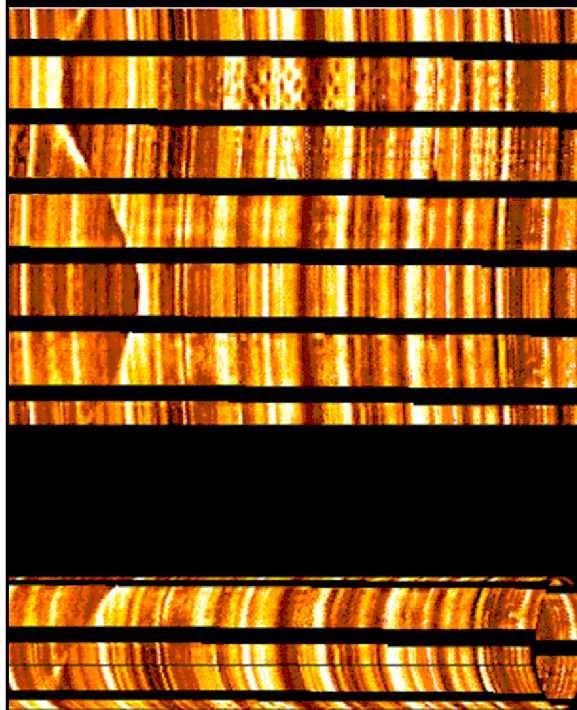


Borehole Image Processing



STAR IMAGE PROCESSING & INTERPRETATION

COMPANY NALCOR ENERGY INC.

WELL NALCOR ET AL FINNEGAN #1

FIELD FINNEGAN

PROVINCE NEWFOUNDLAND AND LABRADOR

LOCATION:

LAT 49.920 N LONG 63.330 W

ELEVATIONS:

KB 125.00 M DF GL 118.75 M

DATE 02-NOV-2010 ECC 208041

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
<u>444.5 MM</u>	<u>0.0 M</u>	<u>570.0 M</u>
<u>311.0 MM</u>	<u>570.0 M</u>	<u>2285.0 M</u>

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
<u>339.7 MM</u>	<u>81.1 KG/M</u>	<u>K-55</u>	<u>0.0 M</u>	<u>570.0 M</u>
<u>244.5 MM</u>				

REMARKS

TIME STOPPED CIRCULATION: 02-NOV-2010 03:00 AM

SAMPLE MEASURED: RM 1.078 @ 8.3 DEG

RMF 0.916 @ 8.3 DEG

RMC 2.278 @ 8.3 DEG

CABLEHEAD THERMOMETER READINGS: 54 DEG

STAR RUN WITH 5%-8% PAD FORCE AND AUTOMATICALLY CONTROLLED GAINS
ANY STICK AND PULL AFFECTS LOG QUALITY

RIG: STONEHAM 11

CREW:

S.CREWE, B.BARSS, M.BAHAR, J.HENNESSEY, K.HASIUK, J.WOODS, J.JEWEL, R.PERRY.

IMAGE PROCESSED & INTERPRETED BY: MERQUANE FOUJ

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	2	SWIVEL	3944XB	73682	FREE
1	2	DHPA	4430XB	10152148	FREE
1	2	TTMA	3981XB	152403	FREE
1	2	COMM	3514XB	150740	FREE
1	2	WTS DGR/SLJ	1329XB	370830	FREE
1	2	WTS DBL KNJ	3939XA	10238695	FREE
1	2	ORIT	4401XB	166976	FREE
1	2	STAR II PS	1022PA	184596	FREE
1	2	F/ GOM	1036EA	10379942	FREE
1	2	STAR MANDRE	4236MA	10103666	6-PAD DEVICE
1	2	WTS ISO SUB	3992XA	176946	FREE
1	2	FOC/WTS TR	3526EB	10108224	FREE
1	2	FOC/WTS PWR	3526FB	10127059	FREE
1	2	DBL KNJT	3931XA	10334137	FREE
1	2	TTMA SUB	3980XA	10091959	FREE
1	2	FOCUS CN	2436XA	10394243	DECENTRALIZED
1	2	FOCUS ZDEN	2223XA	10116105	PAD DEVICE
1	2	DBL KNJT	3931XA	10480674	FREE
1	2	ALGNMNT SUB	4408NA	402986	FREE
1	2	FOCUS ZDEN	2223XA	10141929	PAD DEVICE
1	2	DBL KNJT	3931XA	10480675	FREE
1	2	FOCUS HDIL	1530XA	402505	STANDOFF

REMARK : DIPS USED ARE

FAULT : FAULT

CFRAC:Conductive Fracture

Narrow planar feature, continuous around the borehole with high conductivity (Dark), usually interpreted as open fracture

CFRAC DISC:Conductive Fracture Discontinue

Similar to above discription, discontinuous around the borehole

RFRAC :Resistive Fracture

Narrow planar fracture, continuous around the borehole filled resistive material (appear Bright on STAR image) usually interpreted as close fracture.

RFRAC DISC:Resistive Fracture Discontinue

Similar to above discription, discontinue around the borehole

MFRAC :Mixed Fracture

Narrow planar feature, continues around the borehole ,MIXED character on STAR (partially conductive and/or resistive ,appear with low and high amplitude on CBIL image

MFRAC DISC:Mixed Fracture Discontinue

Similar to above discription, discontinuous around the borehole

IFRAC :Drilling Induced Fracture

Thin dark, conductive or low amplitude (mud-filled) with very high dip. this may include some stress-enhanced natural fractures

BEDDING :Formation bedding features are shale, sandstone, mustone, or limestone lithology

IMAGE ORIENTED TO THE NORTH

DEPTH RANGE: 571.00-2260.00 METRES
SCALE 1/20

STAR Resistivity Image

Hole Shape & Deviation

500 CAL 0

mm

Static Normalization

MANUAL

0.0 1.0
STARM_STEFC 360

Dips

FAULT

CFRAC RFRAC MFRAC CFRAC DISC RFRAC DISC IFRAC 

ANNUAL:DIP	90
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Dynamic Normalization

STARM_DYEFC 360

1:20
METRES
MD

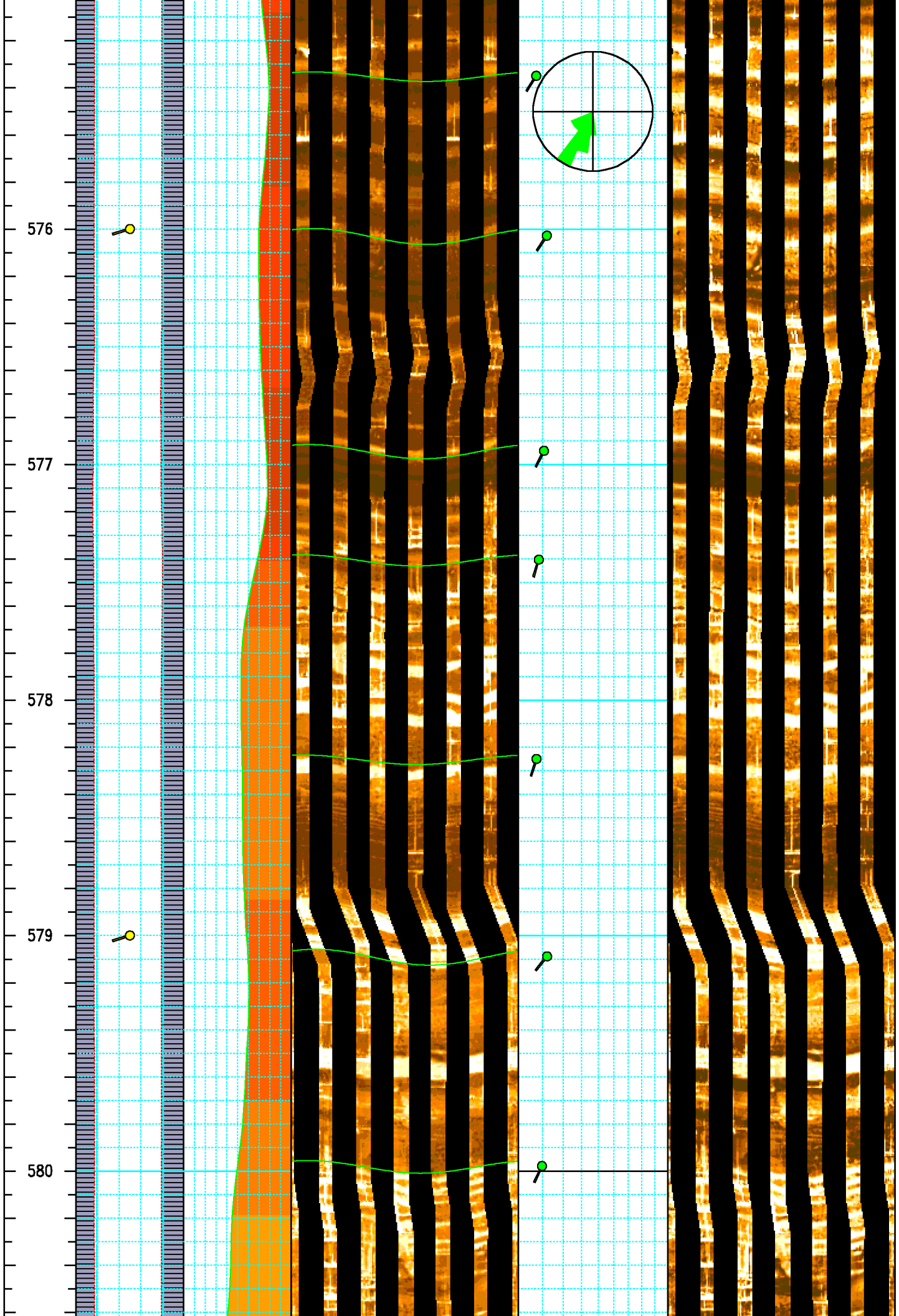
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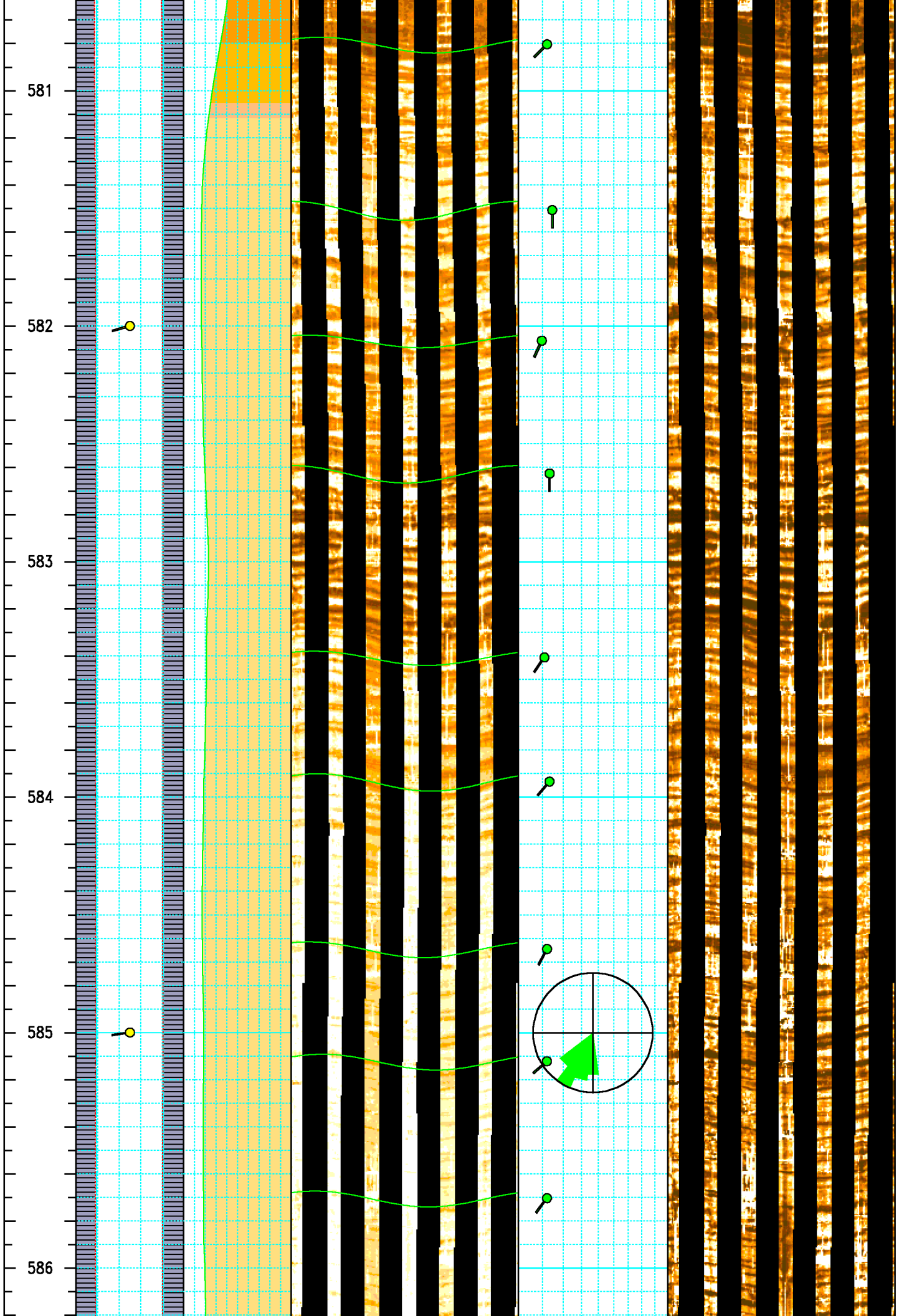
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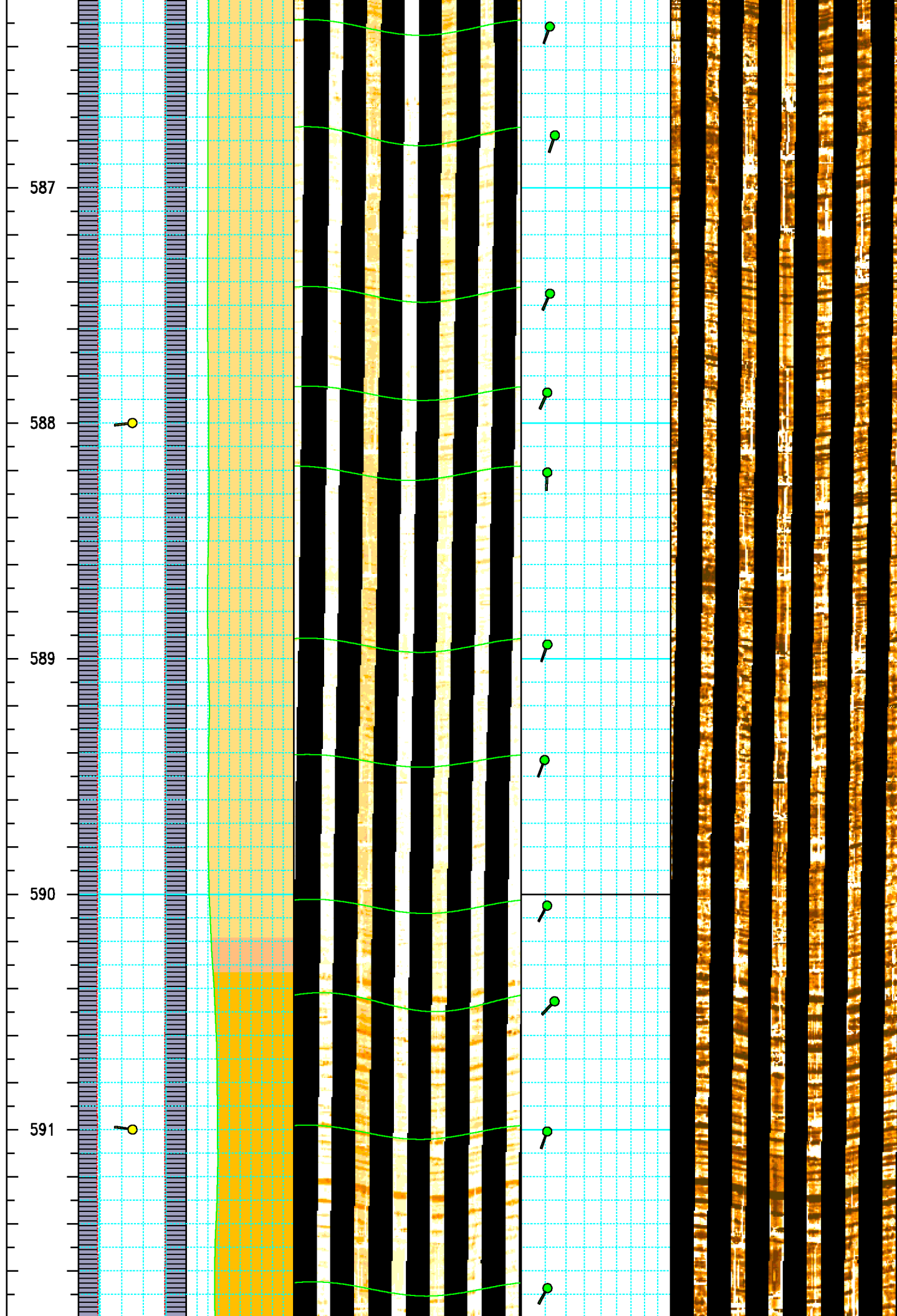
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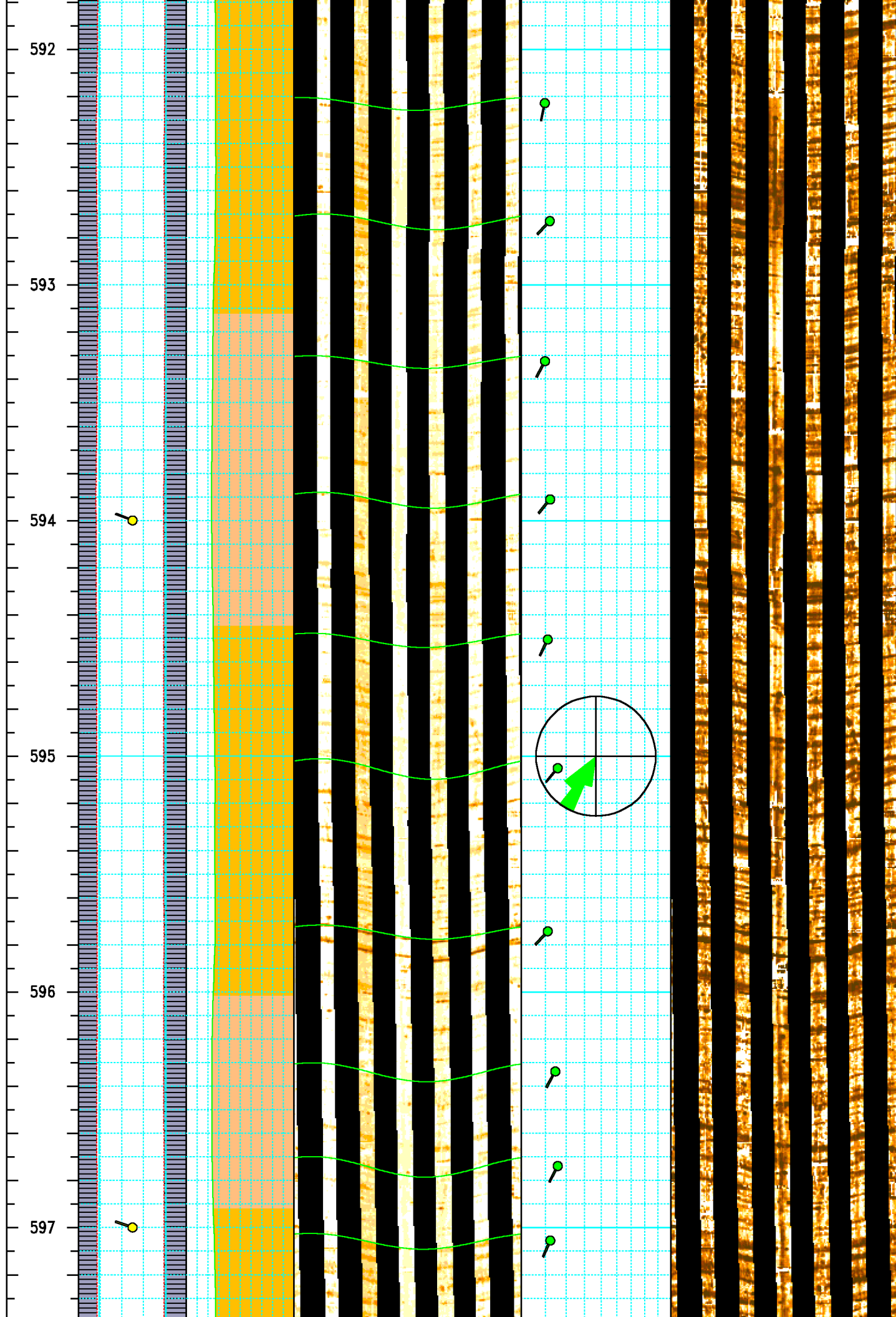
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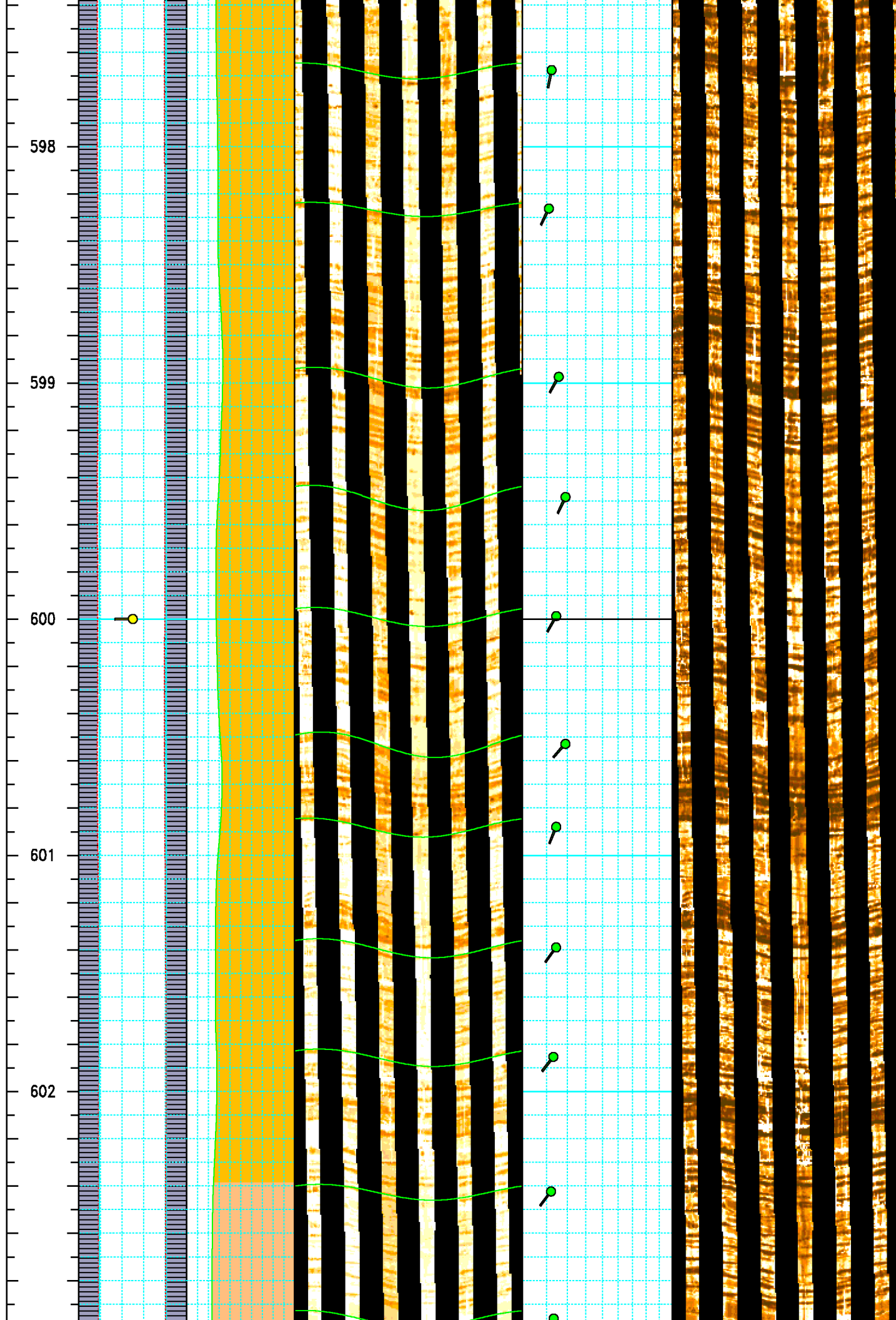
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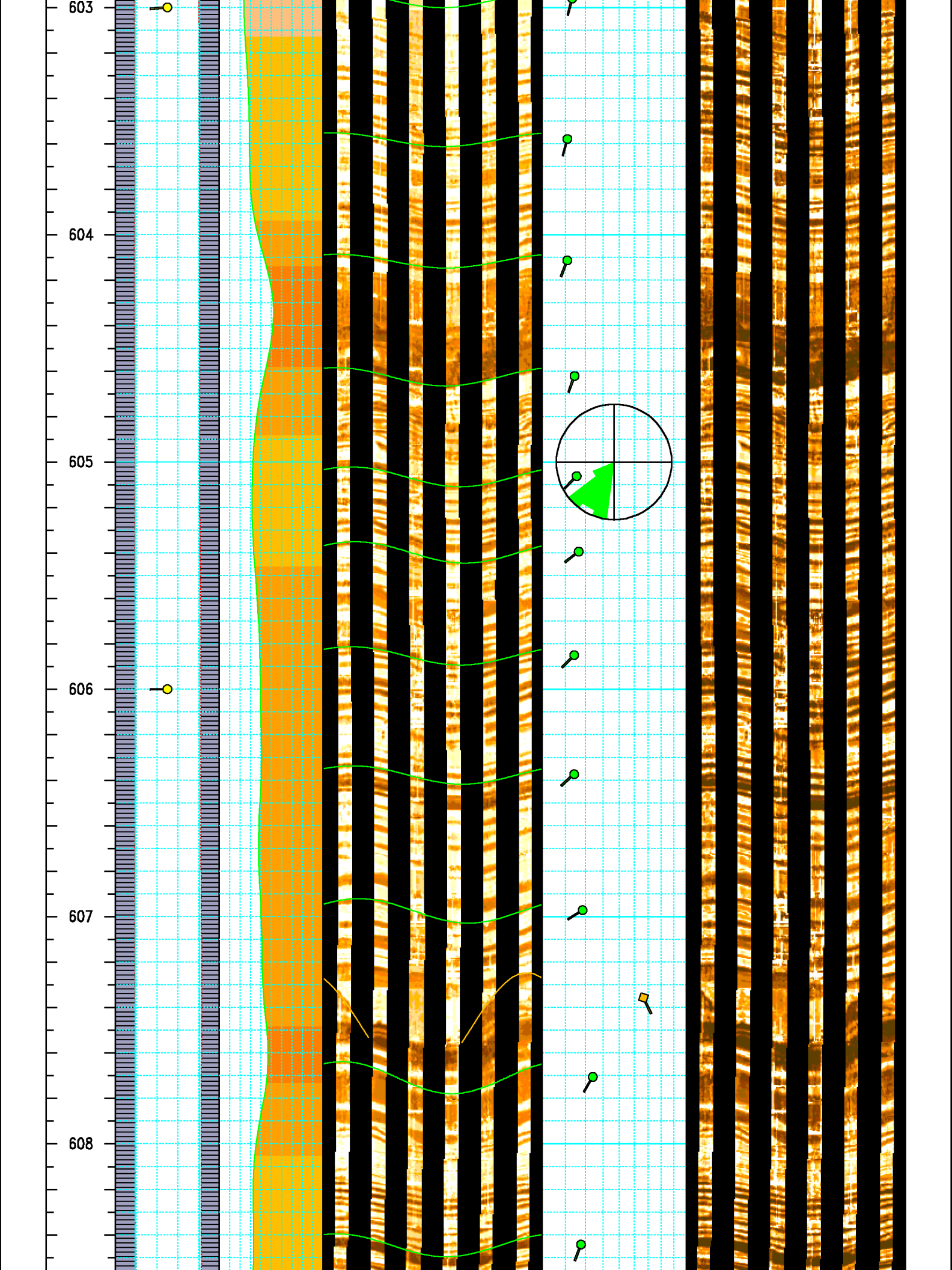


