0 !   !END!  GR_M1750
DSC1807 ! X =   657.8000,   6083.800,    494.118,    0 !   !END!  GR_M1751
DSC1808 ! X =   657.8500,   6083.800,    498.288,    0 !   !END!  GR_M1752
DSC1809 ! X =   657.9000,   6083.800,    501.394,    0 !   !END!  GR_M1753
DSC1810 ! X =   656.9000,   6083.850,    468.000,    0 !   !END!  GR_M1754
DSC1811 ! X =   656.9500,   6083.850,    468.000,    0 !   !END!  GR_M1755
DSC1812 ! X =   657.0000,   6083.850,    468.000,    0 !   !END!  GR_M1756
DSC1813 ! X =   657.0500,   6083.850,    468.000,    0 !   !END!  GR_M1757
DSC1814 ! X =   657.1000,   6083.850,    468.000,    0 !   !END!  GR_M1758
DSC1815 ! X =   657.1500,   6083.850,    468.000,    0 !   !END!  GR_M1759
DSC1816 ! X =   657.2000,   6083.850,    468.000,    0 !   !END!  GR_M1760
DSC1817 ! X =   657.2500,   6083.850,    468.964,    0 !   !END!  GR_M1761
DSC1818 ! X =   657.3000,   6083.850,    473.410,    0 !   !END!  GR_M1762
DSC1819 ! X =   657.3500,   6083.850,    475.597,    0 !   !END!  GR_M1763
DSC1820 ! X =   657.4000,   6083.850,    477.115,    0 !   !END!  GR_M1764
DSC1821 ! X =   657.4500,   6083.850,    479.043,    0 !   !END!  GR_M1765
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DSC1822 ! X =   657.5000,   6083.850,    481.438,    0 !   !END!  GR_M1766
DSC1823 ! X =   657.5500,   6083.850,    484.101,    0 !   !END!  GR_M1767
DSC1824 ! X =   657.6000,   6083.850,    486.769,    0 !   !END!  GR_M1768
DSC1825 ! X =   657.6500,   6083.850,    489.507,    0 !   !END!  GR_M1769
DSC1826 ! X =   657.7000,   6083.850,    491.083,    0 !   !END!  GR_M1770
DSC1827 ! X =   657.7500,   6083.850,    492.746,    0 !   !END!  GR_M1771
DSC1828 ! X =   657.8000,   6083.850,    495.898,    0 !   !END!  GR_M1772
DSC1829 ! X =   657.8500,   6083.850,    500.070,    0 !   !END!  GR_M1773
DSC1830 ! X =   657.9000,   6083.850,    503.000,    0 !   !END!  GR_M1774
DSC1831 ! X =   656.9000,   6083.900,    468.000,    0 !   !END!  GR_M1775
DSC1832 ! X =   656.9500,   6083.900,    468.000,    0 !   !END!  GR_M1776
DSC1833 ! X =   657.0000,   6083.900,    468.000,    0 !   !END!  GR_M1777
DSC1834 ! X =   657.0500,   6083.900,    468.000,    0 !   !END!  GR_M1778
DSC1835 ! X =   657.1000,   6083.900,    468.000,    0 !   !END!  GR_M1779
DSC1836 ! X =   657.1500,   6083.900,    468.000,    0 !   !END!  GR_M1780
DSC1837 ! X =   657.2000,   6083.900,    469.326,    0 !   !END!  GR_M1781
DSC1838 ! X =   657.2500,   6083.900,    473.416,    0 !   !END!  GR_M1782
DSC1839 ! X =   657.3000,   6083.900,    476.078,    0 !   !END!  GR_M1783
DSC1840 ! X =   657.3500,   6083.900,    478.137,    0 !   !END!  GR_M1784
DSC1841 ! X =   657.4000,   6083.900,    479.403,    0 !   !END!  GR_M1785
DSC1842 ! X =   657.4500,   6083.900,    481.198,    0 !   !END!  GR_M1786
DSC1843 ! X =   657.5000,   6083.900,    483.654,    0 !   !END!  GR_M1787
DSC1844 ! X =   657.5500,   6083.900,    486.045,    0 !   !END!  GR_M1788
DSC1845 ! X =   657.6000,   6083.900,    488.077,    0 !   !END!  GR_M1789
DSC1846 ! X =   657.6500,   6083.900,    490.730,    0 !   !END!  GR_M1790
DSC1847 ! X =   657.7000,   6083.900,    492.454,    0 !   !END!  GR_M1791
DSC1848 ! X =   657.7500,   6083.900,    494.214,    0 !   !END!  GR_M1792
DSC1849 ! X =   657.8000,   6083.900,    497.027,    0 !   !END!  GR_M1793
DSC1850 ! X =   657.8500,   6083.900,    500.762,    0 !   !END!  GR_M1794
DSC1851 ! X =   657.9000,   6083.900,    502.483,    0 !   !END!  GR_M1795
DSC1852 ! X =   656.9000,   6083.950,    468.000,    0 !   !END!  GR_M1796
DSC1853 ! X =   656.9500,   6083.950,    468.000,    0 !   !END!  GR_M1797
DSC1854 ! X =   657.0000,   6083.950,    468.000,    0 !   !END!  GR_M1798
DSC1855 ! X =   657.0500,   6083.950,    468.000,    0 !   !END!  GR_M1799
DSC1856 ! X =   657.1000,   6083.950,    468.000,    0 !   !END!  GR_M1800
DSC1857 ! X =   657.1500,   6083.950,    468.927,    0 !   !END!  GR_M1801
DSC1858 ! X =   657.2000,   6083.950,    472.728,    0 !   !END!  GR_M1802
DSC1859 ! X =   657.2500,   6083.950,    475.701,    0 !   !END!  GR_M1803
DSC1860 ! X =   657.3000,   6083.950,    478.368,    0 !   !END!  GR_M1804
DSC1861 ! X =   657.3500,   6083.950,    480.026,    0 !   !END!  GR_M1805
DSC1862 ! X =   657.4000,   6083.950,    481.688,    0 !   !END!  GR_M1806
DSC1863 ! X =   657.4500,   6083.950,    483.354,    0 !   !END!  GR_M1807
DSC1864 ! X =   657.5000,   6083.950,    485.277,    0 !   !END!  GR_M1808
DSC1865 ! X =   657.5500,   6083.950,    487.576,    0 !   !END!  GR_M1809
DSC1866 ! X =   657.6000,   6083.950,    490.026,    0 !   !END!  GR_M1810
DSC1867 ! X =   657.6500,   6083.950,    491.951,    0 !   !END!  GR_M1811
DSC1868 ! X =   657.7000,   6083.950,    493.666,    0 !   !END!  GR_M1812
DSC1869 ! X =   657.7500,   6083.950,    495.379,    0 !   !END!  GR_M1813
DSC1870 ! X =   657.8000,   6083.950,    497.157,    0 !   !END!  GR_M1814
DSC1871 ! X =   657.8500,   6083.950,    499.923,    0 !   !END!  GR_M1815
DSC1872 ! X =   657.9000,   6083.950,    502.000,    0 !   !END!  GR_M1816
DSC1873 ! X =   656.9000,   6084.000,    468.000,    0 !   !END!  GR_M1817
DSC1874 ! X =   656.9500,   6084.000,    468.000,    0 !   !END!  GR_M1818
DSC1875 ! X =   657.0000,   6084.000,    468.000,    0 !   !END!  GR_M1819
DSC1876 ! X =   657.0500,   6084.000,    468.000,    0 !   !END!  GR_M1820
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DSC1877 ! X =   657.1000,   6084.000,    468.095,    0 !   !END!  GR_M1821
DSC1878 ! X =   657.1500,   6084.000,    472.666,    0 !   !END!  GR_M1822
DSC1879 ! X =   657.2000,   6084.000,    474.883,    0 !   !END!  GR_M1823
DSC1880 ! X =   657.2500,   6084.000,    477.145,    0 !   !END!  GR_M1824
DSC1881 ! X =   657.3000,   6084.000,    479.734,    0 !   !END!  GR_M1825
DSC1882 ! X =   657.3500,   6084.000,    481.883,    0 !   !END!  GR_M1826
DSC1883 ! X =   657.4000,   6084.000,    483.745,    0 !   !END!  GR_M1827
DSC1884 ! X =   657.4500,   6084.000,    485.504,    0 !   !END!  GR_M1828
DSC1885 ! X =   657.5000,   6084.000,    486.924,    0 !   !END!  GR_M1829
DSC1886 ! X =   657.5500,   6084.000,    488.745,    0 !   !END!  GR_M1830
DSC1887 ! X =   657.6000,   6084.000,    490.523,    0 !   !END!  GR_M1831
DSC1888 ! X =   657.6500,   6084.000,    493.000,    0 !   !END!  GR_M1832
DSC1889 ! X =   657.7000,   6084.000,    494.105,    0 !   !END!  GR_M1833
DSC1890 ! X =   657.7500,   6084.000,    496.000,    0 !   !END!  GR_M1834
DSC1891 ! X =   657.8000,   6084.000,    497.983,    0 !   !END!  GR_M1835
DSC1892 ! X =   657.8500,   6084.000,    500.000,    0 !   !END!  GR_M1836
DSC1893 ! X =   657.9000,   6084.000,    501.132,    0 !   !END!  GR_M1837
DSC1894 ! X =   656.9000,   6084.050,    468.000,    0 !   !END!  GR_M1838
DSC1895 ! X =   656.9500,   6084.050,    468.000,    0 !   !END!  GR_M1839
DSC1896 ! X =   657.0000,   6084.050,    468.000,    0 !   !END!  GR_M1840
DSC1897 ! X =   657.0500,   6084.050,    468.887,    0 !   !END!  GR_M1841
DSC1898 ! X =   657.1000,   6084.050,    473.288,    0 !   !END!  GR_M1842
DSC1899 ! X =   657.1500,   6084.050,    474.974,    0 !   !END!  GR_M1843
DSC1900 ! X =   657.2000,   6084.050,    476.613,    0 !   !END!  GR_M1844
DSC1901 ! X =   657.2500,   6084.050,    479.275,    0 !   !END!  GR_M1845
DSC1902 ! X =   657.3000,   6084.050,    481.895,    0 !   !END!  GR_M1846
DSC1903 ! X =   657.3500,   6084.050,    483.640,    0 !   !END!  GR_M1847
DSC1904 ! X =   657.4000,   6084.050,    485.736,    0 !   !END!  GR_M1848
DSC1905 ! X =   657.4500,   6084.050,    486.748,    0 !   !END!  GR_M1849
DSC1906 ! X =   657.5000,   6084.050,    488.000,    0 !   !END!  GR_M1850
DSC1907 ! X =   657.5500,   6084.050,    489.870,    0 !   !END!  GR_M1851
DSC1908 ! X =   657.6000,   6084.050,    491.702,    0 !   !END!  GR_M1852
DSC1909 ! X =   657.6500,   6084.050,    493.208,    0 !   !END!  GR_M1853
DSC1910 ! X =   657.7000,   6084.050,    495.000,    0 !   !END!  GR_M1854
DSC1911 ! X =   657.7500,   6084.050,    496.682,    0 !   !END!  GR_M1855
DSC1912 ! X =   657.8000,   6084.050,    498.000,    0 !   !END!  GR_M1856
DSC1913 ! X =   657.8500,   6084.050,    499.147,    0 !   !END!  GR_M1857
DSC1914 ! X =   657.9000,   6084.050,    500.896,    0 !   !END!  GR_M1858
DSC1915 ! X =   656.9000,   6084.100,    468.000,    0 !   !END!  GR_M1859
DSC1916 ! X =   656.9500,   6084.100,    468.000,    0 !   !END!  GR_M1860
DSC1917 ! X =   657.0000,   6084.100,    469.126,    0 !   !END!  GR_M1861
DSC1918 ! X =   657.0500,   6084.100,    474.334,    0 !   !END!  GR_M1862
DSC1919 ! X =   657.1000,   6084.100,    476.421,    0 !   !END!  GR_M1863
DSC1920 ! X =   657.1500,   6084.100,    477.270,    0 !   !END!  GR_M1864
DSC1921 ! X =   657.2000,   6084.100,    478.761,    0 !   !END!  GR_M1865
DSC1922 ! X =   657.2500,   6084.100,    481.052,    0 !   !END!  GR_M1866
DSC1923 ! X =   657.3000,   6084.100,    483.215,    0 !   !END!  GR_M1867
DSC1924 ! X =   657.3500,   6084.100,    484.997,    0 !   !END!  GR_M1868
DSC1925 ! X =   657.4000,   6084.100,    486.963,    0 !   !END!  GR_M1869
DSC1926 ! X =   657.4500,   6084.100,    488.000,    0 !   !END!  GR_M1870
DSC1927 ! X =   657.5000,   6084.100,    489.096,    0 !   !END!  GR_M1871
DSC1928 ! X =   657.5500,   6084.100,    490.575,    0 !   !END!  GR_M1872
DSC1929 ! X =   657.6000,   6084.100,    492.000,    0 !   !END!  GR_M1873
DSC1930 ! X =   657.6500,   6084.100,    493.342,    0 !   !END!  GR_M1874
DSC1931 ! X =   657.7000,   6084.100,    495.000,    0 !   !END!  GR_M1875
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DSC1932 ! X =   657.7500,   6084.100,    496.000,    0 !   !END!  GR_M1876
DSC1933 ! X =   657.8000,   6084.100,    497.393,    0 !   !END!  GR_M1877
DSC1934 ! X =   657.8500,   6084.100,    498.790,    0 !   !END!  GR_M1878
DSC1935 ! X =   657.9000,   6084.100,    499.867,    0 !   !END!  GR_M1879
DSC1936 ! X =   656.9000,   6084.150,    468.000,    0 !   !END!  GR_M1880
DSC1937 ! X =   656.9500,   6084.150,    468.330,    0 !   !END!  GR_M1881
DSC1938 ! X =   657.0000,   6084.150,    474.115,    0 !   !END!  GR_M1882
DSC1939 ! X =   657.0500,   6084.150,    477.774,    0 !   !END!  GR_M1883
DSC1940 ! X =   657.1000,   6084.150,    480.176,    0 !   !END!  GR_M1884
DSC1941 ! X =   657.1500,   6084.150,    479.809,    0 !   !END!  GR_M1885
DSC1942 ! X =   657.2000,   6084.150,    480.292,    0 !   !END!  GR_M1886
DSC1943 ! X =   657.2500,   6084.150,    482.689,    0 !   !END!  GR_M1887
DSC1944 ! X =   657.3000,   6084.150,    485.061,    0 !   !END!  GR_M1888
DSC1945 ! X =   657.3500,   6084.150,    487.000,    0 !   !END!  GR_M1889
DSC1946 ! X =   657.4000,   6084.150,    488.000,    0 !   !END!  GR_M1890
DSC1947 ! X =   657.4500,   6084.150,    488.986,    0 !   !END!  GR_M1891
DSC1948 ! X =   657.5000,   6084.150,    489.921,    0 !   !END!  GR_M1892
DSC1949 ! X =   657.5500,   6084.150,    491.000,    0 !   !END!  GR_M1893
DSC1950 ! X =   657.6000,   6084.150,    492.000,    0 !   !END!  GR_M1894
DSC1951 ! X =   657.6500,   6084.150,    493.000,    0 !   !END!  GR_M1895
DSC1952 ! X =   657.7000,   6084.150,    494.085,    0 !   !END!  GR_M1896
DSC1953 ! X =   657.7500,   6084.150,    495.455,    0 !   !END!  GR_M1897
DSC1954 ! X =   657.8000,   6084.150,    496.382,    0 !   !END!  GR_M1898
DSC1955 ! X =   657.8500,   6084.150,    497.635,    0 !   !END!  GR_M1899
DSC1956 ! X =   657.9000,   6084.150,    498.712,    0 !   !END!  GR_M1900
DSC1957 ! X =   656.9000,   6084.200,    468.000,    0 !   !END!  GR_M1901
DSC1958 ! X =   656.9500,   6084.200,    473.407,    0 !   !END!  GR_M1902
DSC1959 ! X =   657.0000,   6084.200,    478.629,    0 !   !END!  GR_M1903
DSC1960 ! X =   657.0500,   6084.200,    482.214,    0 !   !END!  GR_M1904
DSC1961 ! X =   657.1000,   6084.200,    483.976,    0 !   !END!  GR_M1905
DSC1962 ! X =   657.1500,   6084.200,    482.479,    0 !   !END!  GR_M1906
DSC1963 ! X =   657.2000,   6084.200,    481.984,    0 !   !END!  GR_M1907
DSC1964 ! X =   657.2500,   6084.200,    484.130,    0 !   !END!  GR_M1908
DSC1965 ! X =   657.3000,   6084.200,    486.155,    0 !   !END!  GR_M1909
DSC1966 ! X =   657.3500,   6084.200,    487.409,    0 !   !END!  GR_M1910
DSC1967 ! X =   657.4500,   6084.200,    489.000,    0 !   !END!  GR_M1911
DSC1968 ! X =   657.5000,   6084.200,    489.971,    0 !   !END!  GR_M1912
DSC1969 ! X =   657.5500,   6084.200,    490.149,    0 !   !END!  GR_M1913
DSC1970 ! X =   657.6000,   6084.200,    491.087,    0 !   !END!  GR_M1914
DSC1971 ! X =   657.6500,   6084.200,    492.107,    0 !   !END!  GR_M1915
DSC1972 ! X =   657.7000,   6084.200,    493.087,    0 !   !END!  GR_M1916
DSC1973 ! X =   657.7500,   6084.200,    494.326,    0 !   !END!  GR_M1917
DSC1974 ! X =   657.8000,   6084.200,    495.328,    0 !   !END!  GR_M1918
DSC1975 ! X =   657.8500,   6084.200,    496.480,    0 !   !END!  GR_M1919
DSC1976 ! X =   657.9000,   6084.200,    497.160,    0 !   !END!  GR_M1920
DSC1977 ! X =   656.9000,   6084.250,    472.857,    0 !   !END!  GR_M1921
DSC1978 ! X =   656.9500,   6084.250,    477.478,    0 !   !END!  GR_M1922
DSC1979 ! X =   657.0000,   6084.250,    482.070,    0 !   !END!  GR_M1923
DSC1980 ! X =   657.0500,   6084.250,    485.872,    0 !   !END!  GR_M1924
DSC1981 ! X =   657.1000,   6084.250,    486.808,    0 !   !END!  GR_M1925
DSC1982 ! X =   657.1500,   6084.250,    485.368,    0 !   !END!  GR_M1926
DSC1983 ! X =   657.2000,   6084.250,    483.692,    0 !   !END!  GR_M1927
DSC1984 ! X =   657.2500,   6084.250,    485.487,    0 !   !END!  GR_M1928
DSC1985 ! X =   657.3000,   6084.250,    487.000,    0 !   !END!  GR_M1929
DSC1986 ! X =   657.3500,   6084.250,    488.000,    0 !   !END!  GR_M1930
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DSC1987 ! X =   657.4000,   6084.250,    489.000,    0 !   !END!  GR_M1931
DSC1988 ! X =   657.4500,   6084.250,    489.000,    0 !   !END!  GR_M1932
DSC1989 ! X =   657.5000,   6084.250,    489.000,    0 !   !END!  GR_M1933
DSC1990 ! X =   657.5500,   6084.250,    489.224,    0 !   !END!  GR_M1934
DSC1991 ! X =   657.6000,   6084.250,    489.946,    0 !   !END!  GR_M1935
DSC1992 ! X =   657.6500,   6084.250,    490.742,    0 !   !END!  GR_M1936
DSC1993 ! X =   657.7000,   6084.250,    492.047,    0 !   !END!  GR_M1937
DSC1994 ! X =   657.7500,   6084.250,    493.037,    0 !   !END!  GR_M1938
DSC1995 ! X =   657.8000,   6084.250,    494.234,    0 !   !END!  GR_M1939
DSC1996 ! X =   657.8500,   6084.250,    495.222,    0 !   !END!  GR_M1940
DSC1997 ! X =   657.9000,   6084.250,    496.402,    0 !   !END!  GR_M1941
DSC1998 ! X =   657.3500,   6084.300,    488.000,    0 !   !END!  GR_M1942
DSC1999 ! X =   657.4000,   6084.300,    488.000,    0 !   !END!  GR_M1943
DSC2000 ! X =   657.4500,   6084.300,    488.000,    0 !   !END!  GR_M1944
DSC2001 ! X =   657.5000,   6084.300,    488.000,    0 !   !END!  GR_M1945
DSC2002 ! X =   657.5500,   6084.300,    488.000,    0 !   !END!  GR_M1946
DSC2003 ! X =   657.6000,   6084.300,    488.100,    0 !   !END!  GR_M1947
DSC2004 ! X =   657.6500,   6084.300,    488.982,    0 !   !END!  GR_M1948
DSC2005 ! X =   657.7000,   6084.300,    490.566,    0 !   !END!  GR_M1949
DSC2006 ! X =   657.7500,   6084.300,    492.007,    0 !   !END!  GR_M1950
DSC2007 ! X =   657.8000,   6084.300,    493.164,    0 !   !END!  GR_M1951
DSC2008 ! X =   657.8500,   6084.300,    494.845,    0 !   !END!  GR_M1952
DSC2009 ! X =   657.9000,   6084.300,    496.000,    0 !   !END!  GR_M1953
DSC2010 ! X =   657.3500,   6084.350,    488.000,    0 !   !END!  GR_M1954
DSC2011 ! X =   657.4000,   6084.350,    488.000,    0 !   !END!  GR_M1955
DSC2012 ! X =   657.4500,   6084.350,    487.410,    0 !   !END!  GR_M1956
DSC2013 ! X =   657.5000,   6084.350,    487.486,    0 !   !END!  GR_M1957
DSC2014 ! X =   657.5500,   6084.350,    487.269,    0 !   !END!  GR_M1958
DSC2015 ! X =   657.6000,   6084.350,    487.000,    0 !   !END!  GR_M1959
DSC2016 ! X =   657.6500,   6084.350,    487.999,    0 !   !END!  GR_M1960
DSC2017 ! X =   657.7000,   6084.350,    489.579,    0 !   !END!  GR_M1961
DSC2018 ! X =   657.7500,   6084.350,    491.000,    0 !   !END!  GR_M1962
DSC2019 ! X =   657.8000,   6084.350,    493.000,    0 !   !END!  GR_M1963
DSC2020 ! X =   657.8500,   6084.350,    494.947,    0 !   !END!  GR_M1964
DSC2021 ! X =   657.9000,   6084.350,    496.619,    0 !   !END!  GR_M1965
DSC2022 ! X =   657.3500,   6084.400,    488.000,    0 !   !END!  GR_M1966
DSC2023 ! X =   657.4000,   6084.400,    488.000,    0 !   !END!  GR_M1967
DSC2024 ! X =   657.4500,   6084.400,    487.000,    0 !   !END!  GR_M1968
DSC2025 ! X =   657.5000,   6084.400,    487.000,    0 !   !END!  GR_M1969
DSC2026 ! X =   657.5500,   6084.400,    486.614,    0 !   !END!  GR_M1970
DSC2027 ! X =   657.6000,   6084.400,    486.683,    0 !   !END!  GR_M1971
DSC2028 ! X =   657.6500,   6084.400,    487.072,    0 !   !END!  GR_M1972
DSC2029 ! X =   657.7000,   6084.400,    488.864,    0 !   !END!  GR_M1973
DSC2030 ! X =   657.7500,   6084.400,    491.000,    0 !   !END!  GR_M1974
DSC2031 ! X =   657.8000,   6084.400,    493.338,    0 !   !END!  GR_M1975
DSC2032 ! X =   657.8500,   6084.400,    495.077,    0 !   !END!  GR_M1976
DSC2033 ! X =   657.9000,   6084.400,    497.000,    0 !   !END!  GR_M1977
DSC2034 ! X =   657.3500,   6084.450,    487.959,    0 !   !END!  GR_M1978
DSC2035 ! X =   657.4000,   6084.450,    487.000,    0 !   !END!  GR_M1979
DSC2036 ! X =   657.4500,   6084.450,    486.723,    0 !   !END!  GR_M1980
DSC2037 ! X =   657.5000,   6084.450,    486.000,    0 !   !END!  GR_M1981
DSC2038 ! X =   657.5500,   6084.450,    486.000,    0 !   !END!  GR_M1982
DSC2039 ! X =   657.6000,   6084.450,    486.000,    0 !   !END!  GR_M1983
DSC2040 ! X =   657.6500,   6084.450,    487.000,    0 !   !END!  GR_M1984
DSC2041 ! X =   657.7000,   6084.450,    488.998,    0 !   !END!  GR_M1985
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DSC2042 ! X =   657.7500,   6084.450,    491.733,    0 !   !END!  GR_M1986
DSC2043 ! X =   657.8000,   6084.450,    494.000,    0 !   !END!  GR_M1987
DSC2044 ! X =   657.8500,   6084.450,    496.000,    0 !   !END!  GR_M1988
DSC2045 ! X =   657.9000,   6084.450,    497.946,    0 !   !END!  GR_M1989
DSC2046 ! X =   657.3500,   6084.500,    487.000,    0 !   !END!  GR_M1990
DSC2047 ! X =   657.4000,   6084.500,    486.260,    0 !   !END!  GR_M1991
DSC2048 ! X =   657.4500,   6084.500,    485.975,    0 !   !END!  GR_M1992
DSC2049 ! X =   657.5000,   6084.500,    486.000,    0 !   !END!  GR_M1993
DSC2050 ! X =   657.5500,   6084.500,    486.000,    0 !   !END!  GR_M1994
DSC2051 ! X =   657.6000,   6084.500,    486.000,    0 !   !END!  GR_M1995
DSC2052 ! X =   657.6500,   6084.500,    487.000,    0 !   !END!  GR_M1996
DSC2053 ! X =   657.7000,   6084.500,    489.128,    0 !   !END!  GR_M1997
DSC2054 ! X =   657.7500,   6084.500,    492.467,    0 !   !END!  GR_M1998
DSC2055 ! X =   657.8000,   6084.500,    494.810,    0 !   !END!  GR_M1999
DSC2056 ! X =   657.8500,   6084.500,    496.638,    0 !   !END!  GR_M2000
DSC2057 ! X =   657.9000,   6084.500,    498.421,    0 !   !END!  GR_M2001
DSC2058 ! X =   657.3500,   6084.550,    486.578,    0 !   !END!  GR_M2002
DSC2059 ! X =   657.4000,   6084.550,    485.764,    0 !   !END!  GR_M2003
DSC2060 ! X =   657.4500,   6084.550,    485.000,    0 !   !END!  GR_M2004
DSC2061 ! X =   657.5000,   6084.550,    485.000,    0 !   !END!  GR_M2005
DSC2062 ! X =   657.5500,   6084.550,    486.000,    0 !   !END!  GR_M2006
DSC2063 ! X =   657.6000,   6084.550,    486.000,    0 !   !END!  GR_M2007
DSC2064 ! X =   657.6500,   6084.550,    487.000,    0 !   !END!  GR_M2008
DSC2065 ! X =   657.7000,   6084.550,    490.090,    0 !   !END!  GR_M2009
DSC2066 ! X =   657.7500,   6084.550,    493.752,    0 !   !END!  GR_M2010
DSC2067 ! X =   657.8000,   6084.550,    496.414,    0 !   !END!  GR_M2011
DSC2068 ! X =   657.8500,   6084.550,    497.789,    0 !   !END!  GR_M2012
DSC2069 ! X =   657.9000,   6084.550,    499.111,    0 !   !END!  GR_M2013
DSC2070 ! X =   657.3500,   6084.600,    485.485,    0 !   !END!  GR_M2014
DSC2071 ! X =   657.4000,   6084.600,    485.000,    0 !   !END!  GR_M2015
DSC2072 ! X =   657.4500,   6084.600,    484.892,    0 !   !END!  GR_M2016
DSC2073 ! X =   657.5000,   6084.600,    485.127,    0 !   !END!  GR_M2017
DSC2074 ! X =   657.5500,   6084.600,    486.000,    0 !   !END!  GR_M2018
DSC2075 ! X =   657.6000,   6084.600,    486.136,    0 !   !END!  GR_M2019
DSC2076 ! X =   657.6500,   6084.600,    487.673,    0 !   !END!  GR_M2020
DSC2077 ! X =   657.7000,   6084.600,    491.379,    0 !   !END!  GR_M2021
DSC2078 ! X =   657.7500,   6084.600,    495.037,    0 !   !END!  GR_M2022
DSC2079 ! X =   657.8000,   6084.600,    497.722,    0 !   !END!  GR_M2023
DSC2080 ! X =   657.8500,   6084.600,    498.904,    0 !   !END!  GR_M2024
DSC2081 ! X =   657.9000,   6084.600,    500.232,    0 !   !END!  GR_M2025
DSC2082 ! X =   657.3500,   6084.650,    484.761,    0 !   !END!  GR_M2026
DSC2083 ! X =   657.4000,   6084.650,    484.000,    0 !   !END!  GR_M2027
DSC2084 ! X =   657.4500,   6084.650,    484.920,    0 !   !END!  GR_M2028
DSC2085 ! X =   657.5000,   6084.650,    486.000,    0 !   !END!  GR_M2029
DSC2086 ! X =   657.5500,   6084.650,    486.368,    0 !   !END!  GR_M2030
DSC2087 ! X =   657.6000,   6084.650,    487.291,    0 !   !END!  GR_M2031
DSC2088 ! X =   657.6500,   6084.650,    488.997,    0 !   !END!  GR_M2032
DSC2089 ! X =   657.7000,   6084.650,    492.664,    0 !   !END!  GR_M2033
DSC2090 ! X =   657.7500,   6084.650,    497.261,    0 !   !END!  GR_M2034
DSC2091 ! X =   657.8000,   6084.650,    499.984,    0 !   !END!  GR_M2035
DSC2092 ! X =   657.8500,   6084.650,    500.912,    0 !   !END!  GR_M2036
DSC2093 ! X =   657.9000,   6084.650,    501.309,    0 !   !END!  GR_M2037
DSC2094 ! X =   657.3500,   6084.700,    484.000,    0 !   !END!  GR_M2038
DSC2095 ! X =   657.4000,   6084.700,    484.000,    0 !   !END!  GR_M2039
DSC2096 ! X =   657.4500,   6084.700,    485.000,    0 !   !END!  GR_M2040
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DSC2097 ! X =   657.5000,   6084.700,    486.422,    0 !   !END!  GR_M2041
DSC2098 ! X =   657.5500,   6084.700,    487.229,    0 !   !END!  GR_M2042
DSC2099 ! X =   657.6000,   6084.700,    488.545,    0 !   !END!  GR_M2043
DSC2100 ! X =   657.6500,   6084.700,    490.948,    0 !   !END!  GR_M2044
DSC2101 ! X =   657.7000,   6084.700,    494.949,    0 !   !END!  GR_M2045
DSC2102 ! X =   657.7500,   6084.700,    498.611,    0 !   !END!  GR_M2046
DSC2103 ! X =   657.8000,   6084.700,    502.274,    0 !   !END!  GR_M2047
DSC2104 ! X =   657.8500,   6084.700,    504.125,    0 !   !END!  GR_M2048
DSC2105 ! X =   657.9000,   6084.700,    504.981,    0 !   !END!  GR_M2049
DSC2106 ! X =   656.8000,   6086.800,    468.134,    0 !   !END!  GR_M2050
DSC2107 ! X =   656.9000,   6086.800,    473.339,    0 !   !END!  GR_M2051
DSC2108 ! X =   657.0000,   6086.800,    473.000,    0 !   !END!  GR_M2052
DSC2109 ! X =   657.1000,   6086.800,    474.680,    0 !   !END!  GR_M2053
DSC2110 ! X =   657.2000,   6086.800,    484.224,    0 !   !END!  GR_M2054
DSC2111 ! X =   657.3000,   6086.800,    495.104,    0 !   !END!  GR_M2055
DSC2112 ! X =   657.4000,   6086.800,    511.194,    0 !   !END!  GR_M2056
DSC2113 ! X =   657.5000,   6086.800,    531.518,    0 !   !END!  GR_M2057
DSC2114 ! X =   657.6000,   6086.800,    549.339,    0 !   !END!  GR_M2058
DSC2115 ! X =   658.8000,   6086.800,    533.945,    0 !   !END!  GR_M2059
DSC2116 ! X =   656.8000,   6086.900,    468.000,    0 !   !END!  GR_M2060
DSC2117 ! X =   656.9000,   6086.900,    470.965,    0 !   !END!  GR_M2061
DSC2118 ! X =   657.0000,   6086.900,    468.000,    0 !   !END!  GR_M2062
DSC2119 ! X =   657.1000,   6086.900,    471.112,    0 !   !END!  GR_M2063
DSC2120 ! X =   657.2000,   6086.900,    481.038,    0 !   !END!  GR_M2064
DSC2121 ! X =   657.3000,   6086.900,    492.034,    0 !   !END!  GR_M2065
DSC2122 ! X =   657.4000,   6086.900,    512.983,    0 !   !END!  GR_M2066
DSC2123 ! X =   657.5000,   6086.900,    534.636,    0 !   !END!  GR_M2067
DSC2124 ! X =   657.6000,   6086.900,    548.696,    0 !   !END!  GR_M2068
DSC2125 ! X =   658.8000,   6086.900,    529.438,    0 !   !END!  GR_M2069
DSC2126 ! X =   656.8000,   6087.000,    468.000,    0 !   !END!  GR_M2070
DSC2127 ! X =   656.9000,   6087.000,    468.000,    0 !   !END!  GR_M2071
DSC2128 ! X =   657.0000,   6087.000,    468.000,    0 !   !END!  GR_M2072
DSC2129 ! X =   657.1000,   6087.000,    469.819,    0 !   !END!  GR_M2073
DSC2130 ! X =   657.2000,   6087.000,    479.595,    0 !   !END!  GR_M2074
DSC2131 ! X =   657.3000,   6087.000,    493.350,    0 !   !END!  GR_M2075
DSC2132 ! X =   657.4000,   6087.000,    516.774,    0 !   !END!  GR_M2076
DSC2133 ! X =   657.5000,   6087.000,    538.458,    0 !   !END!  GR_M2077
DSC2134 ! X =   657.6000,   6087.000,    548.432,    0 !   !END!  GR_M2078
DSC2135 ! X =   657.7000,   6087.000,    560.389,    0 !   !END!  GR_M2079
DSC2136 ! X =   657.8000,   6087.000,    568.000,    0 !   !END!  GR_M2080
DSC2137 ! X =   657.9000,   6087.000,    566.928,    0 !   !END!  GR_M2081
DSC2138 ! X =   658.0000,   6087.000,    559.981,    0 !   !END!  GR_M2082
DSC2139 ! X =   658.1000,   6087.000,    551.963,    0 !   !END!  GR_M2083
DSC2140 ! X =   658.2000,   6087.000,    546.341,    0 !   !END!  GR_M2084
DSC2141 ! X =   658.3000,   6087.000,    546.000,    0 !   !END!  GR_M2085
DSC2142 ! X =   658.4000,   6087.000,    545.617,    0 !   !END!  GR_M2086
DSC2143 ! X =   658.5000,   6087.000,    542.896,    0 !   !END!  GR_M2087
DSC2144 ! X =   658.6000,   6087.000,    540.000,    0 !   !END!  GR_M2088
DSC2145 ! X =   658.7000,   6087.000,    535.084,    0 !   !END!  GR_M2089
DSC2146 ! X =   658.8000,   6087.000,    520.591,    0 !   !END!  GR_M2090
DSC2147 ! X =   656.8000,   6087.100,    468.000,    0 !   !END!  GR_M2091
DSC2148 ! X =   656.9000,   6087.100,    468.000,    0 !   !END!  GR_M2092
DSC2149 ! X =   657.0000,   6087.100,    468.000,    0 !   !END!  GR_M2093
DSC2150 ! X =   657.1000,   6087.100,    470.083,    0 !   !END!  GR_M2094
DSC2151 ! X =   657.2000,   6087.100,    480.123,    0 !   !END!  GR_M2095
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DSC2152 ! X =   657.3000,   6087.100,    498.776,    0 !   !END!  GR_M2096
DSC2153 ! X =   657.4000,   6087.100,    524.734,    0 !   !END!  GR_M2097
DSC2154 ! X =   657.5000,   6087.100,    541.994,    0 !   !END!  GR_M2098
DSC2155 ! X =   657.6000,   6087.100,    550.357,    0 !   !END!  GR_M2099
DSC2156 ! X =   657.7000,   6087.100,    560.235,    0 !   !END!  GR_M2100
DSC2157 ! X =   657.8000,   6087.100,    563.851,    0 !   !END!  GR_M2101
DSC2158 ! X =   657.9000,   6087.100,    557.872,    0 !   !END!  GR_M2102
DSC2159 ! X =   658.0000,   6087.100,    548.062,    0 !   !END!  GR_M2103
DSC2160 ! X =   658.1000,   6087.100,    543.882,    0 !   !END!  GR_M2104
DSC2161 ! X =   658.2000,   6087.100,    543.035,    0 !   !END!  GR_M2105
DSC2162 ! X =   658.3000,   6087.100,    543.184,    0 !   !END!  GR_M2106
DSC2163 ! X =   658.4000,   6087.100,    542.793,    0 !   !END!  GR_M2107
DSC2164 ! X =   658.5000,   6087.100,    540.103,    0 !   !END!  GR_M2108
DSC2165 ! X =   658.6000,   6087.100,    537.274,    0 !   !END!  GR_M2109
DSC2166 ! X =   658.7000,   6087.100,    524.464,    0 !   !END!  GR_M2110
DSC2167 ! X =   658.8000,   6087.100,    501.033,    0 !   !END!  GR_M2111
DSC2168 ! X =   656.8000,   6087.200,    468.000,    0 !   !END!  GR_M2112
DSC2169 ! X =   656.9000,   6087.200,    468.000,    0 !   !END!  GR_M2113
DSC2170 ! X =   657.0000,   6087.200,    468.000,    0 !   !END!  GR_M2114
DSC2171 ! X =   657.1000,   6087.200,    471.342,    0 !   !END!  GR_M2115
DSC2172 ! X =   657.2000,   6087.200,    481.784,    0 !   !END!  GR_M2116
DSC2173 ! X =   657.3000,   6087.200,    505.550,    0 !   !END!  GR_M2117
DSC2174 ! X =   657.4000,   6087.200,    524.964,    0 !   !END!  GR_M2118
DSC2175 ! X =   657.5000,   6087.200,    538.850,    0 !   !END!  GR_M2119
DSC2176 ! X =   657.6000,   6087.200,    551.552,    0 !   !END!  GR_M2120
DSC2177 ! X =   657.7000,   6087.200,    552.710,    0 !   !END!  GR_M2121
DSC2178 ! X =   657.8000,   6087.200,    548.380,    0 !   !END!  GR_M2122
DSC2179 ! X =   657.9000,   6087.200,    544.358,    0 !   !END!  GR_M2123
DSC2180 ! X =   658.0000,   6087.200,    541.043,    0 !   !END!  GR_M2124
DSC2181 ! X =   658.1000,   6087.200,    540.000,    0 !   !END!  GR_M2125
DSC2182 ! X =   658.2000,   6087.200,    540.000,    0 !   !END!  GR_M2126
DSC2183 ! X =   658.3000,   6087.200,    541.000,    0 !   !END!  GR_M2127
DSC2184 ! X =   658.4000,   6087.200,    540.440,    0 !   !END!  GR_M2128
DSC2185 ! X =   658.5000,   6087.200,    534.362,    0 !   !END!  GR_M2129
DSC2186 ! X =   658.6000,   6087.200,    522.074,    0 !   !END!  GR_M2130
DSC2187 ! X =   658.7000,   6087.200,    500.376,    0 !   !END!  GR_M2131
DSC2188 ! X =   658.8000,   6087.200,    479.749,    0 !   !END!  GR_M2132
DSC2189 ! X =   656.8000,   6087.300,    468.000,    0 !   !END!  GR_M2133
DSC2190 ! X =   656.9000,   6087.300,    468.000,    0 !   !END!  GR_M2134
DSC2191 ! X =   657.0000,   6087.300,    468.000,    0 !   !END!  GR_M2135
DSC2192 ! X =   657.1000,   6087.300,    473.858,    0 !   !END!  GR_M2136
DSC2193 ! X =   657.2000,   6087.300,    483.272,    0 !   !END!  GR_M2137
DSC2194 ! X =   658.4000,   6087.300,    535.594,    0 !   !END!  GR_M2138
DSC2195 ! X =   658.5000,   6087.300,    518.226,    0 !   !END!  GR_M2139
DSC2196 ! X =   658.6000,   6087.300,    493.739,    0 !   !END!  GR_M2140
DSC2197 ! X =   658.7000,   6087.300,    480.150,    0 !   !END!  GR_M2141
DSC2198 ! X =   658.8000,   6087.300,    468.894,    0 !   !END!  GR_M2142
DSC2199 ! X =   656.8000,   6087.400,    468.000,    0 !   !END!  GR_M2143
DSC2200 ! X =   656.9000,   6087.400,    468.000,    0 !   !END!  GR_M2144
DSC2201 ! X =   657.0000,   6087.400,    468.000,    0 !   !END!  GR_M2145
DSC2202 ! X =   657.1000,   6087.400,    476.427,    0 !   !END!  GR_M2146
DSC2203 ! X =   657.2000,   6087.400,    485.963,    0 !   !END!  GR_M2147
DSC2204 ! X =   658.4000,   6087.400,    518.744,    0 !   !END!  GR_M2148
DSC2205 ! X =   658.5000,   6087.400,    492.493,    0 !   !END!  GR_M2149
DSC2206 ! X =   658.6000,   6087.400,    476.296,    0 !   !END!  GR_M2150
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DSC2207 ! X =   658.7000,   6087.400,    469.323,    0 !   !END!  GR_M2151
DSC2208 ! X =   658.8000,   6087.400,    468.000,    0 !   !END!  GR_M2152
DSC2209 ! X =   656.8000,   6087.500,    468.000,    0 !   !END!  GR_M2153
DSC2210 ! X =   656.9000,   6087.500,    468.000,    0 !   !END!  GR_M2154
DSC2211 ! X =   657.0000,   6087.500,    469.323,    0 !   !END!  GR_M2155
DSC2212 ! X =   657.1000,   6087.500,    478.002,    0 !   !END!  GR_M2156
DSC2213 ! X =   657.2000,   6087.500,    484.890,    0 !   !END!  GR_M2157
DSC2214 ! X =   658.4000,   6087.500,    498.198,    0 !   !END!  GR_M2158
DSC2215 ! X =   658.5000,   6087.500,    478.056,    0 !   !END!  GR_M2159
DSC2216 ! X =   658.6000,   6087.500,    469.403,    0 !   !END!  GR_M2160
DSC2217 ! X =   658.7000,   6087.500,    468.000,    0 !   !END!  GR_M2161
DSC2218 ! X =   658.8000,   6087.500,    468.000,    0 !   !END!  GR_M2162
DSC2219 ! X =   656.8000,   6087.600,    468.000,    0 !   !END!  GR_M2163
DSC2220 ! X =   656.9000,   6087.600,    468.000,    0 !   !END!  GR_M2164
DSC2221 ! X =   657.0000,   6087.600,    473.242,    0 !   !END!  GR_M2165
DSC2222 ! X =   657.1000,   6087.600,    478.389,    0 !   !END!  GR_M2166
DSC2223 ! X =   657.2000,   6087.600,    482.872,    0 !   !END!  GR_M2167
DSC2224 ! X =   658.4000,   6087.600,    487.317,    0 !   !END!  GR_M2168
DSC2225 ! X =   658.5000,   6087.600,    470.050,    0 !   !END!  GR_M2169
DSC2226 ! X =   658.6000,   6087.600,    468.000,    0 !   !END!  GR_M2170
DSC2227 ! X =   658.7000,   6087.600,    468.000,    0 !   !END!  GR_M2171
DSC2228 ! X =   658.8000,   6087.600,    468.000,    0 !   !END!  GR_M2172
DSC2229 ! X =   656.8000,   6087.700,    468.000,    0 !   !END!  GR_M2173
DSC2230 ! X =   656.9000,   6087.700,    468.000,    0 !   !END!  GR_M2174
DSC2231 ! X =   657.0000,   6087.700,    475.000,    0 !   !END!  GR_M2175
DSC2232 ! X =   657.1000,   6087.700,    478.653,    0 !   !END!  GR_M2176
DSC2233 ! X =   657.2000,   6087.700,    483.131,    0 !   !END!  GR_M2177
DSC2234 ! X =   658.4000,   6087.700,    479.272,    0 !   !END!  GR_M2178
DSC2235 ! X =   658.5000,   6087.700,    469.393,    0 !   !END!  GR_M2179
DSC2236 ! X =   658.6000,   6087.700,    467.787,    0 !   !END!  GR_M2180
DSC2237 ! X =   658.7000,   6087.700,    468.000,    0 !   !END!  GR_M2181
DSC2238 ! X =   658.8000,   6087.700,    468.000,    0 !   !END!  GR_M2182
DSC2239 ! X =   656.8000,   6087.800,    468.000,    0 !   !END!  GR_M2183
DSC2240 ! X =   656.9000,   6087.800,    468.000,    0 !   !END!  GR_M2184
DSC2241 ! X =   657.0000,   6087.800,    475.973,    0 !   !END!  GR_M2185
DSC2242 ! X =   657.1000,   6087.800,    478.983,    0 !   !END!  GR_M2186
DSC2243 ! X =   657.2000,   6087.800,    483.257,    0 !   !END!  GR_M2187
DSC2244 ! X =   658.4000,   6087.800,    471.010,    0 !   !END!  GR_M2188
DSC2245 ! X =   658.5000,   6087.800,    468.000,    0 !   !END!  GR_M2189
DSC2246 ! X =   658.6000,   6087.800,    467.000,    0 !   !END!  GR_M2190
DSC2247 ! X =   658.7000,   6087.800,    468.000,    0 !   !END!  GR_M2191
DSC2248 ! X =   658.8000,   6087.800,    468.000,    0 !   !END!  GR_M2192
DSC2249 ! X =   656.8000,   6087.900,    468.000,    0 !   !END!  GR_M2193
DSC2250 ! X =   656.9000,   6087.900,    470.429,    0 !   !END!  GR_M2194
DSC2251 ! X =   657.0000,   6087.900,    476.698,    0 !   !END!  GR_M2195
DSC2252 ! X =   657.1000,   6087.900,    479.266,    0 !   !END!  GR_M2196
DSC2253 ! X =   657.2000,   6087.900,    483.026,    0 !   !END!  GR_M2197
DSC2254 ! X =   658.4000,   6087.900,    468.000,    0 !   !END!  GR_M2198
DSC2255 ! X =   658.5000,   6087.900,    467.000,    0 !   !END!  GR_M2199
DSC2256 ! X =   658.6000,   6087.900,    467.000,    0 !   !END!  GR_M2200
DSC2257 ! X =   658.7000,   6087.900,    467.000,    0 !   !END!  GR_M2201
DSC2258 ! X =   658.8000,   6087.900,    468.000,    0 !   !END!  GR_M2202
DSC2259 ! X =   656.8000,   6088.000,    468.000,    0 !   !END!  GR_M2203
DSC2260 ! X =   656.9000,   6088.000,    473.345,    0 !   !END!  GR_M2204
DSC2261 ! X =   657.0000,   6088.000,    477.000,    0 !   !END!  GR_M2205
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DSC2262 ! X =   657.1000,   6088.000,    480.000,    0 !   !END!  GR_M2206
DSC2263 ! X =   657.2000,   6088.000,    483.000,    0 !   !END!  GR_M2207
DSC2264 ! X =   658.4000,   6088.000,    467.173,    0 !   !END!  GR_M2208
DSC2265 ! X =   658.5000,   6088.000,    467.000,    0 !   !END!  GR_M2209
DSC2266 ! X =   658.6000,   6088.000,    467.000,    0 !   !END!  GR_M2210
DSC2267 ! X =   658.7000,   6088.000,    467.000,    0 !   !END!  GR_M2211
DSC2268 ! X =   658.8000,   6088.000,    468.000,    0 !   !END!  GR_M2212
DSC2269 ! X =   656.8000,   6088.100,    468.833,    0 !   !END!  GR_M2213
DSC2270 ! X =   656.9000,   6088.100,    475.738,    0 !   !END!  GR_M2214
DSC2271 ! X =   657.0000,   6088.100,    478.000,    0 !   !END!  GR_M2215
DSC2272 ! X =   657.1000,   6088.100,    480.000,    0 !   !END!  GR_M2216
DSC2273 ! X =   657.2000,   6088.100,    482.000,    0 !   !END!  GR_M2217
DSC2274 ! X =   658.4000,   6088.100,    467.000,    0 !   !END!  GR_M2218
DSC2275 ! X =   658.5000,   6088.100,    467.000,    0 !   !END!  GR_M2219
DSC2276 ! X =   658.6000,   6088.100,    467.000,    0 !   !END!  GR_M2220
DSC2277 ! X =   658.7000,   6088.100,    467.000,    0 !   !END!  GR_M2221
DSC2278 ! X =   658.8000,   6088.100,    468.000,    0 !   !END!  GR_M2222
DSC2279 ! X =   656.8000,   6088.200,    473.000,    0 !   !END!  GR_M2223
DSC2280 ! X =   656.9000,   6088.200,    476.000,    0 !   !END!  GR_M2224
DSC2281 ! X =   657.0000,   6088.200,    477.389,    0 !   !END!  GR_M2225
DSC2282 ! X =   657.1000,   6088.200,    479.000,    0 !   !END!  GR_M2226
DSC2283 ! X =   657.2000,   6088.200,    480.114,    0 !   !END!  GR_M2227
DSC2284 ! X =   658.4000,   6088.200,    467.000,    0 !   !END!  GR_M2228
DSC2285 ! X =   658.5000,   6088.200,    466.000,    0 !   !END!  GR_M2229
DSC2286 ! X =   658.6000,   6088.200,    467.000,    0 !   !END!  GR_M2230
DSC2287 ! X =   658.7000,   6088.200,    467.404,    0 !   !END!  GR_M2231
DSC2288 ! X =   658.8000,   6088.200,    468.000,    0 !   !END!  GR_M2232
DSC2289 ! X =   656.8000,   6088.300,    473.957,    0 !   !END!  GR_M2233
DSC2290 ! X =   656.9000,   6088.300,    475.261,    0 !   !END!  GR_M2234
DSC2291 ! X =   657.0000,   6088.300,    476.872,    0 !   !END!  GR_M2235
DSC2292 ! X =   657.1000,   6088.300,    477.000,    0 !   !END!  GR_M2236
DSC2293 ! X =   657.2000,   6088.300,    477.942,    0 !   !END!  GR_M2237
DSC2294 ! X =   658.4000,   6088.300,    467.000,    0 !   !END!  GR_M2238
DSC2295 ! X =   658.5000,   6088.300,    467.000,    0 !   !END!  GR_M2239
DSC2296 ! X =   658.6000,   6088.300,    467.000,    0 !   !END!  GR_M2240
DSC2297 ! X =   658.7000,   6088.300,    468.000,    0 !   !END!  GR_M2241
DSC2298 ! X =   658.8000,   6088.300,    468.000,    0 !   !END!  GR_M2242
DSC2299 ! X =   656.8000,   6088.400,    474.000,    0 !   !END!  GR_M2243
DSC2300 ! X =   656.9000,   6088.400,    475.000,    0 !   !END!  GR_M2244
DSC2301 ! X =   657.0000,   6088.400,    475.190,    0 !   !END!  GR_M2245
DSC2302 ! X =   657.1000,   6088.400,    475.344,    0 !   !END!  GR_M2246
DSC2303 ! X =   657.2000,   6088.400,    475.493,    0 !   !END!  GR_M2247
DSC2304 ! X =   657.3000,   6088.400,    477.290,    0 !   !END!  GR_M2248
DSC2305 ! X =   657.4000,   6088.400,    480.740,    0 !   !END!  GR_M2249
DSC2306 ! X =   657.5000,   6088.400,    483.949,    0 !   !END!  GR_M2250
DSC2307 ! X =   657.6000,   6088.400,    483.205,    0 !   !END!  GR_M2251
DSC2308 ! X =   657.7000,   6088.400,    477.970,    0 !   !END!  GR_M2252
DSC2309 ! X =   657.8000,   6088.400,    470.541,    0 !   !END!  GR_M2253
DSC2310 ! X =   657.9000,   6088.400,    468.554,    0 !   !END!  GR_M2254
DSC2311 ! X =   658.0000,   6088.400,    469.000,    0 !   !END!  GR_M2255
DSC2312 ! X =   658.1000,   6088.400,    468.596,    0 !   !END!  GR_M2256
DSC2313 ! X =   658.2000,   6088.400,    468.000,    0 !   !END!  GR_M2257
DSC2314 ! X =   658.3000,   6088.400,    467.000,    0 !   !END!  GR_M2258
DSC2315 ! X =   658.4000,   6088.400,    467.000,    0 !   !END!  GR_M2259
DSC2316 ! X =   658.5000,   6088.400,    467.000,    0 !   !END!  GR_M2260
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DSC2317 ! X =   658.6000,   6088.400,    467.821,    0 !   !END!  GR_M2261
DSC2318 ! X =   658.7000,   6088.400,    468.000,    0 !   !END!  GR_M2262
DSC2319 ! X =   658.8000,   6088.400,    468.000,    0 !   !END!  GR_M2263
DSC2320 ! X =   656.8000,   6088.500,    474.000,    0 !   !END!  GR_M2264
DSC2321 ! X =   656.9000,   6088.500,    474.000,    0 !   !END!  GR_M2265
DSC2322 ! X =   657.0000,   6088.500,    474.000,    0 !   !END!  GR_M2266
DSC2323 ! X =   657.1000,   6088.500,    473.034,    0 !   !END!  GR_M2267
DSC2324 ! X =   657.2000,   6088.500,    473.000,    0 !   !END!  GR_M2268
DSC2325 ! X =   657.3000,   6088.500,    474.809,    0 !   !END!  GR_M2269
DSC2326 ! X =   657.4000,   6088.500,    479.095,    0 !   !END!  GR_M2270
DSC2327 ! X =   657.5000,   6088.500,    480.638,    0 !   !END!  GR_M2271
DSC2328 ! X =   657.6000,   6088.500,    478.630,    0 !   !END!  GR_M2272
DSC2329 ! X =   657.7000,   6088.500,    472.301,    0 !   !END!  GR_M2273
DSC2330 ! X =   657.8000,   6088.500,    468.083,    0 !   !END!  GR_M2274
DSC2331 ! X =   657.9000,   6088.500,    468.000,    0 !   !END!  GR_M2275
DSC2332 ! X =   658.0000,   6088.500,    468.000,    0 !   !END!  GR_M2276
DSC2333 ! X =   658.1000,   6088.500,    468.000,    0 !   !END!  GR_M2277
DSC2334 ! X =   658.2000,   6088.500,    468.000,    0 !   !END!  GR_M2278
DSC2335 ! X =   658.3000,   6088.500,    468.000,    0 !   !END!  GR_M2279
DSC2336 ! X =   658.4000,   6088.500,    467.994,    0 !   !END!  GR_M2280
DSC2337 ! X =   658.5000,   6088.500,    468.000,    0 !   !END!  GR_M2281
DSC2338 ! X =   658.6000,   6088.500,    468.000,    0 !   !END!  GR_M2282
DSC2339 ! X =   658.7000,   6088.500,    468.000,    0 !   !END!  GR_M2283
DSC2340 ! X =   658.8000,   6088.500,    468.000,    0 !   !END!  GR_M2284
DSC2341 ! X =   656.8000,   6088.600,    473.589,    0 !   !END!  GR_M2285
DSC2342 ! X =   656.9000,   6088.600,    472.421,    0 !   !END!  GR_M2286
DSC2343 ! X =   657.0000,   6088.600,    471.574,    0 !   !END!  GR_M2287
DSC2344 ! X =   657.1000,   6088.600,    470.714,    0 !   !END!  GR_M2288
DSC2345 ! X =   657.2000,   6088.600,    469.938,    0 !   !END!  GR_M2289
DSC2346 ! X =   657.3000,   6088.600,    472.025,    0 !   !END!  GR_M2290
DSC2347 ! X =   657.4000,   6088.600,    477.082,    0 !   !END!  GR_M2291
DSC2348 ! X =   657.5000,   6088.600,    477.370,    0 !   !END!  GR_M2292
DSC2349 ! X =   657.6000,   6088.600,    474.482,    0 !   !END!  GR_M2293
DSC2350 ! X =   657.7000,   6088.600,    470.061,    0 !   !END!  GR_M2294
DSC2351 ! X =   657.8000,   6088.600,    468.000,    0 !   !END!  GR_M2295
DSC2352 ! X =   657.9000,   6088.600,    468.000,    0 !   !END!  GR_M2296
DSC2353 ! X =   658.0000,   6088.600,    468.000,    0 !   !END!  GR_M2297
DSC2354 ! X =   658.1000,   6088.600,    468.000,    0 !   !END!  GR_M2298
DSC2355 ! X =   658.2000,   6088.600,    468.000,    0 !   !END!  GR_M2299
DSC2356 ! X =   658.3000,   6088.600,    468.000,    0 !   !END!  GR_M2300
DSC2357 ! X =   658.4000,   6088.600,    468.000,    0 !   !END!  GR_M2301
DSC2358 ! X =   658.5000,   6088.600,    468.000,    0 !   !END!  GR_M2302
DSC2359 ! X =   658.6000,   6088.600,    469.000,    0 !   !END!  GR_M2303
DSC2360 ! X =   658.7000,   6088.600,    468.890,    0 !   !END!  GR_M2304
DSC2361 ! X =   658.8000,   6088.600,    470.694,    0 !   !END!  GR_M2305
DSC2362 ! X =   656.8000,   6088.700,    471.962,    0 !   !END!  GR_M2306
DSC2363 ! X =   656.9000,   6088.700,    469.076,    0 !   !END!  GR_M2307
DSC2364 ! X =   657.0000,   6088.700,    468.000,    0 !   !END!  GR_M2308
DSC2365 ! X =   657.1000,   6088.700,    468.000,    0 !   !END!  GR_M2309
DSC2366 ! X =   657.2000,   6088.700,    468.000,    0 !   !END!  GR_M2310
DSC2367 ! X =   657.3000,   6088.700,    470.235,    0 !   !END!  GR_M2311
DSC2368 ! X =   657.4000,   6088.700,    475.624,    0 !   !END!  GR_M2312
DSC2369 ! X =   657.5000,   6088.700,    474.802,    0 !   !END!  GR_M2313
DSC2370 ! X =   657.6000,   6088.700,    471.486,    0 !   !END!  GR_M2314
DSC2371 ! X =   657.7000,   6088.700,    468.268,    0 !   !END!  GR_M2315
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DSC2372 ! X =   657.8000,   6088.700,    468.000,    0 !   !END!  GR_M2316
DSC2373 ! X =   657.9000,   6088.700,    468.000,    0 !   !END!  GR_M2317
DSC2374 ! X =   658.0000,   6088.700,    468.000,    0 !   !END!  GR_M2318
DSC2375 ! X =   658.1000,   6088.700,    468.000,    0 !   !END!  GR_M2319
DSC2376 ! X =   658.2000,   6088.700,    468.000,    0 !   !END!  GR_M2320
DSC2377 ! X =   658.3000,   6088.700,    468.000,    0 !   !END!  GR_M2321
DSC2378 ! X =   658.4000,   6088.700,    468.000,    0 !   !END!  GR_M2322
DSC2379 ! X =   658.5000,   6088.700,    469.000,    0 !   !END!  GR_M2323
DSC2380 ! X =   658.6000,   6088.700,    470.000,    0 !   !END!  GR_M2324
DSC2381 ! X =   658.7000,   6088.700,    472.156,    0 !   !END!  GR_M2325
DSC2382 ! X =   658.8000,   6088.700,    474.469,    0 !   !END!  GR_M2326
DSC2383 ! X =   656.8000,   6088.800,    468.000,    0 !   !END!  GR_M2327
DSC2384 ! X =   656.9000,   6088.800,    468.000,    0 !   !END!  GR_M2328
DSC2385 ! X =   657.0000,   6088.800,    468.000,    0 !   !END!  GR_M2329
DSC2386 ! X =   657.1000,   6088.800,    468.000,    0 !   !END!  GR_M2330
DSC2387 ! X =   657.2000,   6088.800,    468.000,    0 !   !END!  GR_M2331
DSC2388 ! X =   657.3000,   6088.800,    468.499,    0 !   !END!  GR_M2332
DSC2389 ! X =   657.4000,   6088.800,    474.549,    0 !   !END!  GR_M2333
DSC2390 ! X =   657.5000,   6088.800,    471.864,    0 !   !END!  GR_M2334
DSC2391 ! X =   657.6000,   6088.800,    468.044,    0 !   !END!  GR_M2335
DSC2392 ! X =   657.7000,   6088.800,    468.000,    0 !   !END!  GR_M2336
DSC2393 ! X =   657.8000,   6088.800,    468.000,    0 !   !END!  GR_M2337
DSC2394 ! X =   657.9000,   6088.800,    468.000,    0 !   !END!  GR_M2338
DSC2395 ! X =   658.0000,   6088.800,    468.000,    0 !   !END!  GR_M2339
DSC2396 ! X =   658.1000,   6088.800,    468.000,    0 !   !END!  GR_M2340
DSC2397 ! X =   658.2000,   6088.800,    468.000,    0 !   !END!  GR_M2341
DSC2398 ! X =   658.3000,   6088.800,    468.000,    0 !   !END!  GR_M2342
DSC2399 ! X =   658.4000,   6088.800,    468.000,    0 !   !END!  GR_M2343
DSC2400 ! X =   658.5000,   6088.800,    469.000,    0 !   !END!  GR_M2344
DSC2401 ! X =   658.6000,   6088.800,    471.473,    0 !   !END!  GR_M2345
DSC2402 ! X =   658.7000,   6088.800,    475.117,    0 !   !END!  GR_M2346
DSC2403 ! X =   658.8000,   6088.800,    479.315,    0 !   !END!  GR_M2347
DSC2404 ! X =   657.2000,   6085.400,    484.107,    0 !   !END!  GR_M2348
DSC2405 ! X =   658.4000,   6085.400,    548.894,    0 !   !END!  GR_M2349
DSC2406 ! X =   658.5000,   6085.400,    550.000,    0 !   !END!  GR_M2350
DSC2407 ! X =   658.6000,   6085.400,    548.126,    0 !   !END!  GR_M2351
DSC2408 ! X =   658.7000,   6085.400,    545.112,    0 !   !END!  GR_M2352
DSC2409 ! X =   658.8000,   6085.400,    538.430,    0 !   !END!  GR_M2353
DSC2410 ! X =   658.9000,   6085.400,    525.520,    0 !   !END!  GR_M2354
DSC2411 ! X =   659.0000,   6085.400,    516.339,    0 !   !END!  GR_M2355
DSC2412 ! X =   659.1000,   6085.400,    512.173,    0 !   !END!  GR_M2356
DSC2413 ! X =   659.2000,   6085.400,    503.546,    0 !   !END!  GR_M2357
DSC2414 ! X =   657.2000,   6085.500,    485.371,    0 !   !END!  GR_M2358
DSC2415 ! X =   658.4000,   6085.500,    547.290,    0 !   !END!  GR_M2359
DSC2416 ! X =   658.5000,   6085.500,    544.886,    0 !   !END!  GR_M2360
DSC2417 ! X =   658.6000,   6085.500,    540.154,    0 !   !END!  GR_M2361
DSC2418 ! X =   658.7000,   6085.500,    535.718,    0 !   !END!  GR_M2362
DSC2419 ! X =   658.8000,   6085.500,    524.503,    0 !   !END!  GR_M2363
DSC2420 ! X =   658.9000,   6085.500,    514.242,    0 !   !END!  GR_M2364
DSC2421 ! X =   659.0000,   6085.500,    503.722,    0 !   !END!  GR_M2365
DSC2422 ! X =   659.1000,   6085.500,    502.916,    0 !   !END!  GR_M2366
DSC2423 ! X =   659.2000,   6085.500,    495.117,    0 !   !END!  GR_M2367
DSC2424 ! X =   657.2000,   6085.600,    484.939,    0 !   !END!  GR_M2368
DSC2425 ! X =   658.4000,   6085.600,    539.606,    0 !   !END!  GR_M2369
DSC2426 ! X =   658.5000,   6085.600,    533.398,    0 !   !END!  GR_M2370
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DSC2427 ! X =   658.6000,   6085.600,    527.528,    0 !   !END!  GR_M2371
DSC2428 ! X =   658.7000,   6085.600,    517.958,    0 !   !END!  GR_M2372
DSC2429 ! X =   658.8000,   6085.600,    506.398,    0 !   !END!  GR_M2373
DSC2430 ! X =   658.9000,   6085.600,    497.493,    0 !   !END!  GR_M2374
DSC2431 ! X =   659.0000,   6085.600,    492.579,    0 !   !END!  GR_M2375
DSC2432 ! X =   659.1000,   6085.600,    491.115,    0 !   !END!  GR_M2376
DSC2433 ! X =   659.2000,   6085.600,    487.000,    0 !   !END!  GR_M2377
DSC2434 ! X =   657.2000,   6085.700,    486.894,    0 !   !END!  GR_M2378
DSC2435 ! X =   658.4000,   6085.700,    528.390,    0 !   !END!  GR_M2379
DSC2436 ! X =   658.5000,   6085.700,    521.373,    0 !   !END!  GR_M2380
DSC2437 ! X =   658.6000,   6085.700,    511.355,    0 !   !END!  GR_M2381
DSC2438 ! X =   658.7000,   6085.700,    502.383,    0 !   !END!  GR_M2382
DSC2439 ! X =   658.8000,   6085.700,    494.032,    0 !   !END!  GR_M2383
DSC2440 ! X =   658.9000,   6085.700,    487.863,    0 !   !END!  GR_M2384
DSC2441 ! X =   659.0000,   6085.700,    487.000,    0 !   !END!  GR_M2385
DSC2442 ! X =   659.1000,   6085.700,    487.000,    0 !   !END!  GR_M2386
DSC2443 ! X =   659.2000,   6085.700,    487.000,    0 !   !END!  GR_M2387
DSC2444 ! X =   657.2000,   6085.800,    488.154,    0 !   !END!  GR_M2388
DSC2445 ! X =   658.4000,   6085.800,    513.286,    0 !   !END!  GR_M2389
DSC2446 ! X =   658.5000,   6085.800,    505.690,    0 !   !END!  GR_M2390
DSC2447 ! X =   658.6000,   6085.800,    498.494,    0 !   !END!  GR_M2391
DSC2448 ! X =   658.7000,   6085.800,    490.837,    0 !   !END!  GR_M2392
DSC2449 ! X =   658.8000,   6085.800,    487.000,    0 !   !END!  GR_M2393
DSC2450 ! X =   658.9000,   6085.800,    487.000,    0 !   !END!  GR_M2394
DSC2451 ! X =   659.0000,   6085.800,    487.000,    0 !   !END!  GR_M2395
DSC2452 ! X =   659.1000,   6085.800,    487.000,    0 !   !END!  GR_M2396
DSC2453 ! X =   659.2000,   6085.800,    487.000,    0 !   !END!  GR_M2397
DSC2454 ! X =   657.2000,   6085.900,    487.418,    0 !   !END!  GR_M2398
DSC2455 ! X =   658.8000,   6085.900,    487.000,    0 !   !END!  GR_M2399
DSC2456 ! X =   658.9000,   6085.900,    487.000,    0 !   !END!  GR_M2400
DSC2457 ! X =   659.0000,   6085.900,    487.000,    0 !   !END!  GR_M2401
DSC2458 ! X =   659.1000,   6085.900,    487.000,    0 !   !END!  GR_M2402
DSC2459 ! X =   659.2000,   6085.900,    487.000,    0 !   !END!  GR_M2403
DSC2460 ! X =   657.2000,   6086.000,    486.600,    0 !   !END!  GR_M2404
DSC2461 ! X =   658.8000,   6086.000,    487.000,    0 !   !END!  GR_M2405
DSC2462 ! X =   658.9000,   6086.000,    487.000,    0 !   !END!  GR_M2406
DSC2463 ! X =   659.0000,   6086.000,    487.000,    0 !   !END!  GR_M2407
DSC2464 ! X =   659.1000,   6086.000,    501.800,    0 !   !END!  GR_M2408
DSC2465 ! X =   659.2000,   6086.000,    507.643,    0 !   !END!  GR_M2409
DSC2466 ! X =   657.2000,   6086.100,    484.577,    0 !   !END!  GR_M2410
DSC2467 ! X =   658.8000,   6086.100,    487.000,    0 !   !END!  GR_M2411
DSC2468 ! X =   658.9000,   6086.100,    487.000,    0 !   !END!  GR_M2412
DSC2469 ! X =   659.0000,   6086.100,    501.216,    0 !   !END!  GR_M2413
DSC2470 ! X =   659.1000,   6086.100,    504.555,    0 !   !END!  GR_M2414
DSC2471 ! X =   659.2000,   6086.100,    517.349,    0 !   !END!  GR_M2415
DSC2472 ! X =   657.2000,   6086.200,    485.142,    0 !   !END!  GR_M2416
DSC2473 ! X =   657.3000,   6086.200,    491.222,    0 !   !END!  GR_M2417
DSC2474 ! X =   657.4000,   6086.200,    499.157,    0 !   !END!  GR_M2418
DSC2475 ! X =   657.5000,   6086.200,    506.877,    0 !   !END!  GR_M2419
DSC2476 ! X =   657.6000,   6086.200,    517.315,    0 !   !END!  GR_M2420
DSC2477 ! X =   658.8000,   6086.200,    489.538,    0 !   !END!  GR_M2421
DSC2478 ! X =   658.9000,   6086.200,    501.107,    0 !   !END!  GR_M2422
DSC2479 ! X =   659.0000,   6086.200,    511.916,    0 !   !END!  GR_M2423
DSC2480 ! X =   659.1000,   6086.200,    518.896,    0 !   !END!  GR_M2424
DSC2481 ! X =   659.2000,   6086.200,    520.738,    0 !   !END!  GR_M2425
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DSC2482 ! X =   657.2000,   6086.300,    486.464,    0 !   !END!  GR_M2426
DSC2483 ! X =   657.3000,   6086.300,    493.934,    0 !   !END!  GR_M2427
DSC2484 ! X =   657.4000,   6086.300,    502.716,    0 !   !END!  GR_M2428
DSC2485 ! X =   657.5000,   6086.300,    512.451,    0 !   !END!  GR_M2429
DSC2486 ! X =   657.6000,   6086.300,    523.926,    0 !   !END!  GR_M2430
DSC2487 ! X =   658.8000,   6086.300,    504.803,    0 !   !END!  GR_M2431
DSC2488 ! X =   658.9000,   6086.300,    516.539,    0 !   !END!  GR_M2432
DSC2489 ! X =   659.0000,   6086.300,    520.338,    0 !   !END!  GR_M2433
DSC2490 ! X =   659.1000,   6086.300,    525.118,    0 !   !END!  GR_M2434
DSC2491 ! X =   659.2000,   6086.300,    522.999,    0 !   !END!  GR_M2435
DSC2492 ! X =   657.2000,   6086.400,    488.728,    0 !   !END!  GR_M2436
DSC2493 ! X =   657.3000,   6086.400,    497.240,    0 !   !END!  GR_M2437
DSC2494 ! X =   657.4000,   6086.400,    507.373,    0 !   !END!  GR_M2438
DSC2495 ! X =   657.5000,   6086.400,    518.026,    0 !   !END!  GR_M2439
DSC2496 ! X =   657.6000,   6086.400,    529.350,    0 !   !END!  GR_M2440
DSC2497 ! X =   658.8000,   6086.400,    517.698,    0 !   !END!  GR_M2441
DSC2498 ! X =   658.9000,   6086.400,    522.472,    0 !   !END!  GR_M2442
DSC2499 ! X =   659.0000,   6086.400,    525.304,    0 !   !END!  GR_M2443
DSC2500 ! X =   659.1000,   6086.400,    529.858,    0 !   !END!  GR_M2444
DSC2501 ! X =   659.2000,   6086.400,    523.714,    0 !   !END!  GR_M2445
DSC2502 ! X =   657.2000,   6086.500,    489.987,    0 !   !END!  GR_M2446
DSC2503 ! X =   657.3000,   6086.500,    499.931,    0 !   !END!  GR_M2447
DSC2504 ! X =   657.4000,   6086.500,    511.210,    0 !   !END!  GR_M2448
DSC2505 ! X =   657.5000,   6086.500,    523.018,    0 !   !END!  GR_M2449
DSC2506 ! X =   657.6000,   6086.500,    534.821,    0 !   !END!  GR_M2450
DSC2507 ! X =   658.8000,   6086.500,    523.837,    0 !   !END!  GR_M2451
DSC2508 ! X =   658.9000,   6086.500,    530.083,    0 !   !END!  GR_M2452
DSC2509 ! X =   659.0000,   6086.500,    530.491,    0 !   !END!  GR_M2453
DSC2510 ! X =   659.1000,   6086.500,    533.127,    0 !   !END!  GR_M2454
DSC2511 ! X =   659.2000,   6086.500,    519.458,    0 !   !END!  GR_M2455
DSC2512 ! X =   657.2000,   6086.600,    491.251,    0 !   !END!  GR_M2456
DSC2513 ! X =   657.3000,   6086.600,    500.518,    0 !   !END!  GR_M2457
DSC2514 ! X =   657.4000,   6086.600,    512.416,    0 !   !END!  GR_M2458
DSC2515 ! X =   657.5000,   6086.600,    526.851,    0 !   !END!  GR_M2459
DSC2516 ! X =   657.6000,   6086.600,    539.494,    0 !   !END!  GR_M2460
DSC2517 ! X =   658.8000,   6086.600,    529.411,    0 !   !END!  GR_M2461
DSC2518 ! X =   658.9000,   6086.600,    534.135,    0 !   !END!  GR_M2462
DSC2519 ! X =   659.0000,   6086.600,    534.027,    0 !   !END!  GR_M2463
DSC2520 ! X =   659.1000,   6086.600,    524.170,    0 !   !END!  GR_M2464
DSC2521 ! X =   659.2000,   6086.600,    506.674,    0 !   !END!  GR_M2465
DSC2522 ! X =   657.2000,   6086.700,    488.266,    0 !   !END!  GR_M2466
DSC2523 ! X =   657.3000,   6086.700,    498.896,    0 !   !END!  GR_M2467
DSC2524 ! X =   657.4000,   6086.700,    511.971,    0 !   !END!  GR_M2468
DSC2525 ! X =   657.5000,   6086.700,    529.640,    0 !   !END!  GR_M2469
DSC2526 ! X =   657.6000,   6086.700,    545.343,    0 !   !END!  GR_M2470
DSC2527 ! X =   658.8000,   6086.700,    533.138,    0 !   !END!  GR_M2471
DSC2528 ! X =   658.9000,   6086.700,    535.219,    0 !   !END!  GR_M2472
DSC2529 ! X =   659.0000,   6086.700,    525.586,    0 !   !END!  GR_M2473
DSC2530 ! X =   659.1000,   6086.700,    506.229,    0 !   !END!  GR_M2474
DSC2531 ! X =   659.2000,   6086.700,    495.214,    0 !   !END!  GR_M2475
DSC2532 ! X =   658.9000,   6086.800,    528.255,    0 !   !END!  GR_M2476
DSC2533 ! X =   659.0000,   6086.800,    504.872,    0 !   !END!  GR_M2477
DSC2534 ! X =   659.1000,   6086.800,    492.800,    0 !   !END!  GR_M2478
DSC2535 ! X =   659.2000,   6086.800,    481.258,    0 !   !END!  GR_M2479
DSC2536 ! X =   658.9000,   6086.900,    514.163,    0 !   !END!  GR_M2480
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DSC2537 ! X =   659.0000,   6086.900,    493.422,    0 !   !END!  GR_M2481
DSC2538 ! X =   659.1000,   6086.900,    478.821,    0 !   !END!  GR_M2482
DSC2539 ! X =   659.2000,   6086.900,    469.562,    0 !   !END!  GR_M2483
DSC2540 ! X =   658.9000,   6087.000,    497.899,    0 !   !END!  GR_M2484
DSC2541 ! X =   659.0000,   6087.000,    481.877,    0 !   !END!  GR_M2485
DSC2542 ! X =   659.1000,   6087.000,    468.427,    0 !   !END!  GR_M2486
DSC2543 ! X =   659.2000,   6087.000,    468.000,    0 !   !END!  GR_M2487
DSC2544 ! X =   658.9000,   6087.100,    480.015,    0 !   !END!  GR_M2488
DSC2545 ! X =   659.0000,   6087.100,    470.067,    0 !   !END!  GR_M2489
DSC2546 ! X =   659.1000,   6087.100,    468.000,    0 !   !END!  GR_M2490
DSC2547 ! X =   659.2000,   6087.100,    468.000,    0 !   !END!  GR_M2491
DSC2548 ! X =   658.9000,   6087.200,    468.790,    0 !   !END!  GR_M2492
DSC2549 ! X =   659.0000,   6087.200,    468.000,    0 !   !END!  GR_M2493
DSC2550 ! X =   659.1000,   6087.200,    468.000,    0 !   !END!  GR_M2494
DSC2551 ! X =   659.2000,   6087.200,    468.000,    0 !   !END!  GR_M2495
DSC2552 ! X =   658.9000,   6087.300,    468.000,    0 !   !END!  GR_M2496
DSC2553 ! X =   659.0000,   6087.300,    468.000,    0 !   !END!  GR_M2497
DSC2554 ! X =   659.1000,   6087.300,    468.000,    0 !   !END!  GR_M2498
DSC2555 ! X =   659.2000,   6087.300,    468.000,    0 !   !END!  GR_M2499
DSC2556 ! X =   658.9000,   6087.400,    468.000,    0 !   !END!  GR_M2500
DSC2557 ! X =   659.0000,   6087.400,    468.000,    0 !   !END!  GR_M2501
DSC2558 ! X =   659.1000,   6087.400,    468.000,    0 !   !END!  GR_M2502
DSC2559 ! X =   659.2000,   6087.400,    468.000,    0 !   !END!  GR_M2503
DSC2560 ! X =   658.0000,   6084.600,    506.349,    0 !   !END!  GR_M2504
DSC2561 ! X =   658.1000,   6084.600,    521.338,    0 !   !END!  GR_M2505
DSC2562 ! X =   658.2000,   6084.600,    532.812,    0 !   !END!  GR_M2506
DSC2563 ! X =   658.3000,   6084.600,    536.220,    0 !   !END!  GR_M2507
DSC2564 ! X =   658.4000,   6084.600,    538.078,    0 !   !END!  GR_M2508
DSC2565 ! X =   658.5000,   6084.600,    543.418,    0 !   !END!  GR_M2509
DSC2566 ! X =   658.6000,   6084.600,    541.739,    0 !   !END!  GR_M2510
DSC2567 ! X =   658.7000,   6084.600,    523.926,    0 !   !END!  GR_M2511
DSC2568 ! X =   658.8000,   6084.600,    510.885,    0 !   !END!  GR_M2512
DSC2569 ! X =   658.0000,   6084.700,    515.614,    0 !   !END!  GR_M2513
DSC2570 ! X =   658.1000,   6084.700,    531.348,    0 !   !END!  GR_M2514
DSC2571 ! X =   658.2000,   6084.700,    535.029,    0 !   !END!  GR_M2515
DSC2572 ! X =   658.3000,   6084.700,    535.614,    0 !   !END!  GR_M2516
DSC2573 ! X =   658.4000,   6084.700,    532.768,    0 !   !END!  GR_M2517
DSC2574 ! X =   658.5000,   6084.700,    536.834,    0 !   !END!  GR_M2518
DSC2575 ! X =   658.6000,   6084.700,    524.431,    0 !   !END!  GR_M2519
DSC2576 ! X =   658.7000,   6084.700,    514.909,    0 !   !END!  GR_M2520
DSC2577 ! X =   658.8000,   6084.700,    503.937,    0 !   !END!  GR_M2521
DSC2578 ! X =   657.4000,   6084.800,    485.029,    0 !   !END!  GR_M2522
DSC2579 ! X =   657.5000,   6084.800,    488.872,    0 !   !END!  GR_M2523
DSC2580 ! X =   657.6000,   6084.800,    491.334,    0 !   !END!  GR_M2524
DSC2581 ! X =   657.7000,   6084.800,    497.882,    0 !   !END!  GR_M2525
DSC2582 ! X =   657.8000,   6084.800,    507.843,    0 !   !END!  GR_M2526
DSC2583 ! X =   657.9000,   6084.800,    516.336,    0 !   !END!  GR_M2527
DSC2584 ! X =   658.0000,   6084.800,    529.086,    0 !   !END!  GR_M2528
DSC2585 ! X =   658.1000,   6084.800,    535.000,    0 !   !END!  GR_M2529
DSC2586 ! X =   658.2000,   6084.800,    534.155,    0 !   !END!  GR_M2530
DSC2587 ! X =   658.3000,   6084.800,    532.538,    0 !   !END!  GR_M2531
DSC2588 ! X =   658.4000,   6084.800,    526.915,    0 !   !END!  GR_M2532
DSC2589 ! X =   658.5000,   6084.800,    525.395,    0 !   !END!  GR_M2533
DSC2590 ! X =   658.6000,   6084.800,    517.386,    0 !   !END!  GR_M2534
DSC2591 ! X =   658.7000,   6084.800,    514.560,    0 !   !END!  GR_M2535
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DSC2592 ! X =   658.8000,   6084.800,    503.923,    0 !   !END!  GR_M2536
DSC2593 ! X =   657.4000,   6084.900,    486.842,    0 !   !END!  GR_M2537
DSC2594 ! X =   657.5000,   6084.900,    491.216,    0 !   !END!  GR_M2538
DSC2595 ! X =   657.6000,   6084.900,    494.721,    0 !   !END!  GR_M2539
DSC2596 ! X =   657.7000,   6084.900,    501.257,    0 !   !END!  GR_M2540
DSC2597 ! X =   657.8000,   6084.900,    513.336,    0 !   !END!  GR_M2541
DSC2598 ! X =   657.9000,   6084.900,    525.475,    0 !   !END!  GR_M2542
DSC2599 ! X =   658.0000,   6084.900,    535.277,    0 !   !END!  GR_M2543
DSC2600 ! X =   658.1000,   6084.900,    532.976,    0 !   !END!  GR_M2544
DSC2601 ! X =   658.2000,   6084.900,    529.758,    0 !   !END!  GR_M2545
DSC2602 ! X =   658.3000,   6084.900,    524.970,    0 !   !END!  GR_M2546
DSC2603 ! X =   658.4000,   6084.900,    524.853,    0 !   !END!  GR_M2547
DSC2604 ! X =   658.5000,   6084.900,    524.098,    0 !   !END!  GR_M2548
DSC2605 ! X =   658.6000,   6084.900,    523.909,    0 !   !END!  GR_M2549
DSC2606 ! X =   658.7000,   6084.900,    530.820,    0 !   !END!  GR_M2550
DSC2607 ! X =   658.8000,   6084.900,    523.480,    0 !   !END!  GR_M2551
DSC2608 ! X =   657.4000,   6085.000,    488.013,    0 !   !END!  GR_M2552
DSC2609 ! X =   657.5000,   6085.000,    494.013,    0 !   !END!  GR_M2553
DSC2610 ! X =   657.6000,   6085.000,    498.342,    0 !   !END!  GR_M2554
DSC2611 ! X =   657.7000,   6085.000,    510.325,    0 !   !END!  GR_M2555
DSC2612 ! X =   657.8000,   6085.000,    524.058,    0 !   !END!  GR_M2556
DSC2613 ! X =   657.9000,   6085.000,    532.312,    0 !   !END!  GR_M2557
DSC2614 ! X =   658.0000,   6085.000,    534.333,    0 !   !END!  GR_M2558
DSC2615 ! X =   658.1000,   6085.000,    530.038,    0 !   !END!  GR_M2559
DSC2616 ! X =   658.2000,   6085.000,    527.848,    0 !   !END!  GR_M2560
DSC2617 ! X =   658.3000,   6085.000,    529.624,    0 !   !END!  GR_M2561
DSC2618 ! X =   658.4000,   6085.000,    533.163,    0 !   !END!  GR_M2562
DSC2619 ! X =   658.5000,   6085.000,    534.263,    0 !   !END!  GR_M2563
DSC2620 ! X =   658.6000,   6085.000,    538.432,    0 !   !END!  GR_M2564
DSC2621 ! X =   658.7000,   6085.000,    535.451,    0 !   !END!  GR_M2565
DSC2622 ! X =   658.8000,   6085.000,    538.005,    0 !   !END!  GR_M2566
DSC2623 ! X =   658.4000,   6085.100,    537.506,    0 !   !END!  GR_M2567
DSC2624 ! X =   658.5000,   6085.100,    540.320,    0 !   !END!  GR_M2568
DSC2625 ! X =   658.6000,   6085.100,    544.166,    0 !   !END!  GR_M2569
DSC2626 ! X =   658.7000,   6085.100,    545.032,    0 !   !END!  GR_M2570
DSC2627 ! X =   658.8000,   6085.100,    549.728,    0 !   !END!  GR_M2571
DSC2628 ! X =   658.4000,   6085.200,    542.075,    0 !   !END!  GR_M2572
DSC2629 ! X =   658.5000,   6085.200,    544.405,    0 !   !END!  GR_M2573
DSC2630 ! X =   658.6000,   6085.200,    548.118,    0 !   !END!  GR_M2574
DSC2631 ! X =   658.7000,   6085.200,    550.235,    0 !   !END!  GR_M2575
DSC2632 ! X =   658.8000,   6085.200,    553.000,    0 !   !END!  GR_M2576
DSC2633 ! X =   658.4000,   6085.300,    546.090,    0 !   !END!  GR_M2577
DSC2634 ! X =   658.5000,   6085.300,    547.941,    0 !   !END!  GR_M2578
DSC2635 ! X =   658.6000,   6085.300,    549.896,    0 !   !END!  GR_M2579
DSC2636 ! X =   658.7000,   6085.300,    550.000,    0 !   !END!  GR_M2580
DSC2637 ! X =   658.8000,   6085.300,    550.056,    0 !   !END!  GR_M2581
DSC2638 ! X =   656.8000,   6085.400,    481.834,    0 !   !END!  GR_M2582
DSC2639 ! X =   656.9000,   6085.400,    479.107,    0 !   !END!  GR_M2583
DSC2640 ! X =   657.0000,   6085.400,    477.000,    0 !   !END!  GR_M2584
DSC2641 ! X =   657.1000,   6085.400,    479.634,    0 !   !END!  GR_M2585
DSC2642 ! X =   656.8000,   6085.500,    479.870,    0 !   !END!  GR_M2586
DSC2643 ! X =   656.9000,   6085.500,    477.000,    0 !   !END!  GR_M2587
DSC2644 ! X =   657.0000,   6085.500,    477.000,    0 !   !END!  GR_M2588
DSC2645 ! X =   657.1000,   6085.500,    480.000,    0 !   !END!  GR_M2589
DSC2646 ! X =   656.8000,   6085.600,    477.560,    0 !   !END!  GR_M2590
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DSC2647 ! X =   656.9000,   6085.600,    475.000,    0 !   !END!  GR_M2591
DSC2648 ! X =   657.0000,   6085.600,    477.000,    0 !   !END!  GR_M2592
DSC2649 ! X =   657.1000,   6085.600,    481.000,    0 !   !END!  GR_M2593
DSC2650 ! X =   656.8000,   6085.700,    475.250,    0 !   !END!  GR_M2594
DSC2651 ! X =   656.9000,   6085.700,    474.000,    0 !   !END!  GR_M2595
DSC2652 ! X =   657.0000,   6085.700,    477.000,    0 !   !END!  GR_M2596
DSC2653 ! X =   657.1000,   6085.700,    481.591,    0 !   !END!  GR_M2597
DSC2654 ! X =   656.8000,   6085.800,    472.939,    0 !   !END!  GR_M2598
DSC2655 ! X =   656.9000,   6085.800,    472.749,    0 !   !END!  GR_M2599
DSC2656 ! X =   657.0000,   6085.800,    477.202,    0 !   !END!  GR_M2600
DSC2657 ! X =   657.1000,   6085.800,    482.415,    0 !   !END!  GR_M2601
DSC2658 ! X =   656.8000,   6085.900,    471.000,    0 !   !END!  GR_M2602
DSC2659 ! X =   656.9000,   6085.900,    473.000,    0 !   !END!  GR_M2603
DSC2660 ! X =   657.0000,   6085.900,    477.429,    0 !   !END!  GR_M2604
DSC2661 ! X =   657.1000,   6085.900,    481.944,    0 !   !END!  GR_M2605
DSC2662 ! X =   656.8000,   6086.000,    471.000,    0 !   !END!  GR_M2606
DSC2663 ! X =   656.9000,   6086.000,    473.116,    0 !   !END!  GR_M2607
DSC2664 ! X =   657.0000,   6086.000,    475.896,    0 !   !END!  GR_M2608
DSC2665 ! X =   657.1000,   6086.000,    480.820,    0 !   !END!  GR_M2609
DSC2666 ! X =   656.8000,   6086.100,    470.000,    0 !   !END!  GR_M2610
DSC2667 ! X =   656.9000,   6086.100,    472.000,    0 !   !END!  GR_M2611
DSC2668 ! X =   657.0000,   6086.100,    473.989,    0 !   !END!  GR_M2612
DSC2669 ! X =   657.1000,   6086.100,    479.215,    0 !   !END!  GR_M2613
DSC2670 ! X =   656.8000,   6086.200,    469.205,    0 !   !END!  GR_M2614
DSC2671 ! X =   656.9000,   6086.200,    470.966,    0 !   !END!  GR_M2615
DSC2672 ! X =   657.0000,   6086.200,    472.001,    0 !   !END!  GR_M2616
DSC2673 ! X =   657.1000,   6086.200,    478.726,    0 !   !END!  GR_M2617
DSC2674 ! X =   656.8000,   6086.300,    469.000,    0 !   !END!  GR_M2618
DSC2675 ! X =   656.9000,   6086.300,    470.000,    0 !   !END!  GR_M2619
DSC2676 ! X =   657.0000,   6086.300,    472.000,    0 !   !END!  GR_M2620
DSC2677 ! X =   657.1000,   6086.300,    477.986,    0 !   !END!  GR_M2621
DSC2678 ! X =   656.8000,   6086.400,    469.000,    0 !   !END!  GR_M2622
DSC2679 ! X =   656.9000,   6086.400,    469.000,    0 !   !END!  GR_M2623
DSC2680 ! X =   657.0000,   6086.400,    470.771,    0 !   !END!  GR_M2624
DSC2681 ! X =   657.1000,   6086.400,    478.499,    0 !   !END!  GR_M2625
DSC2682 ! X =   656.8000,   6086.500,    468.000,    0 !   !END!  GR_M2626
DSC2683 ! X =   656.9000,   6086.500,    468.925,    0 !   !END!  GR_M2627
DSC2684 ! X =   657.0000,   6086.500,    470.030,    0 !   !END!  GR_M2628
DSC2685 ! X =   657.1000,   6086.500,    479.397,    0 !   !END!  GR_M2629
DSC2686 ! X =   656.8000,   6086.600,    468.000,    0 !   !END!  GR_M2630
DSC2687 ! X =   656.9000,   6086.600,    468.000,    0 !   !END!  GR_M2631
DSC2688 ! X =   657.0000,   6086.600,    469.589,    0 !   !END!  GR_M2632
DSC2689 ! X =   657.1000,   6086.600,    480.546,    0 !   !END!  GR_M2633
DSC2690 ! X =   655.8000,   6083.800,    486.531,    0 !   !END!  GR_M2634
DSC2691 ! X =   655.9000,   6083.800,    478.808,    0 !   !END!  GR_M2635
DSC2692 ! X =   656.0000,   6083.800,    469.430,    0 !   !END!  GR_M2636
DSC2693 ! X =   656.1000,   6083.800,    468.000,    0 !   !END!  GR_M2637
DSC2694 ! X =   656.2000,   6083.800,    468.000,    0 !   !END!  GR_M2638
DSC2695 ! X =   656.3000,   6083.800,    468.000,    0 !   !END!  GR_M2639
DSC2696 ! X =   656.4000,   6083.800,    468.000,    0 !   !END!  GR_M2640
DSC2697 ! X =   656.5000,   6083.800,    468.000,    0 !   !END!  GR_M2641
DSC2698 ! X =   656.6000,   6083.800,    468.000,    0 !   !END!  GR_M2642
DSC2699 ! X =   656.7000,   6083.800,    468.000,    0 !   !END!  GR_M2643
DSC2700 ! X =   656.8000,   6083.800,    468.000,    0 !   !END!  GR_M2644
DSC2701 ! X =   655.8000,   6083.900,    479.104,    0 !   !END!  GR_M2645
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DSC2702 ! X =   655.9000,   6083.900,    471.454,    0 !   !END!  GR_M2646
DSC2703 ! X =   656.0000,   6083.900,    468.000,    0 !   !END!  GR_M2647
DSC2704 ! X =   656.1000,   6083.900,    468.000,    0 !   !END!  GR_M2648
DSC2705 ! X =   656.2000,   6083.900,    468.000,    0 !   !END!  GR_M2649
DSC2706 ! X =   656.3000,   6083.900,    468.000,    0 !   !END!  GR_M2650
DSC2707 ! X =   656.4000,   6083.900,    468.000,    0 !   !END!  GR_M2651
DSC2708 ! X =   656.5000,   6083.900,    468.000,    0 !   !END!  GR_M2652
DSC2709 ! X =   656.6000,   6083.900,    468.000,    0 !   !END!  GR_M2653
DSC2710 ! X =   656.7000,   6083.900,    468.000,    0 !   !END!  GR_M2654
DSC2711 ! X =   656.8000,   6083.900,    468.000,    0 !   !END!  GR_M2655
DSC2712 ! X =   655.8000,   6084.000,    472.402,    0 !   !END!  GR_M2656
DSC2713 ! X =   655.9000,   6084.000,    468.000,    0 !   !END!  GR_M2657
DSC2714 ! X =   656.0000,   6084.000,    468.000,    0 !   !END!  GR_M2658
DSC2715 ! X =   656.1000,   6084.000,    468.000,    0 !   !END!  GR_M2659
DSC2716 ! X =   656.2000,   6084.000,    468.000,    0 !   !END!  GR_M2660
DSC2717 ! X =   656.3000,   6084.000,    468.000,    0 !   !END!  GR_M2661
DSC2718 ! X =   656.4000,   6084.000,    468.000,    0 !   !END!  GR_M2662
DSC2719 ! X =   656.5000,   6084.000,    468.000,    0 !   !END!  GR_M2663
DSC2720 ! X =   656.6000,   6084.000,    468.000,    0 !   !END!  GR_M2664
DSC2721 ! X =   656.7000,   6084.000,    468.000,    0 !   !END!  GR_M2665
DSC2722 ! X =   656.8000,   6084.000,    468.000,    0 !   !END!  GR_M2666
DSC2723 ! X =   655.8000,   6084.100,    468.000,    0 !   !END!  GR_M2667
DSC2724 ! X =   655.9000,   6084.100,    468.000,    0 !   !END!  GR_M2668
DSC2725 ! X =   656.0000,   6084.100,    468.000,    0 !   !END!  GR_M2669
DSC2726 ! X =   656.1000,   6084.100,    468.000,    0 !   !END!  GR_M2670
DSC2727 ! X =   656.2000,   6084.100,    468.000,    0 !   !END!  GR_M2671
DSC2728 ! X =   656.3000,   6084.100,    468.000,    0 !   !END!  GR_M2672
DSC2729 ! X =   656.4000,   6084.100,    468.000,    0 !   !END!  GR_M2673
DSC2730 ! X =   656.5000,   6084.100,    468.000,    0 !   !END!  GR_M2674
DSC2731 ! X =   656.6000,   6084.100,    468.000,    0 !   !END!  GR_M2675
DSC2732 ! X =   656.7000,   6084.100,    468.000,    0 !   !END!  GR_M2676
DSC2733 ! X =   656.8000,   6084.100,    468.000,    0 !   !END!  GR_M2677
DSC2734 ! X =   655.8000,   6084.200,    468.000,    0 !   !END!  GR_M2678
DSC2735 ! X =   655.9000,   6084.200,    468.000,    0 !   !END!  GR_M2679
DSC2736 ! X =   656.0000,   6084.200,    468.000,    0 !   !END!  GR_M2680
DSC2737 ! X =   656.1000,   6084.200,    468.000,    0 !   !END!  GR_M2681
DSC2738 ! X =   656.2000,   6084.200,    468.000,    0 !   !END!  GR_M2682
DSC2739 ! X =   656.3000,   6084.200,    468.000,    0 !   !END!  GR_M2683
DSC2740 ! X =   656.4000,   6084.200,    468.000,    0 !   !END!  GR_M2684
DSC2741 ! X =   656.5000,   6084.200,    468.000,    0 !   !END!  GR_M2685
DSC2742 ! X =   656.6000,   6084.200,    468.000,    0 !   !END!  GR_M2686
DSC2743 ! X =   656.7000,   6084.200,    468.000,    0 !   !END!  GR_M2687
DSC2744 ! X =   656.8000,   6084.200,    468.000,    0 !   !END!  GR_M2688
DSC2745 ! X =   655.8000,   6084.300,    468.000,    0 !   !END!  GR_M2689
DSC2746 ! X =   655.9000,   6084.300,    468.000,    0 !   !END!  GR_M2690
DSC2747 ! X =   656.0000,   6084.300,    468.000,    0 !   !END!  GR_M2691
DSC2748 ! X =   656.1000,   6084.300,    468.000,    0 !   !END!  GR_M2692
DSC2749 ! X =   656.2000,   6084.300,    468.000,    0 !   !END!  GR_M2693
DSC2750 ! X =   655.8000,   6084.400,    468.000,    0 !   !END!  GR_M2694
DSC2751 ! X =   655.9000,   6084.400,    468.000,    0 !   !END!  GR_M2695
DSC2752 ! X =   656.0000,   6084.400,    468.000,    0 !   !END!  GR_M2696
DSC2753 ! X =   656.1000,   6084.400,    468.000,    0 !   !END!  GR_M2697
DSC2754 ! X =   656.2000,   6084.400,    468.000,    0 !   !END!  GR_M2698
DSC2755 ! X =   655.8000,   6084.500,    468.000,    0 !   !END!  GR_M2699
DSC2756 ! X =   655.9000,   6084.500,    468.000,    0 !   !END!  GR_M2700
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DSC2757 ! X =   656.0000,   6084.500,    468.000,    0 !   !END!  GR_M2701
DSC2758 ! X =   656.1000,   6084.500,    468.000,    0 !   !END!  GR_M2702
DSC2759 ! X =   656.2000,   6084.500,    468.000,    0 !   !END!  GR_M2703
DSC2760 ! X =   655.8000,   6084.600,    468.000,    0 !   !END!  GR_M2704
DSC2761 ! X =   655.9000,   6084.600,    468.000,    0 !   !END!  GR_M2705
DSC2762 ! X =   656.0000,   6084.600,    468.000,    0 !   !END!  GR_M2706
DSC2763 ! X =   656.1000,   6084.600,    468.000,    0 !   !END!  GR_M2707
DSC2764 ! X =   656.2000,   6084.600,    468.000,    0 !   !END!  GR_M2708
DSC2765 ! X =   655.8000,   6084.700,    468.000,    0 !   !END!  GR_M2709
DSC2766 ! X =   655.9000,   6084.700,    468.000,    0 !   !END!  GR_M2710
DSC2767 ! X =   656.0000,   6084.700,    468.000,    0 !   !END!  GR_M2711
DSC2768 ! X =   656.1000,   6084.700,    468.000,    0 !   !END!  GR_M2712
DSC2769 ! X =   656.2000,   6084.700,    468.000,    0 !   !END!  GR_M2713
DSC2770 ! X =   655.8000,   6084.800,    468.000,    0 !   !END!  GR_M2714
DSC2771 ! X =   655.9000,   6084.800,    468.000,    0 !   !END!  GR_M2715
DSC2772 ! X =   656.0000,   6084.800,    468.000,    0 !   !END!  GR_M2716
DSC2773 ! X =   656.1000,   6084.800,    468.000,    0 !   !END!  GR_M2717
DSC2774 ! X =   656.2000,   6084.800,    468.000,    0 !   !END!  GR_M2718
DSC2775 ! X =   655.8000,   6084.900,    468.000,    0 !   !END!  GR_M2719
DSC2776 ! X =   655.9000,   6084.900,    468.000,    0 !   !END!  GR_M2720
DSC2777 ! X =   656.0000,   6084.900,    468.000,    0 !   !END!  GR_M2721
DSC2778 ! X =   656.1000,   6084.900,    468.000,    0 !   !END!  GR_M2722
DSC2779 ! X =   656.2000,   6084.900,    468.000,    0 !   !END!  GR_M2723
DSC2780 ! X =   655.8000,   6085.000,    468.000,    0 !   !END!  GR_M2724
DSC2781 ! X =   655.9000,   6085.000,    468.000,    0 !   !END!  GR_M2725
DSC2782 ! X =   656.0000,   6085.000,    468.000,    0 !   !END!  GR_M2726
DSC2783 ! X =   656.1000,   6085.000,    468.000,    0 !   !END!  GR_M2727
DSC2784 ! X =   656.2000,   6085.000,    468.437,    0 !   !END!  GR_M2728
DSC2785 ! X =   655.8000,   6085.100,    468.000,    0 !   !END!  GR_M2729
DSC2786 ! X =   655.9000,   6085.100,    468.000,    0 !   !END!  GR_M2730
DSC2787 ! X =   656.0000,   6085.100,    468.000,    0 !   !END!  GR_M2731
DSC2788 ! X =   656.1000,   6085.100,    468.000,    0 !   !END!  GR_M2732
DSC2789 ! X =   656.2000,   6085.100,    471.205,    0 !   !END!  GR_M2733
DSC2790 ! X =   655.8000,   6085.200,    468.000,    0 !   !END!  GR_M2734
DSC2791 ! X =   655.9000,   6085.200,    468.000,    0 !   !END!  GR_M2735
DSC2792 ! X =   656.0000,   6085.200,    468.000,    0 !   !END!  GR_M2736
DSC2793 ! X =   656.1000,   6085.200,    468.000,    0 !   !END!  GR_M2737
DSC2794 ! X =   656.2000,   6085.200,    471.003,    0 !   !END!  GR_M2738
DSC2795 ! X =   655.8000,   6085.300,    468.000,    0 !   !END!  GR_M2739
DSC2796 ! X =   655.9000,   6085.300,    468.000,    0 !   !END!  GR_M2740
DSC2797 ! X =   656.0000,   6085.300,    468.000,    0 !   !END!  GR_M2741
DSC2798 ! X =   656.1000,   6085.300,    469.025,    0 !   !END!  GR_M2742
DSC2799 ! X =   656.2000,   6085.300,    483.400,    0 !   !END!  GR_M2743
DSC2800 ! X =   655.8000,   6085.400,    468.000,    0 !   !END!  GR_M2744
DSC2801 ! X =   655.9000,   6085.400,    468.000,    0 !   !END!  GR_M2745
DSC2802 ! X =   656.0000,   6085.400,    468.009,    0 !   !END!  GR_M2746
DSC2803 ! X =   656.1000,   6085.400,    480.203,    0 !   !END!  GR_M2747
DSC2804 ! X =   656.2000,   6085.400,    490.247,    0 !   !END!  GR_M2748
DSC2805 ! X =   656.3000,   6085.400,    492.923,    0 !   !END!  GR_M2749
DSC2806 ! X =   656.4000,   6085.400,    491.000,    0 !   !END!  GR_M2750
DSC2807 ! X =   656.5000,   6085.400,    489.000,    0 !   !END!  GR_M2751
DSC2808 ! X =   656.6000,   6085.400,    486.970,    0 !   !END!  GR_M2752
DSC2809 ! X =   656.7000,   6085.400,    485.007,    0 !   !END!  GR_M2753
DSC2810 ! X =   655.8000,   6085.500,    468.000,    0 !   !END!  GR_M2754
DSC2811 ! X =   655.9000,   6085.500,    468.000,    0 !   !END!  GR_M2755
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DSC2812 ! X =   656.0000,   6085.500,    476.288,    0 !   !END!  GR_M2756
DSC2813 ! X =   656.1000,   6085.500,    489.159,    0 !   !END!  GR_M2757
DSC2814 ! X =   656.2000,   6085.500,    490.602,    0 !   !END!  GR_M2758
DSC2815 ! X =   656.3000,   6085.500,    492.000,    0 !   !END!  GR_M2759
DSC2816 ! X =   656.4000,   6085.500,    491.000,    0 !   !END!  GR_M2760
DSC2817 ! X =   656.5000,   6085.500,    487.968,    0 !   !END!  GR_M2761
DSC2818 ! X =   656.6000,   6085.500,    484.568,    0 !   !END!  GR_M2762
DSC2819 ! X =   656.7000,   6085.500,    482.011,    0 !   !END!  GR_M2763
DSC2820 ! X =   655.8000,   6085.600,    468.000,    0 !   !END!  GR_M2764
DSC2821 ! X =   655.9000,   6085.600,    476.008,    0 !   !END!  GR_M2765
DSC2822 ! X =   656.0000,   6085.600,    488.189,    0 !   !END!  GR_M2766
DSC2823 ! X =   656.1000,   6085.600,    491.000,    0 !   !END!  GR_M2767
DSC2824 ! X =   656.2000,   6085.600,    490.908,    0 !   !END!  GR_M2768
DSC2825 ! X =   656.3000,   6085.600,    490.806,    0 !   !END!  GR_M2769
DSC2826 ! X =   656.4000,   6085.600,    489.967,    0 !   !END!  GR_M2770
DSC2827 ! X =   656.5000,   6085.600,    487.077,    0 !   !END!  GR_M2771
DSC2828 ! X =   656.6000,   6085.600,    481.488,    0 !   !END!  GR_M2772
DSC2829 ! X =   656.7000,   6085.600,    479.309,    0 !   !END!  GR_M2773
DSC2830 ! X =   655.8000,   6085.700,    470.875,    0 !   !END!  GR_M2774
DSC2831 ! X =   655.9000,   6085.700,    485.509,    0 !   !END!  GR_M2775
DSC2832 ! X =   656.0000,   6085.700,    491.959,    0 !   !END!  GR_M2776
DSC2833 ! X =   656.1000,   6085.700,    491.354,    0 !   !END!  GR_M2777
DSC2834 ! X =   656.2000,   6085.700,    490.000,    0 !   !END!  GR_M2778
DSC2835 ! X =   656.3000,   6085.700,    489.000,    0 !   !END!  GR_M2779
DSC2836 ! X =   656.4000,   6085.700,    487.973,    0 !   !END!  GR_M2780
DSC2837 ! X =   656.5000,   6085.700,    484.243,    0 !   !END!  GR_M2781
DSC2838 ! X =   656.6000,   6085.700,    477.998,    0 !   !END!  GR_M2782
DSC2839 ! X =   656.7000,   6085.700,    476.050,    0 !   !END!  GR_M2783
DSC2840 ! X =   655.8000,   6085.800,    478.067,    0 !   !END!  GR_M2784
DSC2841 ! X =   655.9000,   6085.800,    489.970,    0 !   !END!  GR_M2785
DSC2842 ! X =   656.0000,   6085.800,    492.000,    0 !   !END!  GR_M2786
DSC2843 ! X =   656.1000,   6085.800,    491.000,    0 !   !END!  GR_M2787
DSC2844 ! X =   656.2000,   6085.800,    489.023,    0 !   !END!  GR_M2788
DSC2845 ! X =   656.3000,   6085.800,    487.306,    0 !   !END!  GR_M2789
DSC2846 ! X =   656.4000,   6085.800,    484.339,    0 !   !END!  GR_M2790
DSC2847 ! X =   656.5000,   6085.800,    479.674,    0 !   !END!  GR_M2791
DSC2848 ! X =   656.6000,   6085.800,    474.642,    0 !   !END!  GR_M2792
DSC2849 ! X =   656.7000,   6085.800,    472.790,    0 !   !END!  GR_M2793
DSC2850 ! X =   656.4000,   6083.200,    471.822,    0 !   !END!  GR_M2794
DSC2851 ! X =   656.5000,   6083.200,    468.539,    0 !   !END!  GR_M2795
DSC2852 ! X =   656.6000,   6083.200,    468.000,    0 !   !END!  GR_M2796
DSC2853 ! X =   656.7000,   6083.200,    468.000,    0 !   !END!  GR_M2797
DSC2854 ! X =   656.8000,   6083.200,    468.000,    0 !   !END!  GR_M2798
DSC2855 ! X =   656.9000,   6083.200,    468.000,    0 !   !END!  GR_M2799
DSC2856 ! X =   657.0000,   6083.200,    468.000,    0 !   !END!  GR_M2800
DSC2857 ! X =   657.1000,   6083.200,    468.000,    0 !   !END!  GR_M2801
DSC2858 ! X =   657.2000,   6083.200,    468.000,    0 !   !END!  GR_M2802