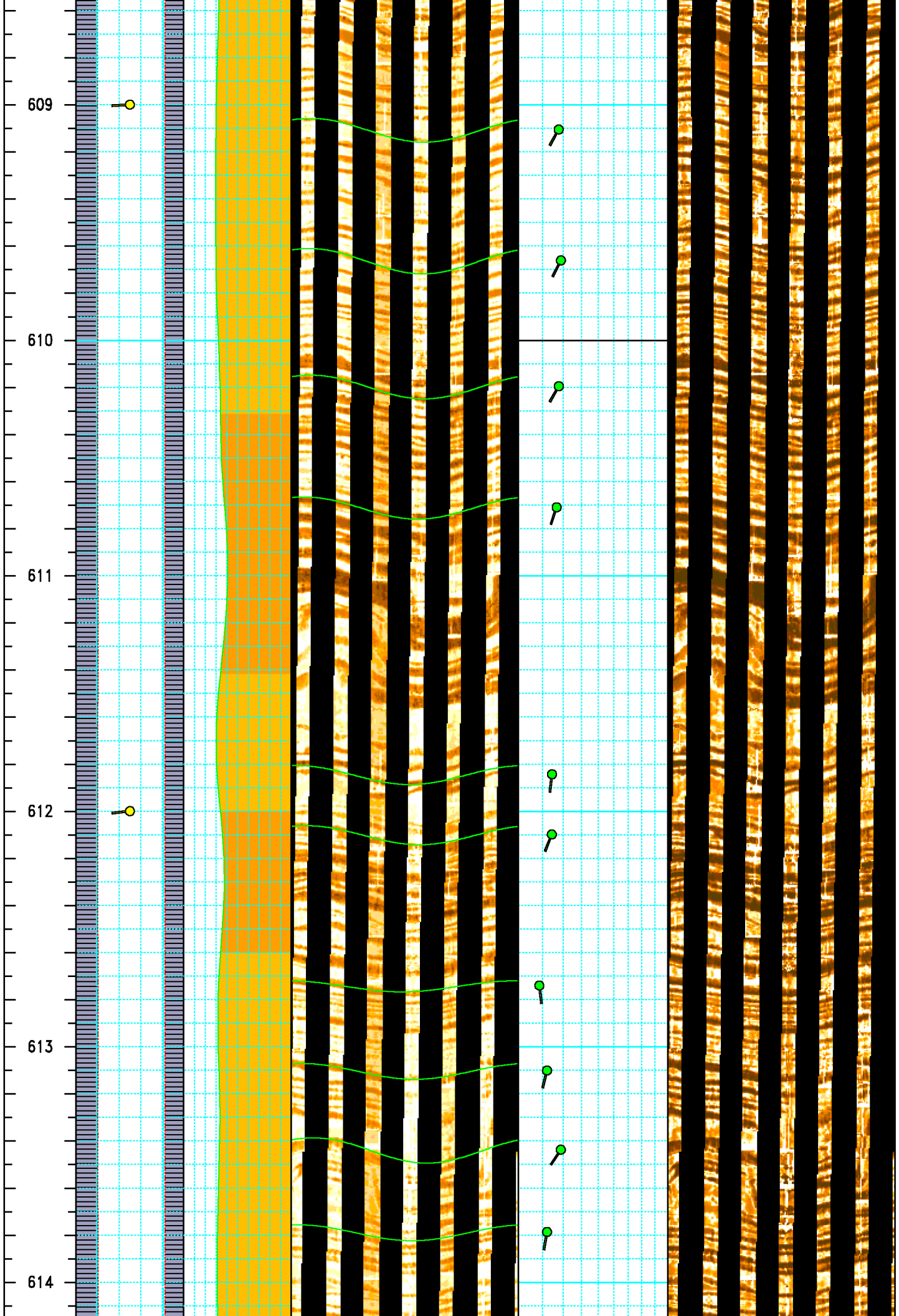


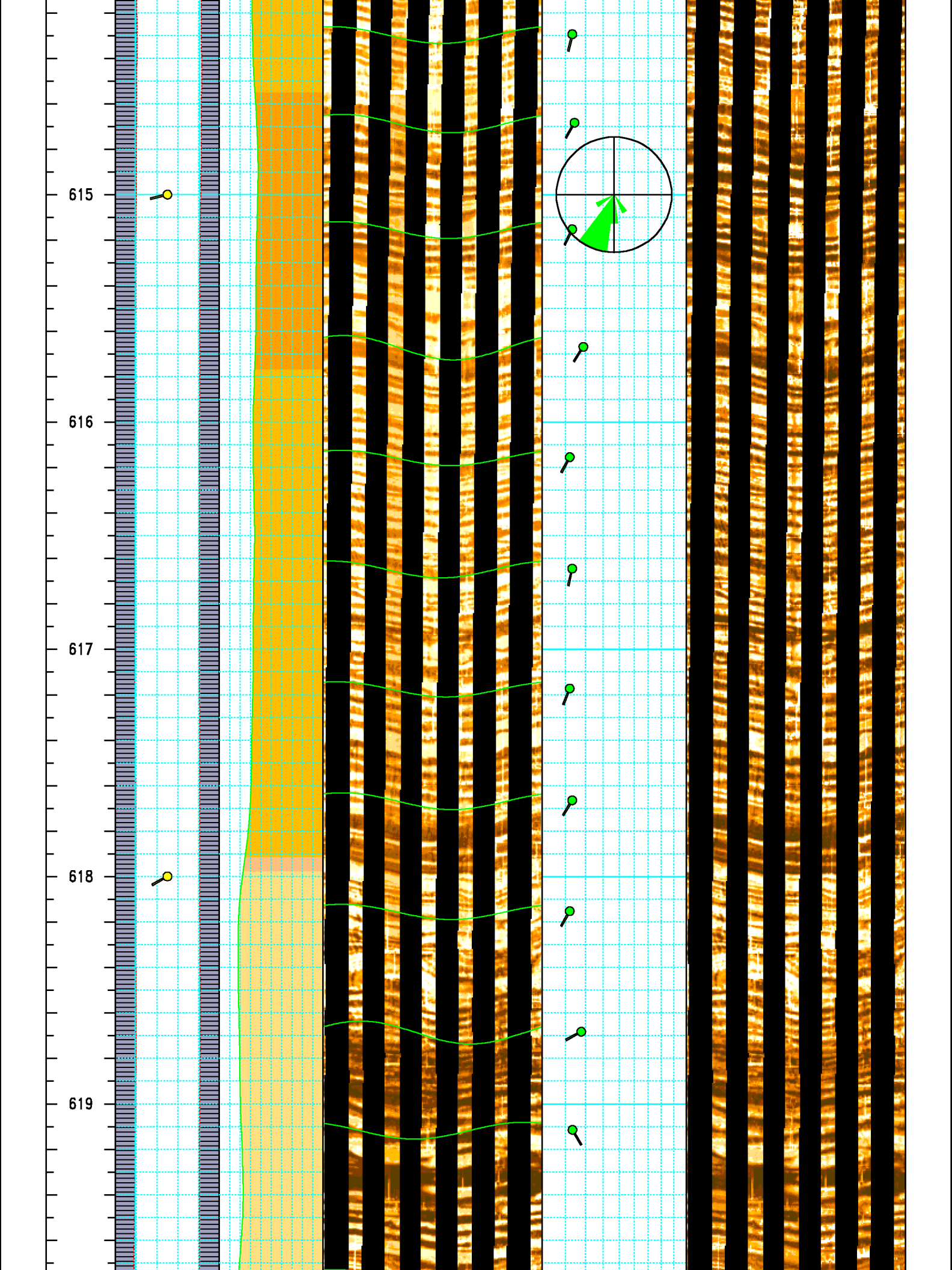


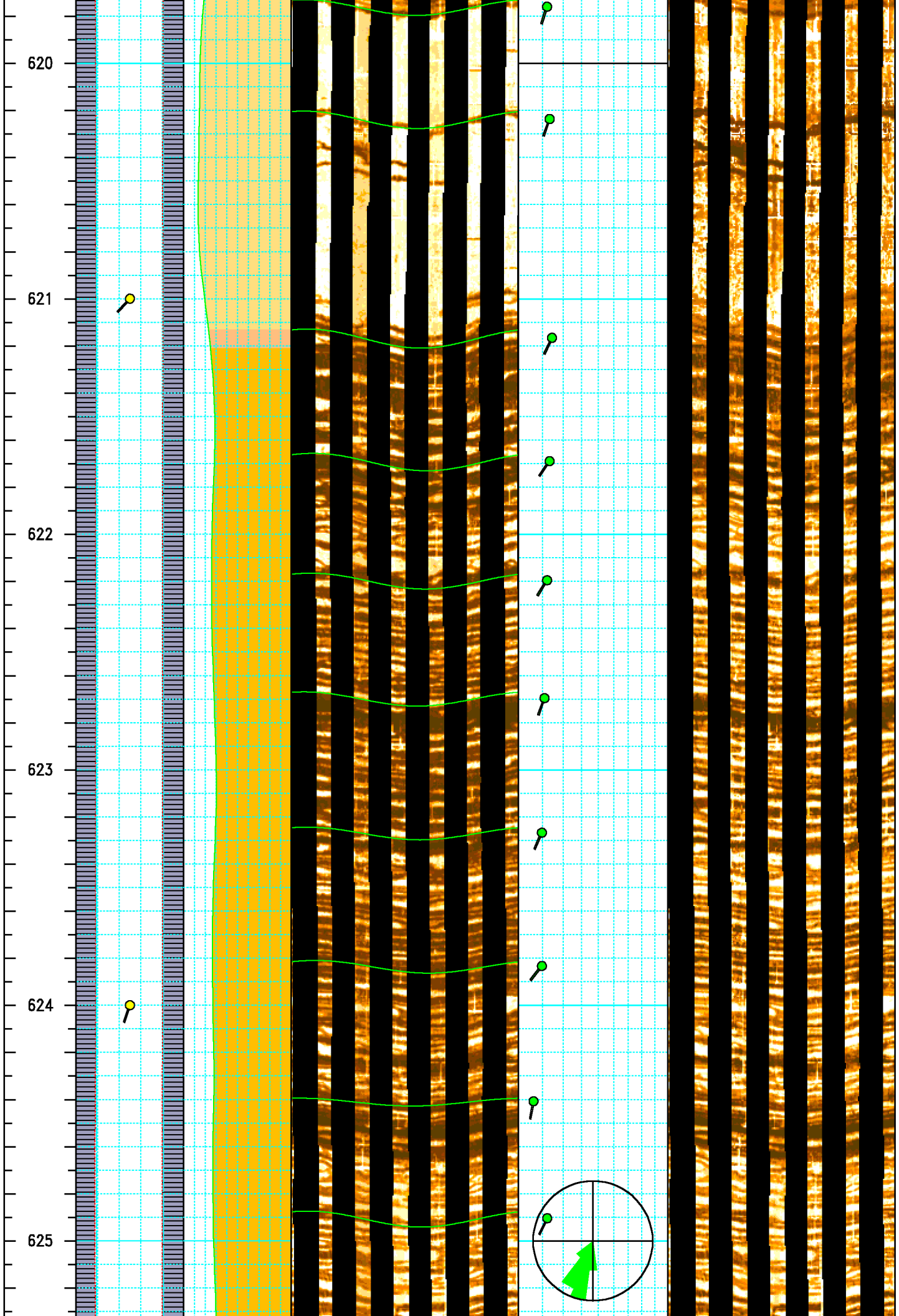


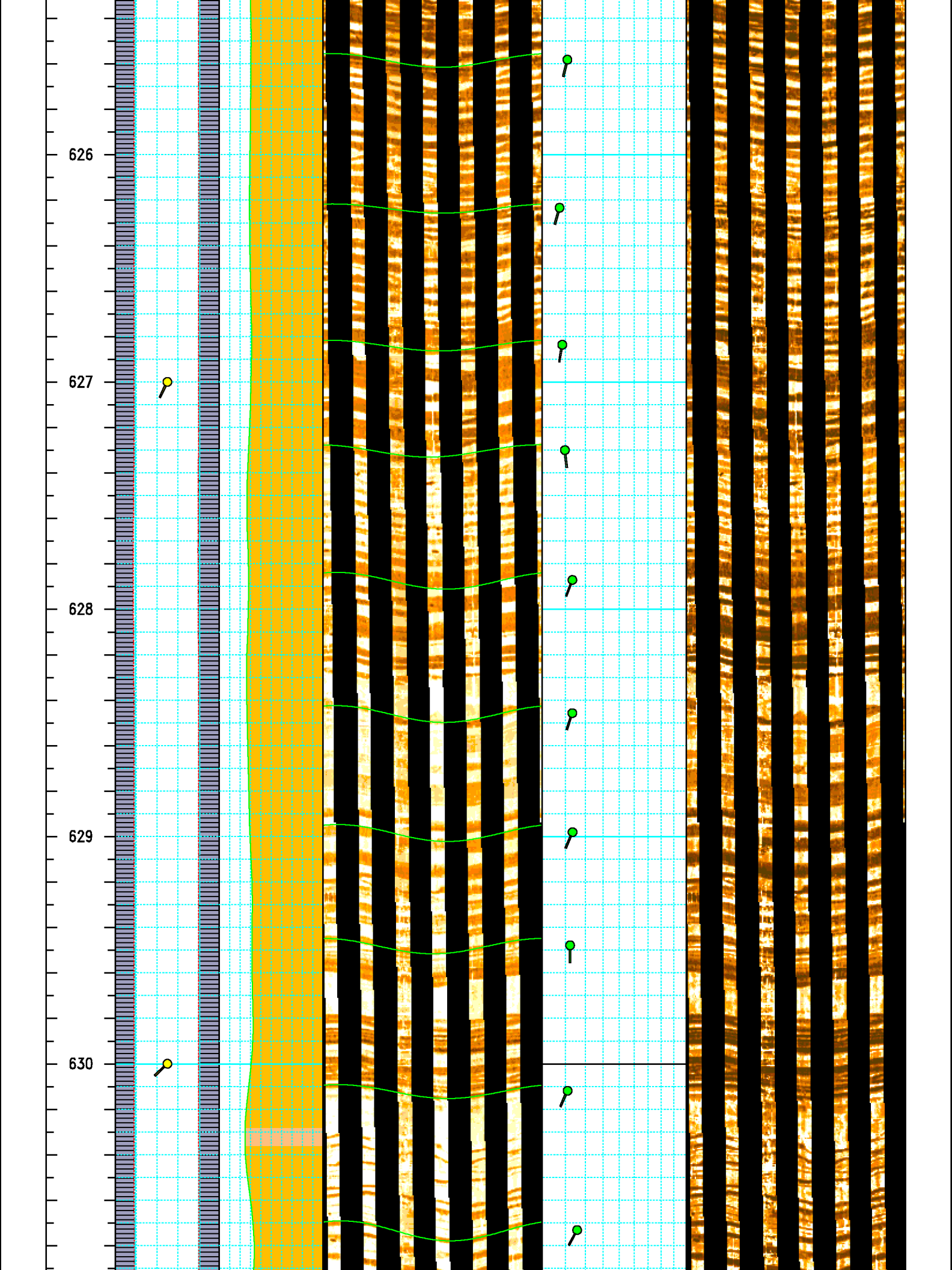


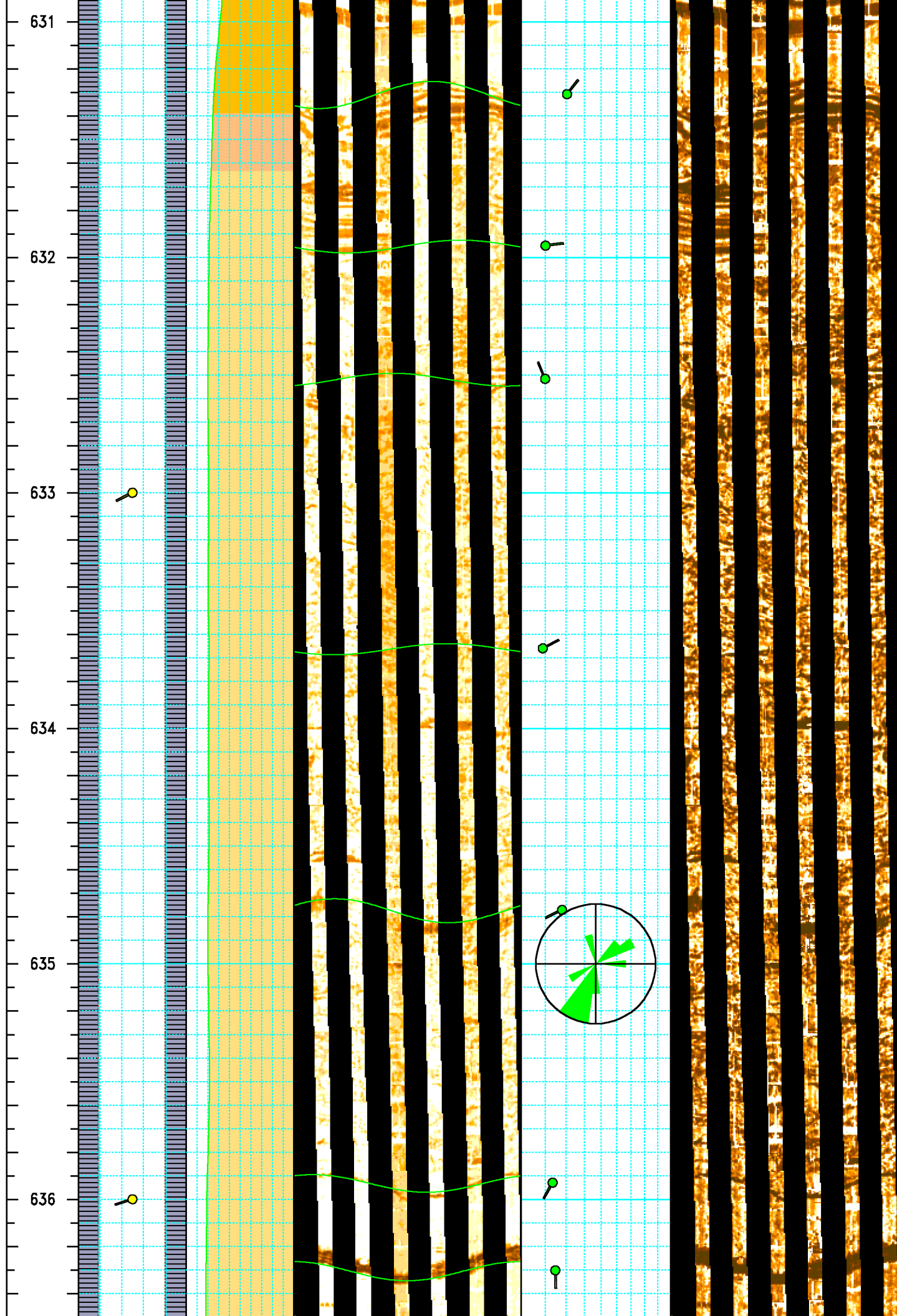


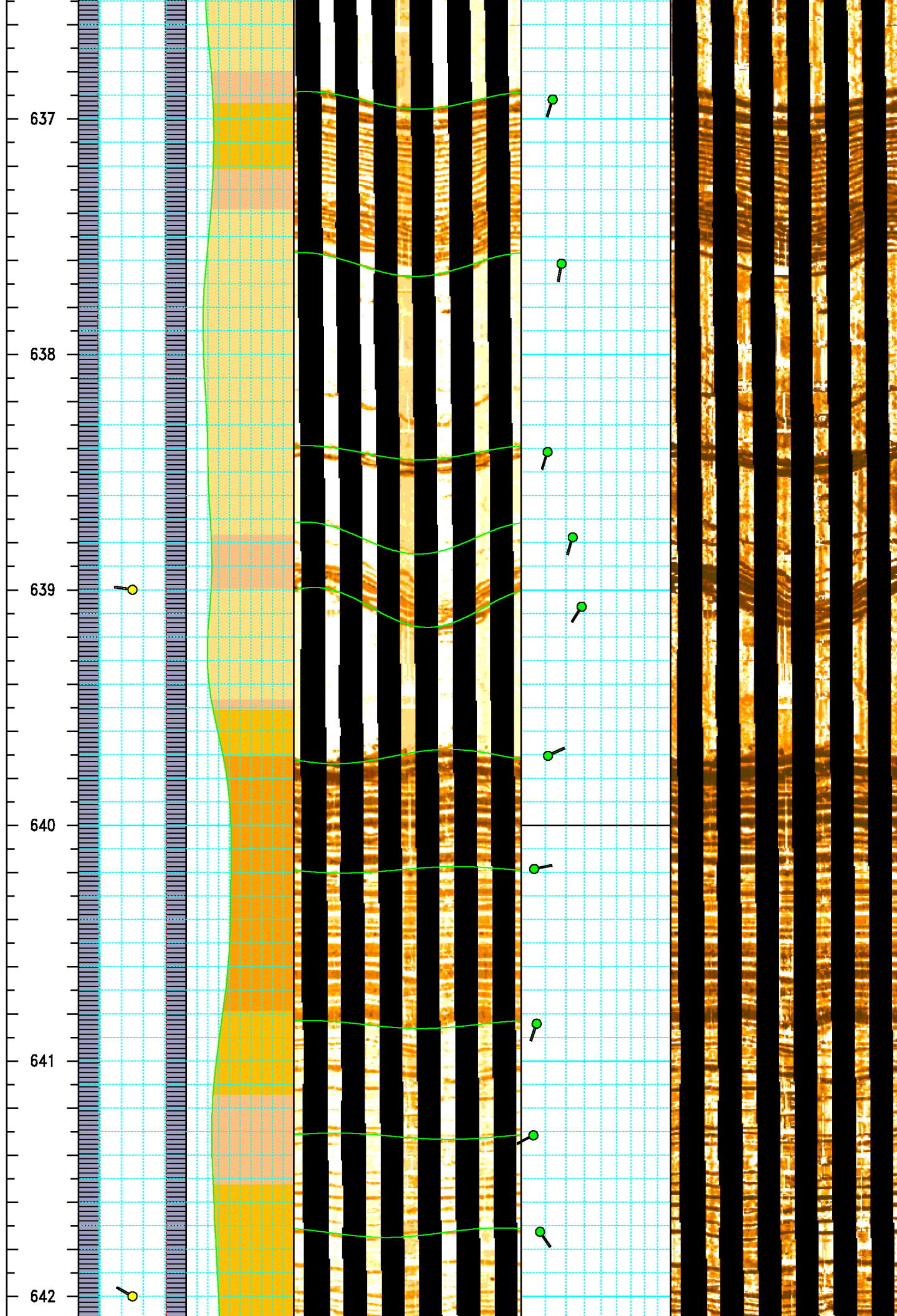


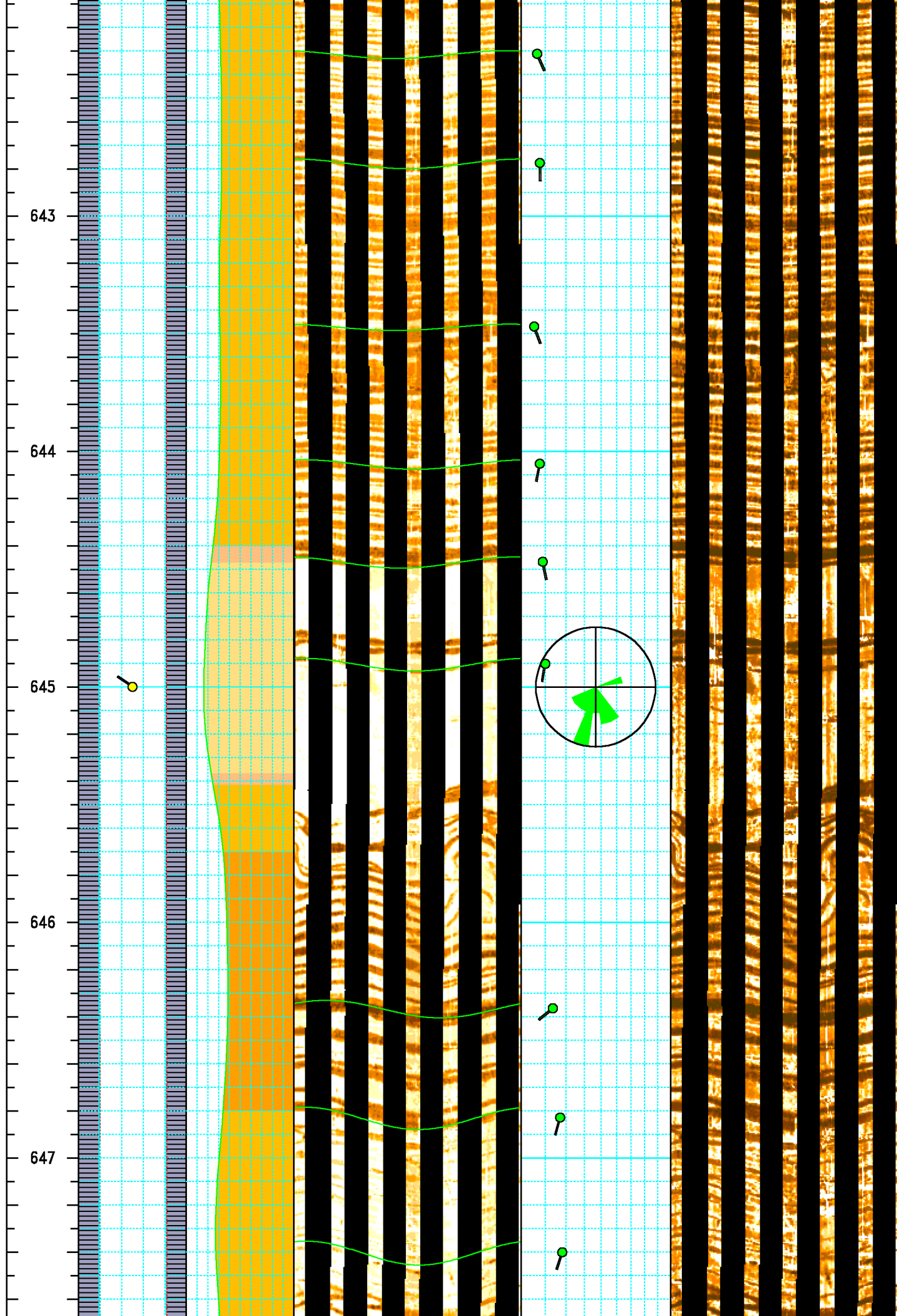


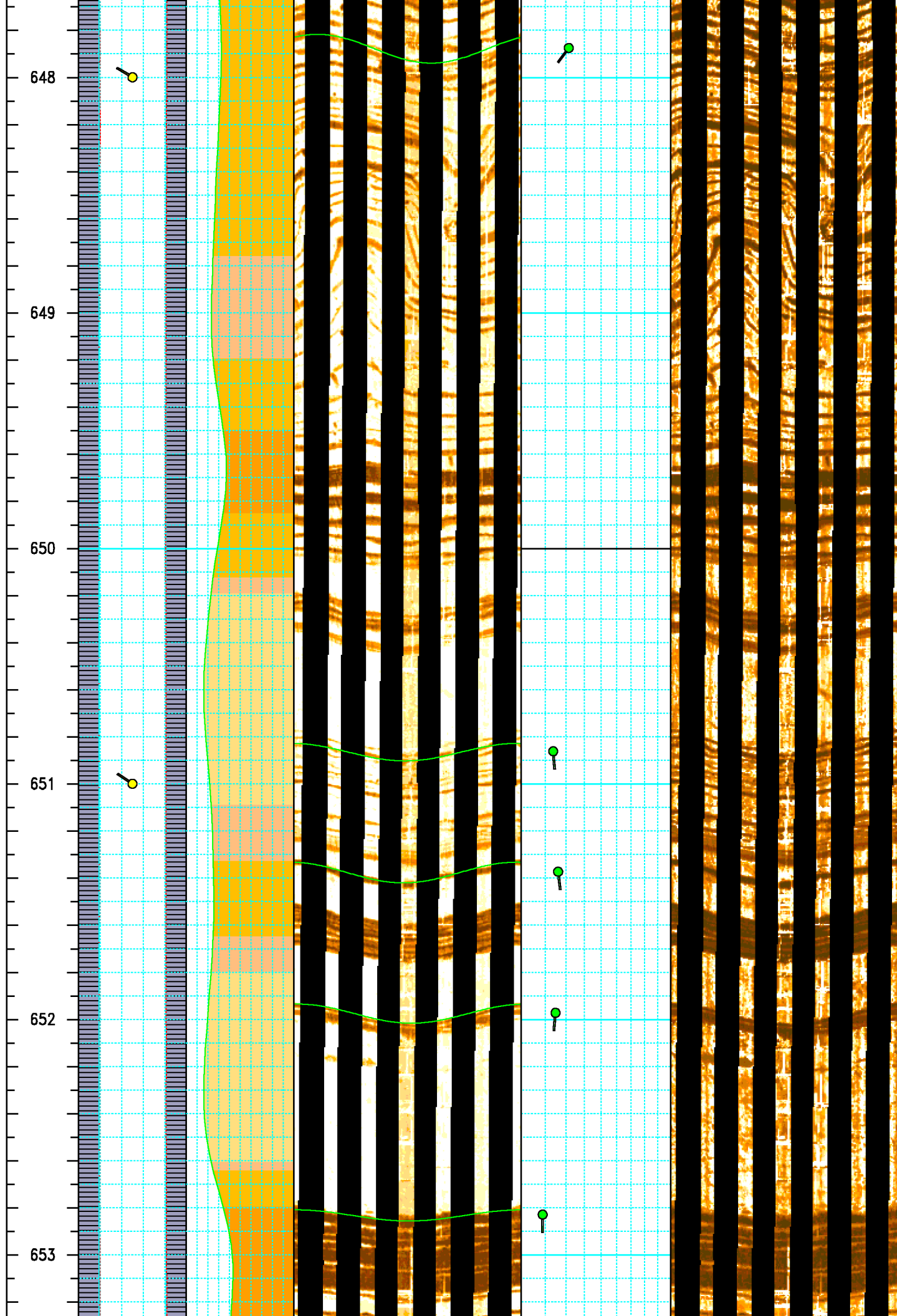


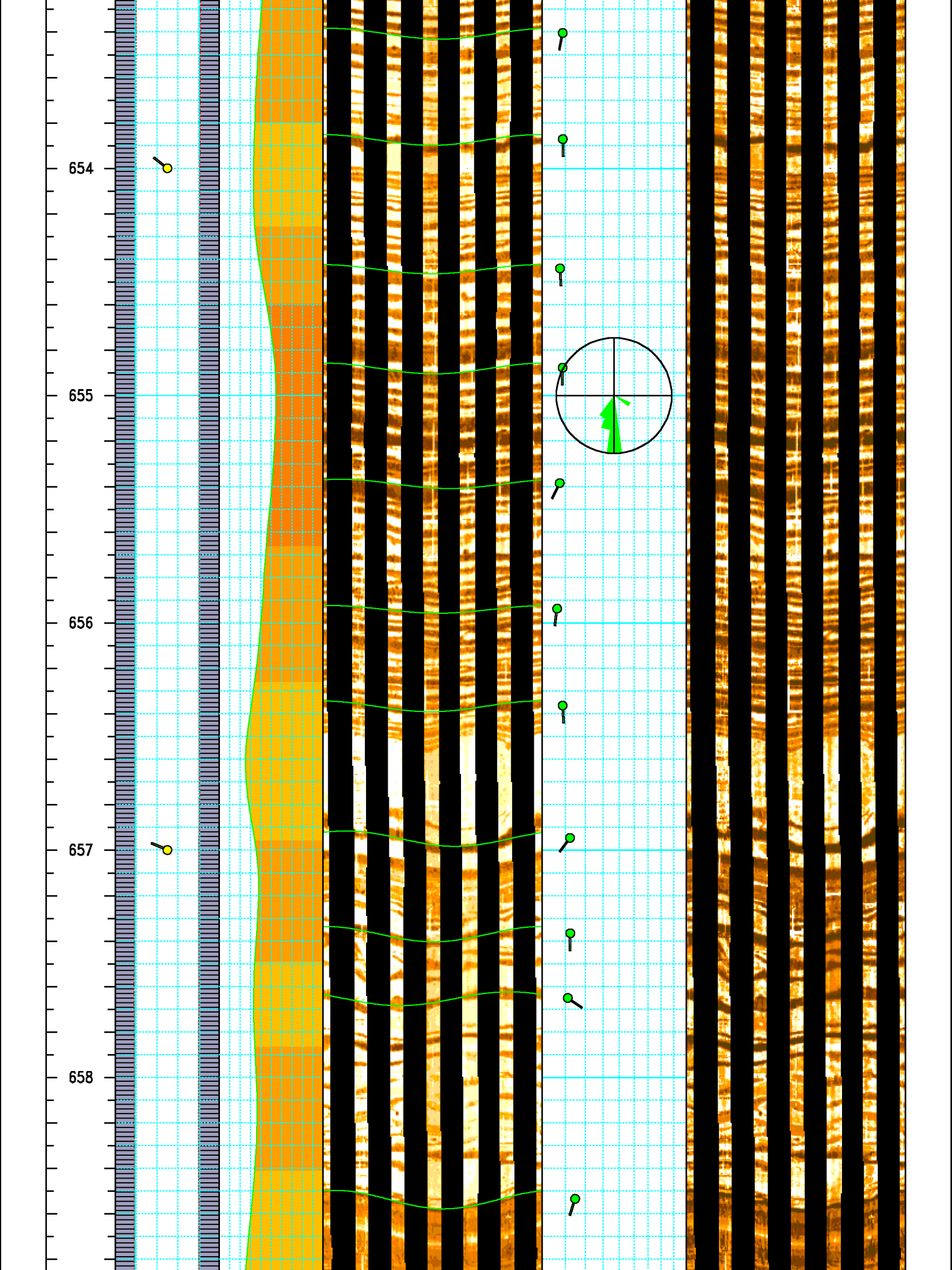


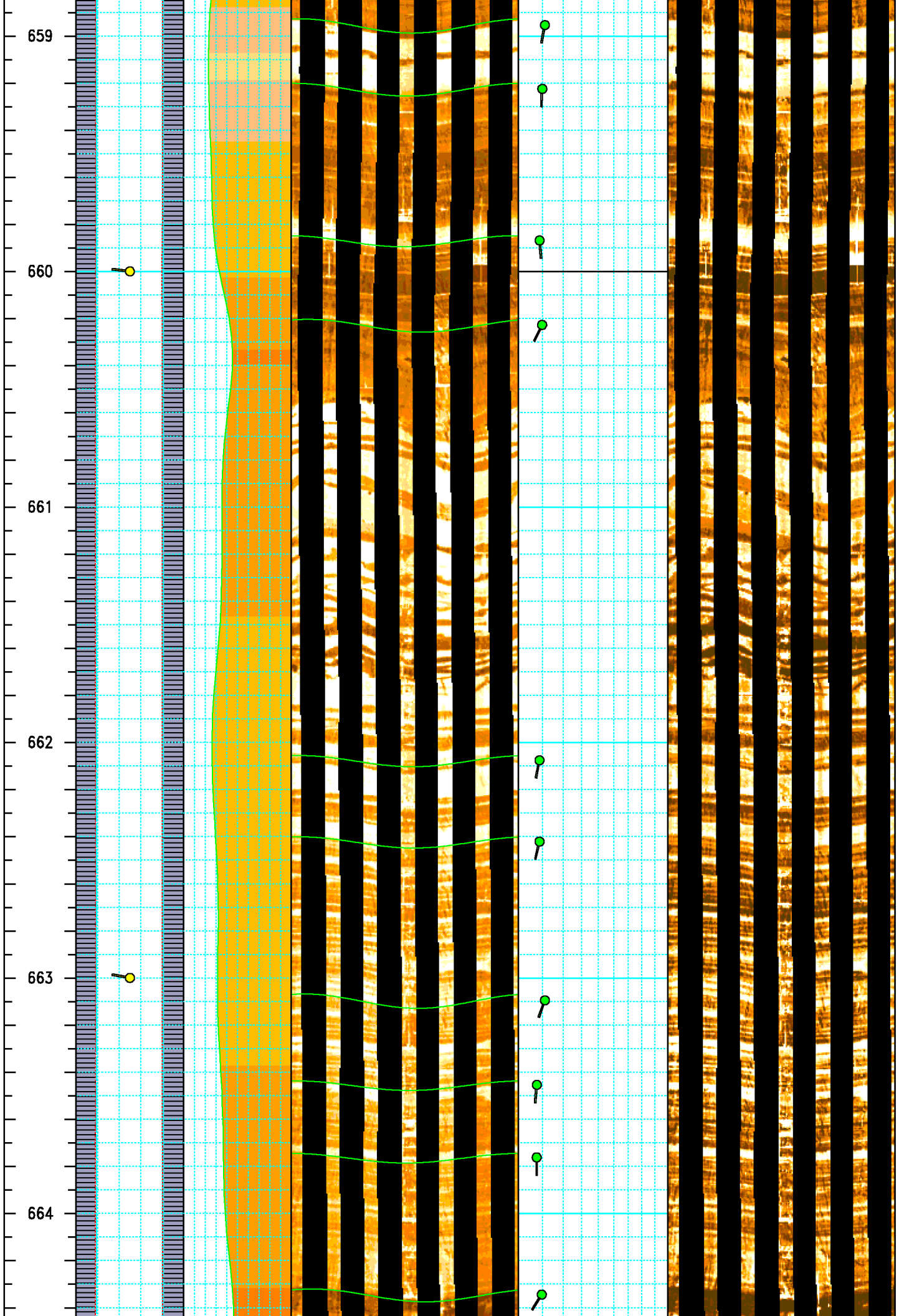


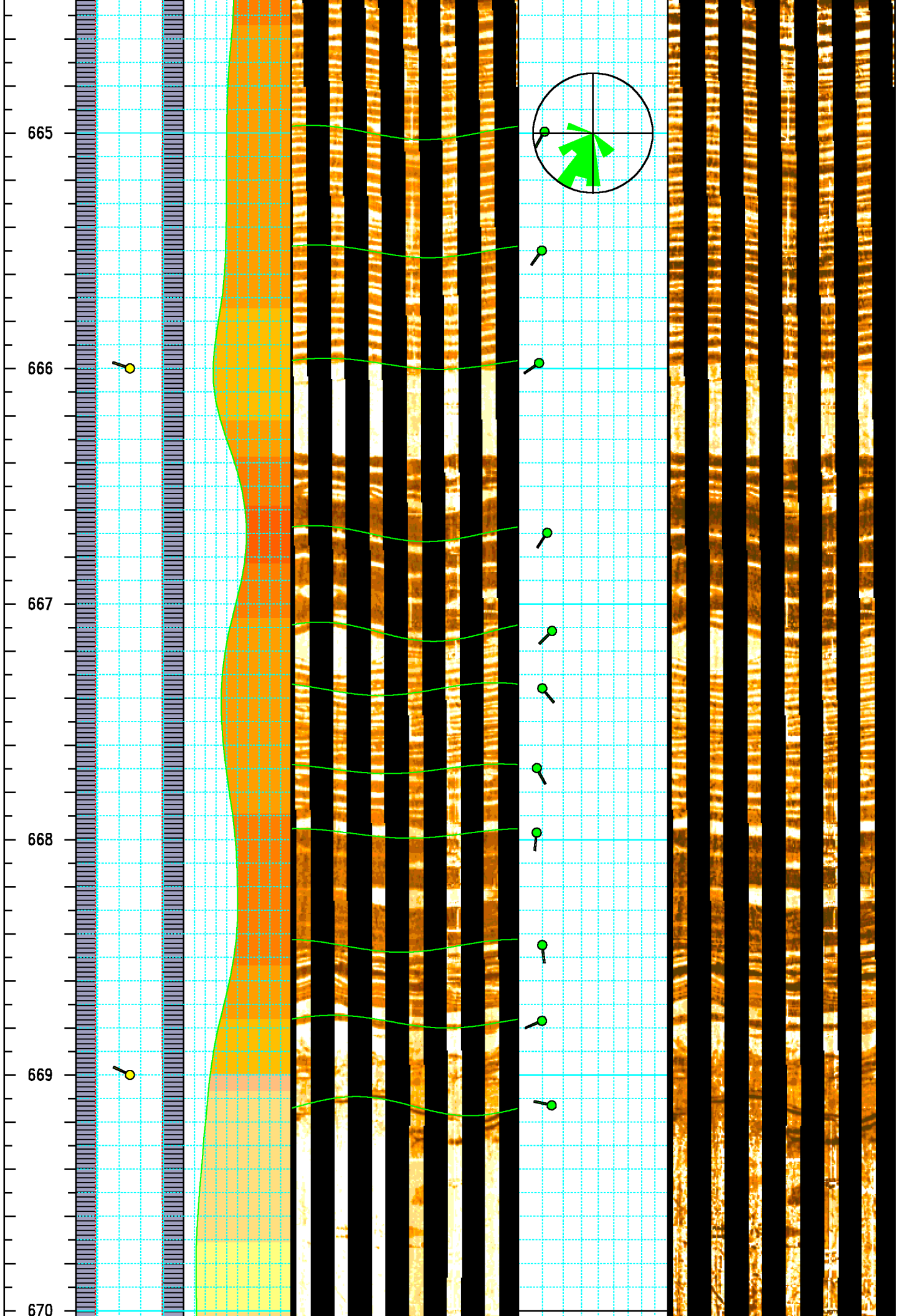


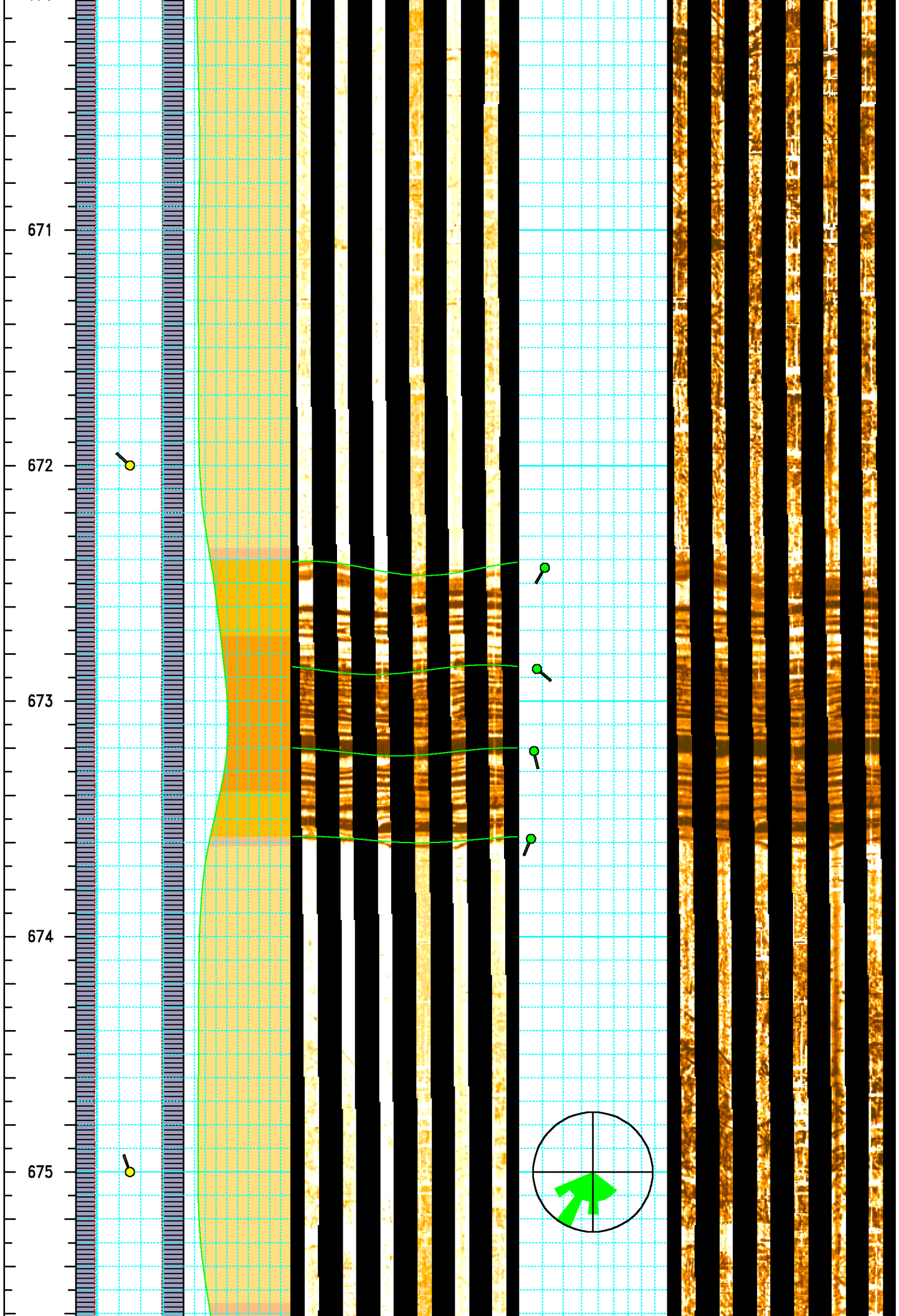


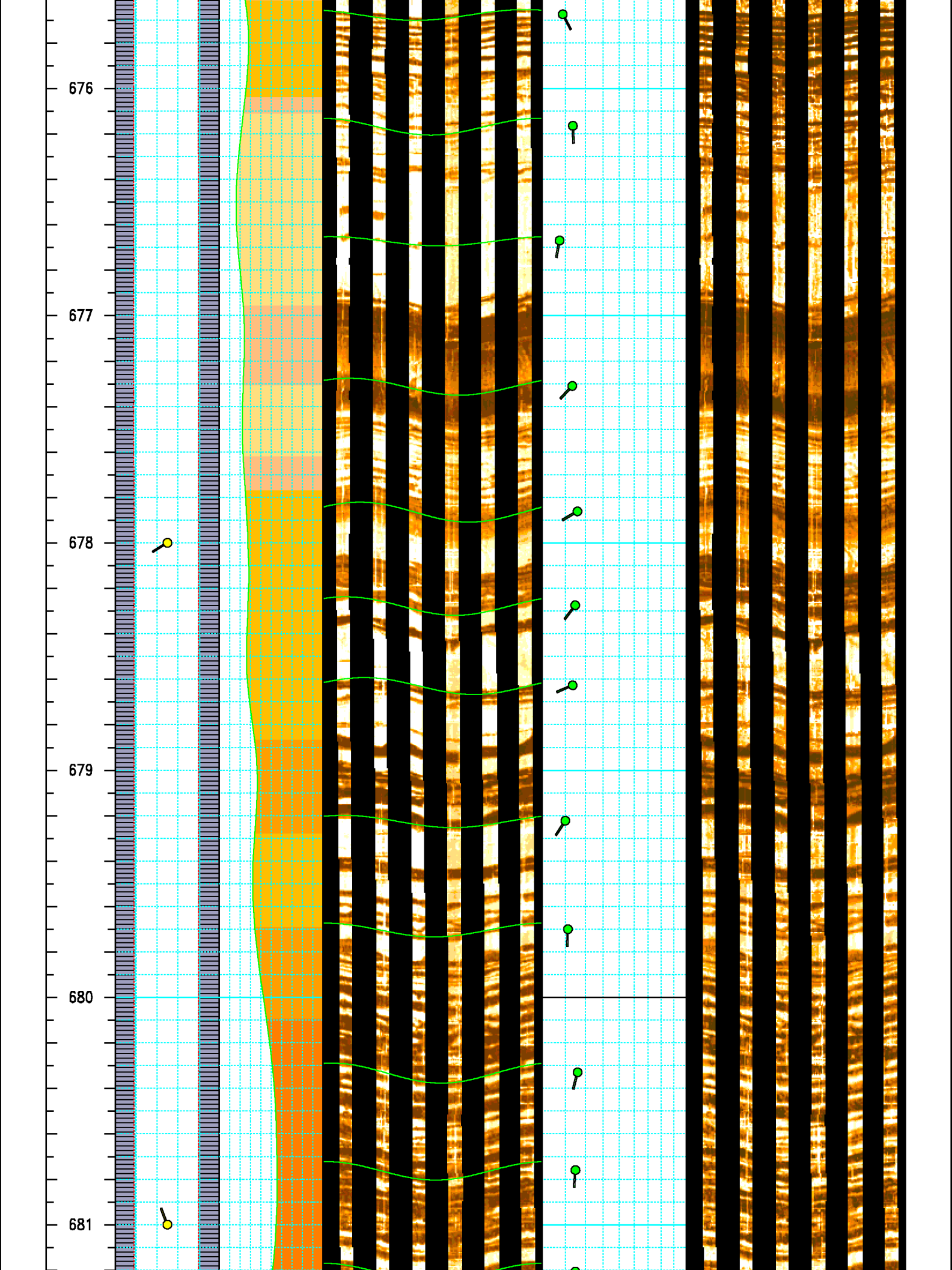


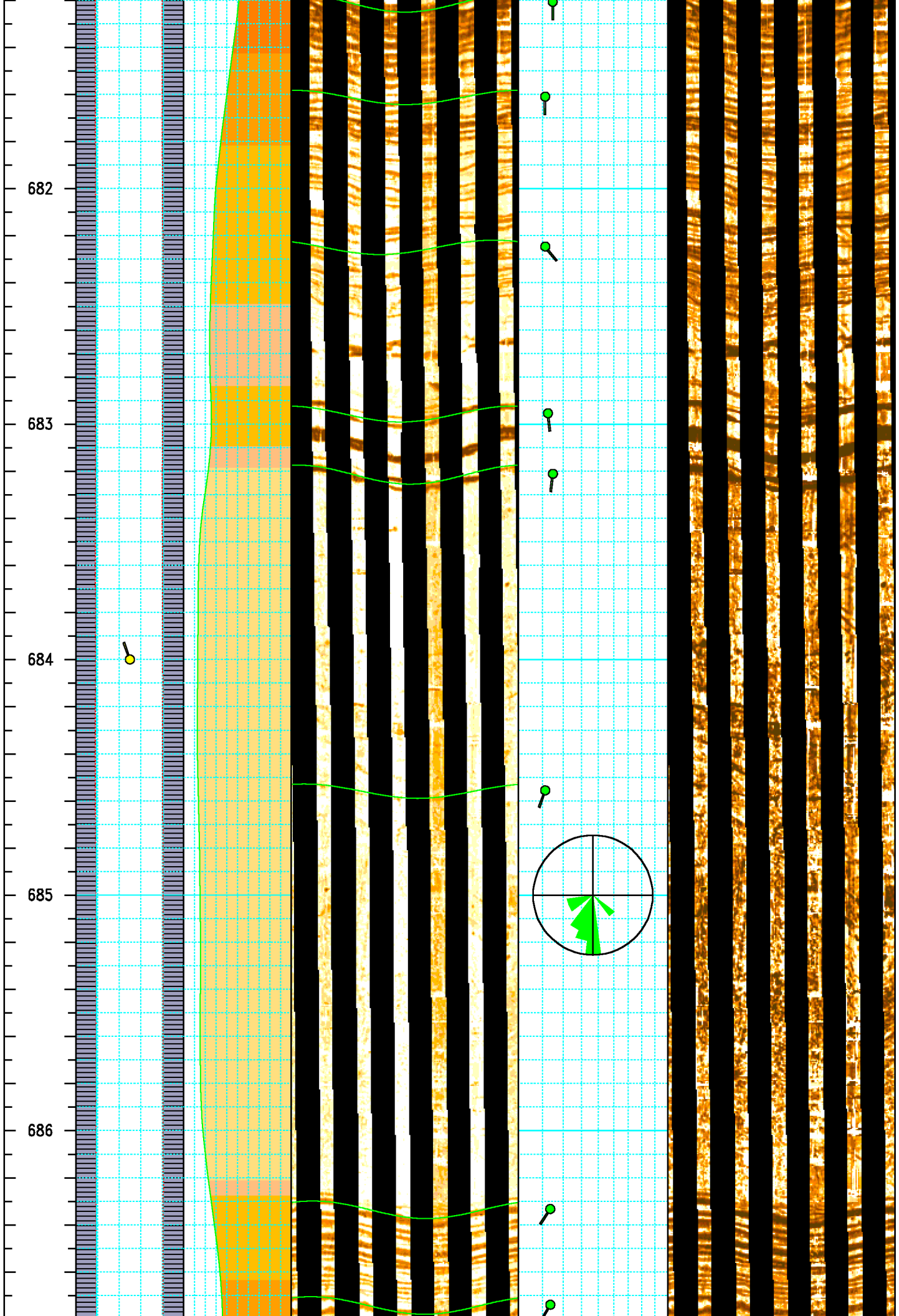


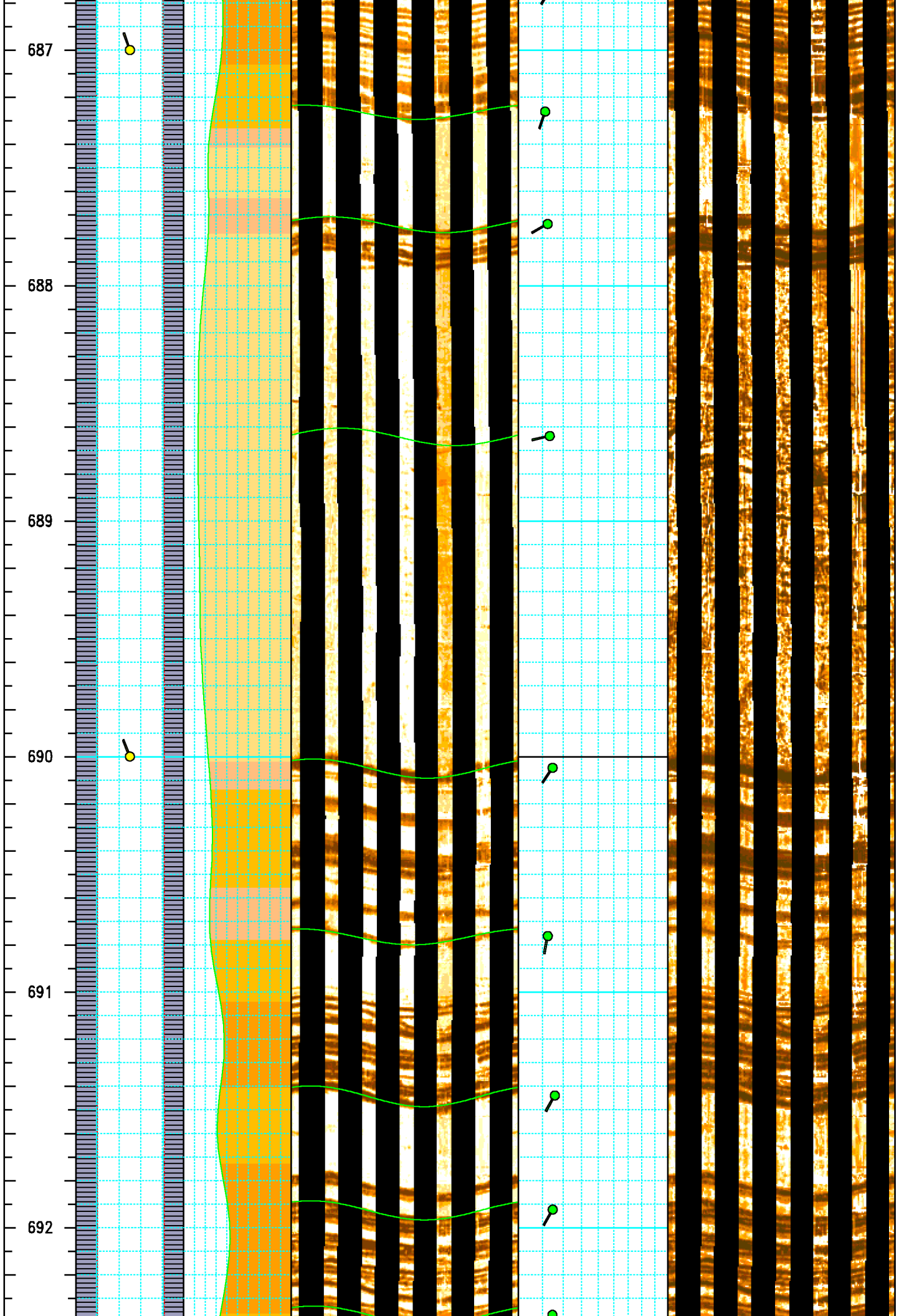


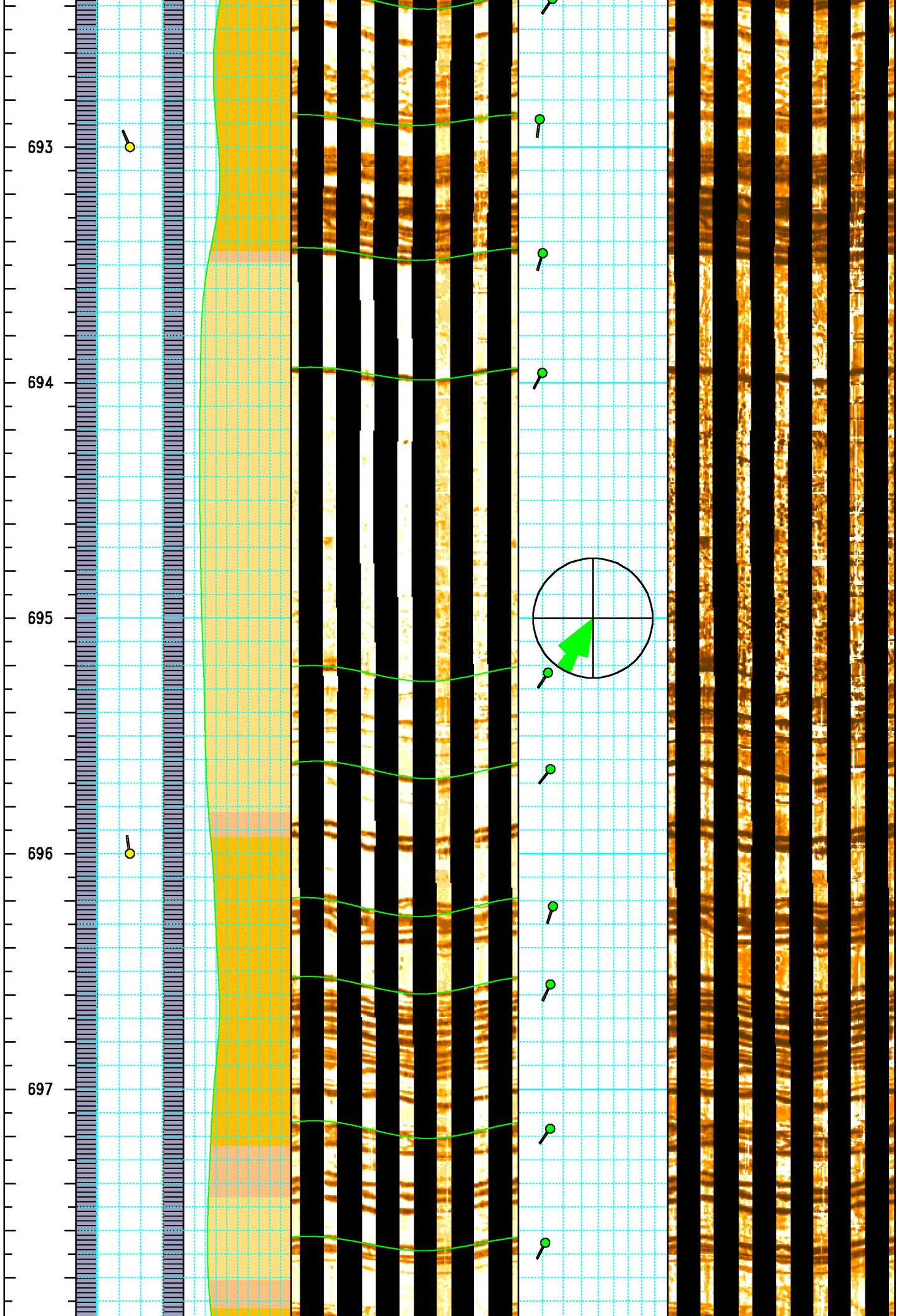


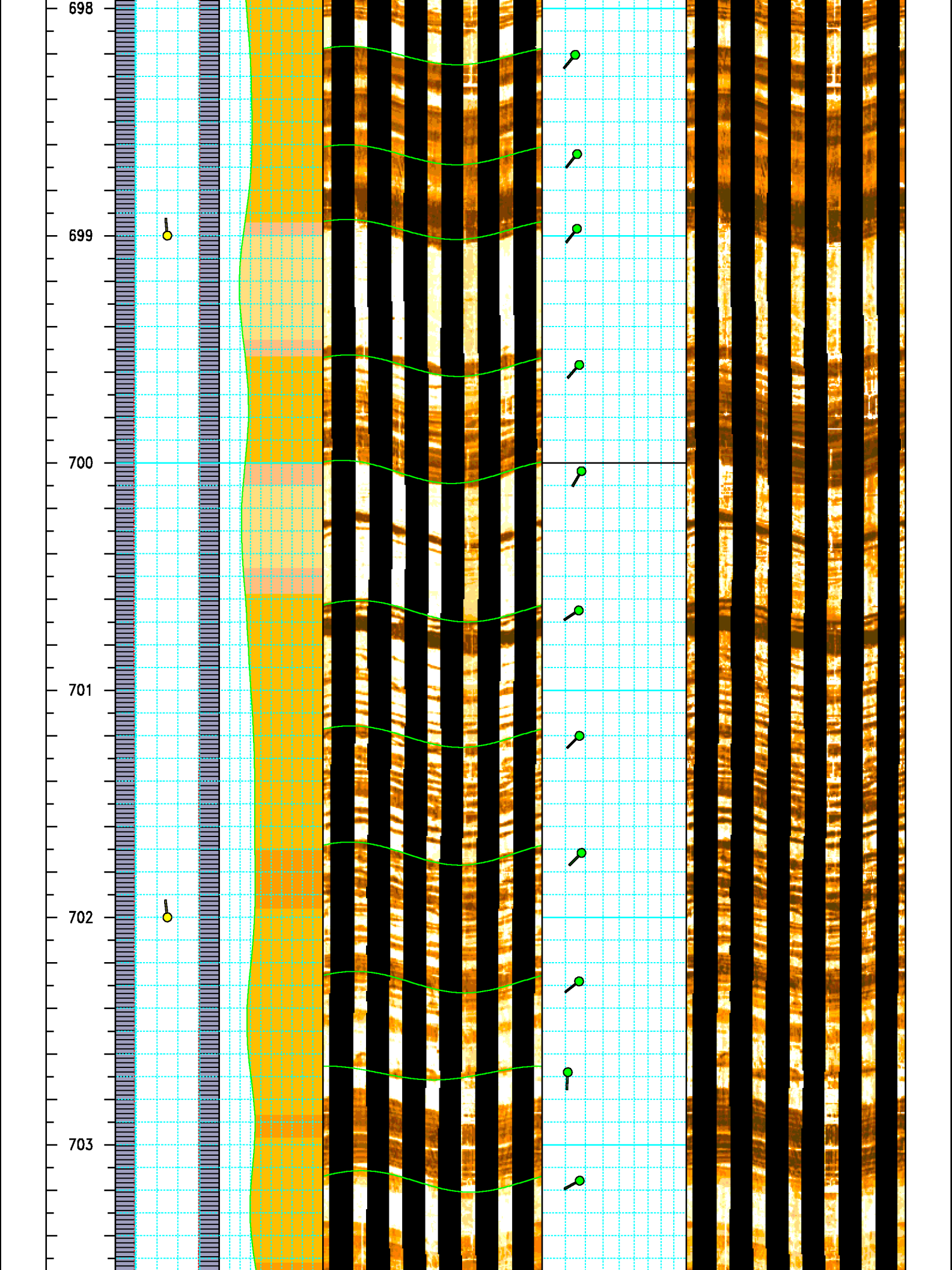


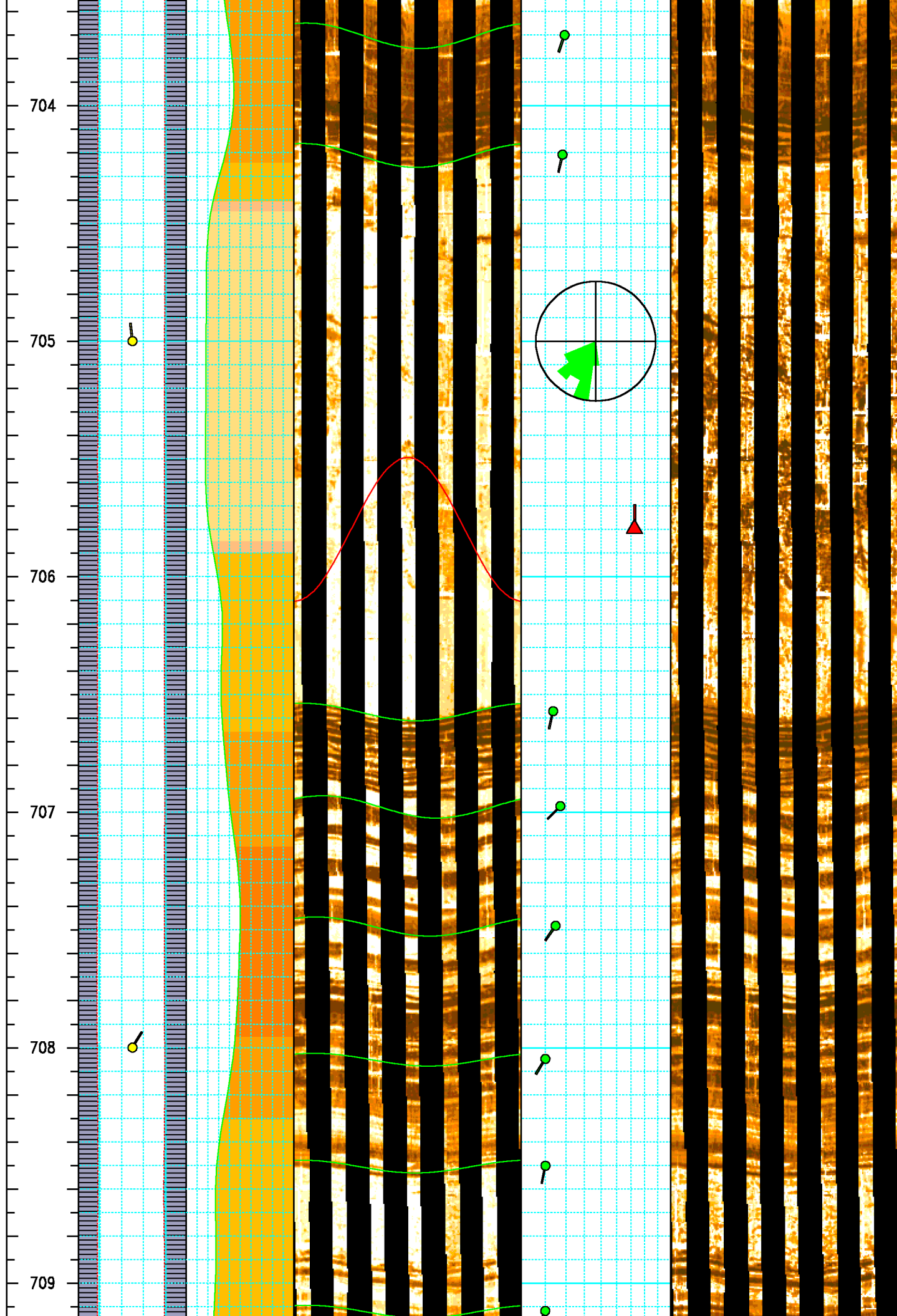


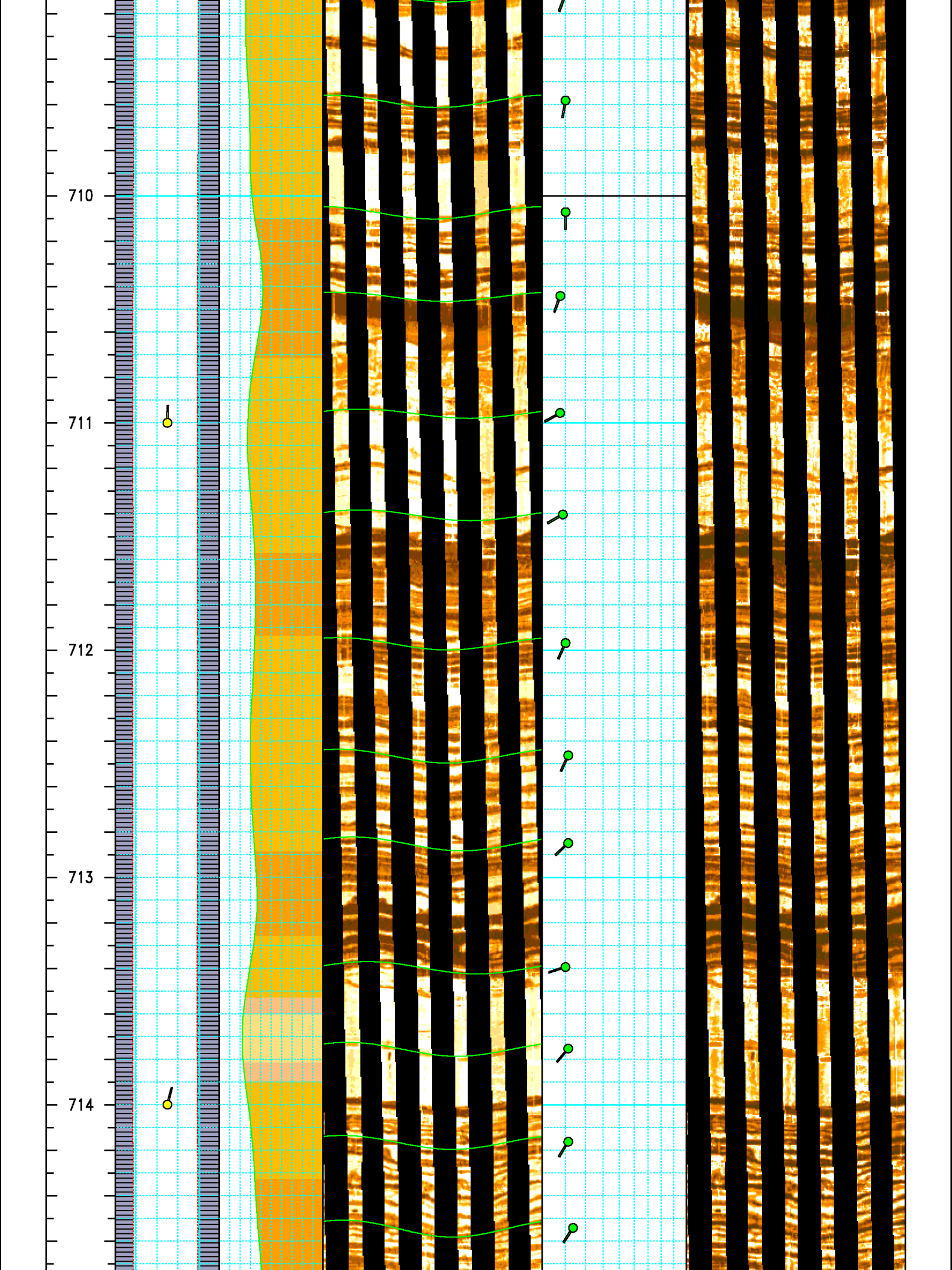


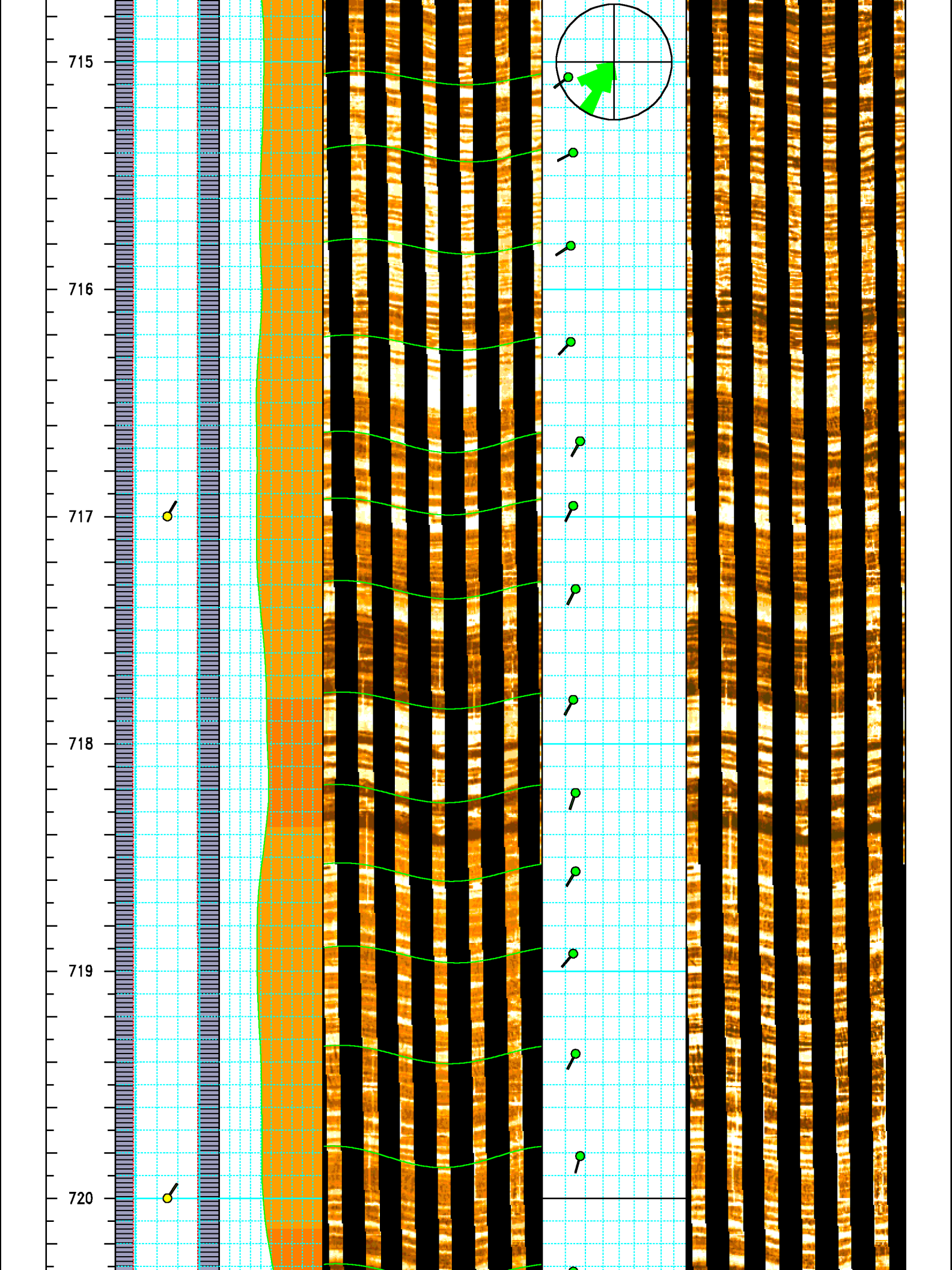


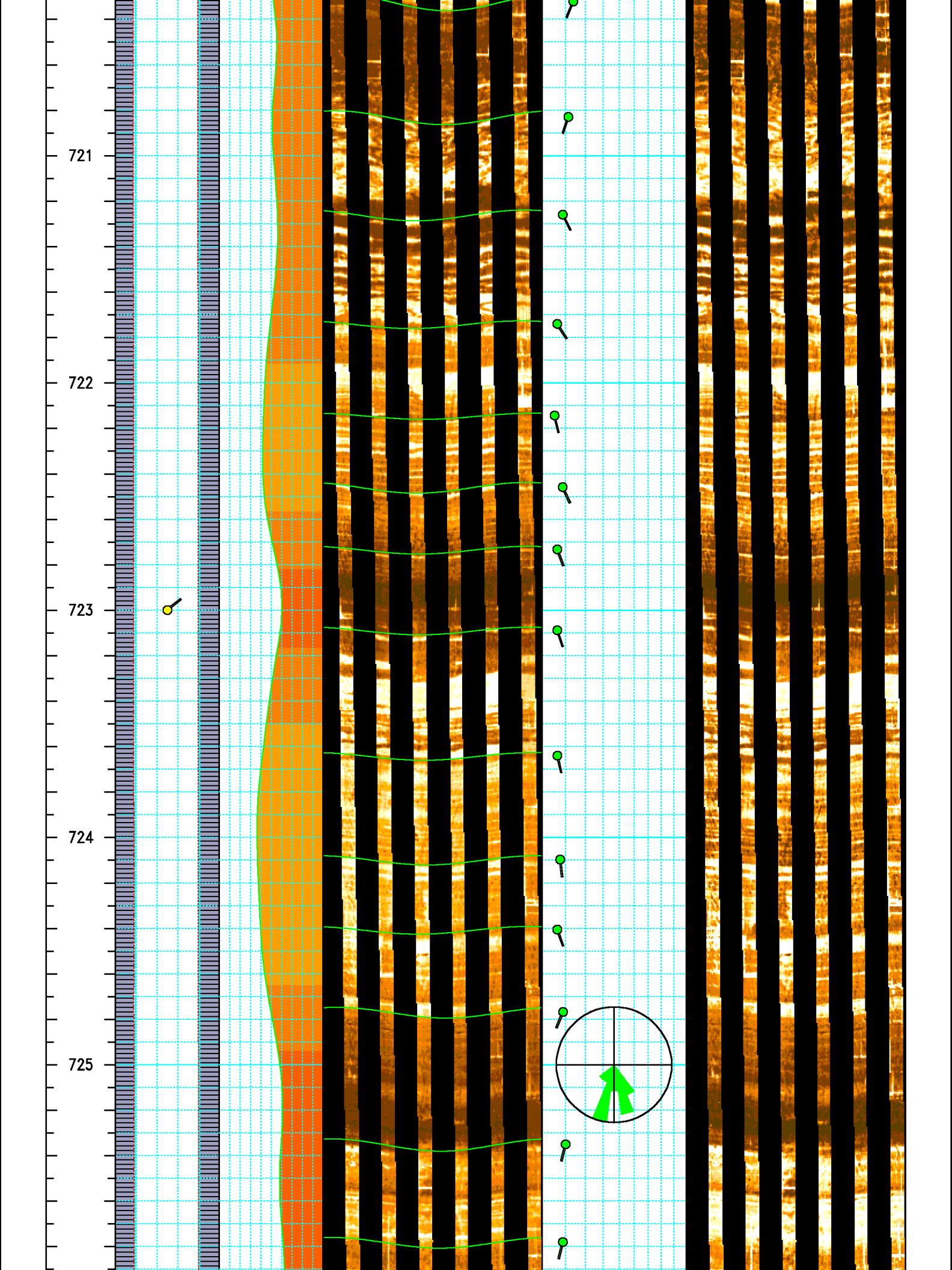


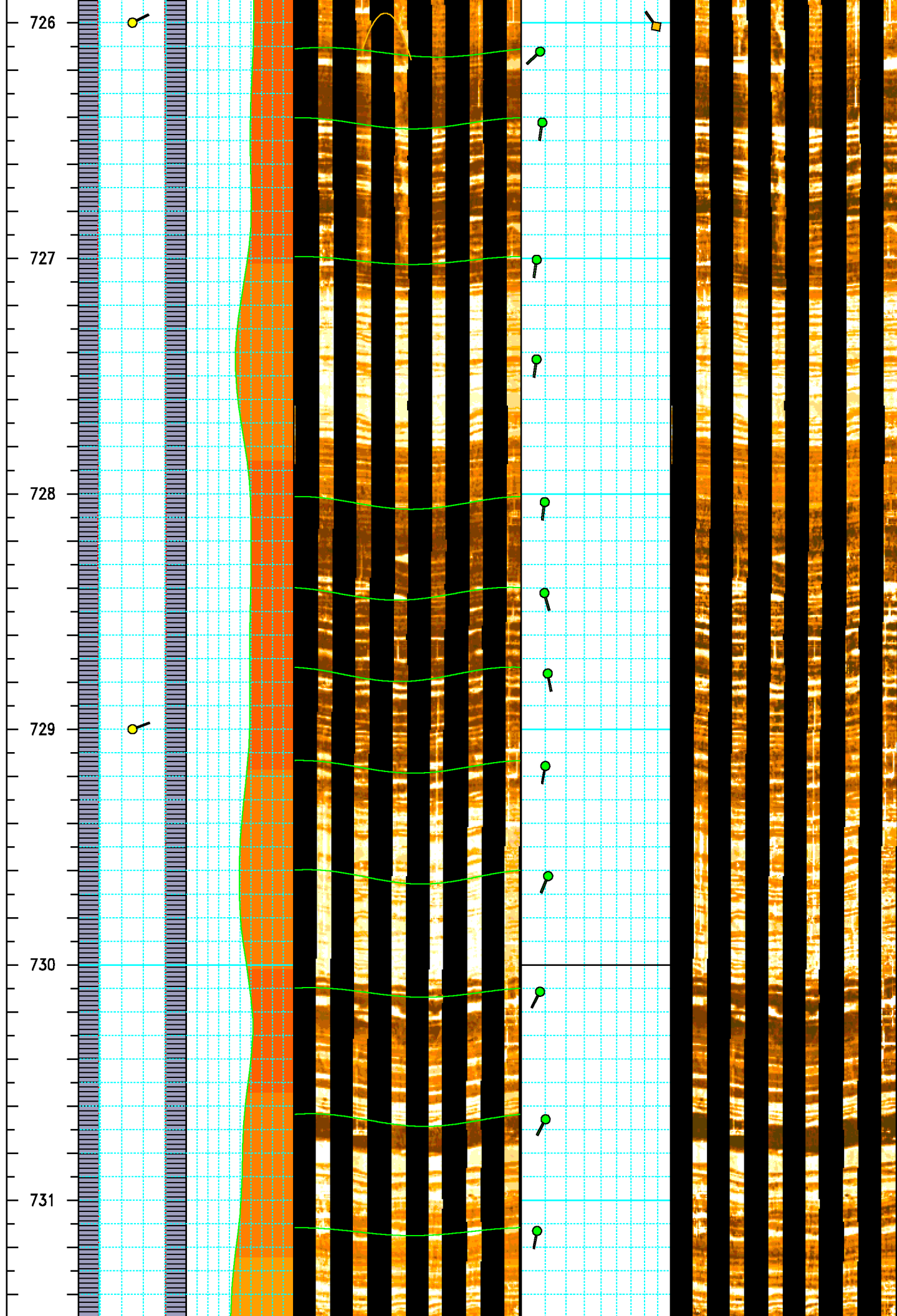


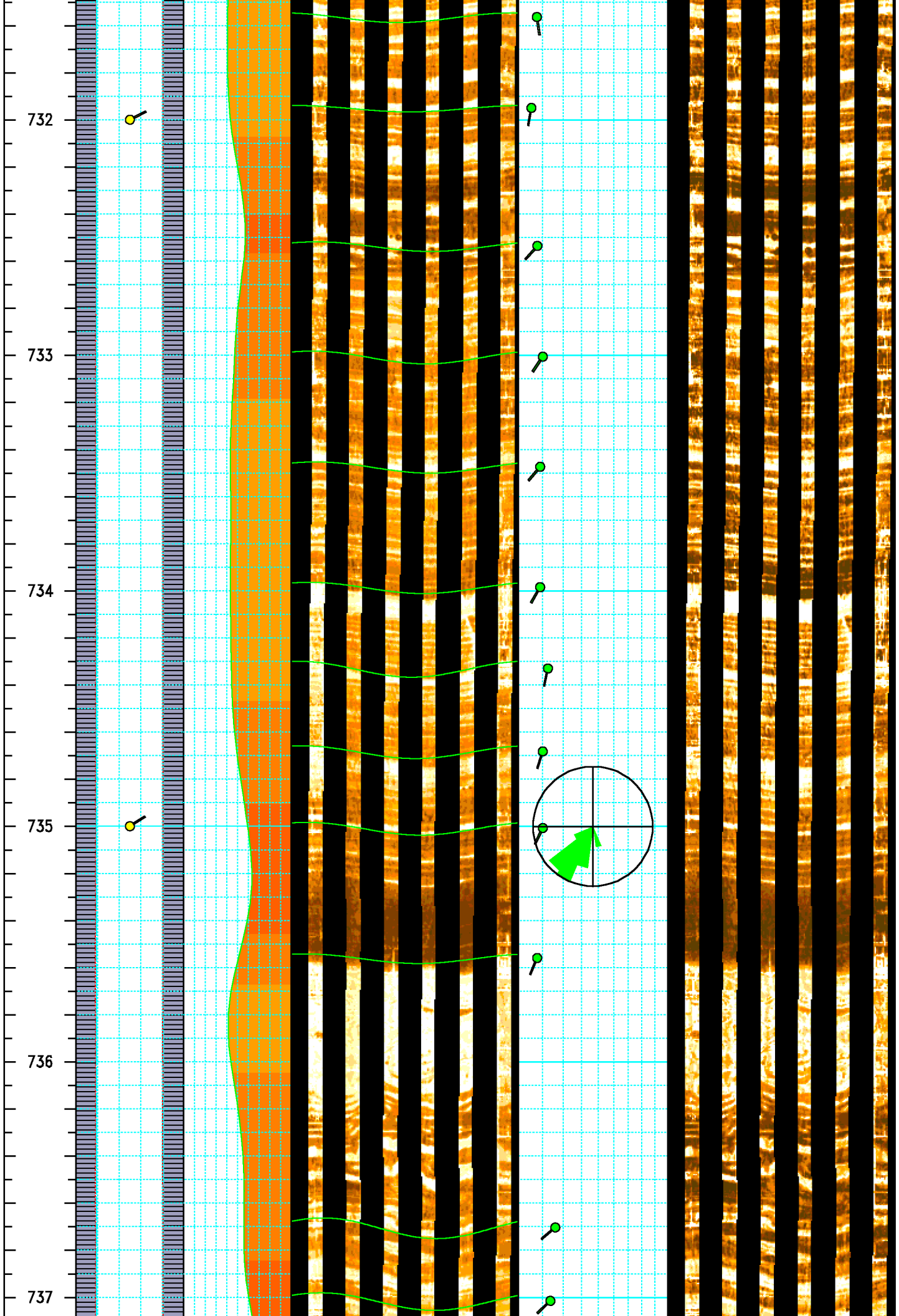


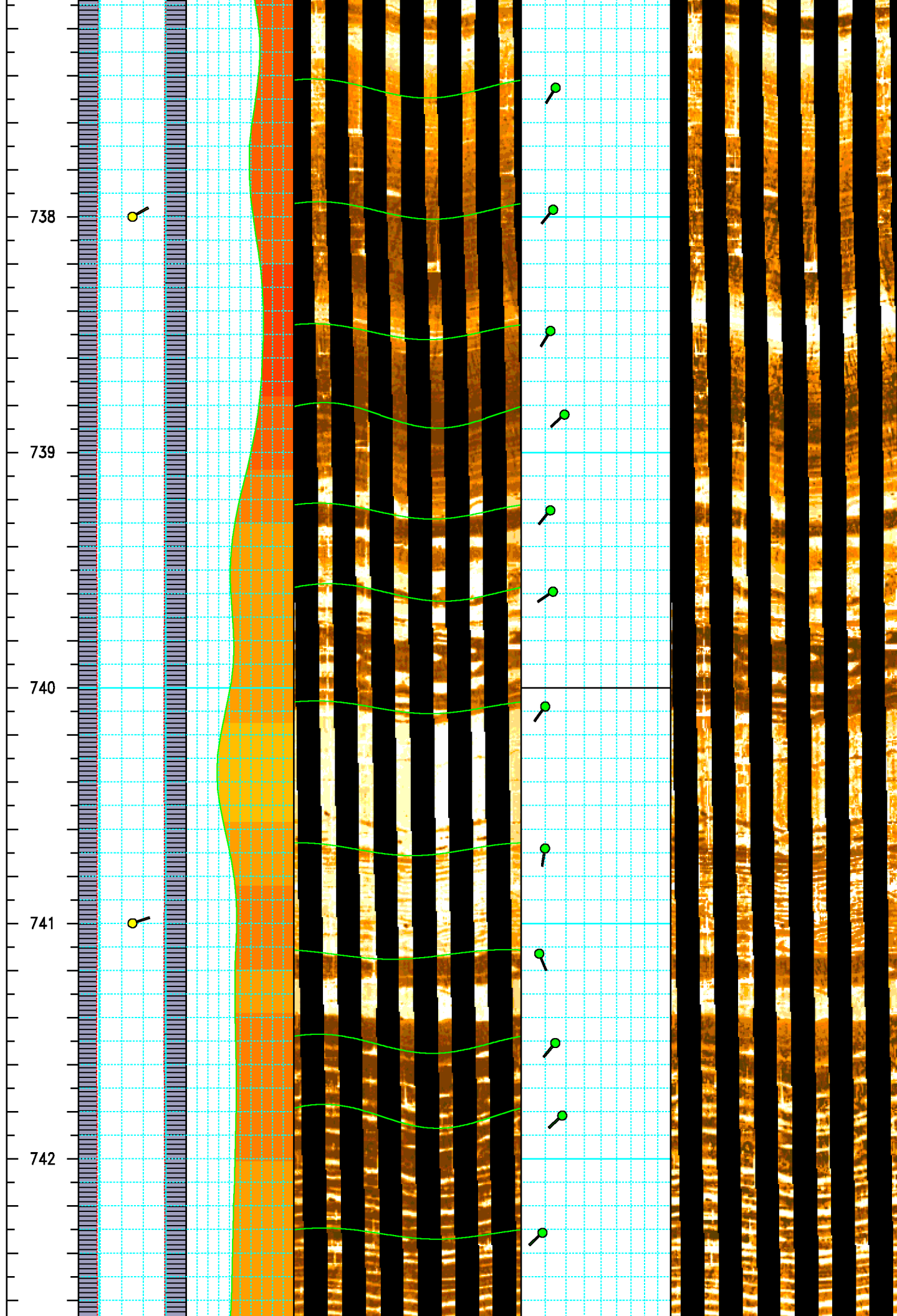


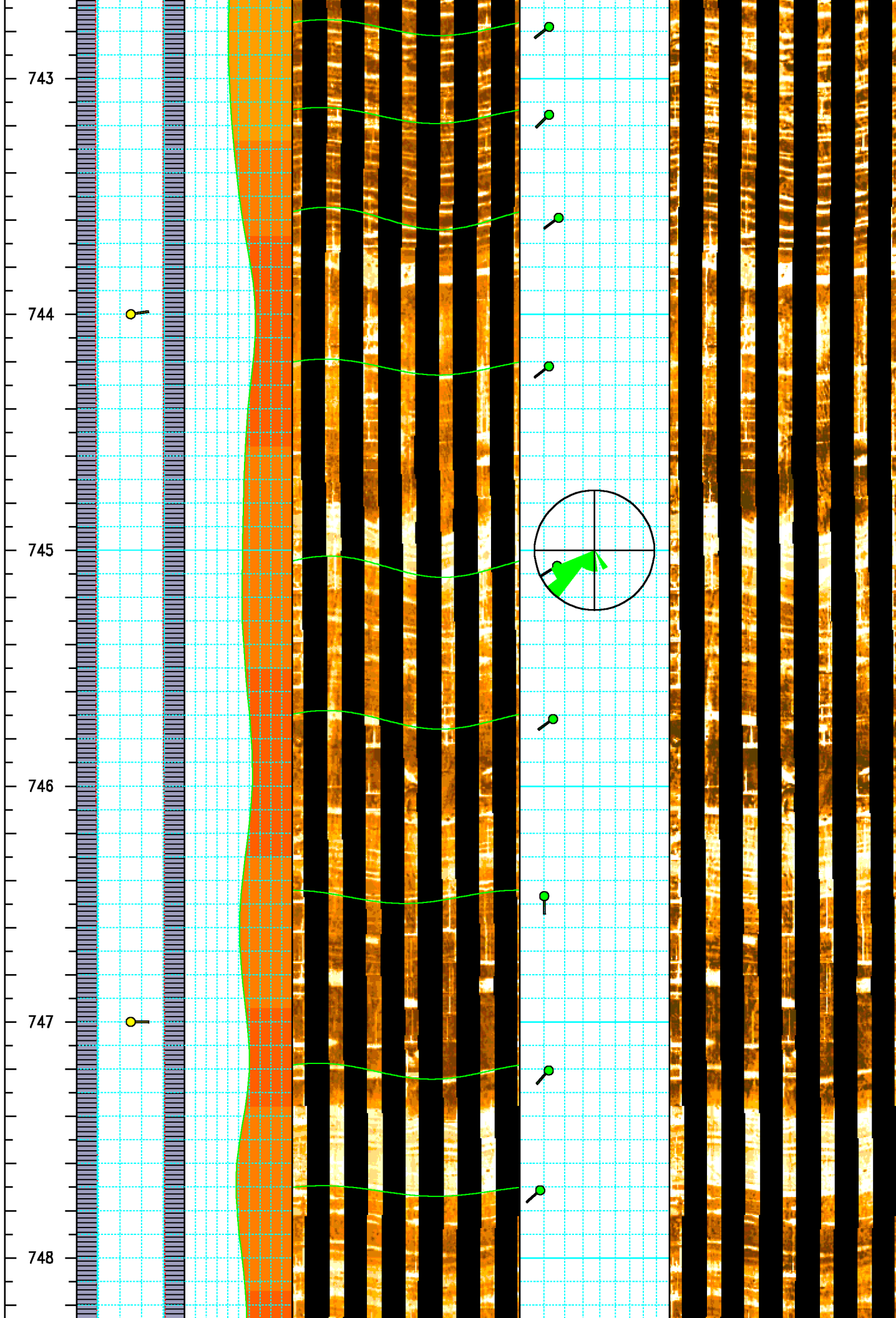


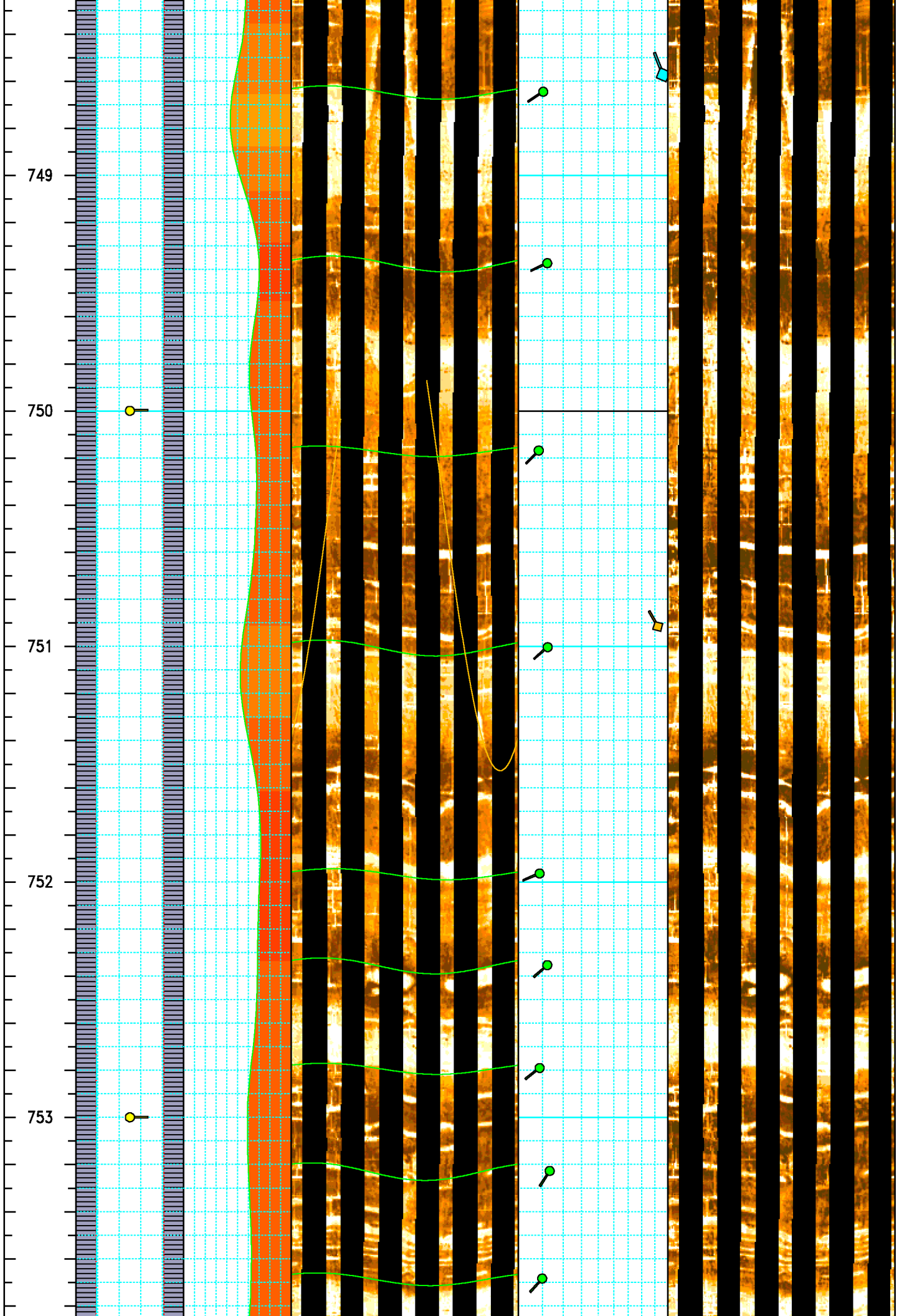


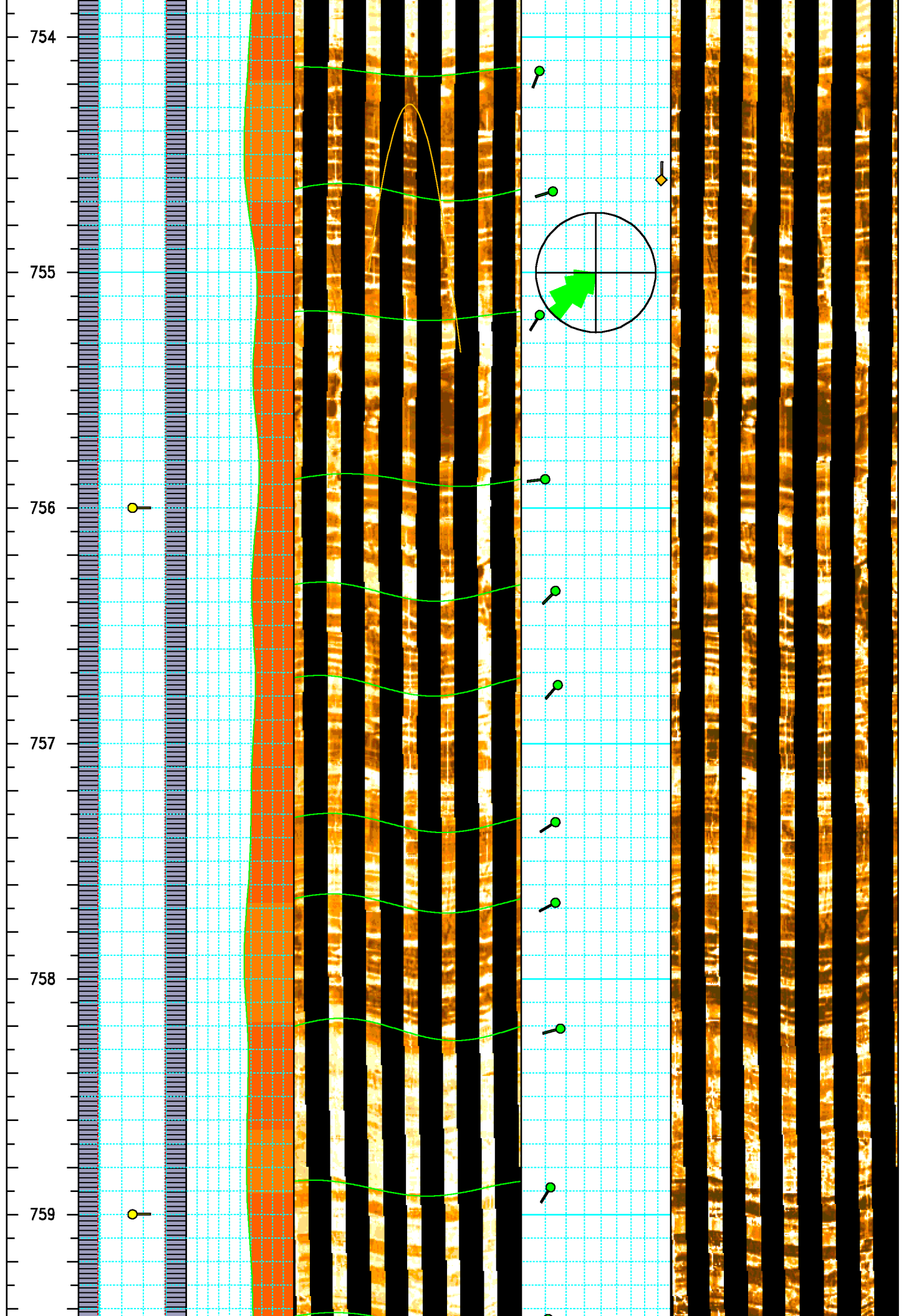


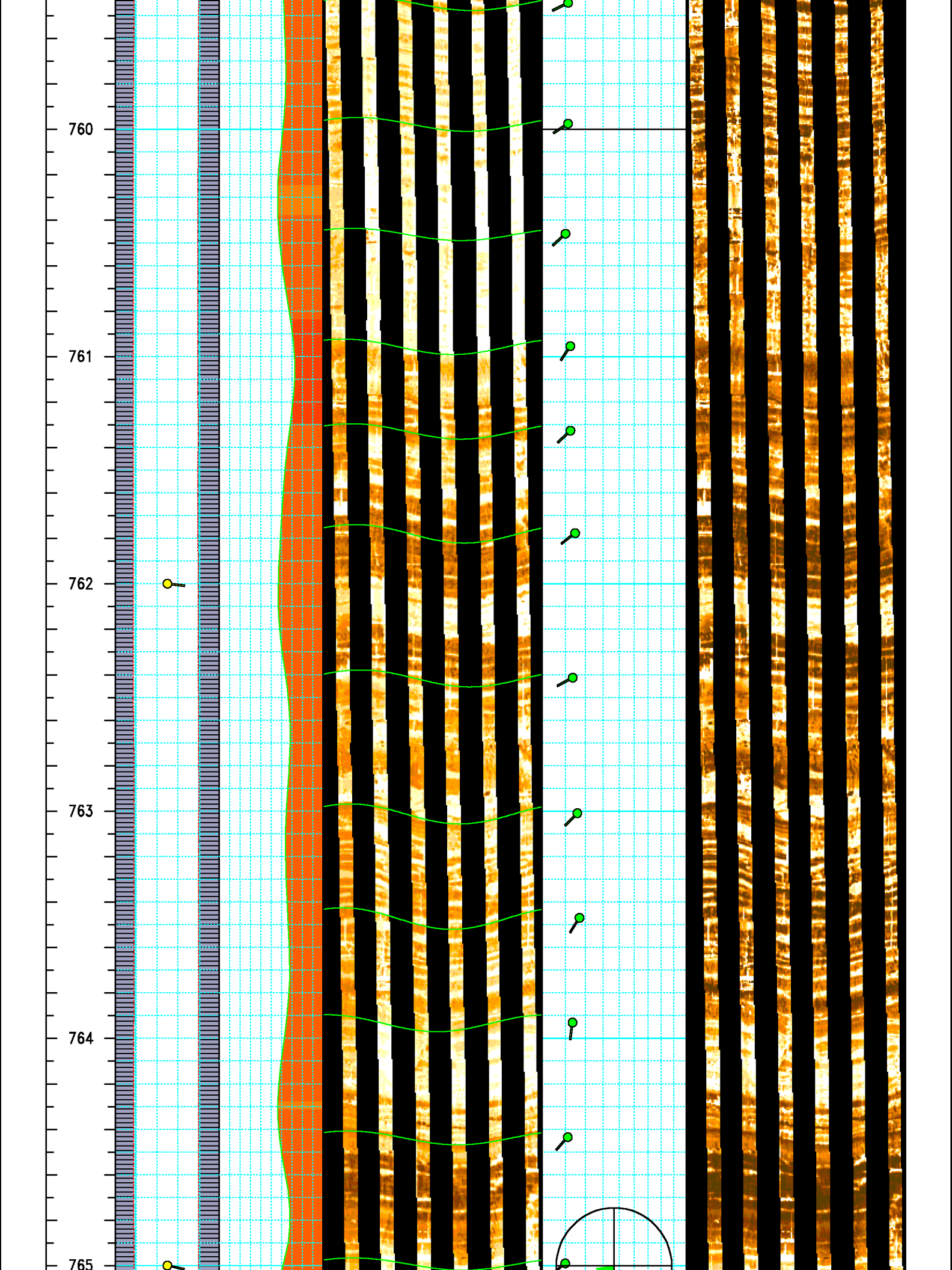


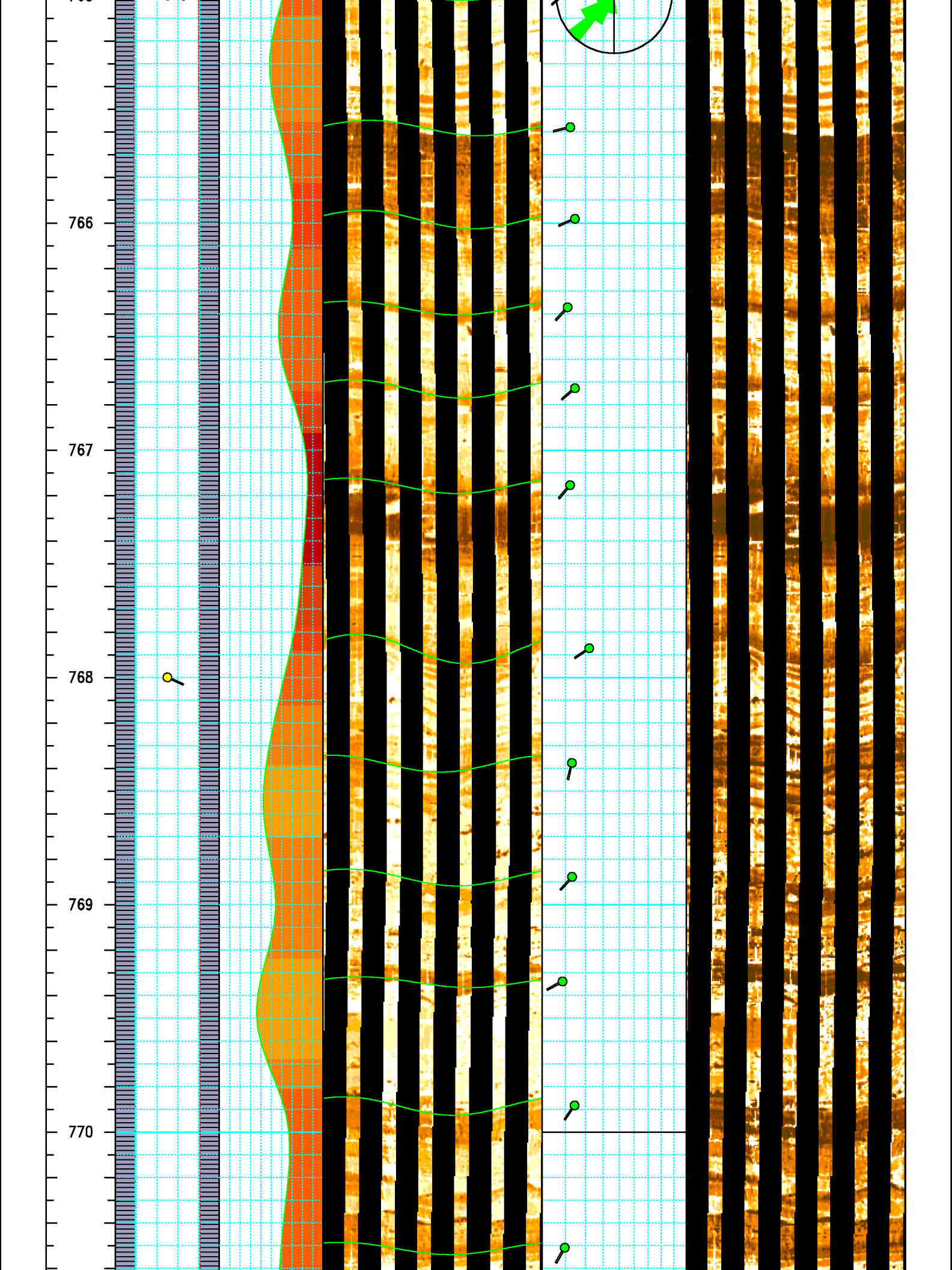


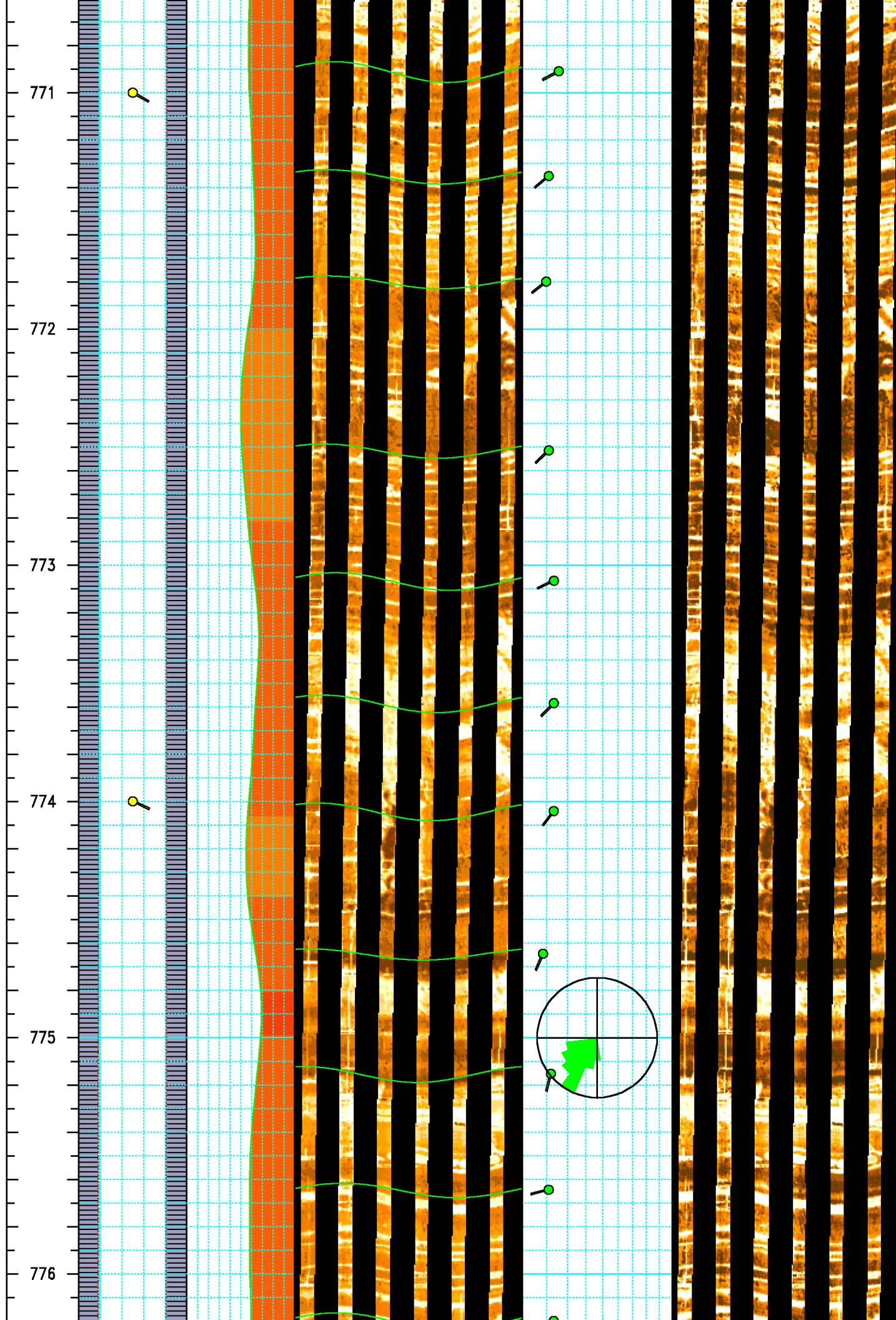


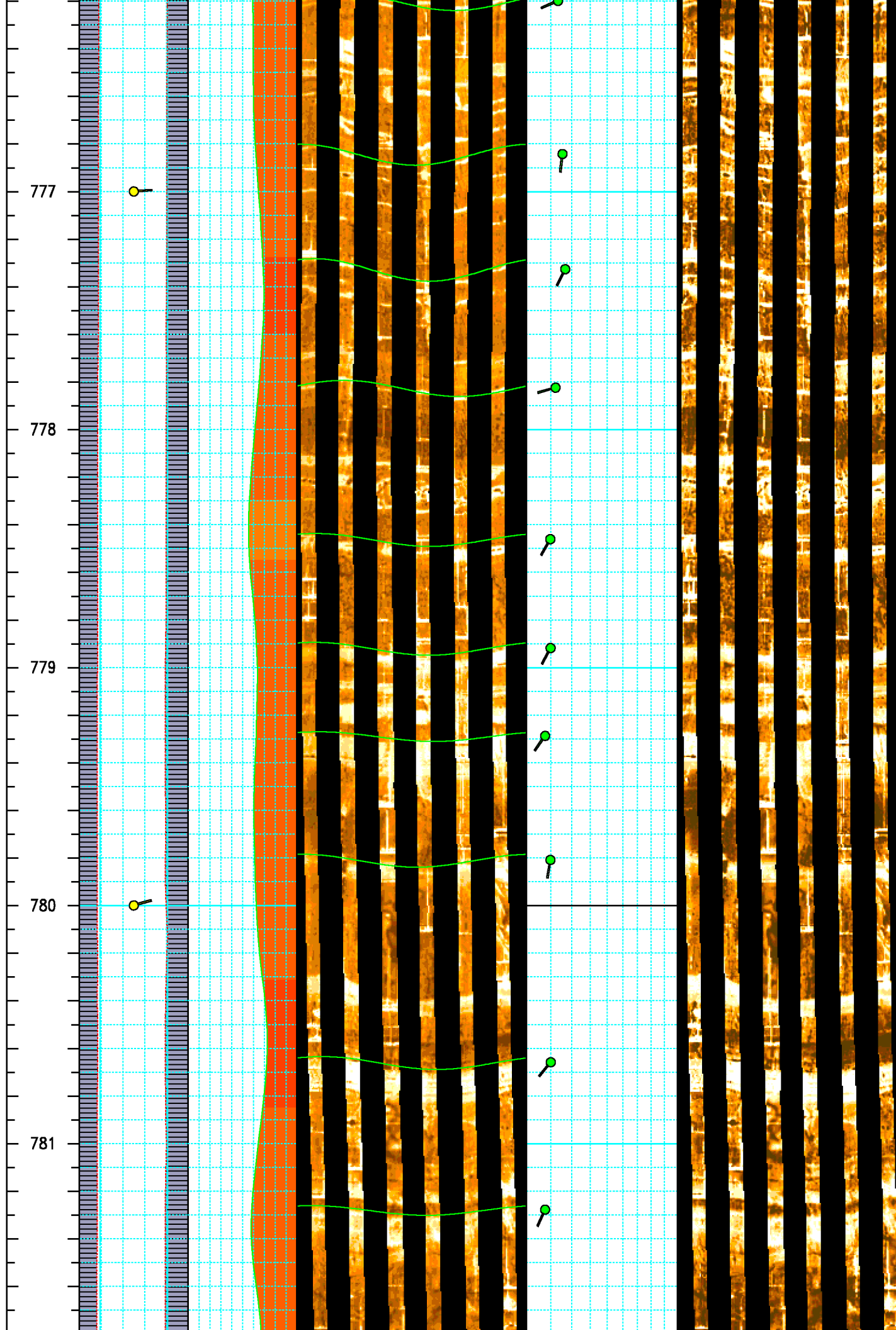


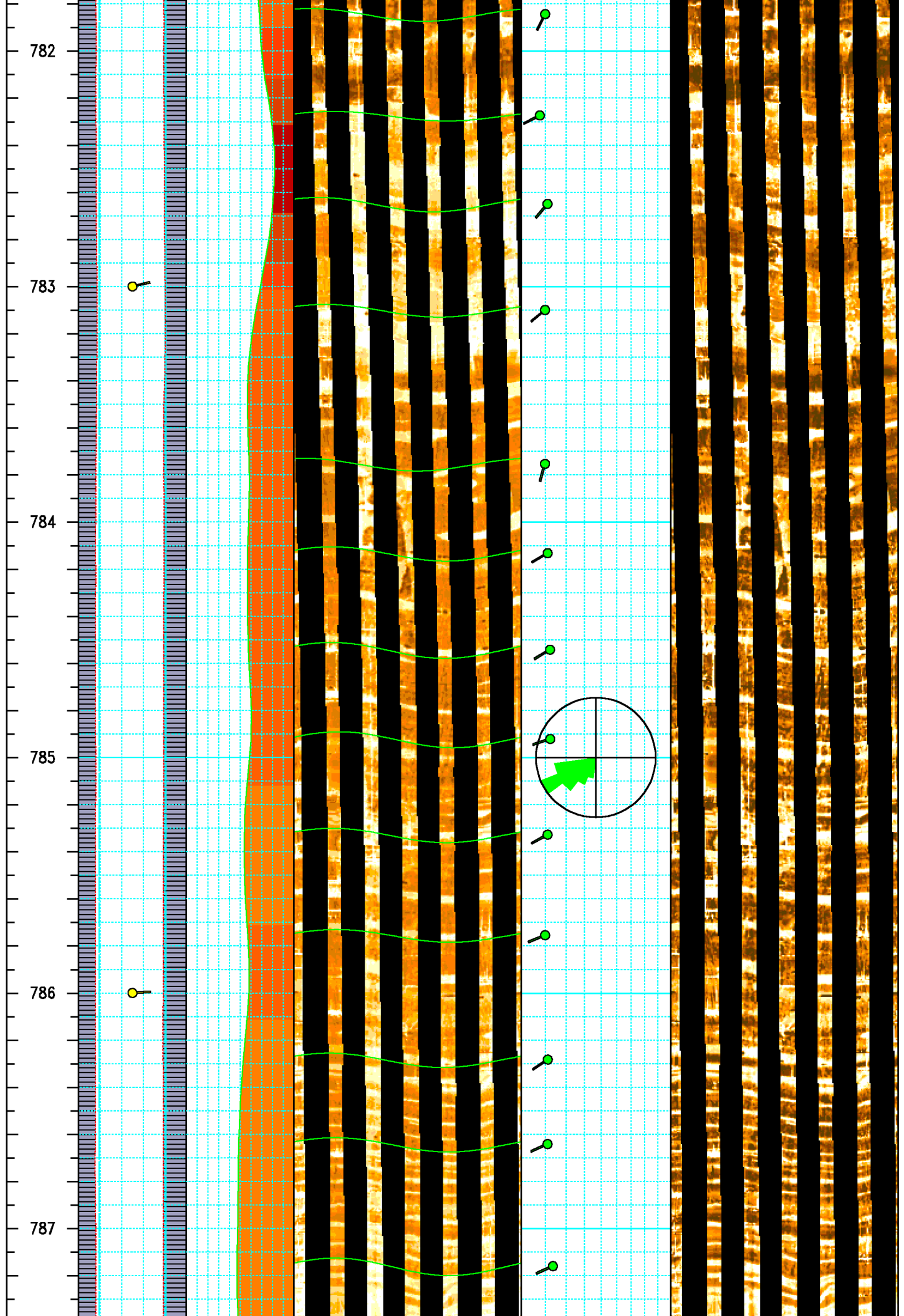


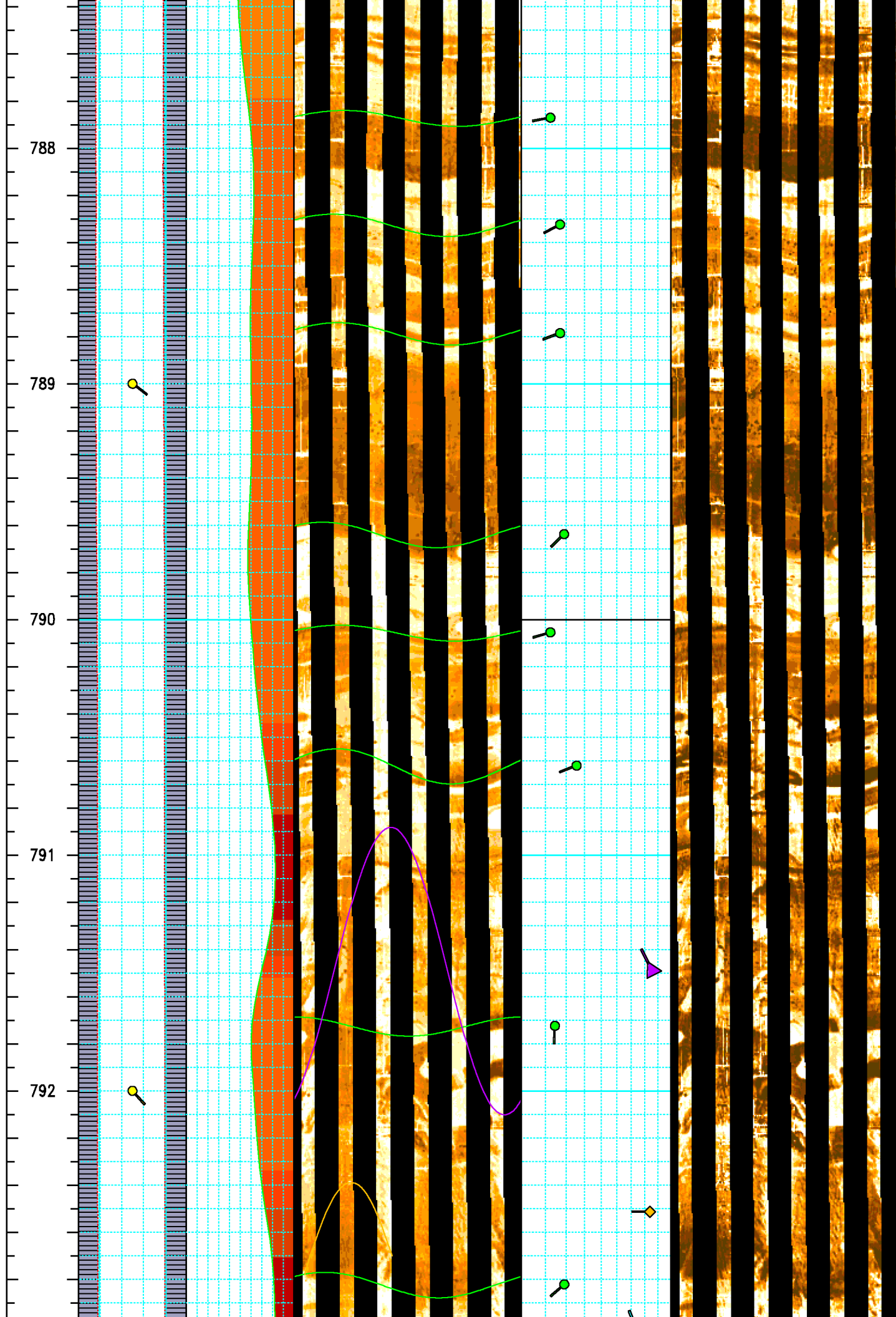


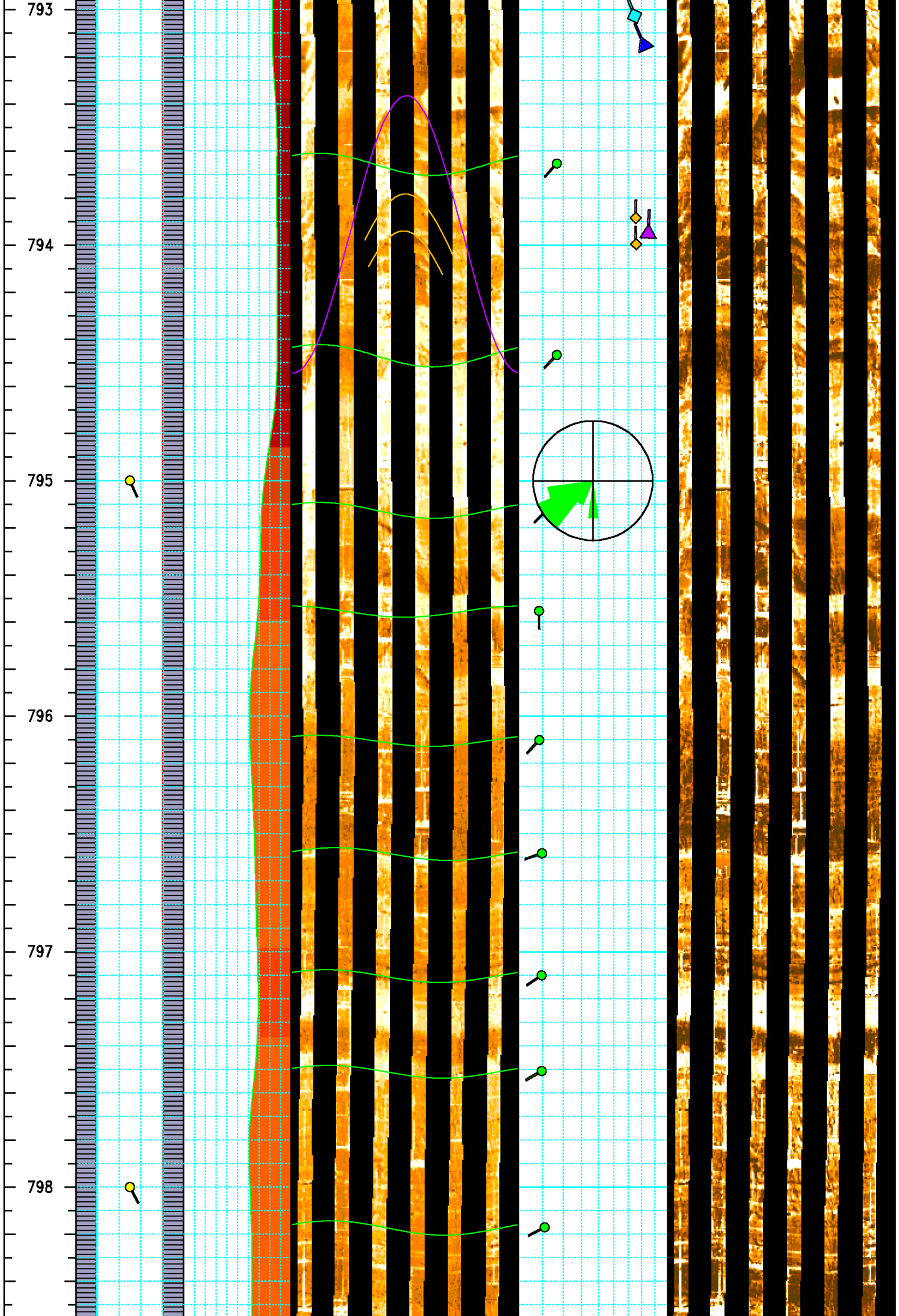


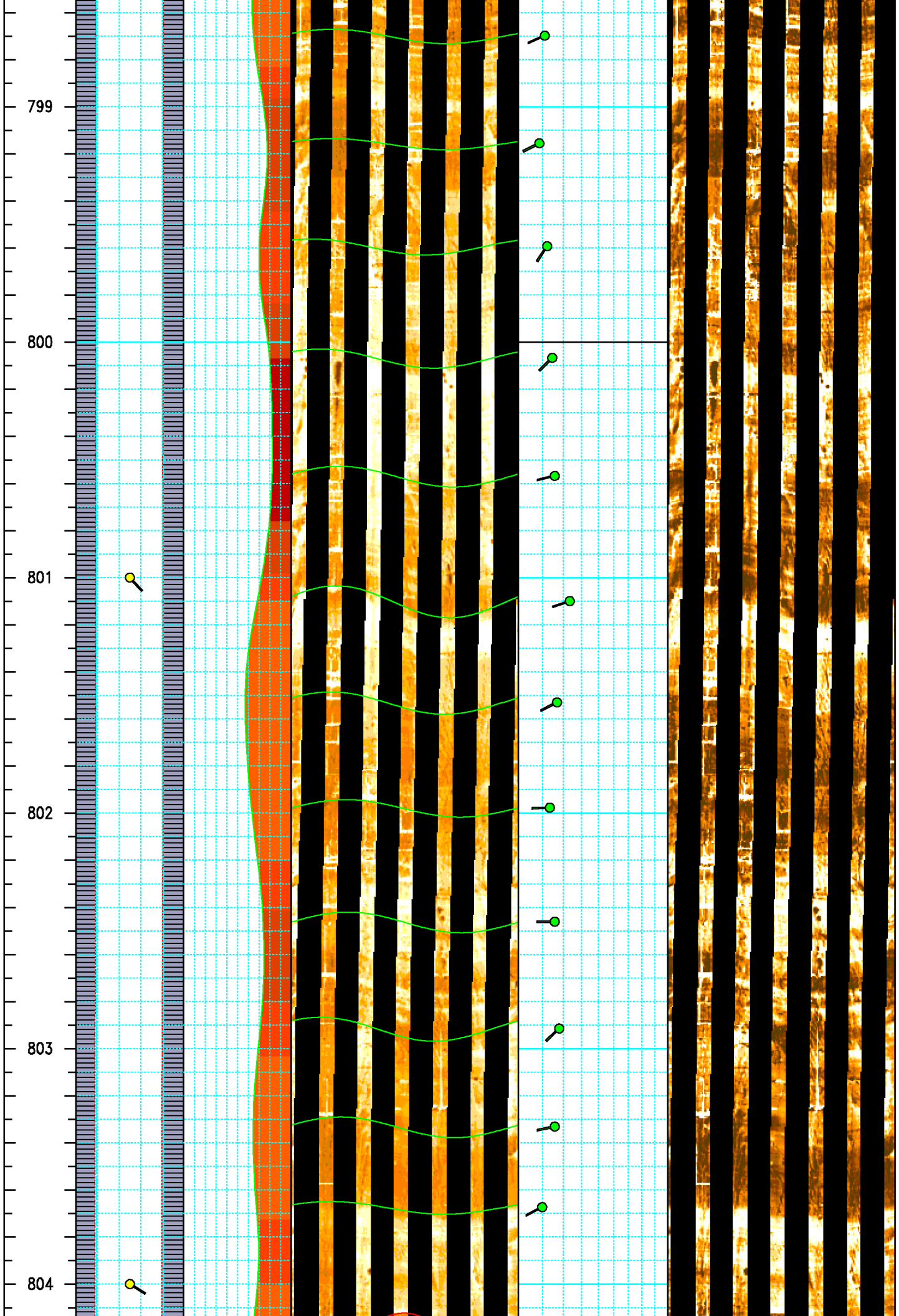


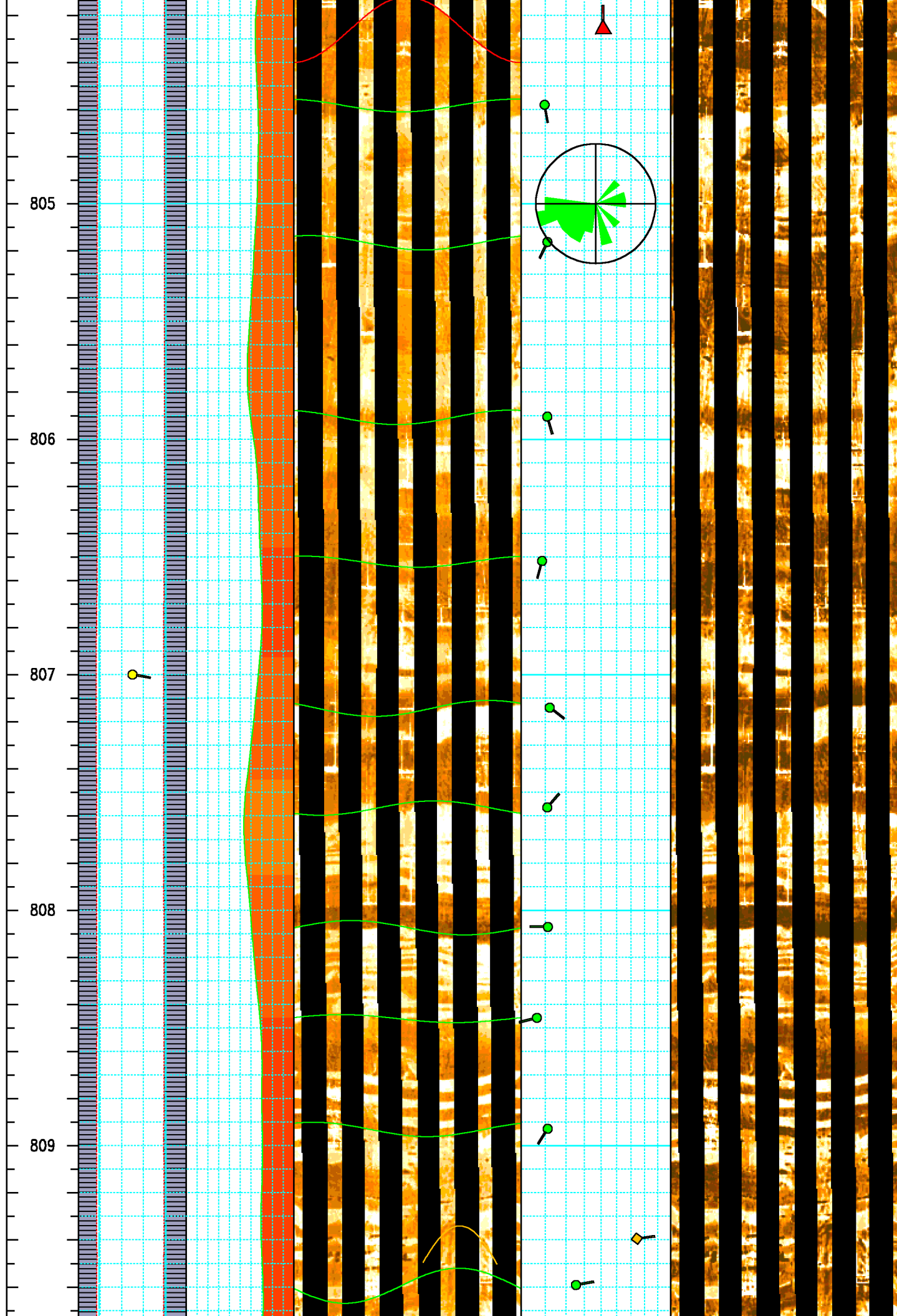


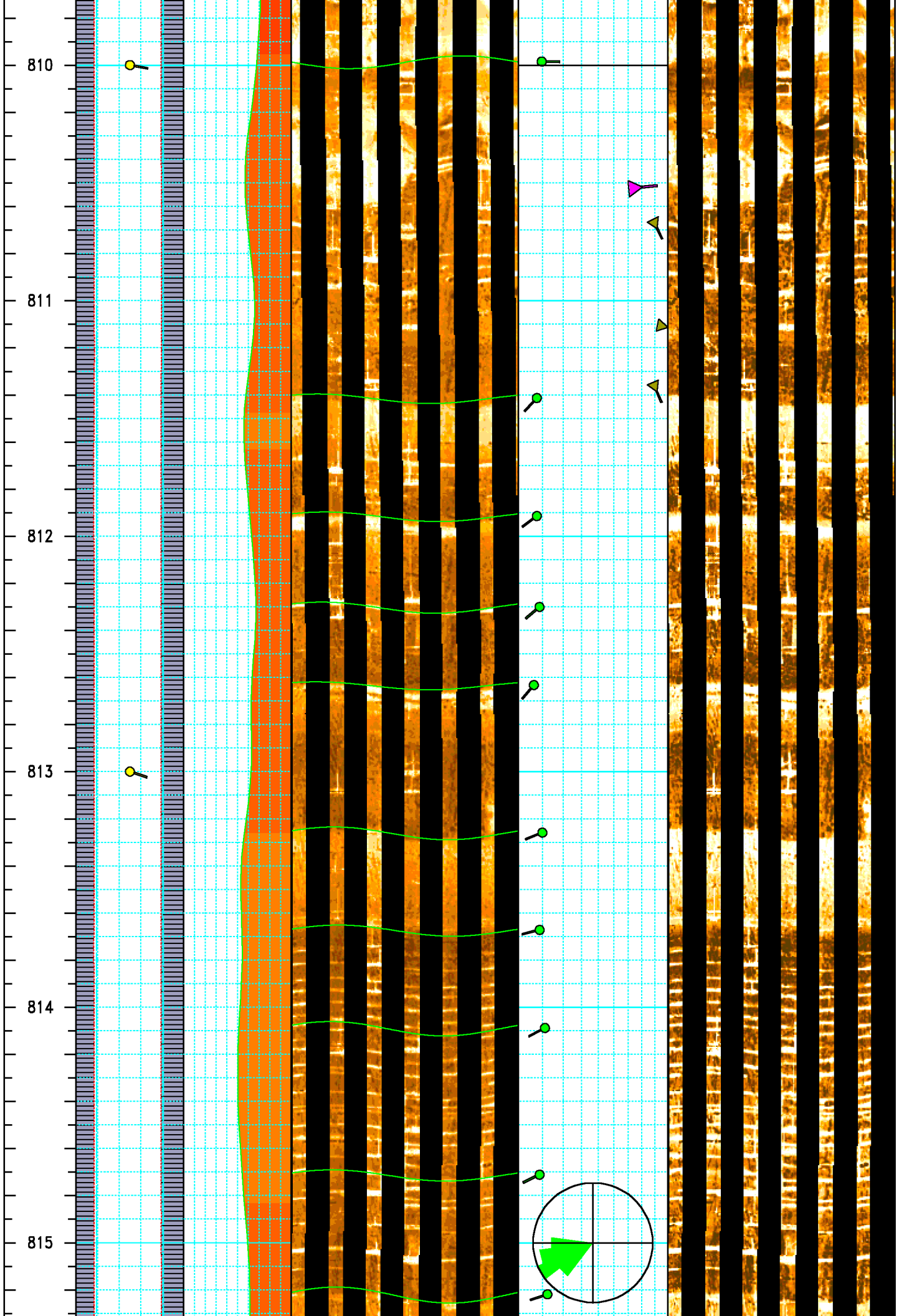