DSC2859 ! X =   657.3000,   6083.200,    468.000,    0 !   !END!  GR_M2803
DSC2860 ! X =   657.4000,   6083.200,    468.000,    0 !   !END!  GR_M2804
DSC2861 ! X =   657.5000,   6083.200,    468.000,    0 !   !END!  GR_M2805
DSC2862 ! X =   657.6000,   6083.200,    468.000,    0 !   !END!  GR_M2806
DSC2863 ! X =   657.7000,   6083.200,    468.000,    0 !   !END!  GR_M2807
DSC2864 ! X =   657.8000,   6083.200,    468.000,    0 !   !END!  GR_M2808
DSC2865 ! X =   657.9000,   6083.200,    470.689,    0 !   !END!  GR_M2809
DSC2866 ! X =   658.0000,   6083.200,    476.331,    0 !   !END!  GR_M2810
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DSC2867 ! X =   658.1000,   6083.200,    482.651,    0 !   !END!  GR_M2811
DSC2868 ! X =   658.2000,   6083.200,    490.963,    0 !   !END!  GR_M2812
DSC2869 ! X =   658.3000,   6083.200,    495.488,    0 !   !END!  GR_M2813
DSC2870 ! X =   658.4000,   6083.200,    496.206,    0 !   !END!  GR_M2814
DSC2871 ! X =   656.4000,   6083.300,    469.000,    0 !   !END!  GR_M2815
DSC2872 ! X =   656.5000,   6083.300,    468.000,    0 !   !END!  GR_M2816
DSC2873 ! X =   656.6000,   6083.300,    468.000,    0 !   !END!  GR_M2817
DSC2874 ! X =   656.7000,   6083.300,    468.000,    0 !   !END!  GR_M2818
DSC2875 ! X =   656.8000,   6083.300,    468.000,    0 !   !END!  GR_M2819
DSC2876 ! X =   656.9000,   6083.300,    468.000,    0 !   !END!  GR_M2820
DSC2877 ! X =   657.0000,   6083.300,    468.000,    0 !   !END!  GR_M2821
DSC2878 ! X =   657.1000,   6083.300,    468.000,    0 !   !END!  GR_M2822
DSC2879 ! X =   657.2000,   6083.300,    468.000,    0 !   !END!  GR_M2823
DSC2880 ! X =   657.3000,   6083.300,    468.000,    0 !   !END!  GR_M2824
DSC2881 ! X =   657.4000,   6083.300,    468.000,    0 !   !END!  GR_M2825
DSC2882 ! X =   657.5000,   6083.300,    468.000,    0 !   !END!  GR_M2826
DSC2883 ! X =   657.6000,   6083.300,    468.000,    0 !   !END!  GR_M2827
DSC2884 ! X =   657.7000,   6083.300,    468.000,    0 !   !END!  GR_M2828
DSC2885 ! X =   657.8000,   6083.300,    471.493,    0 !   !END!  GR_M2829
DSC2886 ! X =   657.9000,   6083.300,    476.586,    0 !   !END!  GR_M2830
DSC2887 ! X =   658.0000,   6083.300,    480.701,    0 !   !END!  GR_M2831
DSC2888 ! X =   658.1000,   6083.300,    487.536,    0 !   !END!  GR_M2832
DSC2889 ! X =   658.2000,   6083.300,    496.546,    0 !   !END!  GR_M2833
DSC2890 ! X =   658.3000,   6083.300,    502.040,    0 !   !END!  GR_M2834
DSC2891 ! X =   658.4000,   6083.300,    501.190,    0 !   !END!  GR_M2835
DSC2892 ! X =   656.4000,   6083.400,    468.000,    0 !   !END!  GR_M2836
DSC2893 ! X =   656.5000,   6083.400,    468.000,    0 !   !END!  GR_M2837
DSC2894 ! X =   656.6000,   6083.400,    468.000,    0 !   !END!  GR_M2838
DSC2895 ! X =   656.7000,   6083.400,    468.000,    0 !   !END!  GR_M2839
DSC2896 ! X =   656.8000,   6083.400,    468.000,    0 !   !END!  GR_M2840
DSC2897 ! X =   656.9000,   6083.400,    468.000,    0 !   !END!  GR_M2841
DSC2898 ! X =   657.0000,   6083.400,    468.000,    0 !   !END!  GR_M2842
DSC2899 ! X =   657.1000,   6083.400,    468.000,    0 !   !END!  GR_M2843
DSC2900 ! X =   657.2000,   6083.400,    468.000,    0 !   !END!  GR_M2844
DSC2901 ! X =   657.3000,   6083.400,    468.000,    0 !   !END!  GR_M2845
DSC2902 ! X =   657.4000,   6083.400,    468.000,    0 !   !END!  GR_M2846
DSC2903 ! X =   657.5000,   6083.400,    468.000,    0 !   !END!  GR_M2847
DSC2904 ! X =   657.6000,   6083.400,    468.000,    0 !   !END!  GR_M2848
DSC2905 ! X =   657.7000,   6083.400,    469.674,    0 !   !END!  GR_M2849
DSC2906 ! X =   657.8000,   6083.400,    476.830,    0 !   !END!  GR_M2850
DSC2907 ! X =   657.9000,   6083.400,    480.975,    0 !   !END!  GR_M2851
DSC2908 ! X =   658.0000,   6083.400,    484.816,    0 !   !END!  GR_M2852
DSC2909 ! X =   658.1000,   6083.400,    496.458,    0 !   !END!  GR_M2853
DSC2910 ! X =   658.2000,   6083.400,    501.809,    0 !   !END!  GR_M2854
DSC2911 ! X =   658.3000,   6083.400,    504.331,    0 !   !END!  GR_M2855
DSC2912 ! X =   658.4000,   6083.400,    503.648,    0 !   !END!  GR_M2856
DSC2913 ! X =   656.4000,   6083.500,    468.000,    0 !   !END!  GR_M2857
DSC2914 ! X =   656.5000,   6083.500,    468.000,    0 !   !END!  GR_M2858
DSC2915 ! X =   656.6000,   6083.500,    468.000,    0 !   !END!  GR_M2859
DSC2916 ! X =   656.7000,   6083.500,    468.000,    0 !   !END!  GR_M2860
DSC2917 ! X =   656.8000,   6083.500,    468.000,    0 !   !END!  GR_M2861
DSC2918 ! X =   656.9000,   6083.500,    468.000,    0 !   !END!  GR_M2862
DSC2919 ! X =   657.0000,   6083.500,    468.000,    0 !   !END!  GR_M2863
DSC2920 ! X =   657.1000,   6083.500,    468.000,    0 !   !END!  GR_M2864
DSC2921 ! X =   657.2000,   6083.500,    468.000,    0 !   !END!  GR_M2865
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DSC2922 ! X =   657.3000,   6083.500,    468.000,    0 !   !END!  GR_M2866
DSC2923 ! X =   657.4000,   6083.500,    468.000,    0 !   !END!  GR_M2867
DSC2924 ! X =   657.5000,   6083.500,    468.000,    0 !   !END!  GR_M2868
DSC2925 ! X =   657.6000,   6083.500,    469.520,    0 !   !END!  GR_M2869
DSC2926 ! X =   657.7000,   6083.500,    477.085,    0 !   !END!  GR_M2870
DSC2927 ! X =   657.8000,   6083.500,    480.429,    0 !   !END!  GR_M2871
DSC2928 ! X =   657.9000,   6083.500,    485.275,    0 !   !END!  GR_M2872
DSC2929 ! X =   658.0000,   6083.500,    492.099,    0 !   !END!  GR_M2873
DSC2930 ! X =   658.1000,   6083.500,    503.973,    0 !   !END!  GR_M2874
DSC2931 ! X =   658.2000,   6083.500,    504.717,    0 !   !END!  GR_M2875
DSC2932 ! X =   658.3000,   6083.500,    505.670,    0 !   !END!  GR_M2876
DSC2933 ! X =   658.4000,   6083.500,    505.517,    0 !   !END!  GR_M2877
DSC2934 ! X =   656.4000,   6083.600,    468.000,    0 !   !END!  GR_M2878
DSC2935 ! X =   656.5000,   6083.600,    468.000,    0 !   !END!  GR_M2879
DSC2936 ! X =   656.6000,   6083.600,    468.000,    0 !   !END!  GR_M2880
DSC2937 ! X =   656.7000,   6083.600,    468.000,    0 !   !END!  GR_M2881
DSC2938 ! X =   656.8000,   6083.600,    468.000,    0 !   !END!  GR_M2882
DSC2939 ! X =   656.9000,   6083.600,    468.000,    0 !   !END!  GR_M2883
DSC2940 ! X =   657.0000,   6083.600,    468.000,    0 !   !END!  GR_M2884
DSC2941 ! X =   657.1000,   6083.600,    468.000,    0 !   !END!  GR_M2885
DSC2942 ! X =   657.2000,   6083.600,    468.000,    0 !   !END!  GR_M2886
DSC2943 ! X =   657.3000,   6083.600,    468.000,    0 !   !END!  GR_M2887
DSC2944 ! X =   657.4000,   6083.600,    468.000,    0 !   !END!  GR_M2888
DSC2945 ! X =   657.5000,   6083.600,    468.468,    0 !   !END!  GR_M2889
DSC2946 ! X =   657.6000,   6083.600,    475.376,    0 !   !END!  GR_M2890
DSC2947 ! X =   657.7000,   6083.600,    481.654,    0 !   !END!  GR_M2891
DSC2948 ! X =   657.8000,   6083.600,    485.739,    0 !   !END!  GR_M2892
DSC2949 ! X =   657.9000,   6083.600,    490.003,    0 !   !END!  GR_M2893
DSC2950 ! X =   658.0000,   6083.600,    497.729,    0 !   !END!  GR_M2894
DSC2951 ! X =   658.1000,   6083.600,    503.187,    0 !   !END!  GR_M2895
DSC2952 ! X =   658.2000,   6083.600,    506.000,    0 !   !END!  GR_M2896
DSC2953 ! X =   658.3000,   6083.600,    507.000,    0 !   !END!  GR_M2897
DSC2954 ! X =   658.4000,   6083.600,    507.000,    0 !   !END!  GR_M2898
DSC2955 ! X =   656.4000,   6083.700,    468.000,    0 !   !END!  GR_M2899
DSC2956 ! X =   656.5000,   6083.700,    468.000,    0 !   !END!  GR_M2900
DSC2957 ! X =   656.6000,   6083.700,    468.000,    0 !   !END!  GR_M2901
DSC2958 ! X =   656.7000,   6083.700,    468.000,    0 !   !END!  GR_M2902
DSC2959 ! X =   656.8000,   6083.700,    468.000,    0 !   !END!  GR_M2903
DSC2960 ! X =   658.0000,   6083.700,    501.860,    0 !   !END!  GR_M2904
DSC2961 ! X =   658.1000,   6083.700,    505.000,    0 !   !END!  GR_M2905
DSC2962 ! X =   658.2000,   6083.700,    507.000,    0 !   !END!  GR_M2906
DSC2963 ! X =   658.3000,   6083.700,    508.291,    0 !   !END!  GR_M2907
DSC2964 ! X =   658.4000,   6083.700,    508.091,    0 !   !END!  GR_M2908
DSC2965 ! X =   658.0000,   6083.800,    504.000,    0 !   !END!  GR_M2909
DSC2966 ! X =   658.1000,   6083.800,    506.000,    0 !   !END!  GR_M2910
DSC2967 ! X =   658.2000,   6083.800,    507.658,    0 !   !END!  GR_M2911
DSC2968 ! X =   658.3000,   6083.800,    509.654,    0 !   !END!  GR_M2912
DSC2969 ! X =   658.4000,   6083.800,    509.666,    0 !   !END!  GR_M2913
DSC2970 ! X =   658.0000,   6083.900,    504.000,    0 !   !END!  GR_M2914
DSC2971 ! X =   658.1000,   6083.900,    505.000,    0 !   !END!  GR_M2915
DSC2972 ! X =   658.2000,   6083.900,    506.866,    0 !   !END!  GR_M2916
DSC2973 ! X =   658.3000,   6083.900,    510.000,    0 !   !END!  GR_M2917
DSC2974 ! X =   658.4000,   6083.900,    511.000,    0 !   !END!  GR_M2918
DSC2975 ! X =   658.0000,   6084.000,    503.000,    0 !   !END!  GR_M2919
DSC2976 ! X =   658.1000,   6084.000,    503.000,    0 !   !END!  GR_M2920
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DSC2977 ! X =   658.2000,   6084.000,    504.814,    0 !   !END!  GR_M2921
DSC2978 ! X =   658.3000,   6084.000,    510.659,    0 !   !END!  GR_M2922
DSC2979 ! X =   658.4000,   6084.000,    513.000,    0 !   !END!  GR_M2923
DSC2980 ! X =   658.0000,   6084.100,    501.000,    0 !   !END!  GR_M2924
DSC2981 ! X =   658.1000,   6084.100,    501.166,    0 !   !END!  GR_M2925
DSC2982 ! X =   658.2000,   6084.100,    503.450,    0 !   !END!  GR_M2926
DSC2983 ! X =   658.3000,   6084.100,    510.923,    0 !   !END!  GR_M2927
DSC2984 ! X =   658.4000,   6084.100,    515.000,    0 !   !END!  GR_M2928
DSC2985 ! X =   658.0000,   6084.200,    499.000,    0 !   !END!  GR_M2929
DSC2986 ! X =   658.1000,   6084.200,    503.034,    0 !   !END!  GR_M2930
DSC2987 ! X =   658.2000,   6084.200,    506.701,    0 !   !END!  GR_M2931
DSC2988 ! X =   658.3000,   6084.200,    512.026,    0 !   !END!  GR_M2932
DSC2989 ! X =   658.4000,   6084.200,    518.346,    0 !   !END!  GR_M2933
DSC2990 ! X =   658.0000,   6084.300,    499.615,    0 !   !END!  GR_M2934
DSC2991 ! X =   658.1000,   6084.300,    503.499,    0 !   !END!  GR_M2935
DSC2992 ! X =   658.2000,   6084.300,    510.275,    0 !   !END!  GR_M2936
DSC2993 ! X =   658.3000,   6084.300,    515.600,    0 !   !END!  GR_M2937
DSC2994 ! X =   658.4000,   6084.300,    530.835,    0 !   !END!  GR_M2938
DSC2995 ! X =   658.0000,   6084.400,    501.264,    0 !   !END!  GR_M2939
DSC2996 ! X =   658.1000,   6084.400,    506.525,    0 !   !END!  GR_M2940
DSC2997 ! X =   658.2000,   6084.400,    514.144,    0 !   !END!  GR_M2941
DSC2998 ! X =   658.3000,   6084.400,    523.794,    0 !   !END!  GR_M2942
DSC2999 ! X =   658.4000,   6084.400,    536.494,    0 !   !END!  GR_M2943
DSC3000 ! X =   658.0000,   6084.500,    503.554,    0 !   !END!  GR_M2944
DSC3001 ! X =   658.1000,   6084.500,    513.101,    0 !   !END!  GR_M2945
DSC3002 ! X =   658.2000,   6084.500,    521.256,    0 !   !END!  GR_M2946
DSC3003 ! X =   658.3000,   6084.500,    534.744,    0 !   !END!  GR_M2947
DSC3004 ! X =   658.4000,   6084.500,    539.790,    0 !   !END!  GR_M2948
DSC3005 ! X =   659.4000,   6085.800,    506.410,    0 !   !END!  GR_M2949
DSC3006 ! X =   659.6000,   6085.800,    519.000,    0 !   !END!  GR_M2950
DSC3007 ! X =   659.8000,   6085.800,    522.000,    0 !   !END!  GR_M2951
DSC3008 ! X =   655.8000,   6086.000,    488.178,    0 !   !END!  GR_M2952
DSC3009 ! X =   656.0000,   6086.000,    489.166,    0 !   !END!  GR_M2953
DSC3010 ! X =   656.2000,   6086.000,    486.041,    0 !   !END!  GR_M2954
DSC3011 ! X =   656.4000,   6086.000,    477.758,    0 !   !END!  GR_M2955
DSC3012 ! X =   656.6000,   6086.000,    471.000,    0 !   !END!  GR_M2956
DSC3013 ! X =   659.4000,   6086.000,    522.000,    0 !   !END!  GR_M2957
DSC3014 ! X =   659.6000,   6086.000,    520.000,    0 !   !END!  GR_M2958
DSC3015 ! X =   659.8000,   6086.000,    498.350,    0 !   !END!  GR_M2959
DSC3016 ! X =   655.8000,   6086.200,    488.590,    0 !   !END!  GR_M2960
DSC3017 ! X =   656.0000,   6086.200,    486.000,    0 !   !END!  GR_M2961
DSC3018 ! X =   656.2000,   6086.200,    480.460,    0 !   !END!  GR_M2962
DSC3019 ! X =   656.4000,   6086.200,    472.661,    0 !   !END!  GR_M2963
DSC3020 ! X =   656.6000,   6086.200,    469.000,    0 !   !END!  GR_M2964
DSC3021 ! X =   659.4000,   6086.200,    522.000,    0 !   !END!  GR_M2965
DSC3022 ! X =   659.6000,   6086.200,    508.442,    0 !   !END!  GR_M2966
DSC3023 ! X =   659.8000,   6086.200,    474.901,    0 !   !END!  GR_M2967
DSC3024 ! X =   655.8000,   6086.400,    487.000,    0 !   !END!  GR_M2968
DSC3025 ! X =   656.0000,   6086.400,    483.000,    0 !   !END!  GR_M2969
DSC3026 ! X =   656.2000,   6086.400,    476.010,    0 !   !END!  GR_M2970
DSC3027 ! X =   656.4000,   6086.400,    470.000,    0 !   !END!  GR_M2971
DSC3028 ! X =   656.6000,   6086.400,    468.000,    0 !   !END!  GR_M2972
DSC3029 ! X =   659.4000,   6086.400,    495.634,    0 !   !END!  GR_M2973
DSC3030 ! X =   659.6000,   6086.400,    471.469,    0 !   !END!  GR_M2974
DSC3031 ! X =   659.8000,   6086.400,    468.000,    0 !   !END!  GR_M2975
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DSC3032 ! X =   655.8000,   6086.600,    485.000,    0 !   !END!  GR_M2976
DSC3033 ! X =   656.0000,   6086.600,    480.626,    0 !   !END!  GR_M2977
DSC3034 ! X =   656.2000,   6086.600,    473.538,    0 !   !END!  GR_M2978
DSC3035 ! X =   656.4000,   6086.600,    469.000,    0 !   !END!  GR_M2979
DSC3036 ! X =   656.6000,   6086.600,    468.000,    0 !   !END!  GR_M2980
DSC3037 ! X =   659.4000,   6086.600,    473.363,    0 !   !END!  GR_M2981
DSC3038 ! X =   659.6000,   6086.600,    468.000,    0 !   !END!  GR_M2982
DSC3039 ! X =   659.8000,   6086.600,    468.000,    0 !   !END!  GR_M2983
DSC3040 ! X =   655.8000,   6086.800,    482.319,    0 !   !END!  GR_M2984
DSC3041 ! X =   656.0000,   6086.800,    477.626,    0 !   !END!  GR_M2985
DSC3042 ! X =   656.2000,   6086.800,    473.943,    0 !   !END!  GR_M2986
DSC3043 ! X =   656.4000,   6086.800,    468.000,    0 !   !END!  GR_M2987
DSC3044 ! X =   656.6000,   6086.800,    468.000,    0 !   !END!  GR_M2988
DSC3045 ! X =   659.4000,   6086.800,    468.000,    0 !   !END!  GR_M2989
DSC3046 ! X =   659.6000,   6086.800,    468.000,    0 !   !END!  GR_M2990
DSC3047 ! X =   659.8000,   6086.800,    468.000,    0 !   !END!  GR_M2991
DSC3048 ! X =   655.8000,   6087.000,    479.296,    0 !   !END!  GR_M2992
DSC3049 ! X =   656.0000,   6087.000,    475.453,    0 !   !END!  GR_M2993
DSC3050 ! X =   656.2000,   6087.000,    468.000,    0 !   !END!  GR_M2994
DSC3051 ! X =   656.4000,   6087.000,    468.000,    0 !   !END!  GR_M2995
DSC3052 ! X =   656.6000,   6087.000,    468.000,    0 !   !END!  GR_M2996
DSC3053 ! X =   659.4000,   6087.000,    468.000,    0 !   !END!  GR_M2997
DSC3054 ! X =   659.6000,   6087.000,    468.000,    0 !   !END!  GR_M2998
DSC3055 ! X =   659.8000,   6087.000,    468.000,    0 !   !END!  GR_M2999
DSC3056 ! X =   655.8000,   6087.200,    476.000,    0 !   !END!  GR_M3000
DSC3057 ! X =   656.0000,   6087.200,    469.741,    0 !   !END!  GR_M3001
DSC3058 ! X =   656.2000,   6087.200,    468.000,    0 !   !END!  GR_M3002
DSC3059 ! X =   656.4000,   6087.200,    468.000,    0 !   !END!  GR_M3003
DSC3060 ! X =   656.6000,   6087.200,    468.000,    0 !   !END!  GR_M3004
DSC3061 ! X =   659.4000,   6087.200,    468.000,    0 !   !END!  GR_M3005
DSC3062 ! X =   659.6000,   6087.200,    468.000,    0 !   !END!  GR_M3006
DSC3063 ! X =   659.8000,   6087.200,    468.000,    0 !   !END!  GR_M3007
DSC3064 ! X =   655.8000,   6087.400,    470.970,    0 !   !END!  GR_M3008
DSC3065 ! X =   656.0000,   6087.400,    468.000,    0 !   !END!  GR_M3009
DSC3066 ! X =   656.2000,   6087.400,    468.000,    0 !   !END!  GR_M3010
DSC3067 ! X =   656.4000,   6087.400,    468.000,    0 !   !END!  GR_M3011
DSC3068 ! X =   656.6000,   6087.400,    468.000,    0 !   !END!  GR_M3012
DSC3069 ! X =   659.4000,   6087.400,    468.000,    0 !   !END!  GR_M3013
DSC3070 ! X =   659.6000,   6087.400,    468.000,    0 !   !END!  GR_M3014
DSC3071 ! X =   659.8000,   6087.400,    468.000,    0 !   !END!  GR_M3015
DSC3072 ! X =   655.8000,   6087.600,    468.000,    0 !   !END!  GR_M3016
DSC3073 ! X =   656.0000,   6087.600,    468.000,    0 !   !END!  GR_M3017
DSC3074 ! X =   656.2000,   6087.600,    468.000,    0 !   !END!  GR_M3018
DSC3075 ! X =   656.4000,   6087.600,    468.000,    0 !   !END!  GR_M3019
DSC3076 ! X =   656.6000,   6087.600,    468.000,    0 !   !END!  GR_M3020
DSC3077 ! X =   659.0000,   6087.600,    468.000,    0 !   !END!  GR_M3021
DSC3078 ! X =   659.2000,   6087.600,    468.000,    0 !   !END!  GR_M3022
DSC3079 ! X =   659.4000,   6087.600,    468.000,    0 !   !END!  GR_M3023
DSC3080 ! X =   659.6000,   6087.600,    468.000,    0 !   !END!  GR_M3024
DSC3081 ! X =   659.8000,   6087.600,    472.329,    0 !   !END!  GR_M3025
DSC3082 ! X =   655.8000,   6087.800,    468.000,    0 !   !END!  GR_M3026
DSC3083 ! X =   656.0000,   6087.800,    468.000,    0 !   !END!  GR_M3027
DSC3084 ! X =   656.2000,   6087.800,    468.000,    0 !   !END!  GR_M3028
DSC3085 ! X =   656.4000,   6087.800,    468.000,    0 !   !END!  GR_M3029
DSC3086 ! X =   656.6000,   6087.800,    468.000,    0 !   !END!  GR_M3030
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DSC3087 ! X =   659.0000,   6087.800,    468.000,    0 !   !END!  GR_M3031
DSC3088 ! X =   659.2000,   6087.800,    468.000,    0 !   !END!  GR_M3032
DSC3089 ! X =   659.4000,   6087.800,    468.000,    0 !   !END!  GR_M3033
DSC3090 ! X =   659.6000,   6087.800,    468.000,    0 !   !END!  GR_M3034
DSC3091 ! X =   659.8000,   6087.800,    469.310,    0 !   !END!  GR_M3035
DSC3092 ! X =   655.8000,   6088.000,    468.000,    0 !   !END!  GR_M3036
DSC3093 ! X =   656.0000,   6088.000,    468.000,    0 !   !END!  GR_M3037
DSC3094 ! X =   656.2000,   6088.000,    468.000,    0 !   !END!  GR_M3038
DSC3095 ! X =   656.4000,   6088.000,    468.000,    0 !   !END!  GR_M3039
DSC3096 ! X =   656.6000,   6088.000,    468.000,    0 !   !END!  GR_M3040
DSC3097 ! X =   659.0000,   6088.000,    468.000,    0 !   !END!  GR_M3041
DSC3098 ! X =   659.2000,   6088.000,    468.000,    0 !   !END!  GR_M3042
DSC3099 ! X =   659.4000,   6088.000,    468.000,    0 !   !END!  GR_M3043
DSC3100 ! X =   659.6000,   6088.000,    468.000,    0 !   !END!  GR_M3044
DSC3101 ! X =   659.8000,   6088.000,    468.000,    0 !   !END!  GR_M3045
DSC3102 ! X =   655.8000,   6088.200,    468.000,    0 !   !END!  GR_M3046
DSC3103 ! X =   656.0000,   6088.200,    468.000,    0 !   !END!  GR_M3047
DSC3104 ! X =   656.2000,   6088.200,    468.000,    0 !   !END!  GR_M3048
DSC3105 ! X =   656.4000,   6088.200,    468.000,    0 !   !END!  GR_M3049
DSC3106 ! X =   656.6000,   6088.200,    468.000,    0 !   !END!  GR_M3050
DSC3107 ! X =   659.0000,   6088.200,    468.000,    0 !   !END!  GR_M3051
DSC3108 ! X =   659.2000,   6088.200,    468.000,    0 !   !END!  GR_M3052
DSC3109 ! X =   659.4000,   6088.200,    469.016,    0 !   !END!  GR_M3053
DSC3110 ! X =   659.6000,   6088.200,    469.000,    0 !   !END!  GR_M3054
DSC3111 ! X =   659.8000,   6088.200,    468.000,    0 !   !END!  GR_M3055
DSC3112 ! X =   655.8000,   6088.400,    468.000,    0 !   !END!  GR_M3056
DSC3113 ! X =   656.0000,   6088.400,    468.000,    0 !   !END!  GR_M3057
DSC3114 ! X =   656.2000,   6088.400,    468.000,    0 !   !END!  GR_M3058
DSC3115 ! X =   656.4000,   6088.400,    468.000,    0 !   !END!  GR_M3059
DSC3116 ! X =   656.6000,   6088.400,    470.457,    0 !   !END!  GR_M3060
DSC3117 ! X =   659.0000,   6088.400,    468.000,    0 !   !END!  GR_M3061
DSC3118 ! X =   659.2000,   6088.400,    469.464,    0 !   !END!  GR_M3062
DSC3119 ! X =   659.4000,   6088.400,    471.485,    0 !   !END!  GR_M3063
DSC3120 ! X =   659.6000,   6088.400,    478.017,    0 !   !END!  GR_M3064
DSC3121 ! X =   659.8000,   6088.400,    484.924,    0 !   !END!  GR_M3065
DSC3122 ! X =   655.8000,   6088.600,    468.000,    0 !   !END!  GR_M3066
DSC3123 ! X =   656.0000,   6088.600,    468.000,    0 !   !END!  GR_M3067
DSC3124 ! X =   656.2000,   6088.600,    468.000,    0 !   !END!  GR_M3068
DSC3125 ! X =   656.4000,   6088.600,    468.212,    0 !   !END!  GR_M3069
DSC3126 ! X =   656.6000,   6088.600,    475.000,    0 !   !END!  GR_M3070
DSC3127 ! X =   659.0000,   6088.600,    477.784,    0 !   !END!  GR_M3071
DSC3128 ! X =   659.2000,   6088.600,    491.085,    0 !   !END!  GR_M3072
DSC3129 ! X =   659.4000,   6088.600,    498.847,    0 !   !END!  GR_M3073
DSC3130 ! X =   659.6000,   6088.600,    505.352,    0 !   !END!  GR_M3074
DSC3131 ! X =   659.8000,   6088.600,    507.653,    0 !   !END!  GR_M3075
DSC3132 ! X =   655.8000,   6088.800,    468.000,    0 !   !END!  GR_M3076
DSC3133 ! X =   656.0000,   6088.800,    468.000,    0 !   !END!  GR_M3077
DSC3134 ! X =   656.2000,   6088.800,    468.000,    0 !   !END!  GR_M3078
DSC3135 ! X =   656.4000,   6088.800,    472.152,    0 !   !END!  GR_M3079
DSC3136 ! X =   656.6000,   6088.800,    474.000,    0 !   !END!  GR_M3080
DSC3137 ! X =   659.0000,   6088.800,    491.710,    0 !   !END!  GR_M3081
DSC3138 ! X =   659.2000,   6088.800,    499.172,    0 !   !END!  GR_M3082
DSC3139 ! X =   659.4000,   6088.800,    520.213,    0 !   !END!  GR_M3083
DSC3140 ! X =   659.6000,   6088.800,    544.388,    0 !   !END!  GR_M3084
DSC3141 ! X =   659.8000,   6088.800,    542.920,    0 !   !END!  GR_M3085
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DSC3142 ! X =   655.8000,   6089.000,    468.000,    0 !   !END!  GR_M3086
DSC3143 ! X =   656.0000,   6089.000,    468.000,    0 !   !END!  GR_M3087
DSC3144 ! X =   656.2000,   6089.000,    468.000,    0 !   !END!  GR_M3088
DSC3145 ! X =   656.4000,   6089.000,    468.000,    0 !   !END!  GR_M3089
DSC3146 ! X =   656.6000,   6089.000,    468.000,    0 !   !END!  GR_M3090
DSC3147 ! X =   656.8000,   6089.000,    468.000,    0 !   !END!  GR_M3091
DSC3148 ! X =   657.0000,   6089.000,    468.000,    0 !   !END!  GR_M3092
DSC3149 ! X =   657.2000,   6089.000,    468.000,    0 !   !END!  GR_M3093
DSC3150 ! X =   657.4000,   6089.000,    468.464,    0 !   !END!  GR_M3094
DSC3151 ! X =   657.6000,   6089.000,    468.000,    0 !   !END!  GR_M3095
DSC3152 ! X =   657.8000,   6089.000,    468.000,    0 !   !END!  GR_M3096
DSC3153 ! X =   658.0000,   6089.000,    468.000,    0 !   !END!  GR_M3097
DSC3154 ! X =   658.2000,   6089.000,    468.000,    0 !   !END!  GR_M3098
DSC3155 ! X =   658.4000,   6089.000,    468.000,    0 !   !END!  GR_M3099
DSC3156 ! X =   658.6000,   6089.000,    473.463,    0 !   !END!  GR_M3100
DSC3157 ! X =   658.8000,   6089.000,    487.197,    0 !   !END!  GR_M3101
DSC3158 ! X =   659.0000,   6089.000,    503.856,    0 !   !END!  GR_M3102
DSC3159 ! X =   659.2000,   6089.000,    521.832,    0 !   !END!  GR_M3103
DSC3160 ! X =   659.4000,   6089.000,    541.170,    0 !   !END!  GR_M3104
DSC3161 ! X =   659.6000,   6089.000,    561.829,    0 !   !END!  GR_M3105
DSC3162 ! X =   659.8000,   6089.000,    556.346,    0 !   !END!  GR_M3106
DSC3163 ! X =   655.8000,   6089.200,    468.000,    0 !   !END!  GR_M3107
DSC3164 ! X =   656.0000,   6089.200,    468.000,    0 !   !END!  GR_M3108
DSC3165 ! X =   656.2000,   6089.200,    468.000,    0 !   !END!  GR_M3109
DSC3166 ! X =   656.4000,   6089.200,    468.000,    0 !   !END!  GR_M3110
DSC3167 ! X =   656.6000,   6089.200,    468.000,    0 !   !END!  GR_M3111
DSC3168 ! X =   656.8000,   6089.200,    468.000,    0 !   !END!  GR_M3112
DSC3169 ! X =   657.0000,   6089.200,    468.000,    0 !   !END!  GR_M3113
DSC3170 ! X =   657.2000,   6089.200,    468.000,    0 !   !END!  GR_M3114
DSC3171 ! X =   657.4000,   6089.200,    468.000,    0 !   !END!  GR_M3115
DSC3172 ! X =   657.6000,   6089.200,    468.000,    0 !   !END!  GR_M3116
DSC3173 ! X =   657.8000,   6089.200,    468.000,    0 !   !END!  GR_M3117
DSC3174 ! X =   658.0000,   6089.200,    468.000,    0 !   !END!  GR_M3118
DSC3175 ! X =   658.2000,   6089.200,    468.000,    0 !   !END!  GR_M3119
DSC3176 ! X =   658.4000,   6089.200,    468.000,    0 !   !END!  GR_M3120
DSC3177 ! X =   658.6000,   6089.200,    474.827,    0 !   !END!  GR_M3121
DSC3178 ! X =   658.8000,   6089.200,    490.905,    0 !   !END!  GR_M3122
DSC3179 ! X =   659.0000,   6089.200,    505.755,    0 !   !END!  GR_M3123
DSC3180 ! X =   659.2000,   6089.200,    530.402,    0 !   !END!  GR_M3124
DSC3181 ! X =   659.4000,   6089.200,    553.011,    0 !   !END!  GR_M3125
DSC3182 ! X =   659.6000,   6089.200,    565.809,    0 !   !END!  GR_M3126
DSC3183 ! X =   659.8000,   6089.200,    540.090,    0 !   !END!  GR_M3127
DSC3184 ! X =   655.8000,   6089.400,    468.000,    0 !   !END!  GR_M3128
DSC3185 ! X =   656.0000,   6089.400,    468.000,    0 !   !END!  GR_M3129
DSC3186 ! X =   656.2000,   6089.400,    468.109,    0 !   !END!  GR_M3130
DSC3187 ! X =   656.4000,   6089.400,    468.222,    0 !   !END!  GR_M3131
DSC3188 ! X =   656.6000,   6089.400,    468.000,    0 !   !END!  GR_M3132
DSC3189 ! X =   656.8000,   6089.400,    468.000,    0 !   !END!  GR_M3133
DSC3190 ! X =   657.0000,   6089.400,    468.000,    0 !   !END!  GR_M3134
DSC3191 ! X =   657.2000,   6089.400,    468.000,    0 !   !END!  GR_M3135
DSC3192 ! X =   657.4000,   6089.400,    468.000,    0 !   !END!  GR_M3136
DSC3193 ! X =   657.6000,   6089.400,    468.000,    0 !   !END!  GR_M3137
DSC3194 ! X =   657.8000,   6089.400,    468.000,    0 !   !END!  GR_M3138
DSC3195 ! X =   658.0000,   6089.400,    468.000,    0 !   !END!  GR_M3139
DSC3196 ! X =   658.2000,   6089.400,    468.000,    0 !   !END!  GR_M3140
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DSC3197 ! X =   658.4000,   6089.400,    468.000,    0 !   !END!  GR_M3141
DSC3198 ! X =   658.6000,   6089.400,    471.355,    0 !   !END!  GR_M3142
DSC3199 ! X =   658.8000,   6089.400,    489.322,    0 !   !END!  GR_M3143
DSC3200 ! X =   659.0000,   6089.400,    505.288,    0 !   !END!  GR_M3144
DSC3201 ! X =   659.2000,   6089.400,    536.651,    0 !   !END!  GR_M3145
DSC3202 ! X =   659.4000,   6089.400,    553.523,    0 !   !END!  GR_M3146
DSC3203 ! X =   659.6000,   6089.400,    534.013,    0 !   !END!  GR_M3147
DSC3204 ! X =   659.8000,   6089.400,    516.778,    0 !   !END!  GR_M3148
DSC3205 ! X =   655.8000,   6089.600,    468.000,    0 !   !END!  GR_M3149
DSC3206 ! X =   656.0000,   6089.600,    468.000,    0 !   !END!  GR_M3150
DSC3207 ! X =   656.2000,   6089.600,    469.000,    0 !   !END!  GR_M3151
DSC3208 ! X =   656.4000,   6089.600,    469.000,    0 !   !END!  GR_M3152
DSC3209 ! X =   656.6000,   6089.600,    468.000,    0 !   !END!  GR_M3153
DSC3210 ! X =   656.8000,   6089.600,    468.000,    0 !   !END!  GR_M3154
DSC3211 ! X =   657.0000,   6089.600,    468.000,    0 !   !END!  GR_M3155
DSC3212 ! X =   657.2000,   6089.600,    468.000,    0 !   !END!  GR_M3156
DSC3213 ! X =   657.4000,   6089.600,    468.000,    0 !   !END!  GR_M3157
DSC3214 ! X =   657.6000,   6089.600,    468.000,    0 !   !END!  GR_M3158
DSC3215 ! X =   657.8000,   6089.600,    468.000,    0 !   !END!  GR_M3159
DSC3216 ! X =   658.0000,   6089.600,    468.000,    0 !   !END!  GR_M3160
DSC3217 ! X =   658.2000,   6089.600,    468.000,    0 !   !END!  GR_M3161
DSC3218 ! X =   658.4000,   6089.600,    468.000,    0 !   !END!  GR_M3162
DSC3219 ! X =   658.6000,   6089.600,    470.883,    0 !   !END!  GR_M3163
DSC3220 ! X =   658.8000,   6089.600,    490.520,    0 !   !END!  GR_M3164
DSC3221 ! X =   659.0000,   6089.600,    508.213,    0 !   !END!  GR_M3165
DSC3222 ! X =   659.2000,   6089.600,    537.424,    0 !   !END!  GR_M3166
DSC3223 ! X =   659.4000,   6089.600,    530.635,    0 !   !END!  GR_M3167
DSC3224 ! X =   659.6000,   6089.600,    515.440,    0 !   !END!  GR_M3168
DSC3225 ! X =   659.8000,   6089.600,    493.628,    0 !   !END!  GR_M3169
DSC3226 ! X =   655.8000,   6089.800,    468.000,    0 !   !END!  GR_M3170
DSC3227 ! X =   656.0000,   6089.800,    468.000,    0 !   !END!  GR_M3171
DSC3228 ! X =   656.2000,   6089.800,    468.000,    0 !   !END!  GR_M3172
DSC3229 ! X =   656.4000,   6089.800,    468.000,    0 !   !END!  GR_M3173
DSC3230 ! X =   656.6000,   6089.800,    469.000,    0 !   !END!  GR_M3174
DSC3231 ! X =   656.8000,   6089.800,    468.000,    0 !   !END!  GR_M3175
DSC3232 ! X =   657.0000,   6089.800,    468.000,    0 !   !END!  GR_M3176
DSC3233 ! X =   657.2000,   6089.800,    468.000,    0 !   !END!  GR_M3177
DSC3234 ! X =   657.4000,   6089.800,    468.000,    0 !   !END!  GR_M3178
DSC3235 ! X =   657.6000,   6089.800,    468.000,    0 !   !END!  GR_M3179
DSC3236 ! X =   657.8000,   6089.800,    468.000,    0 !   !END!  GR_M3180
DSC3237 ! X =   658.0000,   6089.800,    468.000,    0 !   !END!  GR_M3181
DSC3238 ! X =   658.2000,   6089.800,    468.000,    0 !   !END!  GR_M3182
DSC3239 ! X =   658.4000,   6089.800,    468.000,    0 !   !END!  GR_M3183
DSC3240 ! X =   658.6000,   6089.800,    476.549,    0 !   !END!  GR_M3184
DSC3241 ! X =   658.8000,   6089.800,    495.018,    0 !   !END!  GR_M3185
DSC3242 ! X =   659.0000,   6089.800,    512.349,    0 !   !END!  GR_M3186
DSC3243 ! X =   659.2000,   6089.800,    516.148,    0 !   !END!  GR_M3187
DSC3244 ! X =   659.4000,   6089.800,    507.733,    0 !   !END!  GR_M3188
DSC3245 ! X =   659.6000,   6089.800,    494.335,    0 !   !END!  GR_M3189
DSC3246 ! X =   659.8000,   6089.800,    469.122,    0 !   !END!  GR_M3190
DSC3247 ! X =   658.6000,   6084.400,    546.134,    0 !   !END!  GR_M3191
DSC3248 ! X =   658.8000,   6084.400,    525.837,    0 !   !END!  GR_M3192
DSC3249 ! X =   659.0000,   6084.400,    485.354,    0 !   !END!  GR_M3193
DSC3250 ! X =   659.2000,   6084.400,    482.258,    0 !   !END!  GR_M3194
DSC3251 ! X =   659.4000,   6084.400,    493.338,    0 !   !END!  GR_M3195
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DSC3252 ! X =   659.6000,   6084.400,    482.056,    0 !   !END!  GR_M3196
DSC3253 ! X =   659.8000,   6084.400,    487.301,    0 !   !END!  GR_M3197
DSC3254 ! X =   660.0000,   6084.400,    504.832,    0 !   !END!  GR_M3198
DSC3255 ! X =   660.2000,   6084.400,    487.593,    0 !   !END!  GR_M3199
DSC3256 ! X =   659.0000,   6084.600,    497.573,    0 !   !END!  GR_M3200
DSC3257 ! X =   659.2000,   6084.600,    514.073,    0 !   !END!  GR_M3201
DSC3258 ! X =   659.4000,   6084.600,    517.013,    0 !   !END!  GR_M3202
DSC3259 ! X =   659.6000,   6084.600,    493.693,    0 !   !END!  GR_M3203
DSC3260 ! X =   659.8000,   6084.600,    502.938,    0 !   !END!  GR_M3204
DSC3261 ! X =   660.0000,   6084.600,    493.938,    0 !   !END!  GR_M3205
DSC3262 ! X =   660.2000,   6084.600,    484.171,    0 !   !END!  GR_M3206
DSC3263 ! X =   659.0000,   6084.800,    515.048,    0 !   !END!  GR_M3207
DSC3264 ! X =   659.2000,   6084.800,    533.620,    0 !   !END!  GR_M3208
DSC3265 ! X =   659.4000,   6084.800,    507.042,    0 !   !END!  GR_M3209
DSC3266 ! X =   659.6000,   6084.800,    501.286,    0 !   !END!  GR_M3210
DSC3267 ! X =   659.8000,   6084.800,    503.691,    0 !   !END!  GR_M3211
DSC3268 ! X =   660.0000,   6084.800,    487.099,    0 !   !END!  GR_M3212
DSC3269 ! X =   660.2000,   6084.800,    494.382,    0 !   !END!  GR_M3213
DSC3270 ! X =   659.0000,   6085.000,    551.376,    0 !   !END!  GR_M3214
DSC3271 ! X =   659.2000,   6085.000,    515.960,    0 !   !END!  GR_M3215
DSC3272 ! X =   659.4000,   6085.000,    502.835,    0 !   !END!  GR_M3216
DSC3273 ! X =   659.6000,   6085.000,    500.703,    0 !   !END!  GR_M3217
DSC3274 ! X =   659.8000,   6085.000,    488.022,    0 !   !END!  GR_M3218
DSC3275 ! X =   660.0000,   6085.000,    495.094,    0 !   !END!  GR_M3219
DSC3276 ! X =   660.2000,   6085.000,    514.408,    0 !   !END!  GR_M3220
DSC3277 ! X =   659.0000,   6085.200,    531.962,    0 !   !END!  GR_M3221
DSC3278 ! X =   659.2000,   6085.200,    518.440,    0 !   !END!  GR_M3222
DSC3279 ! X =   659.4000,   6085.200,    503.000,    0 !   !END!  GR_M3223
DSC3280 ! X =   659.6000,   6085.200,    487.000,    0 !   !END!  GR_M3224
DSC3281 ! X =   659.8000,   6085.200,    503.864,    0 !   !END!  GR_M3225
DSC3282 ! X =   660.0000,   6085.200,    520.248,    0 !   !END!  GR_M3226
DSC3283 ! X =   660.2000,   6085.200,    518.000,    0 !   !END!  GR_M3227
DSC3284 ! X =   659.4000,   6085.400,    492.612,    0 !   !END!  GR_M3228
DSC3285 ! X =   659.6000,   6085.400,    499.214,    0 !   !END!  GR_M3229
DSC3286 ! X =   659.8000,   6085.400,    519.000,    0 !   !END!  GR_M3230
DSC3287 ! X =   660.0000,   6085.400,    521.000,    0 !   !END!  GR_M3231
DSC3288 ! X =   660.2000,   6085.400,    519.954,    0 !   !END!  GR_M3232
DSC3289 ! X =   659.4000,   6085.600,    487.060,    0 !   !END!  GR_M3233
DSC3290 ! X =   659.6000,   6085.600,    515.133,    0 !   !END!  GR_M3234
DSC3291 ! X =   659.8000,   6085.600,    521.000,    0 !   !END!  GR_M3235
DSC3292 ! X =   660.0000,   6085.600,    519.427,    0 !   !END!  GR_M3236
DSC3293 ! X =   660.2000,   6085.600,    495.661,    0 !   !END!  GR_M3237
DSC3294 ! X =   660.0000,   6085.800,    506.493,    0 !   !END!  GR_M3238
DSC3295 ! X =   660.2000,   6085.800,    471.707,    0 !   !END!  GR_M3239
DSC3296 ! X =   660.0000,   6086.000,    479.675,    0 !   !END!  GR_M3240
DSC3297 ! X =   660.2000,   6086.000,    468.000,    0 !   !END!  GR_M3241
DSC3298 ! X =   660.0000,   6086.200,    468.000,    0 !   !END!  GR_M3242
DSC3299 ! X =   660.2000,   6086.200,    468.000,    0 !   !END!  GR_M3243
DSC3300 ! X =   660.0000,   6086.400,    468.000,    0 !   !END!  GR_M3244
DSC3301 ! X =   660.2000,   6086.400,    468.000,    0 !   !END!  GR_M3245
DSC3302 ! X =   660.0000,   6086.600,    468.000,    0 !   !END!  GR_M3246
DSC3303 ! X =   660.2000,   6086.600,    468.000,    0 !   !END!  GR_M3247
DSC3304 ! X =   660.0000,   6086.800,    468.000,    0 !   !END!  GR_M3248
DSC3305 ! X =   660.2000,   6086.800,    468.000,    0 !   !END!  GR_M3249
DSC3306 ! X =   660.0000,   6087.000,    468.647,    0 !   !END!  GR_M3250
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DSC3307 ! X =   660.2000,   6087.000,    469.194,    0 !   !END!  GR_M3251
DSC3308 ! X =   660.0000,   6087.200,    472.641,    0 !   !END!  GR_M3252
DSC3309 ! X =   660.2000,   6087.200,    480.218,    0 !   !END!  GR_M3253
DSC3310 ! X =   660.0000,   6087.400,    478.923,    0 !   !END!  GR_M3254
DSC3311 ! X =   660.2000,   6087.400,    486.957,    0 !   !END!  GR_M3255
DSC3312 ! X =   660.0000,   6087.600,    485.950,    0 !   !END!  GR_M3256
DSC3313 ! X =   660.2000,   6087.600,    481.365,    0 !   !END!  GR_M3257
DSC3314 ! X =   660.0000,   6087.800,    468.521,    0 !   !END!  GR_M3258
DSC3315 ! X =   660.2000,   6087.800,    468.000,    0 !   !END!  GR_M3259
DSC3316 ! X =   660.0000,   6088.000,    468.000,    0 !   !END!  GR_M3260
DSC3317 ! X =   660.2000,   6088.000,    468.000,    0 !   !END!  GR_M3261
DSC3318 ! X =   660.0000,   6088.200,    468.000,    0 !   !END!  GR_M3262
DSC3319 ! X =   660.2000,   6088.200,    468.000,    0 !   !END!  GR_M3263
DSC3320 ! X =   660.0000,   6088.400,    476.406,    0 !   !END!  GR_M3264
DSC3321 ! X =   660.2000,   6088.400,    479.206,    0 !   !END!  GR_M3265
DSC3322 ! X =   655.8000,   6083.600,    499.406,    0 !   !END!  GR_M3266
DSC3323 ! X =   656.0000,   6083.600,    482.073,    0 !   !END!  GR_M3267
DSC3324 ! X =   656.2000,   6083.600,    468.000,    0 !   !END!  GR_M3268
DSC3325 ! X =   658.6000,   6083.600,    502.000,    0 !   !END!  GR_M3269
DSC3326 ! X =   658.8000,   6083.600,    499.006,    0 !   !END!  GR_M3270
DSC3327 ! X =   659.0000,   6083.600,    499.000,    0 !   !END!  GR_M3271
DSC3328 ! X =   659.2000,   6083.600,    507.947,    0 !   !END!  GR_M3272
DSC3329 ! X =   659.4000,   6083.600,    531.848,    0 !   !END!  GR_M3273
DSC3330 ! X =   659.6000,   6083.600,    537.480,    0 !   !END!  GR_M3274
DSC3331 ! X =   659.8000,   6083.600,    504.805,    0 !   !END!  GR_M3275
DSC3332 ! X =   658.6000,   6083.800,    505.526,    0 !   !END!  GR_M3276
DSC3333 ! X =   658.8000,   6083.800,    507.677,    0 !   !END!  GR_M3277
DSC3334 ! X =   659.0000,   6083.800,    518.590,    0 !   !END!  GR_M3278
DSC3335 ! X =   659.2000,   6083.800,    534.319,    0 !   !END!  GR_M3279
DSC3336 ! X =   659.4000,   6083.800,    547.448,    0 !   !END!  GR_M3280
DSC3337 ! X =   659.6000,   6083.800,    511.658,    0 !   !END!  GR_M3281
DSC3338 ! X =   659.8000,   6083.800,    488.688,    0 !   !END!  GR_M3282
DSC3339 ! X =   658.6000,   6084.000,    515.523,    0 !   !END!  GR_M3283
DSC3340 ! X =   658.8000,   6084.000,    534.459,    0 !   !END!  GR_M3284
DSC3341 ! X =   659.0000,   6084.000,    536.830,    0 !   !END!  GR_M3285
DSC3342 ! X =   659.2000,   6084.000,    531.374,    0 !   !END!  GR_M3286
DSC3343 ! X =   659.4000,   6084.000,    499.125,    0 !   !END!  GR_M3287
DSC3344 ! X =   659.6000,   6084.000,    482.000,    0 !   !END!  GR_M3288
DSC3345 ! X =   659.8000,   6084.000,    482.000,    0 !   !END!  GR_M3289
DSC3346 ! X =   658.6000,   6084.200,    538.990,    0 !   !END!  GR_M3290
DSC3347 ! X =   658.8000,   6084.200,    539.958,    0 !   !END!  GR_M3291
DSC3348 ! X =   659.0000,   6084.200,    516.122,    0 !   !END!  GR_M3292
DSC3349 ! X =   659.2000,   6084.200,    486.440,    0 !   !END!  GR_M3293
DSC3350 ! X =   659.4000,   6084.200,    482.000,    0 !   !END!  GR_M3294
DSC3351 ! X =   659.6000,   6084.200,    482.000,    0 !   !END!  GR_M3295
DSC3352 ! X =   659.8000,   6084.200,    482.685,    0 !   !END!  GR_M3296
DSC3353 ! X =   654.8000,   6082.800,    483.000,    0 !   !END!  GR_M3297
DSC3354 ! X =   655.0000,   6082.800,    486.954,    0 !   !END!  GR_M3298
DSC3355 ! X =   655.2000,   6082.800,    505.858,    0 !   !END!  GR_M3299
DSC3356 ! X =   655.4000,   6082.800,    512.134,    0 !   !END!  GR_M3300
DSC3357 ! X =   655.6000,   6082.800,    548.253,    0 !   !END!  GR_M3301
DSC3358 ! X =   655.8000,   6082.800,    581.694,    0 !   !END!  GR_M3302
DSC3359 ! X =   656.0000,   6082.800,    579.032,    0 !   !END!  GR_M3303
DSC3360 ! X =   656.2000,   6082.800,    543.237,    0 !   !END!  GR_M3304
DSC3361 ! X =   656.4000,   6082.800,    513.159,    0 !   !END!  GR_M3305
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DSC3362 ! X =   656.6000,   6082.800,    488.808,    0 !   !END!  GR_M3306
DSC3363 ! X =   656.8000,   6082.800,    470.232,    0 !   !END!  GR_M3307
DSC3364 ! X =   657.0000,   6082.800,    468.000,    0 !   !END!  GR_M3308
DSC3365 ! X =   657.2000,   6082.800,    468.000,    0 !   !END!  GR_M3309
DSC3366 ! X =   657.4000,   6082.800,    468.000,    0 !   !END!  GR_M3310
DSC3367 ! X =   657.6000,   6082.800,    468.000,    0 !   !END!  GR_M3311
DSC3368 ! X =   657.8000,   6082.800,    468.000,    0 !   !END!  GR_M3312
DSC3369 ! X =   658.0000,   6082.800,    468.000,    0 !   !END!  GR_M3313
DSC3370 ! X =   658.2000,   6082.800,    468.000,    0 !   !END!  GR_M3314
DSC3371 ! X =   658.4000,   6082.800,    476.323,    0 !   !END!  GR_M3315
DSC3372 ! X =   658.6000,   6082.800,    482.046,    0 !   !END!  GR_M3316
DSC3373 ! X =   658.8000,   6082.800,    487.603,    0 !   !END!  GR_M3317
DSC3374 ! X =   654.8000,   6083.000,    485.000,    0 !   !END!  GR_M3318
DSC3375 ! X =   655.0000,   6083.000,    500.557,    0 !   !END!  GR_M3319
DSC3376 ! X =   655.2000,   6083.000,    501.374,    0 !   !END!  GR_M3320
DSC3377 ! X =   655.4000,   6083.000,    544.387,    0 !   !END!  GR_M3321
DSC3378 ! X =   655.6000,   6083.000,    581.454,    0 !   !END!  GR_M3322
DSC3379 ! X =   655.8000,   6083.000,    580.810,    0 !   !END!  GR_M3323
DSC3380 ! X =   656.0000,   6083.000,    552.590,    0 !   !END!  GR_M3324
DSC3381 ! X =   656.2000,   6083.000,    515.922,    0 !   !END!  GR_M3325
DSC3382 ! X =   656.4000,   6083.000,    492.962,    0 !   !END!  GR_M3326
DSC3383 ! X =   656.6000,   6083.000,    470.002,    0 !   !END!  GR_M3327
DSC3384 ! X =   656.8000,   6083.000,    468.000,    0 !   !END!  GR_M3328
DSC3385 ! X =   657.0000,   6083.000,    468.000,    0 !   !END!  GR_M3329
DSC3386 ! X =   657.2000,   6083.000,    468.000,    0 !   !END!  GR_M3330
DSC3387 ! X =   657.4000,   6083.000,    468.000,    0 !   !END!  GR_M3331
DSC3388 ! X =   657.6000,   6083.000,    468.000,    0 !   !END!  GR_M3332
DSC3389 ! X =   657.8000,   6083.000,    468.000,    0 !   !END!  GR_M3333
DSC3390 ! X =   658.0000,   6083.000,    468.000,    0 !   !END!  GR_M3334
DSC3391 ! X =   658.2000,   6083.000,    478.109,    0 !   !END!  GR_M3335
DSC3392 ! X =   658.4000,   6083.000,    484.467,    0 !   !END!  GR_M3336
DSC3393 ! X =   658.6000,   6083.000,    493.482,    0 !   !END!  GR_M3337
DSC3394 ! X =   658.8000,   6083.000,    500.360,    0 !   !END!  GR_M3338
DSC3395 ! X =   654.8000,   6083.200,    490.000,    0 !   !END!  GR_M3339
DSC3396 ! X =   655.0000,   6083.200,    496.364,    0 !   !END!  GR_M3340
DSC3397 ! X =   655.2000,   6083.200,    536.178,    0 !   !END!  GR_M3341
DSC3398 ! X =   655.4000,   6083.200,    569.725,    0 !   !END!  GR_M3342
DSC3399 ! X =   655.6000,   6083.200,    582.369,    0 !   !END!  GR_M3343
DSC3400 ! X =   655.8000,   6083.200,    554.778,    0 !   !END!  GR_M3344
DSC3401 ! X =   656.0000,   6083.200,    512.395,    0 !   !END!  GR_M3345
DSC3402 ! X =   656.2000,   6083.200,    485.056,    0 !   !END!  GR_M3346
DSC3403 ! X =   658.6000,   6083.200,    503.280,    0 !   !END!  GR_M3347
DSC3404 ! X =   658.8000,   6083.200,    503.002,    0 !   !END!  GR_M3348
DSC3405 ! X =   654.8000,   6083.400,    498.062,    0 !   !END!  GR_M3349
DSC3406 ! X =   655.0000,   6083.400,    531.877,    0 !   !END!  GR_M3350
DSC3407 ! X =   655.2000,   6083.400,    557.408,    0 !   !END!  GR_M3351
DSC3408 ! X =   655.4000,   6083.400,    563.929,    0 !   !END!  GR_M3352
DSC3409 ! X =   655.6000,   6083.400,    546.416,    0 !   !END!  GR_M3353
DSC3410 ! X =   655.8000,   6083.400,    515.739,    0 !   !END!  GR_M3354
DSC3411 ! X =   656.0000,   6083.400,    495.946,    0 !   !END!  GR_M3355
DSC3412 ! X =   656.2000,   6083.400,    475.800,    0 !   !END!  GR_M3356
DSC3413 ! X =   658.6000,   6083.400,    504.048,    0 !   !END!  GR_M3357
DSC3414 ! X =   658.8000,   6083.400,    501.222,    0 !   !END!  GR_M3358
DSC3415 ! X =   654.8000,   6083.600,    524.027,    0 !   !END!  GR_M3359
DSC3416 ! X =   655.0000,   6083.600,    540.034,    0 !   !END!  GR_M3360
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DSC3417 ! X =   655.2000,   6083.600,    544.512,    0 !   !END!  GR_M3361
DSC3418 ! X =   655.4000,   6083.600,    530.782,    0 !   !END!  GR_M3362
DSC3419 ! X =   655.6000,   6083.600,    511.196,    0 !   !END!  GR_M3363
DSC3420 ! X =   654.8000,   6083.800,    522.610,    0 !   !END!  GR_M3364
DSC3421 ! X =   655.0000,   6083.800,    526.103,    0 !   !END!  GR_M3365
DSC3422 ! X =   655.2000,   6083.800,    517.000,    0 !   !END!  GR_M3366
DSC3423 ! X =   655.4000,   6083.800,    511.323,    0 !   !END!  GR_M3367
DSC3424 ! X =   655.6000,   6083.800,    500.106,    0 !   !END!  GR_M3368
DSC3425 ! X =   654.8000,   6084.000,    514.925,    0 !   !END!  GR_M3369
DSC3426 ! X =   655.0000,   6084.000,    514.638,    0 !   !END!  GR_M3370
DSC3427 ! X =   655.2000,   6084.000,    506.350,    0 !   !END!  GR_M3371
DSC3428 ! X =   655.4000,   6084.000,    495.933,    0 !   !END!  GR_M3372
DSC3429 ! X =   655.6000,   6084.000,    486.864,    0 !   !END!  GR_M3373
DSC3430 ! X =   654.8000,   6084.200,    500.387,    0 !   !END!  GR_M3374
DSC3431 ! X =   655.0000,   6084.200,    501.203,    0 !   !END!  GR_M3375
DSC3432 ! X =   655.2000,   6084.200,    490.029,    0 !   !END!  GR_M3376
DSC3433 ! X =   655.4000,   6084.200,    488.202,    0 !   !END!  GR_M3377
DSC3434 ! X =   655.6000,   6084.200,    473.540,    0 !   !END!  GR_M3378
DSC3435 ! X =   654.8000,   6084.400,    494.935,    0 !   !END!  GR_M3379
DSC3436 ! X =   655.0000,   6084.400,    489.544,    0 !   !END!  GR_M3380
DSC3437 ! X =   655.2000,   6084.400,    486.890,    0 !   !END!  GR_M3381
DSC3438 ! X =   655.4000,   6084.400,    475.648,    0 !   !END!  GR_M3382
DSC3439 ! X =   655.6000,   6084.400,    468.000,    0 !   !END!  GR_M3383
DSC3440 ! X =   654.8000,   6084.600,    489.664,    0 !   !END!  GR_M3384
DSC3441 ! X =   655.0000,   6084.600,    487.405,    0 !   !END!  GR_M3385
DSC3442 ! X =   655.2000,   6084.600,    469.259,    0 !   !END!  GR_M3386
DSC3443 ! X =   655.4000,   6084.600,    468.000,    0 !   !END!  GR_M3387
DSC3444 ! X =   655.6000,   6084.600,    468.000,    0 !   !END!  GR_M3388
DSC3445 ! X =   654.8000,   6084.800,    472.983,    0 !   !END!  GR_M3389
DSC3446 ! X =   655.0000,   6084.800,    468.000,    0 !   !END!  GR_M3390
DSC3447 ! X =   655.2000,   6084.800,    468.000,    0 !   !END!  GR_M3391
DSC3448 ! X =   655.4000,   6084.800,    468.000,    0 !   !END!  GR_M3392
DSC3449 ! X =   655.6000,   6084.800,    468.000,    0 !   !END!  GR_M3393
DSC3450 ! X =   654.8000,   6085.000,    468.310,    0 !   !END!  GR_M3394
DSC3451 ! X =   655.0000,   6085.000,    468.000,    0 !   !END!  GR_M3395
DSC3452 ! X =   655.2000,   6085.000,    468.000,    0 !   !END!  GR_M3396
DSC3453 ! X =   655.4000,   6085.000,    468.000,    0 !   !END!  GR_M3397
DSC3454 ! X =   655.6000,   6085.000,    468.000,    0 !   !END!  GR_M3398
DSC3455 ! X =   654.8000,   6085.200,    468.000,    0 !   !END!  GR_M3399
DSC3456 ! X =   655.0000,   6085.200,    468.000,    0 !   !END!  GR_M3400
DSC3457 ! X =   655.2000,   6085.200,    468.000,    0 !   !END!  GR_M3401
DSC3458 ! X =   655.4000,   6085.200,    468.000,    0 !   !END!  GR_M3402
DSC3459 ! X =   655.6000,   6085.200,    468.000,    0 !   !END!  GR_M3403
DSC3460 ! X =   654.8000,   6085.400,    468.000,    0 !   !END!  GR_M3404
DSC3461 ! X =   655.0000,   6085.400,    468.000,    0 !   !END!  GR_M3405
DSC3462 ! X =   655.2000,   6085.400,    468.000,    0 !   !END!  GR_M3406
DSC3463 ! X =   655.4000,   6085.400,    468.000,    0 !   !END!  GR_M3407
DSC3464 ! X =   655.6000,   6085.400,    468.000,    0 !   !END!  GR_M3408
DSC3465 ! X =   654.8000,   6085.600,    468.000,    0 !   !END!  GR_M3409
DSC3466 ! X =   655.0000,   6085.600,    468.000,    0 !   !END!  GR_M3410
DSC3467 ! X =   655.2000,   6085.600,    468.000,    0 !   !END!  GR_M3411
DSC3468 ! X =   655.4000,   6085.600,    468.000,    0 !   !END!  GR_M3412
DSC3469 ! X =   655.6000,   6085.600,    468.000,    0 !   !END!  GR_M3413
DSC3470 ! X =   654.8000,   6085.800,    468.000,    0 !   !END!  GR_M3414
DSC3471 ! X =   655.0000,   6085.800,    468.000,    0 !   !END!  GR_M3415
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DSC3472 ! X =   655.2000,   6085.800,    468.000,    0 !   !END!  GR_M3416
DSC3473 ! X =   655.4000,   6085.800,    468.000,    0 !   !END!  GR_M3417
DSC3474 ! X =   655.6000,   6085.800,    468.000,    0 !   !END!  GR_M3418
DSC3475 ! X =   654.8000,   6086.000,    468.000,    0 !   !END!  GR_M3419
DSC3476 ! X =   655.0000,   6086.000,    468.000,    0 !   !END!  GR_M3420
DSC3477 ! X =   655.2000,   6086.000,    468.000,    0 !   !END!  GR_M3421
DSC3478 ! X =   655.4000,   6086.000,    468.000,    0 !   !END!  GR_M3422
DSC3479 ! X =   655.6000,   6086.000,    471.990,    0 !   !END!  GR_M3423
DSC3480 ! X =   654.8000,   6086.200,    468.000,    0 !   !END!  GR_M3424
DSC3481 ! X =   655.0000,   6086.200,    468.000,    0 !   !END!  GR_M3425
DSC3482 ! X =   655.2000,   6086.200,    468.000,    0 !   !END!  GR_M3426
DSC3483 ! X =   655.4000,   6086.200,    468.000,    0 !   !END!  GR_M3427
DSC3484 ! X =   655.6000,   6086.200,    485.696,    0 !   !END!  GR_M3428
DSC3485 ! X =   654.8000,   6086.400,    468.000,    0 !   !END!  GR_M3429
DSC3486 ! X =   655.0000,   6086.400,    468.000,    0 !   !END!  GR_M3430
DSC3487 ! X =   655.2000,   6086.400,    468.000,    0 !   !END!  GR_M3431
DSC3488 ! X =   655.4000,   6086.400,    470.234,    0 !   !END!  GR_M3432
DSC3489 ! X =   655.6000,   6086.400,    490.282,    0 !   !END!  GR_M3433
DSC3490 ! X =   654.8000,   6086.600,    468.000,    0 !   !END!  GR_M3434
DSC3491 ! X =   655.0000,   6086.600,    468.000,    0 !   !END!  GR_M3435
DSC3492 ! X =   655.2000,   6086.600,    468.000,    0 !   !END!  GR_M3436
DSC3493 ! X =   655.4000,   6086.600,    472.503,    0 !   !END!  GR_M3437
DSC3494 ! X =   655.6000,   6086.600,    489.000,    0 !   !END!  GR_M3438
DSC3495 ! X =   654.8000,   6086.800,    468.000,    0 !   !END!  GR_M3439
DSC3496 ! X =   655.0000,   6086.800,    468.000,    0 !   !END!  GR_M3440
DSC3497 ! X =   655.2000,   6086.800,    468.000,    0 !   !END!  GR_M3441
DSC3498 ! X =   655.4000,   6086.800,    473.154,    0 !   !END!  GR_M3442
DSC3499 ! X =   655.6000,   6086.800,    485.150,    0 !   !END!  GR_M3443
DSC3500 ! X =   655.4000,   6082.200,    486.260,    0 !   !END!  GR_M3444
DSC3501 ! X =   655.6000,   6082.200,    499.618,    0 !   !END!  GR_M3445
DSC3502 ! X =   655.8000,   6082.200,    523.047,    0 !   !END!  GR_M3446
DSC3503 ! X =   656.0000,   6082.200,    538.119,    0 !   !END!  GR_M3447
DSC3504 ! X =   656.2000,   6082.200,    570.486,    0 !   !END!  GR_M3448
DSC3505 ! X =   656.4000,   6082.200,    588.451,    0 !   !END!  GR_M3449
DSC3506 ! X =   656.6000,   6082.200,    573.544,    0 !   !END!  GR_M3450
DSC3507 ! X =   656.8000,   6082.200,    548.477,    0 !   !END!  GR_M3451
DSC3508 ! X =   657.0000,   6082.200,    527.168,    0 !   !END!  GR_M3452
DSC3509 ! X =   657.2000,   6082.200,    504.415,    0 !   !END!  GR_M3453
DSC3510 ! X =   657.4000,   6082.200,    482.306,    0 !   !END!  GR_M3454
DSC3511 ! X =   657.6000,   6082.200,    468.562,    0 !   !END!  GR_M3455
DSC3512 ! X =   657.8000,   6082.200,    468.000,    0 !   !END!  GR_M3456
DSC3513 ! X =   658.0000,   6082.200,    468.000,    0 !   !END!  GR_M3457
DSC3514 ! X =   658.2000,   6082.200,    468.000,    0 !   !END!  GR_M3458
DSC3515 ! X =   658.4000,   6082.200,    468.000,    0 !   !END!  GR_M3459
DSC3516 ! X =   658.6000,   6082.200,    468.000,    0 !   !END!  GR_M3460
DSC3517 ! X =   658.8000,   6082.200,    468.000,    0 !   !END!  GR_M3461
DSC3518 ! X =   659.0000,   6082.200,    468.000,    0 !   !END!  GR_M3462
DSC3519 ! X =   659.2000,   6082.200,    468.723,    0 !   !END!  GR_M3463
DSC3520 ! X =   659.4000,   6082.200,    468.030,    0 !   !END!  GR_M3464
DSC3521 ! X =   655.4000,   6082.400,    493.397,    0 !   !END!  GR_M3465
DSC3522 ! X =   655.6000,   6082.400,    518.856,    0 !   !END!  GR_M3466
DSC3523 ! X =   655.8000,   6082.400,    530.686,    0 !   !END!  GR_M3467
DSC3524 ! X =   656.0000,   6082.400,    557.432,    0 !   !END!  GR_M3468
DSC3525 ! X =   656.2000,   6082.400,    583.566,    0 !   !END!  GR_M3469
DSC3526 ! X =   656.4000,   6082.400,    571.117,    0 !   !END!  GR_M3470
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DSC3527 ! X =   656.6000,   6082.400,    549.469,    0 !   !END!  GR_M3471
DSC3528 ! X =   656.8000,   6082.400,    522.856,    0 !   !END!  GR_M3472
DSC3529 ! X =   657.0000,   6082.400,    494.997,    0 !   !END!  GR_M3473
DSC3530 ! X =   657.2000,   6082.400,    475.688,    0 !   !END!  GR_M3474
DSC3531 ! X =   657.4000,   6082.400,    468.000,    0 !   !END!  GR_M3475
DSC3532 ! X =   657.6000,   6082.400,    468.000,    0 !   !END!  GR_M3476
DSC3533 ! X =   657.8000,   6082.400,    468.000,    0 !   !END!  GR_M3477
DSC3534 ! X =   658.0000,   6082.400,    468.000,    0 !   !END!  GR_M3478
DSC3535 ! X =   658.2000,   6082.400,    468.000,    0 !   !END!  GR_M3479
DSC3536 ! X =   658.4000,   6082.400,    468.000,    0 !   !END!  GR_M3480
DSC3537 ! X =   658.6000,   6082.400,    468.000,    0 !   !END!  GR_M3481
DSC3538 ! X =   658.8000,   6082.400,    469.000,    0 !   !END!  GR_M3482
DSC3539 ! X =   659.0000,   6082.400,    470.200,    0 !   !END!  GR_M3483
DSC3540 ! X =   659.2000,   6082.400,    469.893,    0 !   !END!  GR_M3484
DSC3541 ! X =   659.4000,   6082.400,    471.590,    0 !   !END!  GR_M3485
DSC3542 ! X =   655.4000,   6082.600,    515.992,    0 !   !END!  GR_M3486
DSC3543 ! X =   655.6000,   6082.600,    527.176,    0 !   !END!  GR_M3487
DSC3544 ! X =   655.8000,   6082.600,    550.241,    0 !   !END!  GR_M3488
DSC3545 ! X =   656.0000,   6082.600,    580.690,    0 !   !END!  GR_M3489
DSC3546 ! X =   656.2000,   6082.600,    573.723,    0 !   !END!  GR_M3490
DSC3547 ! X =   656.4000,   6082.600,    543.728,    0 !   !END!  GR_M3491
DSC3548 ! X =   656.6000,   6082.600,    518.800,    0 !   !END!  GR_M3492
DSC3549 ! X =   656.8000,   6082.600,    491.510,    0 !   !END!  GR_M3493
DSC3550 ! X =   657.0000,   6082.600,    470.461,    0 !   !END!  GR_M3494
DSC3551 ! X =   657.2000,   6082.600,    468.000,    0 !   !END!  GR_M3495
DSC3552 ! X =   657.4000,   6082.600,    468.000,    0 !   !END!  GR_M3496
DSC3553 ! X =   657.6000,   6082.600,    468.000,    0 !   !END!  GR_M3497
DSC3554 ! X =   657.8000,   6082.600,    468.000,    0 !   !END!  GR_M3498
DSC3555 ! X =   658.0000,   6082.600,    468.000,    0 !   !END!  GR_M3499
DSC3556 ! X =   658.2000,   6082.600,    468.000,    0 !   !END!  GR_M3500
DSC3557 ! X =   658.4000,   6082.600,    468.000,    0 !   !END!  GR_M3501
DSC3558 ! X =   658.6000,   6082.600,    474.430,    0 !   !END!  GR_M3502
DSC3559 ! X =   658.8000,   6082.600,    477.454,    0 !   !END!  GR_M3503
DSC3560 ! X =   659.0000,   6082.600,    484.094,    0 !   !END!  GR_M3504
DSC3561 ! X =   659.2000,   6082.600,    489.619,    0 !   !END!  GR_M3505
DSC3562 ! X =   659.4000,   6082.600,    488.206,    0 !   !END!  GR_M3506
DSC3563 ! X =   659.0000,   6082.800,    494.437,    0 !   !END!  GR_M3507
DSC3564 ! X =   659.2000,   6082.800,    493.000,    0 !   !END!  GR_M3508
DSC3565 ! X =   659.4000,   6082.800,    492.000,    0 !   !END!  GR_M3509
DSC3566 ! X =   659.0000,   6083.000,    502.058,    0 !   !END!  GR_M3510
DSC3567 ! X =   659.2000,   6083.000,    494.000,    0 !   !END!  GR_M3511
DSC3568 ! X =   659.4000,   6083.000,    494.572,    0 !   !END!  GR_M3512
DSC3569 ! X =   659.0000,   6083.200,    500.415,    0 !   !END!  GR_M3513
DSC3570 ! X =   659.2000,   6083.200,    494.000,    0 !   !END!  GR_M3514
DSC3571 ! X =   659.4000,   6083.200,    497.752,    0 !   !END!  GR_M3515
DSC3572 ! X =   659.0000,   6083.400,    496.885,    0 !   !END!  GR_M3516
DSC3573 ! X =   659.2000,   6083.400,    497.992,    0 !   !END!  GR_M3517
DSC3574 ! X =   659.4000,   6083.400,    505.650,    0 !   !END!  GR_M3518
DSC3575 ! X =   651.3000,   6078.800,    478.000,    0 !   !END!  GR_M3519
DSC3576 ! X =   651.8000,   6078.800,    479.000,    0 !   !END!  GR_M3520
DSC3577 ! X =   652.3000,   6078.800,    478.000,    0 !   !END!  GR_M3521
DSC3578 ! X =   652.8000,   6078.800,    477.000,    0 !   !END!  GR_M3522
DSC3579 ! X =   653.3000,   6078.800,    476.000,    0 !   !END!  GR_M3523
DSC3580 ! X =   653.8000,   6078.800,    475.000,    0 !   !END!  GR_M3524
DSC3581 ! X =   654.3000,   6078.800,    473.000,    0 !   !END!  GR_M3525
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DSC3582 ! X =   654.8000,   6078.800,    472.000,    0 !   !END!  GR_M3526
DSC3583 ! X =   655.3000,   6078.800,    472.000,    0 !   !END!  GR_M3527
DSC3584 ! X =   655.8000,   6078.800,    468.878,    0 !   !END!  GR_M3528
DSC3585 ! X =   656.3000,   6078.800,    470.000,    0 !   !END!  GR_M3529
DSC3586 ! X =   656.8000,   6078.800,    473.000,    0 !   !END!  GR_M3530
DSC3587 ! X =   657.3000,   6078.800,    472.000,    0 !   !END!  GR_M3531
DSC3588 ! X =   657.8000,   6078.800,    470.000,    0 !   !END!  GR_M3532
DSC3589 ! X =   658.3000,   6078.800,    482.118,    0 !   !END!  GR_M3533
DSC3590 ! X =   658.8000,   6078.800,    515.341,    0 !   !END!  GR_M3534
DSC3591 ! X =   659.3000,   6078.800,    557.330,    0 !   !END!  GR_M3535
DSC3592 ! X =   659.8000,   6078.800,    524.196,    0 !   !END!  GR_M3536
DSC3593 ! X =   660.3000,   6078.800,    534.952,    0 !   !END!  GR_M3537
DSC3594 ! X =   660.8000,   6078.800,    514.490,    0 !   !END!  GR_M3538
DSC3595 ! X =   661.3000,   6078.800,    468.000,    0 !   !END!  GR_M3539
DSC3596 ! X =   661.8000,   6078.800,    468.000,    0 !   !END!  GR_M3540
DSC3597 ! X =   662.3000,   6078.800,    468.000,    0 !   !END!  GR_M3541
DSC3598 ! X =   662.8000,   6078.800,    468.000,    0 !   !END!  GR_M3542
DSC3599 ! X =   663.3000,   6078.800,    473.000,    0 !   !END!  GR_M3543
DSC3600 ! X =   651.3000,   6079.300,    478.000,    0 !   !END!  GR_M3544
DSC3601 ! X =   651.8000,   6079.300,    479.000,    0 !   !END!  GR_M3545
DSC3602 ! X =   652.3000,   6079.300,    477.422,    0 !   !END!  GR_M3546
DSC3603 ! X =   652.8000,   6079.300,    476.000,    0 !   !END!  GR_M3547
DSC3604 ! X =   653.3000,   6079.300,    475.000,    0 !   !END!  GR_M3548
DSC3605 ! X =   653.8000,   6079.300,    473.000,    0 !   !END!  GR_M3549
DSC3606 ! X =   654.3000,   6079.300,    472.000,    0 !   !END!  GR_M3550
DSC3607 ! X =   654.8000,   6079.300,    472.000,    0 !   !END!  GR_M3551
DSC3608 ! X =   655.3000,   6079.300,    472.000,    0 !   !END!  GR_M3552
DSC3609 ! X =   655.8000,   6079.300,    470.158,    0 !   !END!  GR_M3553
DSC3610 ! X =   656.3000,   6079.300,    471.000,    0 !   !END!  GR_M3554
DSC3611 ! X =   656.8000,   6079.300,    476.000,    0 !   !END!  GR_M3555
DSC3612 ! X =   657.3000,   6079.300,    478.483,    0 !   !END!  GR_M3556
DSC3613 ! X =   657.8000,   6079.300,    485.426,    0 !   !END!  GR_M3557
DSC3614 ! X =   658.3000,   6079.300,    515.667,    0 !   !END!  GR_M3558
DSC3615 ! X =   658.8000,   6079.300,    548.467,    0 !   !END!  GR_M3559
DSC3616 ! X =   659.3000,   6079.300,    541.541,    0 !   !END!  GR_M3560
DSC3617 ! X =   659.8000,   6079.300,    559.205,    0 !   !END!  GR_M3561
DSC3618 ! X =   660.3000,   6079.300,    508.382,    0 !   !END!  GR_M3562
DSC3619 ! X =   660.8000,   6079.300,    468.162,    0 !   !END!  GR_M3563
DSC3620 ! X =   661.3000,   6079.300,    468.000,    0 !   !END!  GR_M3564
DSC3621 ! X =   661.8000,   6079.300,    468.000,    0 !   !END!  GR_M3565
DSC3622 ! X =   662.3000,   6079.300,    472.490,    0 !   !END!  GR_M3566
DSC3623 ! X =   662.8000,   6079.300,    474.746,    0 !   !END!  GR_M3567
DSC3624 ! X =   663.3000,   6079.300,    480.569,    0 !   !END!  GR_M3568
DSC3625 ! X =   651.3000,   6079.800,    480.602,    0 !   !END!  GR_M3569
DSC3626 ! X =   651.8000,   6079.800,    481.000,    0 !   !END!  GR_M3570
DSC3627 ! X =   652.3000,   6079.800,    478.000,    0 !   !END!  GR_M3571
DSC3628 ! X =   652.8000,   6079.800,    475.000,    0 !   !END!  GR_M3572
DSC3629 ! X =   653.3000,   6079.800,    473.000,    0 !   !END!  GR_M3573
DSC3630 ! X =   653.8000,   6079.800,    472.000,    0 !   !END!  GR_M3574
DSC3631 ! X =   654.3000,   6079.800,    472.000,    0 !   !END!  GR_M3575
DSC3632 ! X =   654.8000,   6079.800,    472.000,    0 !   !END!  GR_M3576
DSC3633 ! X =   655.3000,   6079.800,    472.000,    0 !   !END!  GR_M3577
DSC3634 ! X =   655.8000,   6079.800,    472.000,    0 !   !END!  GR_M3578
DSC3635 ! X =   656.3000,   6079.800,    474.431,    0 !   !END!  GR_M3579
DSC3636 ! X =   656.8000,   6079.800,    480.793,    0 !   !END!  GR_M3580
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DSC3637 ! X =   657.3000,   6079.800,    485.726,    0 !   !END!  GR_M3581
DSC3638 ! X =   657.8000,   6079.800,    516.201,    0 !   !END!  GR_M3582
DSC3639 ! X =   658.3000,   6079.800,    538.383,    0 !   !END!  GR_M3583
DSC3640 ! X =   658.8000,   6079.800,    563.256,    0 !   !END!  GR_M3584
DSC3641 ! X =   659.3000,   6079.800,    580.971,    0 !   !END!  GR_M3585
DSC3642 ! X =   659.8000,   6079.800,    532.056,    0 !   !END!  GR_M3586
DSC3643 ! X =   660.3000,   6079.800,    468.000,    0 !   !END!  GR_M3587
DSC3644 ! X =   660.8000,   6079.800,    468.000,    0 !   !END!  GR_M3588
DSC3645 ! X =   661.3000,   6079.800,    468.000,    0 !   !END!  GR_M3589
DSC3646 ! X =   661.8000,   6079.800,    475.000,    0 !   !END!  GR_M3590
DSC3647 ! X =   662.3000,   6079.800,    480.331,    0 !   !END!  GR_M3591
DSC3648 ! X =   662.8000,   6079.800,    484.293,    0 !   !END!  GR_M3592
DSC3649 ! X =   663.3000,   6079.800,    509.965,    0 !   !END!  GR_M3593
DSC3650 ! X =   651.3000,   6080.300,    484.000,    0 !   !END!  GR_M3594
DSC3651 ! X =   651.8000,   6080.300,    480.798,    0 !   !END!  GR_M3595
DSC3652 ! X =   652.3000,   6080.300,    478.000,    0 !   !END!  GR_M3596
DSC3653 ! X =   652.8000,   6080.300,    474.000,    0 !   !END!  GR_M3597
DSC3654 ! X =   653.3000,   6080.300,    474.000,    0 !   !END!  GR_M3598
DSC3655 ! X =   653.8000,   6080.300,    472.000,    0 !   !END!  GR_M3599
DSC3656 ! X =   654.3000,   6080.300,    472.000,    0 !   !END!  GR_M3600
DSC3657 ! X =   654.8000,   6080.300,    472.000,    0 !   !END!  GR_M3601
DSC3658 ! X =   655.3000,   6080.300,    474.274,    0 !   !END!  GR_M3602
DSC3659 ! X =   655.8000,   6080.300,    475.000,    0 !   !END!  GR_M3603
DSC3660 ! X =   656.3000,   6080.300,    480.000,    0 !   !END!  GR_M3604
DSC3661 ! X =   656.8000,   6080.300,    490.930,    0 !   !END!  GR_M3605
DSC3662 ! X =   657.3000,   6080.300,    528.251,    0 !   !END!  GR_M3606
DSC3663 ! X =   657.8000,   6080.300,    565.621,    0 !   !END!  GR_M3607
DSC3664 ! X =   658.3000,   6080.300,    572.523,    0 !   !END!  GR_M3608
DSC3665 ! X =   658.8000,   6080.300,    586.190,    0 !   !END!  GR_M3609
DSC3666 ! X =   659.3000,   6080.300,    515.314,    0 !   !END!  GR_M3610
DSC3667 ! X =   659.8000,   6080.300,    469.581,    0 !   !END!  GR_M3611
DSC3668 ! X =   660.3000,   6080.300,    468.000,    0 !   !END!  GR_M3612
DSC3669 ! X =   660.8000,   6080.300,    468.000,    0 !   !END!  GR_M3613
DSC3670 ! X =   661.3000,   6080.300,    470.000,    0 !   !END!  GR_M3614
DSC3671 ! X =   661.8000,   6080.300,    479.570,    0 !   !END!  GR_M3615
DSC3672 ! X =   662.3000,   6080.300,    490.246,    0 !   !END!  GR_M3616
DSC3673 ! X =   662.8000,   6080.300,    515.649,    0 !   !END!  GR_M3617
DSC3674 ! X =   663.3000,   6080.300,    532.867,    0 !   !END!  GR_M3618
DSC3675 ! X =   651.3000,   6080.800,    484.000,    0 !   !END!  GR_M3619
DSC3676 ! X =   651.8000,   6080.800,    480.000,    0 !   !END!  GR_M3620
DSC3677 ! X =   652.3000,   6080.800,    475.000,    0 !   !END!  GR_M3621
DSC3678 ! X =   652.8000,   6080.800,    474.000,    0 !   !END!  GR_M3622
DSC3679 ! X =   653.3000,   6080.800,    473.000,    0 !   !END!  GR_M3623
DSC3680 ! X =   653.8000,   6080.800,    472.000,    0 !   !END!  GR_M3624
DSC3681 ! X =   654.3000,   6080.800,    472.000,    0 !   !END!  GR_M3625
DSC3682 ! X =   654.8000,   6080.800,    475.000,    0 !   !END!  GR_M3626
DSC3683 ! X =   655.3000,   6080.800,    476.316,    0 !   !END!  GR_M3627
DSC3684 ! X =   655.8000,   6080.800,    478.000,    0 !   !END!  GR_M3628
DSC3685 ! X =   656.3000,   6080.800,    485.000,    0 !   !END!  GR_M3629
DSC3686 ! X =   656.8000,   6080.800,    518.362,    0 !   !END!  GR_M3630
DSC3687 ! X =   657.3000,   6080.800,    546.373,    0 !   !END!  GR_M3631
DSC3688 ! X =   657.8000,   6080.800,    580.891,    0 !   !END!  GR_M3632
DSC3689 ! X =   658.3000,   6080.800,    556.275,    0 !   !END!  GR_M3633
DSC3690 ! X =   658.8000,   6080.800,    497.320,    0 !   !END!  GR_M3634
DSC3691 ! X =   659.3000,   6080.800,    469.208,    0 !   !END!  GR_M3635
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DSC3692 ! X =   659.8000,   6080.800,    468.000,    0 !   !END!  GR_M3636
DSC3693 ! X =   660.3000,   6080.800,    468.000,    0 !   !END!  GR_M3637
DSC3694 ! X =   660.8000,   6080.800,    470.000,    0 !   !END!  GR_M3638
DSC3695 ! X =   661.3000,   6080.800,    479.715,    0 !   !END!  GR_M3639
DSC3696 ! X =   661.8000,   6080.800,    497.173,    0 !   !END!  GR_M3640
DSC3697 ! X =   662.3000,   6080.800,    526.307,    0 !   !END!  GR_M3641
DSC3698 ! X =   662.8000,   6080.800,    514.522,    0 !   !END!  GR_M3642
DSC3699 ! X =   663.3000,   6080.800,    482.394,    0 !   !END!  GR_M3643
DSC3700 ! X =   651.3000,   6081.300,    486.000,    0 !   !END!  GR_M3644
DSC3701 ! X =   651.8000,   6081.300,    482.000,    0 !   !END!  GR_M3645
DSC3702 ! X =   652.3000,   6081.300,    474.000,    0 !   !END!  GR_M3646
DSC3703 ! X =   652.8000,   6081.300,    474.000,    0 !   !END!  GR_M3647
DSC3704 ! X =   653.3000,   6081.300,    472.000,    0 !   !END!  GR_M3648
DSC3705 ! X =   653.8000,   6081.300,    473.240,    0 !   !END!  GR_M3649
DSC3706 ! X =   654.3000,   6081.300,    474.000,    0 !   !END!  GR_M3650
DSC3707 ! X =   654.8000,   6081.300,    476.000,    0 !   !END!  GR_M3651
DSC3708 ! X =   655.3000,   6081.300,    480.368,    0 !   !END!  GR_M3652
DSC3709 ! X =   655.8000,   6081.300,    482.000,    0 !   !END!  GR_M3653
DSC3710 ! X =   656.3000,   6081.300,    506.035,    0 !   !END!  GR_M3654
DSC3711 ! X =   656.8000,   6081.300,    543.064,    0 !   !END!  GR_M3655
DSC3712 ! X =   657.3000,   6081.300,    581.627,    0 !   !END!  GR_M3656
DSC3713 ! X =   657.8000,   6081.300,    547.857,    0 !   !END!  GR_M3657
DSC3714 ! X =   658.3000,   6081.300,    483.006,    0 !   !END!  GR_M3658
DSC3715 ! X =   658.8000,   6081.300,    468.000,    0 !   !END!  GR_M3659
DSC3716 ! X =   659.3000,   6081.300,    468.661,    0 !   !END!  GR_M3660
DSC3717 ! X =   659.8000,   6081.300,    468.659,    0 !   !END!  GR_M3661
DSC3718 ! X =   660.3000,   6081.300,    472.000,    0 !   !END!  GR_M3662
DSC3719 ! X =   660.8000,   6081.300,    477.000,    0 !   !END!  GR_M3663
DSC3720 ! X =   661.3000,   6081.300,    492.896,    0 !   !END!  GR_M3664
DSC3721 ! X =   661.8000,   6081.300,    535.479,    0 !   !END!  GR_M3665
DSC3722 ! X =   662.3000,   6081.300,    498.482,    0 !   !END!  GR_M3666
DSC3723 ! X =   662.8000,   6081.300,    468.022,    0 !   !END!  GR_M3667
DSC3724 ! X =   663.3000,   6081.300,    468.000,    0 !   !END!  GR_M3668
DSC3725 ! X =   651.3000,   6081.800,    485.019,    0 !   !END!  GR_M3669
DSC3726 ! X =   651.8000,   6081.800,    485.000,    0 !   !END!  GR_M3670
DSC3727 ! X =   652.3000,   6081.800,    478.000,    0 !   !END!  GR_M3671
DSC3728 ! X =   652.8000,   6081.800,    473.611,    0 !   !END!  GR_M3672
DSC3729 ! X =   653.3000,   6081.800,    474.000,    0 !   !END!  GR_M3673
DSC3730 ! X =   653.8000,   6081.800,    478.000,    0 !   !END!  GR_M3674
DSC3731 ! X =   654.3000,   6081.800,    477.000,    0 !   !END!  GR_M3675
DSC3732 ! X =   654.8000,   6081.800,    477.000,    0 !   !END!  GR_M3676
DSC3733 ! X =   655.3000,   6081.800,    482.000,    0 !   !END!  GR_M3677
DSC3734 ! X =   655.8000,   6081.800,    491.274,    0 !   !END!  GR_M3678
DSC3735 ! X =   656.3000,   6081.800,    539.422,    0 !   !END!  GR_M3679
DSC3736 ! X =   656.8000,   6081.800,    606.360,    0 !   !END!  GR_M3680
DSC3737 ! X =   657.3000,   6081.800,    546.847,    0 !   !END!  GR_M3681
DSC3738 ! X =   657.8000,   6081.800,    479.634,    0 !   !END!  GR_M3682
DSC3739 ! X =   658.3000,   6081.800,    468.000,    0 !   !END!  GR_M3683
DSC3740 ! X =   658.8000,   6081.800,    468.000,    0 !   !END!  GR_M3684
DSC3741 ! X =   659.3000,   6081.800,    468.000,    0 !   !END!  GR_M3685
DSC3742 ! X =   659.8000,   6081.800,    471.000,    0 !   !END!  GR_M3686
DSC3743 ! X =   660.3000,   6081.800,    478.000,    0 !   !END!  GR_M3687
DSC3744 ! X =   660.8000,   6081.800,    486.582,    0 !   !END!  GR_M3688
DSC3745 ! X =   661.3000,   6081.800,    524.973,    0 !   !END!  GR_M3689
DSC3746 ! X =   661.8000,   6081.800,    483.000,    0 !   !END!  GR_M3690
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DSC3747 ! X =   662.3000,   6081.800,    468.000,    0 !   !END!  GR_M3691
DSC3748 ! X =   662.8000,   6081.800,    468.000,    0 !   !END!  GR_M3692
DSC3749 ! X =   663.3000,   6081.800,    494.165,    0 !   !END!  GR_M3693
DSC3750 ! X =   651.3000,   6082.300,    488.000,    0 !   !END!  GR_M3694
DSC3751 ! X =   651.8000,   6082.300,    483.000,    0 !   !END!  GR_M3695
DSC3752 ! X =   652.3000,   6082.300,    480.012,    0 !   !END!  GR_M3696
DSC3753 ! X =   652.8000,   6082.300,    474.000,    0 !   !END!  GR_M3697
DSC3754 ! X =   653.3000,   6082.300,    476.000,    0 !   !END!  GR_M3698
DSC3755 ! X =   653.8000,   6082.300,    482.989,    0 !   !END!  GR_M3699
DSC3756 ! X =   654.3000,   6082.300,    481.000,    0 !   !END!  GR_M3700
DSC3757 ! X =   654.8000,   6082.300,    481.144,    0 !   !END!  GR_M3701
DSC3758 ! X =   655.3000,   6082.300,    485.040,    0 !   !END!  GR_M3702
DSC3759 ! X =   659.8000,   6082.300,    480.666,    0 !   !END!  GR_M3703
DSC3760 ! X =   660.3000,   6082.300,    489.410,    0 !   !END!  GR_M3704
DSC3761 ! X =   660.8000,   6082.300,    532.218,    0 !   !END!  GR_M3705
DSC3762 ! X =   661.3000,   6082.300,    486.974,    0 !   !END!  GR_M3706
DSC3763 ! X =   661.8000,   6082.300,    468.000,    0 !   !END!  GR_M3707
DSC3764 ! X =   662.3000,   6082.300,    474.806,    0 !   !END!  GR_M3708
DSC3765 ! X =   662.8000,   6082.300,    516.402,    0 !   !END!  GR_M3709
DSC3766 ! X =   663.3000,   6082.300,    510.082,    0 !   !END!  GR_M3710
DSC3767 ! X =   651.3000,   6082.800,    491.899,    0 !   !END!  GR_M3711
DSC3768 ! X =   651.8000,   6082.800,    487.000,    0 !   !END!  GR_M3712
DSC3769 ! X =   652.3000,   6082.800,    476.478,    0 !   !END!  GR_M3713
DSC3770 ! X =   652.8000,   6082.800,    475.000,    0 !   !END!  GR_M3714
DSC3771 ! X =   653.3000,   6082.800,    479.997,    0 !   !END!  GR_M3715
DSC3772 ! X =   653.8000,   6082.800,    485.000,    0 !   !END!  GR_M3716
DSC3773 ! X =   654.3000,   6082.800,    485.000,    0 !   !END!  GR_M3717
DSC3774 ! X =   659.8000,   6082.800,    495.672,    0 !   !END!  GR_M3718
DSC3775 ! X =   660.3000,   6082.800,    537.000,    0 !   !END!  GR_M3719
DSC3776 ! X =   660.8000,   6082.800,    492.349,    0 !   !END!  GR_M3720
DSC3777 ! X =   661.3000,   6082.800,    469.033,    0 !   !END!  GR_M3721
DSC3778 ! X =   661.8000,   6082.800,    468.000,    0 !   !END!  GR_M3722
DSC3779 ! X =   662.3000,   6082.800,    515.858,    0 !   !END!  GR_M3723
DSC3780 ! X =   662.8000,   6082.800,    505.006,    0 !   !END!  GR_M3724
DSC3781 ! X =   663.3000,   6082.800,    468.000,    0 !   !END!  GR_M3725
DSC3782 ! X =   651.3000,   6083.300,    491.000,    0 !   !END!  GR_M3726
DSC3783 ! X =   651.8000,   6083.300,    483.278,    0 !   !END!  GR_M3727
DSC3784 ! X =   652.3000,   6083.300,    477.586,    0 !   !END!  GR_M3728
DSC3785 ! X =   652.8000,   6083.300,    475.581,    0 !   !END!  GR_M3729
DSC3786 ! X =   653.3000,   6083.300,    480.000,    0 !   !END!  GR_M3730
DSC3787 ! X =   653.8000,   6083.300,    485.000,    0 !   !END!  GR_M3731
DSC3788 ! X =   654.3000,   6083.300,    485.000,    0 !   !END!  GR_M3732
DSC3789 ! X =   659.8000,   6083.300,    527.859,    0 !   !END!  GR_M3733
DSC3790 ! X =   660.3000,   6083.300,    495.734,    0 !   !END!  GR_M3734
DSC3791 ! X =   660.8000,   6083.300,    483.142,    0 !   !END!  GR_M3735
DSC3792 ! X =   661.3000,   6083.300,    477.561,    0 !   !END!  GR_M3736
DSC3793 ! X =   661.8000,   6083.300,    489.358,    0 !   !END!  GR_M3737
DSC3794 ! X =   662.3000,   6083.300,    493.477,    0 !   !END!  GR_M3738
DSC3795 ! X =   662.8000,   6083.300,    468.000,    0 !   !END!  GR_M3739
DSC3796 ! X =   663.3000,   6083.300,    468.000,    0 !   !END!  GR_M3740
DSC3797 ! X =   651.3000,   6083.800,    486.000,    0 !   !END!  GR_M3741
DSC3798 ! X =   651.8000,   6083.800,    479.000,    0 !   !END!  GR_M3742
DSC3799 ! X =   652.3000,   6083.800,    475.000,    0 !   !END!  GR_M3743
DSC3800 ! X =   652.8000,   6083.800,    478.044,    0 !   !END!  GR_M3744
DSC3801 ! X =   653.3000,   6083.800,    483.000,    0 !   !END!  GR_M3745
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DSC3802 ! X =   653.8000,   6083.800,    485.000,    0 !   !END!  GR_M3746
DSC3803 ! X =   654.3000,   6083.800,    495.366,    0 !   !END!  GR_M3747
DSC3804 ! X =   660.3000,   6083.800,    489.000,    0 !   !END!  GR_M3748
DSC3805 ! X =   660.8000,   6083.800,    482.737,    0 !   !END!  GR_M3749
DSC3806 ! X =   661.3000,   6083.800,    482.995,    0 !   !END!  GR_M3750
DSC3807 ! X =   661.8000,   6083.800,    472.774,    0 !   !END!  GR_M3751
DSC3808 ! X =   662.3000,   6083.800,    468.000,    0 !   !END!  GR_M3752
DSC3809 ! X =   662.8000,   6083.800,    468.000,    0 !   !END!  GR_M3753
DSC3810 ! X =   663.3000,   6083.800,    468.000,    0 !   !END!  GR_M3754
DSC3811 ! X =   651.3000,   6084.300,    481.894,    0 !   !END!  GR_M3755
DSC3812 ! X =   651.8000,   6084.300,    478.000,    0 !   !END!  GR_M3756
DSC3813 ! X =   652.3000,   6084.300,    481.005,    0 !   !END!  GR_M3757
DSC3814 ! X =   652.8000,   6084.300,    483.000,    0 !   !END!  GR_M3758
DSC3815 ! X =   653.3000,   6084.300,    482.734,    0 !   !END!  GR_M3759
DSC3816 ! X =   653.8000,   6084.300,    487.000,    0 !   !END!  GR_M3760
DSC3817 ! X =   654.3000,   6084.300,    502.068,    0 !   !END!  GR_M3761
DSC3818 ! X =   660.3000,   6084.300,    486.914,    0 !   !END!  GR_M3762
DSC3819 ! X =   660.8000,   6084.300,    491.266,    0 !   !END!  GR_M3763
DSC3820 ! X =   661.3000,   6084.300,    471.322,    0 !   !END!  GR_M3764
DSC3821 ! X =   661.8000,   6084.300,    468.000,    0 !   !END!  GR_M3765
DSC3822 ! X =   662.3000,   6084.300,    468.000,    0 !   !END!  GR_M3766
DSC3823 ! X =   662.8000,   6084.300,    468.000,    0 !   !END!  GR_M3767
DSC3824 ! X =   663.3000,   6084.300,    468.000,    0 !   !END!  GR_M3768
DSC3825 ! X =   651.3000,   6084.800,    480.045,    0 !   !END!  GR_M3769
DSC3826 ! X =   651.8000,   6084.800,    487.000,    0 !   !END!  GR_M3770
DSC3827 ! X =   652.3000,   6084.800,    487.000,    0 !   !END!  GR_M3771
DSC3828 ! X =   652.8000,   6084.800,    487.000,    0 !   !END!  GR_M3772
DSC3829 ! X =   653.3000,   6084.800,    486.003,    0 !   !END!  GR_M3773
DSC3830 ! X =   653.8000,   6084.800,    481.561,    0 !   !END!  GR_M3774
DSC3831 ! X =   654.3000,   6084.800,    490.000,    0 !   !END!  GR_M3775
DSC3832 ! X =   660.3000,   6084.800,    501.722,    0 !   !END!  GR_M3776
DSC3833 ! X =   660.8000,   6084.800,    479.619,    0 !   !END!  GR_M3777
DSC3834 ! X =   661.3000,   6084.800,    468.000,    0 !   !END!  GR_M3778
DSC3835 ! X =   661.8000,   6084.800,    468.000,    0 !   !END!  GR_M3779
DSC3836 ! X =   662.3000,   6084.800,    468.000,    0 !   !END!  GR_M3780
DSC3837 ! X =   662.8000,   6084.800,    468.000,    0 !   !END!  GR_M3781
DSC3838 ! X =   663.3000,   6084.800,    468.000,    0 !   !END!  GR_M3782
DSC3839 ! X =   651.3000,   6085.300,    485.645,    0 !   !END!  GR_M3783
DSC3840 ! X =   651.8000,   6085.300,    491.928,    0 !   !END!  GR_M3784
DSC3841 ! X =   652.3000,   6085.300,    507.186,    0 !   !END!  GR_M3785
DSC3842 ! X =   652.8000,   6085.300,    504.130,    0 !   !END!  GR_M3786
DSC3843 ! X =   653.3000,   6085.300,    486.000,    0 !   !END!  GR_M3787
DSC3844 ! X =   653.8000,   6085.300,    475.646,    0 !   !END!  GR_M3788
DSC3845 ! X =   654.3000,   6085.300,    476.730,    0 !   !END!  GR_M3789
DSC3846 ! X =   660.3000,   6085.300,    507.782,    0 !   !END!  GR_M3790
DSC3847 ! X =   660.8000,   6085.300,    468.000,    0 !   !END!  GR_M3791
DSC3848 ! X =   661.3000,   6085.300,    468.000,    0 !   !END!  GR_M3792
DSC3849 ! X =   661.8000,   6085.300,    468.000,    0 !   !END!  GR_M3793
DSC3850 ! X =   662.3000,   6085.300,    473.989,    0 !   !END!  GR_M3794
DSC3851 ! X =   662.8000,   6085.300,    469.499,    0 !   !END!  GR_M3795
DSC3852 ! X =   663.3000,   6085.300,    468.000,    0 !   !END!  GR_M3796
DSC3853 ! X =   651.3000,   6085.800,    501.197,    0 !   !END!  GR_M3797
DSC3854 ! X =   651.8000,   6085.800,    515.298,    0 !   !END!  GR_M3798
DSC3855 ! X =   652.3000,   6085.800,    525.425,    0 !   !END!  GR_M3799
DSC3856 ! X =   652.8000,   6085.800,    523.854,    0 !   !END!  GR_M3800
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DSC3857 ! X =   653.3000,   6085.800,    485.734,    0 !   !END!  GR_M3801
DSC3858 ! X =   653.8000,   6085.800,    468.000,    0 !   !END!  GR_M3802
DSC3859 ! X =   654.3000,   6085.800,    468.000,    0 !   !END!  GR_M3803
DSC3860 ! X =   660.3000,   6085.800,    468.000,    0 !   !END!  GR_M3804
DSC3861 ! X =   660.8000,   6085.800,    468.000,    0 !   !END!  GR_M3805
DSC3862 ! X =   661.3000,   6085.800,    469.000,    0 !   !END!  GR_M3806
DSC3863 ! X =   661.8000,   6085.800,    469.469,    0 !   !END!  GR_M3807
DSC3864 ! X =   662.3000,   6085.800,    468.000,    0 !   !END!  GR_M3808
DSC3865 ! X =   662.8000,   6085.800,    468.000,    0 !   !END!  GR_M3809
DSC3866 ! X =   663.3000,   6085.800,    468.000,    0 !   !END!  GR_M3810
DSC3867 ! X =   651.3000,   6086.300,    536.744,    0 !   !END!  GR_M3811
DSC3868 ! X =   651.8000,   6086.300,    547.009,    0 !   !END!  GR_M3812
DSC3869 ! X =   652.3000,   6086.300,    540.978,    0 !   !END!  GR_M3813
DSC3870 ! X =   652.8000,   6086.300,    508.026,    0 !   !END!  GR_M3814
DSC3871 ! X =   653.3000,   6086.300,    468.000,    0 !   !END!  GR_M3815
DSC3872 ! X =   653.8000,   6086.300,    468.000,    0 !   !END!  GR_M3816
DSC3873 ! X =   654.3000,   6086.300,    468.000,    0 !   !END!  GR_M3817
DSC3874 ! X =   660.3000,   6086.300,    468.000,    0 !   !END!  GR_M3818
DSC3875 ! X =   660.8000,   6086.300,    468.000,    0 !   !END!  GR_M3819
DSC3876 ! X =   661.3000,   6086.300,    473.986,    0 !   !END!  GR_M3820
DSC3877 ! X =   661.8000,   6086.300,    468.000,    0 !   !END!  GR_M3821
DSC3878 ! X =   662.3000,   6086.300,    468.000,    0 !   !END!  GR_M3822
DSC3879 ! X =   662.8000,   6086.300,    468.000,    0 !   !END!  GR_M3823
DSC3880 ! X =   663.3000,   6086.300,    468.000,    0 !   !END!  GR_M3824
DSC3881 ! X =   651.3000,   6086.800,    570.592,    0 !   !END!  GR_M3825
DSC3882 ! X =   651.8000,   6086.800,    545.541,    0 !   !END!  GR_M3826
DSC3883 ! X =   652.3000,   6086.800,    517.754,    0 !   !END!  GR_M3827
DSC3884 ! X =   652.8000,   6086.800,    495.309,    0 !   !END!  GR_M3828
DSC3885 ! X =   653.3000,   6086.800,    468.000,    0 !   !END!  GR_M3829
DSC3886 ! X =   653.8000,   6086.800,    468.000,    0 !   !END!  GR_M3830
DSC3887 ! X =   654.3000,   6086.800,    468.000,    0 !   !END!  GR_M3831
DSC3888 ! X =   660.3000,   6086.800,    468.000,    0 !   !END!  GR_M3832
DSC3889 ! X =   660.8000,   6086.800,    474.054,    0 !   !END!  GR_M3833
DSC3890 ! X =   661.3000,   6086.800,    468.000,    0 !   !END!  GR_M3834
DSC3891 ! X =   661.8000,   6086.800,    468.000,    0 !   !END!  GR_M3835
DSC3892 ! X =   662.3000,   6086.800,    468.000,    0 !   !END!  GR_M3836
DSC3893 ! X =   662.8000,   6086.800,    468.000,    0 !   !END!  GR_M3837
DSC3894 ! X =   663.3000,   6086.800,    468.000,    0 !   !END!  GR_M3838
DSC3895 ! X =   651.3000,   6087.300,    579.602,    0 !   !END!  GR_M3839
DSC3896 ! X =   651.8000,   6087.300,    527.745,    0 !   !END!  GR_M3840
DSC3897 ! X =   652.3000,   6087.300,    503.616,    0 !   !END!  GR_M3841
DSC3898 ! X =   652.8000,   6087.300,    468.013,    0 !   !END!  GR_M3842
DSC3899 ! X =   653.3000,   6087.300,    468.000,    0 !   !END!  GR_M3843
DSC3900 ! X =   653.8000,   6087.300,    468.000,    0 !   !END!  GR_M3844
DSC3901 ! X =   654.3000,   6087.300,    468.000,    0 !   !END!  GR_M3845
DSC3902 ! X =   654.8000,   6087.300,    468.000,    0 !   !END!  GR_M3846
DSC3903 ! X =   655.3000,   6087.300,    471.934,    0 !   !END!  GR_M3847
DSC3904 ! X =   660.3000,   6087.300,    486.355,    0 !   !END!  GR_M3848
DSC3905 ! X =   660.8000,   6087.300,    468.000,    0 !   !END!  GR_M3849
DSC3906 ! X =   661.3000,   6087.300,    468.000,    0 !   !END!  GR_M3850
DSC3907 ! X =   661.8000,   6087.300,    468.000,    0 !   !END!  GR_M3851
DSC3908 ! X =   662.3000,   6087.300,    468.000,    0 !   !END!  GR_M3852
DSC3909 ! X =   662.8000,   6087.300,    468.000,    0 !   !END!  GR_M3853
DSC3910 ! X =   663.3000,   6087.300,    468.000,    0 !   !END!  GR_M3854
DSC3911 ! X =   651.3000,   6087.800,    543.198,    0 !   !END!  GR_M3855
```

```
DSC3912 ! X =   651.8000,   6087.800,    502.242,    0 !   !END!  GR_M3856
DSC3913 ! X =   652.3000,   6087.800,    468.000,    0 !   !END!  GR_M3857
DSC3914 ! X =   652.8000,   6087.800,    468.000,    0 !   !END!  GR_M3858
DSC3915 ! X =   653.3000,   6087.800,    468.000,    0 !   !END!  GR_M3859
DSC3916 ! X =   653.8000,   6087.800,    474.000,    0 !   !END!  GR_M3860
DSC3917 ! X =   654.3000,   6087.800,    468.000,    0 !   !END!  GR_M3861
DSC3918 ! X =   654.8000,   6087.800,    468.000,    0 !   !END!  GR_M3862
DSC3919 ! X =   655.3000,   6087.800,    468.000,    0 !   !END!  GR_M3863
DSC3920 ! X =   660.3000,   6087.800,    468.000,    0 !   !END!  GR_M3864
DSC3921 ! X =   660.8000,   6087.800,    468.000,    0 !   !END!  GR_M3865
DSC3922 ! X =   661.3000,   6087.800,    468.000,    0 !   !END!  GR_M3866
DSC3923 ! X =   661.8000,   6087.800,    468.000,    0 !   !END!  GR_M3867
DSC3924 ! X =   662.3000,   6087.800,    468.000,    0 !   !END!  GR_M3868
DSC3925 ! X =   662.8000,   6087.800,    471.038,    0 !   !END!  GR_M3869
DSC3926 ! X =   663.3000,   6087.800,    468.000,    0 !   !END!  GR_M3870
DSC3927 ! X =   651.3000,   6088.300,    499.832,    0 !   !END!  GR_M3871
DSC3928 ! X =   651.8000,   6088.300,    468.000,    0 !   !END!  GR_M3872
DSC3929 ! X =   652.3000,   6088.300,    468.000,    0 !   !END!  GR_M3873
DSC3930 ! X =   652.8000,   6088.300,    486.498,    0 !   !END!  GR_M3874
DSC3931 ! X =   653.3000,   6088.300,    491.910,    0 !   !END!  GR_M3875
DSC3932 ! X =   653.8000,   6088.300,    468.000,    0 !   !END!  GR_M3876
DSC3933 ! X =   654.3000,   6088.300,    468.000,    0 !   !END!  GR_M3877
DSC3934 ! X =   654.8000,   6088.300,    468.000,    0 !   !END!  GR_M3878
DSC3935 ! X =   655.3000,   6088.300,    468.000,    0 !   !END!  GR_M3879
DSC3936 ! X =   660.3000,   6088.300,    470.938,    0 !   !END!  GR_M3880
DSC3937 ! X =   660.8000,   6088.300,    472.000,    0 !   !END!  GR_M3881
DSC3938 ! X =   661.3000,   6088.300,    468.000,    0 !   !END!  GR_M3882
DSC3939 ! X =   661.8000,   6088.300,    468.000,    0 !   !END!  GR_M3883
DSC3940 ! X =   662.3000,   6088.300,    468.000,    0 !   !END!  GR_M3884
DSC3941 ! X =   662.8000,   6088.300,    468.000,    0 !   !END!  GR_M3885
DSC3942 ! X =   663.3000,   6088.300,    468.000,    0 !   !END!  GR_M3886
DSC3943 ! X =   651.3000,   6088.800,    468.000,    0 !   !END!  GR_M3887
DSC3944 ! X =   651.8000,   6088.800,    468.000,    0 !   !END!  GR_M3888
DSC3945 ! X =   652.3000,   6088.800,    511.693,    0 !   !END!  GR_M3889
DSC3946 ! X =   652.8000,   6088.800,    503.847,    0 !   !END!  GR_M3890
DSC3947 ! X =   653.3000,   6088.800,    468.000,    0 !   !END!  GR_M3891
DSC3948 ! X =   653.8000,   6088.800,    468.000,    0 !   !END!  GR_M3892
DSC3949 ! X =   654.3000,   6088.800,    468.000,    0 !   !END!  GR_M3893
DSC3950 ! X =   654.8000,   6088.800,    468.000,    0 !   !END!  GR_M3894
DSC3951 ! X =   655.3000,   6088.800,    468.000,    0 !   !END!  GR_M3895
DSC3952 ! X =   660.3000,   6088.800,    506.028,    0 !   !END!  GR_M3896
DSC3953 ! X =   660.8000,   6088.800,    468.000,    0 !   !END!  GR_M3897
DSC3954 ! X =   661.3000,   6088.800,    468.000,    0 !   !END!  GR_M3898
DSC3955 ! X =   661.8000,   6088.800,    468.000,    0 !   !END!  GR_M3899
DSC3956 ! X =   662.3000,   6088.800,    468.000,    0 !   !END!  GR_M3900
DSC3957 ! X =   662.8000,   6088.800,    468.000,    0 !   !END!  GR_M3901
DSC3958 ! X =   663.3000,   6088.800,    468.000,    0 !   !END!  GR_M3902
DSC3959 ! X =   651.3000,   6089.300,    468.000,    0 !   !END!  GR_M3903
DSC3960 ! X =   651.8000,   6089.300,    505.472,    0 !   !END!  GR_M3904
DSC3961 ! X =   652.3000,   6089.300,    511.546,    0 !   !END!  GR_M3905
DSC3962 ! X =   652.8000,   6089.300,    484.988,    0 !   !END!  GR_M3906
DSC3963 ! X =   653.3000,   6089.300,    468.000,    0 !   !END!  GR_M3907
DSC3964 ! X =   653.8000,   6089.300,    468.000,    0 !   !END!  GR_M3908
DSC3965 ! X =   654.3000,   6089.300,    468.000,    0 !   !END!  GR_M3909
DSC3966 ! X =   654.8000,   6089.300,    468.000,    0 !   !END!  GR_M3910
```