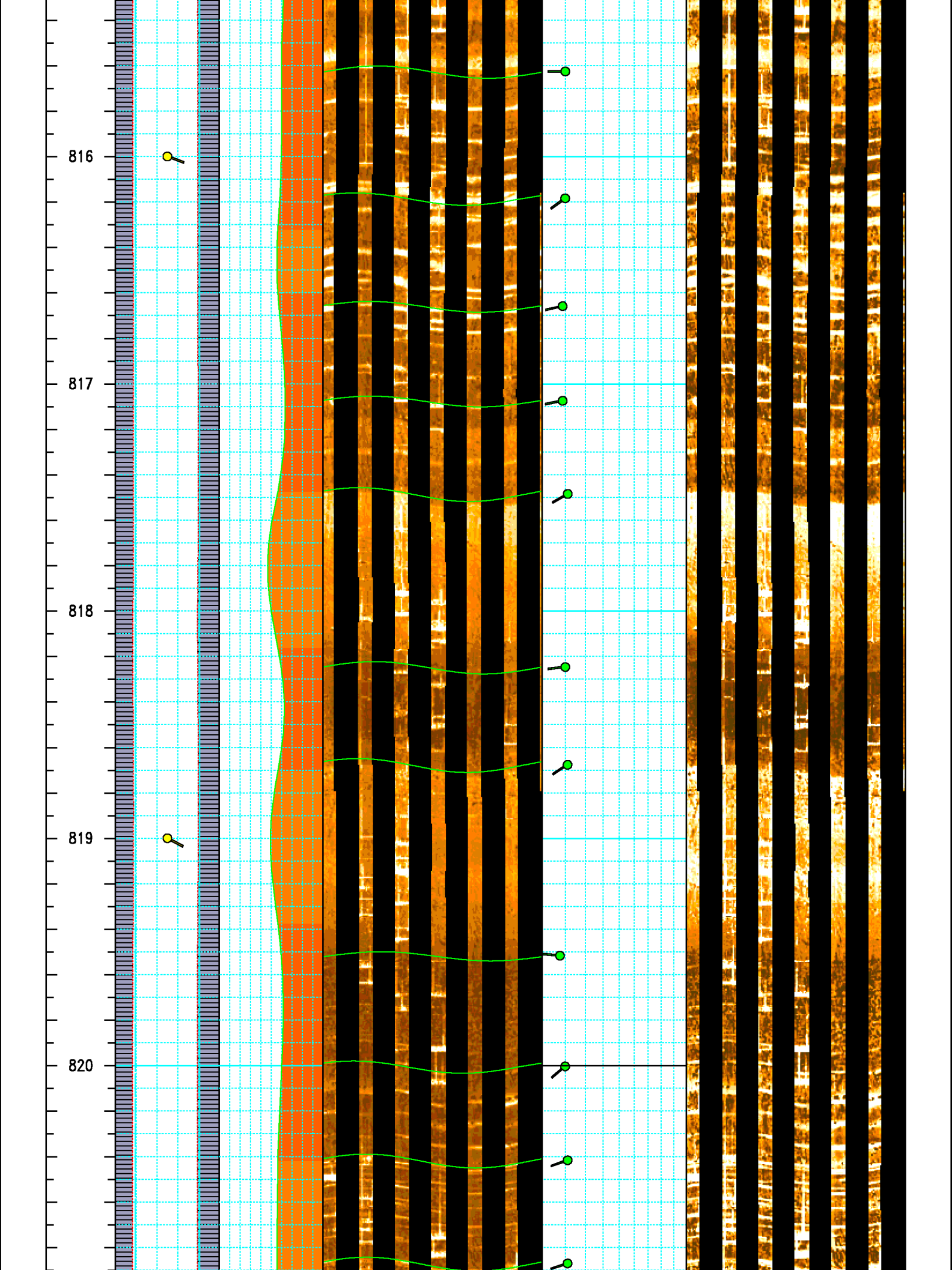


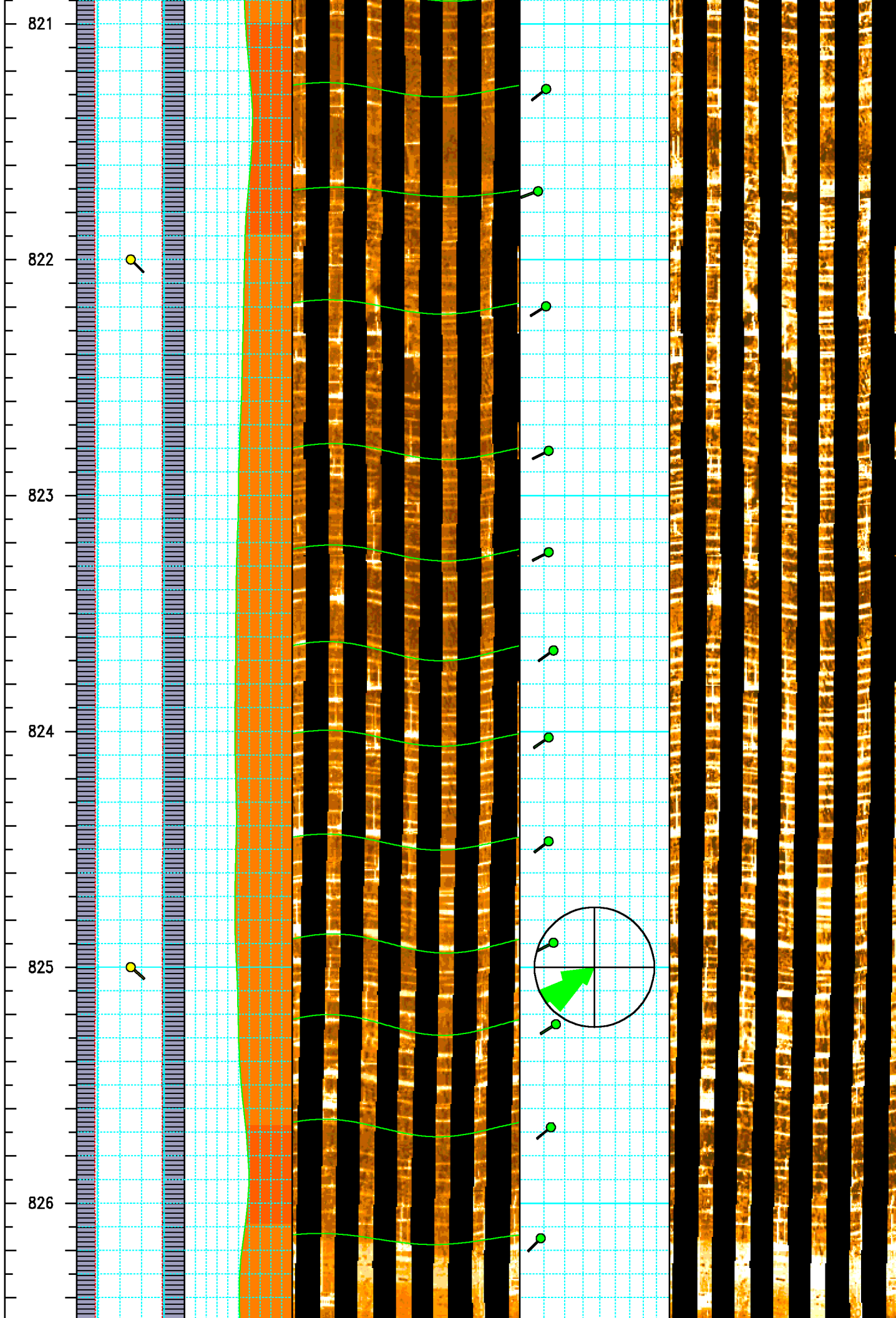


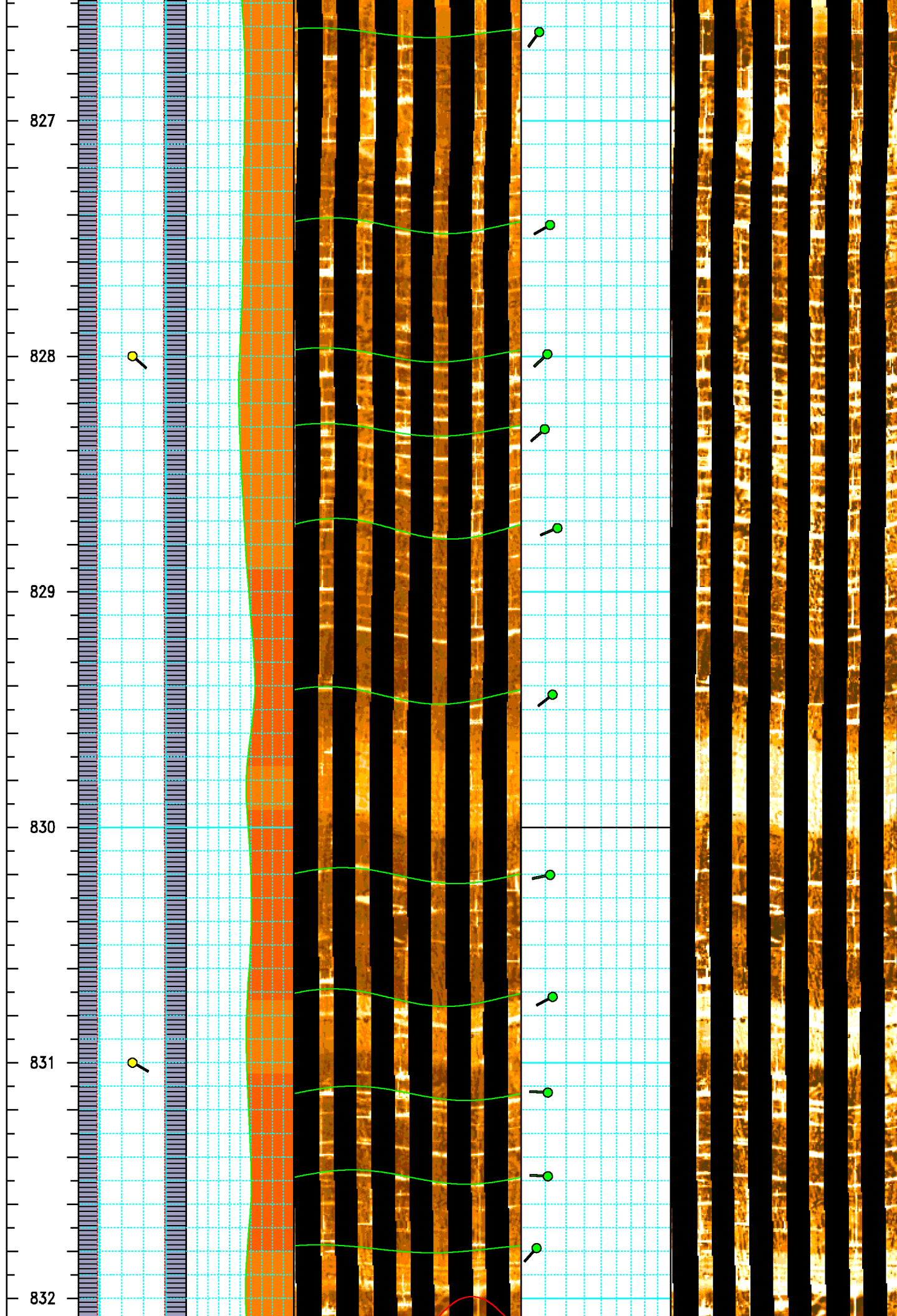


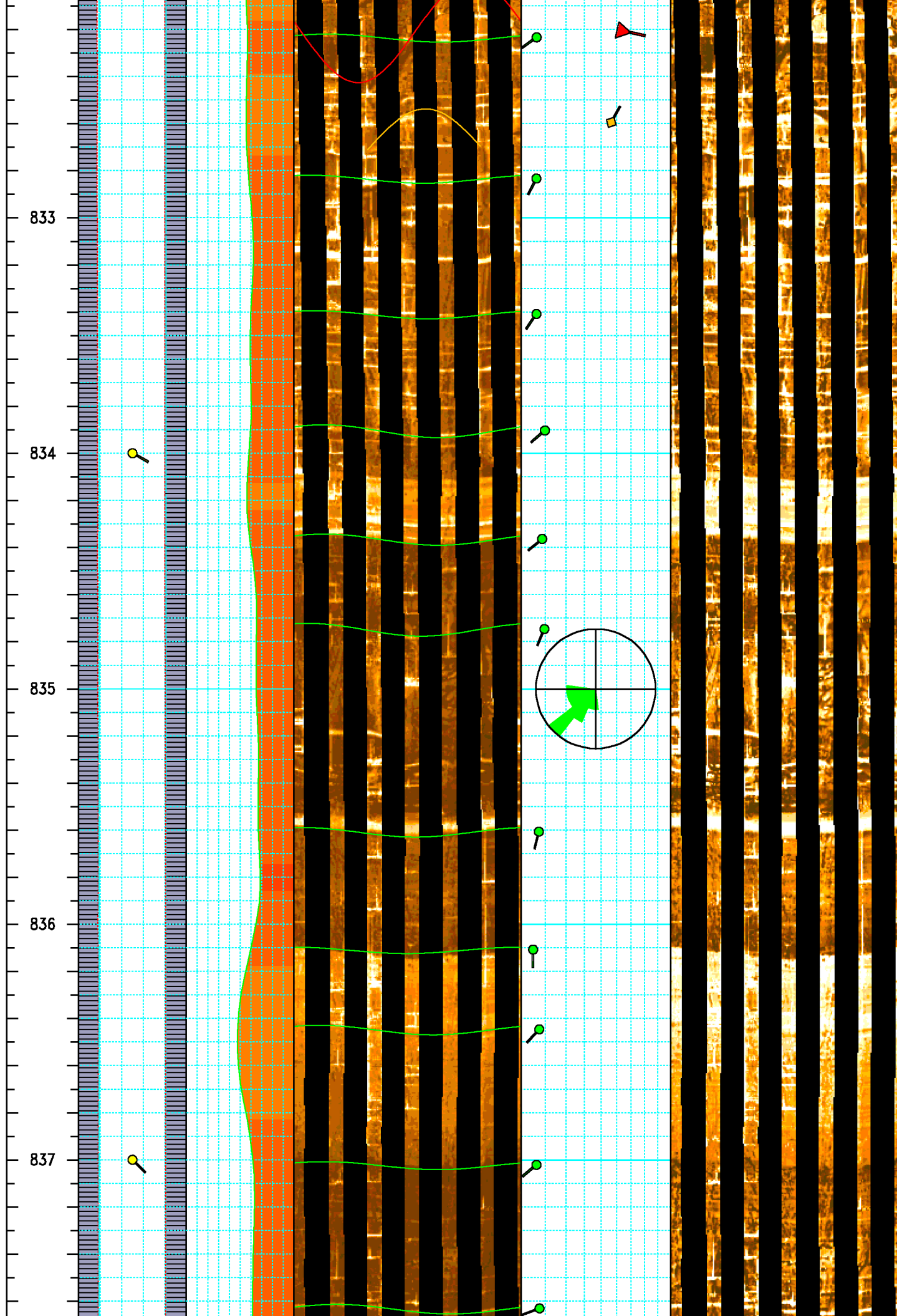


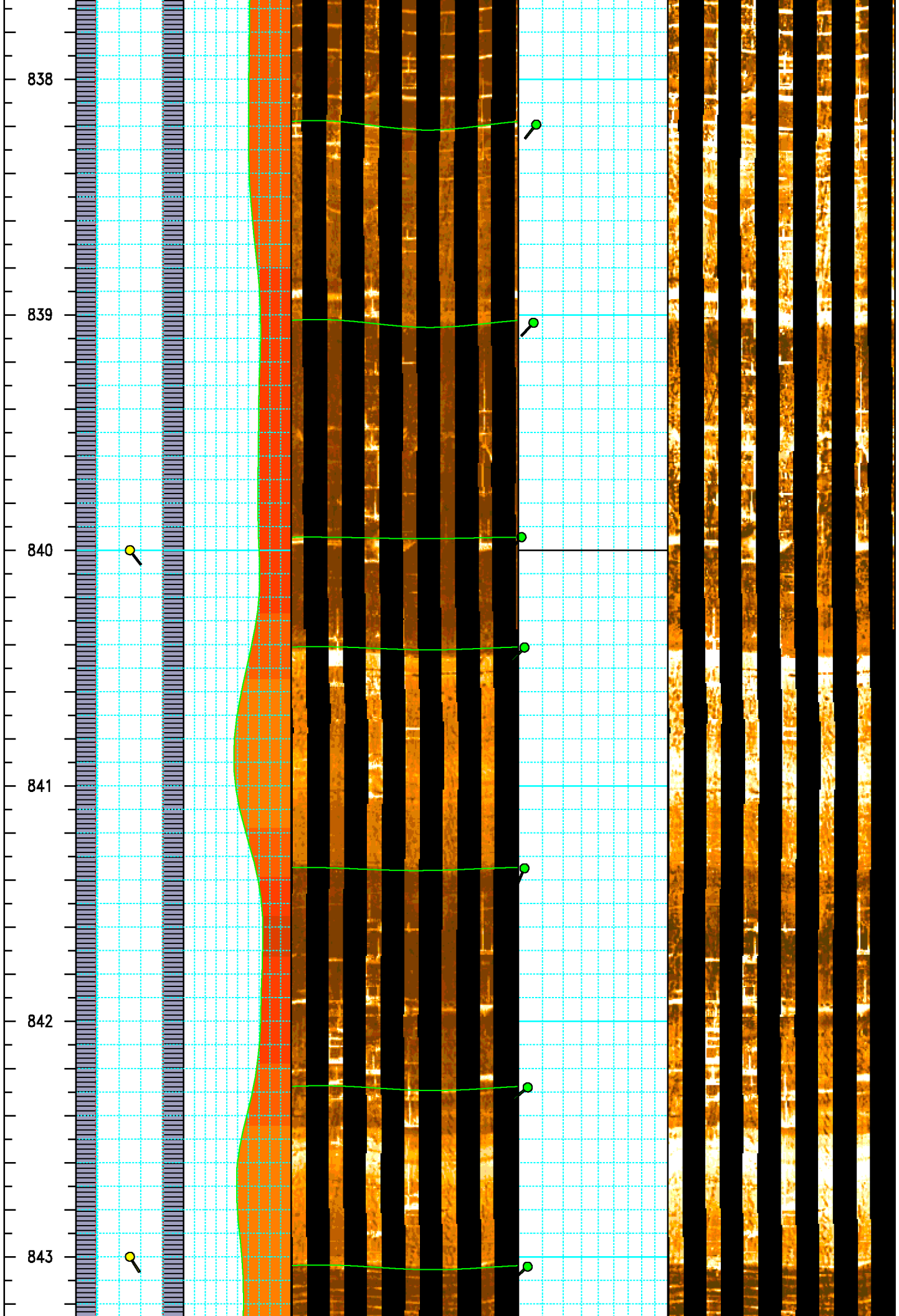


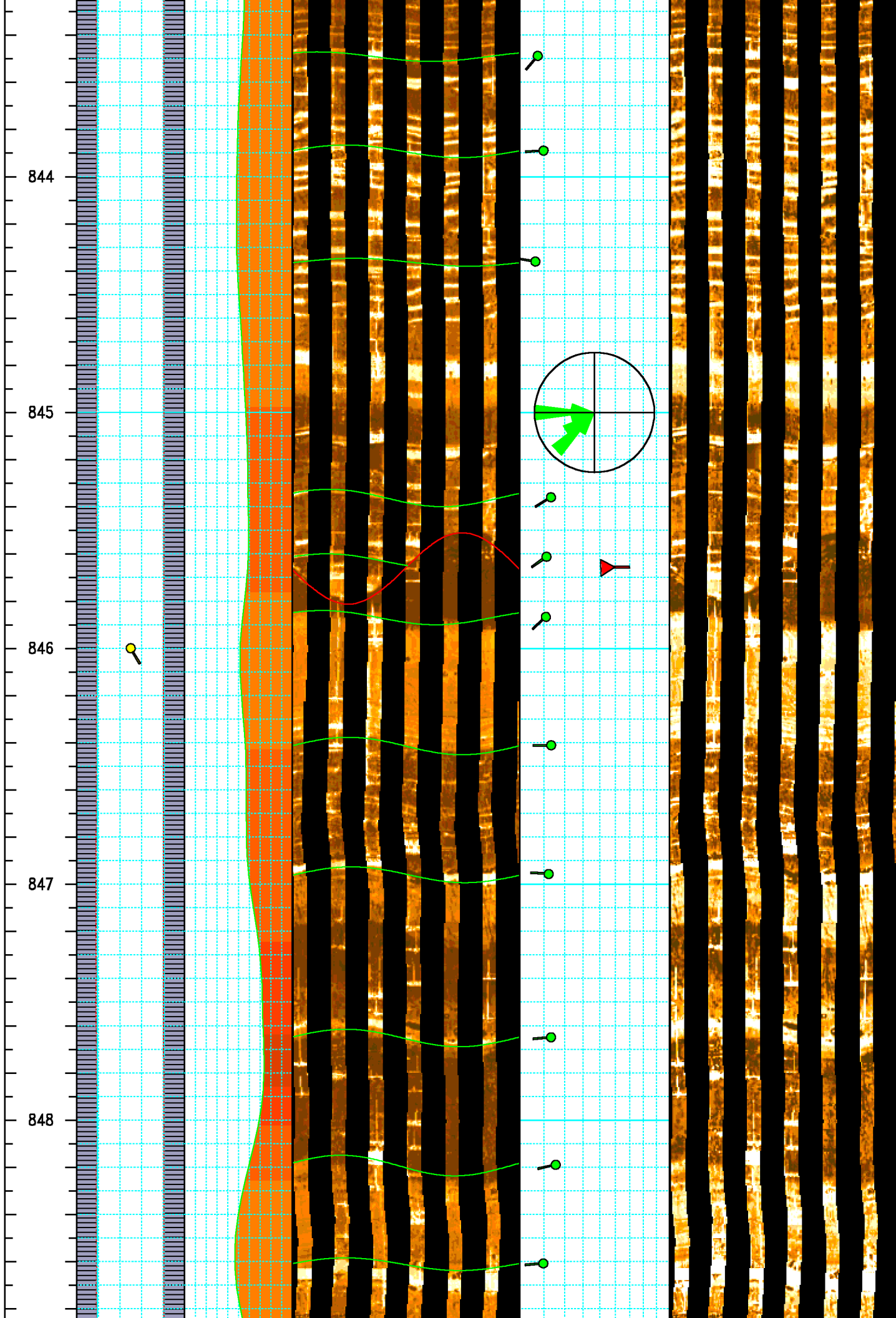


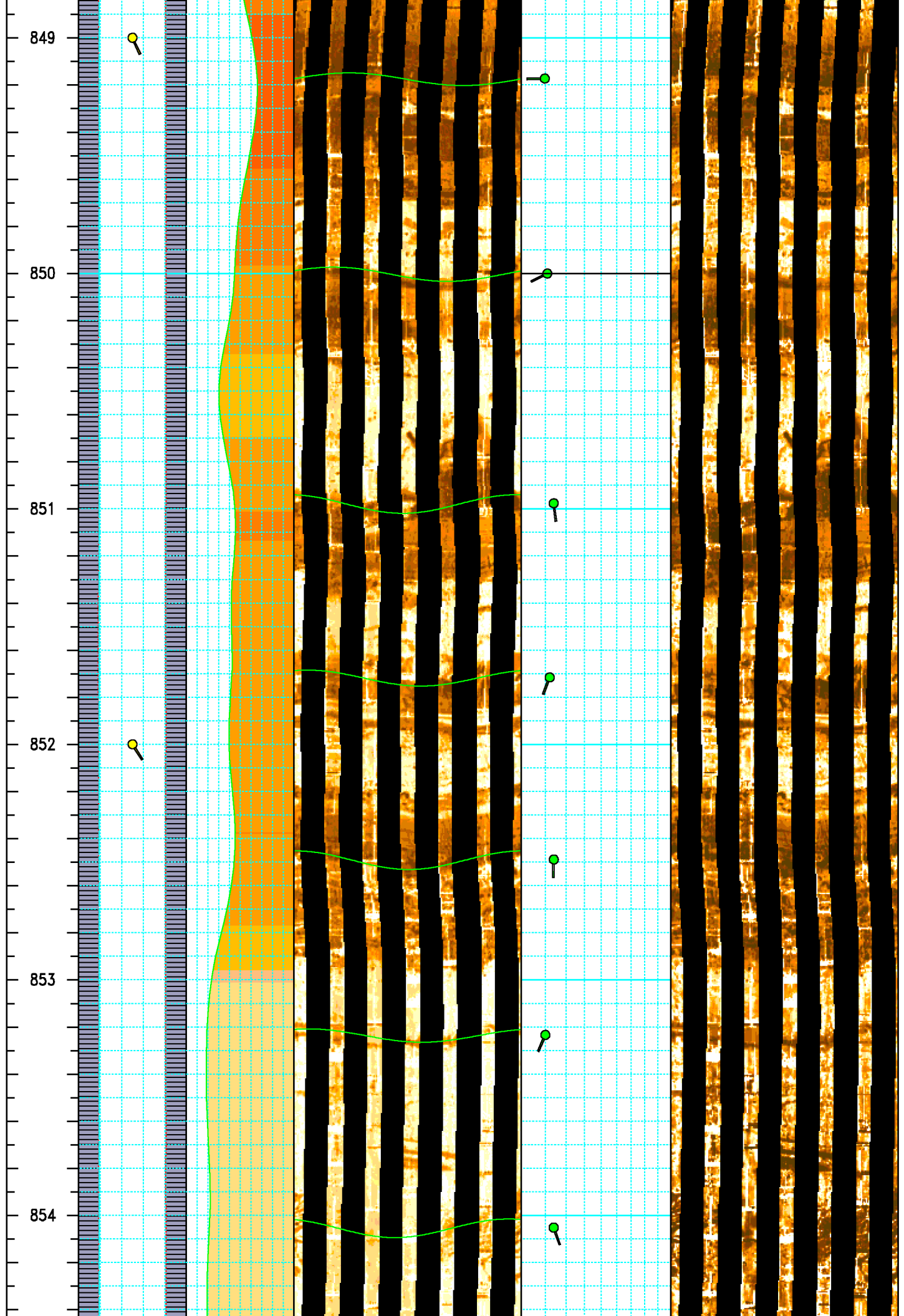


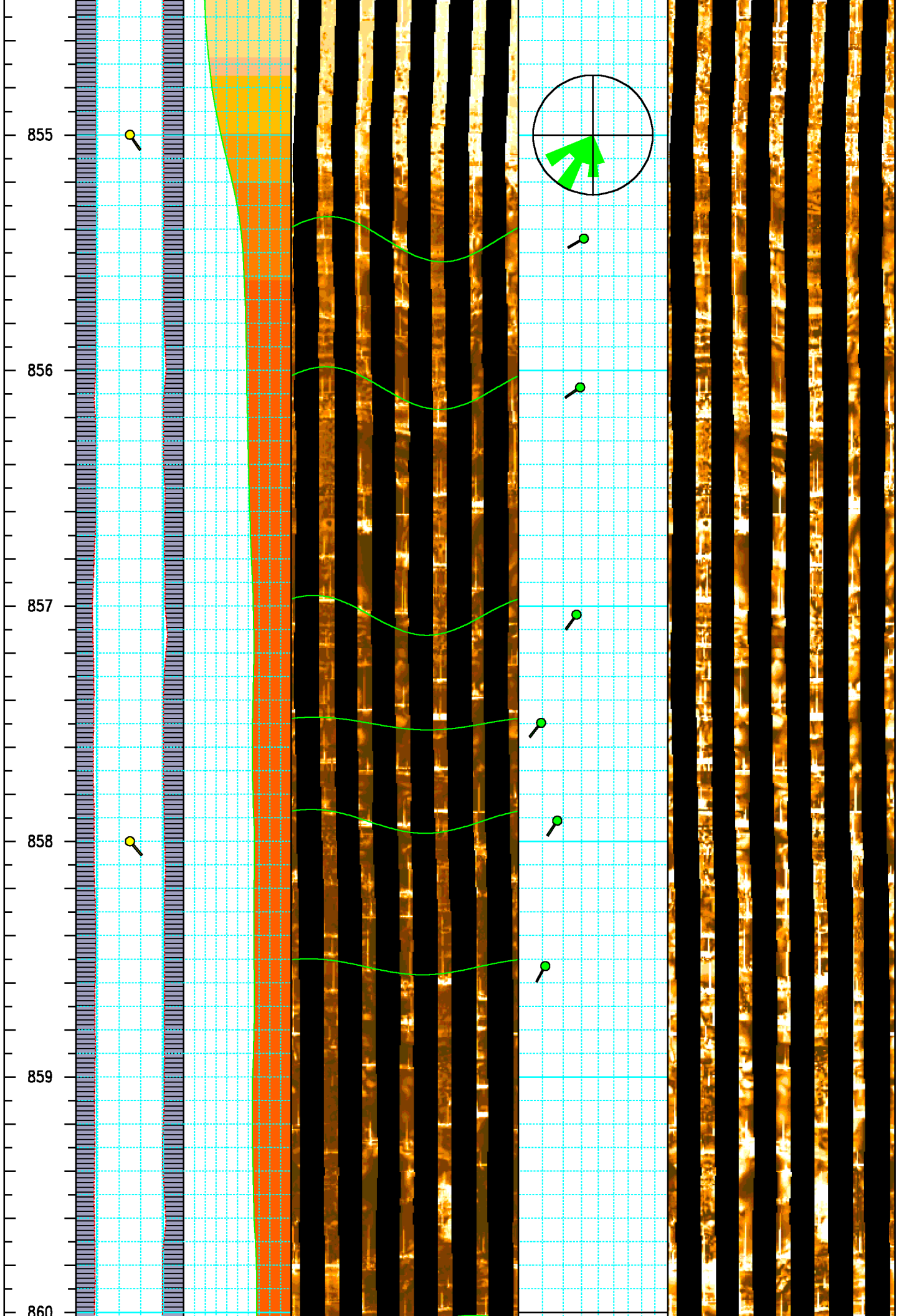


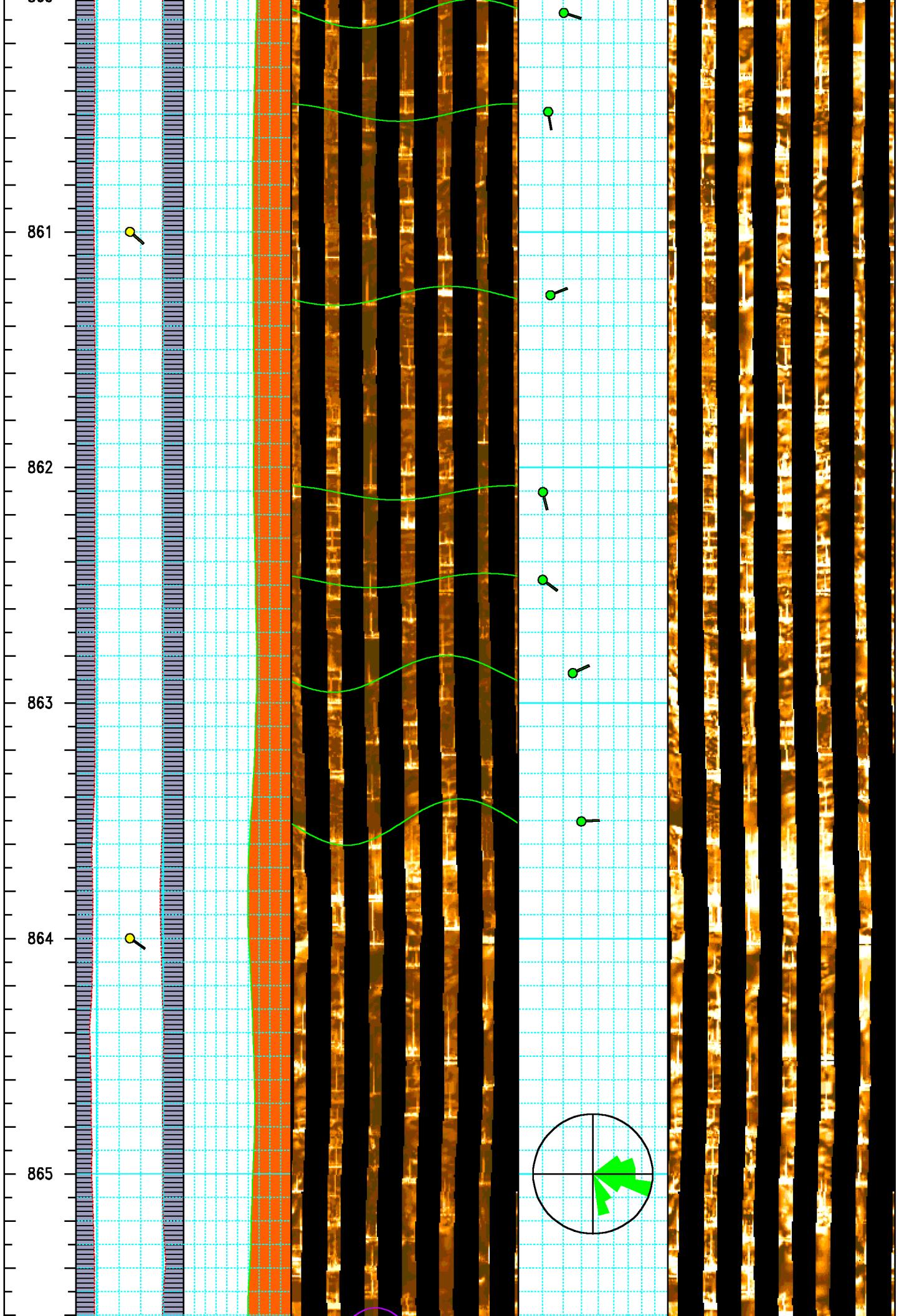


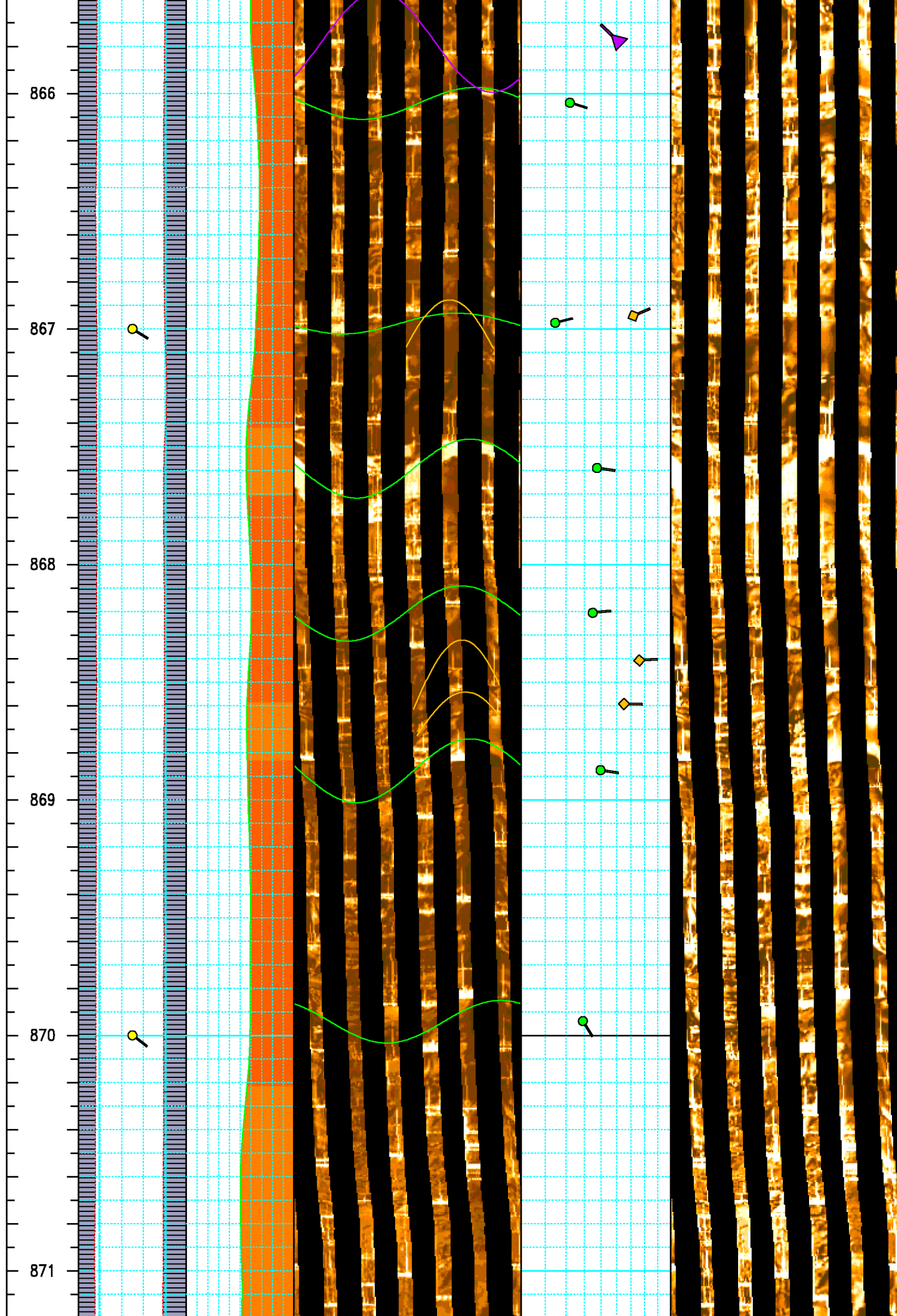


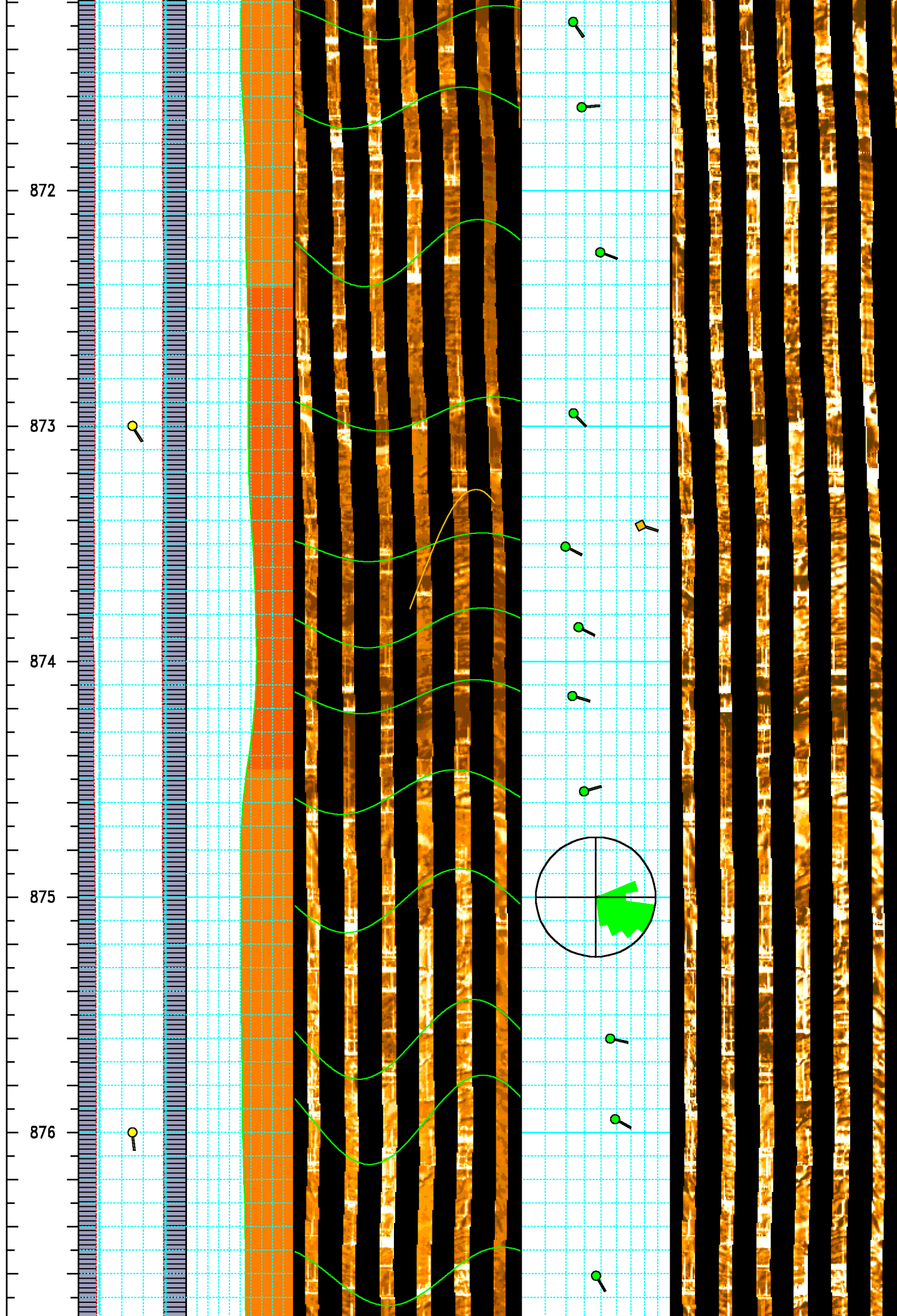


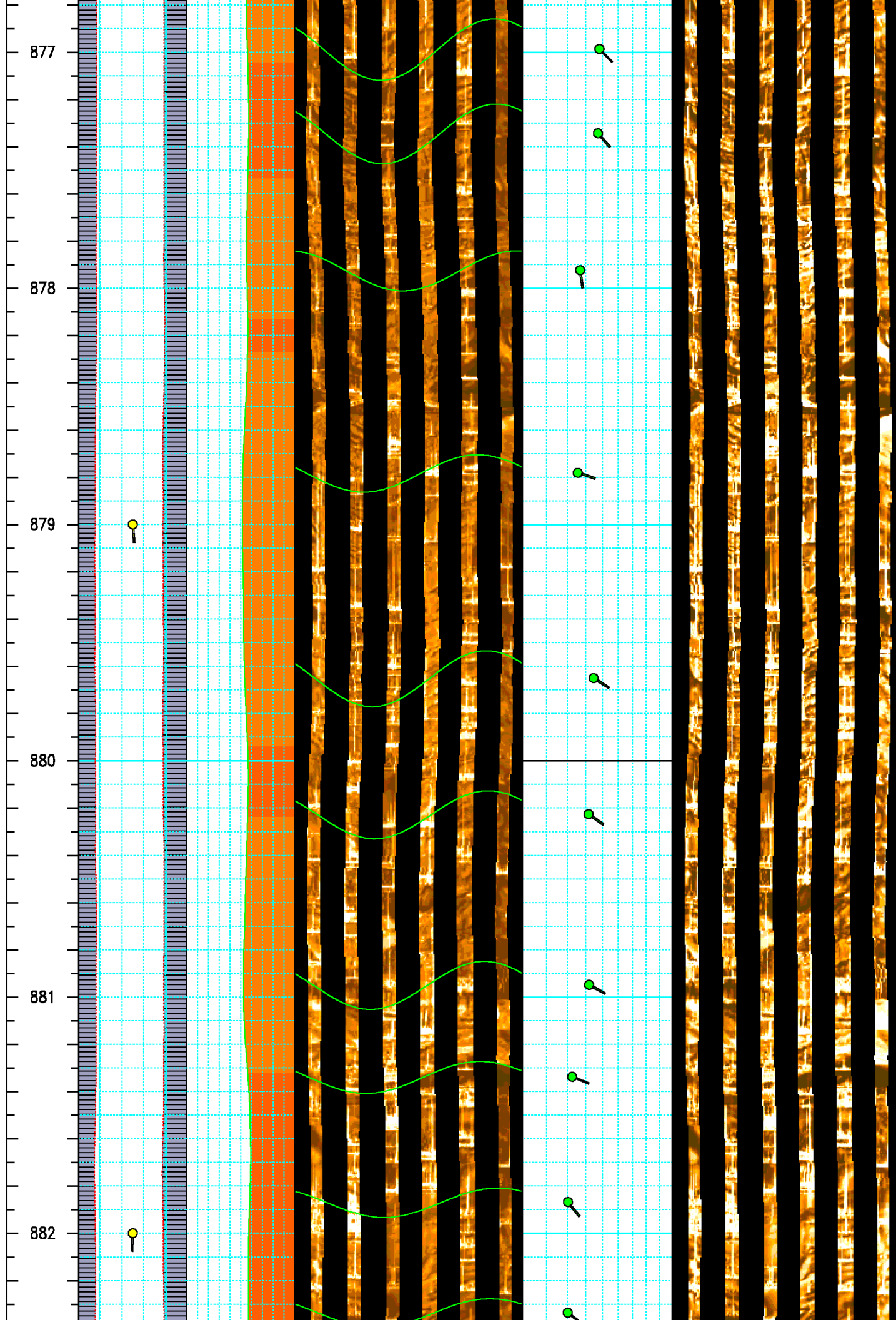


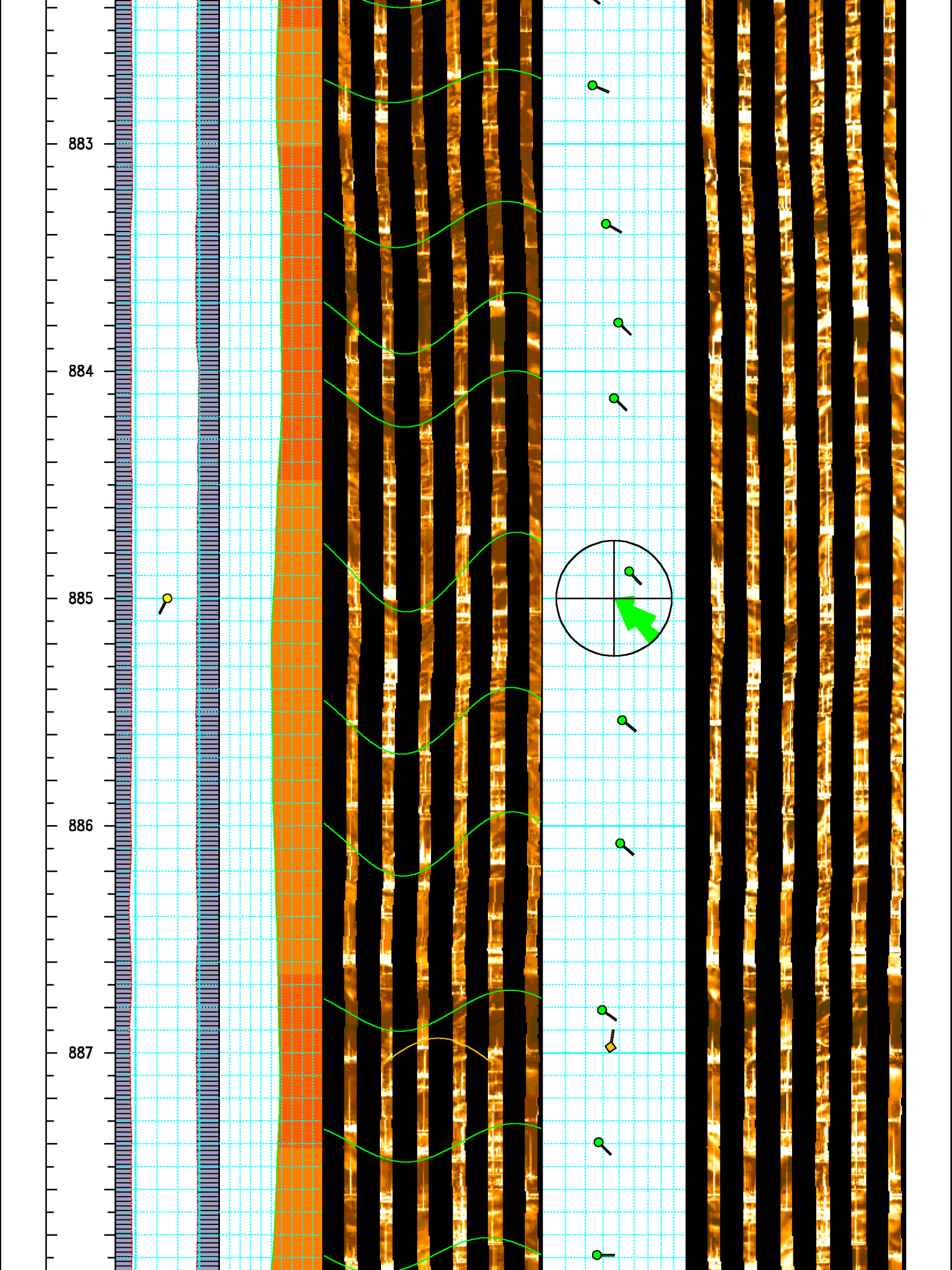


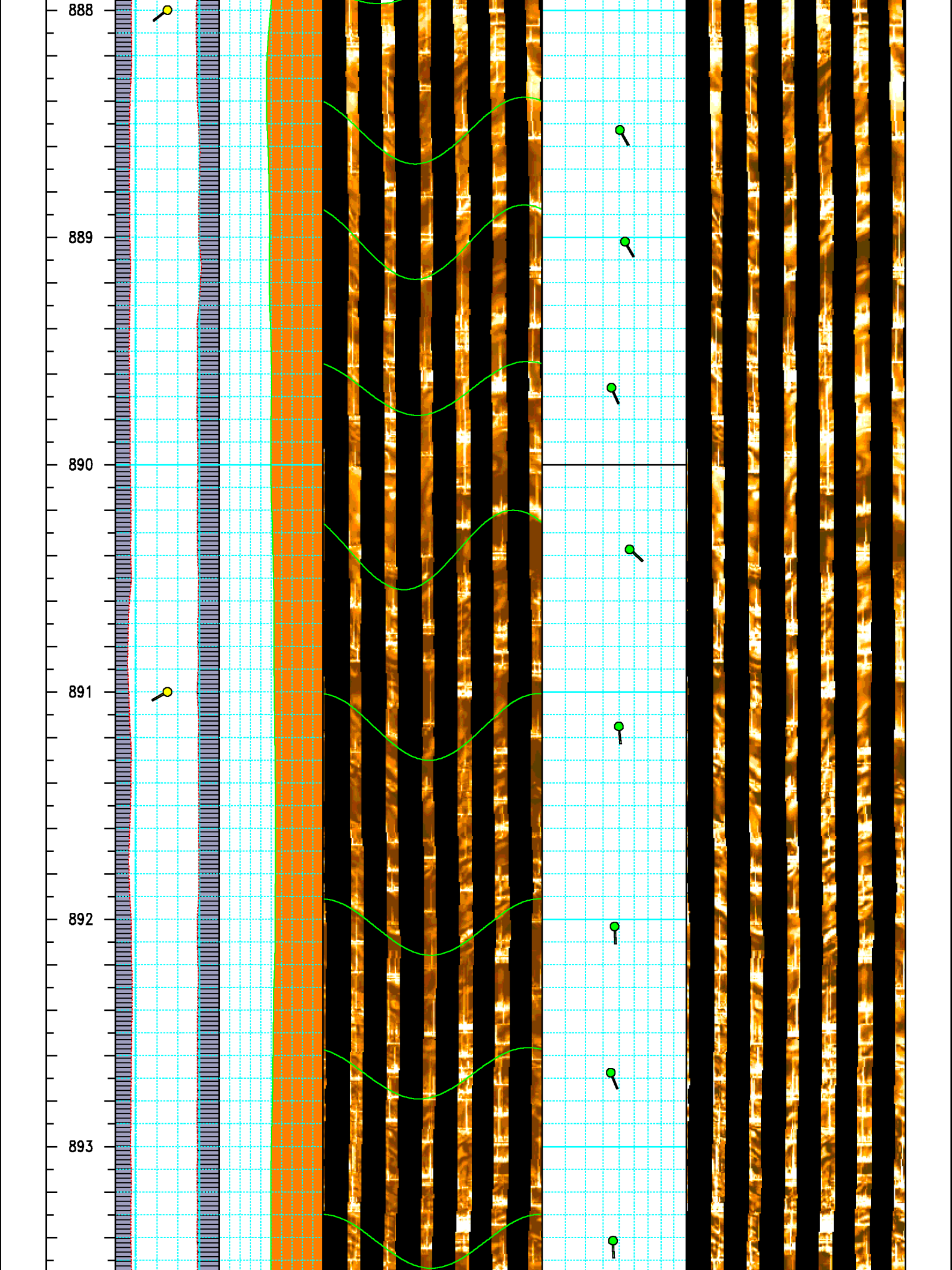


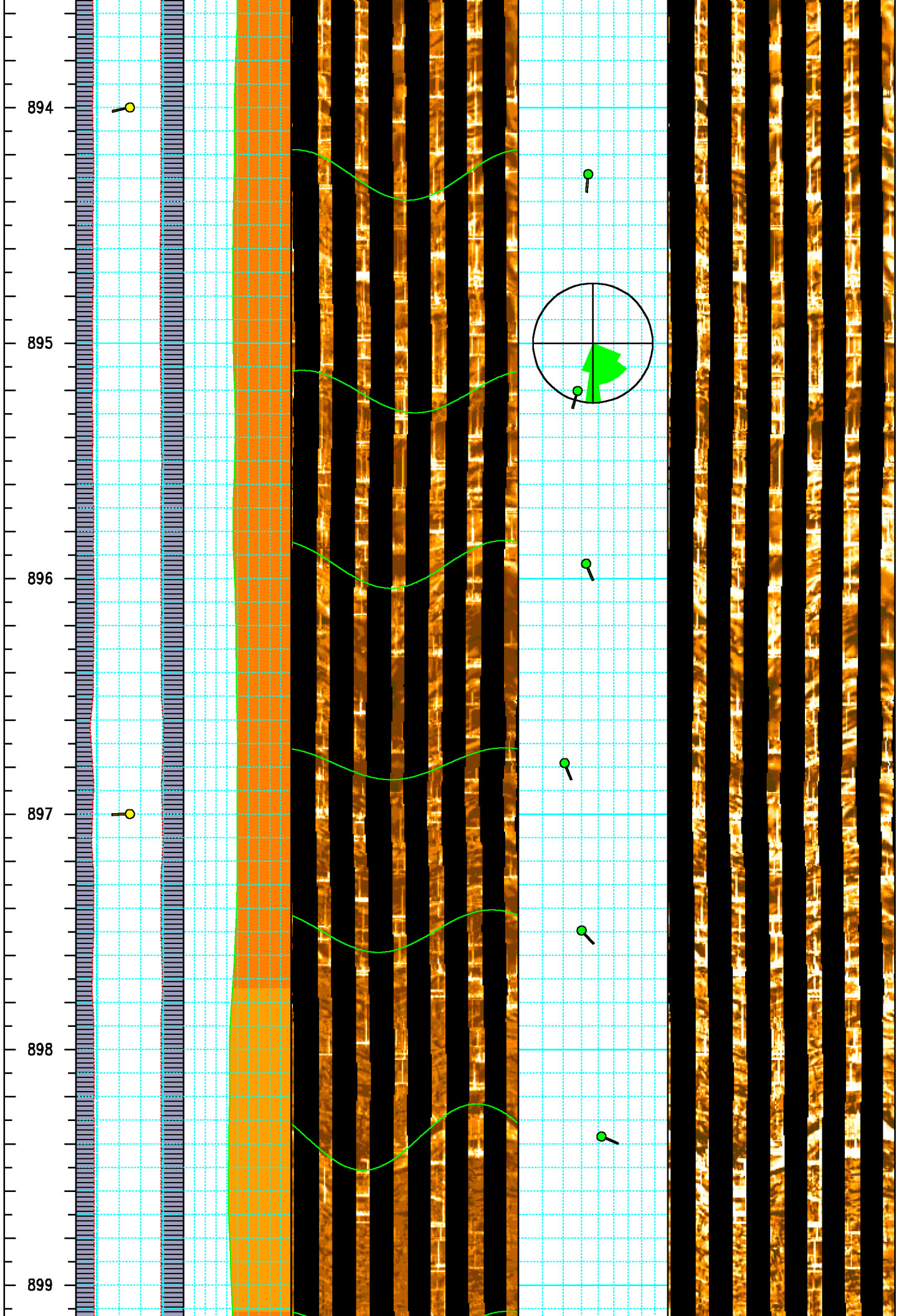


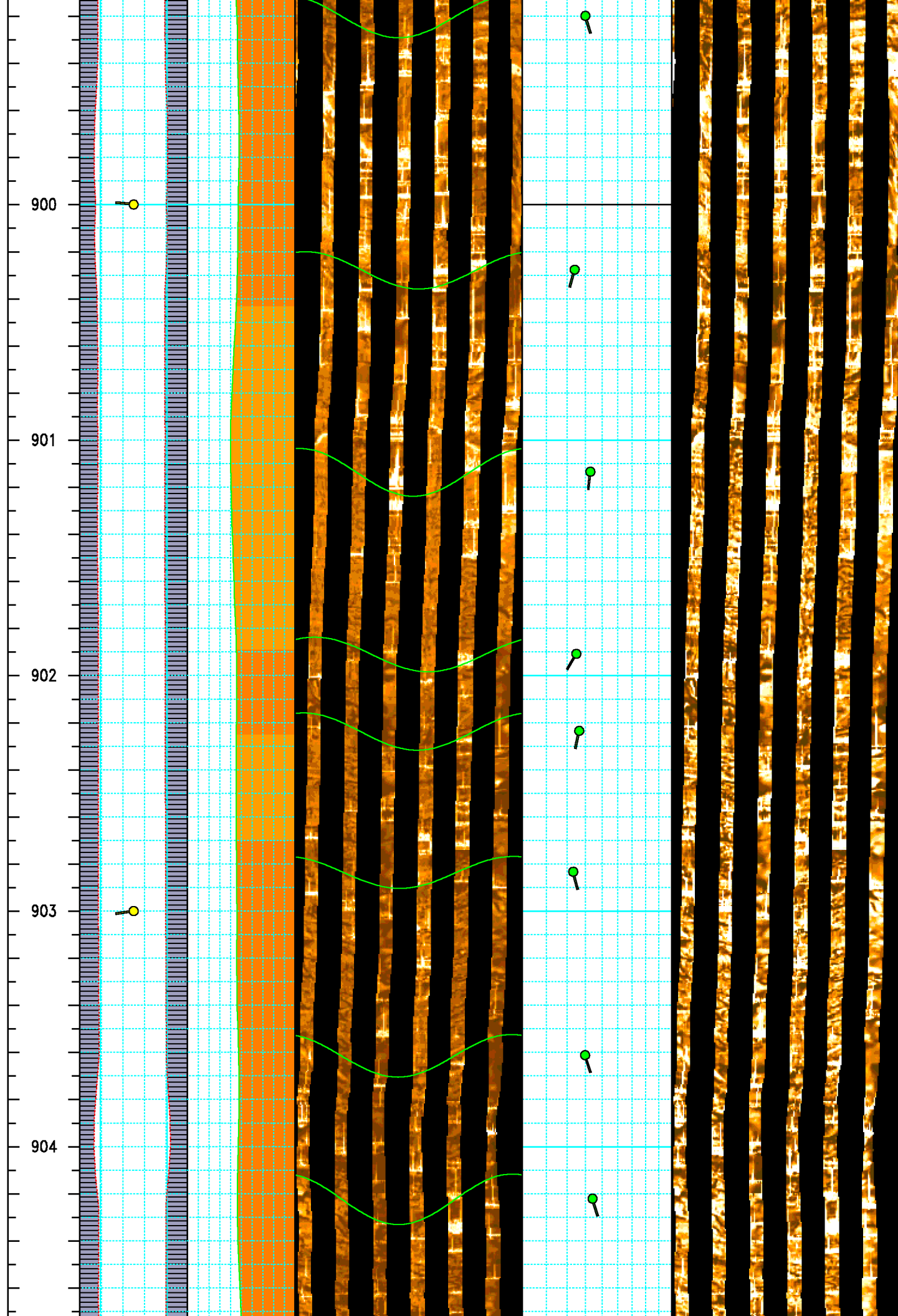


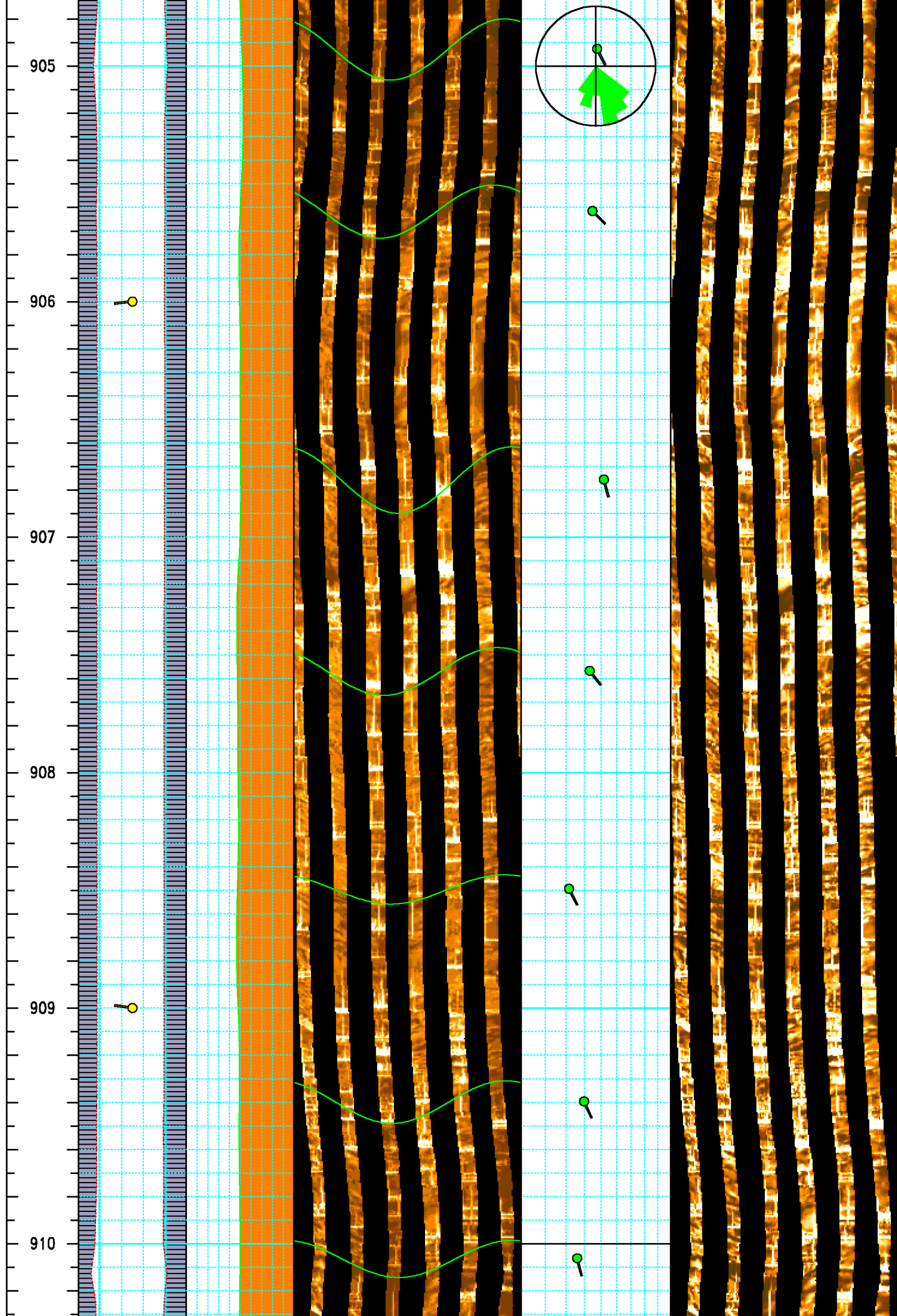


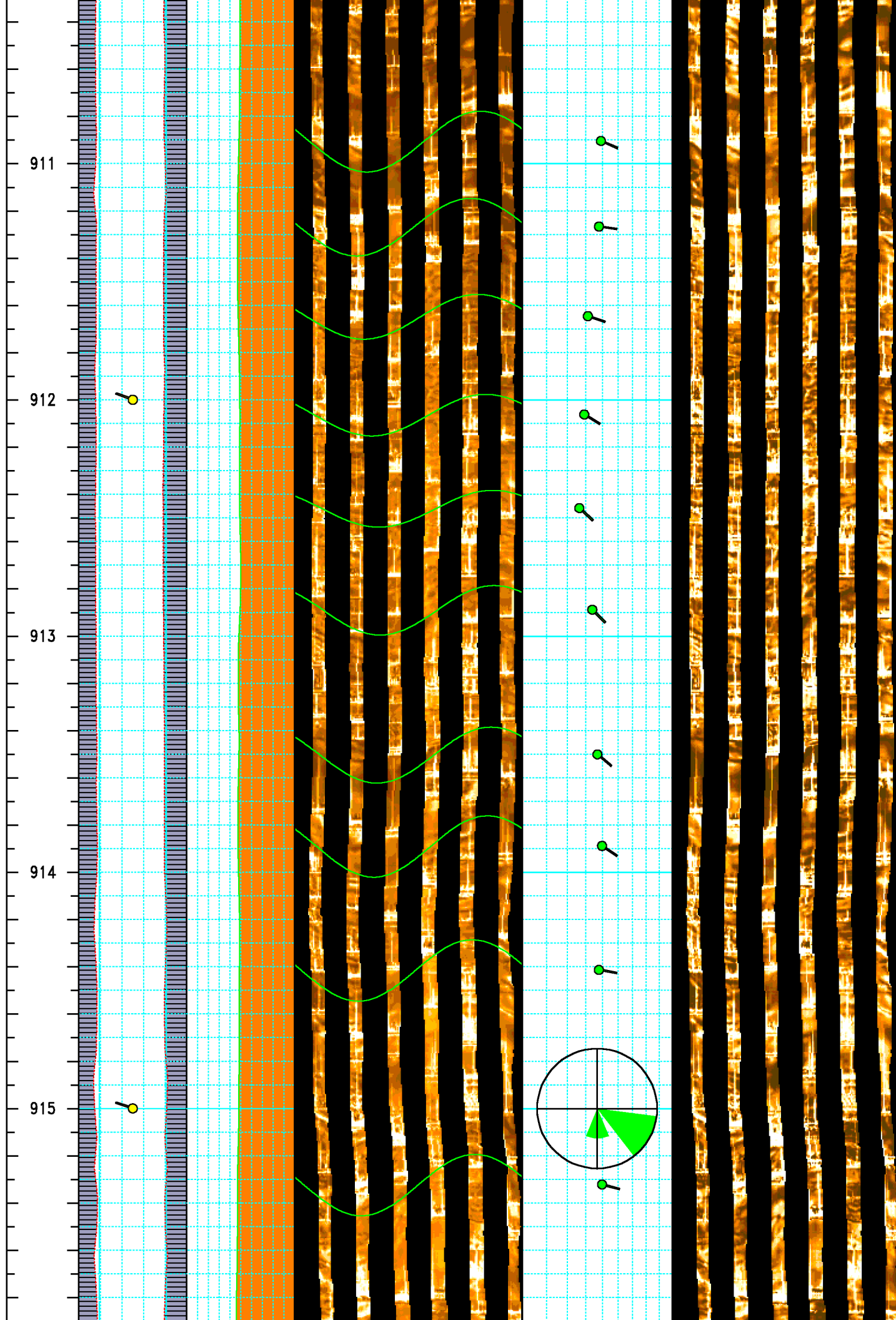


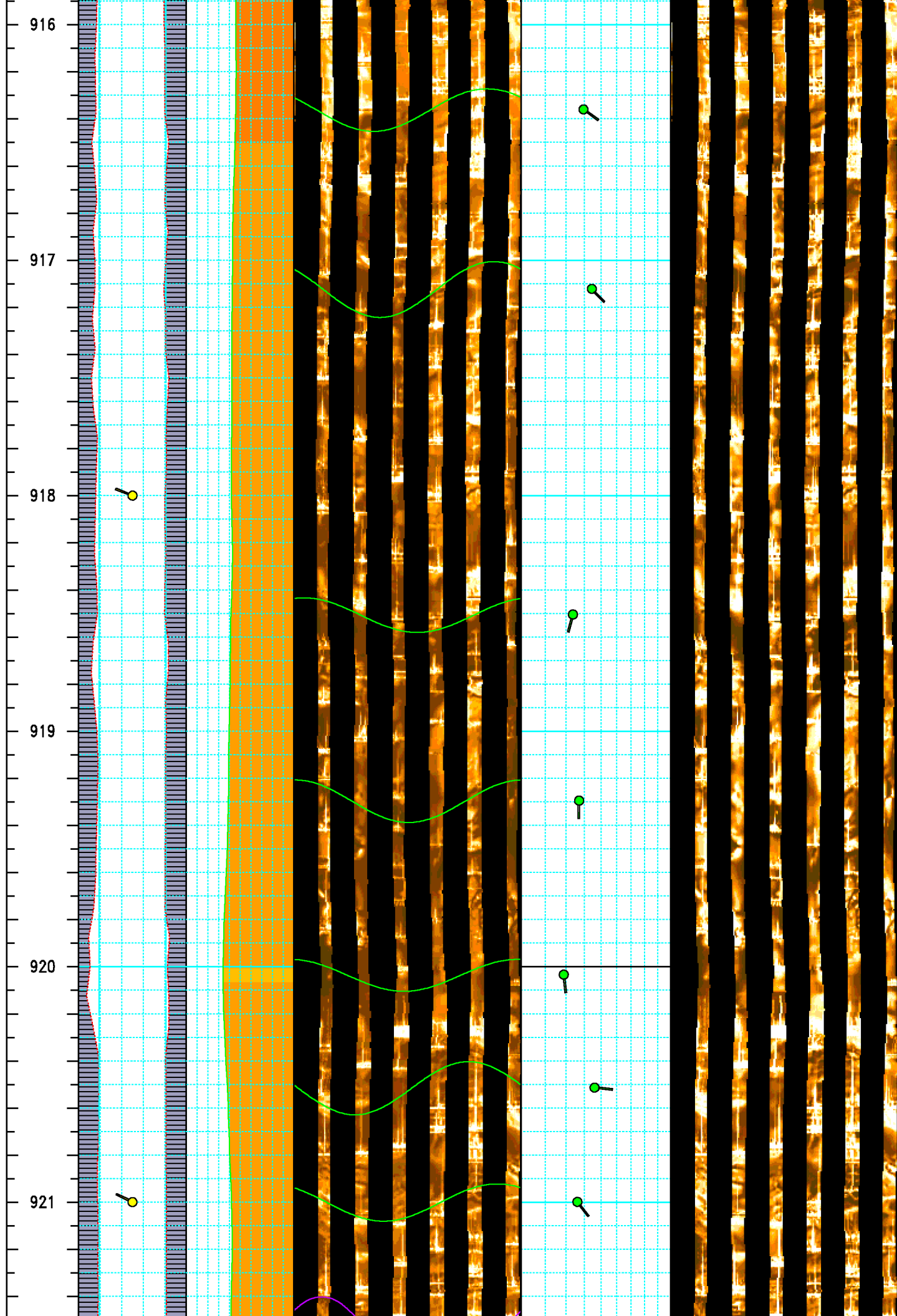


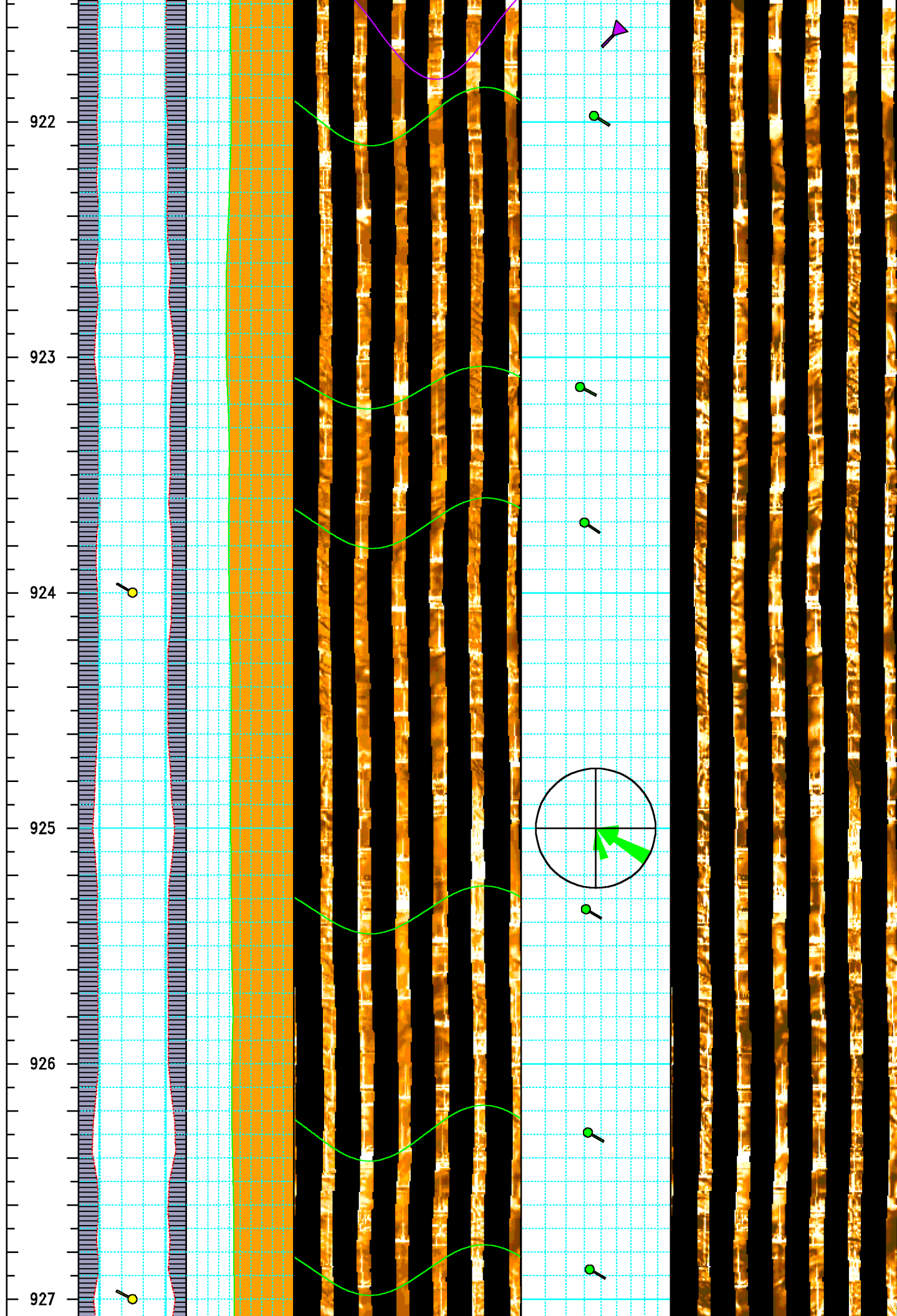


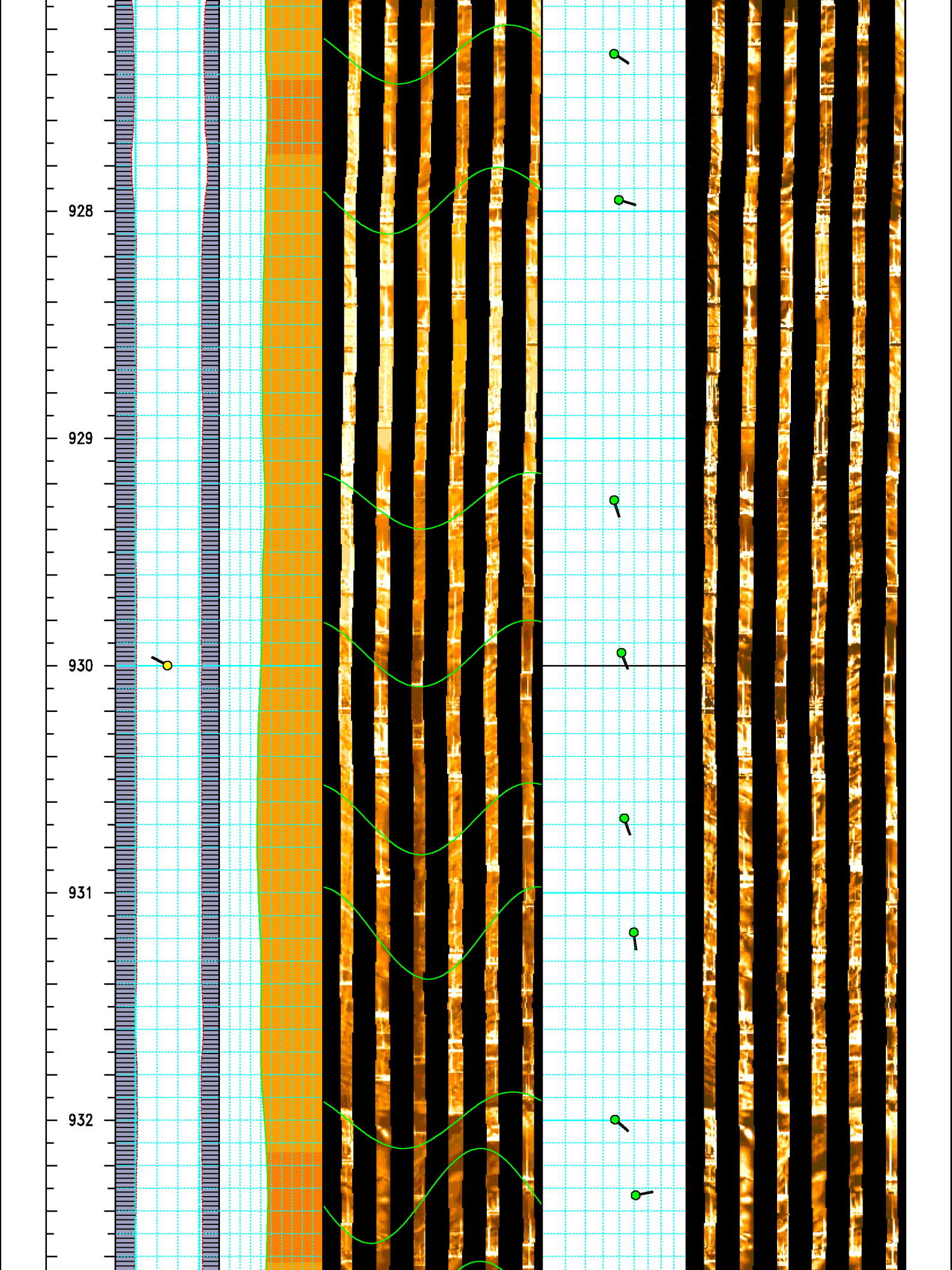


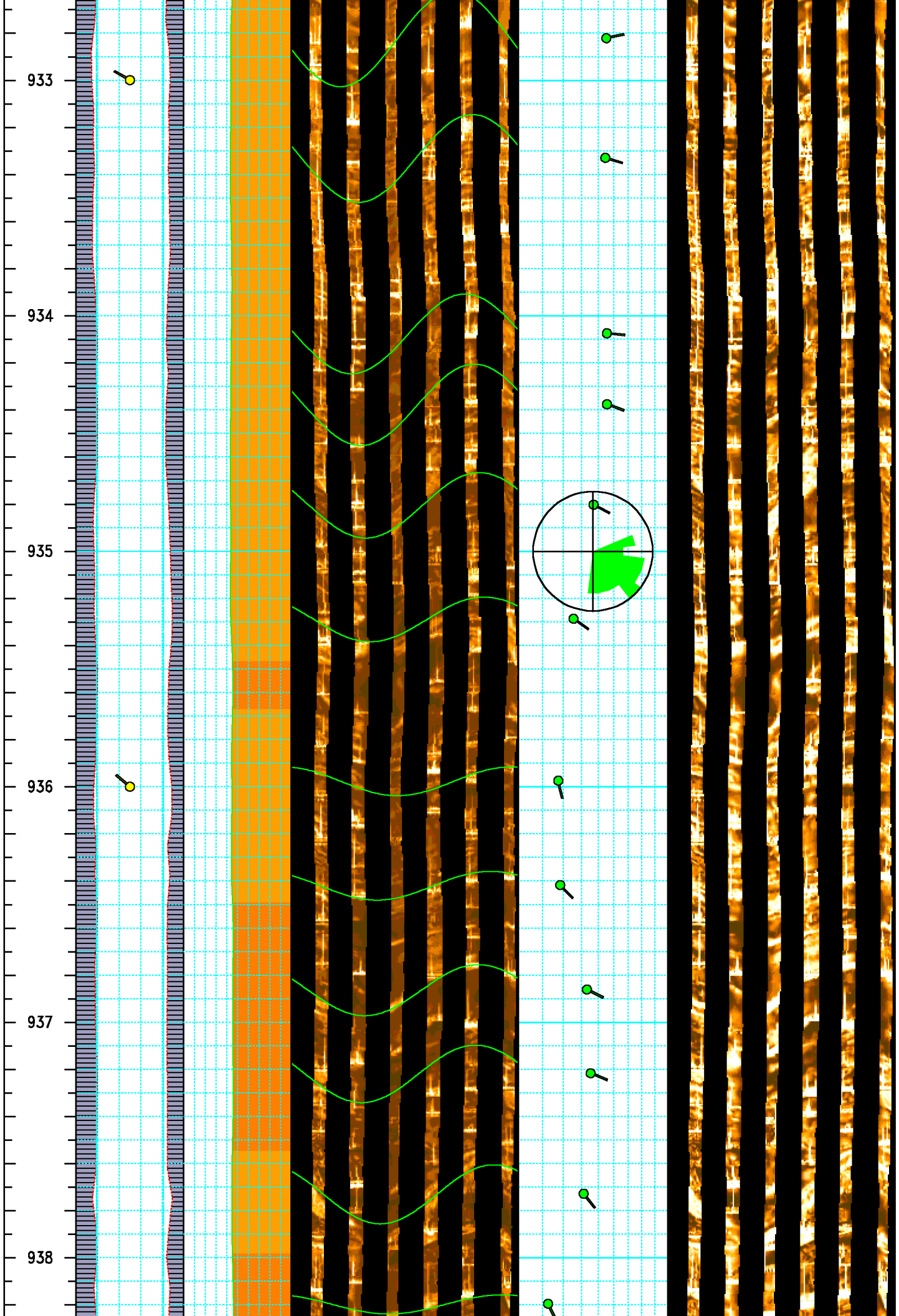


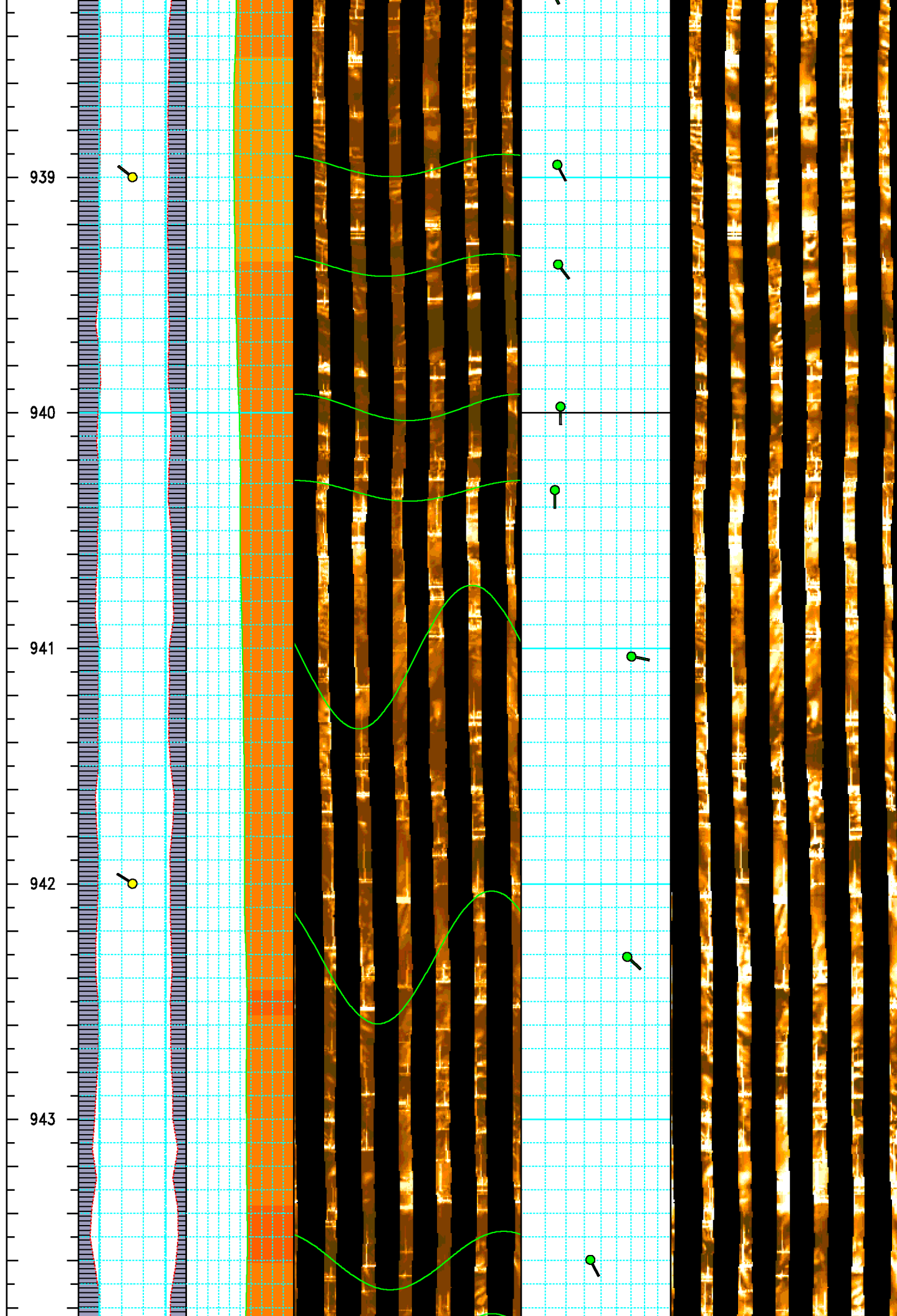


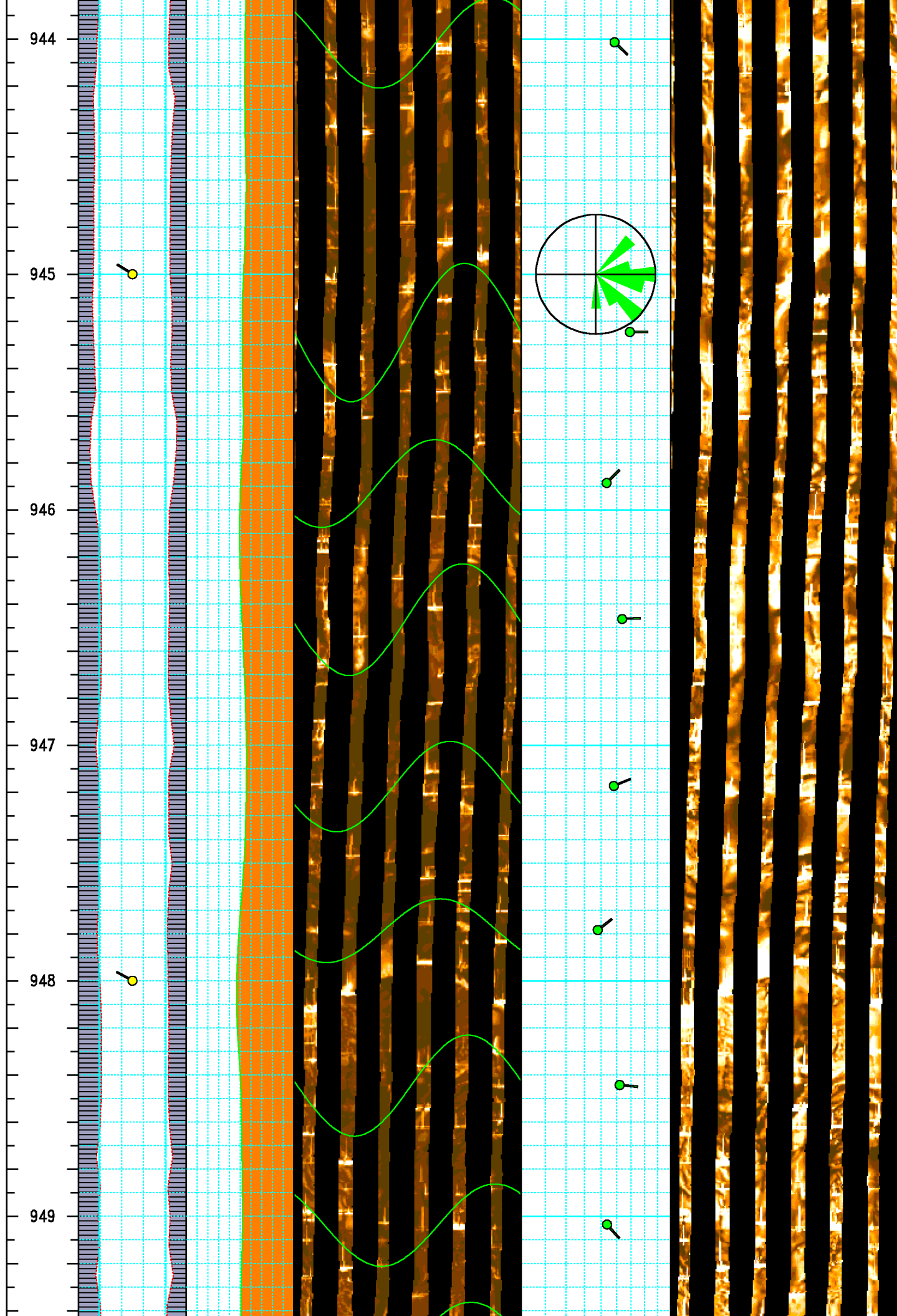


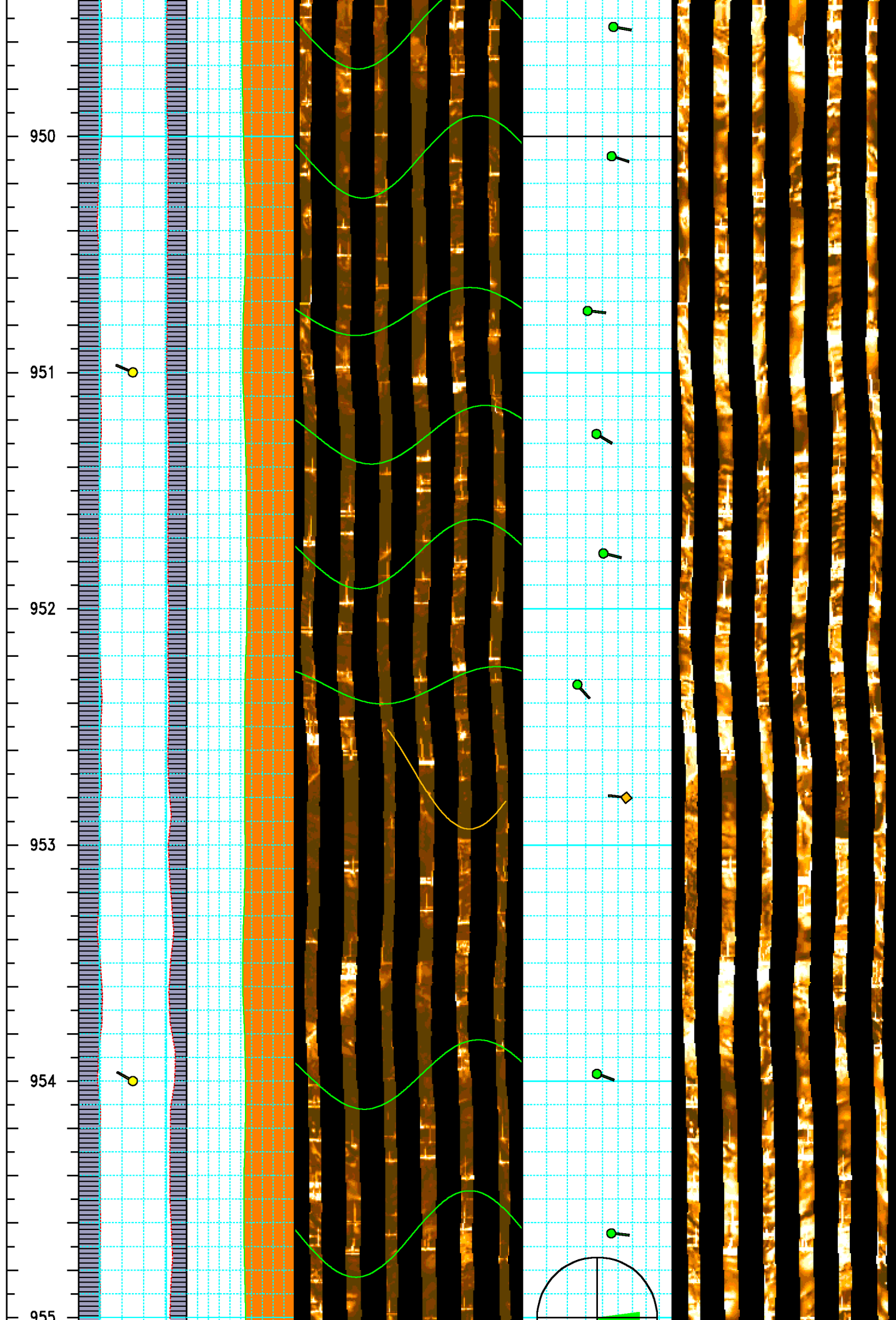


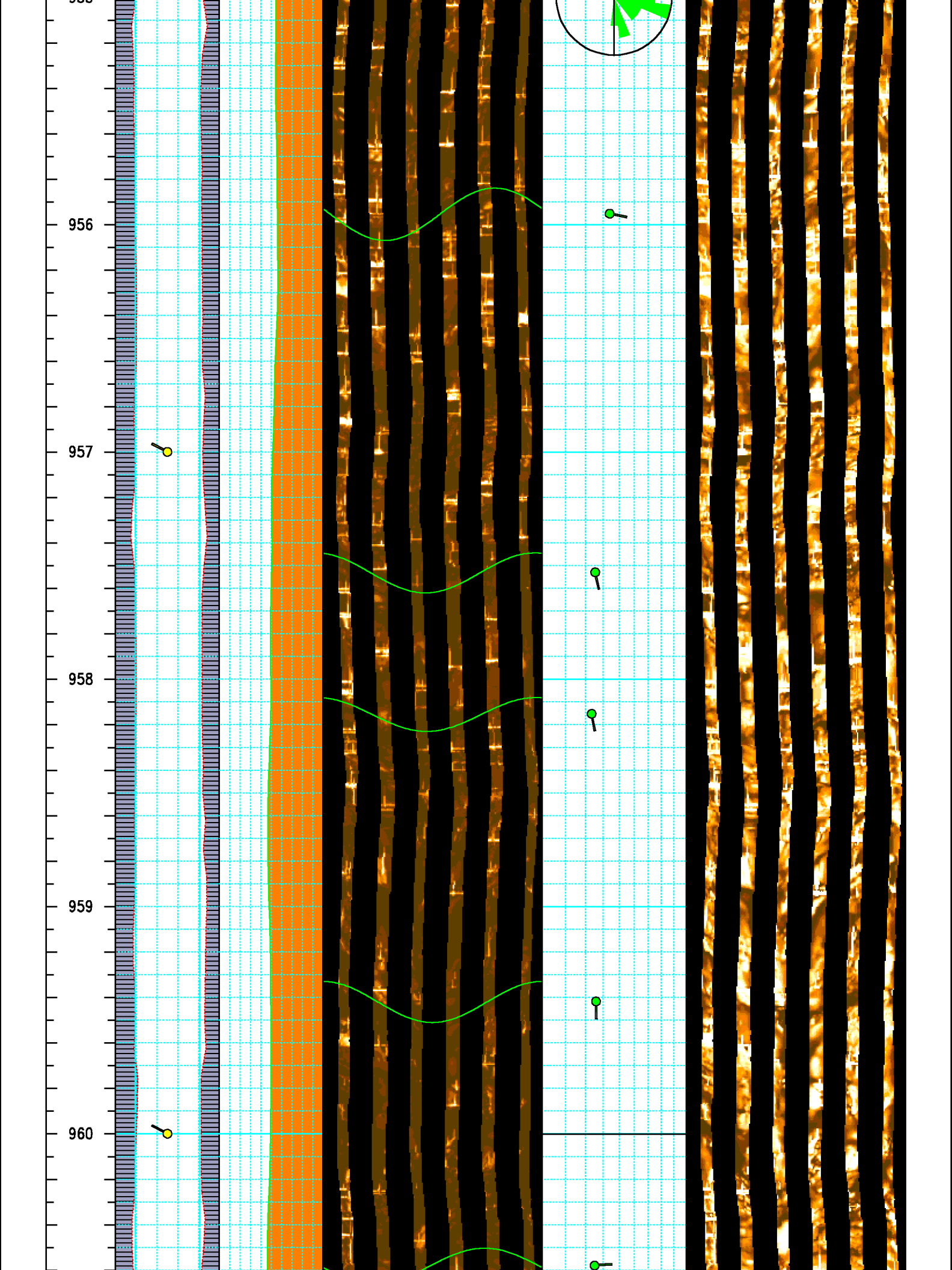


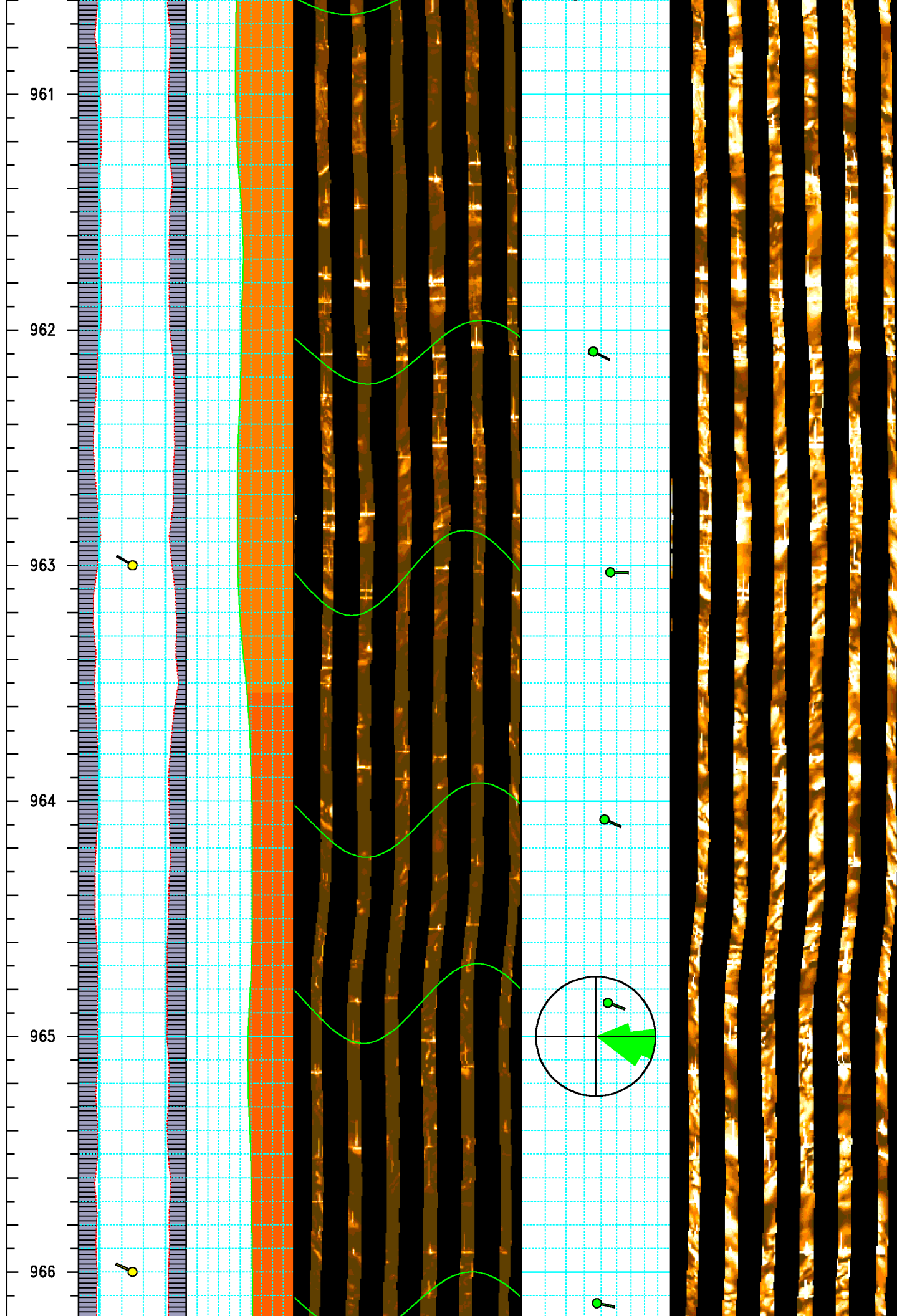


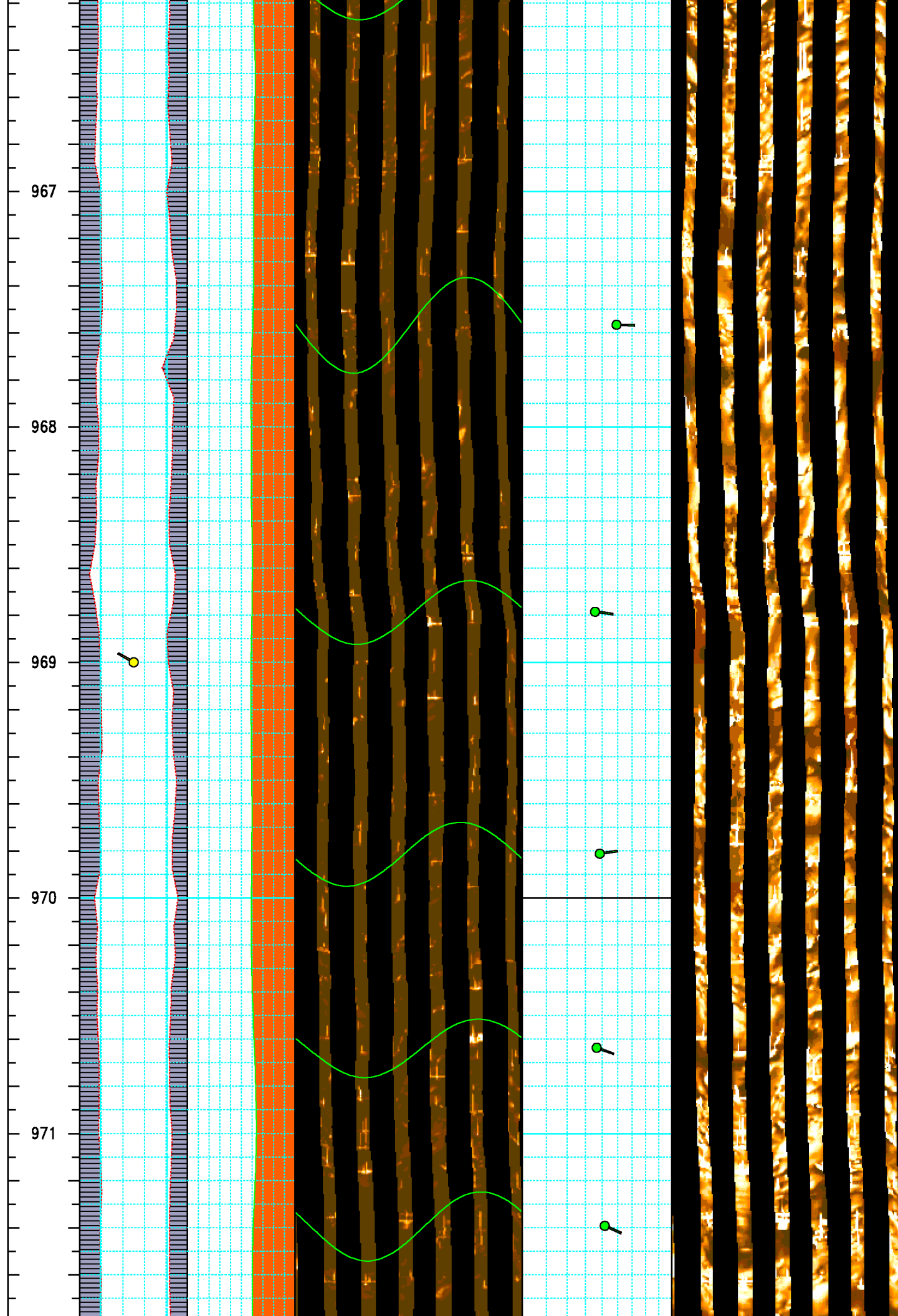


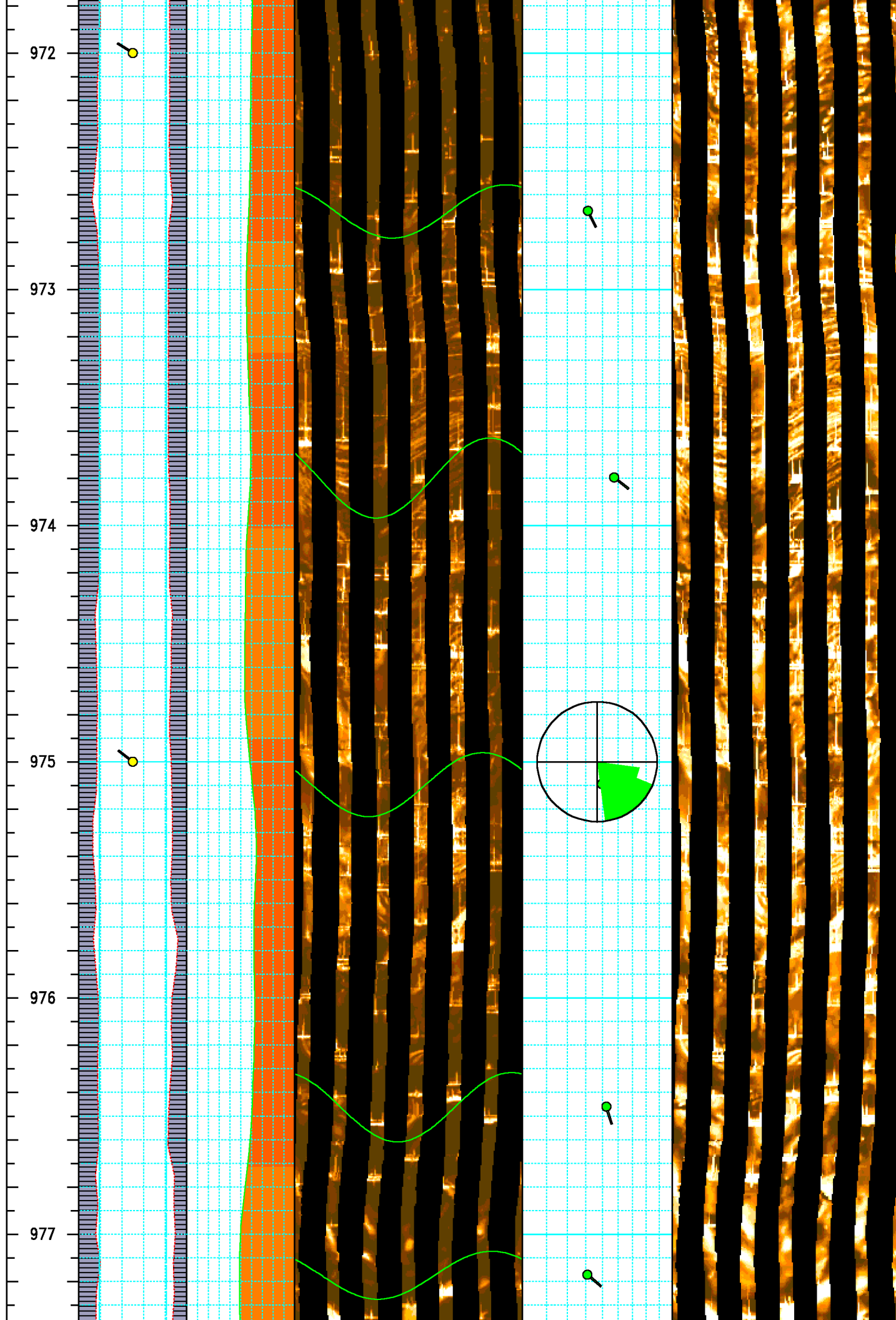


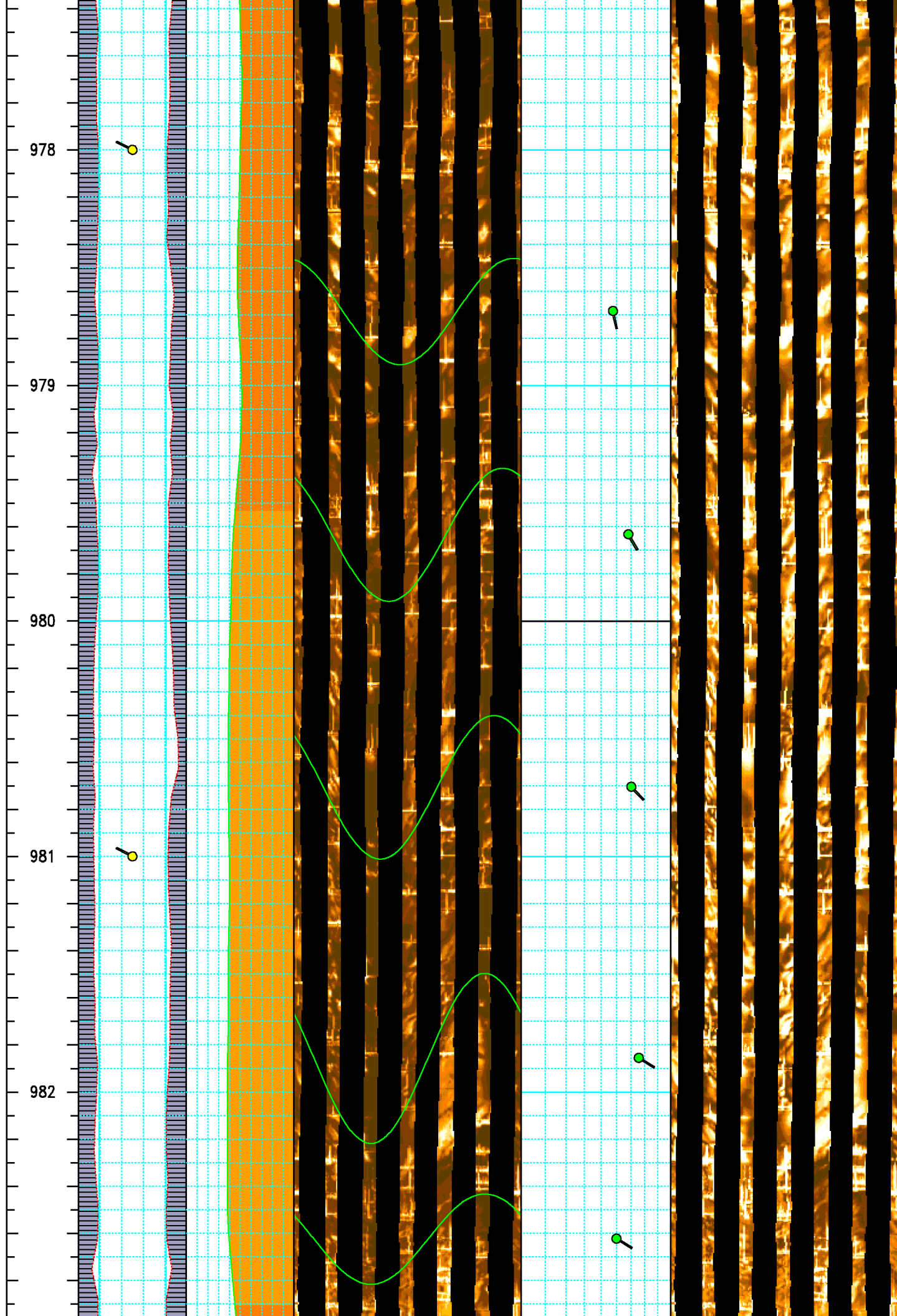


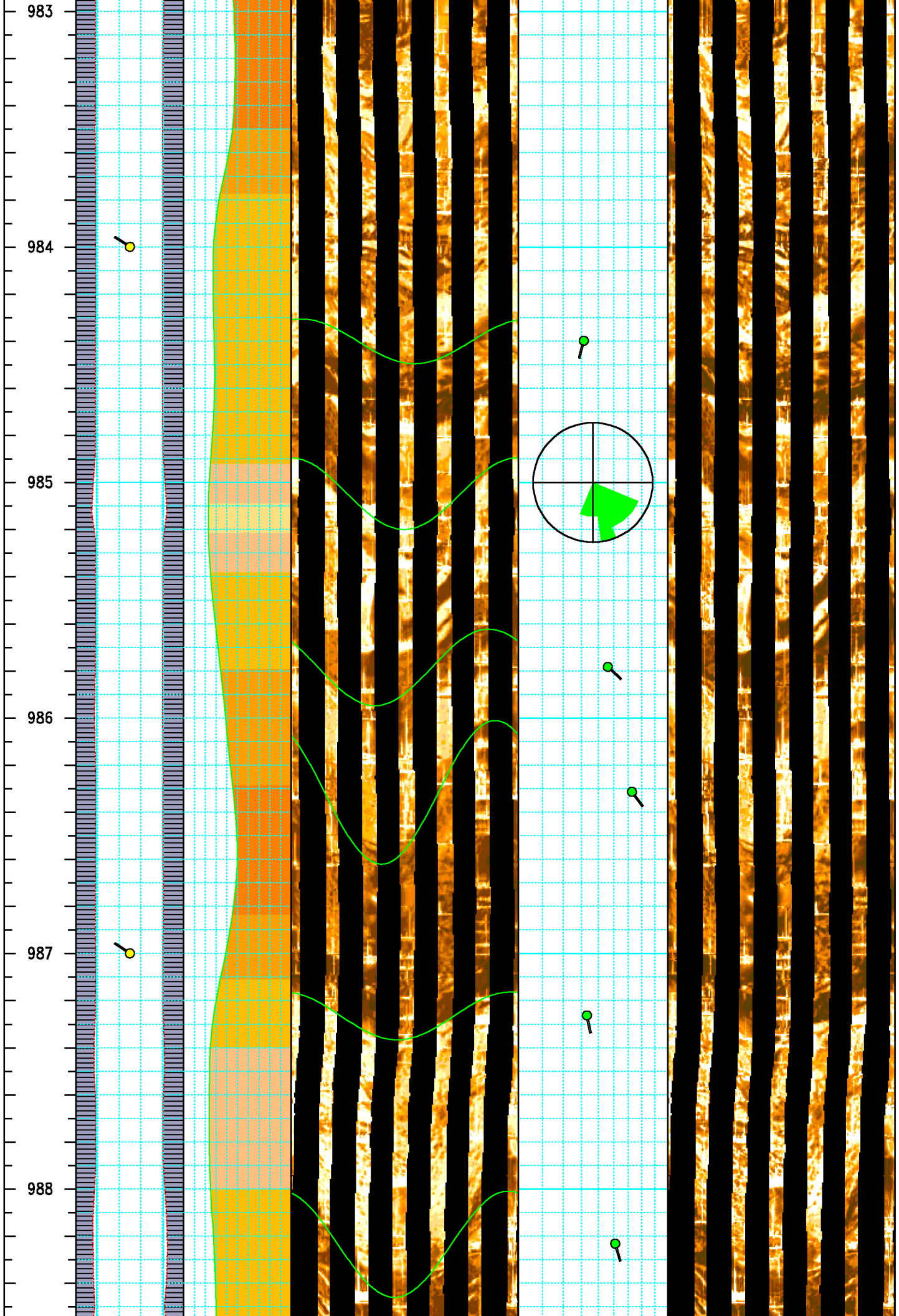


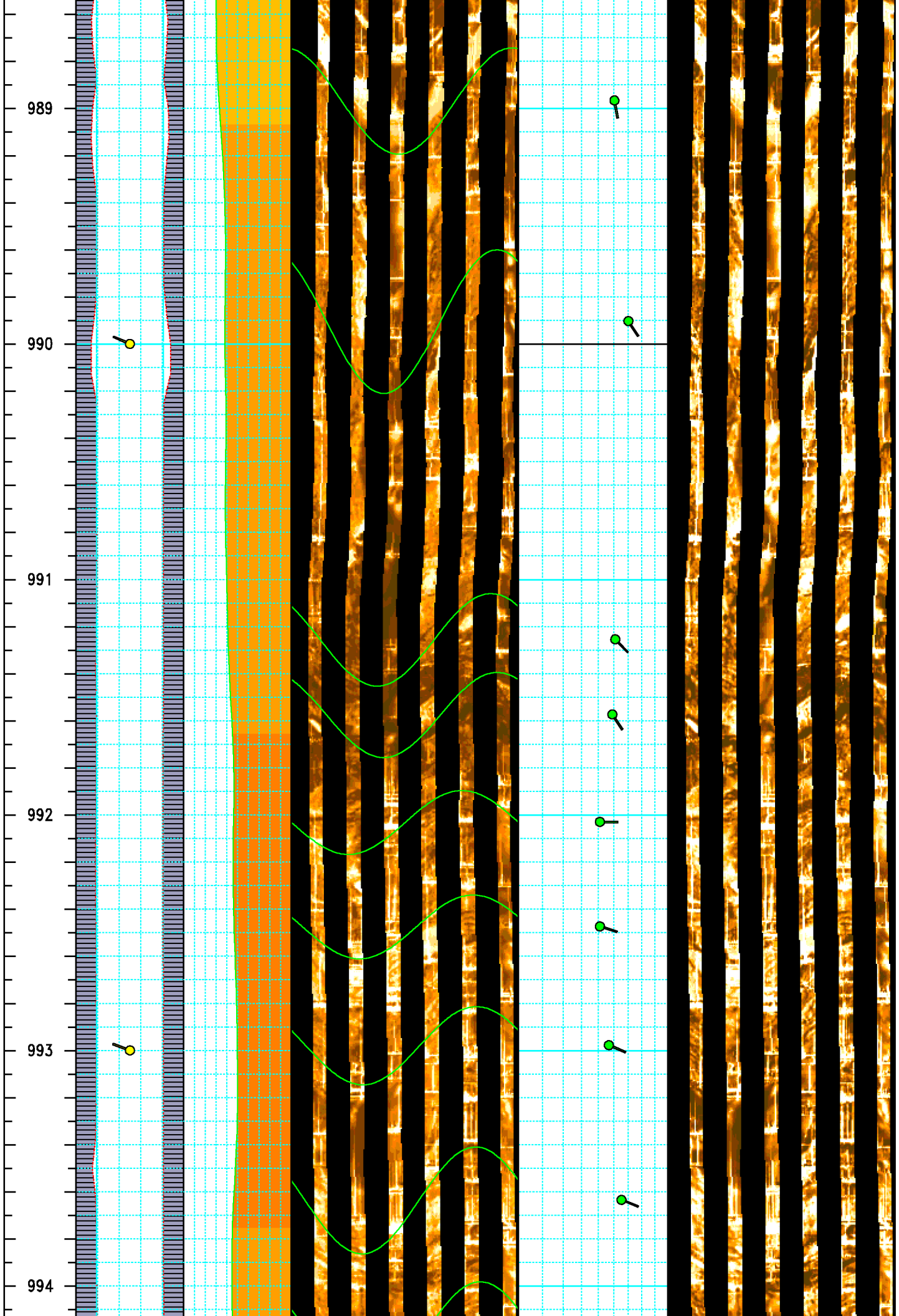


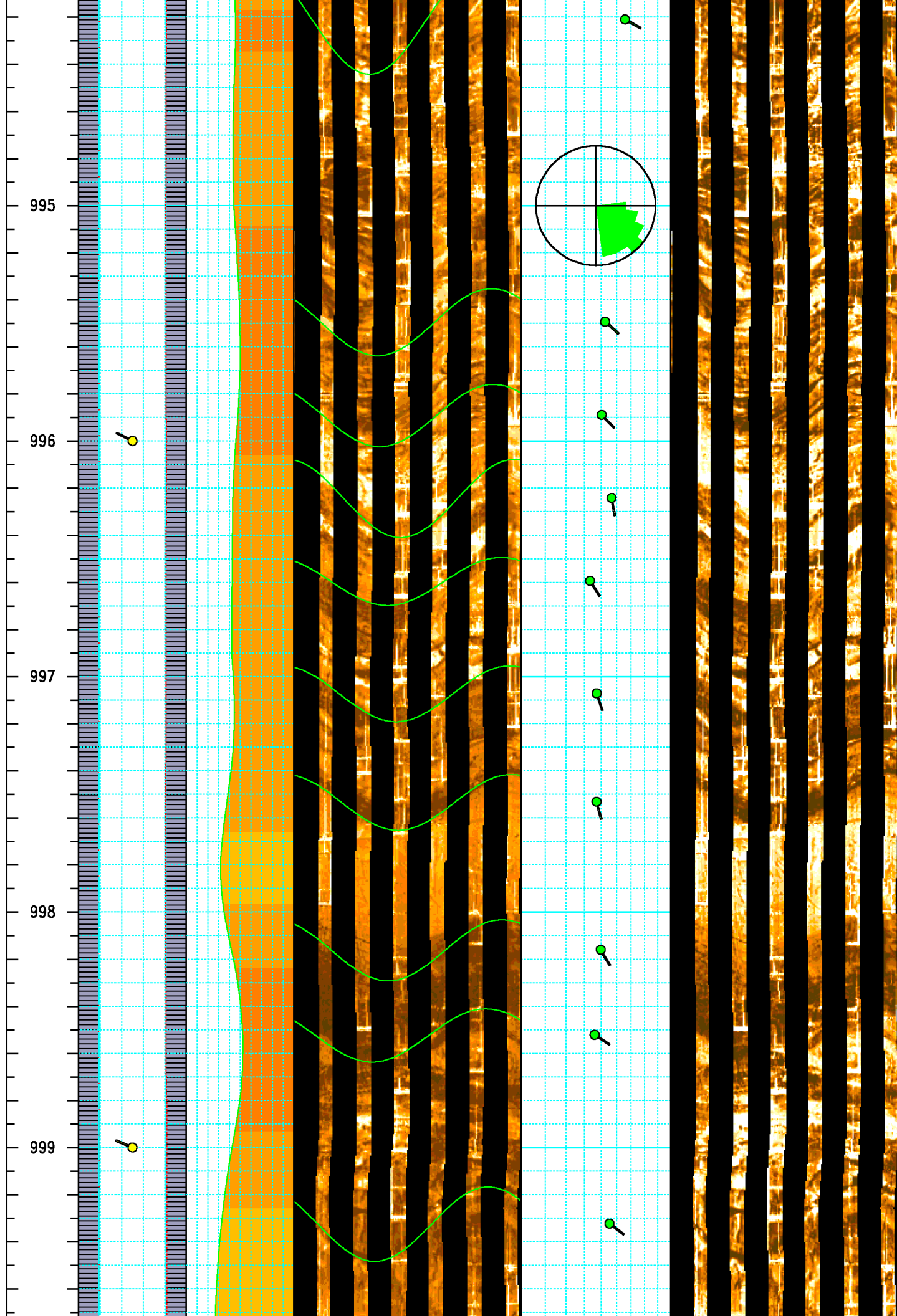


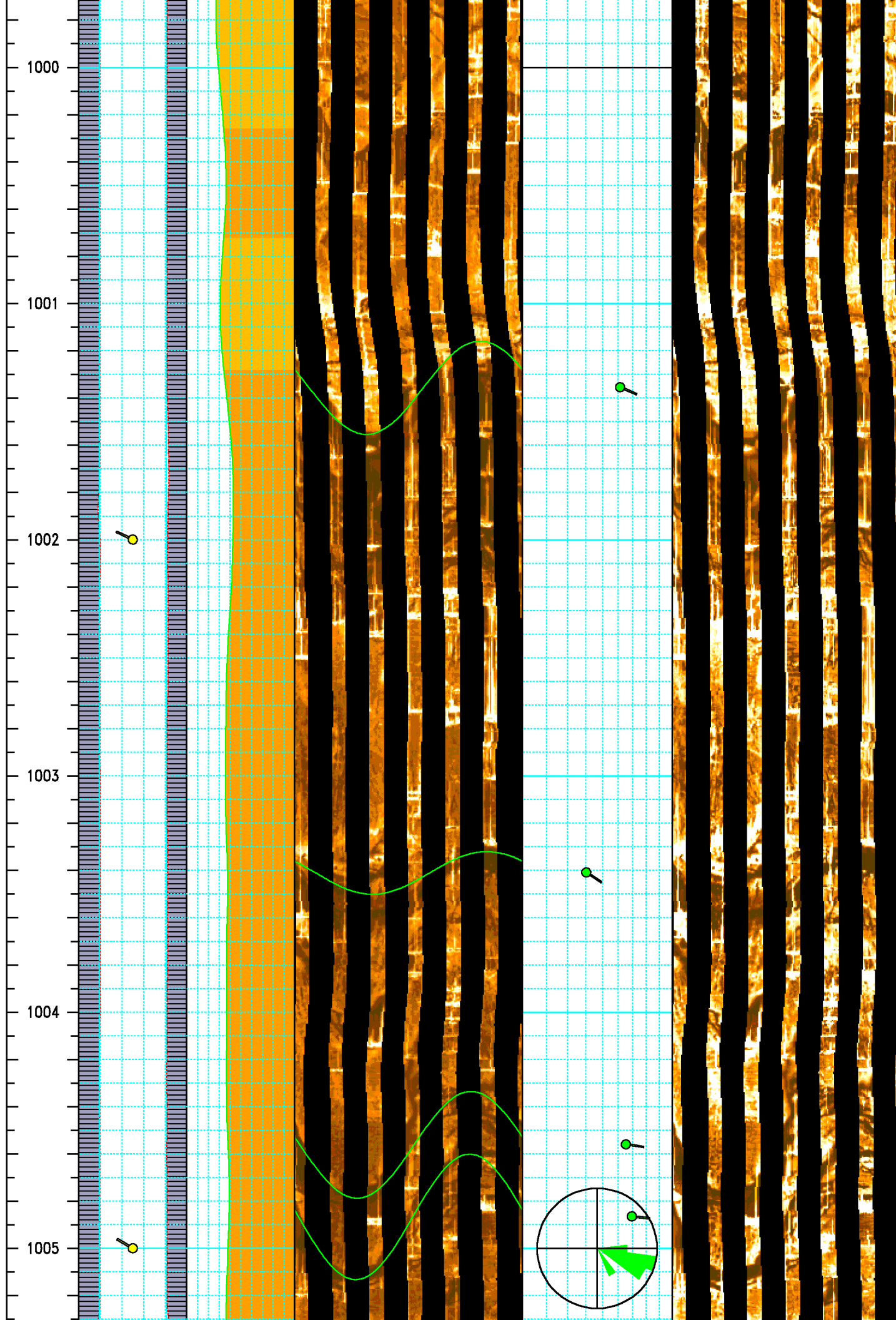


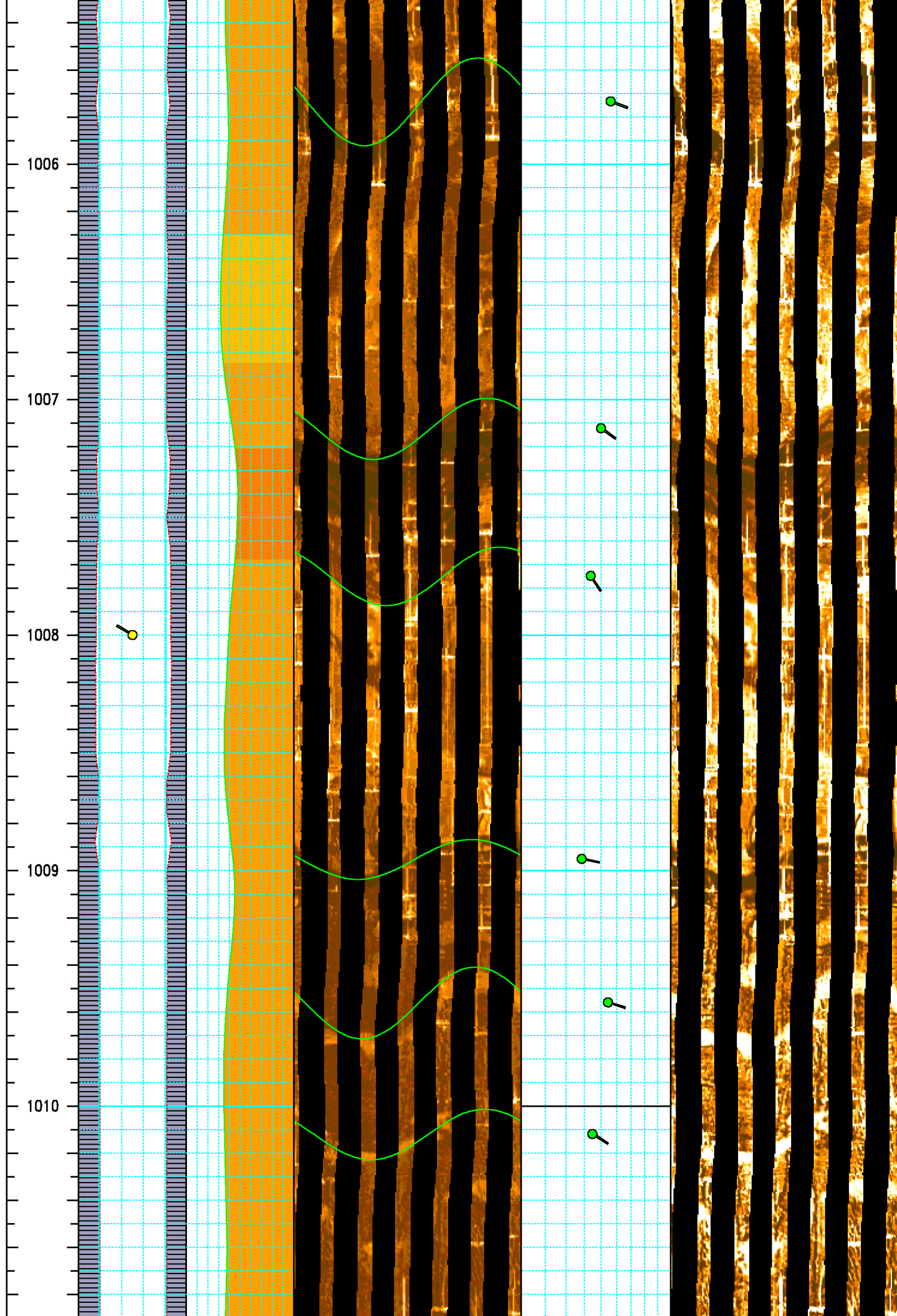


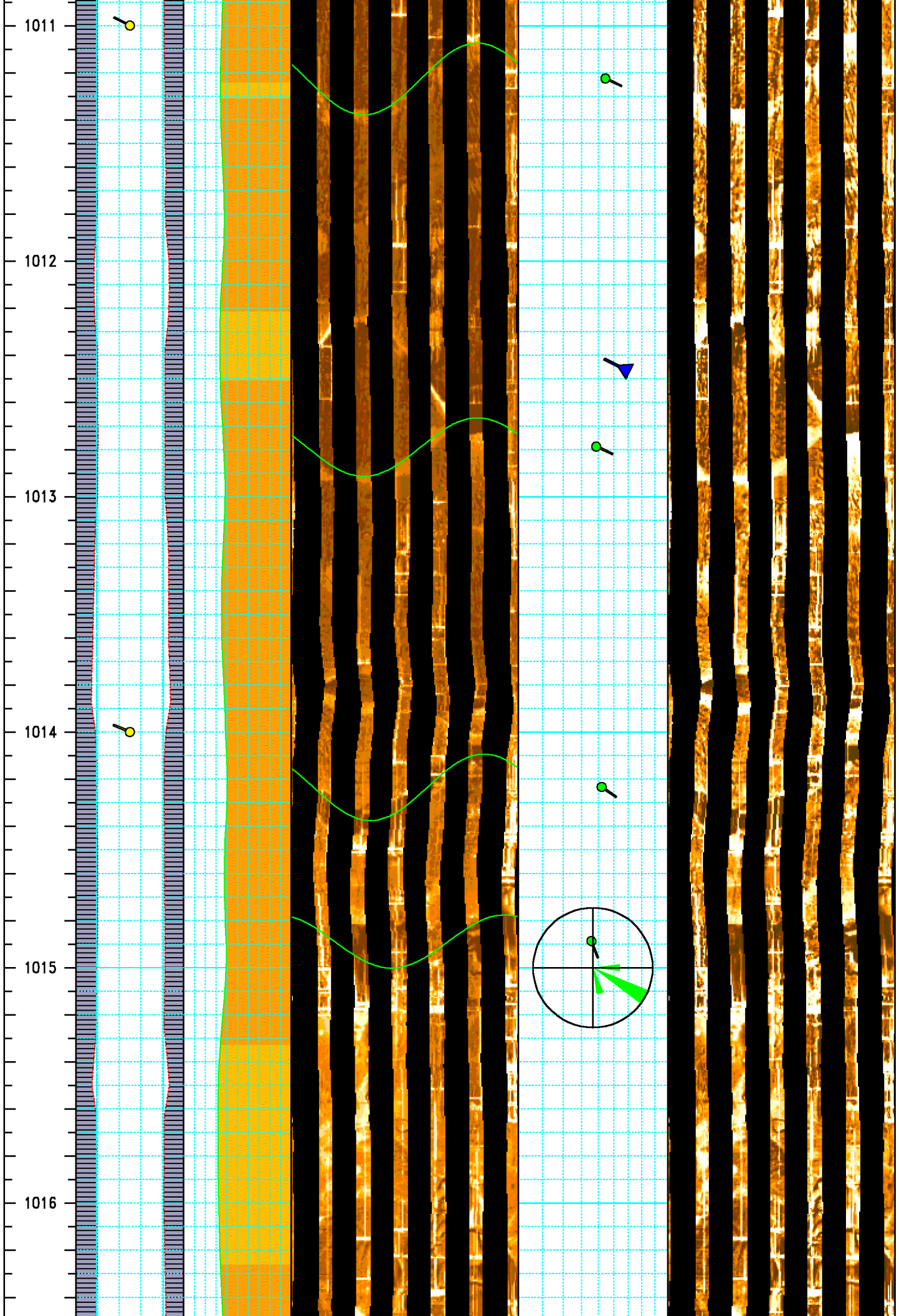