```
DSC3967 ! X =   655.3000,   6089.300,    468.147,    0 !   !END!  GR_M3911
DSC3968 ! X =   660.3000,   6089.300,    471.704,    0 !   !END!  GR_M3912
DSC3969 ! X =   660.8000,   6089.300,    468.000,    0 !   !END!  GR_M3913
DSC3970 ! X =   661.3000,   6089.300,    468.000,    0 !   !END!  GR_M3914
DSC3971 ! X =   661.8000,   6089.300,    468.000,    0 !   !END!  GR_M3915
DSC3972 ! X =   662.3000,   6089.300,    468.000,    0 !   !END!  GR_M3916
DSC3973 ! X =   662.8000,   6089.300,    468.000,    0 !   !END!  GR_M3917
DSC3974 ! X =   663.3000,   6089.300,    468.976,    0 !   !END!  GR_M3918
DSC3975 ! X =   651.3000,   6089.800,    527.659,    0 !   !END!  GR_M3919
DSC3976 ! X =   651.8000,   6089.800,    514.141,    0 !   !END!  GR_M3920
DSC3977 ! X =   652.3000,   6089.800,    478.518,    0 !   !END!  GR_M3921
DSC3978 ! X =   652.8000,   6089.800,    468.000,    0 !   !END!  GR_M3922
DSC3979 ! X =   653.3000,   6089.800,    468.000,    0 !   !END!  GR_M3923
DSC3980 ! X =   653.8000,   6089.800,    468.000,    0 !   !END!  GR_M3924
DSC3981 ! X =   654.3000,   6089.800,    468.000,    0 !   !END!  GR_M3925
DSC3982 ! X =   654.8000,   6089.800,    468.000,    0 !   !END!  GR_M3926
DSC3983 ! X =   655.3000,   6089.800,    468.000,    0 !   !END!  GR_M3927
DSC3984 ! X =   660.3000,   6089.800,    468.000,    0 !   !END!  GR_M3928
DSC3985 ! X =   660.8000,   6089.800,    468.000,    0 !   !END!  GR_M3929
DSC3986 ! X =   661.3000,   6089.800,    468.000,    0 !   !END!  GR_M3930
DSC3987 ! X =   661.8000,   6089.800,    468.000,    0 !   !END!  GR_M3931
DSC3988 ! X =   662.3000,   6089.800,    468.000,    0 !   !END!  GR_M3932
DSC3989 ! X =   662.8000,   6089.800,    503.546,    0 !   !END!  GR_M3933
DSC3990 ! X =   663.3000,   6089.800,    468.000,    0 !   !END!  GR_M3934
DSC3991 ! X =   651.3000,   6090.300,    505.953,    0 !   !END!  GR_M3935
DSC3992 ! X =   651.8000,   6090.300,    478.696,    0 !   !END!  GR_M3936
DSC3993 ! X =   652.3000,   6090.300,    468.000,    0 !   !END!  GR_M3937
DSC3994 ! X =   652.8000,   6090.300,    468.000,    0 !   !END!  GR_M3938
DSC3995 ! X =   653.3000,   6090.300,    468.000,    0 !   !END!  GR_M3939
DSC3996 ! X =   653.8000,   6090.300,    468.000,    0 !   !END!  GR_M3940
DSC3997 ! X =   654.3000,   6090.300,    468.000,    0 !   !END!  GR_M3941
DSC3998 ! X =   654.8000,   6090.300,    468.000,    0 !   !END!  GR_M3942
DSC3999 ! X =   655.3000,   6090.300,    468.000,    0 !   !END!  GR_M3943
DSC4000 ! X =   655.8000,   6090.300,    468.000,    0 !   !END!  GR_M3944
DSC4001 ! X =   656.3000,   6090.300,    471.896,    0 !   !END!  GR_M3945
DSC4002 ! X =   656.8000,   6090.300,    472.000,    0 !   !END!  GR_M3946
DSC4003 ! X =   657.3000,   6090.300,    468.000,    0 !   !END!  GR_M3947
DSC4004 ! X =   657.8000,   6090.300,    468.000,    0 !   !END!  GR_M3948
DSC4005 ! X =   658.3000,   6090.300,    468.000,    0 !   !END!  GR_M3949
DSC4006 ! X =   658.8000,   6090.300,    469.763,    0 !   !END!  GR_M3950
DSC4007 ! X =   659.3000,   6090.300,    468.000,    0 !   !END!  GR_M3951
DSC4008 ! X =   659.8000,   6090.300,    468.000,    0 !   !END!  GR_M3952
DSC4009 ! X =   660.3000,   6090.300,    468.000,    0 !   !END!  GR_M3953
DSC4010 ! X =   660.8000,   6090.300,    468.000,    0 !   !END!  GR_M3954
DSC4011 ! X =   661.3000,   6090.300,    468.000,    0 !   !END!  GR_M3955
DSC4012 ! X =   661.8000,   6090.300,    468.000,    0 !   !END!  GR_M3956
DSC4013 ! X =   662.3000,   6090.300,    490.000,    0 !   !END!  GR_M3957
DSC4014 ! X =   662.8000,   6090.300,    470.226,    0 !   !END!  GR_M3958
DSC4015 ! X =   663.3000,   6090.300,    468.000,    0 !   !END!  GR_M3959
DSC4016 ! X =   651.3000,   6090.800,    492.995,    0 !   !END!  GR_M3960
DSC4017 ! X =   651.8000,   6090.800,    468.000,    0 !   !END!  GR_M3961
DSC4018 ! X =   652.3000,   6090.800,    468.000,    0 !   !END!  GR_M3962
DSC4019 ! X =   652.8000,   6090.800,    468.000,    0 !   !END!  GR_M3963
DSC4020 ! X =   653.3000,   6090.800,    468.000,    0 !   !END!  GR_M3964
DSC4021 ! X =   653.8000,   6090.800,    468.000,    0 !   !END!  GR_M3965
```