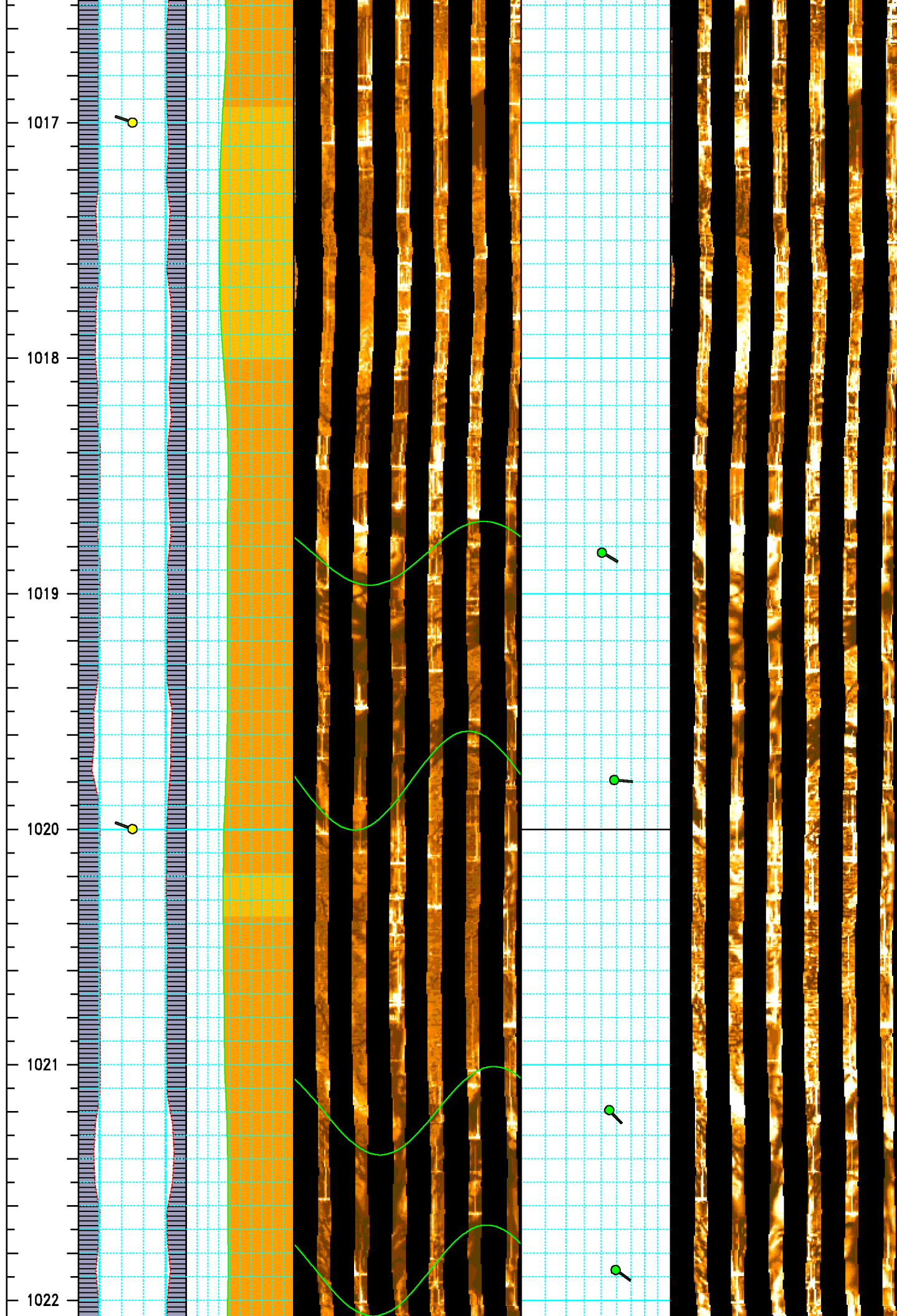


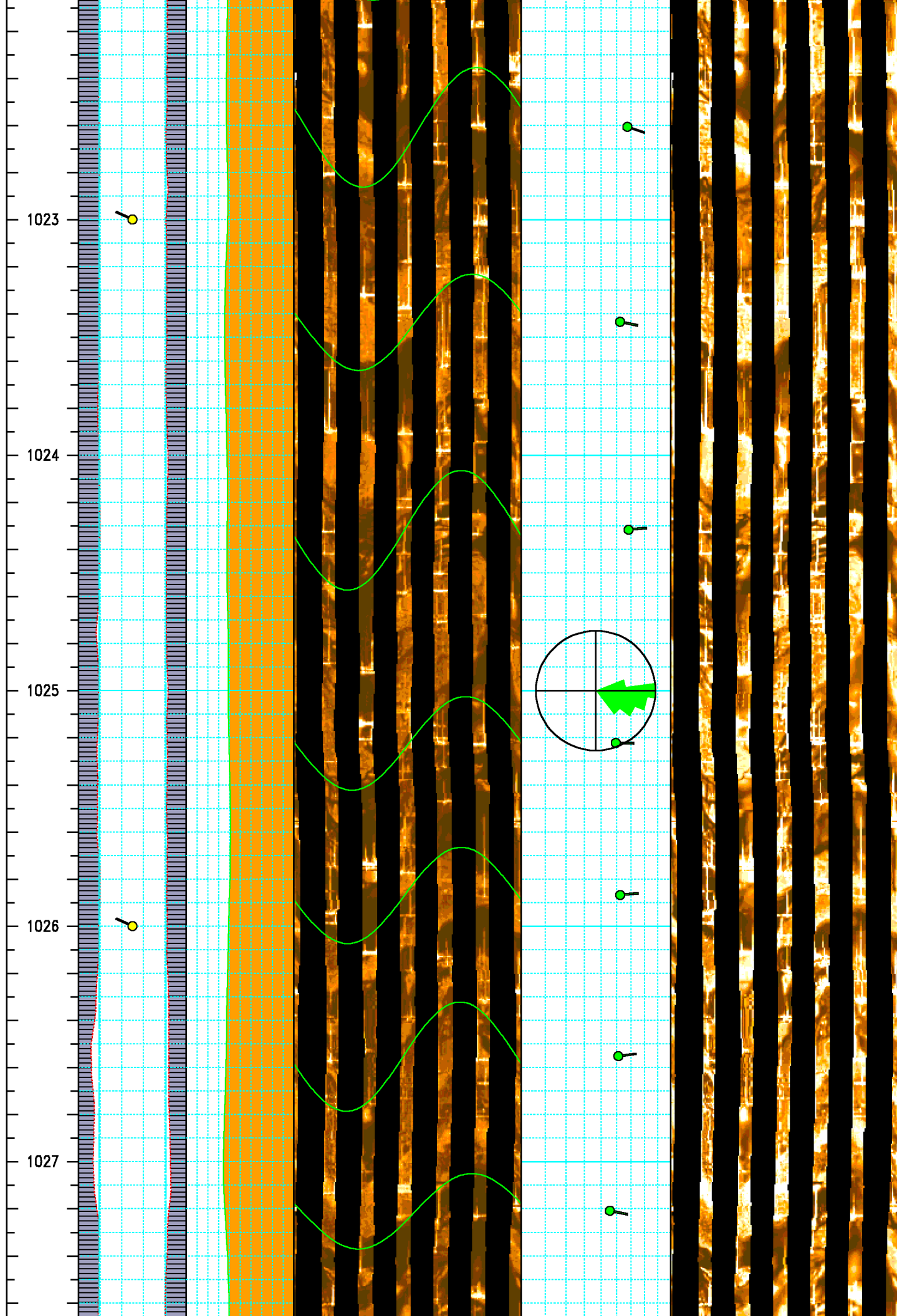


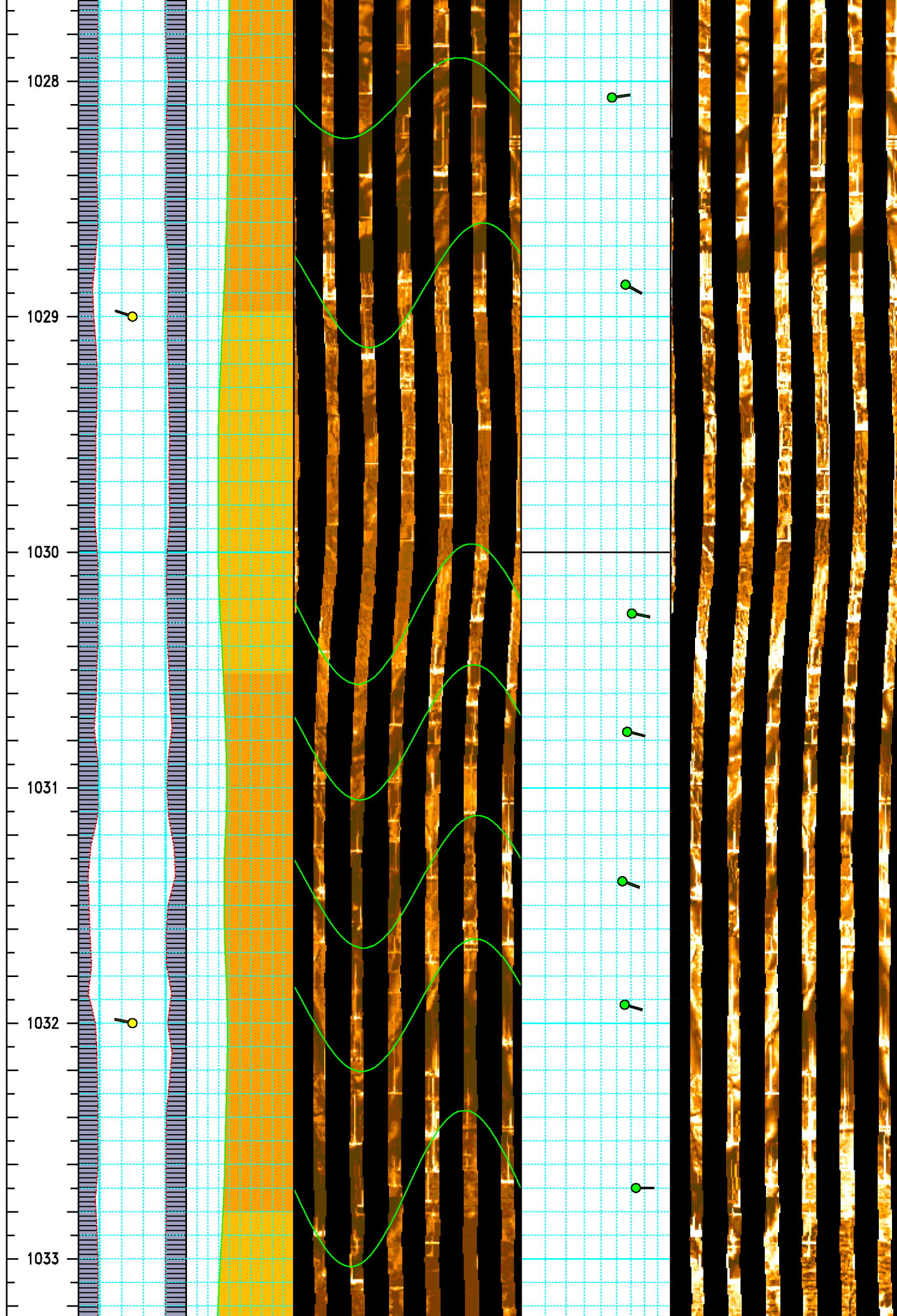


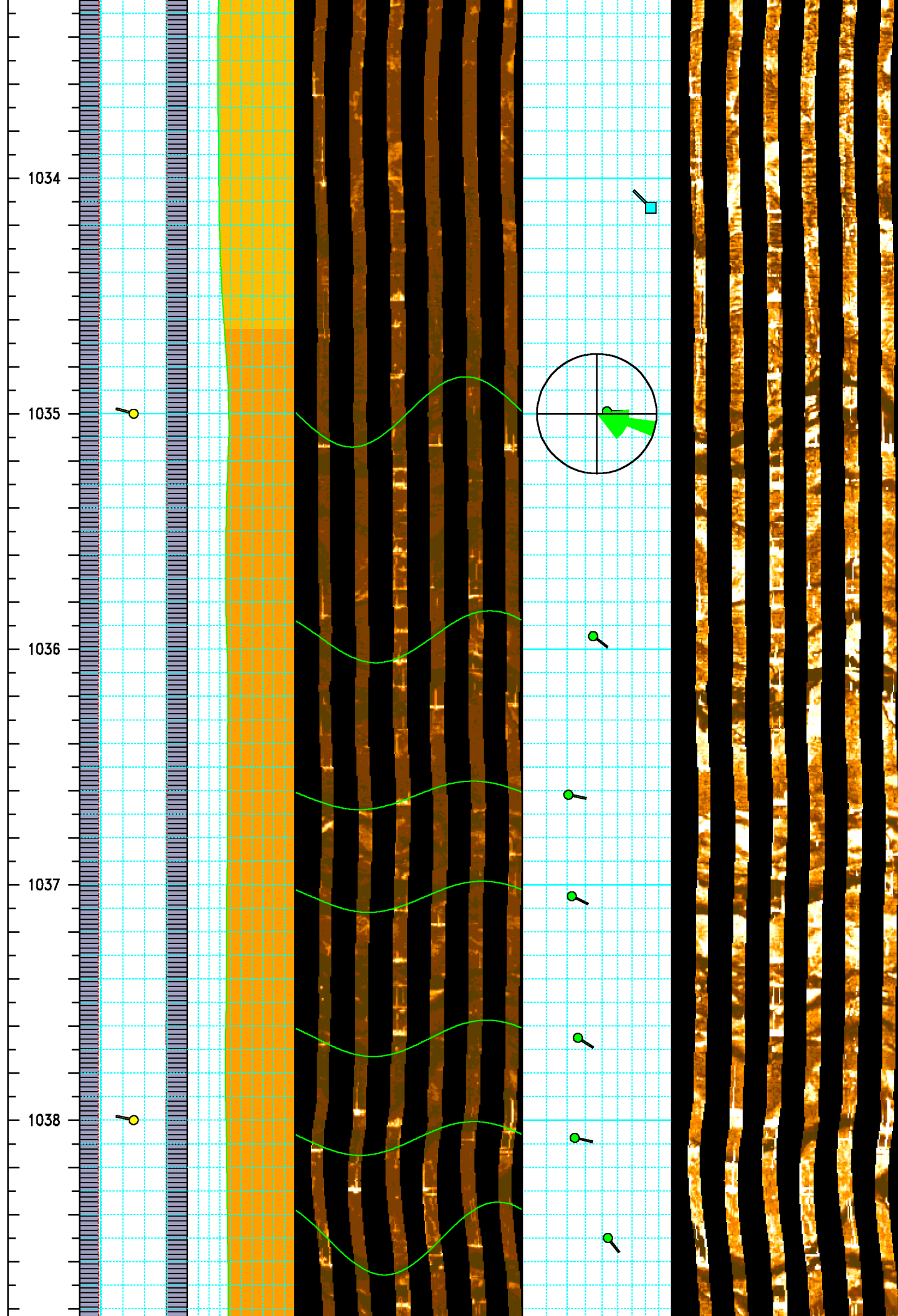


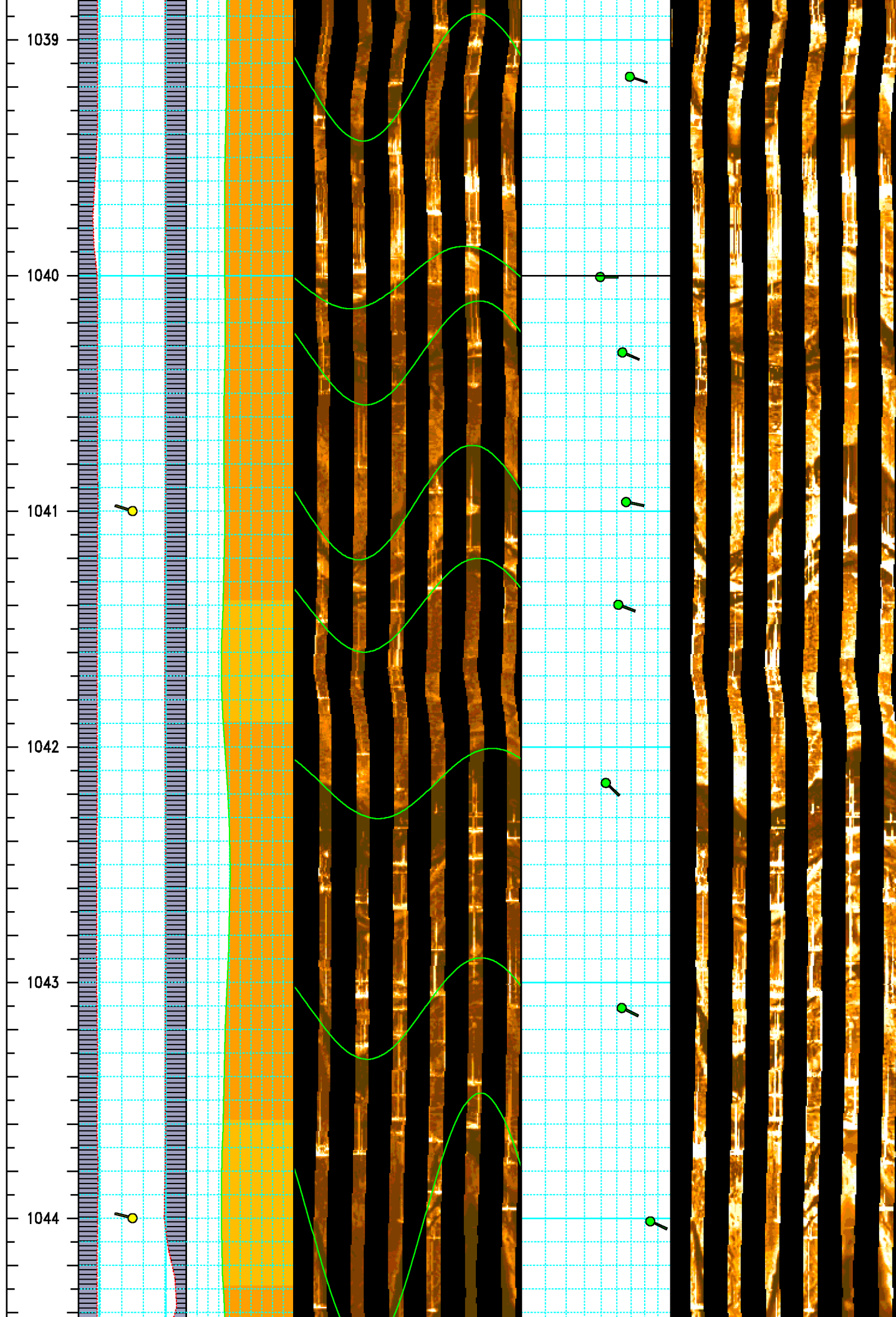


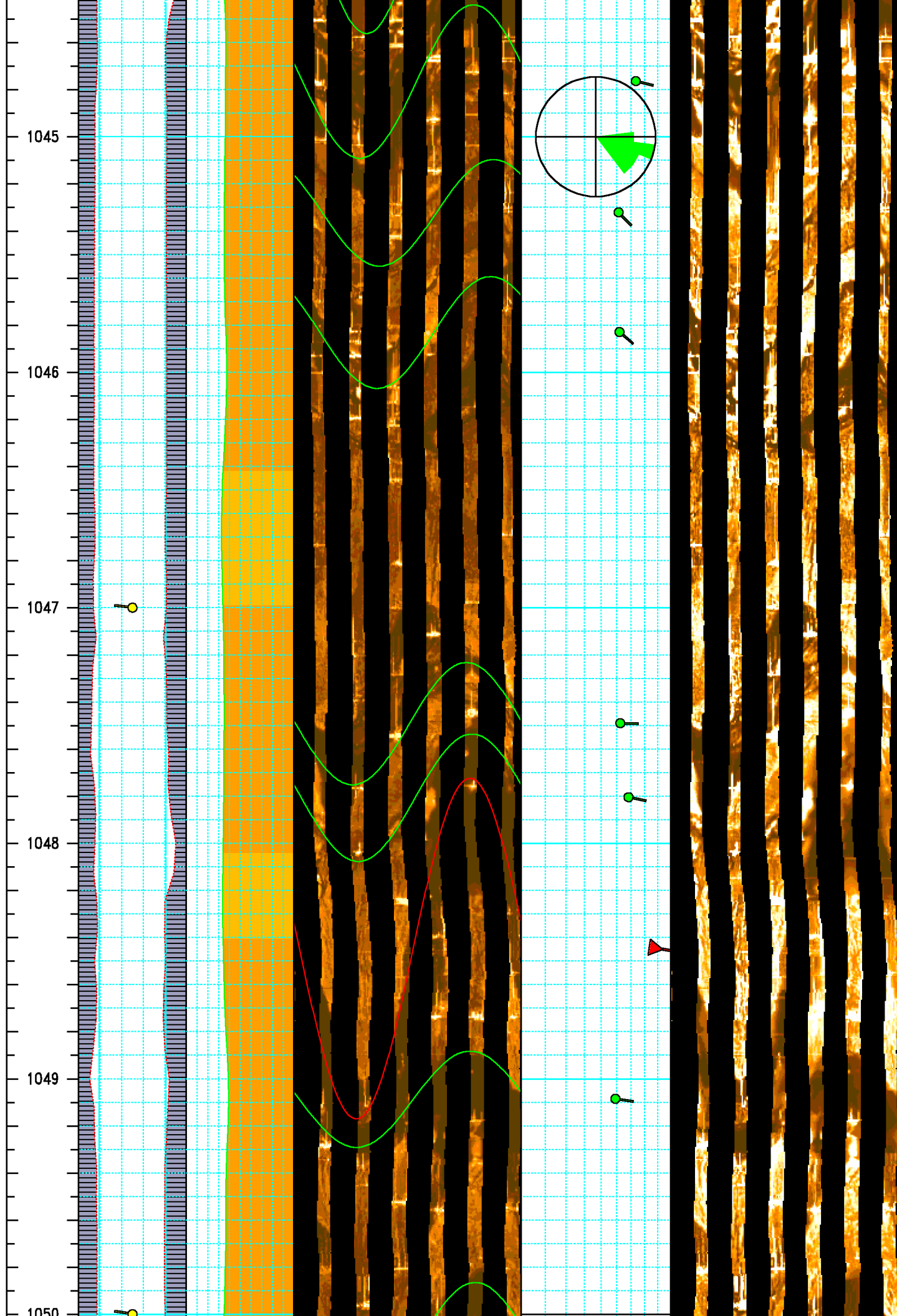


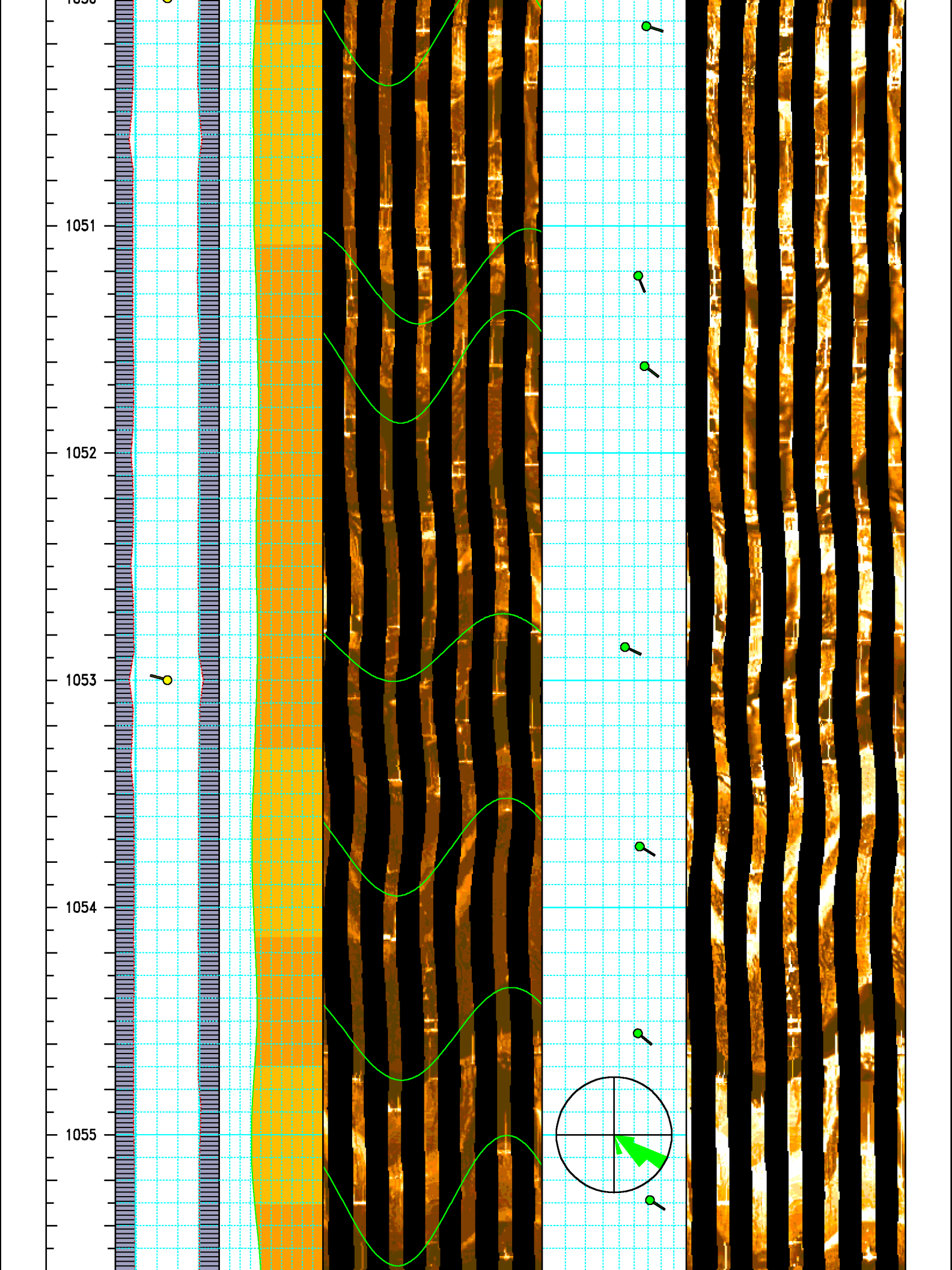


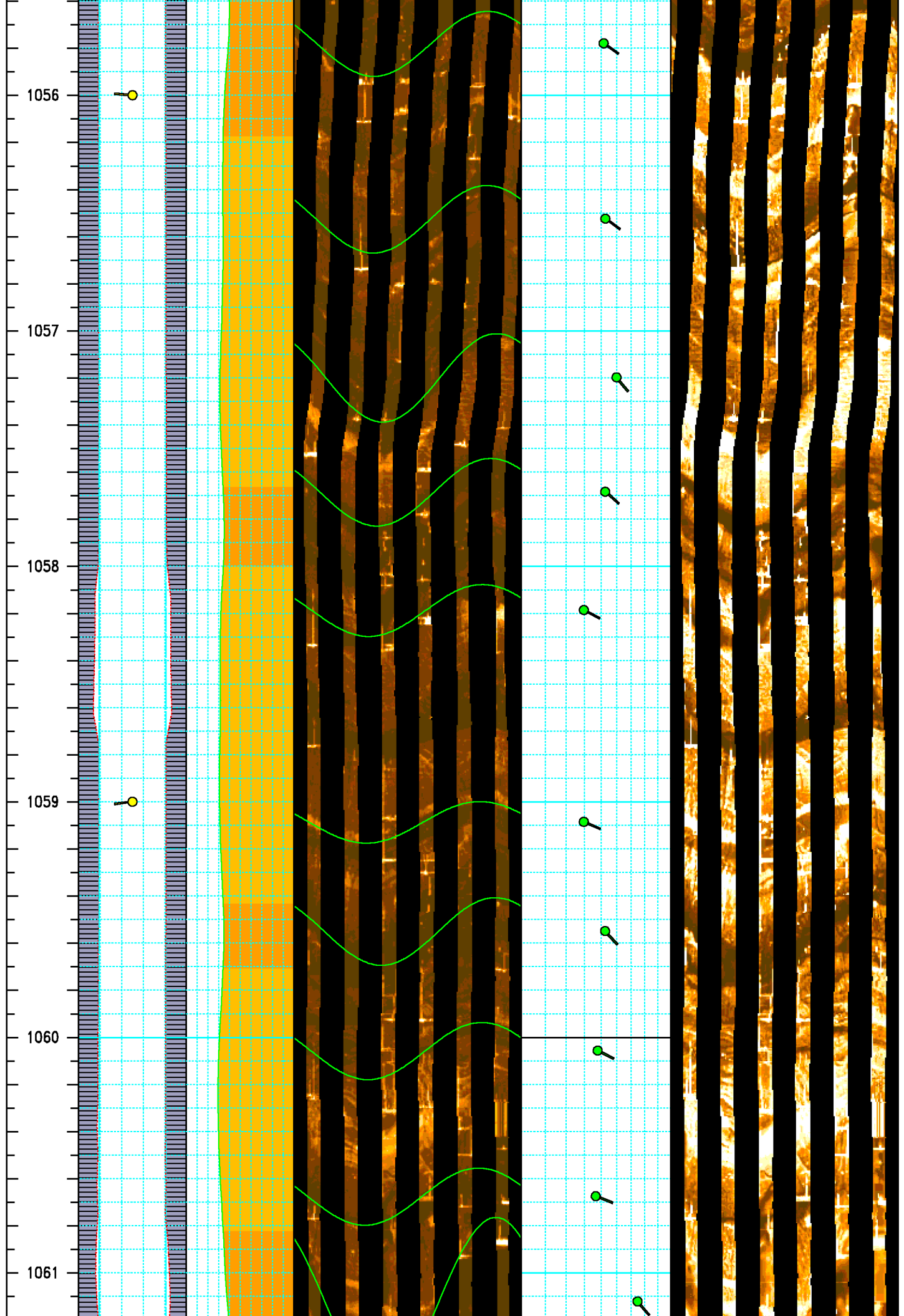


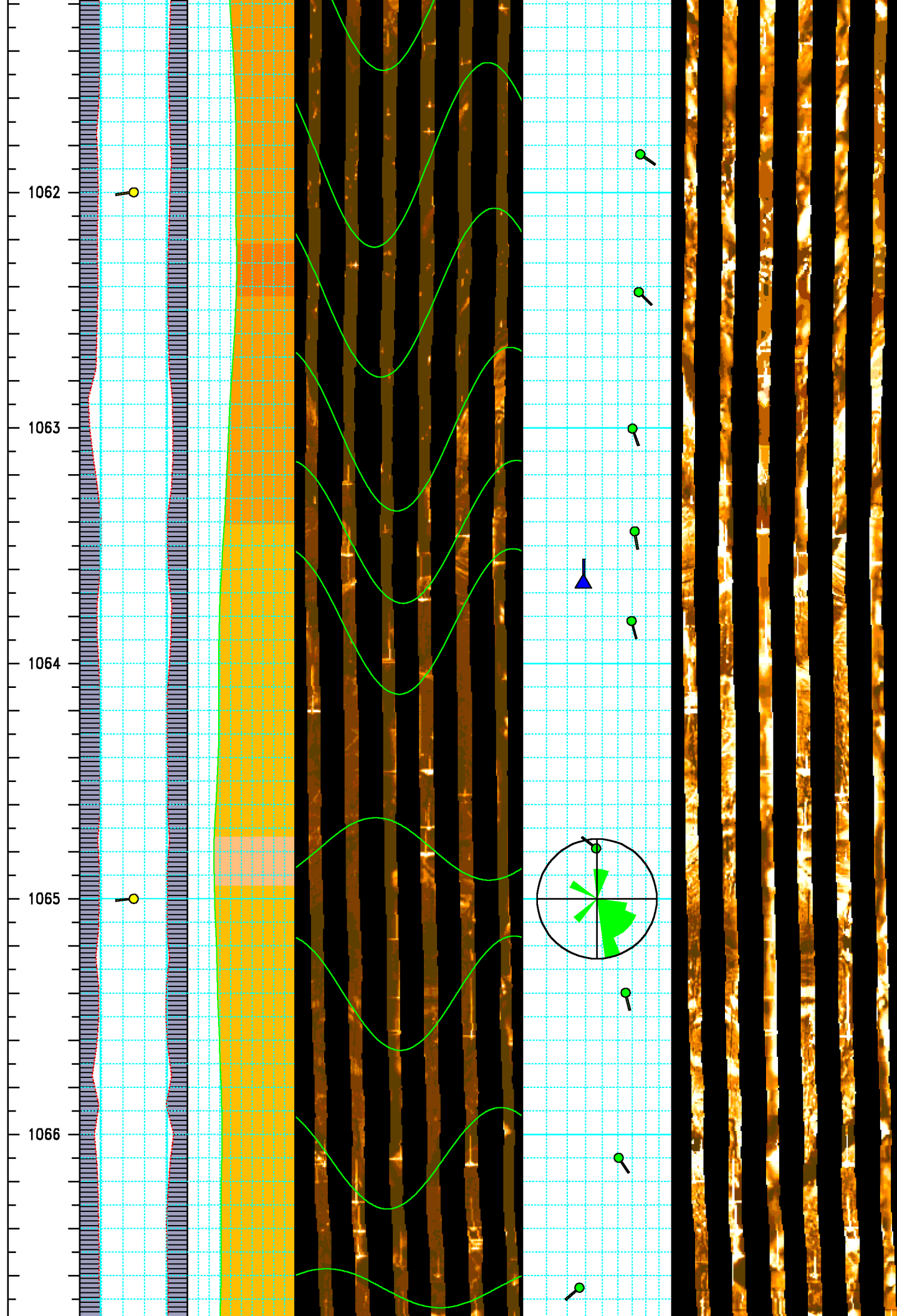


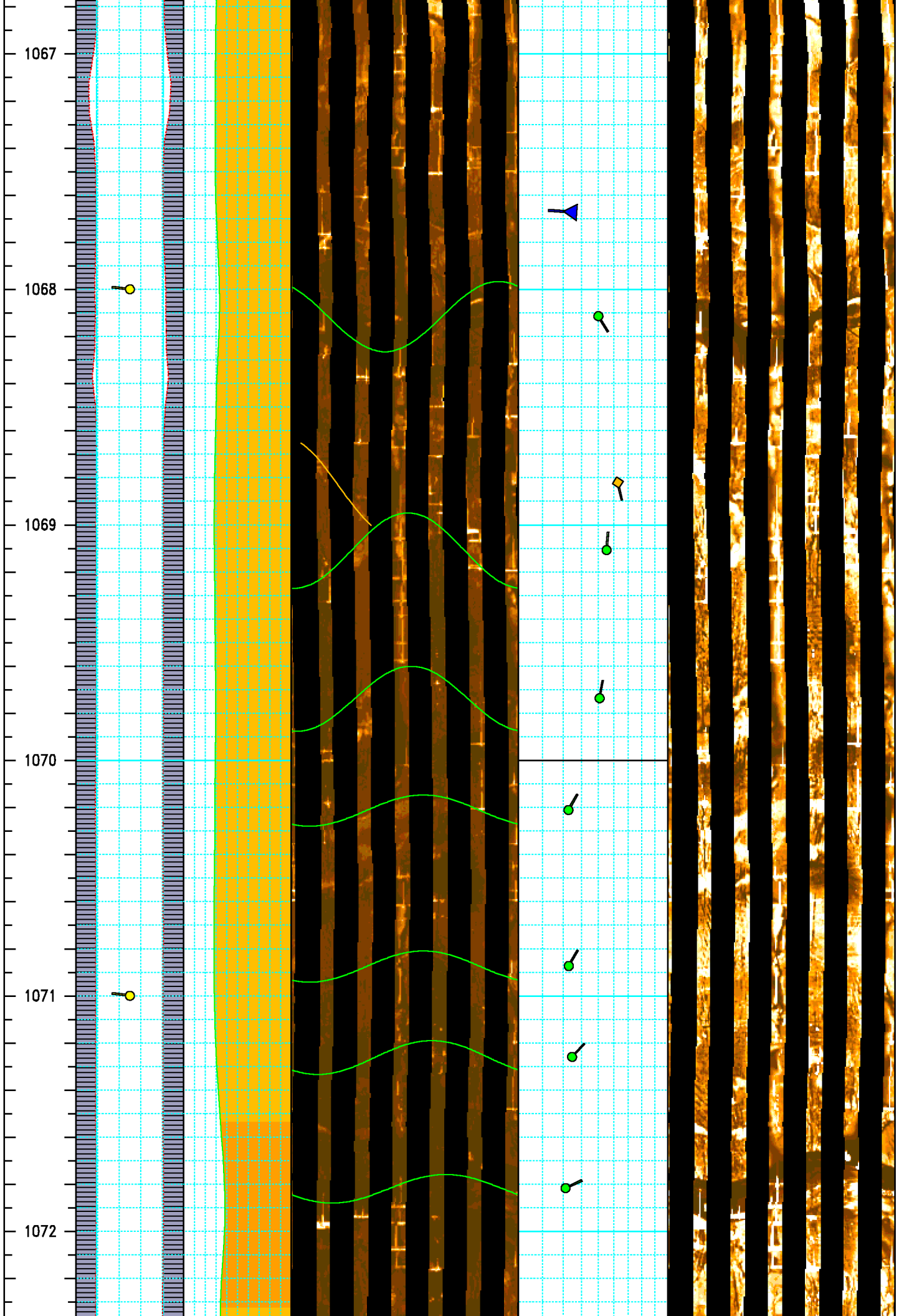


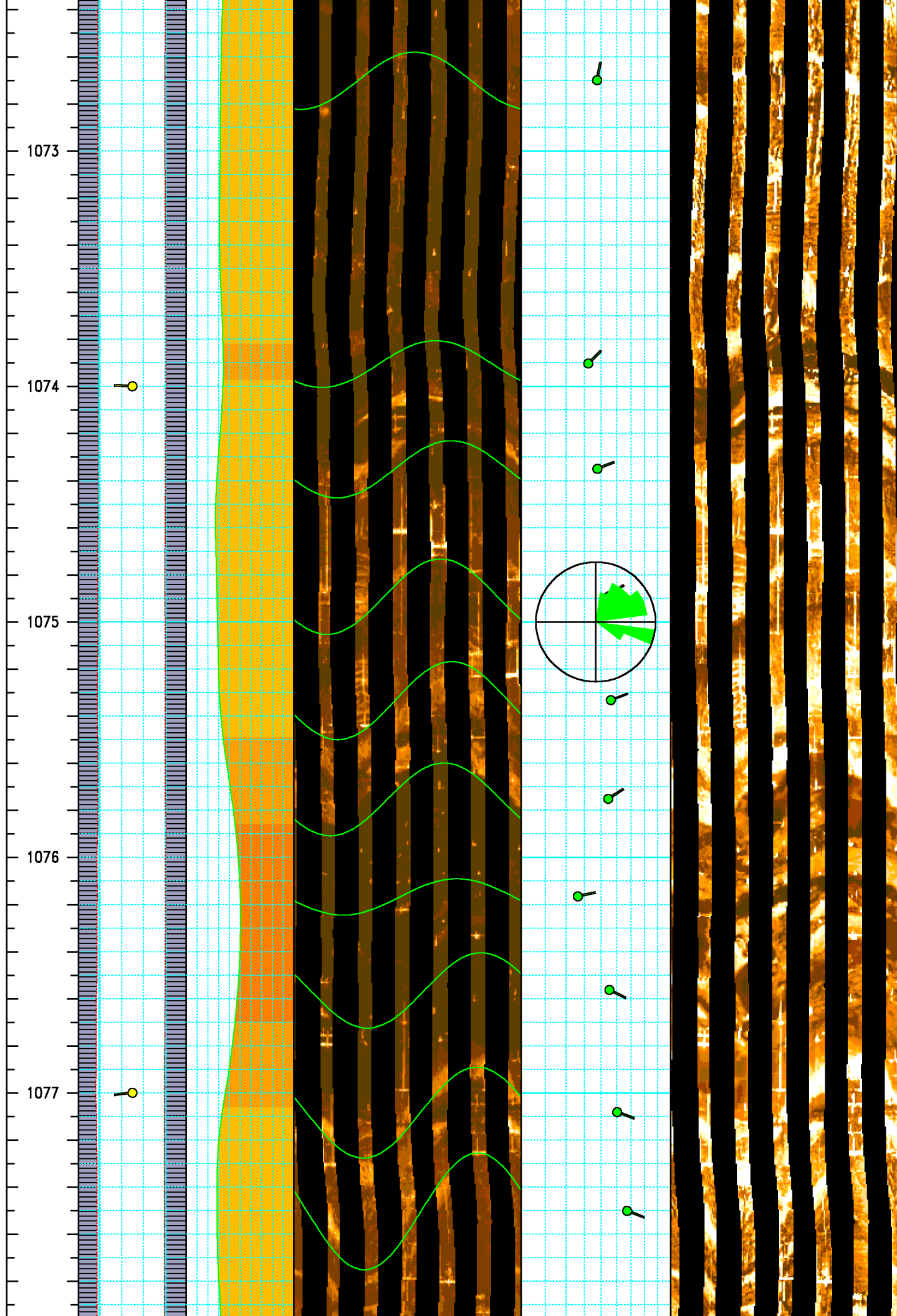


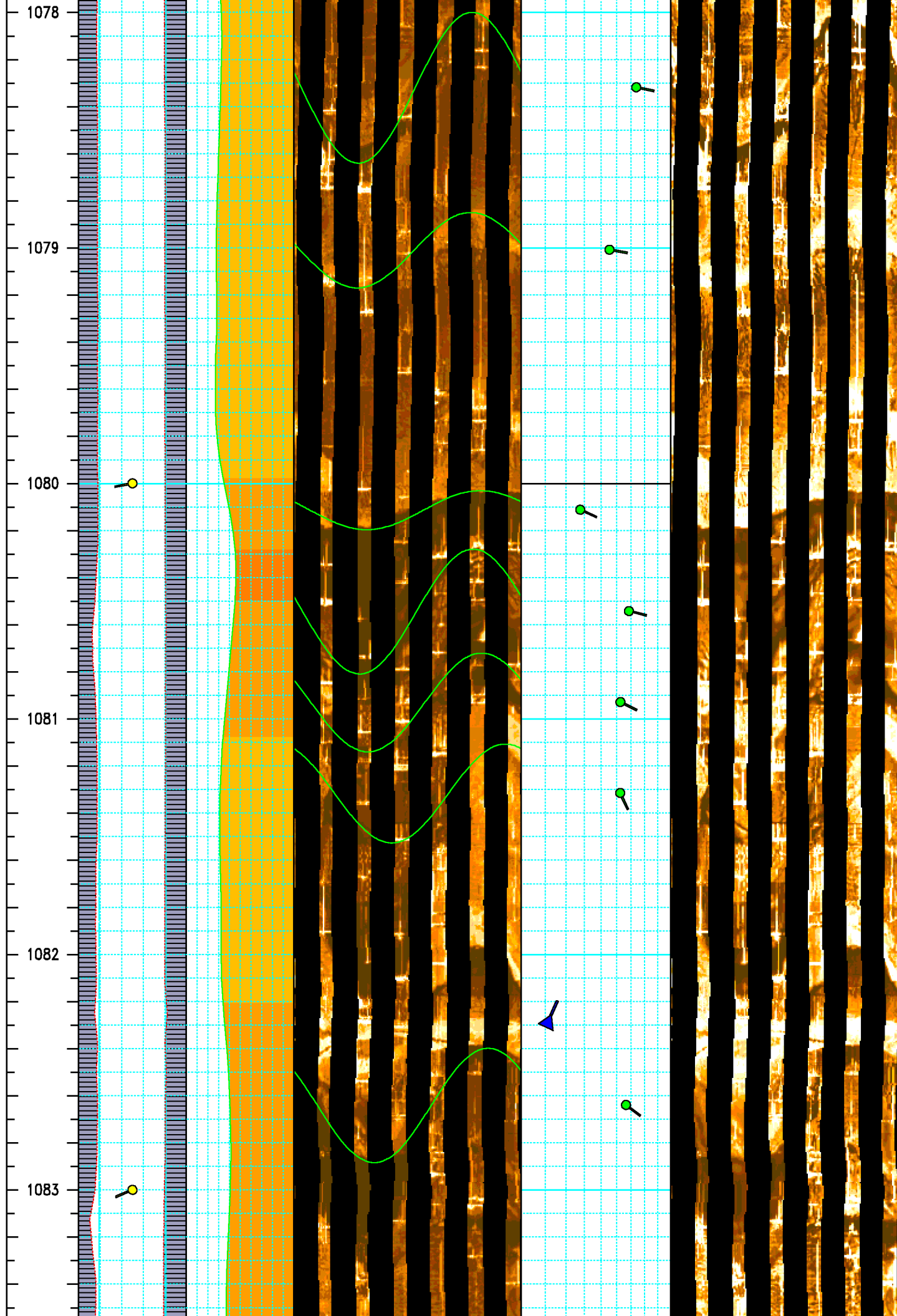


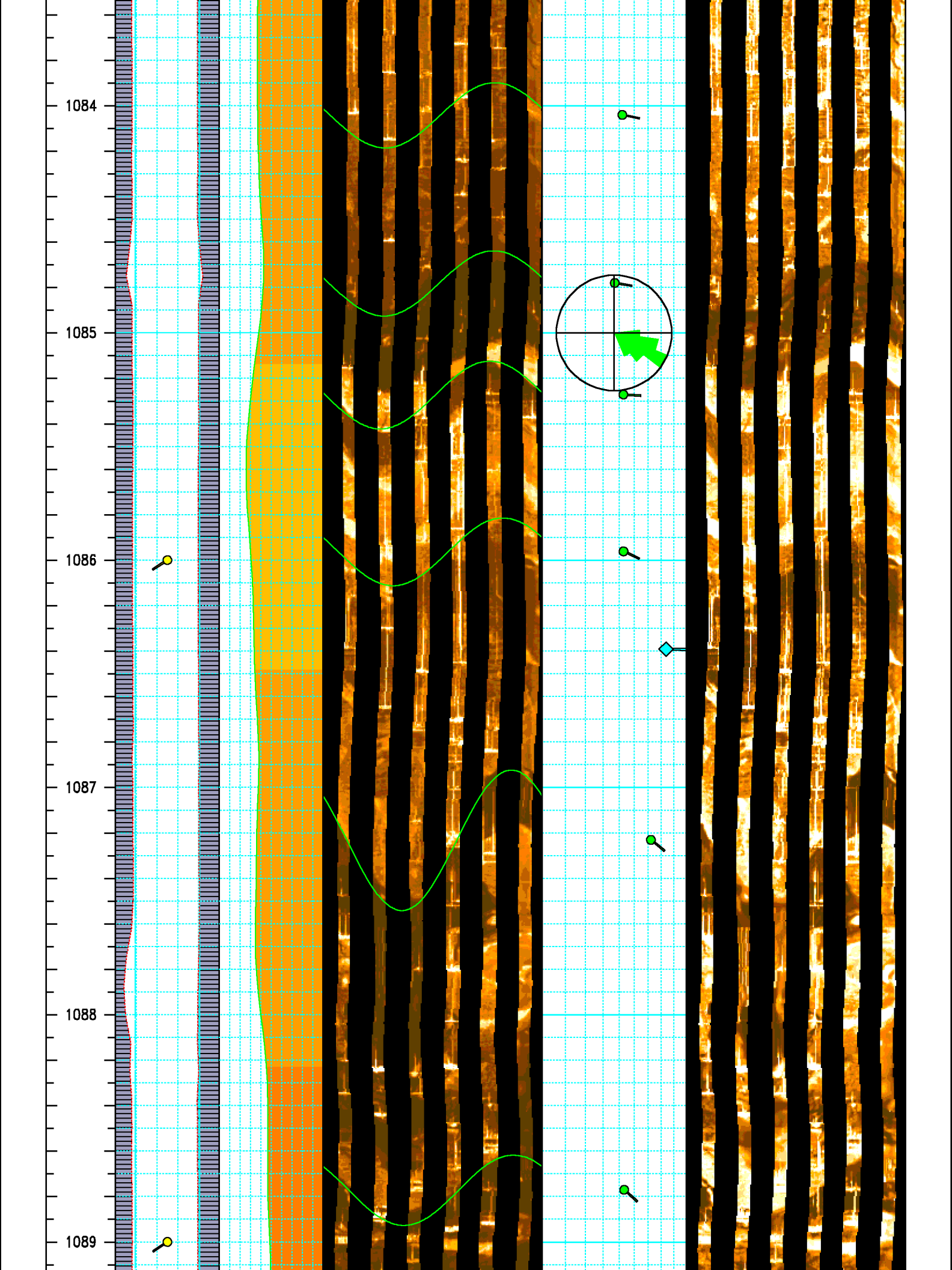


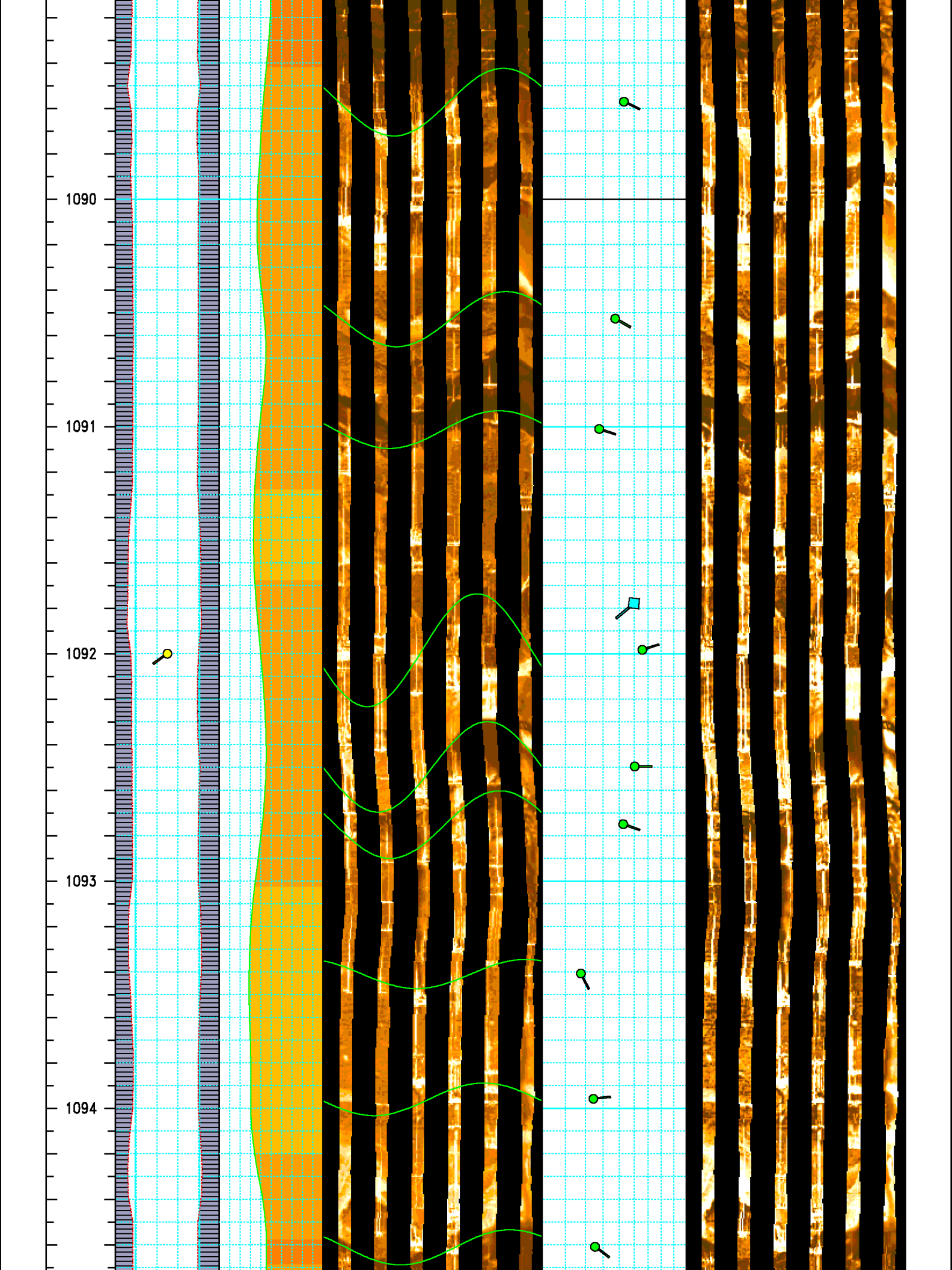


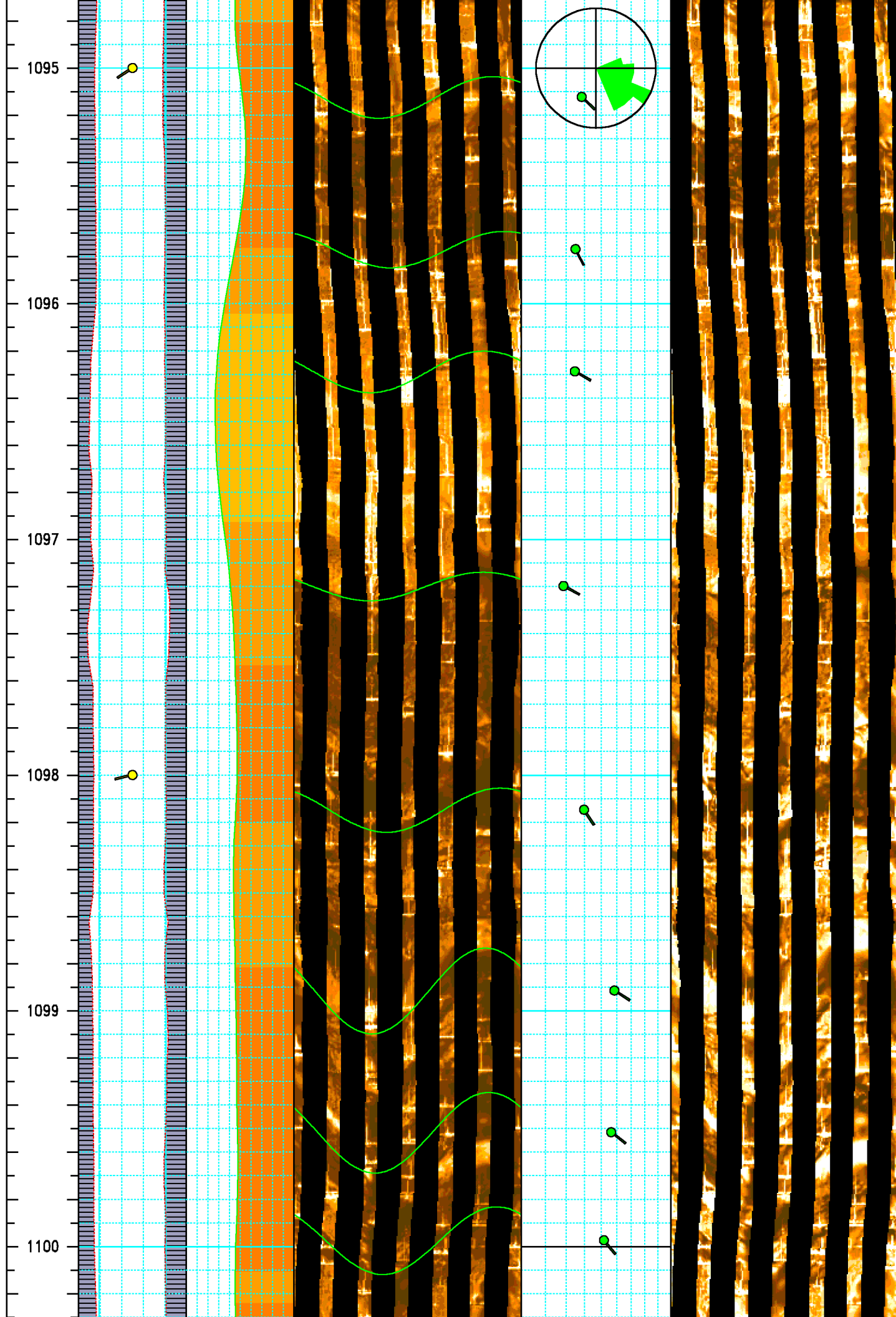


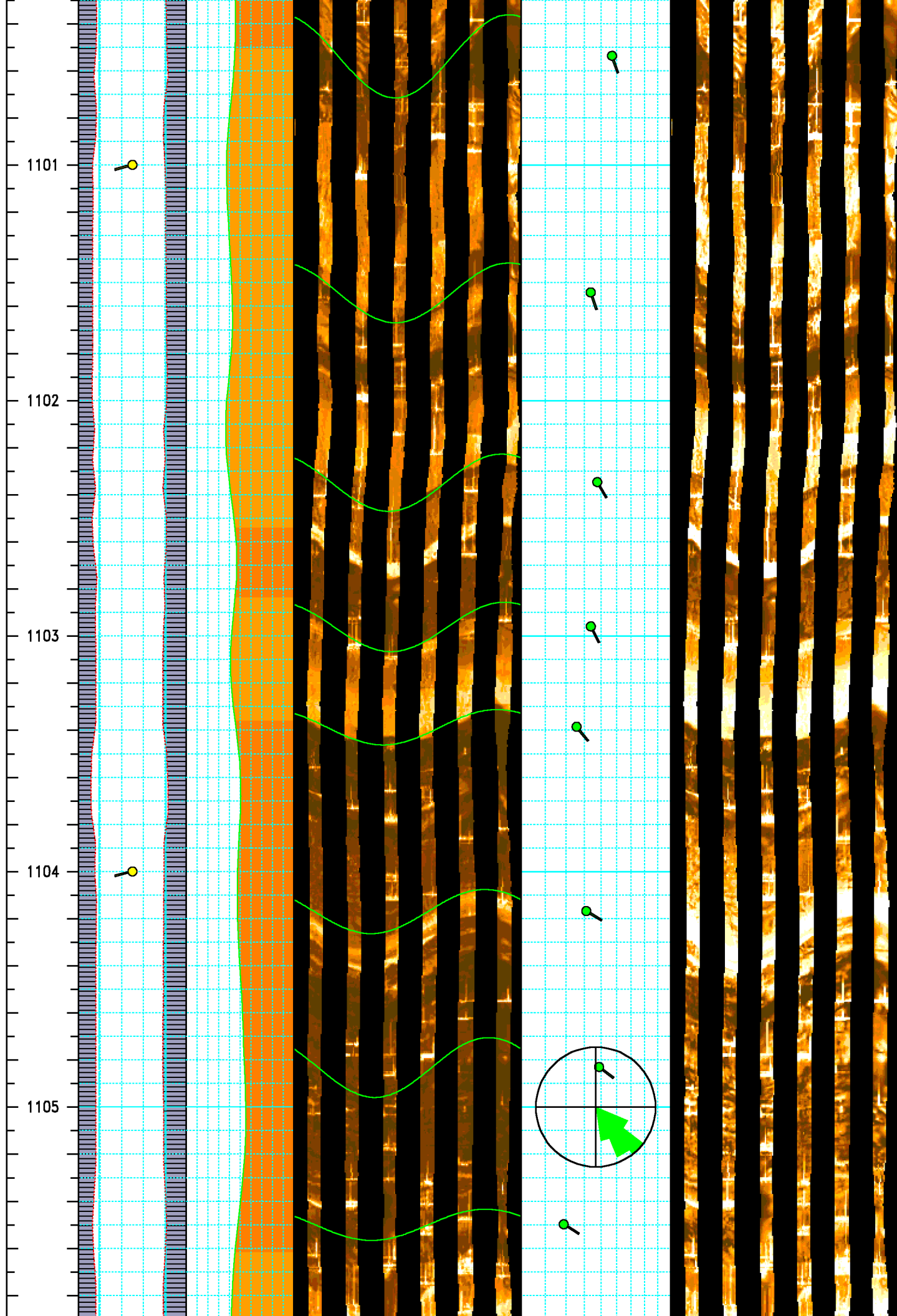


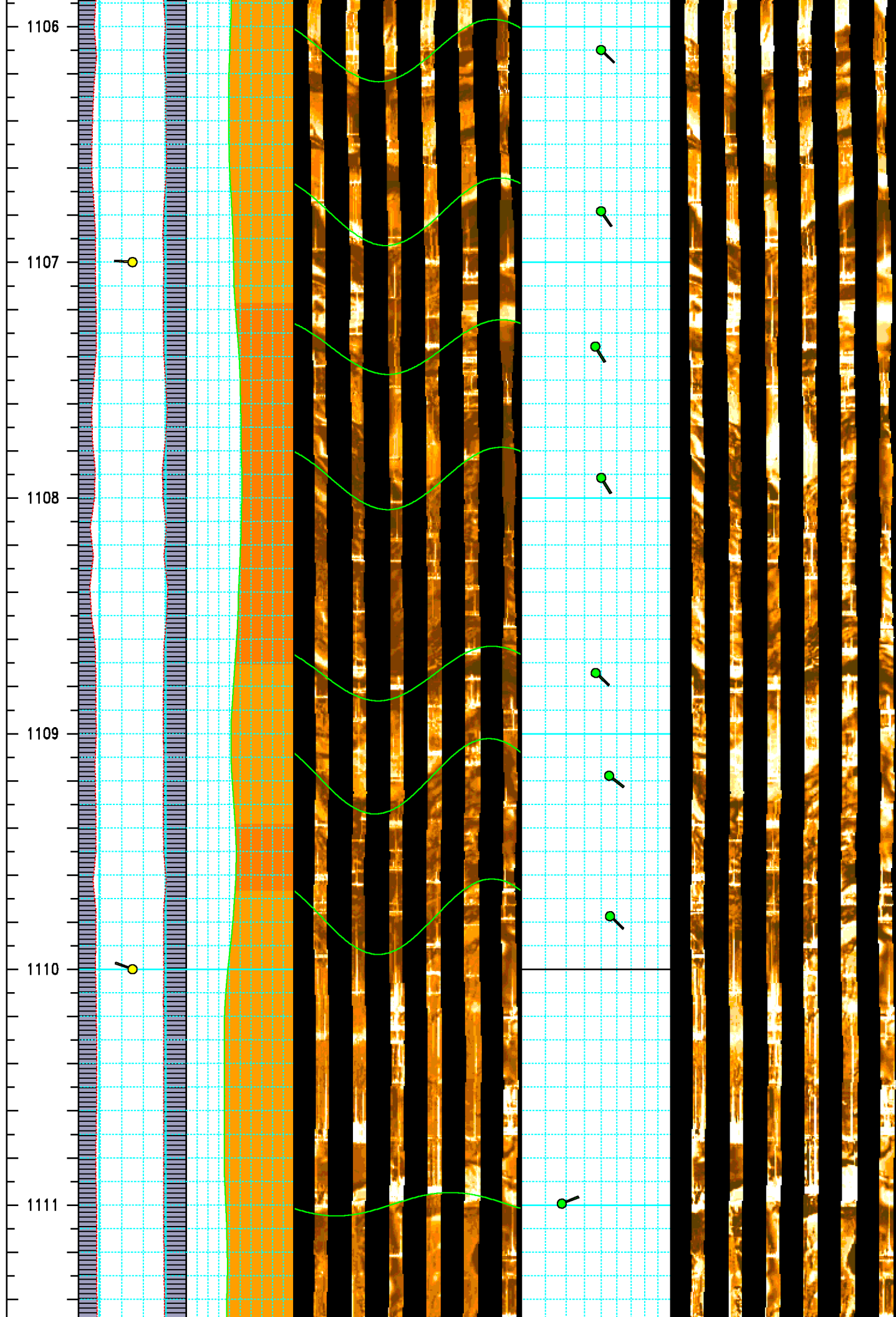


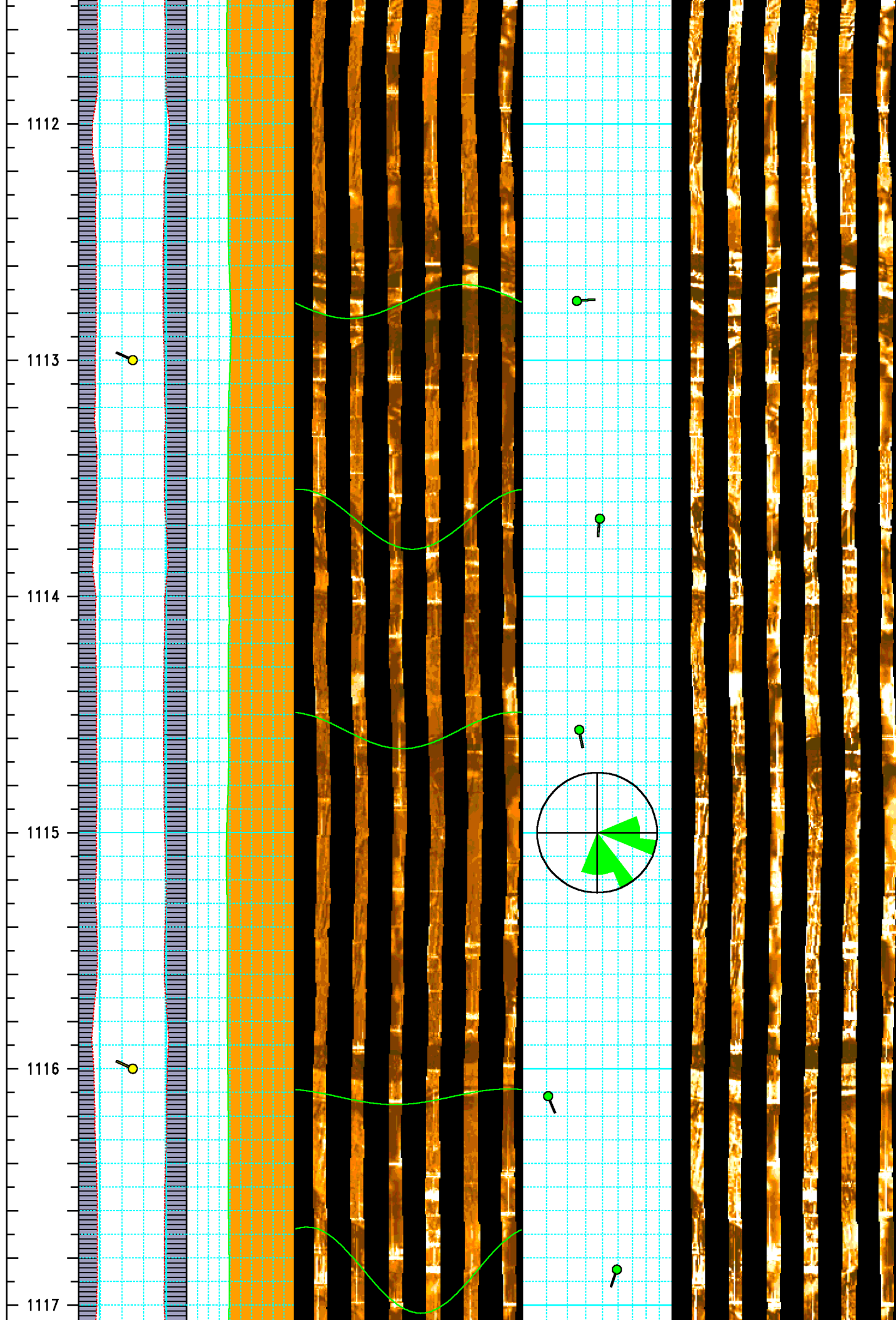