```
 DSC4022 ! X =   654.3000,   6090.800,    468.587,    0 !   !END!  GR_M3966
 DSC4023 ! X =   654.8000,   6090.800,    468.000,    0 !   !END!  GR_M3967
 DSC4024 ! X =   655.3000,   6090.800,    468.000,    0 !   !END!  GR_M3968
 DSC4025 ! X =   655.8000,   6090.800,    475.000,    0 !   !END!  GR_M3969
 DSC4026 ! X =   656.3000,   6090.800,    471.000,    0 !   !END!  GR_M3970
 DSC4027 ! X =   656.8000,   6090.800,    468.000,    0 !   !END!  GR_M3971
 DSC4028 ! X =   657.3000,   6090.800,    468.000,    0 !   !END!  GR_M3972
 DSC4029 ! X =   657.8000,   6090.800,    468.000,    0 !   !END!  GR_M3973
 DSC4030 ! X =   658.3000,   6090.800,    468.000,    0 !   !END!  GR_M3974
 DSC4031 ! X =   658.8000,   6090.800,    468.000,    0 !   !END!  GR_M3975
 DSC4032 ! X =   659.3000,   6090.800,    468.000,    0 !   !END!  GR_M3976
 DSC4033 ! X =   659.8000,   6090.800,    468.000,    0 !   !END!  GR_M3977
 DSC4034 ! X =   660.3000,   6090.800,    468.000,    0 !   !END!  GR_M3978
 DSC4035 ! X =   660.8000,   6090.800,    468.000,    0 !   !END!  GR_M3979
 DSC4036 ! X =   661.3000,   6090.800,    468.000,    0 !   !END!  GR_M3980
 DSC4037 ! X =   661.8000,   6090.800,    488.467,    0 !   !END!  GR_M3981
 DSC4038 ! X =   662.3000,   6090.800,    475.779,    0 !   !END!  GR_M3982
 DSC4039 ! X =   662.8000,   6090.800,    468.000,    0 !   !END!  GR_M3983
 DSC4040 ! X =   663.3000,   6090.800,    470.934,    0 !   !END!  GR_M3984
```

---

a

Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

b

Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.

APPENDIX C-4

CALPUFF INPUT (GASES) - RAIL YARD DOMAIN

```
CALPUFF.INP     2.0
Joyce Lake 121-18002-01
Rail yard domain (Rev1-2014) - gases

---------------- Run title (3 lines) ------------------------------------------

                    CALPUFF MODEL CONTROL FILE
                    --------------------------

--------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names

--------------
Default Name  Type          File Name
------------  ----          ---------
CALMET.DAT    input    * METDAT =             *
    or
ISCMET.DAT    input    * ISCDAT =             *
    or
PLMMET.DAT    input    * PLMDAT =             *
    or
PROFILE.DAT   input    * PRFDAT =             *
SURFACE.DAT   input    * SFCDAT =             *
RESTARTB.DAT  input    * RSTARTB=             *
--------------------------------------------------------------------------------
CALPUFF.LST   output   ! PUFLST =             !
CONC.DAT      output   ! CONDAT =             !
DFLX.DAT      output   ! DFDAT  =             !
WFLX.DAT      output   * WFDAT  =             *

VISB.DAT      output   * VISDAT =             *
TK2D.DAT      output   * T2DDAT =             *
RHO2D.DAT     output   * RHODAT =             *
RESTARTE.DAT  output   ! RSTARTE=             !
--------------------------------------------------------------------------------
Emission Files
--------------
PTEMARB.DAT   input    * PTDAT  =             *
VOLEMARB.DAT  input    * VOLDAT =             *
BAEMARB.DAT   input    * ARDAT  =             *
LNEMARB.DAT   input    * LNDAT  =             *
--------------------------------------------------------------------------------
Other Files
-----------
OZONE.DAT     input    * OZDAT  =             *
VD.DAT        input    * VDDAT  =             *
CHEM.DAT      input    * CHEMDAT=             *
AUX           input    * AUXEXT =             *
(Extension added to METDAT filename(s) for files
 with auxiliary 2D and 3D data)
H2O2.DAT      input    * H2O2DAT=             *
NH3Z.DAT      input    * NH3ZDAT=             *
HILL.DAT      input    * HILDAT=              *
HILLRCT.DAT   input    * RCTDAT=              *
```

```
COASTLN.DAT   input    * CSTDAT=              *
FLUXBDY.DAT   input    * BDYDAT=              *
BCON.DAT      input    * BCNDAT=              *
DEBUG.DAT     output   ! DEBUG =              !
MASSFLX.DAT   output   * FLXDAT=              *
MASSBAL.DAT   output   ! BALDAT=              !
FOG.DAT       output   * FOGDAT=              *
RISE.DAT      output   * RISDAT=              *
-------------------------------------------------------------------------------
All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = T !
         F = UPPER CASE
NOTE: (1) file/path names can be up to 132 characters in length


Provision for multiple input files
----------------------------------

     Number of Modeling Domains (NMETDOM)
                                    Default: 1       ! NMETDOM =  1  !

     Number of CALMET.DAT files for run (NMETDAT)
                                    Default: 1       ! NMETDAT =  2  !

     Number of PTEMARB.DAT files for run (NPTDAT)
                                    Default: 0       ! NPTDAT  = 265 !

     Number of BAEMARB.DAT files for run (NARDAT)
                                    Default: 0       ! NARDAT  =  0  !

     Number of VOLEMARB.DAT files for run (NVOLDAT)
                                    Default: 0       ! NVOLDAT =  0  !

!END!

-------------
Subgroup (0a)
-------------

  Provide a name for each CALMET domain if NMETDOM > 1
  Enter NMETDOM lines.
                                  a,b
Default Name             Domain Name
------------             ------------
 none                  * DOMAIN1=     *   *END*
 none                  * DOMAIN2=     *   *END*
 none                  * DOMAIN3=     *   *END*


  The following CALMET.DAT filenames are processed in sequence
  if NMETDAT > 1

  Enter NMETDAT lines, 1 line for each file name.
```

```
                                    a,c,d
Default Name  Type          File Name
------------  ----          ---------
! METDAT1 = C:\CALMET\CALMET01.DAT! !END!
! METDAT1 = C:\CALMET\CALMET02.DAT! !END!

-------------
    a
     The name for each CALMET domain and each CALMET.DAT file is treated
     as a separate input subgroup and therefore must end with an input
     group terminator.
    b
     Use DOMAIN1= to assign the name for the outermost CALMET domain.
     Use DOMAIN2= to assign the name for the next inner CALMET domain.
     Use DOMAIN3= to assign the name for the next inner CALMET domain, etc.
      ------------------------------------------------------------------
      |   When inner domains with equal resolution (grid-cell size)    |
      |   overlap, the data from the FIRST such domain in the list will |
      |   be used if all other criteria for choosing the controlling    |
      |   grid domain are inconclusive.                                 |
      ------------------------------------------------------------------
    c
     Use METDAT1= to assign the file names for the outermost CALMET domain.
     Use METDAT2= to assign the file names for the next inner CALMET domain.
     Use METDAT3= to assign the file names for the next inner CALMET domain, etc.
    d
     The filenames for each domain must be provided in sequential order

-------------
Subgroup (0b)
-------------

  The following PTEMARB.DAT filenames are processed if NPTDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       ! PTDAT=efely01_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=efely02_multispecies_XXXX.hrl!    !END!
 none         input       ! PTDAT=loco1_multispecies_XXXX.hrl!      !END!
 none         input       ! PTDAT=loco2_multispecies_XXXX.hrl!      !END!
 none         input       ! PTDAT=loco3_multispecies_XXXX.hrl!      !END!
 none         input       ! PTDAT=hlg0428e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0429e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0430e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0431e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0432e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0433e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0434e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0435e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0436e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0437e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0438e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0439e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg0440e_multispecies_XXXX.hrl!   !END!
```

```
none          input       ! PTDAT=hlg0441e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0442e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0443e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0444e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0445e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0446e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0447e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0448e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0449e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0450e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0451e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0452e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0453e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0454e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0455e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0456e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0457e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0458e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0459e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0460e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0461e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0462e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0463e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0468e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0469e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0470e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0471e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0472e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0473e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0474e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0476e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0576e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0579e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0581e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0582e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0583e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0584e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0586e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0592e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0593e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0611e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0612e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0613e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0614e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0615e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0616e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0617e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0618e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0619e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0620e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0621e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0622e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0623e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0625e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0629e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0631e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0633e_multispecies_XXXX.hrl!   !END!
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none          input       ! PTDAT=hlg0637e_multispecies_XXXX.hrl!   !END!
none          input       ! PTDAT=hlg0638e_multispecies_XXXX.hrl!   !END!
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 none         input       ! PTDAT=hlg1245e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg1246e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg1247e_multispecies_XXXX.hrl!   !END!
 none         input       ! PTDAT=hlg1248e_multispecies_XXXX.hrl!   !END!

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Subgroup (0c)
-------------

  The following BAEMARB.DAT filenames are processed if NARDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       * ARDAT=     *   *END*

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Subgroup (0d)
-------------

  The following VOLEMARB.DAT filenames are processed if NVOLDAT>0
  (Each file contains a subset of the sources, for the entire simulation)

Default Name  Type          File Name
------------  ----          ---------
 none         input       * VOLDAT=     *   *END*

------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
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Option to run all periods found
in the met. file     (METRUN)   Default: 0       ! METRUN =   0  !

     METRUN = 0 - Run period explicitly defined below
     METRUN = 1 - Run all periods in met. file

 Starting date:    Year   (IBYR)  --    No default   ! IBYR  =  XXXX !
                   Month  (IBMO)  --    No default   ! IBMO  =  XX   !
                   Day    (IBDY)  --    No default   ! IBDY  =  XX   !
 Starting time:    Hour   (IBHR)  --    No default   ! IBHR  =  0    !
                   Minute (IBMIN) --    No default   ! IBMIN =  0    !
                   Second (IBSEC) --    No default   ! IBSEC =  0    !

 Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  XXXX !
                   Month  (IEMO)  --    No default   ! IEMO  =  XX   !
                   Day    (IEDY)  --    No default   ! IEDY  =  XX   !
 Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0    !
                   Minute (IEMIN) --    No default   ! IEMIN =  0    !
                   Second (IESEC) --    No default   ! IESEC =  0    !

 (These are only used if METRUN = 0)

 Base time zone:          (ABTZ)  --    No default   ! ABTZ= UTC-0500 !
  (character*8)
 The modeling domain may span multiple time zones.  ABTZ defines the
 base time zone used for the entire simulation.  This must match the
 base time zone of the meteorological data.
 Examples:
     Los Angeles, USA          = UTC-0800
     New York, USA             = UTC-0500
     Santiago, Chile           = UTC-0400
     Greenwich Mean Time (GMT) = UTC+0000
     Rome, Italy               = UTC+0100
     Cape Town, S.Africa       = UTC+0200
     Sydney, Australia         = UTC+1000

 Length of modeling time-step (seconds)
 Equal to update period in the primary
 meteorological data files, or an
 integer fraction of it (1/2, 1/3 ...)
 Must be no larger than 1 hour
 (NSECDT)                        Default:3600     ! NSECDT =  3600  !
                                 Units: seconds

 Number of chemical species (NSPEC)
                                 Default: 5       ! NSPEC =  7   !

 Number of chemical species
 to be emitted  (NSE)            Default: 3       ! NSE   =  4   !

 Flag to stop run after
 SETUP phase (ITEST)             Default: 2       ! ITEST =  2   !
 (Used to allow checking
 of the model inputs, files, etc.)
       ITEST = 1 - STOPS program after SETUP phase
```

```
      ITEST = 2 - Continues with execution of program
                  after SETUP

Restart Configuration:

   Control flag (MRESTART)      Default: 0       ! MRESTART =  0  !

      0 = Do not read or write a restart file
      1 = Read a restart file at the beginning of
          the run
      2 = Write a restart file during run
      3 = Read a restart file at beginning of run
          and write a restart file during run

   Number of periods in Restart
   output cycle (NRESPD)        Default: 0       ! NRESPD =  0  !

      0 = File written only at last period
     >0 = File updated every NRESPD periods

Meteorological Data Format (METFM)
                                Default: 1       ! METFM  =  1  !

      METFM = 1 - CALMET binary file (CALMET.MET)
      METFM = 2 - ISC ASCII file (ISCMET.MET)
      METFM = 3 - AUSPLUME ASCII file (PLMMET.MET)
      METFM = 4 - CTDM plus tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)
      METFM = 5 - AERMET tower file (PROFILE.DAT) and
                  surface parameters file (SURFACE.DAT)

Meteorological Profile Data Format (MPRFFM)
       (used only for METFM = 1, 2, 3)
                                Default: 1       ! MPRFFM =  1  !

      MPRFFM = 1 - CTDM plus tower file (PROFILE.DAT)
      MPRFFM = 2 - AERMET tower file (PROFILE.DAT)

PG sigma-y is adjusted by the factor (AVET/PGTIME)**0.2
Averaging Time (minutes) (AVET)
                                Default: 60.0    ! AVET   = 60. !
PG Averaging Time (minutes) (PGTIME)
                                Default: 60.0    ! PGTIME = 60. !


Output units for binary concentration and flux files
written in Dataset v2.2 or later formats
(IOUTU)                         Default: 1       ! IOUTU  =  1  !
    1 = mass      -  g/m3 (conc) or g/m2/s (dep)
    2 = odour     -  odour_units (conc)
    3 = radiation -  Bq/m3 (conc) or Bq/m2/s (dep)


Output Dataset format for binary concentration
and flux files (e.g., CONC.DAT)
```

```
     (IOVERS)                          Default: 2       ! IOVERS =  2  !
         1 = Dataset Version 2.1
         2 = Dataset Version 2.2


!END!


------------------------------------------------------------------------------

INPUT GROUP: 2 -- Technical options
--------------


     Vertical distribution used in the
     near field (MGAUSS)                   Default: 1     ! MGAUSS =  1  !
        0 = uniform
        1 = Gaussian

     Terrain adjustment method
     (MCTADJ)                              Default: 3     ! MCTADJ =  3  !
        0 = no adjustment
        1 = ISC-type of terrain adjustment
        2 = simple, CALPUFF-type of terrain
            adjustment
        3 = partial plume path adjustment

     Subgrid-scale complex terrain
     flag (MCTSG)                          Default: 0     ! MCTSG  =  0  !
        0 = not modeled
        1 = modeled

     Near-field puffs modeled as
     elongated slugs? (MSLUG)              Default: 0     ! MSLUG  =  0  !
        0 = no
        1 = yes (slug model used)

     Transitional plume rise modeled?
     (MTRANS)                              Default: 1     ! MTRANS =  1  !
        0 = no  (i.e., final rise only)
        1 = yes (i.e., transitional rise computed)

     Stack tip downwash? (MTIP)            Default: 1     ! MTIP   =  1  !
        0 = no  (i.e., no stack tip downwash)
        1 = yes (i.e., use stack tip downwash)

     Method used to compute plume rise for
     point sources not subject to building
     downwash? (MRISE)                     Default: 1     ! MRISE  =  1  !
        1 = Briggs plume rise
        2 = Numerical plume rise

     Method used to simulate building
     downwash? (MBDW)                      Default: 1     ! MBDW   =  2  !
        1 = ISC method
```

```
   2 = PRIME method

Vertical wind shear modeled above
stack top (modified Briggs plume rise)?
(MSHEAR)                              Default: 0     ! MSHEAR =  0  !
   0 = no  (i.e., vertical wind shear not modeled)
   1 = yes (i.e., vertical wind shear modeled)

Puff splitting allowed? (MSPLIT)      Default: 0     ! MSPLIT =  1  !
   0 = no (i.e., puffs not split)
   1 = yes (i.e., puffs are split)

Chemical mechanism flag (MCHEM)       Default: 1     ! MCHEM  =  6  !
   0 = chemical transformation not
       modeled
   1 = transformation rates computed
       internally (MESOPUFF II scheme)
   2 = user-specified transformation
       rates used
   3 = transformation rates computed
       internally (RIVAD/ARM3 scheme)
   4 = secondary organic aerosol formation
       computed (MESOPUFF II scheme for OH)
   5 = user-specified half-life with or
       without transfer to child species
   6 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium)
   7 = transformation rates computed
       internally (Updated RIVAD scheme with
       ISORROPIA equilibrium and CalTech SOA)

Aqueous phase transformation flag (MAQCHEM)
(Used only if MCHEM = 6, or 7)        Default: 0     ! MAQCHEM = 1  !
   0 = aqueous phase transformation
       not modeled
   1 = transformation rates and wet
       scavenging coefficients adjusted
       for in-cloud aqueous phase reactions
       (adapted from RADM cloud model
        implementation in CMAQ/SCICHEM)

Liquid Water Content flag (MLWC)
(Used only if MAQCHEM = 1)            Default: 1     ! MLWC   =  0  !
   0 = water content estimated from cloud cover
       and presence of precipitation
   1 = gridded cloud water data read from CALMET
       water content output files (filenames are
       the CALMET.DAT names PLUS the extension
       AUXEXT provided in Input Group 0)

Wet removal modeled ? (MWET)          Default: 1     ! MWET   =  0  !
   0 = no
   1 = yes
```

```
Dry deposition modeled ? (MDRY)       Default: 1     ! MDRY   =  1  !
   0 = no
   1 = yes
   (dry deposition method specified
    for each species in Input Group 3)


Gravitational settling (plume tilt)
modeled ? (MTILT)                     Default: 0     ! MTILT  =  0  !
   0 = no
   1 = yes
   (puff center falls at the gravitational
    settling velocity for 1 particle species)

Restrictions:
    - MDRY  = 1
    - NSPEC = 1  (must be particle species as well)
    - sg    = 0  GEOMETRIC STANDARD DEVIATION in Group 8 is
                 set to zero for a single particle diameter

Method used to compute dispersion
coefficients (MDISP)                  Default: 3     ! MDISP  =  2  !

   1 = dispersion coefficients computed from measured values
       of turbulence, sigma v, sigma w
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.
   5 = CTDM sigmas used for stable and neutral conditions.
       For unstable conditions, sigmas are computed as in
       MDISP = 3, described above.  MDISP = 5 assumes that
       measured values are read

Sigma-v/sigma-theta, sigma-w measurements used? (MTURBVW)
(Used only if MDISP = 1 or 5)         Default: 3     ! MTURBVW =  3  !
   1 = use sigma-v or sigma-theta measurements
       from PROFILE.DAT to compute sigma-y
       (valid for METFM = 1, 2, 3, 4, 5)
   2 = use sigma-w measurements
       from PROFILE.DAT to compute sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   3 = use both sigma-(v/theta) and sigma-w
       from PROFILE.DAT to compute sigma-y and sigma-z
       (valid for METFM = 1, 2, 3, 4, 5)
   4 = use sigma-theta measurements
       from PLMMET.DAT to compute sigma-y
       (valid only if METFM = 3)

Back-up method used to compute dispersion
when measured turbulence data are
```

```
missing (MDISP2)                      Default: 3     ! MDISP2 =  3  !
(used only if MDISP = 1 or 5)
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.

[DIAGNOSTIC FEATURE]
Method used for Lagrangian timescale for Sigma-y
(used only if MDISP=1,2 or MDISP2=1,2)
(MTAULY)                              Default: 0     ! MTAULY =  0  !
   0 = Draxler default 617.284 (s)
   1 = Computed as Lag. Length / (.75 q) -- after SCIPUFF
  10 < Direct user input (s)             -- e.g., 306.9


[DIAGNOSTIC FEATURE]
Method used for Advective-Decay timescale for Turbulence
(used only if MDISP=2 or MDISP2=2)
(MTAUADV)                             Default: 0     ! MTAUADV = 0  !
   0 = No turbulence advection
   1 = Computed (OPTION NOT IMPLEMENTED)
  10 < Direct user input (s)   -- e.g., 800


Method used to compute turbulence sigma-v &
sigma-w using micrometeorological variables
(Used only if MDISP = 2 or MDISP2 = 2)
(MCTURB)                              Default: 1     ! MCTURB =  1  !
   1 = Standard CALPUFF subroutines
   2 = AERMOD subroutines

PG sigma-y,z adj. for roughness?      Default: 0     ! MROUGH =  0  !
(MROUGH)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTL =  1  !
elevated inversion modeled for
point sources?
(MPARTL)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTLBA = 1 !
elevated inversion modeled for
buoyant area sources?
(MPARTLBA)
   0 = no
   1 = yes
```

```
Strength of temperature inversion     Default: 0     ! MTINV  =  0  !
provided in PROFILE.DAT extended records?
(MTINV)
   0 = no (computed from measured/default gradients)
   1 = yes

PDF used for dispersion under convective conditions?
                                      Default: 0     ! MPDF   =  1  !
(MPDF)
   0 = no
   1 = yes

Sub-Grid TIBL module used for shore line?
                                      Default: 0     ! MSGTIBL = 0  !
(MSGTIBL)
   0 = no
   1 = yes

Boundary conditions (concentration) modeled?
                                      Default: 0     ! MBCON  =  0  !
(MBCON)
   0 = no
   1 = yes, using formatted BCON.DAT file
   2 = yes, using unformatted CONC.DAT file

Note:  MBCON > 0 requires that the last species modeled
       be 'BCON'.  Mass is placed in species BCON when
       generating boundary condition puffs so that clean
       air entering the modeling domain can be simulated
       in the same way as polluted air.  Specify zero
       emission of species BCON for all regular sources.

Individual source contributions saved?
                                      Default: 0     ! MSOURCE = 0  !
(MSOURCE)
   0 = no
   1 = yes


Analyses of fogging and icing impacts due to emissions from
arrays of mechanically-forced cooling towers can be performed
using CALPUFF in conjunction with a cooling tower emissions
processor (CTEMISS) and its associated postprocessors.  Hourly
emissions of water vapor and temperature from each cooling tower
cell are computed for the current cell configuration and ambient
conditions by CTEMISS. CALPUFF models the dispersion of these
emissions and provides cloud information in a specialized format
for further analysis. Output to FOG.DAT is provided in either
'plume mode' or 'receptor mode' format.

Configure for FOG Model output?
                                      Default: 0     ! MFOG   =  0  !
(MFOG)
   0 = no
   1 = yes  - report results in PLUME Mode format
```

```
        2 = yes  - report results in RECEPTOR Mode format


     Test options specified to see if
     they conform to regulatory
     values? (MREG)                        Default: 1     ! MREG   =  0  !

        0 = NO checks are made
        1 = Technical options must conform to USEPA
            Long Range Transport (LRT) guidance
                       METFM    1 or 2
                       AVET     60. (min)
                       PGTIME   60. (min)
                       MGAUSS   1
                       MCTADJ   3
                       MTRANS   1
                       MTIP     1
                       MRISE    1
                       MCHEM    1 or 3 (if modeling SOx, NOx)
                       MWET     1
                       MDRY     1
                       MDISP    2 or 3
                       MPDF     0 if MDISP=3
                                1 if MDISP=2
                       MROUGH   0
                       MPARTL   1
                       MPARTLBA 0
                       SYTDEP   550. (m)
                       MHFTSZ   0
                       SVMIN    0.5 (m/s)


!END!


-------------------------------------------------------------------------------

INPUT GROUP: 3a, 3b -- Species list
-------------------

------------
Subgroup (3a)
------------

  The following species are modeled:

! CSPEC     = SO2  ! !END!
! CSPEC     = SO4  ! !END!
! CSPEC     = NO   ! !END!
! CSPEC     = NO2  ! !END!
! CSPEC     = HNO3 ! !END!
! CSPEC     = NO3  ! !END!
! CSPEC     = DIOX ! !END!
```

```
    SPECIES          MODELED          EMITTED       DEPOSITED                NUMBER
     NAME         (0=NO, 1=YES)    (0=NO, 1=YES)    (0=NO,                 (0=NONE,
   (Limit: 12                                         1=COMPUTED-GAS        1=1st CGRUP,
    Characters                                        2=COMPUTED-PARTICLE   2=2nd CGRUP,
    in length)                                        3=USER-SPECIFIED)     3= etc.)

!     SO2 =            1,               1,               1,                  0  !
!     SO4 =            1,               0,               2,                  0  !
!      NO =            1,               1,               1,                  0  !
!     NO2 =            1,               1,               1,                  0  !
!    HNO3 =            1,               0,               1,                  0  !
!     NO3 =            1,               0,               2,                  0  !
!    DIOX =            1,               1,               0,                  0  !
!END!
```

Note: The last species in (3a) must be 'BCON' when using the boundary condition option (MBCON > 0). Species BCON should typically be modeled as inert (no chem transformation or removal).

Subgroup (3b)

The following names are used for Species-Groups in which results for certain species are combined (added) prior to output. The CGRUP name will be used as the species name in output files. Use this feature to model specific particle-size distributions by treating each size-range as a separate species. Order must be consistent with 3(a) above.

INPUT GROUP: 4 -- Map Projection and Grid control parameters

Projection for all (X,Y):

Map projection
(PMAP) Default: UTM ! PMAP = UTM !

- UTM : Universal Transverse Mercator
- TTM : Tangential Transverse Mercator
- LCC : Lambert Conformal Conic
- PS : Polar Stereographic
- EM : Equatorial Mercator
- LAZA : Lambert Azimuthal Equal Area

False Easting and Northing (km) at the projection origin
(Used only if PMAP= TTM, LCC, or LAZA)
(FEAST) Default=0.0 ! FEAST = 0.000 !
(FNORTH) Default=0.0 ! FNORTH = 0.000 !

```
UTM zone (1 to 60)
(Used only if PMAP=UTM)
(IUTMZN)                    No Default      ! IUTMZN =  19 !

Hemisphere for UTM projection?
(Used only if PMAP=UTM)
(UTMHEM)                    Default: N      ! UTMHEM =   N !
    N   :  Northern hemisphere projection
    S   :  Southern hemisphere projection

Latitude and Longitude (decimal degrees) of projection origin
(Used only if PMAP= TTM, LCC, PS, EM, or LAZA)
(RLAT0)                     No Default      * RLAT0 = 0N  *
(RLON0)                     No Default      * RLON0 = 0E  *

    TTM :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    LCC :  RLON0 identifies central (true N/S) meridian of projection
           RLAT0 selected for convenience
    PS  :  RLON0 identifies central (grid N/S) meridian of projection
           RLAT0 selected for convenience
    EM  :  RLON0 identifies central meridian of projection
           RLAT0 is REPLACED by 0.0N (Equator)
    LAZA:  RLON0 identifies longitude of tangent-point of mapping plane
           RLAT0 identifies latitude of tangent-point of mapping plane

Matching parallel(s) of latitude (decimal degrees) for projection
(Used only if PMAP= LCC or PS)
(XLAT1)                     No Default      * XLAT1 = 0N  *
(XLAT2)                     No Default      * XLAT2 = 0N  *

    LCC :  Projection cone slices through Earth's surface at XLAT1 and XLAT2
    PS  :  Projection plane slices through Earth at XLAT1
           (XLAT2 is not used)

----------
Note:  Latitudes and longitudes should be positive, and include a
       letter N,S,E, or W indicating north or south latitude, and
       east or west longitude.  For example,
       35.9  N Latitude  =  35.9N
       118.7 E Longitude = 118.7E
```

Datum-region

The Datum-Region for the coordinates is identified by a character string. Many mapping products currently available use the model of the Earth known as the World Geodetic System 1984 (WGS-84). Other local models may be in use, and their selection in CALMET will make its output consistent with local mapping products. The list of Datum-Regions with official transformation parameters is provided by the National Imagery and Mapping Agency (NIMA).

NIMA Datum - Regions(Examples)

```
     ------------------------------------------------------------------------
     WGS-84    WGS-84 Reference Ellipsoid and Geoid, Global coverage (WGS84)
     NAS-C     NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN FOR CONUS (NAD27)
     NAR-C     NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR CONUS (NAD83)
     NWS-84    NWS 6370KM Radius, Sphere
     ESR-S     ESRI REFERENCE 6371KM Radius, Sphere

     Datum-region for output coordinates
     (DATUM)                    Default: WGS-84    ! DATUM = NAR-B  !


METEOROLOGICAL Grid:

     Rectangular grid defined for projection PMAP,
     with X the Easting and Y the Northing coordinate

            No. X grid cells (NX)      No default     ! NX =   80    !
            No. Y grid cells (NY)      No default     ! NY =   90    !
         No. vertical layers (NZ)      No default     ! NZ =   10    !

           Grid spacing (DGRIDKM)      No default     ! DGRIDKM = .1 !
                                       Units: km

                Cell face heights
                    (ZFACE(nz+1))      No defaults
                                       Units: m
   ! ZFACE = .0, 20.0, 40.0, 80.0, 160.0, 300.0, 600.0, 1000.0, 1500.0, 2000.0, 2500.0 !

            Reference Coordinates
           of SOUTHWEST corner of
                grid cell(1, 1):

            X coordinate (XORIGKM)     No default     ! XORIGKM =  647.700 !
            Y coordinate (YORIGKM)     No default     ! YORIGKM = 6054.500 !
                                      Units: km


COMPUTATIONAL Grid:

     The computational grid is identical to or a subset of the MET. grid.
     The lower left (LL) corner of the computational grid is at grid point
     (IBCOMP, JBCOMP) of the MET. grid.  The upper right (UR) corner of the
     computational grid is at grid point (IECOMP, JECOMP) of the MET. grid.
     The grid spacing of the computational grid is the same as the MET. grid.

        X index of LL corner (IBCOMP)      No default     ! IBCOMP =   1  !
                  (1 <= IBCOMP <= NX)

        Y index of LL corner (JBCOMP)      No default     ! JBCOMP =   1  !
                  (1 <= JBCOMP <= NY)


        X index of UR corner (IECOMP)      No default     ! IECOMP =  80  !
                  (1 <= IECOMP <= NX)
```

```
        Y index of UR corner (JECOMP)      No default     ! JECOMP =  90  !
                  (1 <= JECOMP <= NY)


SAMPLING Grid (GRIDDED RECEPTORS):

     The lower left (LL) corner of the sampling grid is at grid point
     (IBSAMP, JBSAMP) of the MET. grid.  The upper right (UR) corner of the
     sampling grid is at grid point (IESAMP, JESAMP) of the MET. grid.
     The sampling grid must be identical to or a subset of the computational
     grid.  It may be a nested grid inside the computational grid.
     The grid spacing of the sampling grid is DGRIDKM/MESHDN.

        Logical flag indicating if gridded
        receptors are used (LSAMP)         Default: T     ! LSAMP  =  F  !
        (T=yes, F=no)

        X index of LL corner (IBSAMP)      No default     ! IBSAMP =  0  !
         (IBCOMP <= IBSAMP <= IECOMP)

        Y index of LL corner (JBSAMP)      No default     ! JBSAMP =  0  !
         (JBCOMP <= JBSAMP <= JECOMP)


        X index of UR corner (IESAMP)      No default     ! IESAMP =  0  !
         (IBCOMP <= IESAMP <= IECOMP)

        Y index of UR corner (JESAMP)      No default     ! JESAMP =  0  !
         (JBCOMP <= JESAMP <= JECOMP)


       Nesting factor of the sampling
        grid (MESHDN)                      Default: 1     ! MESHDN =  1  !
        (MESHDN is an integer >= 1)

!END!


--------------------------------------------------------------------------------


INPUT GROUP: 5 -- Output Options
--------------
                                          *                          *
     FILE                       DEFAULT VALUE             VALUE THIS RUN
     ----                       -------------             --------------

   Concentrations (ICON)              1                  !  ICON  =  1  !
   Dry Fluxes (IDRY)                  1                  !  IDRY  =  0  !
   Wet Fluxes (IWET)                  1                  !  IWET  =  0  !
   2D Temperature (IT2D)              0                  !  IT2D  =  0  !
   2D Density (IRHO)                  0                  !  IRHO  =  0  !
   Relative Humidity (IVIS)           1                  !  IVIS  =  0  !
    (relative humidity file is
```

```
  required for visibility
  analysis)
Use data compression option in output file?
(LCOMPRS)                          Default: T         ! LCOMPRS = T  !

*
 0 = Do not create file, 1 = create file


 QA PLOT FILE OUTPUT OPTION:

    Create a standard series of output files (e.g.
    locations of sources, receptors, grids ...)
    suitable for plotting?
    (IQAPLOT)                      Default: 1         ! IQAPLOT = 0  !
      0 = no
      1 = yes

 DIAGNOSTIC PUFF-TRACKING OUTPUT OPTION:

    Puff locations and properties reported to
    PFTRAK.DAT file for postprocessing?
    (IPFTRAK)                      Default: 0         ! IPFTRAK = 0  !
      0 = no
      1 = yes, update puff output at end of each timestep
      2 = yes, update puff output at end of each sampling step

 DIAGNOSTIC MASS FLUX OUTPUT OPTIONS:

    Mass flux across specified boundaries
    for selected species reported?
    (IMFLX)                        Default: 0         ! IMFLX  =  0  !
      0 = no
      1 = yes (FLUXBDY.DAT and MASSFLX.DAT filenames
               are specified in Input Group 0)

    Mass balance for each species
    reported?
    (IMBAL)                        Default: 0         ! IMBAL  =  1  !
      0 = no
      1 = yes (MASSBAL.DAT filename is
           specified in Input Group 0)


 NUMERICAL RISE OUTPUT OPTION:

    Create a file with plume properties for each rise
    increment, for each model timestep?
    This applies to sources modeled with numerical rise
    and is limited to ONE source in the run.
    (INRISE)                       Default: 0         ! INRISE =  0  !
      0 = no
      1 = yes (RISE.DAT filename is
               specified in Input Group 0)
```

```
 LINE PRINTER OUTPUT OPTIONS:

    Print concentrations (ICPRT)    Default: 0         ! ICPRT  =  0  !
    Print dry fluxes (IDPRT)        Default: 0         ! IDPRT  =  0  !
    Print wet fluxes (IWPRT)        Default: 0         ! IWPRT  =  0  !
    (0 = Do not print, 1 = Print)

    Concentration print interval
    (ICFRQ) in timesteps            Default: 1         ! ICFRQ  =  1  !
    Dry flux print interval
    (IDFRQ) in timesteps            Default: 1         ! IDFRQ  =  1  !
    Wet flux print interval
    (IWFRQ) in timesteps            Default: 1         ! IWFRQ  =  1  !

    Units for Line Printer Output
    (IPRTU)                         Default: 1         ! IPRTU  =  3  !
                    for             for
                Concentration    Deposition
        1 =        g/m**3          g/m**2/s
        2 =       mg/m**3         mg/m**2/s
        3 =       ug/m**3         ug/m**2/s
        4 =       ng/m**3         ng/m**2/s
        5 =     Odour Units

    Messages tracking progress of run
    written to the screen ?
    (IMESG)                         Default: 2         ! IMESG  =  2  !
      0 = no
      1 = yes (advection step, puff ID)
      2 = yes (YYYYJJJHH, # old puffs, # emitted puffs)


  SPECIES (or GROUP for combined species) LIST FOR OUTPUT OPTIONS

                ---- CONCENTRATIONS ----   ------ DRY FLUXES ------   ------ WET FLUXES
                ------   -- MASS FLUX --
  SPECIES
  /GROUP        PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON DISK?   PRINTED?  SAVED ON
  DISK?   SAVED ON DISK?
  -------       ------------------------   ------------------------
  ------------------------   ---------------

!         SO2 =    0,           1,            0,           1,            0,
0,               0   !
!         SO4 =    0,           1,            0,           1,            0,
0,               0   !
!          NO =    0,           1,            0,           1,            0,
0,               0   !
!         NO2 =    0,           1,            0,           1,            0,
0,               0   !
!        HNO3 =    0,           1,            0,           1,            0,
0,               0   !
!         NO3 =    0,           1,            0,           1,            0,
0,               0   !
!        DIOX =    1,           1,            0,           0,            0,
```

```
0,               0   !

  Note:  Species BCON (for MBCON > 0) does not need to be saved on disk.


     OPTIONS FOR PRINTING "DEBUG" QUANTITIES (much output)

       Logical for debug output
       (LDEBUG)                                Default: F     ! LDEBUG =  F  !

       First puff to track
       (IPFDEB)                                Default: 1     ! IPFDEB =  1  !

       Number of puffs to track
       (NPFDEB)                                Default: 1     ! NPFDEB =  1  !

       Met. period to start output
       (NN1)                                   Default: 1     ! NN1 =     1  !

       Met. period to end output
       (NN2)                                   Default: 10    ! NN2 =    10  !

!END!


------------------------------------------------------------------------------


INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs
-------------------------

---------------
Subgroup (6a)
---------------
       Number of terrain features (NHILL)      Default: 0     ! NHILL  =  0  !

       Number of special complex terrain
       receptors  (NCTREC)                     Default: 0     ! NCTREC =  0  !

       Terrain and CTSG Receptor data for
       CTSG hills input in CTDM format ?
       (MHILL)                                 No Default     ! MHILL  =  2  !
       1 = Hill and Receptor data created
           by CTDM processors & read from
           HILL.DAT and HILLRCT.DAT files
       2 = Hill data created by OPTHILL &
           input below in Subgroup (6b);
           Receptor data in Subgroup (6c)

       Factor to convert horizontal dimensions  Default: 1.0   ! XHILL2M = 1.0 !
       to meters (MHILL=1)

       Factor to convert vertical dimensions    Default: 1.0   ! ZHILL2M = 1.0 !
       to meters (MHILL=1)
```

X-origin of CTDM system relative to CALPUFF coordinate system, in Kilometers (MHILL=1) No Default ! XCTDMKM = 0 !

Y-origin of CTDM system relative to CALPUFF coordinate system, in Kilometers (MHILL=1) No Default ! YCTDMKM = 0 !

! END !

Subgroup (6b)

---

1 **

HILL information

HILL NO.	XC (km)	YC (km)	THETAH (deg.)	ZGRID (m)	RELIEF (m)	EXPO 1 (m)	EXPO 2 (m)	SCALE 1 (m)	SCALE 2 (m)	AMAX1 (m)	AMAX2 (m)

Subgroup (6c)

COMPLEX TERRAIN RECEPTOR INFORMATION

XRCT (km)	YRCT (km)	ZRCT (m)	XHH

1

Description of Complex Terrain Variables:

XC, YC = Coordinates of center of hill

THETAH = Orientation of major axis of hill (clockwise from North)

ZGRID = Height of the 0 of the grid above mean sea level

RELIEF = Height of the crest of the hill above the grid elevation

EXPO 1 = Hill-shape exponent for the major axis

EXPO 2 = Hill-shape exponent for the major axis

SCALE 1 = Horizontal length scale along the major axis

SCALE 2 = Horizontal length scale along the minor axis

AMAX = Maximum allowed axis length for the major axis

BMAX = Maximum allowed axis length for the major axis

XRCT, YRCT = Coordinates of the complex terrain receptors

ZRCT = Height of the ground (MSL) at the complex terrain Receptor

XHH = Hill number associated with each complex terrain receptor (NOTE: MUST BE ENTERED AS A REAL NUMBER)

```
   **
     NOTE: DATA for each hill and CTSG receptor are treated as a separate
           input subgroup and therefore must end with an input group terminator.

-------------------------------------------------------------------------------


INPUT GROUP: 7 -- Chemical parameters for dry deposition of gases
--------------

      SPECIES     DIFFUSIVITY      ALPHA STAR      REACTIVITY    MESOPHYLL RESISTANCE
      HENRY'S LAW COEFFICIENT
       NAME        (cm**2/s)                                          (s/cm)
       (dimensionless)
      -------     -----------      ----------      ----------    --------------------
      ------------------------
      ! SO2   =     0.1509,           1.0E3,           8.0,
      0.0,                        0.04   !  *SO2 default values
      ! NO    =     0.1656,            1.00,           8.0,
      5.0,                        3.50   !  *NOX default values
      ! NO2   =     0.1656,            1.00,           8.0,
      5.0,                        3.50   !  *NOX default values
      ! HNO3  =     0.1628,            1.00,          18.0,
      0.0,                     8.0E-8   !  *HNO3 default values
!END!

-------------------------------------------------------------------------------


INPUT GROUP: 8 -- Size parameters for dry deposition of particles
--------------

     For SINGLE SPECIES, the mean and standard deviation are used to
     compute a deposition velocity for NINT (see group 9) size-ranges,
     and these are then averaged to obtain a mean deposition velocity.

     For GROUPED SPECIES, the size distribution should be explicitly
     specified (by the 'species' in the group), and the standard deviation
     for each should be entered as 0.  The model will then use the
     deposition velocity for the stated mean diameter.

      SPECIES      GEOMETRIC MASS MEAN        GEOMETRIC STANDARD
       NAME             DIAMETER                   DEVIATION
                        (microns)                  (microns)
      -------      -------------------        ------------------

      ! SO4   =           0.48,                    2.00        !  *SO4 default values
      ! NO3   =           0.48,                    2.00        !  *NO3 default values

!END!

-------------------------------------------------------------------------------
```

INPUT GROUP: 9 -- Miscellaneous dry deposition parameters

Reference cuticle resistance (s/cm)
(RCUTR) Default: 30 ! RCUTR = 30.0 !
Reference ground resistance (s/cm)
(RGR) Default: 10 ! RGR = 10.0 !
Reference pollutant reactivity
(REACTR) Default: 8 ! REACTR = 8.0 !

Number of particle-size intervals used to
evaluate effective particle deposition velocity
(NINT) Default: 9 ! NINT = 5 !

Vegetation state in unirrigated areas
(IVEG) Default: 1 ! IVEG = 1 !
IVEG=1 for active and unstressed vegetation
IVEG=2 for active and stressed vegetation
IVEG=3 for inactive vegetation

!END!

INPUT GROUP: 10 -- Wet Deposition Parameters

Scavenging Coefficient -- Units: (sec)**(-1)

Pollutant	Liquid Precip.	Frozen Precip.

!END!

INPUT GROUP: 11a, 11b -- Chemistry Parameters

Subgroup (11a)

Several parameters are needed for one or more of the chemical transformation mechanisms. Those used for each mechanism are:

			M						B				
			A	B	R	R	R		C	B			N
		B	V	C	N	N	N	M	K	C	O		D
		C	M	G	K	I	I	I	H	H	K	F	V	E
	M	K	N	N	N	T	T	T	2	2	P	R	C	C

Mechanism (MCHEM)	O Z	O 3	H 3	H 3	H 3	E 1	E 2	E 3	O 2	O 2	M F	A C	N X	A Y
0 None	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1 MESOPUFF II	X	X	.	.	X	X	X	X	.	.	.	.	.	.
2 User Rates	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3 RIVAD	X	X	.	.	X	.	.	.	.	.	.	.	.	.
4 SOA	X	X	.	.	.	.	.	.	.	.	X	X	X	.
5 Radioactive Decay	.	.	.	.	.	.	.	.	.	.	.	.	.	X
6 RIVAD/ISORRPIA	X	X	X	X	X	X	.	.	X	X	.	.	.	.
7 RIVAD/ISORRPIA/SOA	X	X	X	X	X	X	.	.	X	X	X	X	.	.

Ozone data input option (MOZ) Default: 1 ! MOZ = 0 !
(Used only if MCHEM = 1, 3, 4, 6, or 7)
0 = use a monthly background ozone value
1 = read hourly ozone concentrations from
the OZONE.DAT data file

Monthly ozone concentrations in ppb (BCKO3)
(Used only if MCHEM = 1,3,4,6, or 7 and either
MOZ = 0, or
MOZ = 1 and all hourly O3 data missing)
Default: 12*80.
! BCKO3 = 32.0, 34.0, 37.0, 38.0, 32.0, 26.0, 23.0, 21.0, 23.0, 25.0, 28.0, 31.0 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background Concentrations

---

Ammonia data option (MNH3) Default: 0 ! MNH3 = 0 !
(Used only if MCHEM = 6 or 7)
0 = use monthly background ammonia values (BCKNH3) - no vertical variation
1 = read monthly background ammonia values for each layer from
the NH3Z.DAT data file

Ammonia vertical averaging option (MAVGNH3)
(Used only if MCHEM = 6 or 7, and MNH3 = 1)
0 = use NH3 at puff center height (no averaging is done)
1 = average NH3 values over vertical extent of puff
Default: 1 ! MAVGNH3 = 1 !

Monthly ammonia concentrations in ppb (BCKNH3)
(Used only if MCHEM = 1 or 3, or
if MCHEM = 6 or 7, and MNH3 = 0)
Default: 12*10.
! BCKNH3 = 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50, 0.50 !
* Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background Concentrations

---

Nighttime SO2 loss rate in %/hour (RNITE1)
(Used only if MCHEM = 1, 6 or 7)
This rate is used only at night for MCHEM=1
and is added to the computed rate both day
and night for MCHEM=6,7 (heterogeneous reactions)

```
                                    Default: 0.2          ! RNITE1 = 0.2 !

   Nighttime NOx loss rate in %/hour (RNITE2)
   (Used only if MCHEM = 1)
                                    Default: 2.0          ! RNITE2 = 2.0 !

   Nighttime HNO3 formation rate in %/hour (RNITE3)
   (Used only if MCHEM = 1)
                                    Default: 2.0          ! RNITE3 = 2.0 !

   H2O2 data input option (MH2O2)    Default: 1           ! MH2O2 =  0   !
   (Used only if MCHEM = 6 or 7, and MAQCHEM = 1)
      0 = use a monthly background H2O2 value
      1 = read hourly H2O2 concentrations from
          the H2O2.DAT data file

   Monthly H2O2 concentrations in ppb (BCKH2O2)
   (Used only if MQACHEM = 1 and either
      MH2O2 = 0 or
      MH2O2 = 1 and all hourly H2O2 data missing)
                                    Default: 12*1.
   !  BCKH2O2 = 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20 !
  * Ref. NL Guideline for Plume Dispersion Modelling rev.2, Table 4.2.2 – Background
  Concentrations
  ----------------------

--- Data for SECONDARY ORGANIC AEROSOL (SOA) Options
    (used only if MCHEM = 4 or 7)

    The MCHEM = 4 SOA module uses monthly values of:
         Fine particulate concentration in ug/m^3 (BCKPMF)
         Organic fraction of fine particulate     (OFRAC)
         VOC / NOX ratio (after reaction)         (VCNX)

    The MCHEM = 7 SOA module uses monthly values of:
         Fine particulate concentration in ug/m^3 (BCKPMF)
         Organic fraction of fine particulate     (OFRAC)

    These characterize the air mass when computing
    the formation of SOA from VOC emissions.
    Typical values for several distinct air mass types are:

       Month    1    2    3    4    5    6    7    8    9   10   11   12
                Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

    Clean Continental
       BCKPMF   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
       OFRAC  .15  .15  .20  .20  .20  .20  .20  .20  .20  .20  .20  .15
       VCNX    50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.

    Clean Marine (surface)
       BCKPMF  .5   .5   .5   .5   .5   .5   .5   .5   .5   .5   .5   .5
       OFRAC  .25  .25  .30  .30  .30  .30  .30  .30  .30  .30  .30  .25
       VCNX    50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.  50.
```

```
     Urban - low biogenic (controls present)
        BCKPMF  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.  30.
        OFRAC  .20  .20  .25  .25  .25  .25  .25  .25  .20  .20  .20  .20
        VCNX     4.   4.   4.   4.   4.   4.   4.   4.   4.   4.   4.   4.

     Urban - high biogenic (controls present)
        BCKPMF  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.  60.
        OFRAC  .25  .25  .30  .30  .30  .55  .55  .55  .35  .35  .35  .25
        VCNX    15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.

     Regional Plume
        BCKPMF  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.  20.
        OFRAC  .20  .20  .25  .35  .25  .40  .40  .40  .30  .30  .30  .20
        VCNX    15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.  15.

     Urban - no controls present
        BCKPMF 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100. 100.
        OFRAC  .30  .30  .35  .35  .35  .55  .55  .55  .35  .35  .35  .30
        VCNX     2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.   2.

     Default: Clean Continental
     !  BCKPMF = 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00, 1.00 !
     !  OFRAC  = 0.15, 0.15, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20, 0.15 !
     !  VCNX   = 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00, 50.00,
     50.00 !

 --- End Data for SECONDARY ORGANIC AEROSOL (SOA) Option


     Number of half-life decay specification blocks provided in Subgroup 11b
     (Used only if MCHEM = 5)
     (NDECAY)                                    Default: 0      ! NDECAY =  0   !

!END!


--------------
Subgroup (11b)
--------------

     Each species modeled may be assigned a decay half-life (sec), and the associated
     mass lost may be assigned to one or more other modeled species using a mass yield
     factor. This information is used only for MCHEM=5.

     Provide NDECAY blocks assigning the half-life for a parent species and mass yield
     factors for each child species (if any) produced by the decay.
     Set HALF_LIFE=0.0 for NO decay (infinite half-life).


                             a           b
        SPECIES      Half-Life   Mass Yield
         NAME          (sec)       Factor
        -------      ---------   ----------

     *   SPEC1   =    3600.,        -1.0   *    (Parent)
```

```
   *   SPEC2   =     -1.0,         0.0   *    (Child)
  *END*

--------
    a
     Specify a half life that is greater than or equal to zero for 1 parent species
     in each block, and set the yield factor for this species to -1
    b
     Specify a yield factor that is greater than or equal to zero for 1 or more child
     species in each block, and set the half-life for each of these species to -1

     NOTE: Assignments in each block are treated as a separate input
           subgroup and therefore must end with an input group terminator.
           If NDECAY=0, no assignments and input group terminators should appear.

-------------------------------------------------------------------------------


INPUT GROUP: 12 -- Misc. Dispersion and Computational Parameters
---------------

     Horizontal size of puff (m) beyond which
     time-dependent dispersion equations (Heffter)
     are used to determine sigma-y and
     sigma-z (SYTDEP)                          Default: 550.   ! SYTDEP = 550. !

     Switch for using Heffter equation for sigma z
     as above (0 = Not use Heffter; 1 = use Heffter
     (MHFTSZ)                                  Default: 0      ! MHFTSZ =  0   !

     Stability class used to determine plume
     growth rates for puffs above the boundary
     layer (JSUP)                              Default: 5      ! JSUP =  5   !

     Vertical dispersion constant for stable
     conditions (k1 in Eqn. 2.7-3)  (CONK1)    Default: 0.01   ! CONK1 = 0.01 !

     Vertical dispersion constant for neutral/
     unstable conditions (k2 in Eqn. 2.7-4)
     (CONK2)                                   Default: 0.1    ! CONK2 = 0.1 !

     Factor for determining Transition-point from
     Schulman-Scire to Huber-Snyder Building Downwash
     scheme (SS used for Hs < Hb + TBD * HL)
     (TBD)                                     Default: 0.5    ! TBD = 0.5 !
        TBD < 0   ==> always use Huber-Snyder
        TBD = 1.5 ==> always use Schulman-Scire
        TBD = 0.5 ==> ISC Transition-point

     Range of land use categories for which
     urban dispersion is assumed
     (IURB1, IURB2)                            Default: 10     ! IURB1 =  10  !
                                                        19     ! IURB2 =  19  !

     Site characterization parameters for single-point Met data files ---------
```

```
(needed for METFM = 2,3,4,5)

   Land use category for modeling domain
   (ILANDUIN)                              Default: 20     ! ILANDUIN =  20 !

   Roughness length (m) for modeling domain
   (Z0IN)                                  Default: 0.25   ! Z0IN =  0.25 !

   Leaf area index for modeling domain
   (XLAIIN)                                Default: 3.0    ! XLAIIN = 3.0 !

   Elevation above sea level (m)
   (ELEVIN)                                Default: 0.0    ! ELEVIN = 0.0 !

   Latitude (degrees) for met location
   (XLATIN)                                Default: -999.  ! XLATIN = -999. !

   Longitude (degrees) for met location
   (XLONIN)                                Default: -999.  ! XLONIN = -999. !

Specialized information for interpreting single-point Met data files -----

   Anemometer height (m) (Used only if METFM = 2,3)
   (ANEMHT)                                Default: 10.    ! ANEMHT = 10.0 !

   Form of lateral turbulance data in PROFILE.DAT file
   (Used only if METFM = 4,5 or MTURBVW = 1 or 3)
   (ISIGMAV)                               Default: 1      ! ISIGMAV =   1 !
       0 = read sigma-theta
       1 = read sigma-v

   Choice of mixing heights (Used only if METFM = 4)
   (IMIXCTDM)                              Default: 0      ! IMIXCTDM =  0 !
       0 = read PREDICTED mixing heights
       1 = read OBSERVED mixing heights

Maximum length of a slug (met. grid units)
(XMXLEN)                                   Default: 1.0    ! XMXLEN =  1.0 !

Maximum travel distance of a puff/slug (in
grid units) during one sampling step
(XSAMLEN)                                  Default: 1.0    ! XSAMLEN = 1.0 !

Maximum Number of slugs/puffs release from
one source during one time step
(MXNEW)                                    Default: 99     ! MXNEW =  99   !

Maximum Number of sampling steps for
one puff/slug during one time step
(MXSAM)                                    Default: 99     ! MXSAM =  99   !

Number of iterations used when computing
the transport wind for a sampling step
that includes gradual rise (for CALMET
and PROFILE winds)
```

(NCOUNT) Default: 2 ! NCOUNT = 2 !

Minimum sigma y for a new puff/slug (m)
(SYMIN) Default: 1.0 ! SYMIN = 1.0 !

Minimum sigma z for a new puff/slug (m)
(SZMIN) Default: 1.0 ! SZMIN = 1.0 !

Maximum sigma z (m) allowed to avoid
numerical problem in calculating virtual
time or distance. Cap should be large
enough to have no influence on normal events.
Enter a negative cap to disable.
(SZCAP_M) Default: 5.0E06 ! SZCAP_M = 5.0E06 !

Default minimum turbulence velocities sigma-v and sigma-w
for each stability class over land and over water (m/s)
(SVMIN(12) and SWMIN(12))

	LAND						WATER					
Stab Class :	A	B	C	D	E	F	A	B	C	D	E	F
Default SVMIN :	.50,	.50,	.50,	.50,	.50,	.50,	.37,	.37,	.37,	.37,	.37,	.37
Default SWMIN :	.20,	.12,	.08,	.06,	.03,	.016,	.20,	.12,	.08,	.06,	.03,	.016

! SVMIN = 0.500, 0.500, 0.500, 0.500, 0.500, 0.500, 0.370, 0.370, 0.370, 0.370,
0.370, 0.370!
! SWMIN = 0.200, 0.120, 0.080, 0.060, 0.030, 0.016, 0.200, 0.120, 0.080, 0.060,
0.030, 0.016!

Divergence criterion for dw/dz across puff
used to initiate adjustment for horizontal
convergence (1/s)
Partial adjustment starts at CDIV(1), and
full adjustment is reached at CDIV(2)
(CDIV(2)) Default: 0.0,0.0 ! CDIV = 0.0, 0.0 !

Search radius (number of cells) for nearest
land and water cells used in the subgrid
TIBL module
(NLUTIBL) Default: 4 ! NLUTIBL = 4 !

Minimum wind speed (m/s) allowed for
non-calm conditions. Also used as minimum
speed returned when using power-law
extrapolation toward surface
(WSCALM) Default: 0.5 ! WSCALM = 0.5 !

Maximum mixing height (m)
(XMAXZI) Default: 3000. ! XMAXZI = 3000.0 !

Minimum mixing height (m)
(XMINZI) Default: 50. ! XMINZI = 50. !

Default wind speed classes --

```
5 upper bounds (m/s) are entered;
the 6th class has no upper limit
(WSCAT(5))                      Default   :
                                ISC RURAL : 1.54, 3.09, 5.14, 8.23, 10.80 (10.8+)

                          Wind Speed Class :  1     2     3     4     5
                                             ---   ---   ---   ---   ---
                                  ! WSCAT = 1.54, 3.09, 5.14, 8.23, 10.80 !

Default wind speed profile power-law
exponents for stabilities 1-6
(PLX0(6))                       Default   : ISC RURAL values
                                ISC RURAL : .07, .07, .10, .15, .35, .55
                                ISC URBAN : .15, .15, .20, .25, .30, .30

                           Stability Class :  A     B     C     D     E     F
                                             ---   ---   ---   ---   ---   ---
                                  ! PLX0 = 0.07, 0.07, 0.10, 0.15, 0.35, 0.55 !

Default potential temperature gradient
for stable classes E, F (degK/m)
(PTG0(2))                       Default:    0.020,   0.035
                                  ! PTG0 = 0.020,   0.035 !

Default plume path coefficients for
each stability class (used when option
for partial plume height terrain adjustment
is selected -- MCTADJ=3)
(PPC(6))                    Stability Class :  A     B     C     D     E     F
                               Default  PPC : .50,  .50,  .50,  .50,  .35,  .35
                                             ---   ---   ---   ---   ---   ---
                                  !  PPC = 0.50, 0.50, 0.50, 0.50, 0.35, 0.35 !

Slug-to-puff transition criterion factor
equal to sigma-y/length of slug
(SL2PF)                             Default: 10.        ! SL2PF = 10.0 !

Puff-splitting control variables -----------------------

  VERTICAL SPLIT
  --------------

  Number of puffs that result every time a puff
  is split - nsplit=2 means that 1 puff splits
  into 2
  (NSPLIT)                          Default:   3        ! NSPLIT =  3  !

  Time(s) of a day when split puffs are eligible to
  be split once again; this is typically set once
  per day, around sunset before nocturnal shear develops.
  24 values: 0 is midnight (00:00) and 23 is 11 PM (23:00)
  0=do not re-split    1=eligible for re-split
  (IRESPLIT(24))                    Default:  Hour 17 = 1
  !  IRESPLIT = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0 !
```

```
  Split is allowed only if last hour's mixing
  height (m) exceeds a minimum value
  (ZISPLIT)                          Default: 100.       ! ZISPLIT = 100.0 !

  Split is allowed only if ratio of last hour's
  mixing ht to the maximum mixing ht experienced
  by the puff is less than a maximum value (this
  postpones a split until a nocturnal layer develops)
  (ROLDMAX)                          Default: 0.25       ! ROLDMAX = 0.25 !


  HORIZONTAL SPLIT
  ----------------

  Number of puffs that result every time a puff
  is split - nsplith=5 means that 1 puff splits
  into 5
  (NSPLITH)                          Default:   5        ! NSPLITH =  5   !

  Minimum sigma-y (Grid Cells Units) of puff
  before it may be split
  (SYSPLITH)                         Default:  1.0       ! SYSPLITH = 1.0 !

  Minimum puff elongation rate (SYSPLITH/hr) due to
  wind shear, before it may be split
  (SHSPLITH)                         Default:  2.        ! SHSPLITH = 2.0 !

  Minimum concentration (g/m^3) of each
  species in puff before it may be split
  Enter array of NSPEC values; if a single value is
  entered, it will be used for ALL species
  (CNSPLITH)                         Default:  1.0E-07   ! CNSPLITH = 1.0E-07 !

Integration control variables ------------------------

  Fractional convergence criterion for numerical SLUG
  sampling integration
  (EPSSLUG)                          Default:   1.0E-04  ! EPSSLUG =  1.0E-04 !

  Fractional convergence criterion for numerical AREA
  source integration
  (EPSAREA)                          Default:   1.0E-06  ! EPSAREA =  1.0E-06 !

  Trajectory step-length (m) used for numerical rise
  integration
  (DSRISE)                           Default:   1.0      ! DSRISE = 1.0 !

  Boundary Condition (BC) Puff control variables ------------------------

  Minimum height (m) to which BC puffs are mixed as they are emitted
  (MBCON=2 ONLY).  Actual height is reset to the current mixing height
  at the release point if greater than this minimum.
  (HTMINBC)                          Default:   500.     ! HTMINBC = 500.0 !

  Search radius (km) about a receptor for sampling nearest BC puff.
```

```
       BC puffs are typically emitted with a spacing of one grid cell
       length, so the search radius should be greater than DGRIDKM.
       (RSAMPBC)                          Default:   10.      ! RSAMPBC = 10.0  !

       Near-Surface depletion adjustment to concentration profile used when
       sampling BC puffs?
       (MDEPBC)                           Default:   1        ! MDEPBC =  1  !
          0 = Concentration is NOT adjusted for depletion
          1 = Adjust Concentration for depletion

!END!


--------------------------------------------------------------------------------


INPUT GROUPS: 13a, 13b, 13c, 13d -- Point source parameters
---------------------------------

---------------
Subgroup (13a)
---------------

     Number of point sources with
     parameters provided below      (NPT1)  No default  !  NPT1 =   0  !

     Units used for point source
     emissions below                (IPTU)  Default: 1  !  IPTU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min
           7 =     metric tons/yr
           8 =     Bq/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (13d)        (NSPT1) Default: 0  !  NSPT1 =  0  !