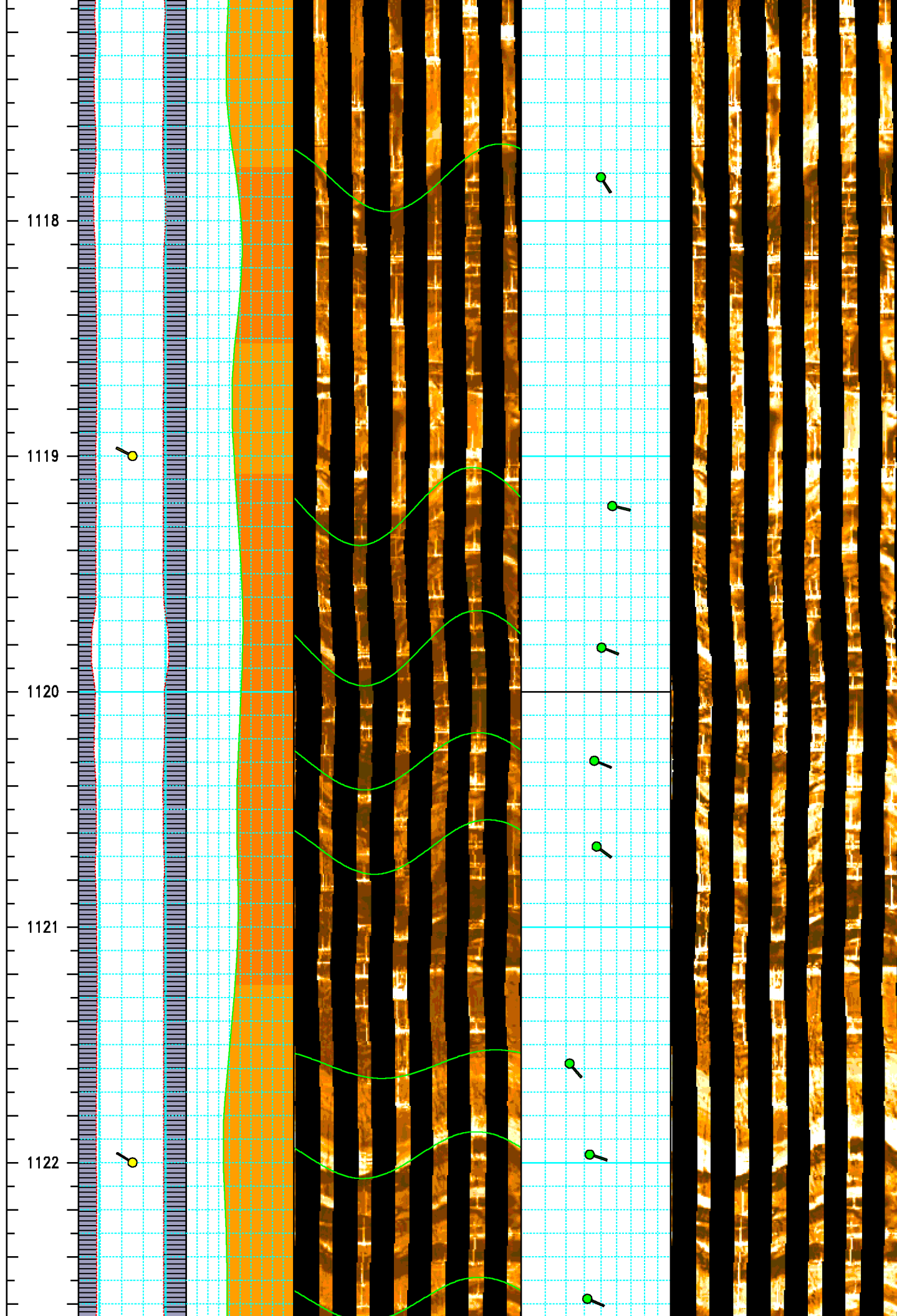


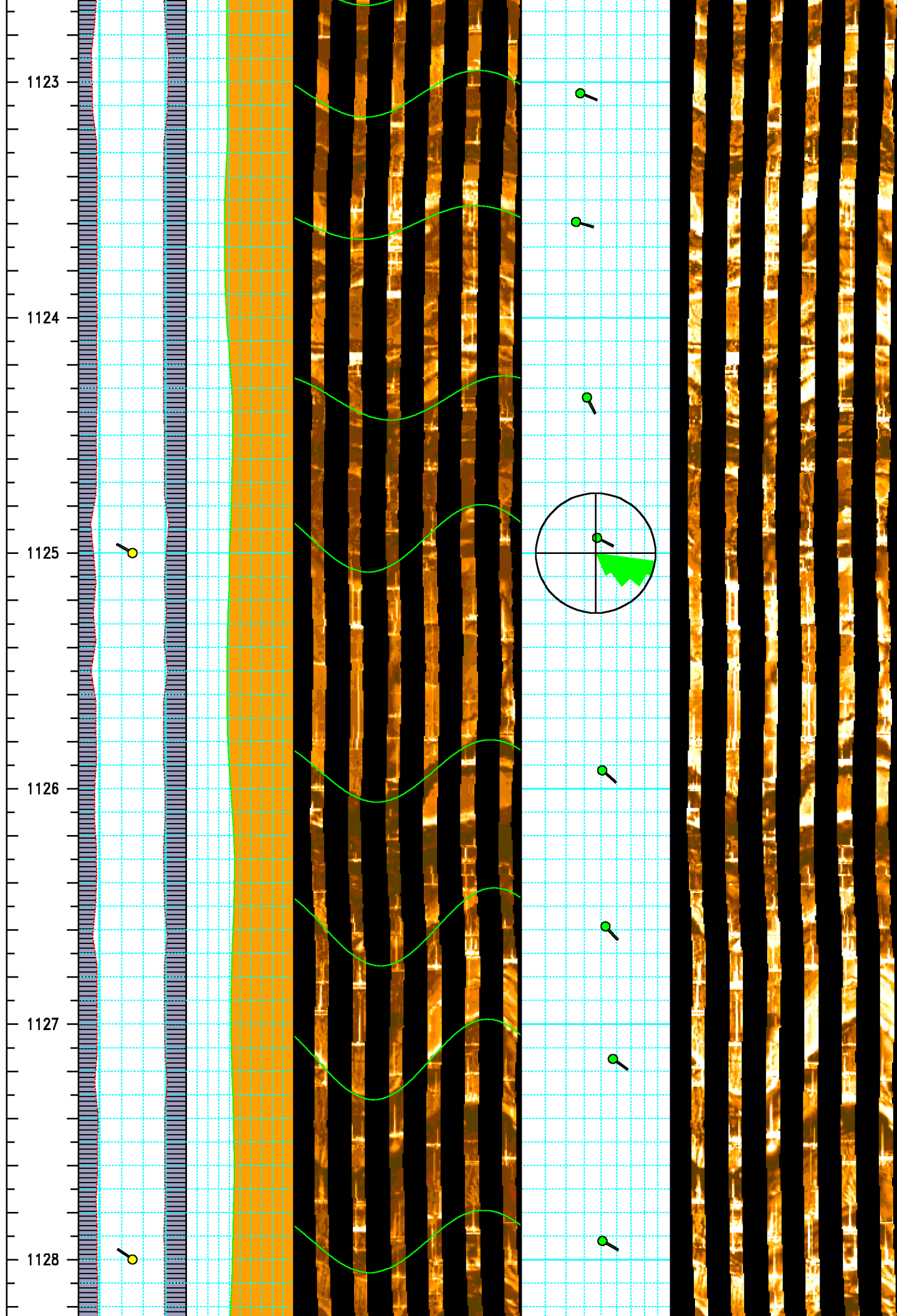


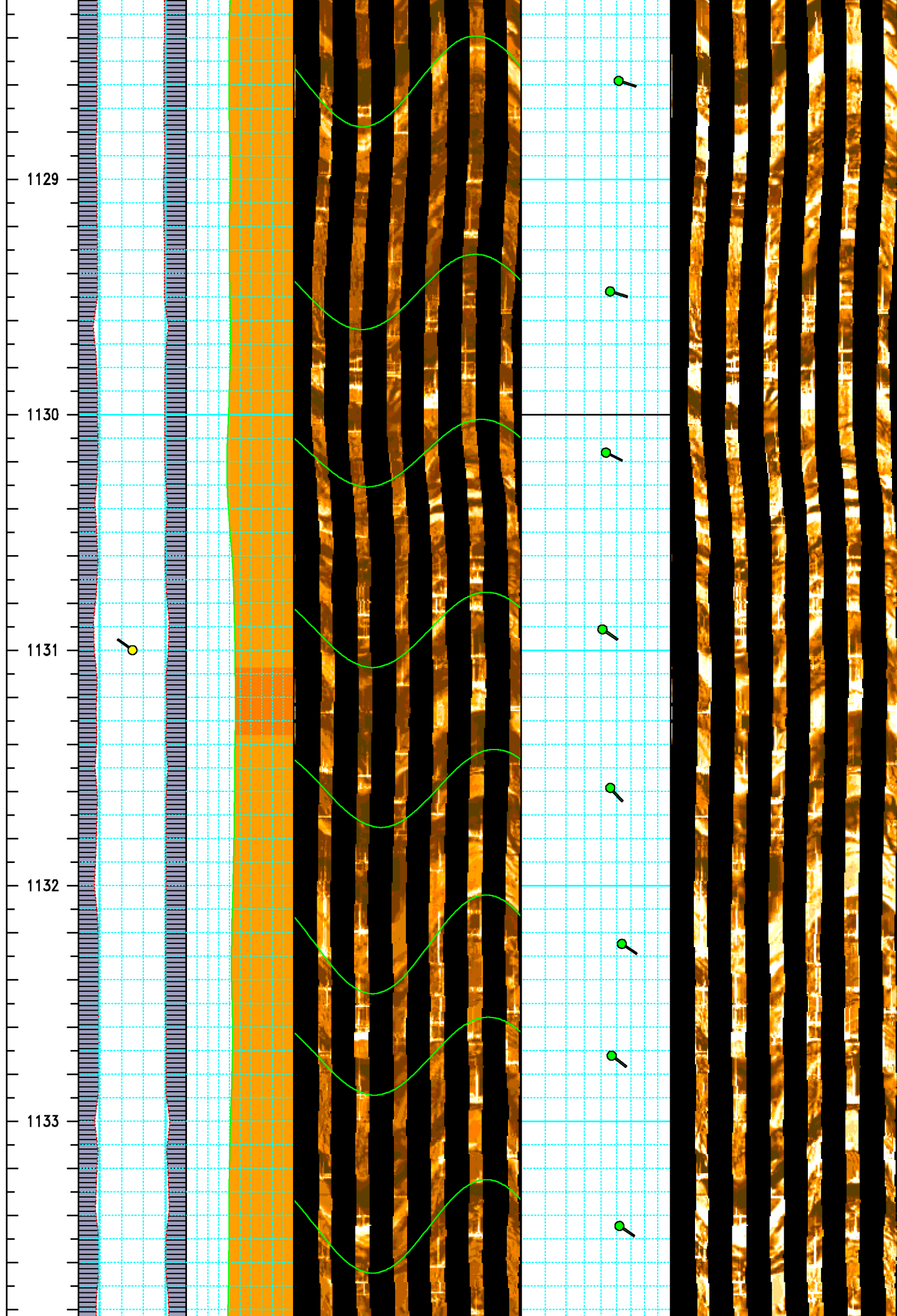


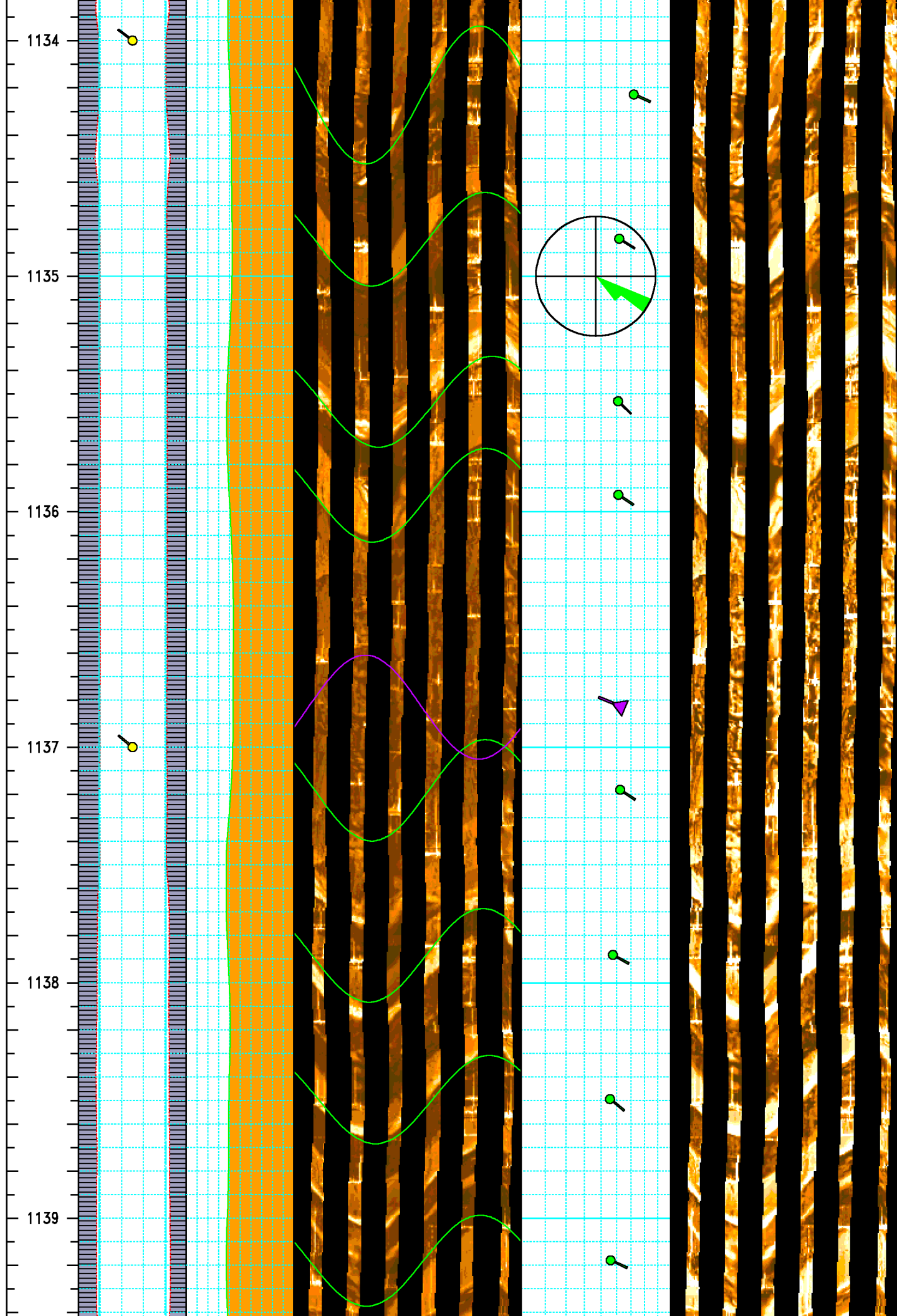


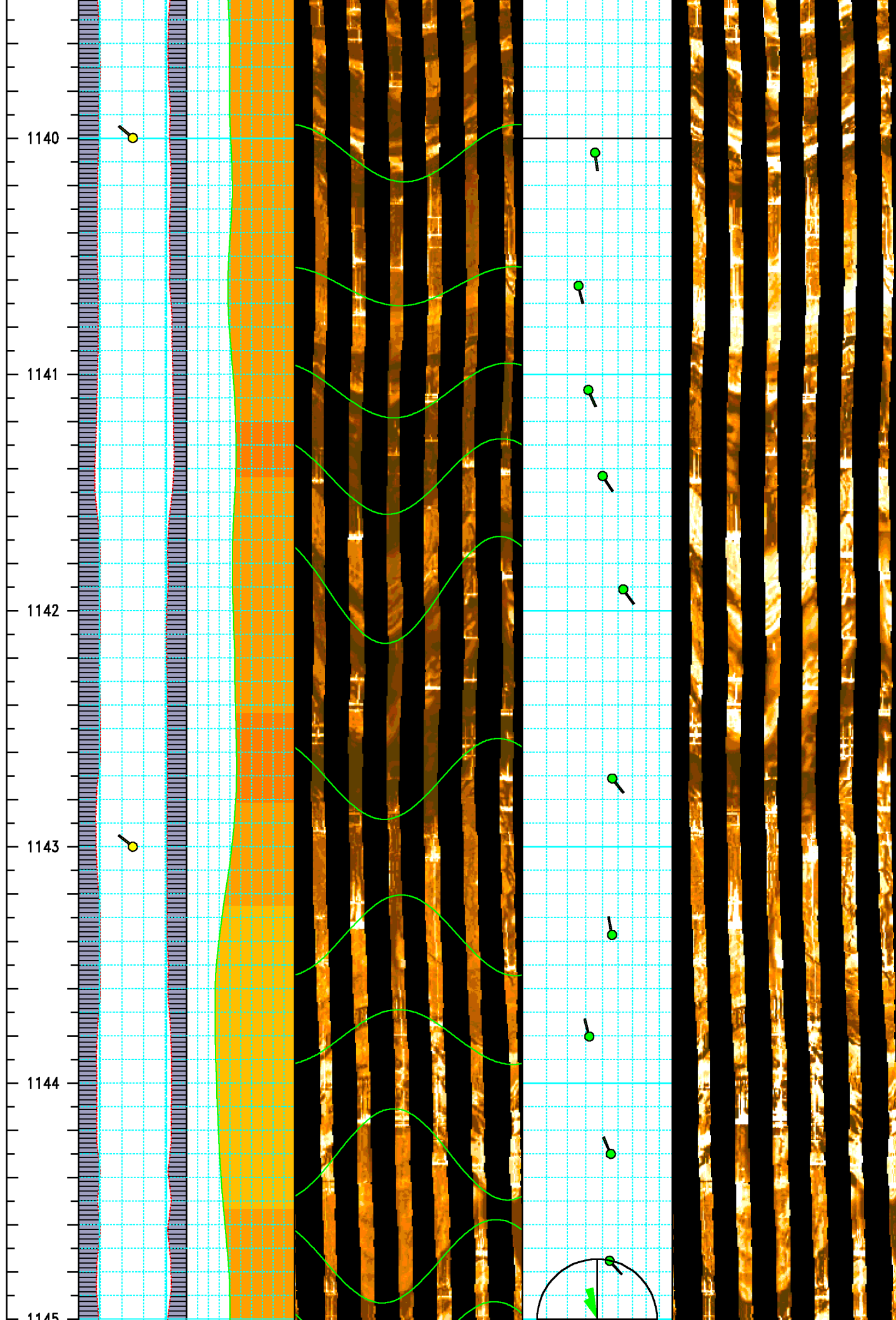


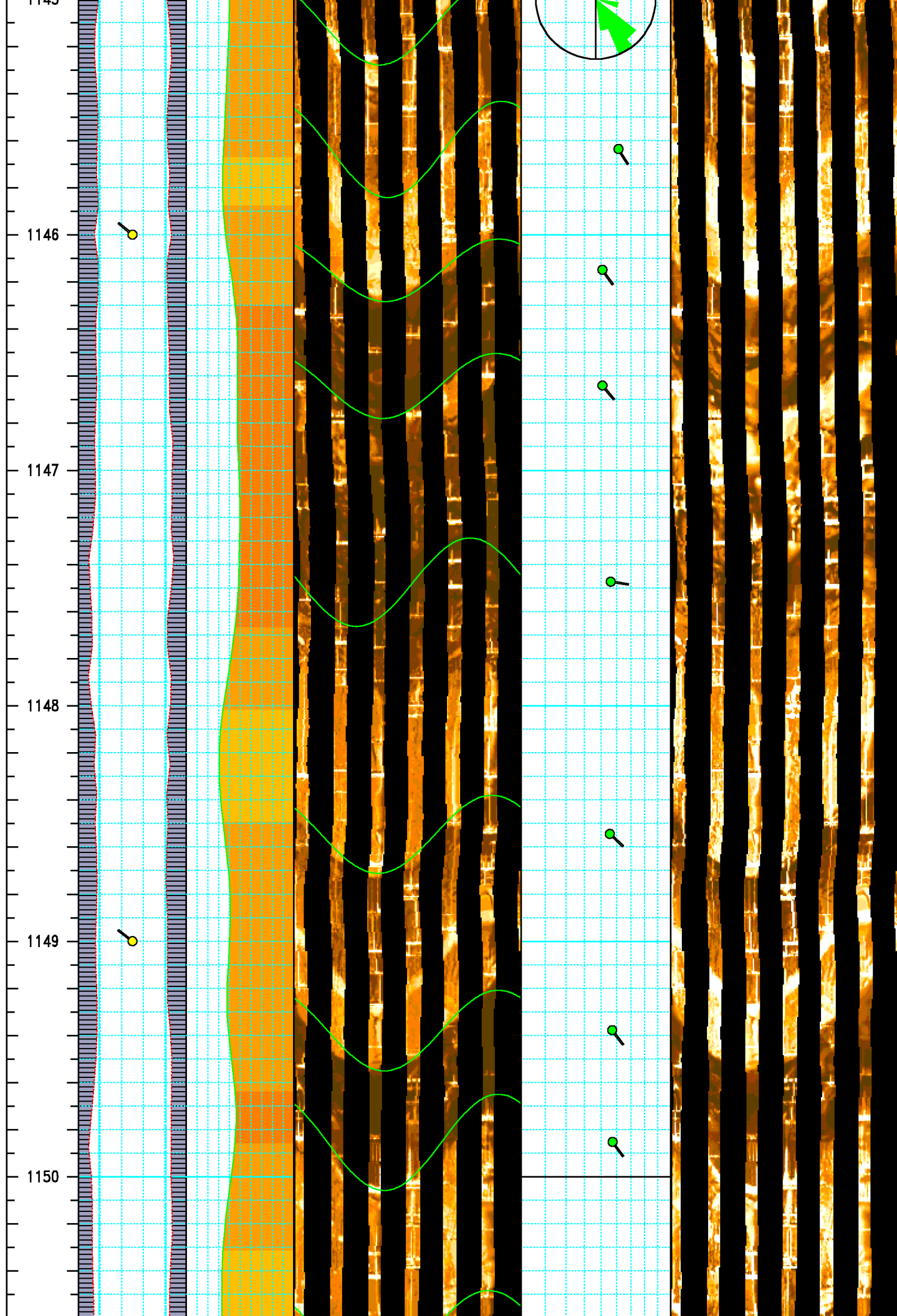


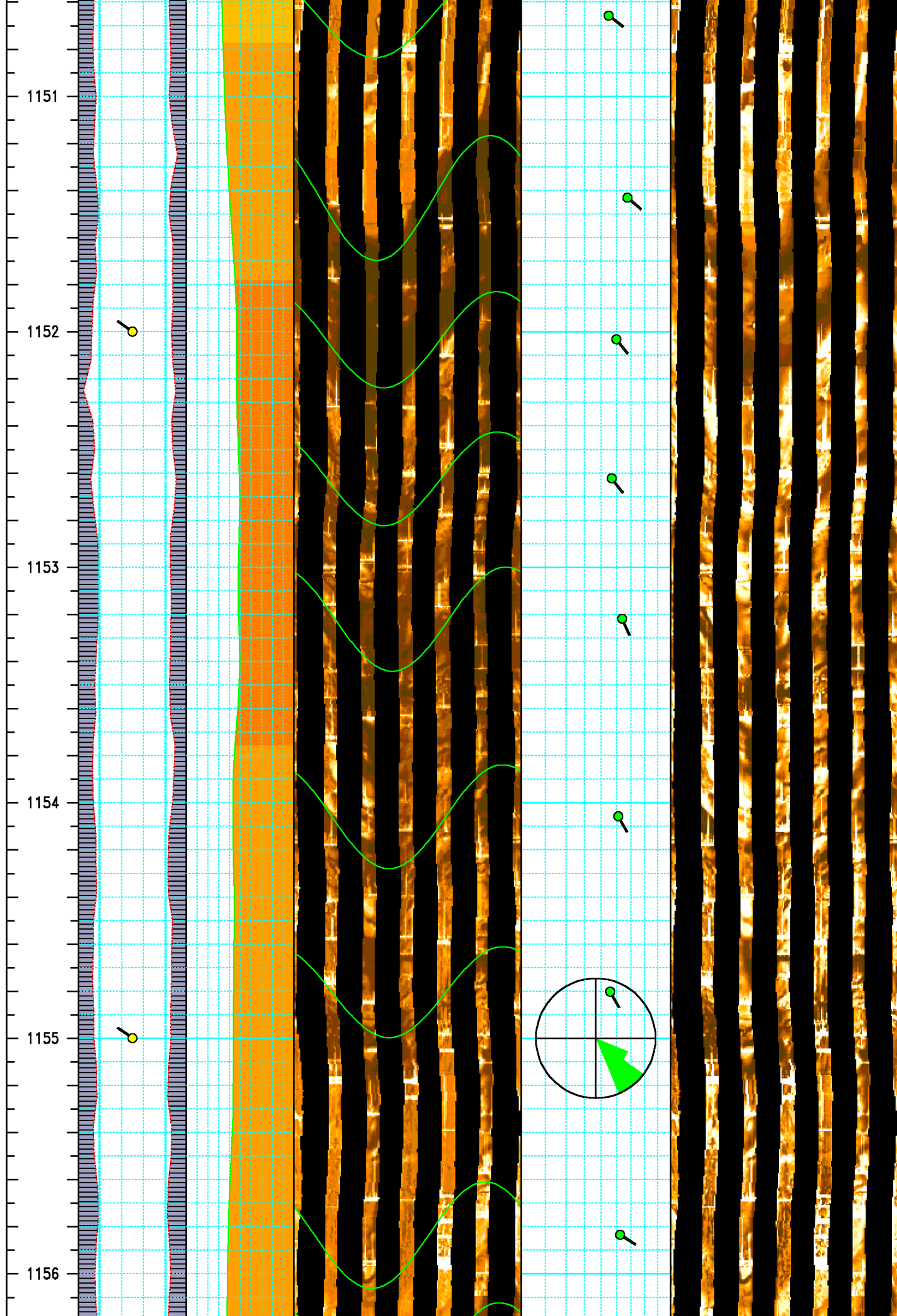


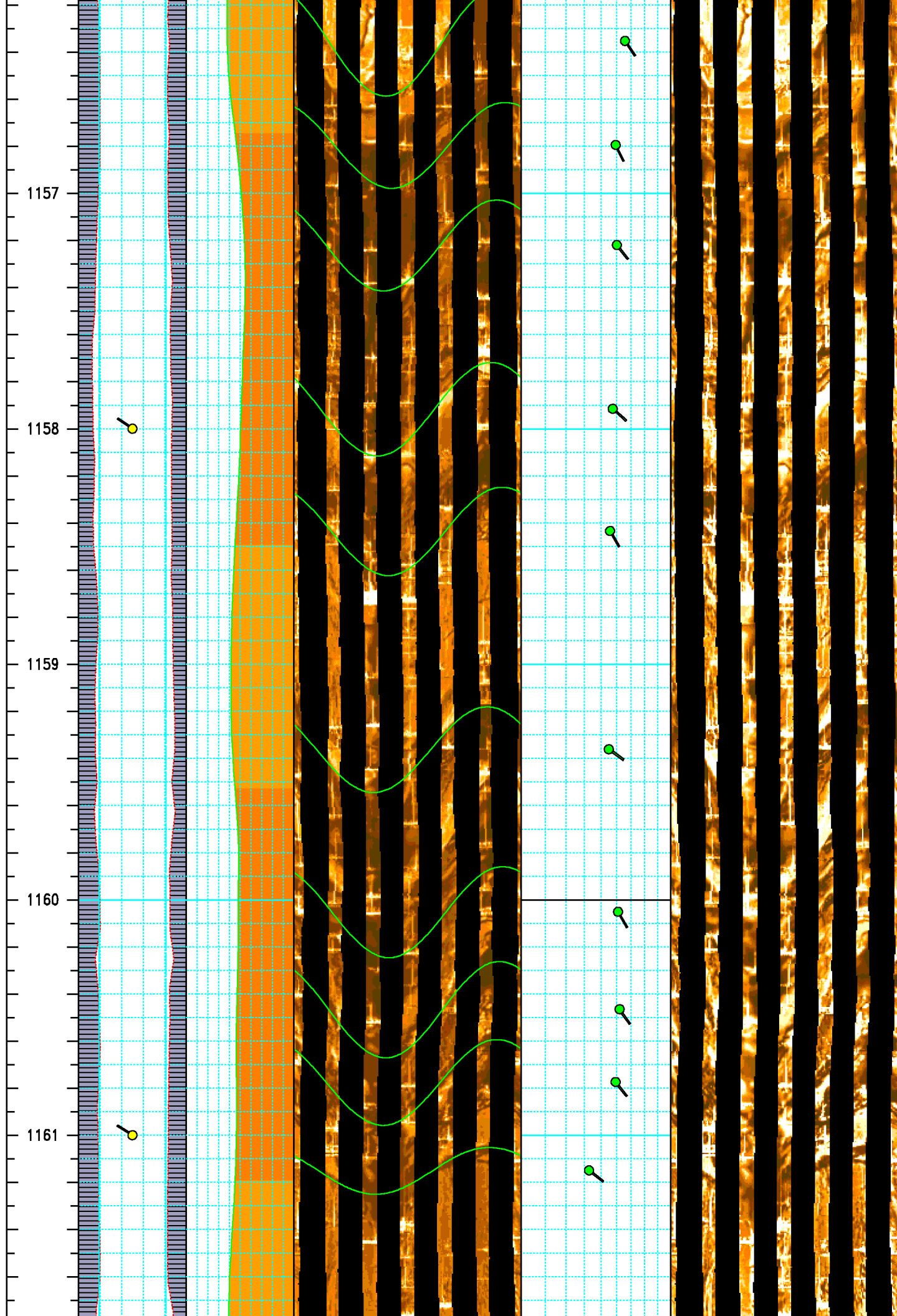


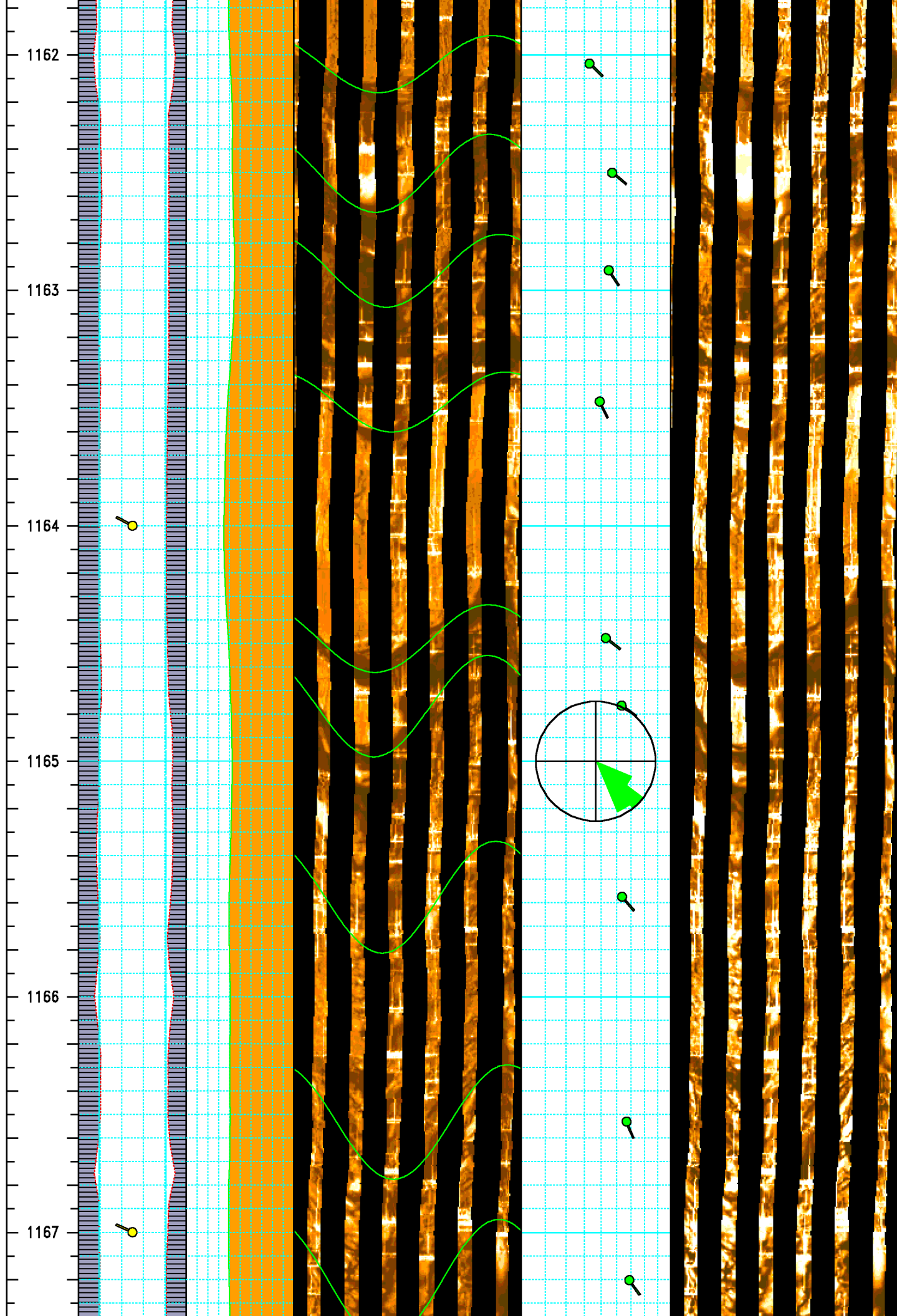


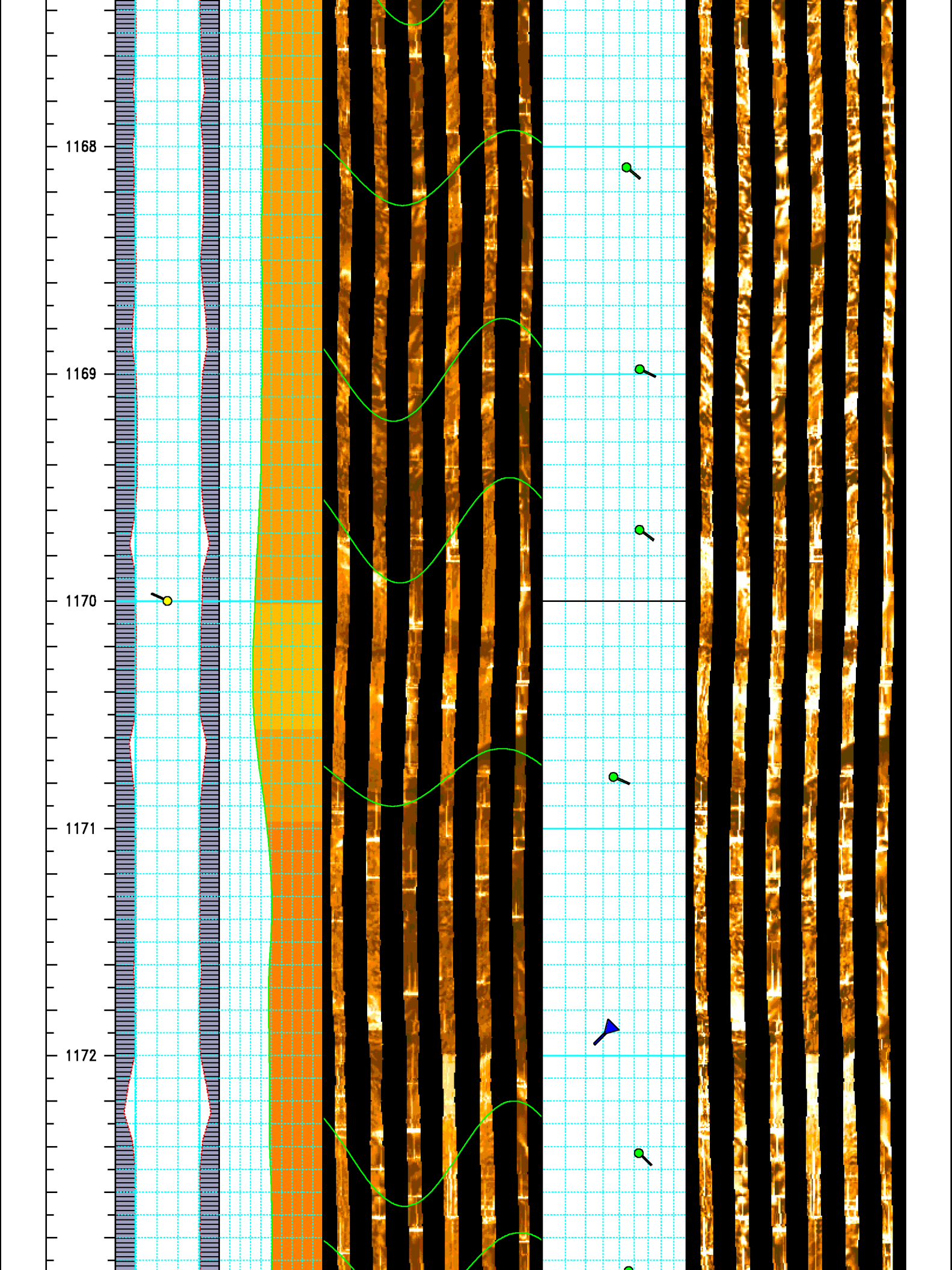


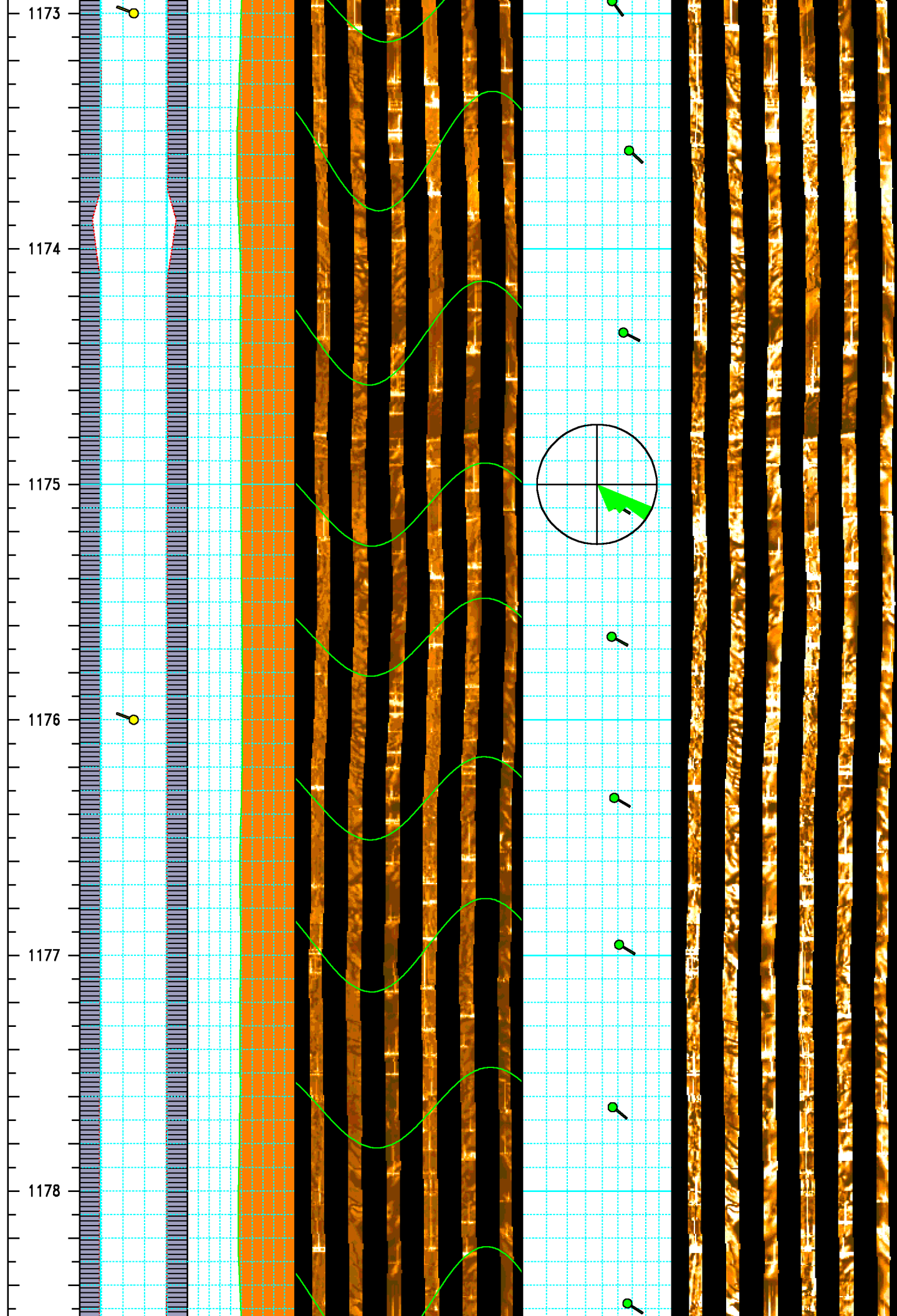


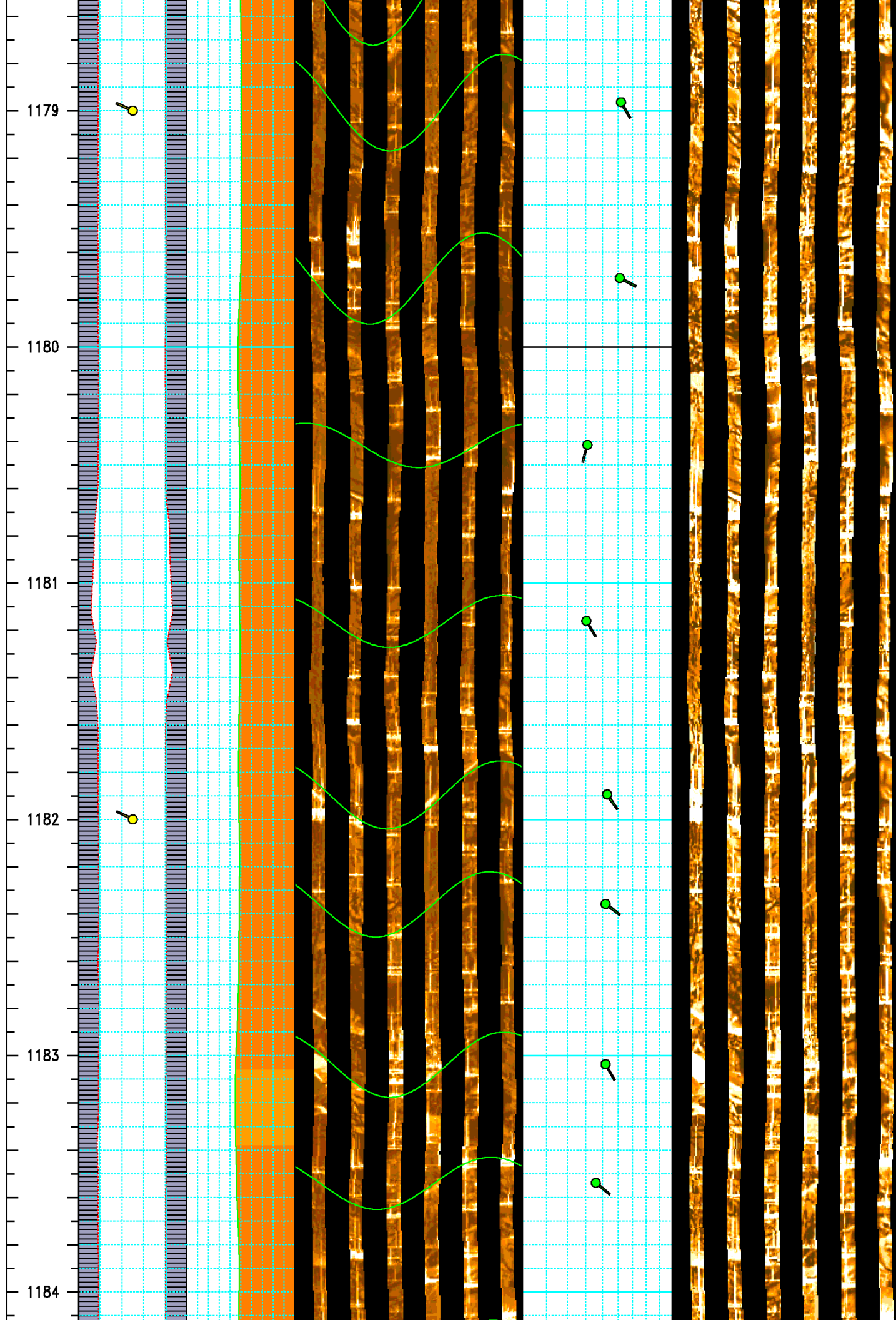


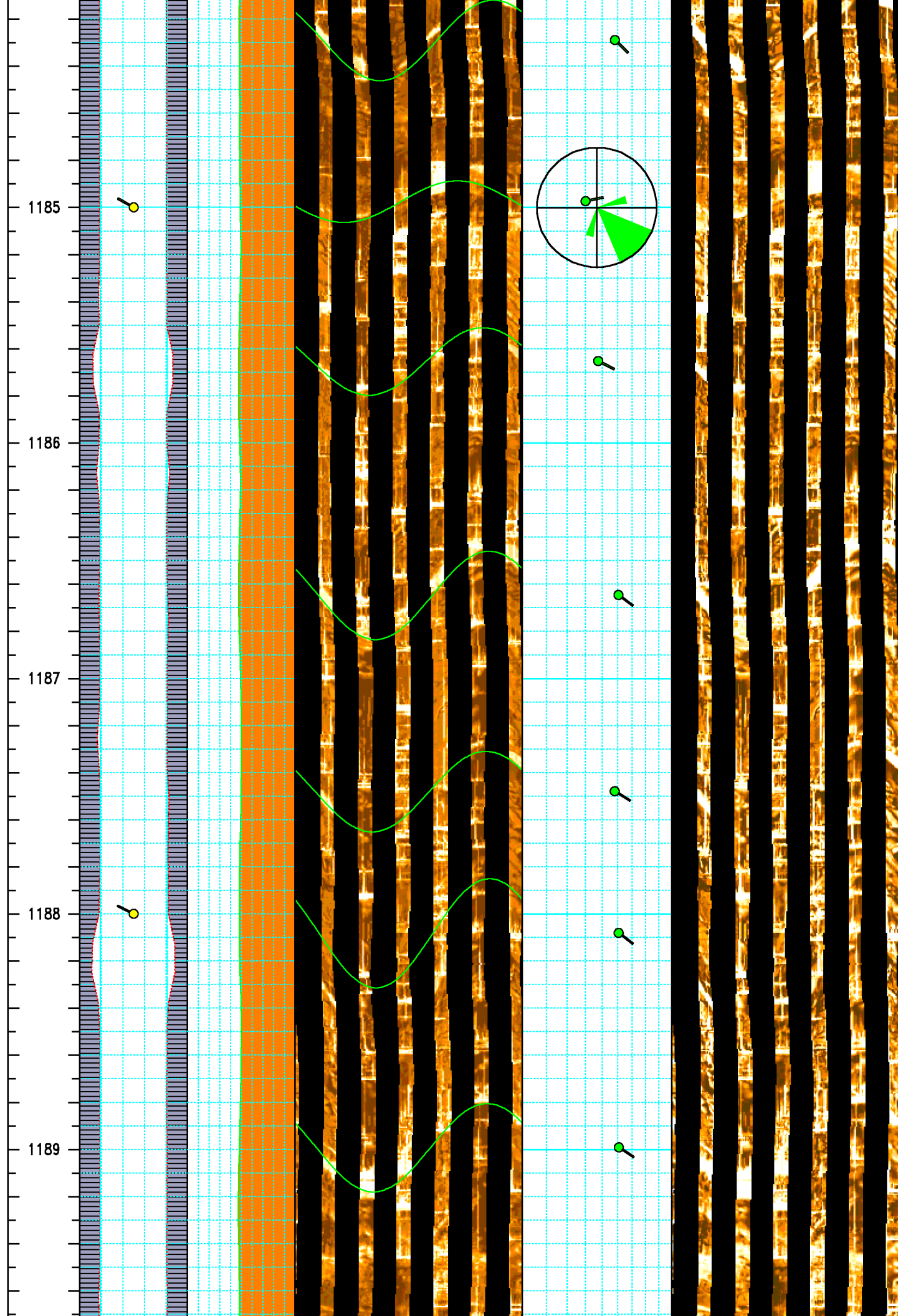


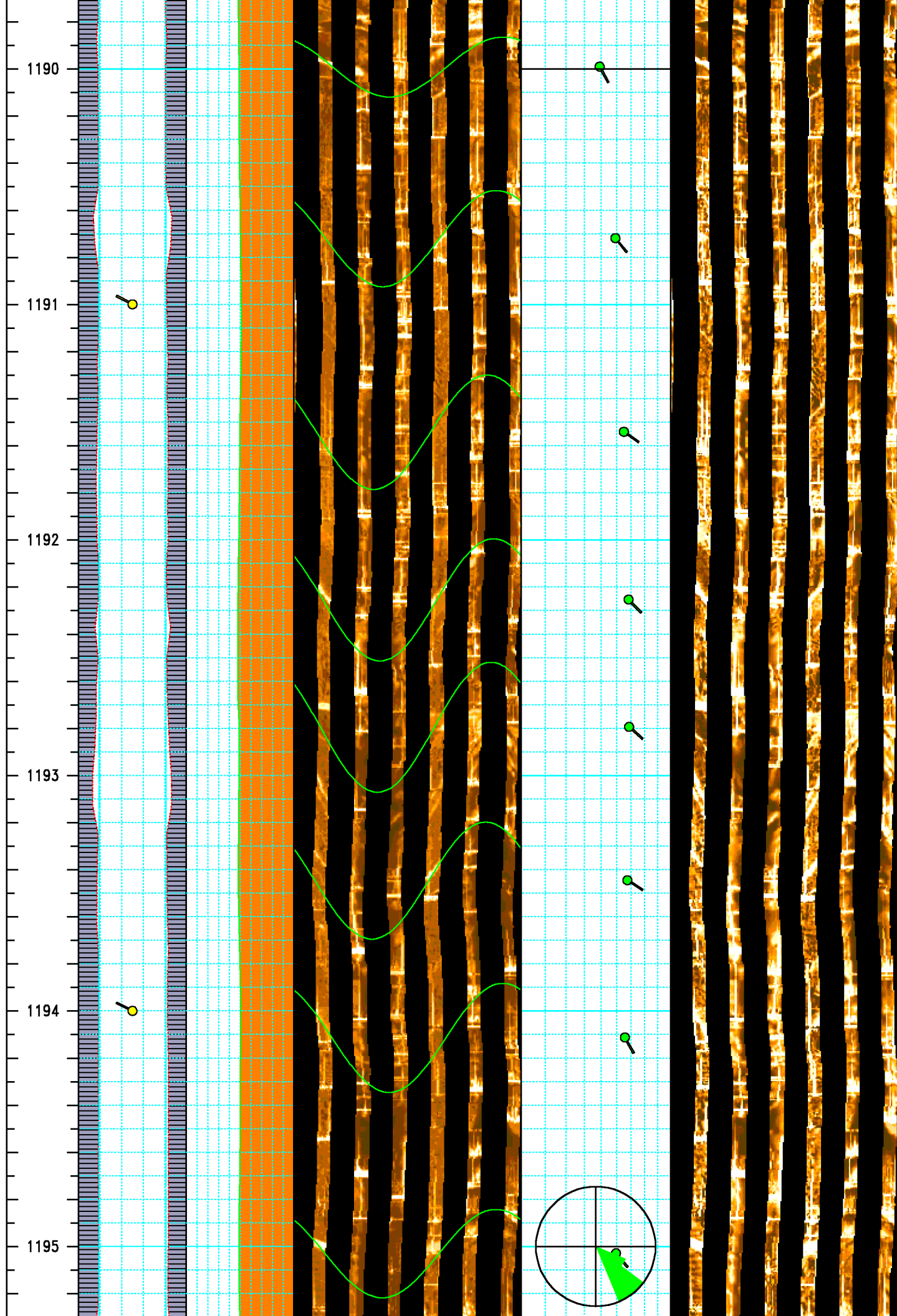


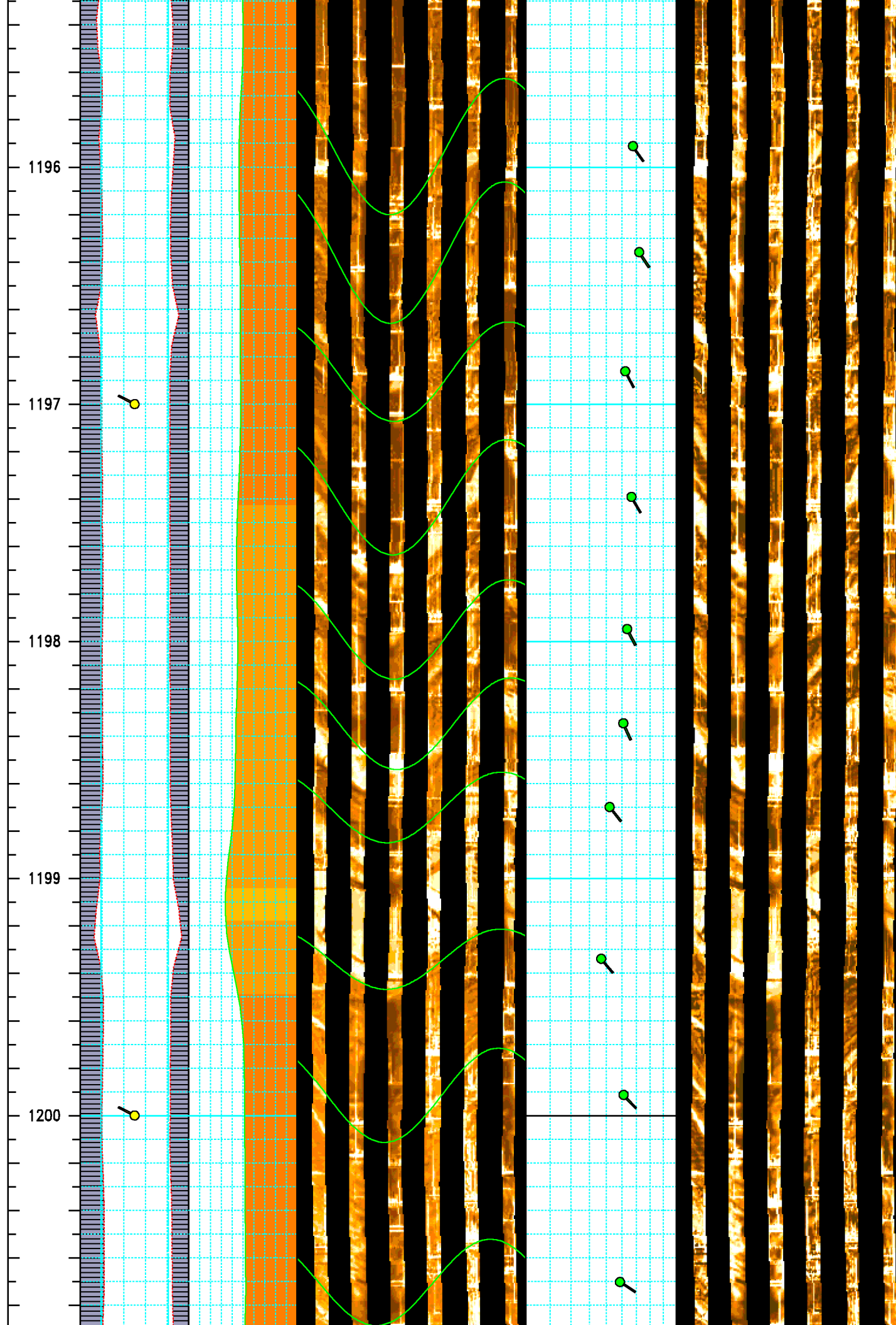


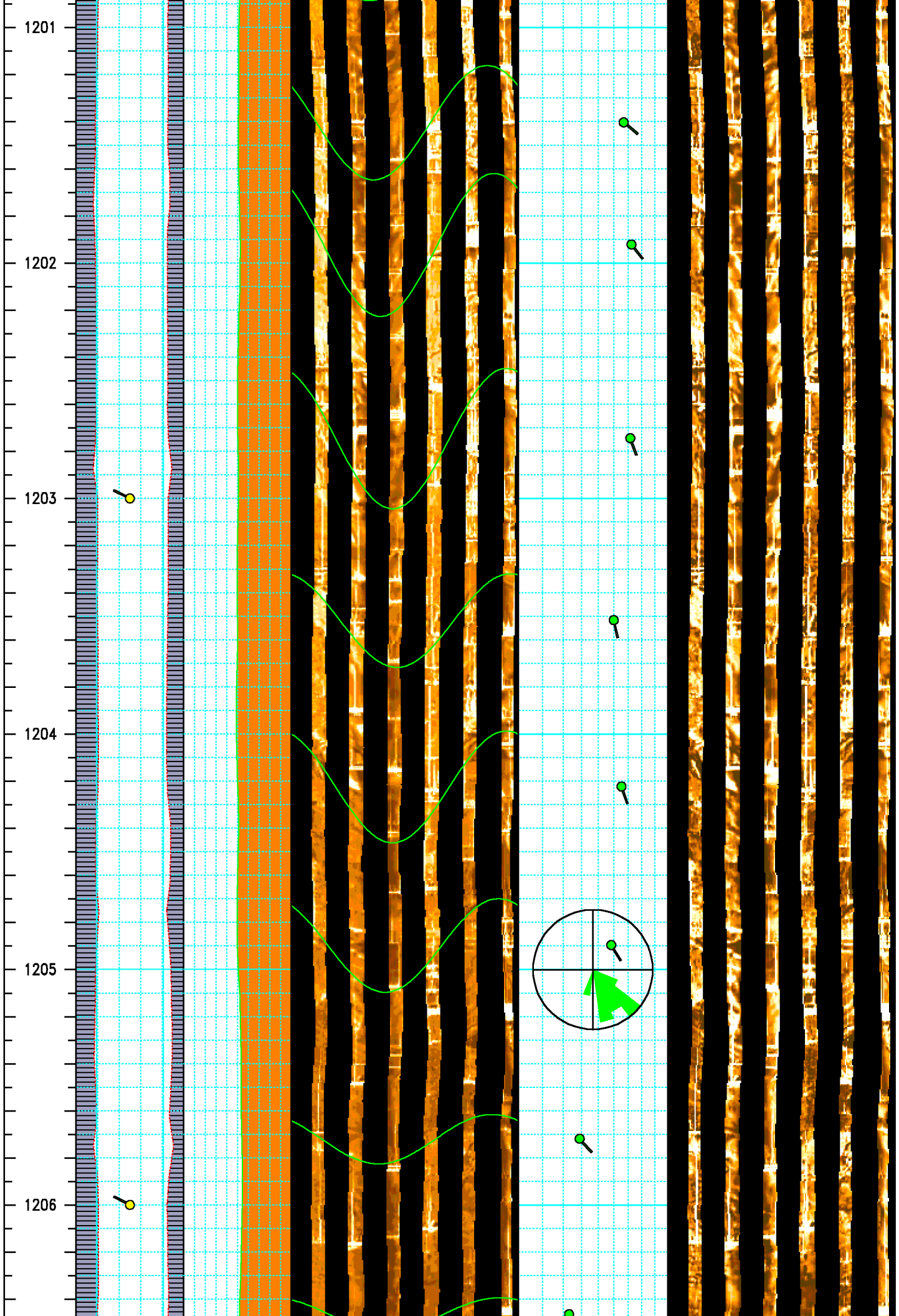


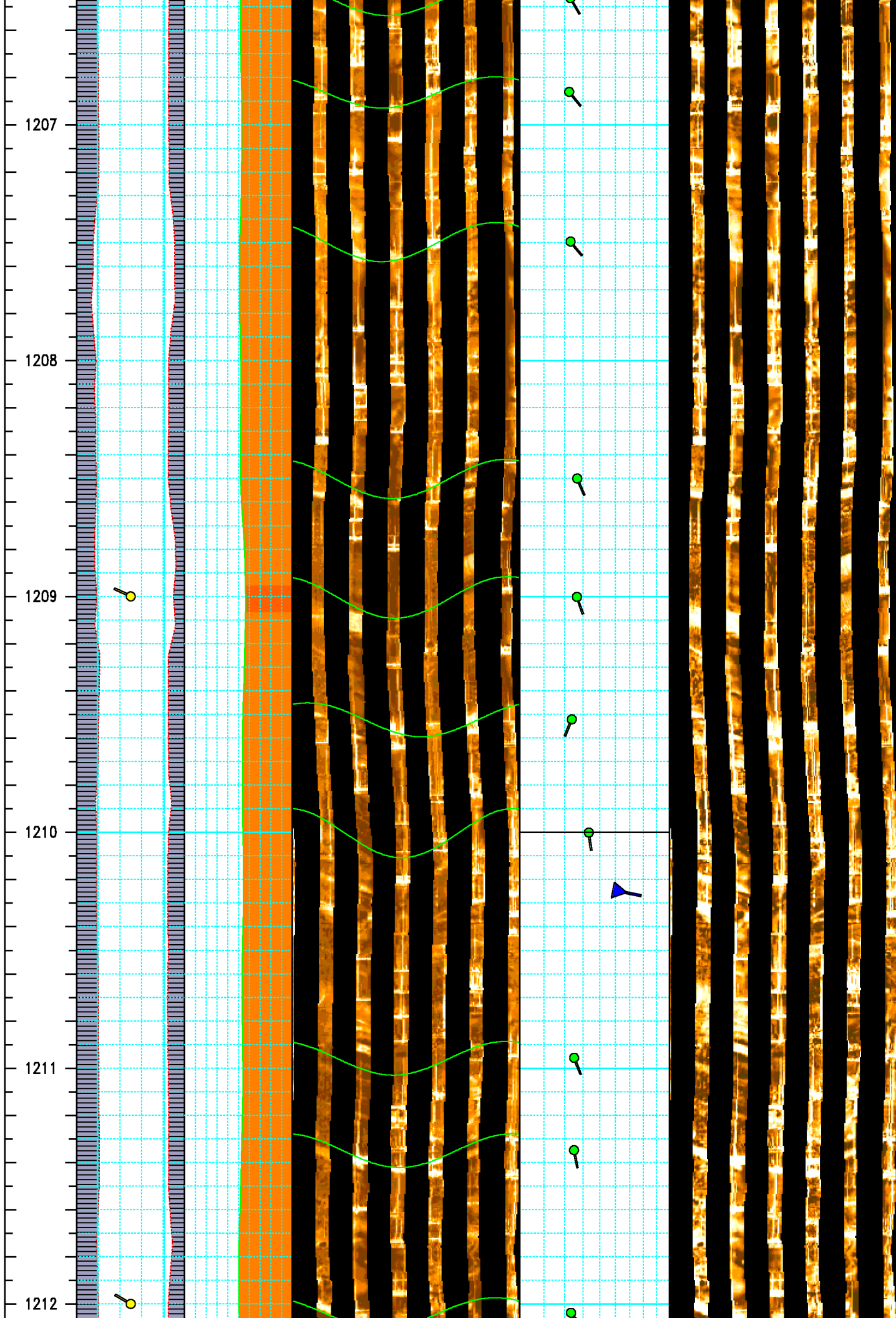


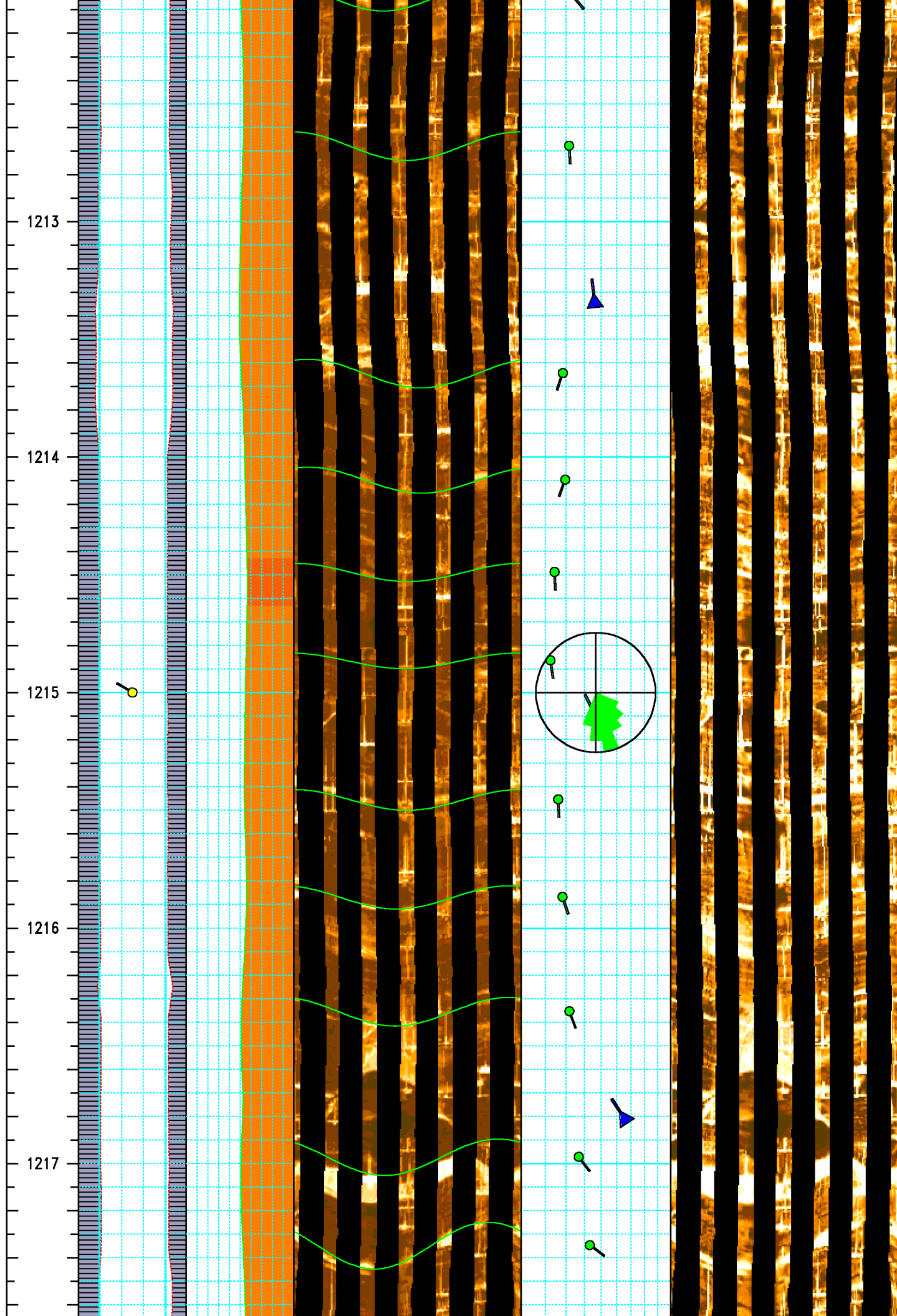


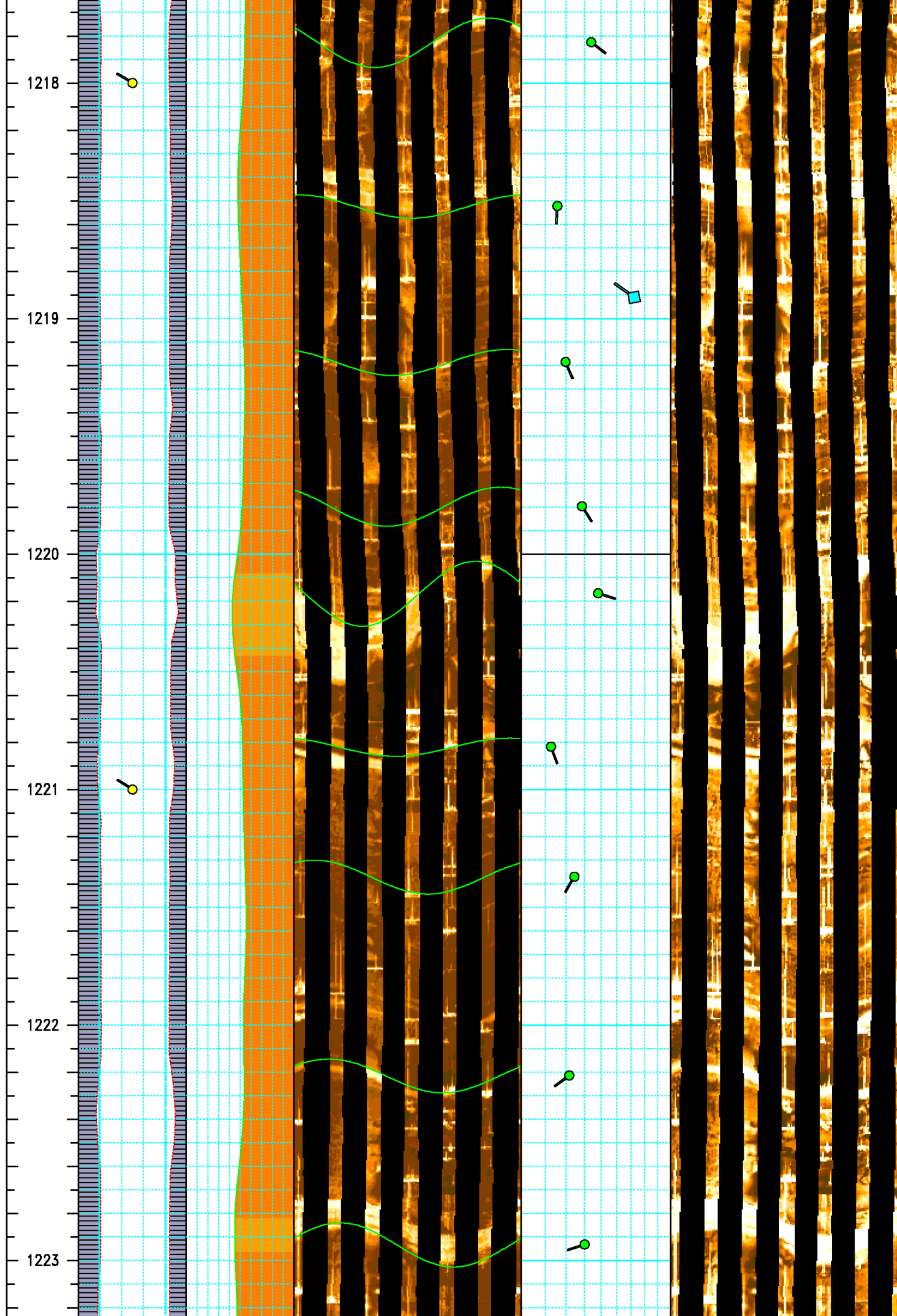