     Number of point sources with
     variable emission parameters
     provided in external file      (NPT2)  No default  !  NPT2  = 265 !

     (If NPT2 > 0, these point
     source emissions are read from
     the file: PTEMARB.DAT)

!END!

---------------
Subgroup (13b)
```

---

a

POINT SOURCE: CONSTANT DATA

Source No.	X Coordinate (km)	Y Coordinate (km)	Stack Height (m)	Base Elevation (m)	Stack Diameter (m)	Exit Vel. (m/s)	Exit Temp. (deg. K)	b Bldg. Dwash	c Emission Rates

---

a

Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

SRCNAM is a 12-character name for a source
(No default)

X is an array holding the source data listed by the column headings
(No default)

SIGYZI is an array holding the initial sigma-y and sigma-z (m)
(Default: 0.,0.)

FMFAC is a vertical momentum flux factor (0. or 1.0) used to represent the effect of rain-caps or other physical configurations that reduce momentum rise associated with the actual exit velocity.
(Default: 1.0 -- full momentum used)

ZPLTFM is the platform height (m) for sources influenced by an isolated structure that has a significant open area between the surface and the bulk of the structure, such as an offshore oil platform. The Base Elevation is that of the surface (ground or ocean), and the Stack Height is the release height above the Base (not above the platform). Building heights entered in Subgroup 13c must be those of the buildings on the platform, measured from the platform deck. ZPLTFM is used only with MBDW=1 (ISC downwash method) for sources with building downwash.
(Default: 0.0)

b

0. = No building downwash modeled
1. = Downwash modeled for buildings resting on the surface
2. = Downwash modeled for buildings raised above the surface (ZPLTFM > 0.)
NOTE: must be entered as a REAL number (i.e., with decimal point)

c

An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IPTU (e.g. 1 for g/s).

Subgroup (13c)

BUILDING DIMENSION DATA FOR SOURCES SUBJECT TO DOWNWASH

Source No.	Effective building height, width, length and X/Y offset (in meters) every 10 degrees. LENGTH, XBADJ, and YBADJ are only needed for MBDW=2 (PRIME downwash option) [a]

---

a
Building height, width, length, and X/Y offset from the source are treated as a separate input subgroup for each source and therefore must end with an input group terminator. The X/Y offset is the position, relative to the stack, of the center of the upwind face of the projected building, with the x-axis pointing along the flow direction.

Subgroup (13d)

---

a

POINT SOURCE: VARIABLE EMISSIONS DATA

Use this subgroup to describe temporal variations in the emission rates given in 13b. Factors entered multiply the rates in 13b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use PTEMARB.DAT and NPT2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 14a, 14b, 14c, 14d -- Area source parameters

Subgroup (14a)

Number of polygon area sources with
parameters specified below (NAR1) No default ! NAR1 = 0 !

Units used for area source
emissions below (IARU) Default: 1 ! IARU = 1 !
1 = g/m**2/s
2 = kg/m**2/hr
3 = lb/m**2/hr
4 = tons/m**2/yr
5 = Odour Unit * m/s (vol. flux/m**2 of odour compound)
6 = Odour Unit * m/min
7 = metric tons/m**2/yr
8 = Bq/m**2/s (Bq = becquerel = disintegrations/s)
9 = GBq/m**2/yr

Number of source-species
combinations with variable
emissions scaling factors
provided below in (14d) (NSAR1) Default: 0 ! NSAR1 = 0 !

Number of buoyant polygon area sources
with variable location and emission
parameters (NAR2) No default ! NAR2 = 0 !
(If NAR2 > 0, ALL parameter data for
these sources are read from the file: BAEMARB.DAT)

!END!

Subgroup (14b)
---

a

AREA SOURCE: CONSTANT DATA

b

Source No.	Effect. Height (m)	Base Elevation (m)	Initial Sigma z (m)	Emission Rates
-------	------	------	--------	---------

---

a
Data for each source are treated as a separate input subgroup
and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled.
Enter emission rate of zero for secondary pollutants that are
modeled, but not emitted. Units are specified by IARU
(e.g. 1 for g/m**2/s).

Subgroup (14c)

Source No.	COORDINATES (km) FOR EACH VERTEX(4) OF EACH POLYGON Ordered list of X followed by list of Y, grouped by source	
------	----------	a

---

[a] Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

Subgroup (14d)

AREA SOURCE: VARIABLE EMISSIONS DATA [a]

Use this subgroup to describe temporal variations in the emission rates given in 14b. Factors entered multiply the rates in 14b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use BAEMARB.DAT and NAR2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

```
INPUT GROUPS: 15a, 15b, 15c -- Line source parameters
---------------------------

---------------
Subgroup (15a)
---------------

     Number of buoyant line sources
     with variable location and emission
     parameters (NLN2)                              No default  ! NLN2 =    0 !

     (If NLN2 > 0, ALL parameter data for
      these sources are read from the file: LNEMARB.DAT)

     Number of buoyant line sources (NLINES)        No default  ! NLINES =  0 !

     Units used for line source
     emissions below                (ILNU)          Default: 1  ! ILNU =    1 !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min
           7 =     metric tons/yr
           8 =     Bq/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (15c)        (NSLN1) Default: 0  !  NSLN1 =  0  !

     Maximum number of segments used to model
     each line (MXNSEG)                             Default: 7   ! MXNSEG =  7  !

     The following variables are required only if NLINES > 0.  They are
     used in the buoyant line source plume rise calculations.

        Number of distances at which                Default: 6   ! NLRISE =  6  !
        transitional rise is computed

        Average building length (XL)                No default   ! XL =  .0 !
                                                    (in meters)

        Average building height (HBL)               No default   ! HBL = .0 !
                                                    (in meters)

        Average building width (WBL)                No default   ! WBL = .0 !
                                                    (in meters)

        Average line source width (WML)             No default   ! WML = .0 !
                                                    (in meters)

        Average separation between buildings (DXL)  No default   ! DXL = .0 !
```

(in meters)

Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = .0 !
(in m**4/s**3)

!END!

Subgroup (15b)

BUOYANT LINE SOURCE: CONSTANT DATA

Source No.	Beg. X Coordinate (km)	Beg. Y Coordinate (km)	End. X Coordinate (km)	End. Y Coordinate (km)	Release Height (m)	Base Elevation (m)	Emission Rates[a]

---

a
Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by ILNTU (e.g. 1 for g/s).

Subgroup (15c)

BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of:

```
                                  0, 5, 10, 15, 20, 25, 30, 35, 40,
                                  45, 50, 50+)


--------
    a
     Data for each species are treated as a separate input subgroup
     and therefore must end with an input group terminator.


------------------------------------------------------------------------------


INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters
---------------------------

---------------
Subgroup (16a)
---------------

     Number of volume sources with
     parameters provided in 16b,c (NVL1)     No default  !  NVL1 =   0  !

     Units used for volume source
     emissions below in 16b       (IVLU)     Default: 1  !  IVLU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min
           7 =     metric tons/yr
           8 =     Bq/s  (Bq = becquerel = disintegrations/s)
           9 =     GBq/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (16c)      (NSVL1)    Default: 0  !  NSVL1 =  0  !

     Number of volume sources with
     variable location and emission
     parameters                   (NVL2)     No default  !  NVL2  =  0  !

     (If NVL2 > 0, ALL parameter data for
      these sources are read from the VOLEMARB.DAT file(s) )

!END!

---------------
Subgroup (16b)
---------------
                                      a
           VOLUME SOURCE: CONSTANT DATA
           ----------------------------
```

X Coordinate (km)	Y Coordinate (km)	Effect. Height (m)	Base Elevation (m)	Initial Sigma y (m)	Initial Sigma z (m)	Emission Rates [b]

---

a
Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

b
An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IVLU (e.g. 1 for g/s).

Subgroup (16c)

VOLUME SOURCE: VARIABLE EMISSIONS DATA [a]

Use this subgroup to describe temporal variations in the emission rates given in 16b. Factors entered multiply the rates in 16b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use VOLEMARB.DAT and NVL2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

a
Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information

---

Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 1601 !

!END!

Subgroup (17b)
---

a

NON-GRIDDED (DISCRETE) RECEPTOR DATA

Receptor No.	X Coordinate (km)	Y Coordinate (km)	Ground Elevation (m)	Height Above Ground (m)	b	
DSC0001	X = 651.8161,	6057.077,	471.730,	0 !	!END!	CABIN_57
DSC0002	X = 651.8456,	6057.131,	476.820,	0 !	!END!	CABIN_58
DSC0003	X = 651.8475,	6057.175,	477.075,	0 !	!END!	CABIN_59
DSC0004	X = 652.2129,	6056.643,	484.755,	0 !	!END!	CABIN_60
DSC0005	X = 652.4431,	6056.479,	462.620,	0 !	!END!	CABIN_61
DSC0006	X = 652.4767,	6056.522,	464.631,	0 !	!END!	CABIN_62
DSC0007	X = 652.8808,	6061.315,	481.756,	0 !	!END!	CABIN_63
DSC0008	X = 652.9083,	6061.333,	483.320,	0 !	!END!	CABIN_64
DSC0009	X = 652.9162,	6061.192,	475.242,	0 !	!END!	CABIN_65
DSC0010	X = 653.1604,	6060.946,	491.114,	0 !	!END!	CABIN_66
DSC0011	X = 653.1610,	6060.905,	490.554,	0 !	!END!	CABIN_67
DSC0012	X = 653.1932,	6060.837,	486.913,	0 !	!END!	CABIN_68
DSC0013	X = 653.5084,	6060.569,	472.688,	0 !	!END!	CABIN_69
DSC0014	X = 653.5701,	6060.469,	473.750,	0 !	!END!	CABIN_70
DSC0015	X = 651.9000,	6057.300,	483.288,	0 !	!END!	GR_R0001
DSC0016	X = 651.9500,	6057.300,	488.000,	0 !	!END!	GR_R0002
DSC0017	X = 652.0000,	6057.300,	487.403,	0 !	!END!	GR_R0003
DSC0018	X = 652.0500,	6057.300,	487.000,	0 !	!END!	GR_R0004
DSC0019	X = 652.1000,	6057.300,	488.000,	0 !	!END!	GR_R0005
DSC0020	X = 652.1500,	6057.300,	488.000,	0 !	!END!	GR_R0006
DSC0021	X = 652.2000,	6057.300,	488.314,	0 !	!END!	GR_R0007
DSC0022	X = 652.2500,	6057.300,	490.138,	0 !	!END!	GR_R0008
DSC0023	X = 652.3000,	6057.300,	492.004,	0 !	!END!	GR_R0009
DSC0024	X = 652.3500,	6057.300,	492.815,	0 !	!END!	GR_R0010
DSC0025	X = 652.4000,	6057.300,	493.254,	0 !	!END!	GR_R0011
DSC0026	X = 652.4500,	6057.300,	493.182,	0 !	!END!	GR_R0012
DSC0027	X = 652.5000,	6057.300,	492.222,	0 !	!END!	GR_R0013
DSC0028	X = 652.5500,	6057.300,	491.034,	0 !	!END!	GR_R0014
DSC0029	X = 652.6000,	6057.300,	490.672,	0 !	!END!	GR_R0015
DSC0030	X = 652.6500,	6057.300,	488.998,	0 !	!END!	GR_R0016
DSC0031	X = 652.7000,	6057.300,	487.086,	0 !	!END!	GR_R0017
DSC0032	X = 652.7500,	6057.300,	482.803,	0 !	!END!	GR_R0018
DSC0033	X = 652.8000,	6057.300,	479.834,	0 !	!END!	GR_R0019

```
DSC0034 ! X =   652.8500,   6057.300,    477.118,    0 !   !END!  GR_R0020
DSC0035 ! X =   652.9000,   6057.300,    474.687,    0 !   !END!  GR_R0021
DSC0036 ! X =   651.9000,   6057.350,    482.355,    0 !   !END!  GR_R0022
DSC0037 ! X =   651.9500,   6057.350,    485.764,    0 !   !END!  GR_R0023
DSC0038 ! X =   652.0000,   6057.350,    485.845,    0 !   !END!  GR_R0024
DSC0039 ! X =   652.0500,   6057.350,    487.000,    0 !   !END!  GR_R0025
DSC0040 ! X =   652.1000,   6057.350,    488.000,    0 !   !END!  GR_R0026
DSC0041 ! X =   652.1500,   6057.350,    488.770,    0 !   !END!  GR_R0027
DSC0042 ! X =   652.2000,   6057.350,    489.698,    0 !   !END!  GR_R0028
DSC0043 ! X =   652.2500,   6057.350,    492.045,    0 !   !END!  GR_R0029
DSC0044 ! X =   652.3000,   6057.350,    493.614,    0 !   !END!  GR_R0030
DSC0045 ! X =   652.3500,   6057.350,    494.482,    0 !   !END!  GR_R0031
DSC0046 ! X =   652.4000,   6057.350,    495.231,    0 !   !END!  GR_R0032
DSC0047 ! X =   652.4500,   6057.350,    494.813,    0 !   !END!  GR_R0033
DSC0048 ! X =   652.5000,   6057.350,    493.264,    0 !   !END!  GR_R0034
DSC0049 ! X =   652.5500,   6057.350,    492.055,    0 !   !END!  GR_R0035
DSC0050 ! X =   652.6000,   6057.350,    491.000,    0 !   !END!  GR_R0036
DSC0051 ! X =   652.6500,   6057.350,    489.859,    0 !   !END!  GR_R0037
DSC0052 ! X =   652.7000,   6057.350,    487.139,    0 !   !END!  GR_R0038
DSC0053 ! X =   652.7500,   6057.350,    481.905,    0 !   !END!  GR_R0039
DSC0054 ! X =   652.8000,   6057.350,    478.171,    0 !   !END!  GR_R0040
DSC0055 ! X =   652.8500,   6057.350,    475.995,    0 !   !END!  GR_R0041
DSC0056 ! X =   652.9000,   6057.350,    473.509,    0 !   !END!  GR_R0042
DSC0057 ! X =   651.9000,   6057.400,    483.285,    0 !   !END!  GR_R0043
DSC0058 ! X =   651.9500,   6057.400,    485.678,    0 !   !END!  GR_R0044
DSC0059 ! X =   652.0000,   6057.400,    488.973,    0 !   !END!  GR_R0045
DSC0060 ! X =   652.0500,   6057.400,    488.705,    0 !   !END!  GR_R0046
DSC0061 ! X =   652.1000,   6057.400,    489.397,    0 !   !END!  GR_R0047
DSC0062 ! X =   652.1500,   6057.400,    490.925,    0 !   !END!  GR_R0048
DSC0063 ! X =   652.2000,   6057.400,    491.853,    0 !   !END!  GR_R0049
DSC0064 ! X =   652.2500,   6057.400,    493.781,    0 !   !END!  GR_R0050
DSC0065 ! X =   652.3000,   6057.400,    495.709,    0 !   !END!  GR_R0051
DSC0066 ! X =   652.3500,   6057.400,    496.620,    0 !   !END!  GR_R0052
DSC0067 ! X =   652.4000,   6057.400,    496.565,    0 !   !END!  GR_R0053
DSC0068 ! X =   652.4500,   6057.400,    496.000,    0 !   !END!  GR_R0054
DSC0069 ! X =   652.5000,   6057.400,    494.000,    0 !   !END!  GR_R0055
DSC0070 ! X =   652.5500,   6057.400,    492.165,    0 !   !END!  GR_R0056
DSC0071 ! X =   652.6000,   6057.400,    490.850,    0 !   !END!  GR_R0057
DSC0072 ! X =   652.6500,   6057.400,    488.946,    0 !   !END!  GR_R0058
DSC0073 ! X =   652.7000,   6057.400,    486.027,    0 !   !END!  GR_R0059
DSC0074 ! X =   652.7500,   6057.400,    480.542,    0 !   !END!  GR_R0060
DSC0075 ! X =   652.8000,   6057.400,    476.025,    0 !   !END!  GR_R0061
DSC0076 ! X =   652.8500,   6057.400,    475.081,    0 !   !END!  GR_R0062
DSC0077 ! X =   652.9000,   6057.400,    472.154,    0 !   !END!  GR_R0063
DSC0078 ! X =   651.9000,   6057.450,    485.440,    0 !   !END!  GR_R0064
DSC0079 ! X =   651.9500,   6057.450,    488.137,    0 !   !END!  GR_R0065
DSC0080 ! X =   652.0000,   6057.450,    490.296,    0 !   !END!  GR_R0066
DSC0081 ! X =   652.0500,   6057.450,    490.224,    0 !   !END!  GR_R0067
DSC0082 ! X =   652.1000,   6057.450,    491.152,    0 !   !END!  GR_R0068
DSC0083 ! X =   652.1500,   6057.450,    492.318,    0 !   !END!  GR_R0069
DSC0084 ! X =   652.2000,   6057.450,    494.008,    0 !   !END!  GR_R0070
DSC0085 ! X =   652.2500,   6057.450,    495.936,    0 !   !END!  GR_R0071
DSC0086 ! X =   652.3000,   6057.450,    497.248,    0 !   !END!  GR_R0072
DSC0087 ! X =   652.3500,   6057.450,    497.813,    0 !   !END!  GR_R0073
DSC0088 ! X =   652.4000,   6057.450,    498.000,    0 !   !END!  GR_R0074
```

```
DSC0089 ! X =   652.4500,   6057.450,    496.470,    0 !   !END!  GR_R0075
DSC0090 ! X =   652.5000,   6057.450,    493.860,    0 !   !END!  GR_R0076
DSC0091 ! X =   652.5500,   6057.450,    492.020,    0 !   !END!  GR_R0077
DSC0092 ! X =   652.6000,   6057.450,    490.000,    0 !   !END!  GR_R0078
DSC0093 ! X =   652.6500,   6057.450,    488.390,    0 !   !END!  GR_R0079
DSC0094 ! X =   652.7000,   6057.450,    484.527,    0 !   !END!  GR_R0080
DSC0095 ! X =   652.7500,   6057.450,    478.963,    0 !   !END!  GR_R0081
DSC0096 ! X =   652.8000,   6057.450,    473.786,    0 !   !END!  GR_R0082
DSC0097 ! X =   652.8500,   6057.450,    472.938,    0 !   !END!  GR_R0083
DSC0098 ! X =   652.9000,   6057.450,    472.000,    0 !   !END!  GR_R0084
DSC0099 ! X =   651.9000,   6057.500,    487.378,    0 !   !END!  GR_R0085
DSC0100 ! X =   651.9500,   6057.500,    490.021,    0 !   !END!  GR_R0086
DSC0101 ! X =   652.0000,   6057.500,    492.098,    0 !   !END!  GR_R0087
DSC0102 ! X =   652.0500,   6057.500,    492.379,    0 !   !END!  GR_R0088
DSC0103 ! X =   652.1000,   6057.500,    493.307,    0 !   !END!  GR_R0089
DSC0104 ! X =   652.1500,   6057.500,    494.513,    0 !   !END!  GR_R0090
DSC0105 ! X =   652.2000,   6057.500,    496.163,    0 !   !END!  GR_R0091
DSC0106 ! X =   652.2500,   6057.500,    497.885,    0 !   !END!  GR_R0092
DSC0107 ! X =   652.3000,   6057.500,    499.019,    0 !   !END!  GR_R0093
DSC0108 ! X =   652.3500,   6057.500,    499.947,    0 !   !END!  GR_R0094
DSC0109 ! X =   652.4000,   6057.500,    499.000,    0 !   !END!  GR_R0095
DSC0110 ! X =   652.4500,   6057.500,    496.346,    0 !   !END!  GR_R0096
DSC0111 ! X =   652.5000,   6057.500,    493.172,    0 !   !END!  GR_R0097
DSC0112 ! X =   652.5500,   6057.500,    490.941,    0 !   !END!  GR_R0098
DSC0113 ! X =   652.6000,   6057.500,    488.531,    0 !   !END!  GR_R0099
DSC0114 ! X =   652.6500,   6057.500,    486.970,    0 !   !END!  GR_R0100
DSC0115 ! X =   652.7000,   6057.500,    482.662,    0 !   !END!  GR_R0101
DSC0116 ! X =   652.7500,   6057.500,    477.081,    0 !   !END!  GR_R0102
DSC0117 ! X =   652.8000,   6057.500,    472.098,    0 !   !END!  GR_R0103
DSC0118 ! X =   652.8500,   6057.500,    470.782,    0 !   !END!  GR_R0104
DSC0119 ! X =   652.9000,   6057.500,    469.758,    0 !   !END!  GR_R0105
DSC0120 ! X =   651.9000,   6057.550,    488.750,    0 !   !END!  GR_R0106
DSC0121 ! X =   651.9500,   6057.550,    491.422,    0 !   !END!  GR_R0107
DSC0122 ! X =   652.0000,   6057.550,    493.606,    0 !   !END!  GR_R0108
DSC0123 ! X =   652.0500,   6057.550,    494.534,    0 !   !END!  GR_R0109
DSC0124 ! X =   652.1000,   6057.550,    495.462,    0 !   !END!  GR_R0110
DSC0125 ! X =   652.1500,   6057.550,    496.390,    0 !   !END!  GR_R0111
DSC0126 ! X =   652.2000,   6057.550,    498.318,    0 !   !END!  GR_R0112
DSC0127 ! X =   652.2500,   6057.550,    500.165,    0 !   !END!  GR_R0113
DSC0128 ! X =   652.3000,   6057.550,    501.174,    0 !   !END!  GR_R0114
DSC0129 ! X =   652.3500,   6057.550,    501.102,    0 !   !END!  GR_R0115
DSC0130 ! X =   652.4000,   6057.550,    498.936,    0 !   !END!  GR_R0116
DSC0131 ! X =   652.4500,   6057.550,    495.221,    0 !   !END!  GR_R0117
DSC0132 ! X =   652.5000,   6057.550,    492.059,    0 !   !END!  GR_R0118
DSC0133 ! X =   652.5500,   6057.550,    489.826,    0 !   !END!  GR_R0119
DSC0134 ! X =   652.6000,   6057.550,    487.314,    0 !   !END!  GR_R0120
DSC0135 ! X =   652.6500,   6057.550,    484.690,    0 !   !END!  GR_R0121
DSC0136 ! X =   652.7000,   6057.550,    480.900,    0 !   !END!  GR_R0122
DSC0137 ! X =   652.7500,   6057.550,    475.403,    0 !   !END!  GR_R0123
DSC0138 ! X =   652.8000,   6057.550,    472.116,    0 !   !END!  GR_R0124
DSC0139 ! X =   652.8500,   6057.550,    468.812,    0 !   !END!  GR_R0125
DSC0140 ! X =   652.9000,   6057.550,    467.478,    0 !   !END!  GR_R0126
DSC0141 ! X =   651.9000,   6057.600,    490.938,    0 !   !END!  GR_R0127
DSC0142 ! X =   651.9500,   6057.600,    493.581,    0 !   !END!  GR_R0128
DSC0143 ! X =   652.0000,   6057.600,    495.224,    0 !   !END!  GR_R0129
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DSC0144 ! X =   652.0500,   6057.600,    496.690,    0 !   !END!  GR_R0130
DSC0145 ! X =   652.1000,   6057.600,    497.618,    0 !   !END!  GR_R0131
DSC0146 ! X =   652.1500,   6057.600,    498.546,    0 !   !END!  GR_R0132
DSC0147 ! X =   652.2000,   6057.600,    499.802,    0 !   !END!  GR_R0133
DSC0148 ! X =   652.2500,   6057.600,    501.427,    0 !   !END!  GR_R0134
DSC0149 ! X =   652.3000,   6057.600,    502.838,    0 !   !END!  GR_R0135
DSC0150 ! X =   652.3500,   6057.600,    502.648,    0 !   !END!  GR_R0136
DSC0151 ! X =   652.4000,   6057.600,    499.622,    0 !   !END!  GR_R0137
DSC0152 ! X =   652.4500,   6057.600,    493.998,    0 !   !END!  GR_R0138
DSC0153 ! X =   652.5000,   6057.600,    490.339,    0 !   !END!  GR_R0139
DSC0154 ! X =   652.5500,   6057.600,    488.023,    0 !   !END!  GR_R0140
DSC0155 ! X =   652.6000,   6057.600,    485.951,    0 !   !END!  GR_R0141
DSC0156 ! X =   652.6500,   6057.600,    483.368,    0 !   !END!  GR_R0142
DSC0157 ! X =   652.7000,   6057.600,    479.152,    0 !   !END!  GR_R0143
DSC0158 ! X =   652.7500,   6057.600,    473.923,    0 !   !END!  GR_R0144
DSC0159 ! X =   652.8000,   6057.600,    470.485,    0 !   !END!  GR_R0145
DSC0160 ! X =   652.8500,   6057.600,    467.174,    0 !   !END!  GR_R0146
DSC0161 ! X =   652.9000,   6057.600,    465.198,    0 !   !END!  GR_R0147
DSC0162 ! X =   651.9000,   6057.650,    493.061,    0 !   !END!  GR_R0148
DSC0163 ! X =   651.9500,   6057.650,    494.989,    0 !   !END!  GR_R0149
DSC0164 ! X =   652.0000,   6057.650,    496.966,    0 !   !END!  GR_R0150
DSC0165 ! X =   652.0500,   6057.650,    498.845,    0 !   !END!  GR_R0151
DSC0166 ! X =   652.1000,   6057.650,    499.773,    0 !   !END!  GR_R0152
DSC0167 ! X =   652.1500,   6057.650,    500.438,    0 !   !END!  GR_R0153
DSC0168 ! X =   652.2000,   6057.650,    501.629,    0 !   !END!  GR_R0154
DSC0169 ! X =   652.2500,   6057.650,    503.000,    0 !   !END!  GR_R0155
DSC0170 ! X =   652.3000,   6057.650,    504.000,    0 !   !END!  GR_R0156
DSC0171 ! X =   652.3500,   6057.650,    504.164,    0 !   !END!  GR_R0157
DSC0172 ! X =   652.4000,   6057.650,    498.373,    0 !   !END!  GR_R0158
DSC0173 ! X =   652.4500,   6057.650,    492.422,    0 !   !END!  GR_R0159
DSC0174 ! X =   652.5000,   6057.650,    488.251,    0 !   !END!  GR_R0160
DSC0175 ! X =   652.5500,   6057.650,    486.472,    0 !   !END!  GR_R0161
DSC0176 ! X =   652.6000,   6057.650,    483.781,    0 !   !END!  GR_R0162
DSC0177 ! X =   652.6500,   6057.650,    481.130,    0 !   !END!  GR_R0163
DSC0178 ! X =   652.7000,   6057.650,    477.486,    0 !   !END!  GR_R0164
DSC0179 ! X =   652.7500,   6057.650,    473.621,    0 !   !END!  GR_R0165
DSC0180 ! X =   652.8000,   6057.650,    470.920,    0 !   !END!  GR_R0166
DSC0181 ! X =   652.8500,   6057.650,    465.562,    0 !   !END!  GR_R0167
DSC0182 ! X =   652.9000,   6057.650,    463.389,    0 !   !END!  GR_R0168
DSC0183 ! X =   651.9000,   6057.700,    495.277,    0 !   !END!  GR_R0169
DSC0184 ! X =   651.9500,   6057.700,    497.144,    0 !   !END!  GR_R0170
DSC0185 ! X =   652.0000,   6057.700,    499.051,    0 !   !END!  GR_R0171
DSC0186 ! X =   652.0500,   6057.700,    500.432,    0 !   !END!  GR_R0172
DSC0187 ! X =   652.1000,   6057.700,    501.075,    0 !   !END!  GR_R0173
DSC0188 ! X =   652.1500,   6057.700,    501.856,    0 !   !END!  GR_R0174
DSC0189 ! X =   652.2000,   6057.700,    502.909,    0 !   !END!  GR_R0175
DSC0190 ! X =   652.2500,   6057.700,    503.796,    0 !   !END!  GR_R0176
DSC0191 ! X =   652.3000,   6057.700,    504.365,    0 !   !END!  GR_R0177
DSC0192 ! X =   652.3500,   6057.700,    504.277,    0 !   !END!  GR_R0178
DSC0193 ! X =   652.4000,   6057.700,    496.908,    0 !   !END!  GR_R0179
DSC0194 ! X =   652.4500,   6057.700,    489.422,    0 !   !END!  GR_R0180
DSC0195 ! X =   652.5000,   6057.700,    486.779,    0 !   !END!  GR_R0181
DSC0196 ! X =   652.5500,   6057.700,    484.725,    0 !   !END!  GR_R0182
DSC0197 ! X =   652.6000,   6057.700,    482.493,    0 !   !END!  GR_R0183
DSC0198 ! X =   652.6500,   6057.700,    479.850,    0 !   !END!  GR_R0184
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DSC0199 ! X =   652.7000,   6057.700,    476.250,    0 !   !END!  GR_R0185
DSC0200 ! X =   652.7500,   6057.700,    473.556,    0 !   !END!  GR_R0186
DSC0201 ! X =   652.8000,   6057.700,    469.760,    0 !   !END!  GR_R0187
DSC0202 ! X =   652.8500,   6057.700,    463.392,    0 !   !END!  GR_R0188
DSC0203 ! X =   652.9000,   6057.700,    461.234,    0 !   !END!  GR_R0189
DSC0204 ! X =   651.9000,   6057.750,    498.371,    0 !   !END!  GR_R0190
DSC0205 ! X =   651.9500,   6057.750,    499.299,    0 !   !END!  GR_R0191
DSC0206 ! X =   652.0000,   6057.750,    500.874,    0 !   !END!  GR_R0192
DSC0207 ! X =   652.0500,   6057.750,    502.086,    0 !   !END!  GR_R0193
DSC0208 ! X =   652.1000,   6057.750,    503.000,    0 !   !END!  GR_R0194
DSC0209 ! X =   652.1500,   6057.750,    503.000,    0 !   !END!  GR_R0195
DSC0210 ! X =   652.2000,   6057.750,    503.939,    0 !   !END!  GR_R0196
DSC0211 ! X =   652.2500,   6057.750,    504.000,    0 !   !END!  GR_R0197
DSC0212 ! X =   652.3000,   6057.750,    503.205,    0 !   !END!  GR_R0198
DSC0213 ! X =   652.3500,   6057.750,    505.900,    0 !   !END!  GR_R0199
DSC0214 ! X =   652.4000,   6057.750,    494.018,    0 !   !END!  GR_R0200
DSC0215 ! X =   652.4500,   6057.750,    487.142,    0 !   !END!  GR_R0201
DSC0216 ! X =   652.5000,   6057.750,    484.499,    0 !   !END!  GR_R0202
DSC0217 ! X =   652.5500,   6057.750,    482.856,    0 !   !END!  GR_R0203
DSC0218 ! X =   652.6000,   6057.750,    480.366,    0 !   !END!  GR_R0204
DSC0219 ! X =   652.6500,   6057.750,    477.528,    0 !   !END!  GR_R0205
DSC0220 ! X =   652.7000,   6057.750,    474.601,    0 !   !END!  GR_R0206
DSC0221 ! X =   652.7500,   6057.750,    471.150,    0 !   !END!  GR_R0207
DSC0222 ! X =   652.8000,   6057.750,    466.299,    0 !   !END!  GR_R0208
DSC0223 ! X =   652.8500,   6057.750,    461.006,    0 !   !END!  GR_R0209
DSC0224 ! X =   652.9000,   6057.750,    461.000,    0 !   !END!  GR_R0210
DSC0225 ! X =   651.9000,   6057.800,    500.526,    0 !   !END!  GR_R0211
DSC0226 ! X =   651.9500,   6057.800,    501.454,    0 !   !END!  GR_R0212
DSC0227 ! X =   652.0000,   6057.800,    502.368,    0 !   !END!  GR_R0213
DSC0228 ! X =   652.0500,   6057.800,    503.000,    0 !   !END!  GR_R0214
DSC0229 ! X =   652.1000,   6057.800,    503.238,    0 !   !END!  GR_R0215
DSC0230 ! X =   652.1500,   6057.800,    504.000,    0 !   !END!  GR_R0216
DSC0231 ! X =   652.2000,   6057.800,    504.094,    0 !   !END!  GR_R0217
DSC0232 ! X =   652.2500,   6057.800,    502.988,    0 !   !END!  GR_R0218
DSC0233 ! X =   652.3000,   6057.800,    505.900,    0 !   !END!  GR_R0219
DSC0234 ! X =   652.3500,   6057.800,    505.900,    0 !   !END!  GR_R0220
DSC0235 ! X =   652.4500,   6057.800,    484.862,    0 !   !END!  GR_R0221
DSC0236 ! X =   652.5000,   6057.800,    482.342,    0 !   !END!  GR_R0222
DSC0237 ! X =   652.5500,   6057.800,    481.067,    0 !   !END!  GR_R0223
DSC0238 ! X =   652.6000,   6057.800,    478.933,    0 !   !END!  GR_R0224
DSC0239 ! X =   652.6500,   6057.800,    475.021,    0 !   !END!  GR_R0225
DSC0240 ! X =   652.7000,   6057.800,    470.897,    0 !   !END!  GR_R0226
DSC0241 ! X =   652.7500,   6057.800,    466.715,    0 !   !END!  GR_R0227
DSC0242 ! X =   652.8000,   6057.800,    462.358,    0 !   !END!  GR_R0228
DSC0243 ! X =   652.8500,   6057.800,    461.000,    0 !   !END!  GR_R0229
DSC0244 ! X =   652.9000,   6057.800,    461.000,    0 !   !END!  GR_R0230
DSC0245 ! X =   651.9000,   6057.850,    502.682,    0 !   !END!  GR_R0231
DSC0246 ! X =   651.9500,   6057.850,    502.610,    0 !   !END!  GR_R0232
DSC0247 ! X =   652.0000,   6057.850,    503.000,    0 !   !END!  GR_R0233
DSC0248 ! X =   652.0500,   6057.850,    503.466,    0 !   !END!  GR_R0234
DSC0249 ! X =   652.1000,   6057.850,    503.290,    0 !   !END!  GR_R0235
DSC0250 ! X =   652.1500,   6057.850,    503.755,    0 !   !END!  GR_R0236
DSC0251 ! X =   652.2000,   6057.850,    505.000,    0 !   !END!  GR_R0237
DSC0252 ! X =   652.2500,   6057.850,    505.900,    0 !   !END!  GR_R0238
DSC0253 ! X =   652.3000,   6057.850,    505.900,    0 !   !END!  GR_R0239
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DSC0254 ! X =   652.3500,   6057.850,    505.900,    0 !   !END!  GR_R0240
DSC0255 ! X =   652.4000,   6057.850,    486.451,    0 !   !END!  GR_R0241
DSC0256 ! X =   652.4500,   6057.850,    483.054,    0 !   !END!  GR_R0242
DSC0257 ! X =   652.5000,   6057.850,    480.939,    0 !   !END!  GR_R0243
DSC0258 ! X =   652.5500,   6057.850,    479.259,    0 !   !END!  GR_R0244
DSC0259 ! X =   652.6000,   6057.850,    476.653,    0 !   !END!  GR_R0245
DSC0260 ! X =   652.6500,   6057.850,    471.540,    0 !   !END!  GR_R0246
DSC0261 ! X =   652.7000,   6057.850,    465.265,    0 !   !END!  GR_R0247
DSC0262 ! X =   652.7500,   6057.850,    462.199,    0 !   !END!  GR_R0248
DSC0263 ! X =   652.8000,   6057.850,    461.000,    0 !   !END!  GR_R0249
DSC0264 ! X =   652.8500,   6057.850,    461.000,    0 !   !END!  GR_R0250
DSC0265 ! X =   652.9000,   6057.850,    461.000,    0 !   !END!  GR_R0251
DSC0266 ! X =   651.9000,   6057.900,    503.837,    0 !   !END!  GR_R0252
DSC0267 ! X =   651.9500,   6057.900,    503.765,    0 !   !END!  GR_R0253
DSC0268 ! X =   652.0000,   6057.900,    504.000,    0 !   !END!  GR_R0254
DSC0269 ! X =   652.0500,   6057.900,    504.000,    0 !   !END!  GR_R0255
DSC0270 ! X =   652.1000,   6057.900,    502.451,    0 !   !END!  GR_R0256
DSC0271 ! X =   652.1500,   6057.900,    502.885,    0 !   !END!  GR_R0257
DSC0272 ! X =   652.2000,   6057.900,    505.900,    0 !   !END!  GR_R0258
DSC0273 ! X =   652.2500,   6057.900,    505.900,    0 !   !END!  GR_R0259
DSC0274 ! X =   652.3000,   6057.900,    505.900,    0 !   !END!  GR_R0260
DSC0275 ! X =   652.3500,   6057.900,    490.555,    0 !   !END!  GR_R0261
DSC0276 ! X =   652.4000,   6057.900,    485.058,    0 !   !END!  GR_R0262
DSC0277 ! X =   652.4500,   6057.900,    481.302,    0 !   !END!  GR_R0263
DSC0278 ! X =   652.5000,   6057.900,    478.659,    0 !   !END!  GR_R0264
DSC0279 ! X =   652.5500,   6057.900,    477.104,    0 !   !END!  GR_R0265
DSC0280 ! X =   652.6000,   6057.900,    473.711,    0 !   !END!  GR_R0266
DSC0281 ! X =   652.6500,   6057.900,    466.069,    0 !   !END!  GR_R0267
DSC0282 ! X =   652.7000,   6057.900,    461.000,    0 !   !END!  GR_R0268
DSC0283 ! X =   652.7500,   6057.900,    461.000,    0 !   !END!  GR_R0269
DSC0284 ! X =   652.8000,   6057.900,    461.000,    0 !   !END!  GR_R0270
DSC0285 ! X =   652.8500,   6057.900,    461.000,    0 !   !END!  GR_R0271
DSC0286 ! X =   652.9000,   6057.900,    461.000,    0 !   !END!  GR_R0272
DSC0287 ! X =   651.9000,   6057.950,    504.000,    0 !   !END!  GR_R0273
DSC0288 ! X =   651.9500,   6057.950,    504.000,    0 !   !END!  GR_R0274
DSC0289 ! X =   652.0000,   6057.950,    504.000,    0 !   !END!  GR_R0275
DSC0290 ! X =   652.0500,   6057.950,    503.989,    0 !   !END!  GR_R0276
DSC0291 ! X =   652.1000,   6057.950,    502.476,    0 !   !END!  GR_R0277
DSC0292 ! X =   652.1500,   6057.950,    499.898,    0 !   !END!  GR_R0278
DSC0293 ! X =   652.2000,   6057.950,    505.900,    0 !   !END!  GR_R0279
DSC0294 ! X =   652.2500,   6057.950,    505.900,    0 !   !END!  GR_R0280
DSC0295 ! X =   652.3000,   6057.950,    492.546,    0 !   !END!  GR_R0281
DSC0296 ! X =   652.3500,   6057.950,    489.314,    0 !   !END!  GR_R0282
DSC0297 ! X =   652.4000,   6057.950,    483.915,    0 !   !END!  GR_R0283
DSC0298 ! X =   652.4500,   6057.950,    479.218,    0 !   !END!  GR_R0284
DSC0299 ! X =   652.5000,   6057.950,    476.877,    0 !   !END!  GR_R0285
DSC0300 ! X =   652.5500,   6057.950,    474.736,    0 !   !END!  GR_R0286
DSC0301 ! X =   652.6000,   6057.950,    469.275,    0 !   !END!  GR_R0287
DSC0302 ! X =   652.6500,   6057.950,    461.099,    0 !   !END!  GR_R0288
DSC0303 ! X =   652.7000,   6057.950,    461.000,    0 !   !END!  GR_R0289
DSC0304 ! X =   652.7500,   6057.950,    461.758,    0 !   !END!  GR_R0290
DSC0305 ! X =   652.8000,   6057.950,    461.686,    0 !   !END!  GR_R0291
DSC0306 ! X =   652.8500,   6057.950,    461.000,    0 !   !END!  GR_R0292
DSC0307 ! X =   652.9000,   6057.950,    461.000,    0 !   !END!  GR_R0293
DSC0308 ! X =   651.9000,   6058.000,    504.853,    0 !   !END!  GR_R0294
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DSC0309 ! X =   651.9500,   6058.000,    505.000,    0 !   !END!  GR_R0295
DSC0310 ! X =   652.0000,   6058.000,    505.000,    0 !   !END!  GR_R0296
DSC0311 ! X =   652.0500,   6058.000,    504.000,    0 !   !END!  GR_R0297
DSC0312 ! X =   652.1000,   6058.000,    504.000,    0 !   !END!  GR_R0298
DSC0313 ! X =   652.1500,   6058.000,    505.900,    0 !   !END!  GR_R0299
DSC0314 ! X =   652.2000,   6058.000,    505.900,    0 !   !END!  GR_R0300
DSC0315 ! X =   652.2500,   6058.000,    492.640,    0 !   !END!  GR_R0301
DSC0316 ! X =   652.3000,   6058.000,    488.110,    0 !   !END!  GR_R0302
DSC0317 ! X =   652.3500,   6058.000,    486.301,    0 !   !END!  GR_R0303
DSC0318 ! X =   652.4000,   6058.000,    481.386,    0 !   !END!  GR_R0304
DSC0319 ! X =   652.4500,   6058.000,    477.742,    0 !   !END!  GR_R0305
DSC0320 ! X =   652.5000,   6058.000,    474.548,    0 !   !END!  GR_R0306
DSC0321 ! X =   652.5500,   6058.000,    471.386,    0 !   !END!  GR_R0307
DSC0322 ! X =   652.6000,   6058.000,    464.534,    0 !   !END!  GR_R0308
DSC0323 ! X =   652.6500,   6058.000,    461.000,    0 !   !END!  GR_R0309
DSC0324 ! X =   652.7000,   6058.000,    462.000,    0 !   !END!  GR_R0310
DSC0325 ! X =   652.7500,   6058.000,    462.000,    0 !   !END!  GR_R0311
DSC0326 ! X =   652.8000,   6058.000,    462.000,    0 !   !END!  GR_R0312
DSC0327 ! X =   652.8500,   6058.000,    461.854,    0 !   !END!  GR_R0313
DSC0328 ! X =   652.9000,   6058.000,    461.000,    0 !   !END!  GR_R0314
DSC0329 ! X =   651.9000,   6058.050,    504.000,    0 !   !END!  GR_R0315
DSC0330 ! X =   651.9500,   6058.050,    504.670,    0 !   !END!  GR_R0316
DSC0331 ! X =   652.0000,   6058.050,    504.907,    0 !   !END!  GR_R0317
DSC0332 ! X =   652.0500,   6058.050,    502.974,    0 !   !END!  GR_R0318
DSC0333 ! X =   652.1000,   6058.050,    505.900,    0 !   !END!  GR_R0319
DSC0334 ! X =   652.1500,   6058.050,    505.900,    0 !   !END!  GR_R0320
DSC0335 ! X =   652.2000,   6058.050,    505.900,    0 !   !END!  GR_R0321
DSC0336 ! X =   652.2500,   6058.050,    487.908,    0 !   !END!  GR_R0322
DSC0337 ! X =   652.3000,   6058.050,    484.557,    0 !   !END!  GR_R0323
DSC0338 ! X =   652.3500,   6058.050,    482.099,    0 !   !END!  GR_R0324
DSC0339 ! X =   652.4000,   6058.050,    478.528,    0 !   !END!  GR_R0325
DSC0340 ! X =   652.4500,   6058.050,    475.462,    0 !   !END!  GR_R0326
DSC0341 ! X =   652.5000,   6058.050,    471.819,    0 !   !END!  GR_R0327
DSC0342 ! X =   652.5500,   6058.050,    467.714,    0 !   !END!  GR_R0328
DSC0343 ! X =   652.6000,   6058.050,    461.000,    0 !   !END!  GR_R0329
DSC0344 ! X =   652.6500,   6058.050,    461.920,    0 !   !END!  GR_R0330
DSC0345 ! X =   652.7000,   6058.050,    462.086,    0 !   !END!  GR_R0331
DSC0346 ! X =   652.7500,   6058.050,    463.000,    0 !   !END!  GR_R0332
DSC0347 ! X =   652.8000,   6058.050,    463.000,    0 !   !END!  GR_R0333
DSC0348 ! X =   652.8500,   6058.050,    462.000,    0 !   !END!  GR_R0334
DSC0349 ! X =   652.9000,   6058.050,    461.000,    0 !   !END!  GR_R0335
DSC0350 ! X =   651.9000,   6058.100,    503.391,    0 !   !END!  GR_R0336
DSC0351 ! X =   651.9500,   6058.100,    503.998,    0 !   !END!  GR_R0337
DSC0352 ! X =   652.0000,   6058.100,    504.199,    0 !   !END!  GR_R0338
DSC0353 ! X =   652.0500,   6058.100,    505.900,    0 !   !END!  GR_R0339
DSC0354 ! X =   652.1000,   6058.100,    505.900,    0 !   !END!  GR_R0340
DSC0355 ! X =   652.1500,   6058.100,    505.900,    0 !   !END!  GR_R0341
DSC0356 ! X =   652.2000,   6058.100,    488.424,    0 !   !END!  GR_R0342
DSC0357 ! X =   652.2500,   6058.100,    484.484,    0 !   !END!  GR_R0343
DSC0358 ! X =   652.3000,   6058.100,    481.118,    0 !   !END!  GR_R0344
DSC0359 ! X =   652.3500,   6058.100,    478.469,    0 !   !END!  GR_R0345
DSC0360 ! X =   652.4000,   6058.100,    475.416,    0 !   !END!  GR_R0346
DSC0361 ! X =   652.4500,   6058.100,    473.182,    0 !   !END!  GR_R0347
DSC0362 ! X =   652.5000,   6058.100,    469.539,    0 !   !END!  GR_R0348
DSC0363 ! X =   652.5500,   6058.100,    465.379,    0 !   !END!  GR_R0349
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DSC0364 ! X =   652.6000,   6058.100,    461.000,    0 !   !END!  GR_R0350
DSC0365 ! X =   652.6500,   6058.100,    462.000,    0 !   !END!  GR_R0351
DSC0366 ! X =   652.7000,   6058.100,    463.000,    0 !   !END!  GR_R0352
DSC0367 ! X =   652.7500,   6058.100,    463.000,    0 !   !END!  GR_R0353
DSC0368 ! X =   652.8000,   6058.100,    463.000,    0 !   !END!  GR_R0354
DSC0369 ! X =   652.8500,   6058.100,    462.000,    0 !   !END!  GR_R0355
DSC0370 ! X =   652.9000,   6058.100,    461.000,    0 !   !END!  GR_R0356
DSC0371 ! X =   651.9000,   6058.150,    501.982,    0 !   !END!  GR_R0357
DSC0372 ! X =   651.9500,   6058.150,    502.579,    0 !   !END!  GR_R0358
DSC0373 ! X =   652.0000,   6058.150,    505.900,    0 !   !END!  GR_R0359
DSC0374 ! X =   652.0500,   6058.150,    505.900,    0 !   !END!  GR_R0360
DSC0375 ! X =   652.1000,   6058.150,    505.900,    0 !   !END!  GR_R0361
DSC0376 ! X =   652.1500,   6058.150,    490.509,    0 !   !END!  GR_R0362
DSC0377 ! X =   652.2000,   6058.150,    488.000,    0 !   !END!  GR_R0363
DSC0378 ! X =   652.2500,   6058.150,    482.480,    0 !   !END!  GR_R0364
DSC0379 ! X =   652.3000,   6058.150,    477.837,    0 !   !END!  GR_R0365
DSC0380 ! X =   652.3500,   6058.150,    475.189,    0 !   !END!  GR_R0366
DSC0381 ! X =   652.4000,   6058.150,    472.546,    0 !   !END!  GR_R0367
DSC0382 ! X =   652.4500,   6058.150,    469.954,    0 !   !END!  GR_R0368
DSC0383 ! X =   652.5000,   6058.150,    466.259,    0 !   !END!  GR_R0369
DSC0384 ! X =   652.5500,   6058.150,    461.944,    0 !   !END!  GR_R0370
DSC0385 ! X =   652.6000,   6058.150,    461.259,    0 !   !END!  GR_R0371
DSC0386 ! X =   652.6500,   6058.150,    462.593,    0 !   !END!  GR_R0372
DSC0387 ! X =   652.7000,   6058.150,    463.389,    0 !   !END!  GR_R0373
DSC0388 ! X =   652.7500,   6058.150,    464.000,    0 !   !END!  GR_R0374
DSC0389 ! X =   652.8000,   6058.150,    463.797,    0 !   !END!  GR_R0375
DSC0390 ! X =   652.8500,   6058.150,    462.000,    0 !   !END!  GR_R0376
DSC0391 ! X =   652.9000,   6058.150,    461.000,    0 !   !END!  GR_R0377
DSC0392 ! X =   651.9000,   6058.200,    500.832,    0 !   !END!  GR_R0378
DSC0393 ! X =   651.9500,   6058.200,    505.900,    0 !   !END!  GR_R0379
DSC0394 ! X =   652.0500,   6058.200,    505.900,    0 !   !END!  GR_R0380
DSC0395 ! X =   652.1000,   6058.200,    489.125,    0 !   !END!  GR_R0381
DSC0396 ! X =   652.1500,   6058.200,    487.194,    0 !   !END!  GR_R0382
DSC0397 ! X =   652.2000,   6058.200,    484.843,    0 !   !END!  GR_R0383
DSC0398 ! X =   652.2500,   6058.200,    480.200,    0 !   !END!  GR_R0384
DSC0399 ! X =   652.3000,   6058.200,    475.557,    0 !   !END!  GR_R0385
DSC0400 ! X =   652.3500,   6058.200,    472.021,    0 !   !END!  GR_R0386
DSC0401 ! X =   652.4000,   6058.200,    470.266,    0 !   !END!  GR_R0387
DSC0402 ! X =   652.4500,   6058.200,    467.622,    0 !   !END!  GR_R0388
DSC0403 ! X =   652.5000,   6058.200,    463.967,    0 !   !END!  GR_R0389
DSC0404 ! X =   652.5500,   6058.200,    461.000,    0 !   !END!  GR_R0390
DSC0405 ! X =   652.6000,   6058.200,    462.000,    0 !   !END!  GR_R0391
DSC0406 ! X =   652.6500,   6058.200,    463.000,    0 !   !END!  GR_R0392
DSC0407 ! X =   652.7000,   6058.200,    464.000,    0 !   !END!  GR_R0393
DSC0408 ! X =   652.7500,   6058.200,    464.534,    0 !   !END!  GR_R0394
DSC0409 ! X =   652.8000,   6058.200,    464.000,    0 !   !END!  GR_R0395
DSC0410 ! X =   652.8500,   6058.200,    462.916,    0 !   !END!  GR_R0396
DSC0411 ! X =   652.9000,   6058.200,    461.047,    0 !   !END!  GR_R0397
DSC0412 ! X =   651.9000,   6058.250,    499.795,    0 !   !END!  GR_R0398
DSC0413 ! X =   651.9500,   6058.250,    505.900,    0 !   !END!  GR_R0399
DSC0414 ! X =   652.0000,   6058.250,    493.442,    0 !   !END!  GR_R0400
DSC0415 ! X =   652.0500,   6058.250,    490.786,    0 !   !END!  GR_R0401
DSC0416 ! X =   652.1000,   6058.250,    486.845,    0 !   !END!  GR_R0402
DSC0417 ! X =   652.1500,   6058.250,    483.779,    0 !   !END!  GR_R0403
DSC0418 ! X =   652.2000,   6058.250,    481.077,    0 !   !END!  GR_R0404
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DSC0419 ! X =   652.2500,   6058.250,    477.506,    0 !   !END!  GR_R0405
DSC0420 ! X =   652.3000,   6058.250,    473.277,    0 !   !END!  GR_R0406
DSC0421 ! X =   652.3500,   6058.250,    470.629,    0 !   !END!  GR_R0407
DSC0422 ! X =   652.4000,   6058.250,    467.986,    0 !   !END!  GR_R0408
DSC0423 ! X =   652.4500,   6058.250,    465.342,    0 !   !END!  GR_R0409
DSC0424 ! X =   652.5000,   6058.250,    461.754,    0 !   !END!  GR_R0410
DSC0425 ! X =   652.5500,   6058.250,    461.000,    0 !   !END!  GR_R0411
DSC0426 ! X =   652.6000,   6058.250,    462.621,    0 !   !END!  GR_R0412
DSC0427 ! X =   652.6500,   6058.250,    463.900,    0 !   !END!  GR_R0413
DSC0428 ! X =   652.7000,   6058.250,    465.000,    0 !   !END!  GR_R0414
DSC0429 ! X =   652.7500,   6058.250,    465.000,    0 !   !END!  GR_R0415
DSC0430 ! X =   652.8000,   6058.250,    464.791,    0 !   !END!  GR_R0416
DSC0431 ! X =   652.8500,   6058.250,    463.000,    0 !   !END!  GR_R0417
DSC0432 ! X =   652.9000,   6058.250,    462.000,    0 !   !END!  GR_R0418
DSC0433 ! X =   651.9000,   6058.300,    496.285,    0 !   !END!  GR_R0419
DSC0434 ! X =   651.9500,   6058.300,    490.990,    0 !   !END!  GR_R0420
DSC0435 ! X =   652.0000,   6058.300,    489.131,    0 !   !END!  GR_R0421
DSC0436 ! X =   652.0500,   6058.300,    488.148,    0 !   !END!  GR_R0422
DSC0437 ! X =   652.1000,   6058.300,    484.570,    0 !   !END!  GR_R0423
DSC0438 ! X =   652.1500,   6058.300,    481.030,    0 !   !END!  GR_R0424
DSC0439 ! X =   652.2000,   6058.300,    477.615,    0 !   !END!  GR_R0425
DSC0440 ! X =   652.2500,   6058.300,    474.430,    0 !   !END!  GR_R0426
DSC0441 ! X =   652.3000,   6058.300,    471.748,    0 !   !END!  GR_R0427
DSC0442 ! X =   652.3500,   6058.300,    468.904,    0 !   !END!  GR_R0428
DSC0443 ! X =   652.4000,   6058.300,    466.706,    0 !   !END!  GR_R0429
DSC0444 ! X =   652.4500,   6058.300,    464.247,    0 !   !END!  GR_R0430
DSC0445 ! X =   652.5000,   6058.300,    461.000,    0 !   !END!  GR_R0431
DSC0446 ! X =   652.5500,   6058.300,    462.000,    0 !   !END!  GR_R0432
DSC0447 ! X =   652.6000,   6058.300,    463.000,    0 !   !END!  GR_R0433
DSC0448 ! X =   652.6500,   6058.300,    464.516,    0 !   !END!  GR_R0434
DSC0449 ! X =   652.7000,   6058.300,    465.917,    0 !   !END!  GR_R0435
DSC0450 ! X =   652.7500,   6058.300,    466.000,    0 !   !END!  GR_R0436
DSC0451 ! X =   652.8000,   6058.300,    465.000,    0 !   !END!  GR_R0437
DSC0452 ! X =   652.8500,   6058.300,    463.000,    0 !   !END!  GR_R0438
DSC0453 ! X =   652.9000,   6058.300,    462.000,    0 !   !END!  GR_R0439
DSC0454 ! X =   651.5000,   6057.700,    488.000,    0 !   !END!  GR_R0440
DSC0455 ! X =   651.5500,   6057.700,    490.990,    0 !   !END!  GR_R0441
DSC0456 ! X =   651.6000,   6057.700,    493.639,    0 !   !END!  GR_R0442
DSC0457 ! X =   651.6500,   6057.700,    494.576,    0 !   !END!  GR_R0443
DSC0458 ! X =   651.7000,   6057.700,    494.504,    0 !   !END!  GR_R0444
DSC0459 ! X =   651.7500,   6057.700,    493.805,    0 !   !END!  GR_R0445
DSC0460 ! X =   651.8000,   6057.700,    492.720,    0 !   !END!  GR_R0446
DSC0461 ! X =   651.8500,   6057.700,    493.576,    0 !   !END!  GR_R0447
DSC0462 ! X =   651.5000,   6057.750,    487.036,    0 !   !END!  GR_R0448
DSC0463 ! X =   651.5500,   6057.750,    491.395,    0 !   !END!  GR_R0449
DSC0464 ! X =   651.6000,   6057.750,    495.089,    0 !   !END!  GR_R0450
DSC0465 ! X =   651.6500,   6057.750,    496.731,    0 !   !END!  GR_R0451
DSC0466 ! X =   651.7000,   6057.750,    497.019,    0 !   !END!  GR_R0452
DSC0467 ! X =   651.7500,   6057.750,    497.174,    0 !   !END!  GR_R0453
DSC0468 ! X =   651.8000,   6057.750,    497.030,    0 !   !END!  GR_R0454
DSC0469 ! X =   651.8500,   6057.750,    497.443,    0 !   !END!  GR_R0455
DSC0470 ! X =   651.5000,   6057.800,    490.287,    0 !   !END!  GR_R0456
DSC0471 ! X =   651.5500,   6057.800,    494.085,    0 !   !END!  GR_R0457
DSC0472 ! X =   651.6000,   6057.800,    497.194,    0 !   !END!  GR_R0458
DSC0473 ! X =   651.6500,   6057.800,    498.886,    0 !   !END!  GR_R0459
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DSC0474 ! X =   651.7000,   6057.800,    499.480,    0 !   !END!  GR_R0460
DSC0475 ! X =   651.7500,   6057.800,    499.742,    0 !   !END!  GR_R0461
DSC0476 ! X =   651.8000,   6057.800,    500.670,    0 !   !END!  GR_R0462
DSC0477 ! X =   651.8500,   6057.800,    501.197,    0 !   !END!  GR_R0463
DSC0478 ! X =   651.5000,   6057.850,    495.773,    0 !   !END!  GR_R0464
DSC0479 ! X =   651.5500,   6057.850,    497.896,    0 !   !END!  GR_R0465
DSC0480 ! X =   651.6000,   6057.850,    500.114,    0 !   !END!  GR_R0466
DSC0481 ! X =   651.6500,   6057.850,    501.042,    0 !   !END!  GR_R0467
DSC0482 ! X =   651.7000,   6057.850,    501.760,    0 !   !END!  GR_R0468
DSC0483 ! X =   651.7500,   6057.850,    502.408,    0 !   !END!  GR_R0469
DSC0484 ! X =   651.8000,   6057.850,    502.865,    0 !   !END!  GR_R0470
DSC0485 ! X =   651.8500,   6057.850,    503.754,    0 !   !END!  GR_R0471
DSC0486 ! X =   651.5000,   6057.900,    501.771,    0 !   !END!  GR_R0472
DSC0487 ! X =   651.5500,   6057.900,    501.682,    0 !   !END!  GR_R0473
DSC0488 ! X =   651.6000,   6057.900,    502.269,    0 !   !END!  GR_R0474
DSC0489 ! X =   651.6500,   6057.900,    503.000,    0 !   !END!  GR_R0475
DSC0490 ! X =   651.7000,   6057.900,    503.114,    0 !   !END!  GR_R0476
DSC0491 ! X =   651.7500,   6057.900,    504.000,    0 !   !END!  GR_R0477
DSC0492 ! X =   651.8000,   6057.900,    504.000,    0 !   !END!  GR_R0478
DSC0493 ! X =   651.8500,   6057.900,    504.000,    0 !   !END!  GR_R0479
DSC0494 ! X =   651.5000,   6057.950,    504.389,    0 !   !END!  GR_R0480
DSC0495 ! X =   651.5500,   6057.950,    504.390,    0 !   !END!  GR_R0481
DSC0496 ! X =   651.6000,   6057.950,    504.000,    0 !   !END!  GR_R0482
DSC0497 ! X =   651.6500,   6057.950,    504.000,    0 !   !END!  GR_R0483
DSC0498 ! X =   651.7000,   6057.950,    504.011,    0 !   !END!  GR_R0484
DSC0499 ! X =   651.7500,   6057.950,    504.806,    0 !   !END!  GR_R0485
DSC0500 ! X =   651.8000,   6057.950,    505.000,    0 !   !END!  GR_R0486
DSC0501 ! X =   651.8500,   6057.950,    505.000,    0 !   !END!  GR_R0487
DSC0502 ! X =   651.5000,   6058.000,    505.723,    0 !   !END!  GR_R0488
DSC0503 ! X =   651.5500,   6058.000,    505.639,    0 !   !END!  GR_R0489
DSC0504 ! X =   651.6000,   6058.000,    505.000,    0 !   !END!  GR_R0490
DSC0505 ! X =   651.6500,   6058.000,    504.729,    0 !   !END!  GR_R0491
DSC0506 ! X =   651.7000,   6058.000,    505.000,    0 !   !END!  GR_R0492
DSC0507 ! X =   651.7500,   6058.000,    505.000,    0 !   !END!  GR_R0493
DSC0508 ! X =   651.8000,   6058.000,    505.116,    0 !   !END!  GR_R0494
DSC0509 ! X =   651.8500,   6058.000,    505.000,    0 !   !END!  GR_R0495
DSC0510 ! X =   651.5000,   6058.050,    506.506,    0 !   !END!  GR_R0496
DSC0511 ! X =   651.5500,   6058.050,    506.000,    0 !   !END!  GR_R0497
DSC0512 ! X =   651.6000,   6058.050,    505.103,    0 !   !END!  GR_R0498
DSC0513 ! X =   651.6500,   6058.050,    505.000,    0 !   !END!  GR_R0499
DSC0514 ! X =   651.7000,   6058.050,    505.000,    0 !   !END!  GR_R0500
DSC0515 ! X =   651.7500,   6058.050,    506.000,    0 !   !END!  GR_R0501
DSC0516 ! X =   651.8000,   6058.050,    505.280,    0 !   !END!  GR_R0502
DSC0517 ! X =   651.8500,   6058.050,    505.000,    0 !   !END!  GR_R0503
DSC0518 ! X =   651.5000,   6058.100,    507.000,    0 !   !END!  GR_R0504
DSC0519 ! X =   651.5500,   6058.100,    506.000,    0 !   !END!  GR_R0505
DSC0520 ! X =   651.6000,   6058.100,    506.000,    0 !   !END!  GR_R0506
DSC0521 ! X =   651.6500,   6058.100,    505.000,    0 !   !END!  GR_R0507
DSC0522 ! X =   651.7000,   6058.100,    505.414,    0 !   !END!  GR_R0508
DSC0523 ! X =   651.7500,   6058.100,    506.000,    0 !   !END!  GR_R0509
DSC0524 ! X =   651.8000,   6058.100,    505.062,    0 !   !END!  GR_R0510
DSC0525 ! X =   651.8500,   6058.100,    504.701,    0 !   !END!  GR_R0511
DSC0526 ! X =   651.5000,   6058.150,    507.000,    0 !   !END!  GR_R0512
DSC0527 ! X =   651.5500,   6058.150,    506.000,    0 !   !END!  GR_R0513
DSC0528 ! X =   651.6000,   6058.150,    505.000,    0 !   !END!  GR_R0514
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DSC0529 ! X =   651.6500,   6058.150,    505.000,    0 !   !END!  GR_R0515
DSC0530 ! X =   651.7000,   6058.150,    505.000,    0 !   !END!  GR_R0516
DSC0531 ! X =   651.7500,   6058.150,    506.000,    0 !   !END!  GR_R0517
DSC0532 ! X =   651.8000,   6058.150,    505.000,    0 !   !END!  GR_R0518
DSC0533 ! X =   651.8500,   6058.150,    504.000,    0 !   !END!  GR_R0519
DSC0534 ! X =   651.5000,   6058.200,    506.132,    0 !   !END!  GR_R0520
DSC0535 ! X =   651.5500,   6058.200,    506.000,    0 !   !END!  GR_R0521
DSC0536 ! X =   651.6000,   6058.200,    505.000,    0 !   !END!  GR_R0522
DSC0537 ! X =   651.6500,   6058.200,    505.000,    0 !   !END!  GR_R0523
DSC0538 ! X =   651.7000,   6058.200,    505.000,    0 !   !END!  GR_R0524
DSC0539 ! X =   651.7500,   6058.200,    505.000,    0 !   !END!  GR_R0525
DSC0540 ! X =   651.8000,   6058.200,    505.000,    0 !   !END!  GR_R0526
DSC0541 ! X =   651.8500,   6058.200,    504.000,    0 !   !END!  GR_R0527
DSC0542 ! X =   651.5000,   6058.250,    506.000,    0 !   !END!  GR_R0528
DSC0543 ! X =   651.5500,   6058.250,    505.207,    0 !   !END!  GR_R0529
DSC0544 ! X =   651.6000,   6058.250,    504.874,    0 !   !END!  GR_R0530
DSC0545 ! X =   651.6500,   6058.250,    504.000,    0 !   !END!  GR_R0531
DSC0546 ! X =   651.7000,   6058.250,    504.000,    0 !   !END!  GR_R0532
DSC0547 ! X =   651.7500,   6058.250,    504.861,    0 !   !END!  GR_R0533
DSC0548 ! X =   651.8000,   6058.250,    504.000,    0 !   !END!  GR_R0534
DSC0549 ! X =   651.8500,   6058.250,    503.070,    0 !   !END!  GR_R0535
DSC0550 ! X =   651.5000,   6058.300,    505.329,    0 !   !END!  GR_R0536
DSC0551 ! X =   651.5500,   6058.300,    505.000,    0 !   !END!  GR_R0537
DSC0552 ! X =   651.6000,   6058.300,    504.000,    0 !   !END!  GR_R0538
DSC0553 ! X =   651.6500,   6058.300,    503.000,    0 !   !END!  GR_R0539
DSC0554 ! X =   651.7000,   6058.300,    503.547,    0 !   !END!  GR_R0540
DSC0555 ! X =   651.7500,   6058.300,    503.706,    0 !   !END!  GR_R0541
DSC0556 ! X =   651.8000,   6058.300,    502.778,    0 !   !END!  GR_R0542
DSC0557 ! X =   651.8500,   6058.300,    501.649,    0 !   !END!  GR_R0543
DSC0558 ! X =   651.5000,   6058.350,    505.000,    0 !   !END!  GR_R0544
DSC0559 ! X =   651.5500,   6058.350,    505.000,    0 !   !END!  GR_R0545
DSC0560 ! X =   651.6000,   6058.350,    504.000,    0 !   !END!  GR_R0546
DSC0561 ! X =   651.6500,   6058.350,    501.811,    0 !   !END!  GR_R0547
DSC0562 ! X =   651.7000,   6058.350,    499.957,    0 !   !END!  GR_R0548
DSC0563 ! X =   651.7500,   6058.350,    500.965,    0 !   !END!  GR_R0549
DSC0564 ! X =   651.8000,   6058.350,    500.445,    0 !   !END!  GR_R0550
DSC0565 ! X =   651.8500,   6058.350,    498.510,    0 !   !END!  GR_R0551
DSC0566 ! X =   651.9000,   6058.350,    492.958,    0 !   !END!  GR_R0552
DSC0567 ! X =   651.9500,   6058.350,    487.900,    0 !   !END!  GR_R0553
DSC0568 ! X =   652.0000,   6058.350,    486.910,    0 !   !END!  GR_R0554
DSC0569 ! X =   652.0500,   6058.350,    484.982,    0 !   !END!  GR_R0555
DSC0570 ! X =   652.1000,   6058.350,    482.290,    0 !   !END!  GR_R0556
DSC0571 ! X =   652.1500,   6058.350,    479.068,    0 !   !END!  GR_R0557
DSC0572 ! X =   652.2000,   6058.350,    475.003,    0 !   !END!  GR_R0558
DSC0573 ! X =   652.2500,   6058.350,    472.000,    0 !   !END!  GR_R0559
DSC0574 ! X =   652.3000,   6058.350,    470.365,    0 !   !END!  GR_R0560
DSC0575 ! X =   652.3500,   6058.350,    468.000,    0 !   !END!  GR_R0561
DSC0576 ! X =   652.4000,   6058.350,    465.934,    0 !   !END!  GR_R0562
DSC0577 ! X =   652.4500,   6058.350,    463.219,    0 !   !END!  GR_R0563
DSC0578 ! X =   652.5000,   6058.350,    462.000,    0 !   !END!  GR_R0564
DSC0579 ! X =   651.5000,   6058.400,    504.000,    0 !   !END!  GR_R0565
DSC0580 ! X =   651.5500,   6058.400,    504.000,    0 !   !END!  GR_R0566
DSC0581 ! X =   651.6000,   6058.400,    504.223,    0 !   !END!  GR_R0567
DSC0582 ! X =   651.6500,   6058.400,    503.749,    0 !   !END!  GR_R0568
DSC0583 ! X =   651.7000,   6058.400,    499.403,    0 !   !END!  GR_R0569
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DSC0584 ! X =   651.7500,   6058.400,    497.322,    0 !   !END!  GR_R0570
DSC0585 ! X =   651.8000,   6058.400,    497.467,    0 !   !END!  GR_R0571
DSC0586 ! X =   651.8500,   6058.400,    496.230,    0 !   !END!  GR_R0572
DSC0587 ! X =   651.9000,   6058.400,    491.954,    0 !   !END!  GR_R0573
DSC0588 ! X =   651.9500,   6058.400,    488.081,    0 !   !END!  GR_R0574
DSC0589 ! X =   652.0000,   6058.400,    485.541,    0 !   !END!  GR_R0575
DSC0590 ! X =   652.0500,   6058.400,    483.658,    0 !   !END!  GR_R0576
DSC0591 ! X =   652.1000,   6058.400,    480.914,    0 !   !END!  GR_R0577
DSC0592 ! X =   652.1500,   6058.400,    477.390,    0 !   !END!  GR_R0578
DSC0593 ! X =   652.2000,   6058.400,    474.660,    0 !   !END!  GR_R0579
DSC0594 ! X =   652.2500,   6058.400,    471.960,    0 !   !END!  GR_R0580
DSC0595 ! X =   652.3000,   6058.400,    470.000,    0 !   !END!  GR_R0581
DSC0596 ! X =   652.3500,   6058.400,    467.525,    0 !   !END!  GR_R0582
DSC0597 ! X =   652.4000,   6058.400,    465.000,    0 !   !END!  GR_R0583
DSC0598 ! X =   652.4500,   6058.400,    463.039,    0 !   !END!  GR_R0584
DSC0599 ! X =   652.5000,   6058.400,    462.000,    0 !   !END!  GR_R0585
DSC0600 ! X =   651.5000,   6058.450,    503.880,    0 !   !END!  GR_R0586
DSC0601 ! X =   651.5500,   6058.450,    503.952,    0 !   !END!  GR_R0587
DSC0602 ! X =   651.6000,   6058.450,    504.856,    0 !   !END!  GR_R0588
DSC0603 ! X =   651.6500,   6058.450,    503.096,    0 !   !END!  GR_R0589
DSC0604 ! X =   651.7000,   6058.450,    497.722,    0 !   !END!  GR_R0590
DSC0605 ! X =   651.7500,   6058.450,    493.480,    0 !   !END!  GR_R0591
DSC0606 ! X =   651.8000,   6058.450,    494.312,    0 !   !END!  GR_R0592
DSC0607 ! X =   651.8500,   6058.450,    493.384,    0 !   !END!  GR_R0593
DSC0608 ! X =   651.9000,   6058.450,    491.386,    0 !   !END!  GR_R0594
DSC0609 ! X =   651.9500,   6058.450,    489.000,    0 !   !END!  GR_R0595
DSC0610 ! X =   652.0000,   6058.450,    485.416,    0 !   !END!  GR_R0596
DSC0611 ! X =   652.0500,   6058.450,    481.903,    0 !   !END!  GR_R0597
DSC0612 ! X =   652.1000,   6058.450,    478.995,    0 !   !END!  GR_R0598
DSC0613 ! X =   652.1500,   6058.450,    476.868,    0 !   !END!  GR_R0599
DSC0614 ! X =   652.2000,   6058.450,    474.000,    0 !   !END!  GR_R0600
DSC0615 ! X =   652.2500,   6058.450,    472.000,    0 !   !END!  GR_R0601
DSC0616 ! X =   652.3000,   6058.450,    469.148,    0 !   !END!  GR_R0602
DSC0617 ! X =   652.3500,   6058.450,    467.000,    0 !   !END!  GR_R0603
DSC0618 ! X =   652.4000,   6058.450,    464.685,    0 !   !END!  GR_R0604
DSC0619 ! X =   652.4500,   6058.450,    462.970,    0 !   !END!  GR_R0605
DSC0620 ! X =   652.5000,   6058.450,    462.000,    0 !   !END!  GR_R0606
DSC0621 ! X =   651.5000,   6058.500,    503.000,    0 !   !END!  GR_R0607
DSC0622 ! X =   651.5500,   6058.500,    502.797,    0 !   !END!  GR_R0608
DSC0623 ! X =   651.6000,   6058.500,    502.741,    0 !   !END!  GR_R0609
DSC0624 ! X =   651.6500,   6058.500,    498.148,    0 !   !END!  GR_R0610
DSC0625 ! X =   651.7000,   6058.500,    492.625,    0 !   !END!  GR_R0611
DSC0626 ! X =   651.7500,   6058.500,    490.287,    0 !   !END!  GR_R0612
DSC0627 ! X =   651.8000,   6058.500,    491.157,    0 !   !END!  GR_R0613
DSC0628 ! X =   651.8500,   6058.500,    490.670,    0 !   !END!  GR_R0614
DSC0629 ! X =   651.9000,   6058.500,    489.301,    0 !   !END!  GR_R0615
DSC0630 ! X =   651.9500,   6058.500,    488.002,    0 !   !END!  GR_R0616
DSC0631 ! X =   652.0000,   6058.500,    484.291,    0 !   !END!  GR_R0617
DSC0632 ! X =   652.0500,   6058.500,    480.797,    0 !   !END!  GR_R0618
DSC0633 ! X =   652.1000,   6058.500,    477.941,    0 !   !END!  GR_R0619
DSC0634 ! X =   652.1500,   6058.500,    475.713,    0 !   !END!  GR_R0620
DSC0635 ! X =   652.2000,   6058.500,    473.849,    0 !   !END!  GR_R0621
DSC0636 ! X =   652.2500,   6058.500,    471.710,    0 !   !END!  GR_R0622
DSC0637 ! X =   652.3000,   6058.500,    468.990,    0 !   !END!  GR_R0623
DSC0638 ! X =   652.3500,   6058.500,    466.275,    0 !   !END!  GR_R0624
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DSC0639 ! X =   652.4000,   6058.500,    464.560,    0 !   !END!  GR_R0625
DSC0640 ! X =   652.4500,   6058.500,    462.845,    0 !   !END!  GR_R0626
DSC0641 ! X =   652.5000,   6058.500,    462.000,    0 !   !END!  GR_R0627
DSC0642 ! X =   651.5000,   6058.550,    503.000,    0 !   !END!  GR_R0628
DSC0643 ! X =   651.5500,   6058.550,    501.861,    0 !   !END!  GR_R0629
DSC0644 ! X =   651.6000,   6058.550,    499.325,    0 !   !END!  GR_R0630
DSC0645 ! X =   651.6500,   6058.550,    492.936,    0 !   !END!  GR_R0631
DSC0646 ! X =   651.7000,   6058.550,    487.924,    0 !   !END!  GR_R0632
DSC0647 ! X =   651.7500,   6058.550,    487.947,    0 !   !END!  GR_R0633
DSC0648 ! X =   651.8000,   6058.550,    489.002,    0 !   !END!  GR_R0634
DSC0649 ! X =   651.8500,   6058.550,    488.390,    0 !   !END!  GR_R0635
DSC0650 ! X =   651.9000,   6058.550,    487.146,    0 !   !END!  GR_R0636
DSC0651 ! X =   651.9500,   6058.550,    486.099,    0 !   !END!  GR_R0637
DSC0652 ! X =   652.0000,   6058.550,    482.461,    0 !   !END!  GR_R0638
DSC0653 ! X =   652.0500,   6058.550,    479.165,    0 !   !END!  GR_R0639
DSC0654 ! X =   652.1000,   6058.550,    476.849,    0 !   !END!  GR_R0640
DSC0655 ! X =   652.1500,   6058.550,    474.518,    0 !   !END!  GR_R0641
DSC0656 ! X =   652.2000,   6058.550,    472.708,    0 !   !END!  GR_R0642
DSC0657 ! X =   652.2500,   6058.550,    470.857,    0 !   !END!  GR_R0643
DSC0658 ! X =   652.3000,   6058.550,    468.629,    0 !   !END!  GR_R0644
DSC0659 ! X =   652.3500,   6058.550,    466.120,    0 !   !END!  GR_R0645
DSC0660 ! X =   652.4000,   6058.550,    464.000,    0 !   !END!  GR_R0646
DSC0661 ! X =   652.4500,   6058.550,    462.720,    0 !   !END!  GR_R0647
DSC0662 ! X =   652.5000,   6058.550,    462.000,    0 !   !END!  GR_R0648
DSC0663 ! X =   651.5000,   6058.600,    503.122,    0 !   !END!  GR_R0649
DSC0664 ! X =   651.5500,   6058.600,    500.493,    0 !   !END!  GR_R0650
DSC0665 ! X =   651.6000,   6058.600,    496.331,    0 !   !END!  GR_R0651
DSC0666 ! X =   651.6500,   6058.600,    490.115,    0 !   !END!  GR_R0652
DSC0667 ! X =   651.7000,   6058.600,    486.538,    0 !   !END!  GR_R0653
DSC0668 ! X =   651.7500,   6058.600,    486.292,    0 !   !END!  GR_R0654
DSC0669 ! X =   651.8000,   6058.600,    486.846,    0 !   !END!  GR_R0655
DSC0670 ! X =   651.8500,   6058.600,    486.918,    0 !   !END!  GR_R0656
DSC0671 ! X =   651.9000,   6058.600,    485.467,    0 !   !END!  GR_R0657
DSC0672 ! X =   651.9500,   6058.600,    483.824,    0 !   !END!  GR_R0658
DSC0673 ! X =   652.0000,   6058.600,    480.181,    0 !   !END!  GR_R0659
DSC0674 ! X =   652.0500,   6058.600,    477.538,    0 !   !END!  GR_R0660
DSC0675 ! X =   652.1000,   6058.600,    475.172,    0 !   !END!  GR_R0661
DSC0676 ! X =   652.1500,   6058.600,    473.317,    0 !   !END!  GR_R0662
DSC0677 ! X =   652.2000,   6058.600,    471.528,    0 !   !END!  GR_R0663
DSC0678 ! X =   652.2500,   6058.600,    469.730,    0 !   !END!  GR_R0664
DSC0679 ! X =   652.3000,   6058.600,    467.423,    0 !   !END!  GR_R0665
DSC0680 ! X =   652.3500,   6058.600,    465.026,    0 !   !END!  GR_R0666
DSC0681 ! X =   652.4000,   6058.600,    463.804,    0 !   !END!  GR_R0667
DSC0682 ! X =   652.4500,   6058.600,    462.465,    0 !   !END!  GR_R0668
DSC0683 ! X =   652.5000,   6058.600,    462.125,    0 !   !END!  GR_R0669
DSC0684 ! X =   651.5000,   6058.650,    502.321,    0 !   !END!  GR_R0670
DSC0685 ! X =   651.5500,   6058.650,    498.821,    0 !   !END!  GR_R0671
DSC0686 ! X =   651.6000,   6058.650,    494.909,    0 !   !END!  GR_R0672
DSC0687 ! X =   651.6500,   6058.650,    489.933,    0 !   !END!  GR_R0673
DSC0688 ! X =   651.7000,   6058.650,    487.218,    0 !   !END!  GR_R0674
DSC0689 ! X =   651.7500,   6058.650,    485.000,    0 !   !END!  GR_R0675
DSC0690 ! X =   651.8000,   6058.650,    485.000,    0 !   !END!  GR_R0676
DSC0691 ! X =   651.8500,   6058.650,    485.000,    0 !   !END!  GR_R0677
DSC0692 ! X =   651.9000,   6058.650,    483.893,    0 !   !END!  GR_R0678
DSC0693 ! X =   651.9500,   6058.650,    481.576,    0 !   !END!  GR_R0679
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DSC0694 ! X =   652.0000,   6058.650,    478.901,    0 !   !END!  GR_R0680
DSC0695 ! X =   652.0500,   6058.650,    475.258,    0 !   !END!  GR_R0681
DSC0696 ! X =   652.1000,   6058.650,    474.062,    0 !   !END!  GR_R0682
DSC0697 ! X =   652.1500,   6058.650,    472.153,    0 !   !END!  GR_R0683
DSC0698 ! X =   652.2000,   6058.650,    470.309,    0 !   !END!  GR_R0684
DSC0699 ! X =   652.2500,   6058.650,    468.564,    0 !   !END!  GR_R0685
DSC0700 ! X =   652.3000,   6058.650,    466.616,    0 !   !END!  GR_R0686
DSC0701 ! X =   652.3500,   6058.650,    464.901,    0 !   !END!  GR_R0687
DSC0702 ! X =   652.4000,   6058.650,    463.104,    0 !   !END!  GR_R0688
DSC0703 ! X =   652.4500,   6058.650,    462.000,    0 !   !END!  GR_R0689
DSC0704 ! X =   652.5000,   6058.650,    462.541,    0 !   !END!  GR_R0690
DSC0705 ! X =   651.5000,   6058.700,    500.062,    0 !   !END!  GR_R0691
DSC0706 ! X =   651.5500,   6058.700,    496.419,    0 !   !END!  GR_R0692
DSC0707 ! X =   651.6000,   6058.700,    492.771,    0 !   !END!  GR_R0693
DSC0708 ! X =   651.6500,   6058.700,    489.128,    0 !   !END!  GR_R0694
DSC0709 ! X =   651.7000,   6058.700,    486.485,    0 !   !END!  GR_R0695
DSC0710 ! X =   651.7500,   6058.700,    484.175,    0 !   !END!  GR_R0696
DSC0711 ! X =   651.8000,   6058.700,    484.000,    0 !   !END!  GR_R0697
DSC0712 ! X =   651.8500,   6058.700,    483.608,    0 !   !END!  GR_R0698
DSC0713 ! X =   651.9000,   6058.700,    482.156,    0 !   !END!  GR_R0699
DSC0714 ! X =   651.9500,   6058.700,    480.264,    0 !   !END!  GR_R0700
DSC0715 ! X =   652.0000,   6058.700,    476.792,    0 !   !END!  GR_R0701
DSC0716 ! X =   652.0500,   6058.700,    473.908,    0 !   !END!  GR_R0702
DSC0717 ! X =   652.1000,   6058.700,    472.000,    0 !   !END!  GR_R0703
DSC0718 ! X =   652.1500,   6058.700,    471.029,    0 !   !END!  GR_R0704
DSC0719 ! X =   652.2000,   6058.700,    469.108,    0 !   !END!  GR_R0705
DSC0720 ! X =   652.2500,   6058.700,    467.360,    0 !   !END!  GR_R0706
DSC0721 ! X =   652.3000,   6058.700,    465.624,    0 !   !END!  GR_R0707
DSC0722 ! X =   652.3500,   6058.700,    464.000,    0 !   !END!  GR_R0708
DSC0723 ! X =   652.4000,   6058.700,    463.000,    0 !   !END!  GR_R0709
DSC0724 ! X =   652.4500,   6058.700,    462.523,    0 !   !END!  GR_R0710
DSC0725 ! X =   652.5000,   6058.700,    464.446,    0 !   !END!  GR_R0711
DSC0726 ! X =   651.4000,   6056.800,    461.000,    0 !   !END!  GR_R0712
DSC0727 ! X =   651.5000,   6056.800,    461.000,    0 !   !END!  GR_R0713
DSC0728 ! X =   651.6000,   6056.800,    461.000,    0 !   !END!  GR_R0714
DSC0729 ! X =   651.7000,   6056.800,    461.000,    0 !   !END!  GR_R0715
DSC0730 ! X =   651.8000,   6056.800,    461.000,    0 !   !END!  GR_R0716
DSC0731 ! X =   651.9000,   6056.800,    461.000,    0 !   !END!  GR_R0717
DSC0732 ! X =   652.0000,   6056.800,    462.066,    0 !   !END!  GR_R0718
DSC0733 ! X =   652.1000,   6056.800,    480.474,    0 !   !END!  GR_R0719
DSC0734 ! X =   652.2000,   6056.800,    488.000,    0 !   !END!  GR_R0720
DSC0735 ! X =   652.3000,   6056.800,    482.392,    0 !   !END!  GR_R0721
DSC0736 ! X =   652.4000,   6056.800,    475.943,    0 !   !END!  GR_R0722
DSC0737 ! X =   652.5000,   6056.800,    476.558,    0 !   !END!  GR_R0723
DSC0738 ! X =   652.6000,   6056.800,    479.445,    0 !   !END!  GR_R0724
DSC0739 ! X =   652.7000,   6056.800,    481.266,    0 !   !END!  GR_R0725
DSC0740 ! X =   652.8000,   6056.800,    482.111,    0 !   !END!  GR_R0726
DSC0741 ! X =   652.9000,   6056.800,    481.978,    0 !   !END!  GR_R0727
DSC0742 ! X =   653.0000,   6056.800,    480.000,    0 !   !END!  GR_R0728
DSC0743 ! X =   653.1000,   6056.800,    478.548,    0 !   !END!  GR_R0729
DSC0744 ! X =   653.2000,   6056.800,    477.000,    0 !   !END!  GR_R0730
DSC0745 ! X =   653.3000,   6056.800,    475.368,    0 !   !END!  GR_R0731
DSC0746 ! X =   653.4000,   6056.800,    474.000,    0 !   !END!  GR_R0732
DSC0747 ! X =   651.4000,   6056.900,    461.000,    0 !   !END!  GR_R0733
DSC0748 ! X =   651.5000,   6056.900,    461.805,    0 !   !END!  GR_R0734
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DSC0749 ! X =   651.6000,   6056.900,    461.000,    0 !   !END!  GR_R0735
DSC0750 ! X =   651.7000,   6056.900,    461.000,    0 !   !END!  GR_R0736
DSC0751 ! X =   651.8000,   6056.900,    461.000,    0 !   !END!  GR_R0737
DSC0752 ! X =   651.9000,   6056.900,    461.000,    0 !   !END!  GR_R0738
DSC0753 ! X =   652.0000,   6056.900,    484.814,    0 !   !END!  GR_R0739
DSC0754 ! X =   652.1000,   6056.900,    490.000,    0 !   !END!  GR_R0740
DSC0755 ! X =   652.2000,   6056.900,    488.000,    0 !   !END!  GR_R0741
DSC0756 ! X =   652.3000,   6056.900,    481.989,    0 !   !END!  GR_R0742
DSC0757 ! X =   652.4000,   6056.900,    479.013,    0 !   !END!  GR_R0743
DSC0758 ! X =   652.5000,   6056.900,    479.983,    0 !   !END!  GR_R0744
DSC0759 ! X =   652.6000,   6056.900,    481.805,    0 !   !END!  GR_R0745
DSC0760 ! X =   652.7000,   6056.900,    483.576,    0 !   !END!  GR_R0746
DSC0761 ! X =   652.8000,   6056.900,    484.000,    0 !   !END!  GR_R0747
DSC0762 ! X =   652.9000,   6056.900,    482.000,    0 !   !END!  GR_R0748
DSC0763 ! X =   653.0000,   6056.900,    480.000,    0 !   !END!  GR_R0749
DSC0764 ! X =   653.1000,   6056.900,    479.000,    0 !   !END!  GR_R0750
DSC0765 ! X =   653.2000,   6056.900,    477.017,    0 !   !END!  GR_R0751
DSC0766 ! X =   653.3000,   6056.900,    476.000,    0 !   !END!  GR_R0752
DSC0767 ! X =   653.4000,   6056.900,    474.000,    0 !   !END!  GR_R0753
DSC0768 ! X =   651.4000,   6057.000,    475.065,    0 !   !END!  GR_R0754
DSC0769 ! X =   651.5000,   6057.000,    468.806,    0 !   !END!  GR_R0755
DSC0770 ! X =   651.6000,   6057.000,    470.049,    0 !   !END!  GR_R0756
DSC0771 ! X =   651.7000,   6057.000,    461.430,    0 !   !END!  GR_R0757
DSC0772 ! X =   651.8000,   6057.000,    461.000,    0 !   !END!  GR_R0758
DSC0773 ! X =   651.9000,   6057.000,    478.301,    0 !   !END!  GR_R0759
DSC0774 ! X =   652.0000,   6057.000,    490.098,    0 !   !END!  GR_R0760
DSC0775 ! X =   652.1000,   6057.000,    487.698,    0 !   !END!  GR_R0761
DSC0776 ! X =   652.2000,   6057.000,    485.389,    0 !   !END!  GR_R0762
DSC0777 ! X =   652.3000,   6057.000,    482.000,    0 !   !END!  GR_R0763
DSC0778 ! X =   652.4000,   6057.000,    483.323,    0 !   !END!  GR_R0764
DSC0779 ! X =   652.5000,   6057.000,    484.179,    0 !   !END!  GR_R0765
DSC0780 ! X =   652.6000,   6057.000,    484.017,    0 !   !END!  GR_R0766
DSC0781 ! X =   652.7000,   6057.000,    485.871,    0 !   !END!  GR_R0767
DSC0782 ! X =   652.8000,   6057.000,    484.000,    0 !   !END!  GR_R0768
DSC0783 ! X =   652.9000,   6057.000,    481.000,    0 !   !END!  GR_R0769
DSC0784 ! X =   653.0000,   6057.000,    478.400,    0 !   !END!  GR_R0770
DSC0785 ! X =   653.1000,   6057.000,    477.000,    0 !   !END!  GR_R0771
DSC0786 ! X =   653.2000,   6057.000,    476.000,    0 !   !END!  GR_R0772
DSC0787 ! X =   653.3000,   6057.000,    475.000,    0 !   !END!  GR_R0773
DSC0788 ! X =   653.4000,   6057.000,    473.135,    0 !   !END!  GR_R0774
DSC0789 ! X =   651.4000,   6057.100,    475.368,    0 !   !END!  GR_R0775
DSC0790 ! X =   651.5000,   6057.100,    472.058,    0 !   !END!  GR_R0776
DSC0791 ! X =   651.6000,   6057.100,    472.712,    0 !   !END!  GR_R0777
DSC0792 ! X =   651.7000,   6057.100,    467.318,    0 !   !END!  GR_R0778
DSC0793 ! X =   651.8000,   6057.100,    472.682,    0 !   !END!  GR_R0779
DSC0794 ! X =   651.9000,   6057.100,    482.430,    0 !   !END!  GR_R0780
DSC0795 ! X =   652.0000,   6057.100,    485.836,    0 !   !END!  GR_R0781
DSC0796 ! X =   652.1000,   6057.100,    488.000,    0 !   !END!  GR_R0782
DSC0797 ! X =   652.2000,   6057.100,    486.842,    0 !   !END!  GR_R0783
DSC0798 ! X =   652.3000,   6057.100,    486.158,    0 !   !END!  GR_R0784
DSC0799 ! X =   652.4000,   6057.100,    487.634,    0 !   !END!  GR_R0785
DSC0800 ! X =   652.5000,   6057.100,    488.000,    0 !   !END!  GR_R0786
DSC0801 ! X =   652.6000,   6057.100,    486.273,    0 !   !END!  GR_R0787
DSC0802 ! X =   652.7000,   6057.100,    487.000,    0 !   !END!  GR_R0788
DSC0803 ! X =   652.8000,   6057.100,    483.000,    0 !   !END!  GR_R0789
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DSC0804 ! X =   652.9000,   6057.100,    479.083,    0 !   !END!  GR_R0790
DSC0805 ! X =   653.0000,   6057.100,    476.114,    0 !   !END!  GR_R0791
DSC0806 ! X =   653.1000,   6057.100,    474.384,    0 !   !END!  GR_R0792
DSC0807 ! X =   653.2000,   6057.100,    475.000,    0 !   !END!  GR_R0793
DSC0808 ! X =   653.3000,   6057.100,    474.000,    0 !   !END!  GR_R0794
DSC0809 ! X =   653.4000,   6057.100,    472.755,    0 !   !END!  GR_R0795
DSC0810 ! X =   651.4000,   6057.200,    476.461,    0 !   !END!  GR_R0796
DSC0811 ! X =   651.5000,   6057.200,    475.245,    0 !   !END!  GR_R0797
DSC0812 ! X =   651.6000,   6057.200,    475.332,    0 !   !END!  GR_R0798
DSC0813 ! X =   651.7000,   6057.200,    473.914,    0 !   !END!  GR_R0799
DSC0814 ! X =   651.8000,   6057.200,    474.927,    0 !   !END!  GR_R0800
DSC0815 ! X =   651.9000,   6057.200,    482.038,    0 !   !END!  GR_R0801
DSC0816 ! X =   652.0000,   6057.200,    487.520,    0 !   !END!  GR_R0802
DSC0817 ! X =   652.1000,   6057.200,    488.000,    0 !   !END!  GR_R0803
DSC0818 ! X =   652.2000,   6057.200,    486.485,    0 !   !END!  GR_R0804
DSC0819 ! X =   652.3000,   6057.200,    489.021,    0 !   !END!  GR_R0805
DSC0820 ! X =   652.4000,   6057.200,    490.000,    0 !   !END!  GR_R0806
DSC0821 ! X =   652.5000,   6057.200,    489.379,    0 !   !END!  GR_R0807
DSC0822 ! X =   652.6000,   6057.200,    488.669,    0 !   !END!  GR_R0808
DSC0823 ! X =   652.7000,   6057.200,    486.756,    0 !   !END!  GR_R0809
DSC0824 ! X =   652.8000,   6057.200,    481.669,    0 !   !END!  GR_R0810
DSC0825 ! X =   652.9000,   6057.200,    476.927,    0 !   !END!  GR_R0811
DSC0826 ! X =   653.0000,   6057.200,    473.946,    0 !   !END!  GR_R0812
DSC0827 ! X =   653.1000,   6057.200,    472.000,    0 !   !END!  GR_R0813
DSC0828 ! X =   653.2000,   6057.200,    473.719,    0 !   !END!  GR_R0814
DSC0829 ! X =   653.3000,   6057.200,    474.000,    0 !   !END!  GR_R0815
DSC0830 ! X =   653.4000,   6057.200,    471.256,    0 !   !END!  GR_R0816
DSC0831 ! X =   651.4000,   6057.300,    478.699,    0 !   !END!  GR_R0817
DSC0832 ! X =   651.5000,   6057.300,    478.555,    0 !   !END!  GR_R0818
DSC0833 ! X =   651.6000,   6057.300,    479.411,    0 !   !END!  GR_R0819
DSC0834 ! X =   651.7000,   6057.300,    479.267,    0 !   !END!  GR_R0820
DSC0835 ! X =   651.8000,   6057.300,    478.118,    0 !   !END!  GR_R0821
DSC0836 ! X =   653.0000,   6057.300,    470.619,    0 !   !END!  GR_R0822
DSC0837 ! X =   653.1000,   6057.300,    468.763,    0 !   !END!  GR_R0823
DSC0838 ! X =   653.2000,   6057.300,    469.912,    0 !   !END!  GR_R0824
DSC0839 ! X =   653.3000,   6057.300,    472.056,    0 !   !END!  GR_R0825
DSC0840 ! X =   653.4000,   6057.300,    472.599,    0 !   !END!  GR_R0826
DSC0841 ! X =   651.4000,   6057.400,    480.387,    0 !   !END!  GR_R0827
DSC0842 ! X =   651.5000,   6057.400,    481.866,    0 !   !END!  GR_R0828
DSC0843 ! X =   651.6000,   6057.400,    482.789,    0 !   !END!  GR_R0829
DSC0844 ! X =   651.7000,   6057.400,    483.573,    0 !   !END!  GR_R0830
DSC0845 ! X =   651.8000,   6057.400,    481.429,    0 !   !END!  GR_R0831
DSC0846 ! X =   653.0000,   6057.400,    467.223,    0 !   !END!  GR_R0832
DSC0847 ! X =   653.1000,   6057.400,    465.867,    0 !   !END!  GR_R0833
DSC0848 ! X =   653.2000,   6057.400,    468.398,    0 !   !END!  GR_R0834
DSC0849 ! X =   653.3000,   6057.400,    468.254,    0 !   !END!  GR_R0835
DSC0850 ! X =   653.4000,   6057.400,    469.224,    0 !   !END!  GR_R0836
DSC0851 ! X =   651.4000,   6057.500,    482.200,    0 !   !END!  GR_R0837
DSC0852 ! X =   651.5000,   6057.500,    485.011,    0 !   !END!  GR_R0838
DSC0853 ! X =   651.6000,   6057.500,    486.505,    0 !   !END!  GR_R0839
DSC0854 ! X =   651.7000,   6057.500,    487.883,    0 !   !END!  GR_R0840
DSC0855 ! X =   651.8000,   6057.500,    484.739,    0 !   !END!  GR_R0841
DSC0856 ! X =   653.0000,   6057.500,    464.473,    0 !   !END!  GR_R0842
DSC0857 ! X =   653.1000,   6057.500,    468.994,    0 !   !END!  GR_R0843
DSC0858 ! X =   653.2000,   6057.500,    472.709,    0 !   !END!  GR_R0844
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DSC0859 ! X =   653.3000,   6057.500,    471.178,    0 !   !END!  GR_R0845
DSC0860 ! X =   653.4000,   6057.500,    476.501,    0 !   !END!  GR_R0846
DSC0861 ! X =   651.4000,   6057.600,    483.548,    0 !   !END!  GR_R0847
DSC0862 ! X =   651.5000,   6057.600,    487.640,    0 !   !END!  GR_R0848
DSC0863 ! X =   651.6000,   6057.600,    489.828,    0 !   !END!  GR_R0849
DSC0864 ! X =   651.7000,   6057.600,    491.160,    0 !   !END!  GR_R0850
DSC0865 ! X =   651.8000,   6057.600,    487.050,    0 !   !END!  GR_R0851
DSC0866 ! X =   653.0000,   6057.600,    465.093,    0 !   !END!  GR_R0852
DSC0867 ! X =   653.1000,   6057.600,    472.344,    0 !   !END!  GR_R0853
DSC0868 ! X =   653.2000,   6057.600,    472.352,    0 !   !END!  GR_R0854
DSC0869 ! X =   653.3000,   6057.600,    473.957,    0 !   !END!  GR_R0855
DSC0870 ! X =   653.4000,   6057.600,    487.453,    0 !   !END!  GR_R0856
DSC0871 ! X =   651.4000,   6057.700,    484.944,    0 !   !END!  GR_R0857
DSC0872 ! X =   653.0000,   6057.700,    464.438,    0 !   !END!  GR_R0858
DSC0873 ! X =   653.1000,   6057.700,    471.308,    0 !   !END!  GR_R0859
DSC0874 ! X =   653.2000,   6057.700,    471.623,    0 !   !END!  GR_R0860
DSC0875 ! X =   653.3000,   6057.700,    487.637,    0 !   !END!  GR_R0861
DSC0876 ! X =   653.4000,   6057.700,    482.413,    0 !   !END!  GR_R0862
DSC0877 ! X =   651.4000,   6057.800,    487.374,    0 !   !END!  GR_R0863
DSC0878 ! X =   653.0000,   6057.800,    461.000,    0 !   !END!  GR_R0864
DSC0879 ! X =   653.1000,   6057.800,    472.432,    0 !   !END!  GR_R0865
DSC0880 ! X =   653.2000,   6057.800,    482.810,    0 !   !END!  GR_R0866
DSC0881 ! X =   653.3000,   6057.800,    485.432,    0 !   !END!  GR_R0867
DSC0882 ! X =   653.4000,   6057.800,    470.946,    0 !   !END!  GR_R0868
DSC0883 ! X =   651.4000,   6057.900,    493.909,    0 !   !END!  GR_R0869
DSC0884 ! X =   653.0000,   6057.900,    461.000,    0 !   !END!  GR_R0870
DSC0885 ! X =   653.1000,   6057.900,    472.870,    0 !   !END!  GR_R0871
DSC0886 ! X =   653.2000,   6057.900,    478.149,    0 !   !END!  GR_R0872
DSC0887 ! X =   653.3000,   6057.900,    471.789,    0 !   !END!  GR_R0873
DSC0888 ! X =   653.4000,   6057.900,    461.000,    0 !   !END!  GR_R0874
DSC0889 ! X =   651.4000,   6058.000,    503.719,    0 !   !END!  GR_R0875
DSC0890 ! X =   653.0000,   6058.000,    461.000,    0 !   !END!  GR_R0876
DSC0891 ! X =   653.1000,   6058.000,    472.723,    0 !   !END!  GR_R0877
DSC0892 ! X =   653.2000,   6058.000,    466.834,    0 !   !END!  GR_R0878
DSC0893 ! X =   653.3000,   6058.000,    461.000,    0 !   !END!  GR_R0879
DSC0894 ! X =   653.4000,   6058.000,    461.000,    0 !   !END!  GR_R0880
DSC0895 ! X =   651.4000,   6058.100,    507.000,    0 !   !END!  GR_R0881
DSC0896 ! X =   653.0000,   6058.100,    463.141,    0 !   !END!  GR_R0882
DSC0897 ! X =   653.1000,   6058.100,    461.854,    0 !   !END!  GR_R0883
DSC0898 ! X =   653.2000,   6058.100,    461.000,    0 !   !END!  GR_R0884
DSC0899 ! X =   653.3000,   6058.100,    461.000,    0 !   !END!  GR_R0885
DSC0900 ! X =   653.4000,   6058.100,    461.000,    0 !   !END!  GR_R0886
DSC0901 ! X =   651.4000,   6058.200,    507.000,    0 !   !END!  GR_R0887
DSC0902 ! X =   653.0000,   6058.200,    461.000,    0 !   !END!  GR_R0888
DSC0903 ! X =   653.1000,   6058.200,    461.000,    0 !   !END!  GR_R0889
DSC0904 ! X =   653.2000,   6058.200,    461.000,    0 !   !END!  GR_R0890
DSC0905 ! X =   653.3000,   6058.200,    461.000,    0 !   !END!  GR_R0891
DSC0906 ! X =   653.4000,   6058.200,    461.000,    0 !   !END!  GR_R0892
DSC0907 ! X =   651.4000,   6058.300,    505.202,    0 !   !END!  GR_R0893
DSC0908 ! X =   653.0000,   6058.300,    461.000,    0 !   !END!  GR_R0894
DSC0909 ! X =   653.1000,   6058.300,    461.000,    0 !   !END!  GR_R0895
DSC0910 ! X =   653.2000,   6058.300,    461.000,    0 !   !END!  GR_R0896
DSC0911 ! X =   653.3000,   6058.300,    461.000,    0 !   !END!  GR_R0897
DSC0912 ! X =   653.4000,   6058.300,    461.000,    0 !   !END!  GR_R0898
DSC0913 ! X =   651.4000,   6058.400,    503.891,    0 !   !END!  GR_R0899
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DSC0914 ! X =   652.6000,   6058.400,    464.406,    0 !   !END!  GR_R0900
DSC0915 ! X =   652.7000,   6058.400,    467.000,    0 !   !END!  GR_R0901
DSC0916 ! X =   652.8000,   6058.400,    464.078,    0 !   !END!  GR_R0902
DSC0917 ! X =   652.9000,   6058.400,    461.039,    0 !   !END!  GR_R0903
DSC0918 ! X =   653.0000,   6058.400,    461.000,    0 !   !END!  GR_R0904
DSC0919 ! X =   653.1000,   6058.400,    461.000,    0 !   !END!  GR_R0905
DSC0920 ! X =   653.2000,   6058.400,    461.000,    0 !   !END!  GR_R0906
DSC0921 ! X =   653.3000,   6058.400,    461.000,    0 !   !END!  GR_R0907
DSC0922 ! X =   653.4000,   6058.400,    461.000,    0 !   !END!  GR_R0908
DSC0923 ! X =   651.4000,   6058.500,    502.484,    0 !   !END!  GR_R0909
DSC0924 ! X =   652.6000,   6058.500,    466.000,    0 !   !END!  GR_R0910
DSC0925 ! X =   652.7000,   6058.500,    468.880,    0 !   !END!  GR_R0911
DSC0926 ! X =   652.8000,   6058.500,    464.155,    0 !   !END!  GR_R0912
DSC0927 ! X =   652.9000,   6058.500,    461.000,    0 !   !END!  GR_R0913
DSC0928 ! X =   653.0000,   6058.500,    461.000,    0 !   !END!  GR_R0914
DSC0929 ! X =   653.1000,   6058.500,    461.000,    0 !   !END!  GR_R0915
DSC0930 ! X =   653.2000,   6058.500,    461.000,    0 !   !END!  GR_R0916
DSC0931 ! X =   653.3000,   6058.500,    461.000,    0 !   !END!  GR_R0917
DSC0932 ! X =   653.4000,   6058.500,    461.000,    0 !   !END!  GR_R0918
DSC0933 ! X =   651.4000,   6058.600,    503.264,    0 !   !END!  GR_R0919
DSC0934 ! X =   652.6000,   6058.600,    467.996,    0 !   !END!  GR_R0920
DSC0935 ! X =   652.7000,   6058.600,    470.848,    0 !   !END!  GR_R0921
DSC0936 ! X =   652.8000,   6058.600,    469.987,    0 !   !END!  GR_R0922
DSC0937 ! X =   652.9000,   6058.600,    464.730,    0 !   !END!  GR_R0923
DSC0938 ! X =   653.0000,   6058.600,    461.822,    0 !   !END!  GR_R0924
DSC0939 ! X =   653.1000,   6058.600,    461.000,    0 !   !END!  GR_R0925
DSC0940 ! X =   653.2000,   6058.600,    461.000,    0 !   !END!  GR_R0926
DSC0941 ! X =   653.3000,   6058.600,    461.000,    0 !   !END!  GR_R0927
DSC0942 ! X =   653.4000,   6058.600,    461.000,    0 !   !END!  GR_R0928
DSC0943 ! X =   651.4000,   6058.700,    505.000,    0 !   !END!  GR_R0929
DSC0944 ! X =   652.6000,   6058.700,    470.867,    0 !   !END!  GR_R0930
DSC0945 ! X =   652.7000,   6058.700,    472.158,    0 !   !END!  GR_R0931
DSC0946 ! X =   652.8000,   6058.700,    474.014,    0 !   !END!  GR_R0932
DSC0947 ! X =   652.9000,   6058.700,    472.760,    0 !   !END!  GR_R0933
DSC0948 ! X =   653.0000,   6058.700,    468.902,    0 !   !END!  GR_R0934
DSC0949 ! X =   653.1000,   6058.700,    462.578,    0 !   !END!  GR_R0935
DSC0950 ! X =   653.2000,   6058.700,    461.000,    0 !   !END!  GR_R0936
DSC0951 ! X =   653.3000,   6058.700,    461.000,    0 !   !END!  GR_R0937
DSC0952 ! X =   653.4000,   6058.700,    461.000,    0 !   !END!  GR_R0938
DSC0953 ! X =   651.4000,   6058.800,    502.299,    0 !   !END!  GR_R0939
DSC0954 ! X =   651.5000,   6058.800,    492.296,    0 !   !END!  GR_R0940
DSC0955 ! X =   651.6000,   6058.800,    488.261,    0 !   !END!  GR_R0941
DSC0956 ! X =   651.7000,   6058.800,    483.925,    0 !   !END!  GR_R0942
DSC0957 ! X =   651.8000,   6058.800,    481.226,    0 !   !END!  GR_R0943
DSC0958 ! X =   651.9000,   6058.800,    480.366,    0 !   !END!  GR_R0944
DSC0959 ! X =   652.0000,   6058.800,    475.542,    0 !   !END!  GR_R0945
DSC0960 ! X =   652.1000,   6058.800,    471.036,    0 !   !END!  GR_R0946
DSC0961 ! X =   652.2000,   6058.800,    466.806,    0 !   !END!  GR_R0947
DSC0962 ! X =   652.3000,   6058.800,    464.000,    0 !   !END!  GR_R0948
DSC0963 ! X =   652.4000,   6058.800,    465.094,    0 !   !END!  GR_R0949
DSC0964 ! X =   652.5000,   6058.800,    469.381,    0 !   !END!  GR_R0950
DSC0965 ! X =   652.6000,   6058.800,    473.000,    0 !   !END!  GR_R0951
DSC0966 ! X =   652.7000,   6058.800,    473.230,    0 !   !END!  GR_R0952
DSC0967 ! X =   652.8000,   6058.800,    475.000,    0 !   !END!  GR_R0953
DSC0968 ! X =   652.9000,   6058.800,    474.640,    0 !   !END!  GR_R0954
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DSC0969 ! X =   653.0000,   6058.800,    471.178,    0 !   !END!  GR_R0955
DSC0970 ! X =   653.1000,   6058.800,    462.599,    0 !   !END!  GR_R0956
DSC0971 ! X =   653.2000,   6058.800,    461.000,    0 !   !END!  GR_R0957
DSC0972 ! X =   653.3000,   6058.800,    461.000,    0 !   !END!  GR_R0958
DSC0973 ! X =   653.4000,   6058.800,    461.000,    0 !   !END!  GR_R0959
DSC0974 ! X =   651.0000,   6057.200,    471.846,    0 !   !END!  GR_R0960
DSC0975 ! X =   651.1000,   6057.200,    470.411,    0 !   !END!  GR_R0961
DSC0976 ! X =   651.2000,   6057.200,    473.014,    0 !   !END!  GR_R0962
DSC0977 ! X =   651.3000,   6057.200,    476.000,    0 !   !END!  GR_R0963
DSC0978 ! X =   651.0000,   6057.300,    471.566,    0 !   !END!  GR_R0964
DSC0979 ! X =   651.1000,   6057.300,    473.857,    0 !   !END!  GR_R0965
DSC0980 ! X =   651.2000,   6057.300,    474.991,    0 !   !END!  GR_R0966
DSC0981 ! X =   651.3000,   6057.300,    477.000,    0 !   !END!  GR_R0967
DSC0982 ! X =   651.0000,   6057.400,    473.000,    0 !   !END!  GR_R0968
DSC0983 ! X =   651.1000,   6057.400,    475.037,    0 !   !END!  GR_R0969
DSC0984 ! X =   651.2000,   6057.400,    477.000,    0 !   !END!  GR_R0970
DSC0985 ! X =   651.3000,   6057.400,    478.145,    0 !   !END!  GR_R0971
DSC0986 ! X =   651.0000,   6057.500,    473.101,    0 !   !END!  GR_R0972
DSC0987 ! X =   651.1000,   6057.500,    477.747,    0 !   !END!  GR_R0973
DSC0988 ! X =   651.2000,   6057.500,    479.461,    0 !   !END!  GR_R0974
DSC0989 ! X =   651.3000,   6057.500,    480.000,    0 !   !END!  GR_R0975
DSC0990 ! X =   651.0000,   6057.600,    477.350,    0 !   !END!  GR_R0976
DSC0991 ! X =   651.1000,   6057.600,    481.058,    0 !   !END!  GR_R0977
DSC0992 ! X =   651.2000,   6057.600,    481.914,    0 !   !END!  GR_R0978
DSC0993 ! X =   651.3000,   6057.600,    481.872,    0 !   !END!  GR_R0979
DSC0994 ! X =   651.0000,   6057.700,    481.910,    0 !   !END!  GR_R0980
DSC0995 ! X =   651.1000,   6057.700,    484.368,    0 !   !END!  GR_R0981
DSC0996 ! X =   651.2000,   6057.700,    484.224,    0 !   !END!  GR_R0982
DSC0997 ! X =   651.3000,   6057.700,    483.361,    0 !   !END!  GR_R0983
DSC0998 ! X =   651.0000,   6057.800,    485.822,    0 !   !END!  GR_R0984
DSC0999 ! X =   651.1000,   6057.800,    488.000,    0 !   !END!  GR_R0985
DSC1000 ! X =   651.2000,   6057.800,    486.763,    0 !   !END!  GR_R0986
DSC1001 ! X =   651.3000,   6057.800,    485.000,    0 !   !END!  GR_R0987
DSC1002 ! X =   651.0000,   6057.900,    488.133,    0 !   !END!  GR_R0988
DSC1003 ! X =   651.1000,   6057.900,    488.000,    0 !   !END!  GR_R0989
DSC1004 ! X =   651.2000,   6057.900,    488.000,    0 !   !END!  GR_R0990
DSC1005 ! X =   651.3000,   6057.900,    487.644,    0 !   !END!  GR_R0991
DSC1006 ! X =   651.0000,   6058.000,    488.862,    0 !   !END!  GR_R0992
DSC1007 ! X =   651.1000,   6058.000,    487.701,    0 !   !END!  GR_R0993
DSC1008 ! X =   651.2000,   6058.000,    489.158,    0 !   !END!  GR_R0994
DSC1009 ! X =   651.3000,   6058.000,    496.461,    0 !   !END!  GR_R0995
DSC1010 ! X =   651.0000,   6058.100,    489.462,    0 !   !END!  GR_R0996
DSC1011 ! X =   651.1000,   6058.100,    487.000,    0 !   !END!  GR_R0997
DSC1012 ! X =   651.2000,   6058.100,    497.437,    0 !   !END!  GR_R0998
DSC1013 ! X =   651.3000,   6058.100,    503.785,    0 !   !END!  GR_R0999
DSC1014 ! X =   651.0000,   6058.200,    492.404,    0 !   !END!  GR_R1000
DSC1015 ! X =   651.1000,   6058.200,    496.833,    0 !   !END!  GR_R1001
DSC1016 ! X =   651.2000,   6058.200,    505.776,    0 !   !END!  GR_R1002
DSC1017 ! X =   651.3000,   6058.200,    506.000,    0 !   !END!  GR_R1003
DSC1018 ! X =   651.0000,   6058.300,    496.330,    0 !   !END!  GR_R1004
DSC1019 ! X =   651.1000,   6058.300,    502.000,    0 !   !END!  GR_R1005
DSC1020 ! X =   651.2000,   6058.300,    506.000,    0 !   !END!  GR_R1006
DSC1021 ! X =   651.3000,   6058.300,    506.000,    0 !   !END!  GR_R1007
DSC1022 ! X =   651.0000,   6058.400,    498.131,    0 !   !END!  GR_R1008
DSC1023 ! X =   651.1000,   6058.400,    503.000,    0 !   !END!  GR_R1009
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DSC1024 ! X =   651.2000,   6058.400,    505.000,    0 !   !END!  GR_R1010
DSC1025 ! X =   651.3000,   6058.400,    504.891,    0 !   !END!  GR_R1011
DSC1026 ! X =   651.0000,   6058.500,    498.381,    0 !   !END!  GR_R1012
DSC1027 ! X =   651.1000,   6058.500,    503.000,    0 !   !END!  GR_R1013
DSC1028 ! X =   651.2000,   6058.500,    504.000,    0 !   !END!  GR_R1014
DSC1029 ! X =   651.3000,   6058.500,    503.000,    0 !   !END!  GR_R1015
DSC1030 ! X =   651.0000,   6058.600,    497.626,    0 !   !END!  GR_R1016
DSC1031 ! X =   651.1000,   6058.600,    503.010,    0 !   !END!  GR_R1017
DSC1032 ! X =   651.2000,   6058.600,    501.982,    0 !   !END!  GR_R1018
DSC1033 ! X =   651.3000,   6058.600,    501.000,    0 !   !END!  GR_R1019
DSC1034 ! X =   651.0000,   6058.700,    496.875,    0 !   !END!  GR_R1020
DSC1035 ! X =   651.1000,   6058.700,    503.000,    0 !   !END!  GR_R1021
DSC1036 ! X =   651.2000,   6058.700,    500.243,    0 !   !END!  GR_R1022
DSC1037 ! X =   651.3000,   6058.700,    503.032,    0 !   !END!  GR_R1023
DSC1038 ! X =   651.0000,   6058.800,    497.038,    0 !   !END!  GR_R1024
DSC1039 ! X =   651.1000,   6058.800,    499.120,    0 !   !END!  GR_R1025
DSC1040 ! X =   651.2000,   6058.800,    503.632,    0 !   !END!  GR_R1026
DSC1041 ! X =   651.3000,   6058.800,    502.506,    0 !   !END!  GR_R1027
DSC1042 ! X =   651.0000,   6058.900,    503.088,    0 !   !END!  GR_R1028
DSC1043 ! X =   651.1000,   6058.900,    503.730,    0 !   !END!  GR_R1029
DSC1044 ! X =   651.2000,   6058.900,    501.051,    0 !   !END!  GR_R1030
DSC1045 ! X =   651.3000,   6058.900,    496.656,    0 !   !END!  GR_R1031
DSC1046 ! X =   651.4000,   6058.900,    493.573,    0 !   !END!  GR_R1032
DSC1047 ! X =   651.5000,   6058.900,    485.942,    0 !   !END!  GR_R1033
DSC1048 ! X =   651.6000,   6058.900,    484.627,    0 !   !END!  GR_R1034
DSC1049 ! X =   651.7000,   6058.900,    480.907,    0 !   !END!  GR_R1035
DSC1050 ! X =   651.8000,   6058.900,    478.920,    0 !   !END!  GR_R1036
DSC1051 ! X =   651.9000,   6058.900,    478.745,    0 !   !END!  GR_R1037
DSC1052 ! X =   652.0000,   6058.900,    475.293,    0 !   !END!  GR_R1038
DSC1053 ! X =   652.1000,   6058.900,    470.765,    0 !   !END!  GR_R1039
DSC1054 ! X =   652.2000,   6058.900,    465.000,    0 !   !END!  GR_R1040
DSC1055 ! X =   652.3000,   6058.900,    465.360,    0 !   !END!  GR_R1041
DSC1056 ! X =   652.4000,   6058.900,    469.659,    0 !   !END!  GR_R1042
DSC1057 ! X =   652.5000,   6058.900,    472.882,    0 !   !END!  GR_R1043
DSC1058 ! X =   652.6000,   6058.900,    473.000,    0 !   !END!  GR_R1044
DSC1059 ! X =   652.7000,   6058.900,    473.801,    0 !   !END!  GR_R1045
DSC1060 ! X =   652.8000,   6058.900,    474.370,    0 !   !END!  GR_R1046
DSC1061 ! X =   652.9000,   6058.900,    472.703,    0 !   !END!  GR_R1047
DSC1062 ! X =   653.0000,   6058.900,    465.618,    0 !   !END!  GR_R1048
DSC1063 ! X =   651.0000,   6059.000,    501.453,    0 !   !END!  GR_R1049
DSC1064 ! X =   651.1000,   6059.000,    499.597,    0 !   !END!  GR_R1050
DSC1065 ! X =   651.2000,   6059.000,    495.256,    0 !   !END!  GR_R1051
DSC1066 ! X =   651.3000,   6059.000,    489.956,    0 !   !END!  GR_R1052
DSC1067 ! X =   651.4000,   6059.000,    487.029,    0 !   !END!  GR_R1053
DSC1068 ! X =   651.5000,   6059.000,    483.037,    0 !   !END!  GR_R1054
DSC1069 ! X =   651.6000,   6059.000,    480.317,    0 !   !END!  GR_R1055
DSC1070 ! X =   651.7000,   6059.000,    478.160,    0 !   !END!  GR_R1056
DSC1071 ! X =   651.8000,   6059.000,    476.610,    0 !   !END!  GR_R1057
DSC1072 ! X =   651.9000,   6059.000,    477.000,    0 !   !END!  GR_R1058
DSC1073 ! X =   652.0000,   6059.000,    475.004,    0 !   !END!  GR_R1059
DSC1074 ! X =   652.1000,   6059.000,    465.051,    0 !   !END!  GR_R1060
DSC1075 ! X =   652.2000,   6059.000,    466.670,    0 !   !END!  GR_R1061
DSC1076 ! X =   652.3000,   6059.000,    468.000,    0 !   !END!  GR_R1062
DSC1077 ! X =   652.4000,   6059.000,    472.000,    0 !   !END!  GR_R1063
DSC1078 ! X =   652.5000,   6059.000,    472.000,    0 !   !END!  GR_R1064
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DSC1079 ! X =   652.6000,   6059.000,    472.000,    0 !   !END!  GR_R1065
DSC1080 ! X =   652.7000,   6059.000,    472.910,    0 !   !END!  GR_R1066
DSC1081 ! X =   652.8000,   6059.000,    473.000,    0 !   !END!  GR_R1067
DSC1082 ! X =   652.9000,   6059.000,    472.141,    0 !   !END!  GR_R1068
DSC1083 ! X =   653.0000,   6059.000,    462.411,    0 !   !END!  GR_R1069
DSC1084 ! X =   651.0000,   6059.100,    497.147,    0 !   !END!  GR_R1070
DSC1085 ! X =   651.1000,   6059.100,    494.487,    0 !   !END!  GR_R1071
DSC1086 ! X =   651.2000,   6059.100,    489.545,    0 !   !END!  GR_R1072
DSC1087 ! X =   651.3000,   6059.100,    485.574,    0 !   !END!  GR_R1073
DSC1088 ! X =   651.4000,   6059.100,    483.718,    0 !   !END!  GR_R1074
DSC1089 ! X =   651.5000,   6059.100,    479.995,    0 !   !END!  GR_R1075
DSC1090 ! X =   651.6000,   6059.100,    477.011,    0 !   !END!  GR_R1076
DSC1091 ! X =   651.7000,   6059.100,    476.000,    0 !   !END!  GR_R1077
DSC1092 ! X =   651.8000,   6059.100,    474.535,    0 !   !END!  GR_R1078
DSC1093 ! X =   651.9000,   6059.100,    474.443,    0 !   !END!  GR_R1079
DSC1094 ! X =   652.0000,   6059.100,    474.587,    0 !   !END!  GR_R1080
DSC1095 ! X =   652.1000,   6059.100,    465.000,    0 !   !END!  GR_R1081
DSC1096 ! X =   652.2000,   6059.100,    470.125,    0 !   !END!  GR_R1082
DSC1097 ! X =   652.3000,   6059.100,    469.991,    0 !   !END!  GR_R1083
DSC1098 ! X =   652.4000,   6059.100,    471.942,    0 !   !END!  GR_R1084
DSC1099 ! X =   652.5000,   6059.100,    472.000,    0 !   !END!  GR_R1085
DSC1100 ! X =   652.6000,   6059.100,    470.560,    0 !   !END!  GR_R1086
DSC1101 ! X =   652.7000,   6059.100,    470.697,    0 !   !END!  GR_R1087
DSC1102 ! X =   652.8000,   6059.100,    472.251,    0 !   !END!  GR_R1088
DSC1103 ! X =   652.9000,   6059.100,    470.998,    0 !   !END!  GR_R1089
DSC1104 ! X =   653.0000,   6059.100,    461.456,    0 !   !END!  GR_R1090
DSC1105 ! X =   651.0000,   6059.200,    492.723,    0 !   !END!  GR_R1091
DSC1106 ! X =   651.1000,   6059.200,    489.981,    0 !   !END!  GR_R1092
DSC1107 ! X =   651.2000,   6059.200,    486.002,    0 !   !END!  GR_R1093
DSC1108 ! X =   651.3000,   6059.200,    482.695,    0 !   !END!  GR_R1094
DSC1109 ! X =   651.4000,   6059.200,    480.408,    0 !   !END!  GR_R1095
DSC1110 ! X =   651.5000,   6059.200,    477.398,    0 !   !END!  GR_R1096
DSC1111 ! X =   651.6000,   6059.200,    474.196,    0 !   !END!  GR_R1097
DSC1112 ! X =   651.7000,   6059.200,    473.000,    0 !   !END!  GR_R1098
DSC1113 ! X =   651.8000,   6059.200,    469.971,    0 !   !END!  GR_R1099
DSC1114 ! X =   651.9000,   6059.200,    465.000,    0 !   !END!  GR_R1100
DSC1115 ! X =   652.0000,   6059.200,    465.000,    0 !   !END!  GR_R1101
DSC1116 ! X =   652.1000,   6059.200,    472.379,    0 !   !END!  GR_R1102
DSC1117 ! X =   652.2000,   6059.200,    472.818,    0 !   !END!  GR_R1103
DSC1118 ! X =   652.3000,   6059.200,    471.000,    0 !   !END!  GR_R1104
DSC1119 ! X =   652.4000,   6059.200,    471.000,    0 !   !END!  GR_R1105
DSC1120 ! X =   652.5000,   6059.200,    471.000,    0 !   !END!  GR_R1106
DSC1121 ! X =   652.6000,   6059.200,    469.000,    0 !   !END!  GR_R1107
DSC1122 ! X =   652.7000,   6059.200,    471.493,    0 !   !END!  GR_R1108
DSC1123 ! X =   652.8000,   6059.200,    473.000,    0 !   !END!  GR_R1109
DSC1124 ! X =   652.9000,   6059.200,    472.637,    0 !   !END!  GR_R1110
DSC1125 ! X =   653.0000,   6059.200,    461.000,    0 !   !END!  GR_R1111
DSC1126 ! X =   650.4000,   6055.800,    481.522,    0 !   !END!  GR_R1112
DSC1127 ! X =   650.6000,   6055.800,    467.632,    0 !   !END!  GR_R1113
DSC1128 ! X =   650.8000,   6055.800,    461.000,    0 !   !END!  GR_R1114
DSC1129 ! X =   651.0000,   6055.800,    461.000,    0 !   !END!  GR_R1115
DSC1130 ! X =   651.2000,   6055.800,    461.000,    0 !   !END!  GR_R1116
DSC1131 ! X =   651.4000,   6055.800,    461.000,    0 !   !END!  GR_R1117
DSC1132 ! X =   651.6000,   6055.800,    461.000,    0 !   !END!  GR_R1118
DSC1133 ! X =   651.8000,   6055.800,    461.000,    0 !   !END!  GR_R1119
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DSC1134 ! X =   652.0000,   6055.800,    461.000,    0 !   !END!  GR_R1120
DSC1135 ! X =   652.2000,   6055.800,    472.018,    0 !   !END!  GR_R1121
DSC1136 ! X =   652.4000,   6055.800,    466.123,    0 !   !END!  GR_R1122
DSC1137 ! X =   652.6000,   6055.800,    461.618,    0 !   !END!  GR_R1123
DSC1138 ! X =   652.8000,   6055.800,    461.000,    0 !   !END!  GR_R1124
DSC1139 ! X =   653.0000,   6055.800,    461.000,    0 !   !END!  GR_R1125
DSC1140 ! X =   653.2000,   6055.800,    461.000,    0 !   !END!  GR_R1126
DSC1141 ! X =   653.4000,   6055.800,    461.000,    0 !   !END!  GR_R1127
DSC1142 ! X =   653.6000,   6055.800,    462.000,    0 !   !END!  GR_R1128
DSC1143 ! X =   653.8000,   6055.800,    464.000,    0 !   !END!  GR_R1129
DSC1144 ! X =   654.0000,   6055.800,    468.671,    0 !   !END!  GR_R1130
DSC1145 ! X =   654.2000,   6055.800,    471.978,    0 !   !END!  GR_R1131
DSC1146 ! X =   654.4000,   6055.800,    468.576,    0 !   !END!  GR_R1132
DSC1147 ! X =   650.4000,   6056.000,    469.631,    0 !   !END!  GR_R1133
DSC1148 ! X =   650.6000,   6056.000,    461.000,    0 !   !END!  GR_R1134
DSC1149 ! X =   650.8000,   6056.000,    461.520,    0 !   !END!  GR_R1135
DSC1150 ! X =   651.0000,   6056.000,    461.000,    0 !   !END!  GR_R1136
DSC1151 ! X =   651.2000,   6056.000,    461.000,    0 !   !END!  GR_R1137
DSC1152 ! X =   651.4000,   6056.000,    461.000,    0 !   !END!  GR_R1138
DSC1153 ! X =   651.6000,   6056.000,    461.000,    0 !   !END!  GR_R1139
DSC1154 ! X =   651.8000,   6056.000,    461.000,    0 !   !END!  GR_R1140
DSC1155 ! X =   652.0000,   6056.000,    464.922,    0 !   !END!  GR_R1141
DSC1156 ! X =   652.2000,   6056.000,    461.000,    0 !   !END!  GR_R1142
DSC1157 ! X =   652.4000,   6056.000,    461.000,    0 !   !END!  GR_R1143
DSC1158 ! X =   652.6000,   6056.000,    461.000,    0 !   !END!  GR_R1144
DSC1159 ! X =   652.8000,   6056.000,    461.000,    0 !   !END!  GR_R1145
DSC1160 ! X =   653.0000,   6056.000,    461.000,    0 !   !END!  GR_R1146
DSC1161 ! X =   653.2000,   6056.000,    464.000,    0 !   !END!  GR_R1147
DSC1162 ! X =   653.4000,   6056.000,    464.770,    0 !   !END!  GR_R1148
DSC1163 ! X =   653.6000,   6056.000,    465.000,    0 !   !END!  GR_R1149
DSC1164 ! X =   653.8000,   6056.000,    465.197,    0 !   !END!  GR_R1150
DSC1165 ! X =   654.0000,   6056.000,    472.047,    0 !   !END!  GR_R1151
DSC1166 ! X =   654.2000,   6056.000,    472.000,    0 !   !END!  GR_R1152
DSC1167 ! X =   654.4000,   6056.000,    466.000,    0 !   !END!  GR_R1153
DSC1168 ! X =   650.4000,   6056.200,    461.000,    0 !   !END!  GR_R1154
DSC1169 ! X =   650.6000,   6056.200,    461.000,    0 !   !END!  GR_R1155
DSC1170 ! X =   650.8000,   6056.200,    475.026,    0 !   !END!  GR_R1156
DSC1171 ! X =   651.0000,   6056.200,    461.000,    0 !   !END!  GR_R1157
DSC1172 ! X =   651.2000,   6056.200,    461.000,    0 !   !END!  GR_R1158
DSC1173 ! X =   651.4000,   6056.200,    461.000,    0 !   !END!  GR_R1159
DSC1174 ! X =   651.6000,   6056.200,    461.000,    0 !   !END!  GR_R1160
DSC1175 ! X =   651.8000,   6056.200,    461.000,    0 !   !END!  GR_R1161
DSC1176 ! X =   652.0000,   6056.200,    461.000,    0 !   !END!  GR_R1162
DSC1177 ! X =   652.2000,   6056.200,    461.000,    0 !   !END!  GR_R1163
DSC1178 ! X =   652.4000,   6056.200,    461.000,    0 !   !END!  GR_R1164
DSC1179 ! X =   652.6000,   6056.200,    461.000,    0 !   !END!  GR_R1165
DSC1180 ! X =   652.8000,   6056.200,    461.211,    0 !   !END!  GR_R1166
DSC1181 ! X =   653.0000,   6056.200,    467.231,    0 !   !END!  GR_R1167
DSC1182 ! X =   653.2000,   6056.200,    468.000,    0 !   !END!  GR_R1168
DSC1183 ! X =   653.4000,   6056.200,    469.386,    0 !   !END!  GR_R1169
DSC1184 ! X =   653.6000,   6056.200,    468.000,    0 !   !END!  GR_R1170
DSC1185 ! X =   653.8000,   6056.200,    464.137,    0 !   !END!  GR_R1171
DSC1186 ! X =   654.0000,   6056.200,    467.931,    0 !   !END!  GR_R1172
DSC1187 ! X =   654.2000,   6056.200,    468.103,    0 !   !END!  GR_R1173
DSC1188 ! X =   654.4000,   6056.200,    466.053,    0 !   !END!  GR_R1174
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DSC1189 ! X =   650.4000,   6056.400,    462.568,    0 !   !END!  GR_R1175
DSC1190 ! X =   650.6000,   6056.400,    473.514,    0 !   !END!  GR_R1176
DSC1191 ! X =   650.8000,   6056.400,    476.157,    0 !   !END!  GR_R1177
DSC1192 ! X =   651.0000,   6056.400,    461.000,    0 !   !END!  GR_R1178
DSC1193 ! X =   651.2000,   6056.400,    461.000,    0 !   !END!  GR_R1179
DSC1194 ! X =   651.4000,   6056.400,    461.000,    0 !   !END!  GR_R1180
DSC1195 ! X =   651.6000,   6056.400,    461.000,    0 !   !END!  GR_R1181
DSC1196 ! X =   651.8000,   6056.400,    461.000,    0 !   !END!  GR_R1182
DSC1197 ! X =   652.0000,   6056.400,    461.000,    0 !   !END!  GR_R1183
DSC1198 ! X =   652.2000,   6056.400,    461.000,    0 !   !END!  GR_R1184
DSC1199 ! X =   652.4000,   6056.400,    461.000,    0 !   !END!  GR_R1185
DSC1200 ! X =   652.6000,   6056.400,    461.000,    0 !   !END!  GR_R1186
DSC1201 ! X =   652.8000,   6056.400,    474.880,    0 !   !END!  GR_R1187
DSC1202 ! X =   653.0000,   6056.400,    474.000,    0 !   !END!  GR_R1188
DSC1203 ! X =   653.2000,   6056.400,    472.000,    0 !   !END!  GR_R1189
DSC1204 ! X =   653.4000,   6056.400,    473.000,    0 !   !END!  GR_R1190
DSC1205 ! X =   653.6000,   6056.400,    467.656,    0 !   !END!  GR_R1191
DSC1206 ! X =   653.8000,   6056.400,    462.000,    0 !   !END!  GR_R1192
DSC1207 ! X =   654.0000,   6056.400,    461.939,    0 !   !END!  GR_R1193
DSC1208 ! X =   654.2000,   6056.400,    461.000,    0 !   !END!  GR_R1194
DSC1209 ! X =   654.4000,   6056.400,    463.000,    0 !   !END!  GR_R1195
DSC1210 ! X =   650.4000,   6056.600,    477.965,    0 !   !END!  GR_R1196
DSC1211 ! X =   650.6000,   6056.600,    475.326,    0 !   !END!  GR_R1197
DSC1212 ! X =   650.8000,   6056.600,    461.460,    0 !   !END!  GR_R1198
DSC1213 ! X =   651.0000,   6056.600,    461.000,    0 !   !END!  GR_R1199
DSC1214 ! X =   651.2000,   6056.600,    471.443,    0 !   !END!  GR_R1200
DSC1215 ! X =   651.4000,   6056.600,    462.287,    0 !   !END!  GR_R1201
DSC1216 ! X =   651.6000,   6056.600,    461.000,    0 !   !END!  GR_R1202
DSC1217 ! X =   651.8000,   6056.600,    461.000,    0 !   !END!  GR_R1203
DSC1218 ! X =   652.0000,   6056.600,    461.000,    0 !   !END!  GR_R1204
DSC1219 ! X =   652.2000,   6056.600,    474.806,    0 !   !END!  GR_R1205
DSC1220 ! X =   652.4000,   6056.600,    472.389,    0 !   !END!  GR_R1206
DSC1221 ! X =   652.6000,   6056.600,    474.136,    0 !   !END!  GR_R1207
DSC1222 ! X =   652.8000,   6056.600,    478.000,    0 !   !END!  GR_R1208
DSC1223 ! X =   653.0000,   6056.600,    477.000,    0 !   !END!  GR_R1209
DSC1224 ! X =   653.2000,   6056.600,    474.920,    0 !   !END!  GR_R1210
DSC1225 ! X =   653.4000,   6056.600,    472.627,    0 !   !END!  GR_R1211
DSC1226 ! X =   653.6000,   6056.600,    468.436,    0 !   !END!  GR_R1212
DSC1227 ! X =   653.8000,   6056.600,    461.000,    0 !   !END!  GR_R1213
DSC1228 ! X =   654.0000,   6056.600,    461.000,    0 !   !END!  GR_R1214
DSC1229 ! X =   654.2000,   6056.600,    461.000,    0 !   !END!  GR_R1215
DSC1230 ! X =   654.4000,   6056.600,    461.000,    0 !   !END!  GR_R1216
DSC1231 ! X =   650.4000,   6056.800,    473.077,    0 !   !END!  GR_R1217
DSC1232 ! X =   650.6000,   6056.800,    461.000,    0 !   !END!  GR_R1218
DSC1233 ! X =   650.8000,   6056.800,    463.861,    0 !   !END!  GR_R1219
DSC1234 ! X =   651.0000,   6056.800,    474.769,    0 !   !END!  GR_R1220
DSC1235 ! X =   651.2000,   6056.800,    467.538,    0 !   !END!  GR_R1221
DSC1236 ! X =   653.6000,   6056.800,    469.648,    0 !   !END!  GR_R1222
DSC1237 ! X =   653.8000,   6056.800,    463.662,    0 !   !END!  GR_R1223
DSC1238 ! X =   654.0000,   6056.800,    461.416,    0 !   !END!  GR_R1224
DSC1239 ! X =   654.2000,   6056.800,    461.000,    0 !   !END!  GR_R1225
DSC1240 ! X =   654.4000,   6056.800,    461.000,    0 !   !END!  GR_R1226
DSC1241 ! X =   650.4000,   6057.000,    466.469,    0 !   !END!  GR_R1227
DSC1242 ! X =   650.6000,   6057.000,    487.595,    0 !   !END!  GR_R1228
DSC1243 ! X =   650.8000,   6057.000,    488.075,    0 !   !END!  GR_R1229
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DSC1244 ! X =   651.0000,   6057.000,    475.990,    0 !   !END!  GR_R1230
DSC1245 ! X =   651.2000,   6057.000,    463.085,    0 !   !END!  GR_R1231
DSC1246 ! X =   653.6000,   6057.000,    470.576,    0 !   !END!  GR_R1232
DSC1247 ! X =   653.8000,   6057.000,    469.486,    0 !   !END!  GR_R1233
DSC1248 ! X =   654.0000,   6057.000,    462.000,    0 !   !END!  GR_R1234
DSC1249 ! X =   654.2000,   6057.000,    461.000,    0 !   !END!  GR_R1235
DSC1250 ! X =   654.4000,   6057.000,    461.000,    0 !   !END!  GR_R1236
DSC1251 ! X =   650.4000,   6057.200,    498.221,    0 !   !END!  GR_R1237
DSC1252 ! X =   650.6000,   6057.200,    503.566,    0 !   !END!  GR_R1238
DSC1253 ! X =   650.8000,   6057.200,    486.954,    0 !   !END!  GR_R1239
DSC1254 ! X =   653.6000,   6057.200,    473.000,    0 !   !END!  GR_R1240
DSC1255 ! X =   653.8000,   6057.200,    469.075,    0 !   !END!  GR_R1241
DSC1256 ! X =   654.0000,   6057.200,    461.000,    0 !   !END!  GR_R1242
DSC1257 ! X =   654.2000,   6057.200,    461.000,    0 !   !END!  GR_R1243
DSC1258 ! X =   654.4000,   6057.200,    461.000,    0 !   !END!  GR_R1244
DSC1259 ! X =   650.4000,   6057.400,    507.415,    0 !   !END!  GR_R1245
DSC1260 ! X =   650.6000,   6057.400,    495.915,    0 !   !END!  GR_R1246
DSC1261 ! X =   650.8000,   6057.400,    486.342,    0 !   !END!  GR_R1247
DSC1262 ! X =   653.6000,   6057.400,    472.000,    0 !   !END!  GR_R1248
DSC1263 ! X =   653.8000,   6057.400,    463.620,    0 !   !END!  GR_R1249
DSC1264 ! X =   654.0000,   6057.400,    461.000,    0 !   !END!  GR_R1250
DSC1265 ! X =   654.2000,   6057.400,    461.000,    0 !   !END!  GR_R1251
DSC1266 ! X =   654.4000,   6057.400,    461.000,    0 !   !END!  GR_R1252
DSC1267 ! X =   650.4000,   6057.600,    505.443,    0 !   !END!  GR_R1253
DSC1268 ! X =   650.6000,   6057.600,    488.800,    0 !   !END!  GR_R1254
DSC1269 ! X =   650.8000,   6057.600,    479.712,    0 !   !END!  GR_R1255
DSC1270 ! X =   653.6000,   6057.600,    468.194,    0 !   !END!  GR_R1256
DSC1271 ! X =   653.8000,   6057.600,    461.000,    0 !   !END!  GR_R1257
DSC1272 ! X =   654.0000,   6057.600,    461.000,    0 !   !END!  GR_R1258
DSC1273 ! X =   654.2000,   6057.600,    461.000,    0 !   !END!  GR_R1259
DSC1274 ! X =   654.4000,   6057.600,    461.000,    0 !   !END!  GR_R1260
DSC1275 ! X =   650.4000,   6057.800,    494.534,    0 !   !END!  GR_R1261
DSC1276 ! X =   650.6000,   6057.800,    483.050,    0 !   !END!  GR_R1262
DSC1277 ! X =   650.8000,   6057.800,    480.110,    0 !   !END!  GR_R1263
DSC1278 ! X =   653.6000,   6057.800,    461.000,    0 !   !END!  GR_R1264
DSC1279 ! X =   653.8000,   6057.800,    461.000,    0 !   !END!  GR_R1265
DSC1280 ! X =   654.0000,   6057.800,    461.000,    0 !   !END!  GR_R1266
DSC1281 ! X =   654.2000,   6057.800,    461.000,    0 !   !END!  GR_R1267
DSC1282 ! X =   654.4000,   6057.800,    467.170,    0 !   !END!  GR_R1268
DSC1283 ! X =   650.4000,   6058.000,    483.698,    0 !   !END!  GR_R1269
DSC1284 ! X =   650.6000,   6058.000,    483.019,    0 !   !END!  GR_R1270
DSC1285 ! X =   650.8000,   6058.000,    487.000,    0 !   !END!  GR_R1271
DSC1286 ! X =   653.6000,   6058.000,    461.000,    0 !   !END!  GR_R1272
DSC1287 ! X =   653.8000,   6058.000,    461.000,    0 !   !END!  GR_R1273
DSC1288 ! X =   654.0000,   6058.000,    461.000,    0 !   !END!  GR_R1274
DSC1289 ! X =   654.2000,   6058.000,    466.415,    0 !   !END!  GR_R1275
DSC1290 ! X =   654.4000,   6058.000,    488.094,    0 !   !END!  GR_R1276
DSC1291 ! X =   650.4000,   6058.200,    485.923,    0 !   !END!  GR_R1277
DSC1292 ! X =   650.6000,   6058.200,    487.000,    0 !   !END!  GR_R1278
DSC1293 ! X =   650.8000,   6058.200,    490.000,    0 !   !END!  GR_R1279
DSC1294 ! X =   653.6000,   6058.200,    461.000,    0 !   !END!  GR_R1280
DSC1295 ! X =   653.8000,   6058.200,    461.000,    0 !   !END!  GR_R1281
DSC1296 ! X =   654.0000,   6058.200,    461.000,    0 !   !END!  GR_R1282
DSC1297 ! X =   654.2000,   6058.200,    492.890,    0 !   !END!  GR_R1283
DSC1298 ! X =   654.4000,   6058.200,    480.613,    0 !   !END!  GR_R1284
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DSC1299 ! X =   650.4000,   6058.400,    488.000,    0 !   !END!  GR_R1285
DSC1300 ! X =   650.6000,   6058.400,    490.256,    0 !   !END!  GR_R1286
DSC1301 ! X =   650.8000,   6058.400,    491.258,    0 !   !END!  GR_R1287
DSC1302 ! X =   653.6000,   6058.400,    461.000,    0 !   !END!  GR_R1288
DSC1303 ! X =   653.8000,   6058.400,    461.000,    0 !   !END!  GR_R1289
DSC1304 ! X =   654.0000,   6058.400,    483.626,    0 !   !END!  GR_R1290
DSC1305 ! X =   654.2000,   6058.400,    481.808,    0 !   !END!  GR_R1291
DSC1306 ! X =   654.4000,   6058.400,    461.000,    0 !   !END!  GR_R1292
DSC1307 ! X =   650.4000,   6058.600,    491.194,    0 !   !END!  GR_R1293
DSC1308 ! X =   650.6000,   6058.600,    494.877,    0 !   !END!  GR_R1294
DSC1309 ! X =   650.8000,   6058.600,    495.000,    0 !   !END!  GR_R1295
DSC1310 ! X =   653.6000,   6058.600,    461.000,    0 !   !END!  GR_R1296
DSC1311 ! X =   653.8000,   6058.600,    469.752,    0 !   !END!  GR_R1297
DSC1312 ! X =   654.0000,   6058.600,    471.066,    0 !   !END!  GR_R1298
DSC1313 ! X =   654.2000,   6058.600,    461.000,    0 !   !END!  GR_R1299
DSC1314 ! X =   654.4000,   6058.600,    461.000,    0 !   !END!  GR_R1300
DSC1315 ! X =   650.4000,   6058.800,    499.786,    0 !   !END!  GR_R1301
DSC1316 ! X =   650.6000,   6058.800,    498.000,    0 !   !END!  GR_R1302
DSC1317 ! X =   650.8000,   6058.800,    498.000,    0 !   !END!  GR_R1303
DSC1318 ! X =   653.6000,   6058.800,    461.000,    0 !   !END!  GR_R1304
DSC1319 ! X =   653.8000,   6058.800,    466.169,    0 !   !END!  GR_R1305
DSC1320 ! X =   654.0000,   6058.800,    461.000,    0 !   !END!  GR_R1306
DSC1321 ! X =   654.2000,   6058.800,    461.000,    0 !   !END!  GR_R1307
DSC1322 ! X =   654.4000,   6058.800,    461.000,    0 !   !END!  GR_R1308
DSC1323 ! X =   650.4000,   6059.000,    503.000,    0 !   !END!  GR_R1309
DSC1324 ! X =   650.6000,   6059.000,    500.000,    0 !   !END!  GR_R1310
DSC1325 ! X =   650.8000,   6059.000,    497.000,    0 !   !END!  GR_R1311
DSC1326 ! X =   653.2000,   6059.000,    461.000,    0 !   !END!  GR_R1312
DSC1327 ! X =   653.4000,   6059.000,    461.000,    0 !   !END!  GR_R1313
DSC1328 ! X =   653.6000,   6059.000,    461.047,    0 !   !END!  GR_R1314
DSC1329 ! X =   653.8000,   6059.000,    461.000,    0 !   !END!  GR_R1315
DSC1330 ! X =   654.0000,   6059.000,    461.000,    0 !   !END!  GR_R1316
DSC1331 ! X =   654.2000,   6059.000,    461.000,    0 !   !END!  GR_R1317
DSC1332 ! X =   654.4000,   6059.000,    461.000,    0 !   !END!  GR_R1318
DSC1333 ! X =   650.4000,   6059.200,    503.000,    0 !   !END!  GR_R1319
DSC1334 ! X =   650.6000,   6059.200,    499.622,    0 !   !END!  GR_R1320
DSC1335 ! X =   650.8000,   6059.200,    492.415,    0 !   !END!  GR_R1321
DSC1336 ! X =   653.2000,   6059.200,    461.000,    0 !   !END!  GR_R1322
DSC1337 ! X =   653.4000,   6059.200,    461.000,    0 !   !END!  GR_R1323
DSC1338 ! X =   653.6000,   6059.200,    461.000,    0 !   !END!  GR_R1324
DSC1339 ! X =   653.8000,   6059.200,    461.000,    0 !   !END!  GR_R1325
DSC1340 ! X =   654.0000,   6059.200,    461.000,    0 !   !END!  GR_R1326
DSC1341 ! X =   654.2000,   6059.200,    461.000,    0 !   !END!  GR_R1327
DSC1342 ! X =   654.4000,   6059.200,    469.096,    0 !   !END!  GR_R1328
DSC1343 ! X =   650.4000,   6059.400,    503.000,    0 !   !END!  GR_R1329
DSC1344 ! X =   650.6000,   6059.400,    500.768,    0 !   !END!  GR_R1330
DSC1345 ! X =   650.8000,   6059.400,    487.258,    0 !   !END!  GR_R1331
DSC1346 ! X =   651.0000,   6059.400,    484.608,    0 !   !END!  GR_R1332
DSC1347 ! X =   651.2000,   6059.400,    479.504,    0 !   !END!  GR_R1333
DSC1348 ! X =   651.4000,   6059.400,    474.516,    0 !   !END!  GR_R1334
DSC1349 ! X =   651.6000,   6059.400,    470.143,    0 !   !END!  GR_R1335
DSC1350 ! X =   651.8000,   6059.400,    467.409,    0 !   !END!  GR_R1336
DSC1351 ! X =   652.0000,   6059.400,    478.299,    0 !   !END!  GR_R1337
DSC1352 ! X =   652.2000,   6059.400,    476.010,    0 !   !END!  GR_R1338
DSC1353 ! X =   652.4000,   6059.400,    468.472,    0 !   !END!  GR_R1339
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DSC1354 ! X =   652.6000,   6059.400,    465.000,    0 !   !END!  GR_R1340
DSC1355 ! X =   652.8000,   6059.400,    467.922,    0 !   !END!  GR_R1341
DSC1356 ! X =   653.0000,   6059.400,    461.000,    0 !   !END!  GR_R1342
DSC1357 ! X =   653.2000,   6059.400,    461.000,    0 !   !END!  GR_R1343
DSC1358 ! X =   653.4000,   6059.400,    461.000,    0 !   !END!  GR_R1344
DSC1359 ! X =   653.6000,   6059.400,    461.000,    0 !   !END!  GR_R1345
DSC1360 ! X =   653.8000,   6059.400,    461.000,    0 !   !END!  GR_R1346
DSC1361 ! X =   654.0000,   6059.400,    461.000,    0 !   !END!  GR_R1347
DSC1362 ! X =   654.2000,   6059.400,    461.000,    0 !   !END!  GR_R1348
DSC1363 ! X =   654.4000,   6059.400,    472.097,    0 !   !END!  GR_R1349
DSC1364 ! X =   650.4000,   6059.600,    503.133,    0 !   !END!  GR_R1350
DSC1365 ! X =   650.6000,   6059.600,    499.634,    0 !   !END!  GR_R1351
DSC1366 ! X =   650.8000,   6059.600,    488.000,    0 !   !END!  GR_R1352
DSC1367 ! X =   651.0000,   6059.600,    477.957,    0 !   !END!  GR_R1353
DSC1368 ! X =   651.2000,   6059.600,    473.856,    0 !   !END!  GR_R1354
DSC1369 ! X =   651.4000,   6059.600,    470.802,    0 !   !END!  GR_R1355
DSC1370 ! X =   651.6000,   6059.600,    477.541,    0 !   !END!  GR_R1356
DSC1371 ! X =   651.8000,   6059.600,    483.342,    0 !   !END!  GR_R1357
DSC1372 ! X =   652.0000,   6059.600,    485.965,    0 !   !END!  GR_R1358
DSC1373 ! X =   652.2000,   6059.600,    478.000,    0 !   !END!  GR_R1359
DSC1374 ! X =   652.4000,   6059.600,    465.000,    0 !   !END!  GR_R1360
DSC1375 ! X =   652.6000,   6059.600,    465.000,    0 !   !END!  GR_R1361
DSC1376 ! X =   652.8000,   6059.600,    463.252,    0 !   !END!  GR_R1362
DSC1377 ! X =   653.0000,   6059.600,    461.000,    0 !   !END!  GR_R1363
DSC1378 ! X =   653.2000,   6059.600,    461.000,    0 !   !END!  GR_R1364
DSC1379 ! X =   653.4000,   6059.600,    461.000,    0 !   !END!  GR_R1365
DSC1380 ! X =   653.6000,   6059.600,    461.000,    0 !   !END!  GR_R1366
DSC1381 ! X =   653.8000,   6059.600,    461.000,    0 !   !END!  GR_R1367
DSC1382 ! X =   654.0000,   6059.600,    461.000,    0 !   !END!  GR_R1368
DSC1383 ! X =   654.2000,   6059.600,    461.000,    0 !   !END!  GR_R1369
DSC1384 ! X =   654.4000,   6059.600,    486.806,    0 !   !END!  GR_R1370
DSC1385 ! X =   650.4000,   6059.800,    498.000,    0 !   !END!  GR_R1371
DSC1386 ! X =   650.6000,   6059.800,    493.538,    0 !   !END!  GR_R1372
DSC1387 ! X =   650.8000,   6059.800,    481.642,    0 !   !END!  GR_R1373
DSC1388 ! X =   651.0000,   6059.800,    473.985,    0 !   !END!  GR_R1374
DSC1389 ! X =   651.2000,   6059.800,    470.738,    0 !   !END!  GR_R1375
DSC1390 ! X =   651.4000,   6059.800,    481.450,    0 !   !END!  GR_R1376
DSC1391 ! X =   651.6000,   6059.800,    488.876,    0 !   !END!  GR_R1377
DSC1392 ! X =   651.8000,   6059.800,    497.747,    0 !   !END!  GR_R1378
DSC1393 ! X =   652.0000,   6059.800,    486.461,    0 !   !END!  GR_R1379
DSC1394 ! X =   652.2000,   6059.800,    471.466,    0 !   !END!  GR_R1380
DSC1395 ! X =   652.4000,   6059.800,    465.000,    0 !   !END!  GR_R1381
DSC1396 ! X =   652.6000,   6059.800,    463.000,    0 !   !END!  GR_R1382
DSC1397 ! X =   652.8000,   6059.800,    461.000,    0 !   !END!  GR_R1383
DSC1398 ! X =   653.0000,   6059.800,    461.000,    0 !   !END!  GR_R1384
DSC1399 ! X =   653.2000,   6059.800,    461.000,    0 !   !END!  GR_R1385
DSC1400 ! X =   653.4000,   6059.800,    461.000,    0 !   !END!  GR_R1386
DSC1401 ! X =   653.6000,   6059.800,    461.000,    0 !   !END!  GR_R1387
DSC1402 ! X =   653.8000,   6059.800,    461.000,    0 !   !END!  GR_R1388
DSC1403 ! X =   654.0000,   6059.800,    461.000,    0 !   !END!  GR_R1389
DSC1404 ! X =   654.2000,   6059.800,    463.381,    0 !   !END!  GR_R1390
DSC1405 ! X =   654.4000,   6059.800,    502.918,    0 !   !END!  GR_R1391
DSC1406 ! X =   650.0000,   6056.200,    486.142,    0 !   !END!  GR_R1392
DSC1407 ! X =   650.2000,   6056.200,    471.742,    0 !   !END!  GR_R1393
DSC1408 ! X =   650.0000,   6056.400,    475.088,    0 !   !END!  GR_R1394
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DSC1409 ! X =   650.2000,   6056.400,    464.632,    0 !   !END!  GR_R1395
DSC1410 ! X =   650.0000,   6056.600,    465.094,    0 !   !END!  GR_R1396
DSC1411 ! X =   650.2000,   6056.600,    461.466,    0 !   !END!  GR_R1397
DSC1412 ! X =   650.0000,   6056.800,    475.132,    0 !   !END!  GR_R1398
DSC1413 ! X =   650.2000,   6056.800,    476.000,    0 !   !END!  GR_R1399
DSC1414 ! X =   650.0000,   6057.000,    479.774,    0 !   !END!  GR_R1400
DSC1415 ! X =   650.2000,   6057.000,    478.269,    0 !   !END!  GR_R1401
DSC1416 ! X =   650.0000,   6057.200,    485.395,    0 !   !END!  GR_R1402
DSC1417 ! X =   650.2000,   6057.200,    488.819,    0 !   !END!  GR_R1403
DSC1418 ! X =   650.0000,   6057.400,    499.378,    0 !   !END!  GR_R1404
DSC1419 ! X =   650.2000,   6057.400,    514.640,    0 !   !END!  GR_R1405
DSC1420 ! X =   650.0000,   6057.600,    519.359,    0 !   !END!  GR_R1406
DSC1421 ! X =   650.2000,   6057.600,    518.198,    0 !   !END!  GR_R1407
DSC1422 ! X =   650.0000,   6057.800,    521.000,    0 !   !END!  GR_R1408
DSC1423 ! X =   650.2000,   6057.800,    518.810,    0 !   !END!  GR_R1409
DSC1424 ! X =   650.0000,   6058.000,    521.000,    0 !   !END!  GR_R1410
DSC1425 ! X =   650.2000,   6058.000,    505.819,    0 !   !END!  GR_R1411
DSC1426 ! X =   650.0000,   6058.200,    514.041,    0 !   !END!  GR_R1412
DSC1427 ! X =   650.2000,   6058.200,    491.000,    0 !   !END!  GR_R1413
DSC1428 ! X =   650.0000,   6058.400,    506.907,    0 !   !END!  GR_R1414
DSC1429 ! X =   650.2000,   6058.400,    490.494,    0 !   !END!  GR_R1415
DSC1430 ! X =   650.0000,   6058.600,    500.264,    0 !   !END!  GR_R1416
DSC1431 ! X =   650.2000,   6058.600,    493.842,    0 !   !END!  GR_R1417
DSC1432 ! X =   650.0000,   6058.800,    495.719,    0 !   !END!  GR_R1418
DSC1433 ! X =   650.2000,   6058.800,    491.322,    0 !   !END!  GR_R1419
DSC1434 ! X =   650.0000,   6059.000,    495.254,    0 !   !END!  GR_R1420
DSC1435 ! X =   650.2000,   6059.000,    503.147,    0 !   !END!  GR_R1421
DSC1436 ! X =   650.0000,   6059.200,    504.370,    0 !   !END!  GR_R1422
DSC1437 ! X =   650.2000,   6059.200,    503.111,    0 !   !END!  GR_R1423
DSC1438 ! X =   650.0000,   6059.400,    516.016,    0 !   !END!  GR_R1424
DSC1439 ! X =   650.2000,   6059.400,    506.869,    0 !   !END!  GR_R1425
DSC1440 ! X =   650.0000,   6059.600,    515.039,    0 !   !END!  GR_R1426
DSC1441 ! X =   650.2000,   6059.600,    507.374,    0 !   !END!  GR_R1427
DSC1442 ! X =   650.0000,   6059.800,    513.405,    0 !   !END!  GR_R1428
DSC1443 ! X =   650.2000,   6059.800,    505.000,    0 !   !END!  GR_R1429
DSC1444 ! X =   650.0000,   6060.000,    505.923,    0 !   !END!  GR_R1430
DSC1445 ! X =   650.2000,   6060.000,    503.000,    0 !   !END!  GR_R1431
DSC1446 ! X =   650.4000,   6060.000,    496.515,    0 !   !END!  GR_R1432
DSC1447 ! X =   650.6000,   6060.000,    483.067,    0 !   !END!  GR_R1433
DSC1448 ! X =   650.8000,   6060.000,    468.000,    0 !   !END!  GR_R1434
DSC1449 ! X =   651.0000,   6060.000,    473.973,    0 !   !END!  GR_R1435
DSC1450 ! X =   651.2000,   6060.000,    483.325,    0 !   !END!  GR_R1436
DSC1451 ! X =   651.4000,   6060.000,    492.982,    0 !   !END!  GR_R1437
DSC1452 ! X =   651.6000,   6060.000,    503.000,    0 !   !END!  GR_R1438
DSC1453 ! X =   651.8000,   6060.000,    498.130,    0 !   !END!  GR_R1439
DSC1454 ! X =   652.0000,   6060.000,    476.456,    0 !   !END!  GR_R1440
DSC1455 ! X =   652.2000,   6060.000,    465.914,    0 !   !END!  GR_R1441
DSC1456 ! X =   652.4000,   6060.000,    463.879,    0 !   !END!  GR_R1442
DSC1457 ! X =   652.6000,   6060.000,    461.000,    0 !   !END!  GR_R1443
DSC1458 ! X =   652.8000,   6060.000,    461.000,    0 !   !END!  GR_R1444
DSC1459 ! X =   653.0000,   6060.000,    461.000,    0 !   !END!  GR_R1445
DSC1460 ! X =   653.2000,   6060.000,    461.000,    0 !   !END!  GR_R1446
DSC1461 ! X =   653.4000,   6060.000,    461.000,    0 !   !END!  GR_R1447
DSC1462 ! X =   653.6000,   6060.000,    461.000,    0 !   !END!  GR_R1448
DSC1463 ! X =   653.8000,   6060.000,    461.000,    0 !   !END!  GR_R1449
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DSC1464 ! X =   654.0000,   6060.000,    461.000,    0 !   !END!  GR_R1450
DSC1465 ! X =   650.0000,   6060.200,    497.302,    0 !   !END!  GR_R1451
DSC1466 ! X =   650.2000,   6060.200,    502.171,    0 !   !END!  GR_R1452
DSC1467 ! X =   650.4000,   6060.200,    488.894,    0 !   !END!  GR_R1453
DSC1468 ! X =   650.6000,   6060.200,    472.013,    0 !   !END!  GR_R1454
DSC1469 ! X =   650.8000,   6060.200,    474.550,    0 !   !END!  GR_R1455
DSC1470 ! X =   651.0000,   6060.200,    489.108,    0 !   !END!  GR_R1456
DSC1471 ! X =   651.2000,   6060.200,    492.880,    0 !   !END!  GR_R1457
DSC1472 ! X =   651.4000,   6060.200,    502.541,    0 !   !END!  GR_R1458
DSC1473 ! X =   651.6000,   6060.200,    499.474,    0 !   !END!  GR_R1459
DSC1474 ! X =   651.8000,   6060.200,    492.803,    0 !   !END!  GR_R1460
DSC1475 ! X =   652.0000,   6060.200,    476.918,    0 !   !END!  GR_R1461
DSC1476 ! X =   652.2000,   6060.200,    467.178,    0 !   !END!  GR_R1462
DSC1477 ! X =   652.4000,   6060.200,    461.000,    0 !   !END!  GR_R1463
DSC1478 ! X =   652.6000,   6060.200,    461.000,    0 !   !END!  GR_R1464
DSC1479 ! X =   652.8000,   6060.200,    461.000,    0 !   !END!  GR_R1465
DSC1480 ! X =   653.0000,   6060.200,    461.000,    0 !   !END!  GR_R1466
DSC1481 ! X =   653.2000,   6060.200,    462.000,    0 !   !END!  GR_R1467
DSC1482 ! X =   653.4000,   6060.200,    461.000,    0 !   !END!  GR_R1468
DSC1483 ! X =   653.6000,   6060.200,    461.000,    0 !   !END!  GR_R1469
DSC1484 ! X =   653.8000,   6060.200,    462.753,    0 !   !END!  GR_R1470
DSC1485 ! X =   654.0000,   6060.200,    492.818,    0 !   !END!  GR_R1471
DSC1486 ! X =   648.7000,   6055.500,    487.966,    0 !   !END!  GR_R1472
DSC1487 ! X =   649.2000,   6055.500,    501.324,    0 !   !END!  GR_R1473
DSC1488 ! X =   649.7000,   6055.500,    518.450,    0 !   !END!  GR_R1474
DSC1489 ! X =   650.2000,   6055.500,    495.078,    0 !   !END!  GR_R1475
DSC1490 ! X =   650.7000,   6055.500,    482.176,    0 !   !END!  GR_R1476
DSC1491 ! X =   651.2000,   6055.500,    461.000,    0 !   !END!  GR_R1477
DSC1492 ! X =   651.7000,   6055.500,    461.000,    0 !   !END!  GR_R1478
DSC1493 ! X =   652.2000,   6055.500,    461.000,    0 !   !END!  GR_R1479
DSC1494 ! X =   652.7000,   6055.500,    464.771,    0 !   !END!  GR_R1480
DSC1495 ! X =   653.2000,   6055.500,    461.000,    0 !   !END!  GR_R1481
DSC1496 ! X =   653.7000,   6055.500,    467.947,    0 !   !END!  GR_R1482
DSC1497 ! X =   654.2000,   6055.500,    470.954,    0 !   !END!  GR_R1483
DSC1498 ! X =   654.7000,   6055.500,    466.688,    0 !   !END!  GR_R1484
DSC1499 ! X =   648.7000,   6056.000,    503.518,    0 !   !END!  GR_R1485
DSC1500 ! X =   649.2000,   6056.000,    519.158,    0 !   !END!  GR_R1486
DSC1501 ! X =   649.7000,   6056.000,    496.902,    0 !   !END!  GR_R1487
DSC1502 ! X =   650.2000,   6056.000,    480.858,    0 !   !END!  GR_R1488
DSC1503 ! X =   654.7000,   6056.000,    461.000,    0 !   !END!  GR_R1489
DSC1504 ! X =   648.7000,   6056.500,    500.359,    0 !   !END!  GR_R1490
DSC1505 ! X =   649.2000,   6056.500,    493.640,    0 !   !END!  GR_R1491
DSC1506 ! X =   649.7000,   6056.500,    482.456,    0 !   !END!  GR_R1492
DSC1507 ! X =   654.7000,   6056.500,    461.000,    0 !   !END!  GR_R1493
DSC1508 ! X =   648.7000,   6057.000,    488.243,    0 !   !END!  GR_R1494
DSC1509 ! X =   649.2000,   6057.000,    475.000,    0 !   !END!  GR_R1495
DSC1510 ! X =   649.7000,   6057.000,    477.736,    0 !   !END!  GR_R1496
DSC1511 ! X =   654.7000,   6057.000,    461.000,    0 !   !END!  GR_R1497
DSC1512 ! X =   648.7000,   6057.500,    478.980,    0 !   !END!  GR_R1498
DSC1513 ! X =   649.2000,   6057.500,    533.402,    0 !   !END!  GR_R1499
DSC1514 ! X =   649.7000,   6057.500,    494.972,    0 !   !END!  GR_R1500
DSC1515 ! X =   654.7000,   6057.500,    461.000,    0 !   !END!  GR_R1501
DSC1516 ! X =   648.7000,   6058.000,    504.224,    0 !   !END!  GR_R1502
DSC1517 ! X =   649.2000,   6058.000,    521.994,    0 !   !END!  GR_R1503
DSC1518 ! X =   649.7000,   6058.000,    525.251,    0 !   !END!  GR_R1504
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DSC1519 ! X =   654.7000,   6058.000,    463.462,    0 !   !END!  GR_R1505
DSC1520 ! X =   648.7000,   6058.500,    548.688,    0 !   !END!  GR_R1506
DSC1521 ! X =   649.2000,   6058.500,    512.000,    0 !   !END!  GR_R1507
DSC1522 ! X =   649.7000,   6058.500,    521.000,    0 !   !END!  GR_R1508
DSC1523 ! X =   654.7000,   6058.500,    461.000,    0 !   !END!  GR_R1509
DSC1524 ! X =   648.7000,   6059.000,    524.174,    0 !   !END!  GR_R1510
DSC1525 ! X =   649.2000,   6059.000,    530.885,    0 !   !END!  GR_R1511
DSC1526 ! X =   649.7000,   6059.000,    499.014,    0 !   !END!  GR_R1512
DSC1527 ! X =   654.7000,   6059.000,    466.323,    0 !   !END!  GR_R1513
DSC1528 ! X =   648.7000,   6059.500,    502.000,    0 !   !END!  GR_R1514
DSC1529 ! X =   649.2000,   6059.500,    497.000,    0 !   !END!  GR_R1515
DSC1530 ! X =   649.7000,   6059.500,    513.162,    0 !   !END!  GR_R1516
DSC1531 ! X =   654.7000,   6059.500,    518.737,    0 !   !END!  GR_R1517
DSC1532 ! X =   648.7000,   6060.000,    497.000,    0 !   !END!  GR_R1518
DSC1533 ! X =   649.2000,   6060.000,    518.420,    0 !   !END!  GR_R1519
DSC1534 ! X =   649.7000,   6060.000,    517.213,    0 !   !END!  GR_R1520
DSC1535 ! X =   654.2000,   6060.000,    492.022,    0 !   !END!  GR_R1521
DSC1536 ! X =   654.7000,   6060.000,    531.672,    0 !   !END!  GR_R1522
DSC1537 ! X =   648.7000,   6060.500,    537.227,    0 !   !END!  GR_R1523
DSC1538 ! X =   649.2000,   6060.500,    512.747,    0 !   !END!  GR_R1524
DSC1539 ! X =   649.7000,   6060.500,    500.093,    0 !   !END!  GR_R1525
DSC1540 ! X =   650.2000,   6060.500,    469.293,    0 !   !END!  GR_R1526
DSC1541 ! X =   650.7000,   6060.500,    504.626,    0 !   !END!  GR_R1527
DSC1542 ! X =   651.2000,   6060.500,    504.090,    0 !   !END!  GR_R1528
DSC1543 ! X =   651.7000,   6060.500,    486.810,    0 !   !END!  GR_R1529
DSC1544 ! X =   652.2000,   6060.500,    461.000,    0 !   !END!  GR_R1530
DSC1545 ! X =   652.7000,   6060.500,    467.234,    0 !   !END!  GR_R1531
DSC1546 ! X =   653.2000,   6060.500,    461.000,    0 !   !END!  GR_R1532
DSC1547 ! X =   653.7000,   6060.500,    488.000,    0 !   !END!  GR_R1533
DSC1548 ! X =   654.2000,   6060.500,    517.042,    0 !   !END!  GR_R1534
DSC1549 ! X =   654.7000,   6060.500,    531.098,    0 !   !END!  GR_R1535
DSC1550 ! X =   648.7000,   6061.000,    525.985,    0 !   !END!  GR_R1536
DSC1551 ! X =   649.2000,   6061.000,    503.799,    0 !   !END!  GR_R1537
DSC1552 ! X =   649.7000,   6061.000,    474.107,    0 !   !END!  GR_R1538
DSC1553 ! X =   650.2000,   6061.000,    497.842,    0 !   !END!  GR_R1539
DSC1554 ! X =   650.7000,   6061.000,    505.603,    0 !   !END!  GR_R1540
DSC1555 ! X =   651.2000,   6061.000,    495.090,    0 !   !END!  GR_R1541
DSC1556 ! X =   651.7000,   6061.000,    471.738,    0 !   !END!  GR_R1542
DSC1557 ! X =   652.2000,   6061.000,    465.000,    0 !   !END!  GR_R1543
DSC1558 ! X =   652.7000,   6061.000,    479.107,    0 !   !END!  GR_R1544
DSC1559 ! X =   653.2000,   6061.000,    490.442,    0 !   !END!  GR_R1545
DSC1560 ! X =   653.7000,   6061.000,    502.786,    0 !   !END!  GR_R1546
DSC1561 ! X =   654.2000,   6061.000,    523.198,    0 !   !END!  GR_R1547
DSC1562 ! X =   654.7000,   6061.000,    521.000,    0 !   !END!  GR_R1548
DSC1563 ! X =   648.7000,   6061.500,    503.849,    0 !   !END!  GR_R1549
DSC1564 ! X =   649.2000,   6061.500,    492.057,    0 !   !END!  GR_R1550
DSC1565 ! X =   649.7000,   6061.500,    519.014,    0 !   !END!  GR_R1551
DSC1566 ! X =   650.2000,   6061.500,    521.545,    0 !   !END!  GR_R1552
DSC1567 ! X =   650.7000,   6061.500,    505.000,    0 !   !END!  GR_R1553
DSC1568 ! X =   651.2000,   6061.500,    469.000,    0 !   !END!  GR_R1554
DSC1569 ! X =   651.7000,   6061.500,    465.000,    0 !   !END!  GR_R1555
DSC1570 ! X =   652.2000,   6061.500,    464.363,    0 !   !END!  GR_R1556
DSC1571 ! X =   652.7000,   6061.500,    482.205,    0 !   !END!  GR_R1557
DSC1572 ! X =   653.2000,   6061.500,    517.513,    0 !   !END!  GR_R1558
DSC1573 ! X =   653.7000,   6061.500,    537.243,    0 !   !END!  GR_R1559
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 DSC1574 ! X =   654.2000,   6061.500,    534.000,    0 !   !END!  GR_R1560
 DSC1575 ! X =   654.7000,   6061.500,    515.087,    0 !   !END!  GR_R1561
 DSC1576 ! X =   648.7000,   6062.000,    503.000,    0 !   !END!  GR_R1562
 DSC1577 ! X =   649.2000,   6062.000,    535.555,    0 !   !END!  GR_R1563
 DSC1578 ! X =   649.7000,   6062.000,    543.646,    0 !   !END!  GR_R1564
 DSC1579 ! X =   650.2000,   6062.000,    500.453,    0 !   !END!  GR_R1565
 DSC1580 ! X =   650.7000,   6062.000,    483.282,    0 !   !END!  GR_R1566
 DSC1581 ! X =   651.2000,   6062.000,    465.000,    0 !   !END!  GR_R1567
 DSC1582 ! X =   651.7000,   6062.000,    465.000,    0 !   !END!  GR_R1568
 DSC1583 ! X =   652.2000,   6062.000,    472.596,    0 !   !END!  GR_R1569
 DSC1584 ! X =   652.7000,   6062.000,    517.279,    0 !   !END!  GR_R1570
 DSC1585 ! X =   653.2000,   6062.000,    524.662,    0 !   !END!  GR_R1571
 DSC1586 ! X =   653.7000,   6062.000,    537.000,    0 !   !END!  GR_R1572
 DSC1587 ! X =   654.2000,   6062.000,    526.981,    0 !   !END!  GR_R1573
 DSC1588 ! X =   654.7000,   6062.000,    512.845,    0 !   !END!  GR_R1574
 DSC1589 ! X =   648.7000,   6062.500,    504.931,    0 !   !END!  GR_R1575
 DSC1590 ! X =   649.2000,   6062.500,    550.664,    0 !   !END!  GR_R1576
 DSC1591 ! X =   649.7000,   6062.500,    506.461,    0 !   !END!  GR_R1577
 DSC1592 ! X =   650.2000,   6062.500,    503.549,    0 !   !END!  GR_R1578
 DSC1593 ! X =   650.7000,   6062.500,    487.832,    0 !   !END!  GR_R1579
 DSC1594 ! X =   651.2000,   6062.500,    471.980,    0 !   !END!  GR_R1580
 DSC1595 ! X =   651.7000,   6062.500,    492.221,    0 !   !END!  GR_R1581
 DSC1596 ! X =   652.2000,   6062.500,    534.616,    0 !   !END!  GR_R1582
 DSC1597 ! X =   652.7000,   6062.500,    530.274,    0 !   !END!  GR_R1583
 DSC1598 ! X =   653.2000,   6062.500,    540.006,    0 !   !END!  GR_R1584
 DSC1599 ! X =   653.7000,   6062.500,    528.919,    0 !   !END!  GR_R1585
 DSC1600 ! X =   654.2000,   6062.500,    525.746,    0 !   !END!  GR_R1586
 DSC1601 ! X =   654.7000,   6062.500,    544.006,    0 !   !END!  GR_R1587
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a

Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

b

Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.