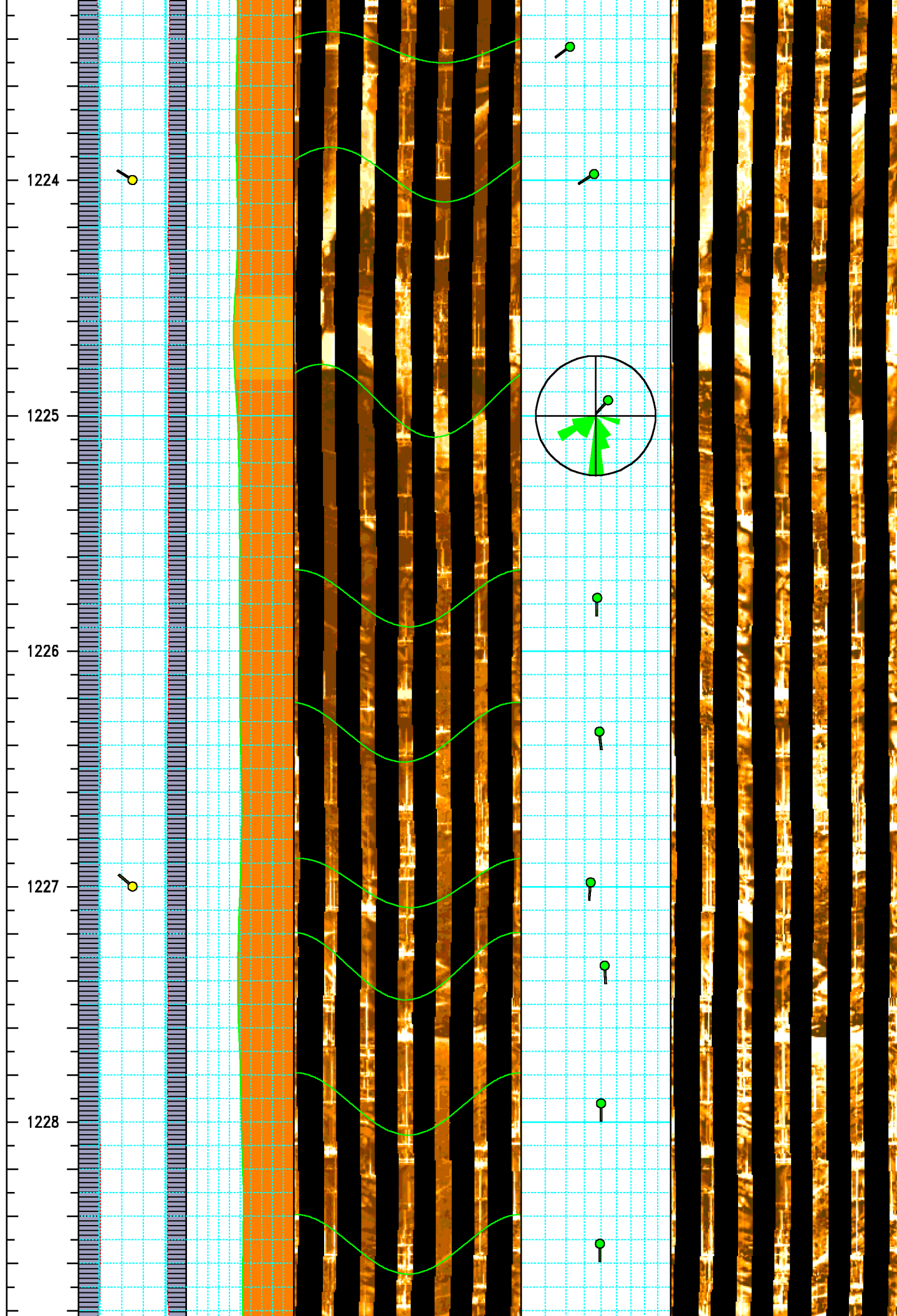


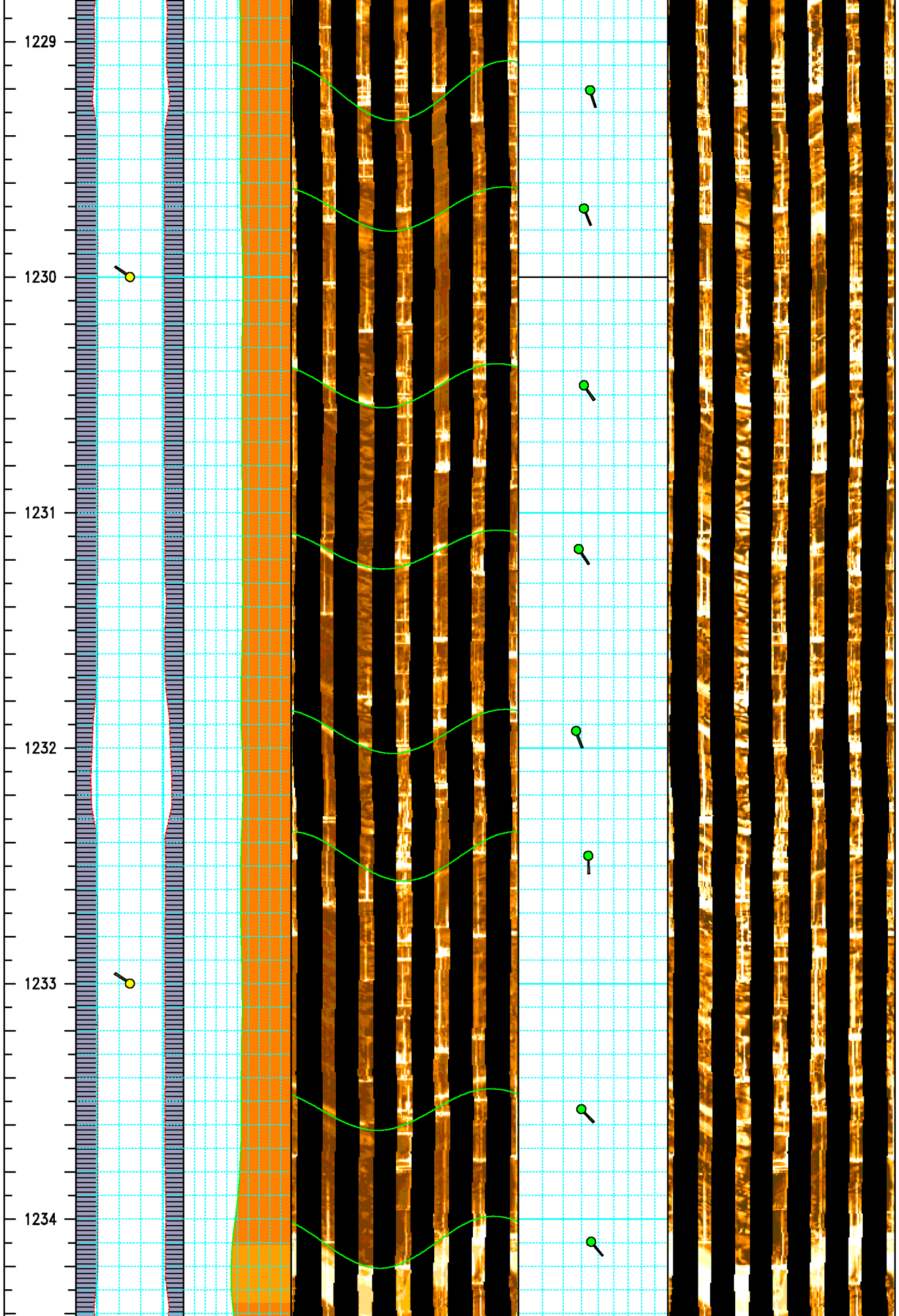


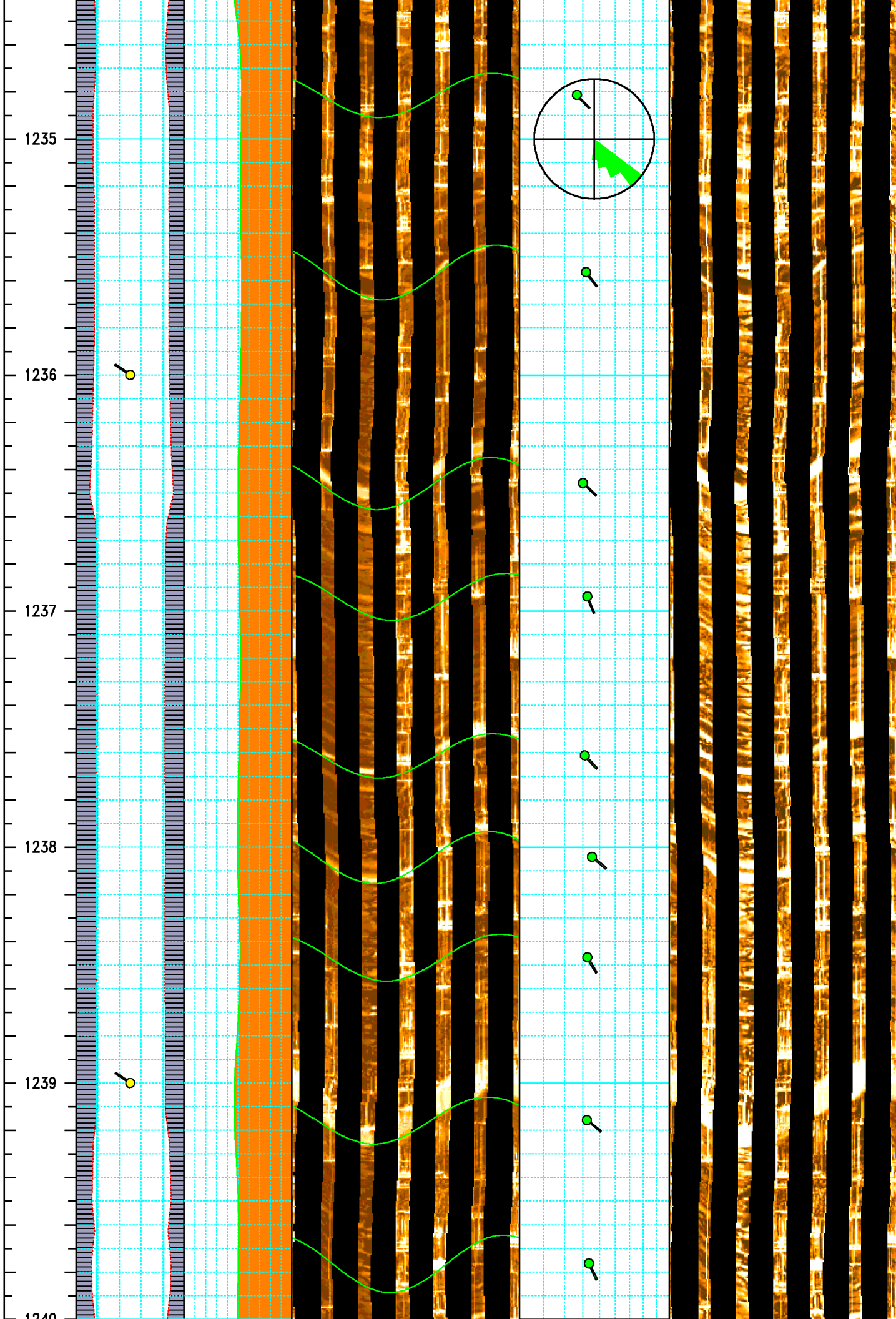


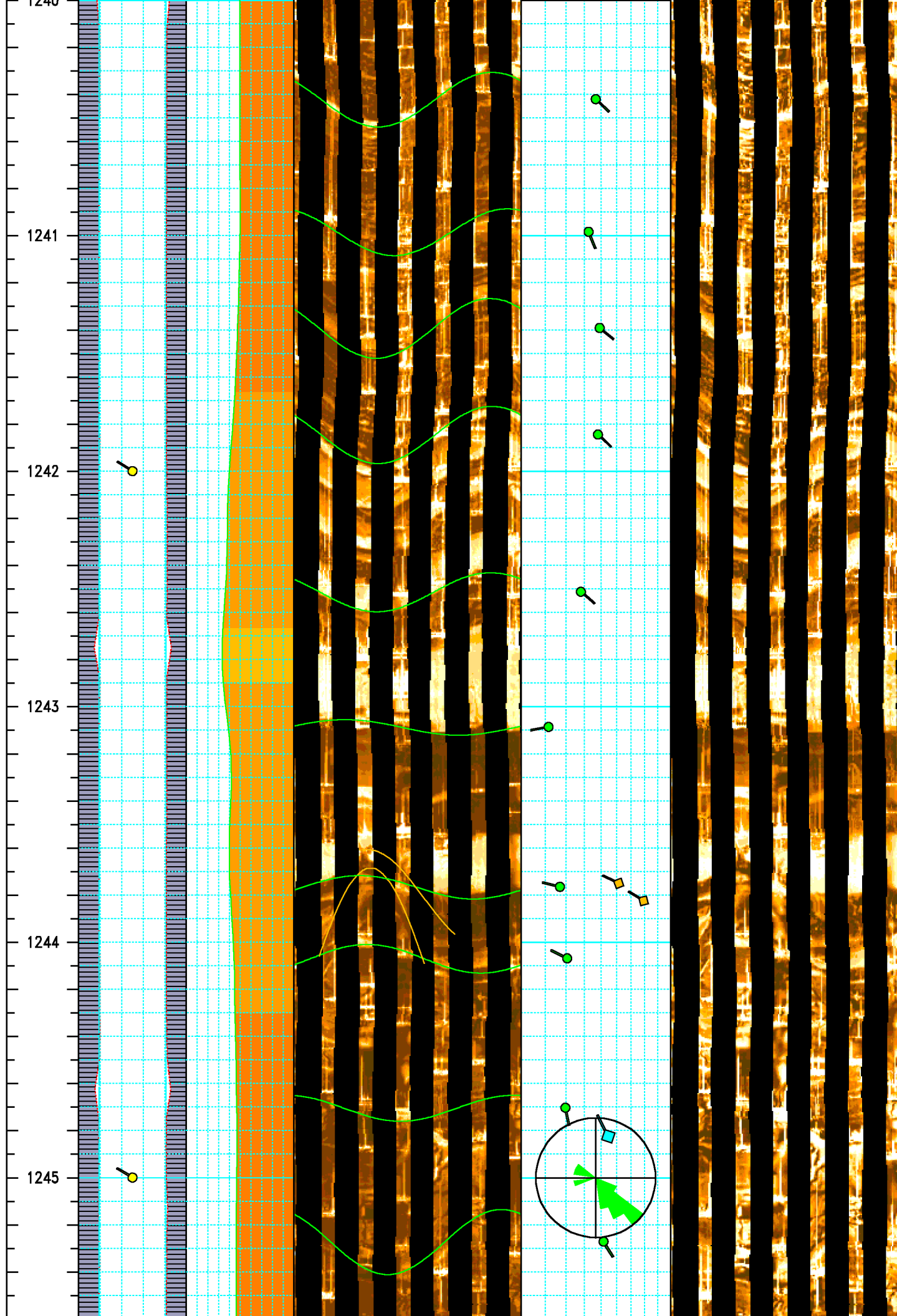


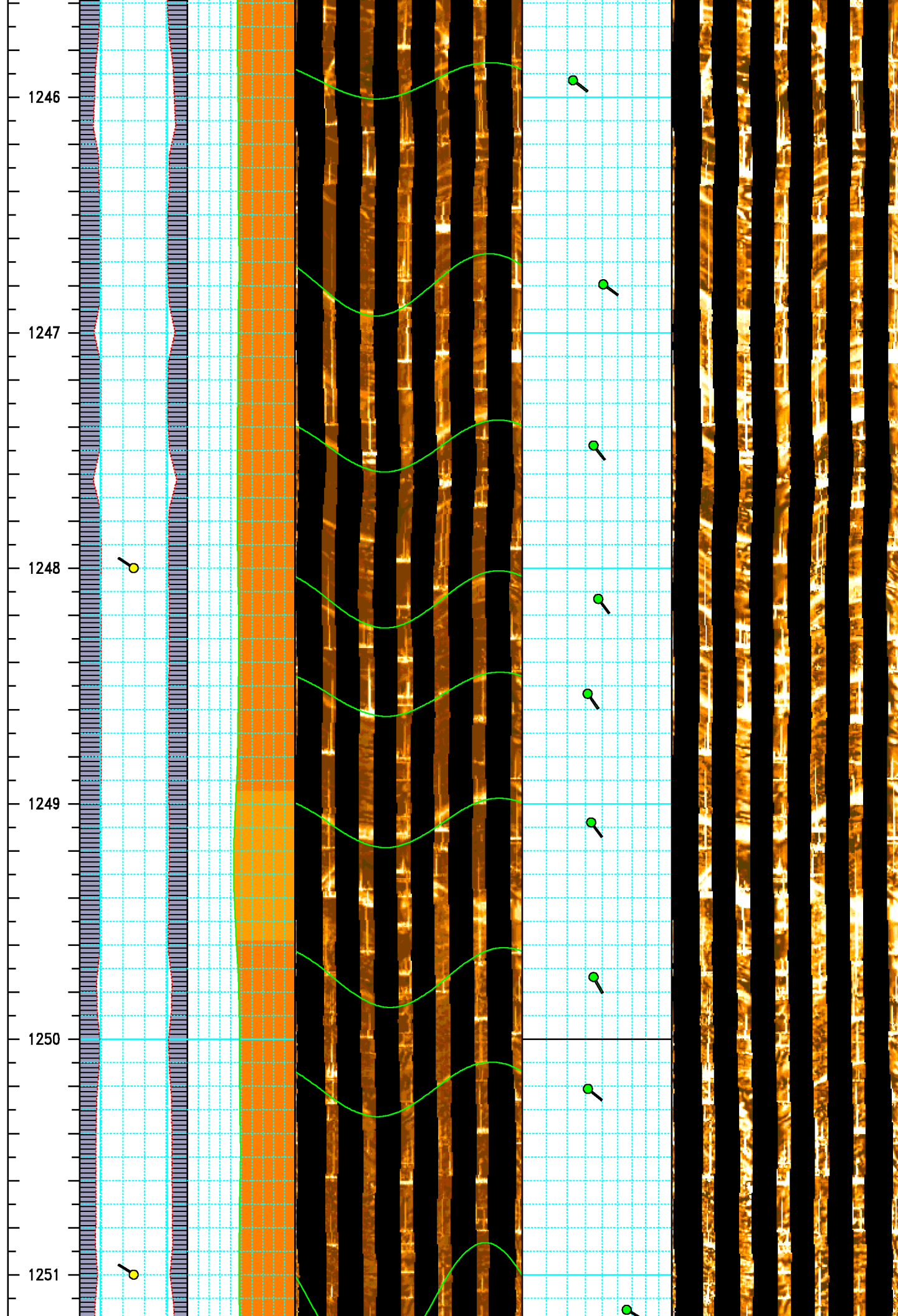


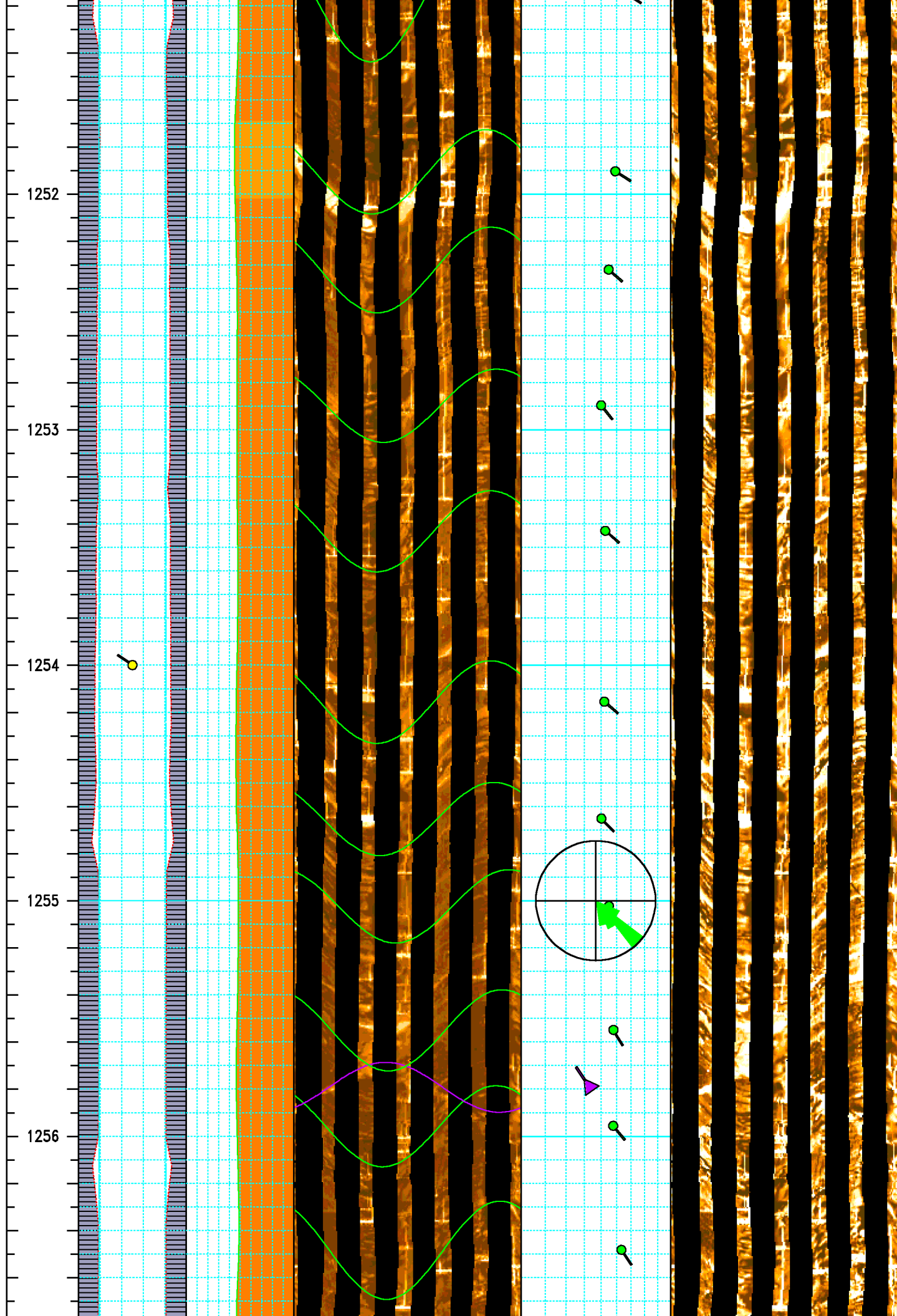


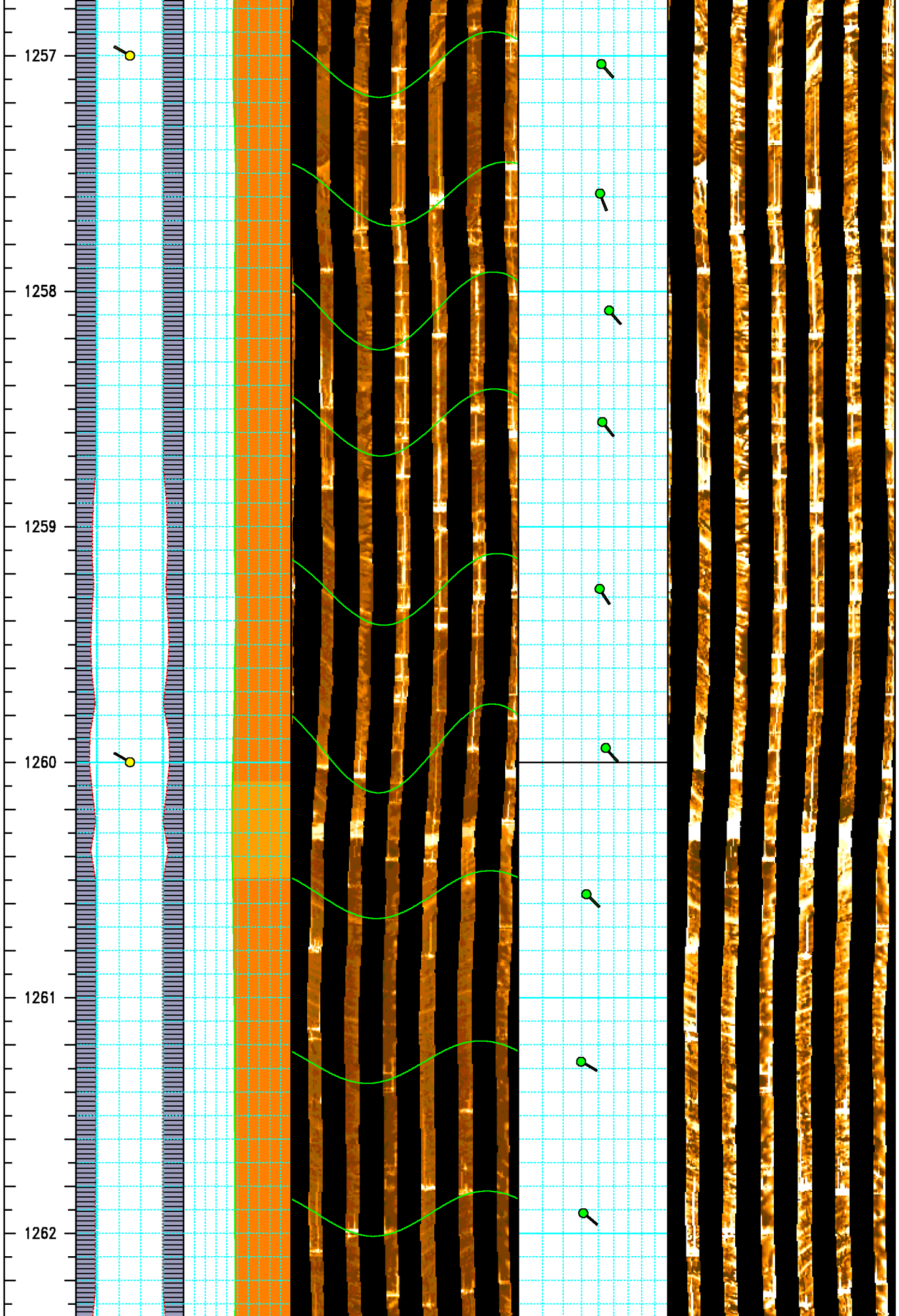


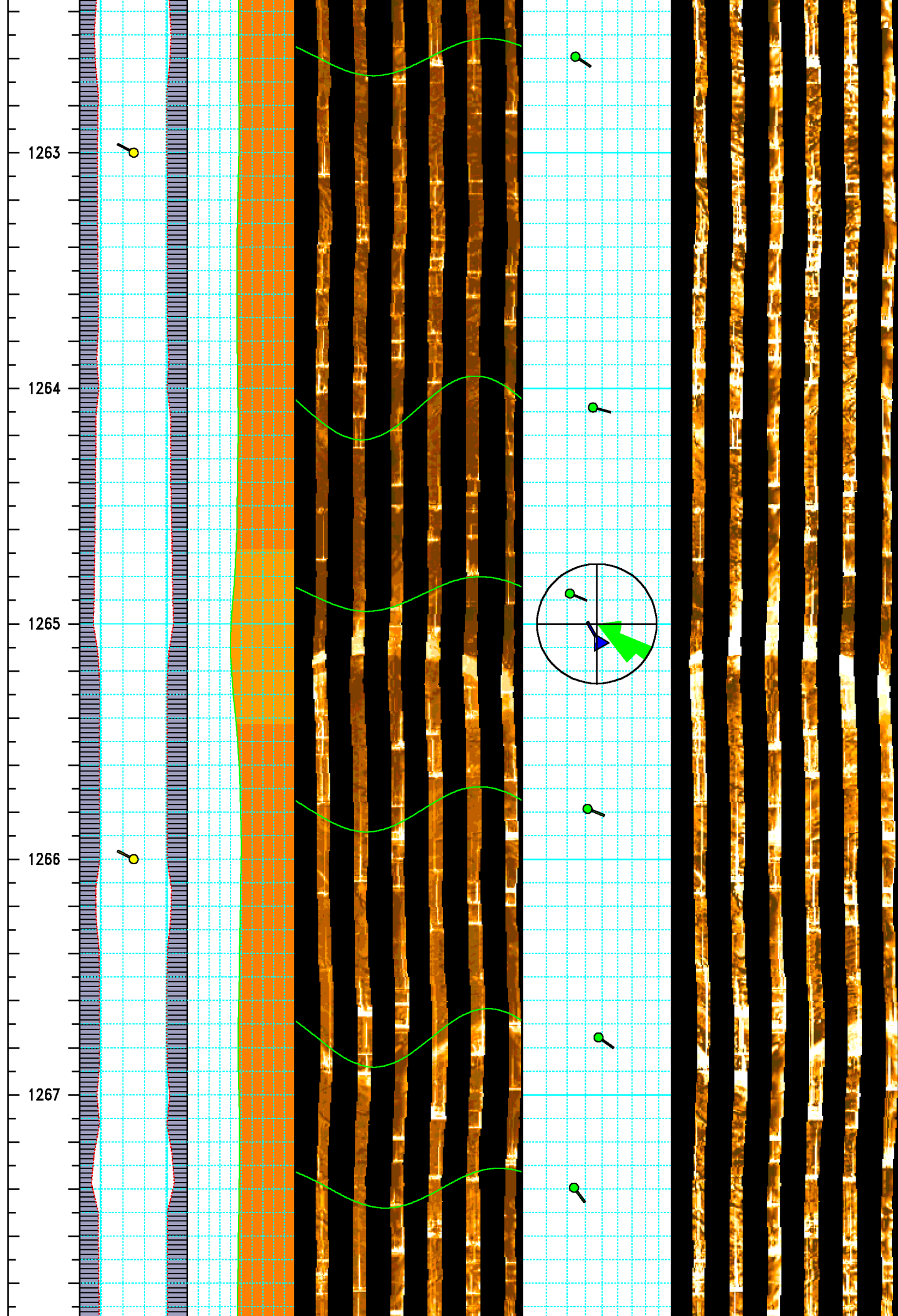


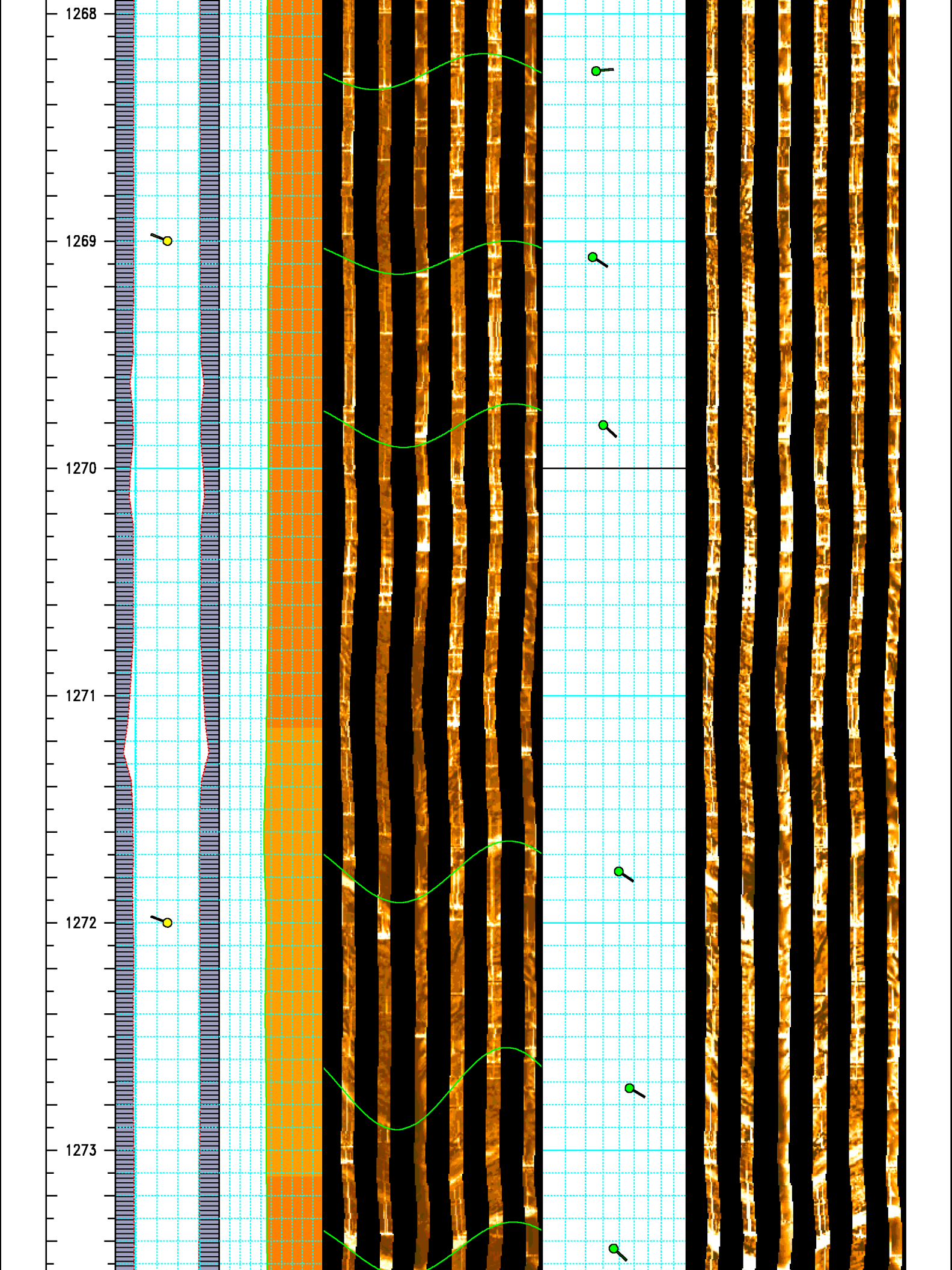


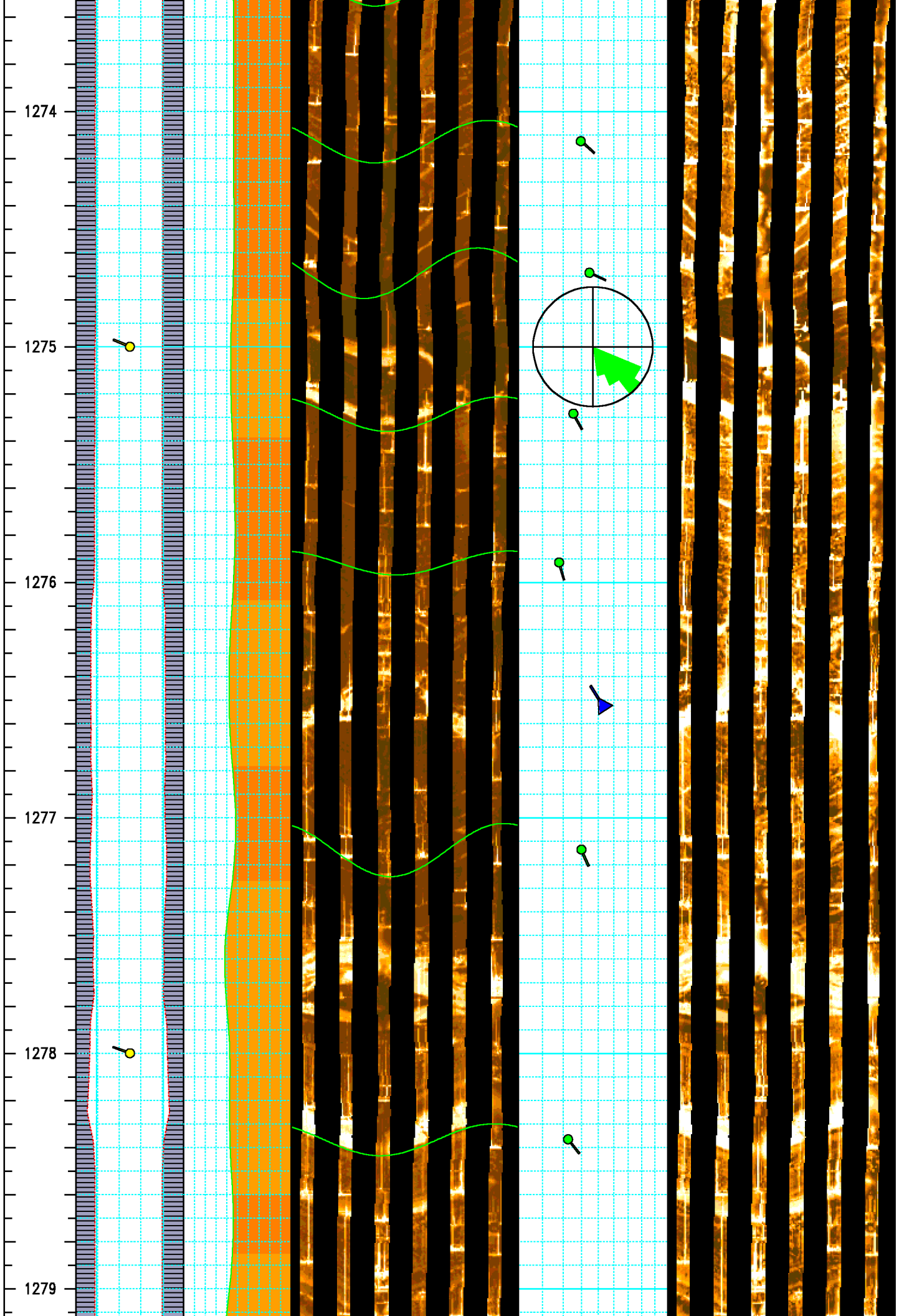


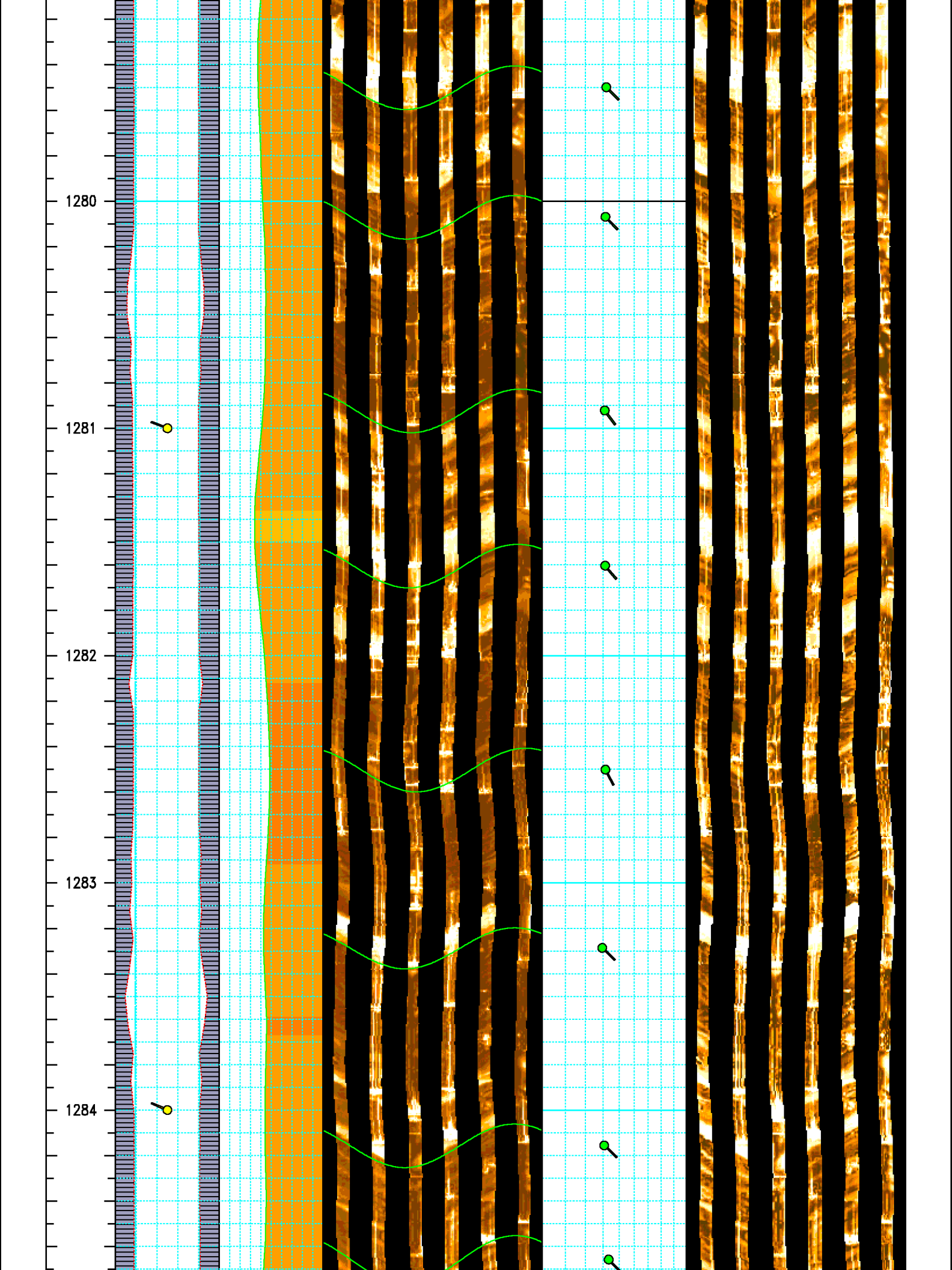


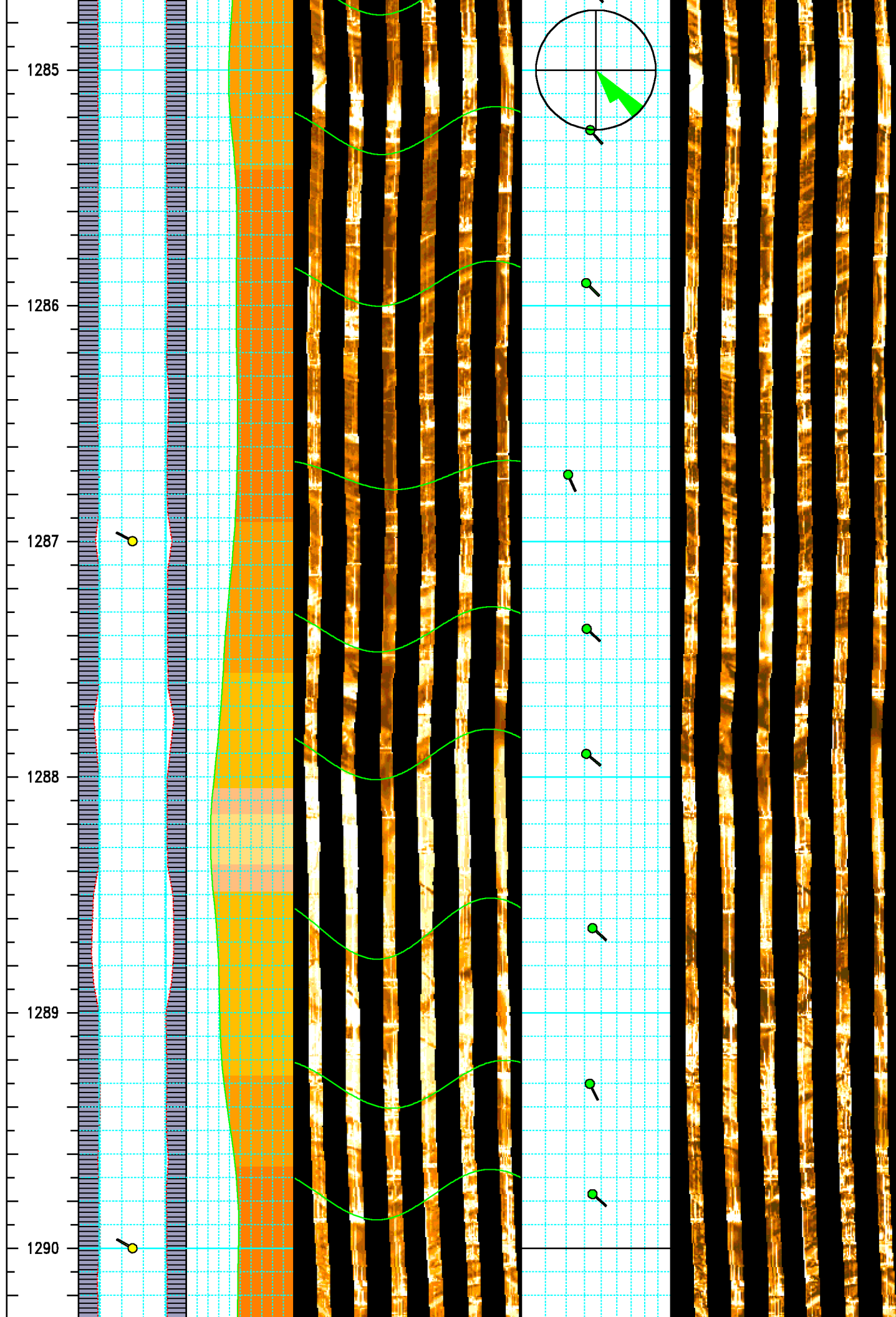


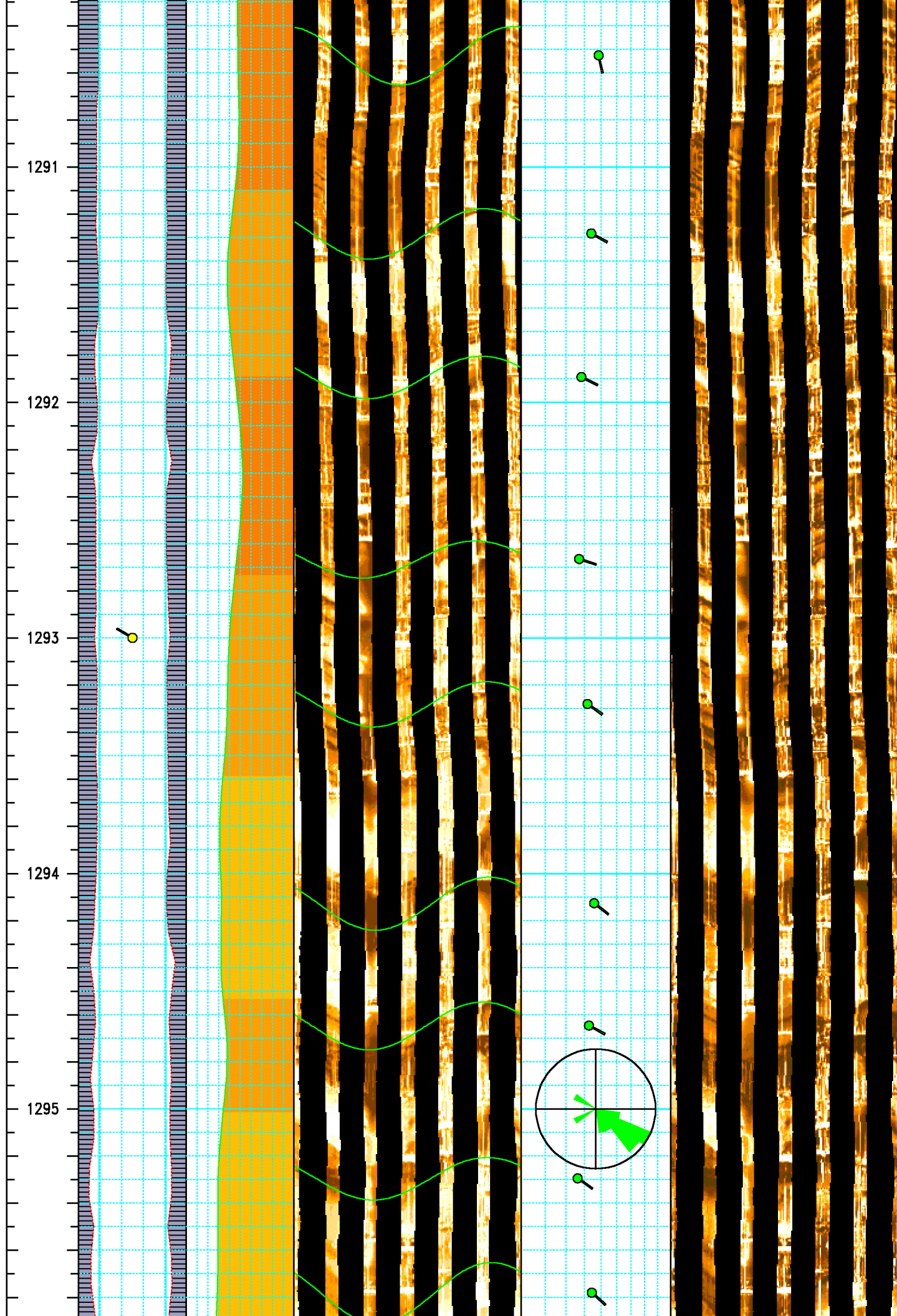


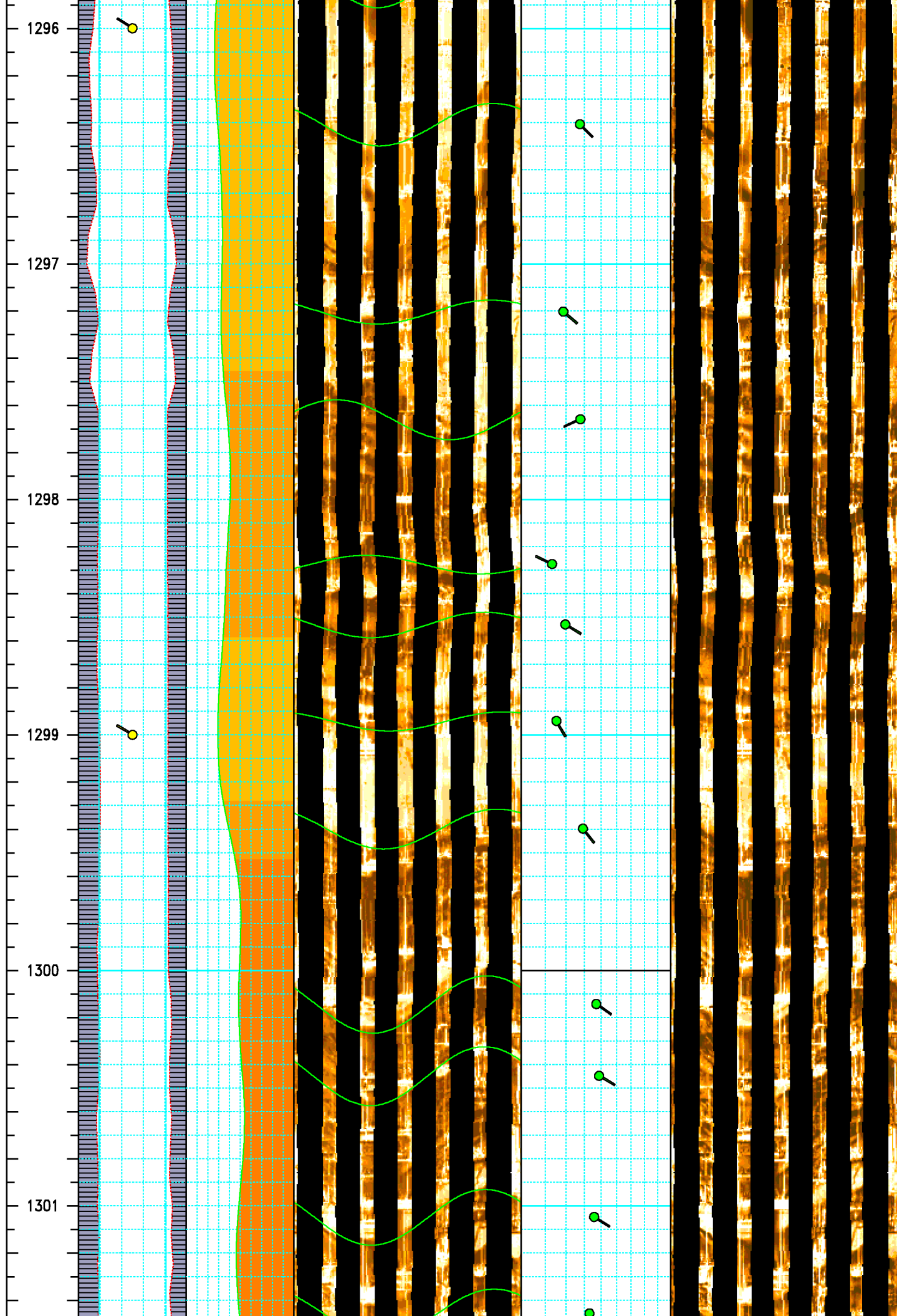


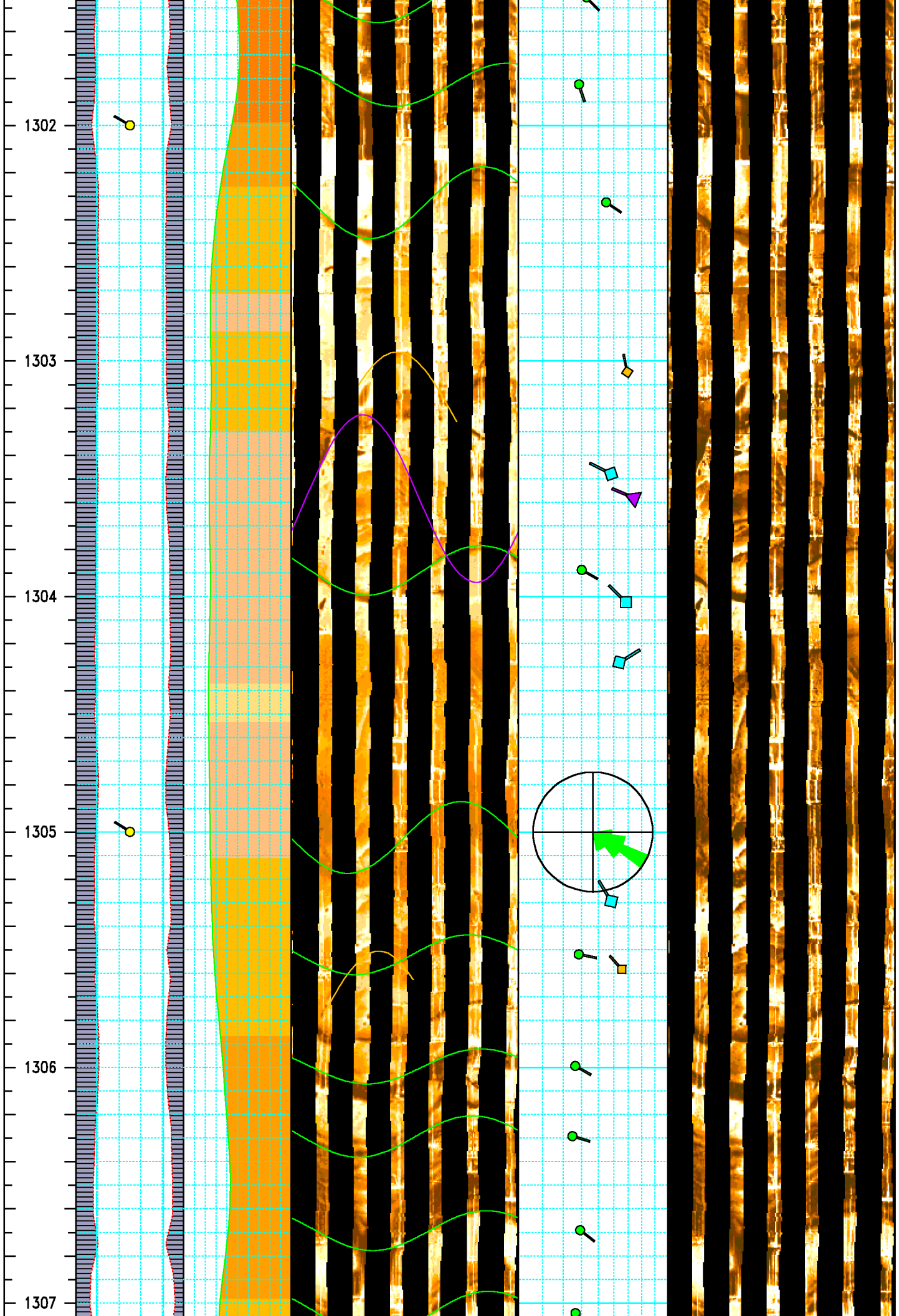


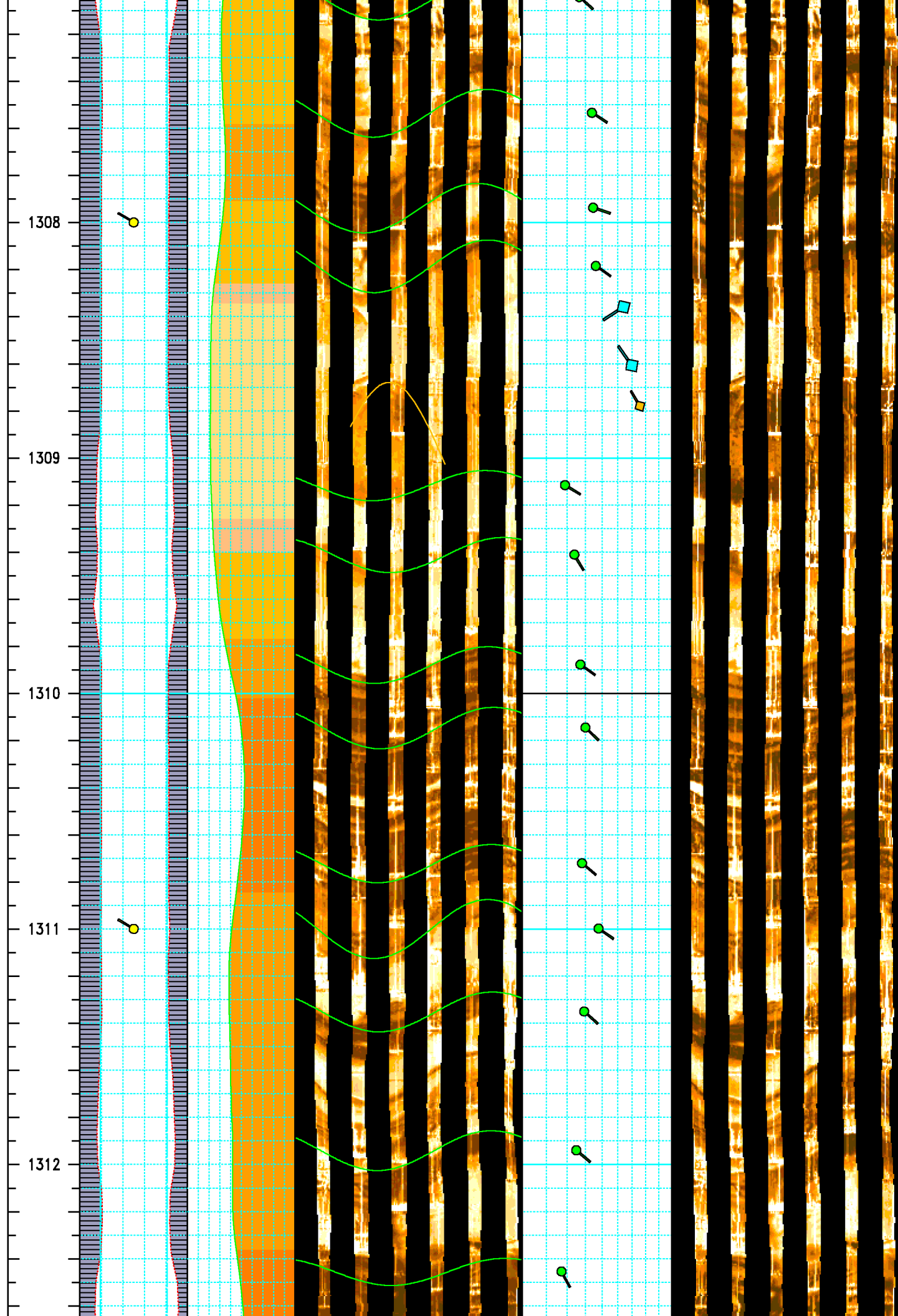


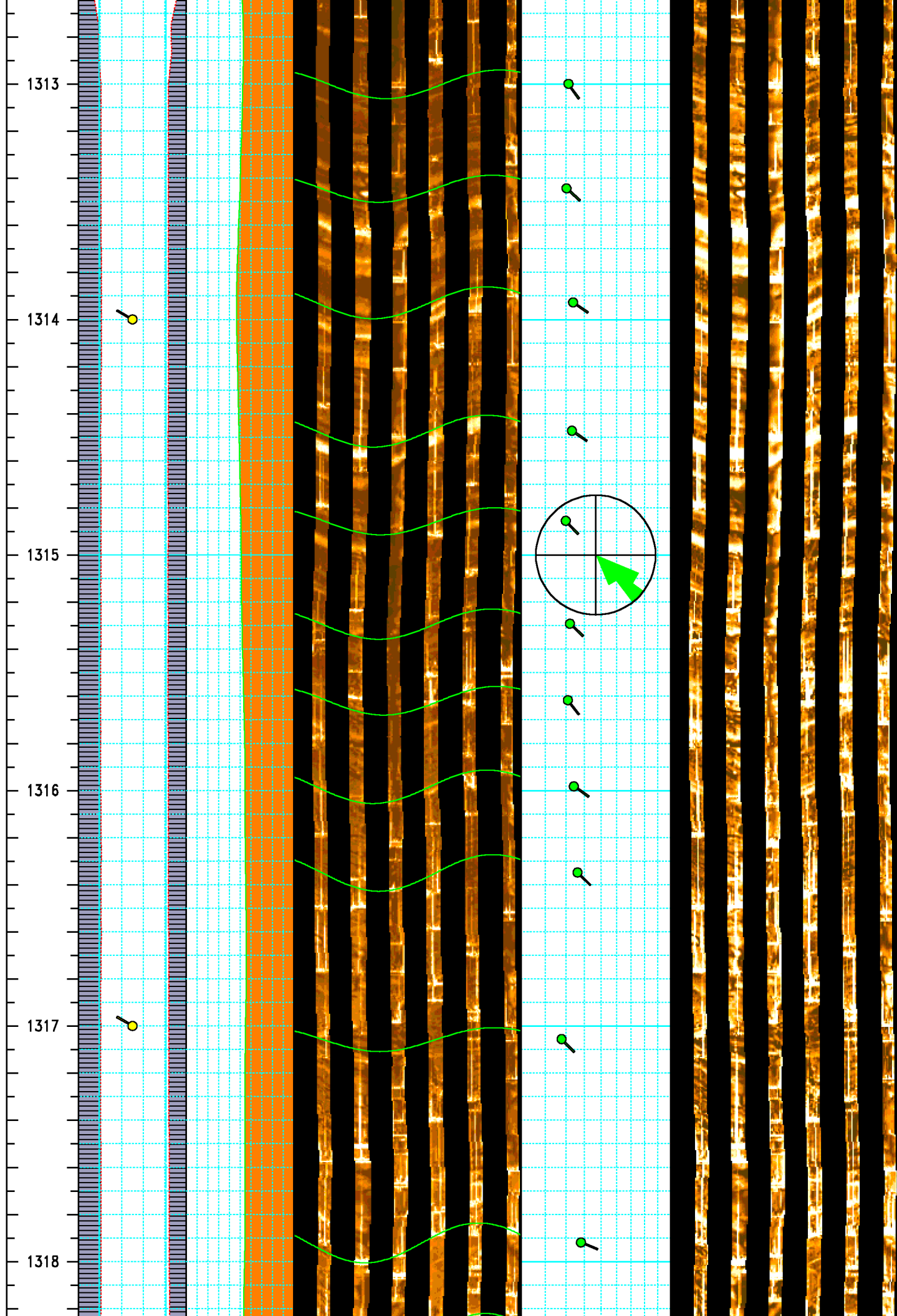


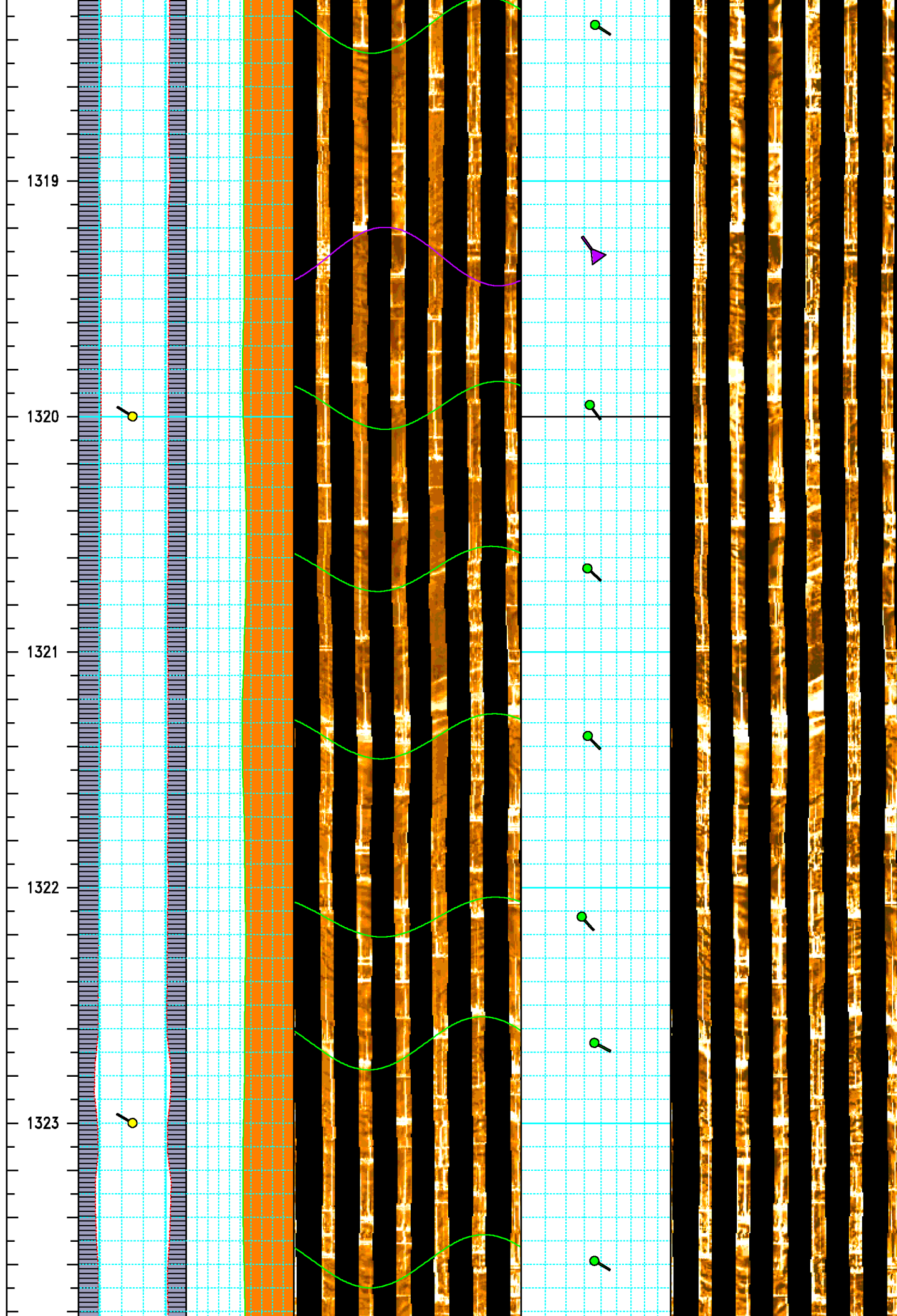


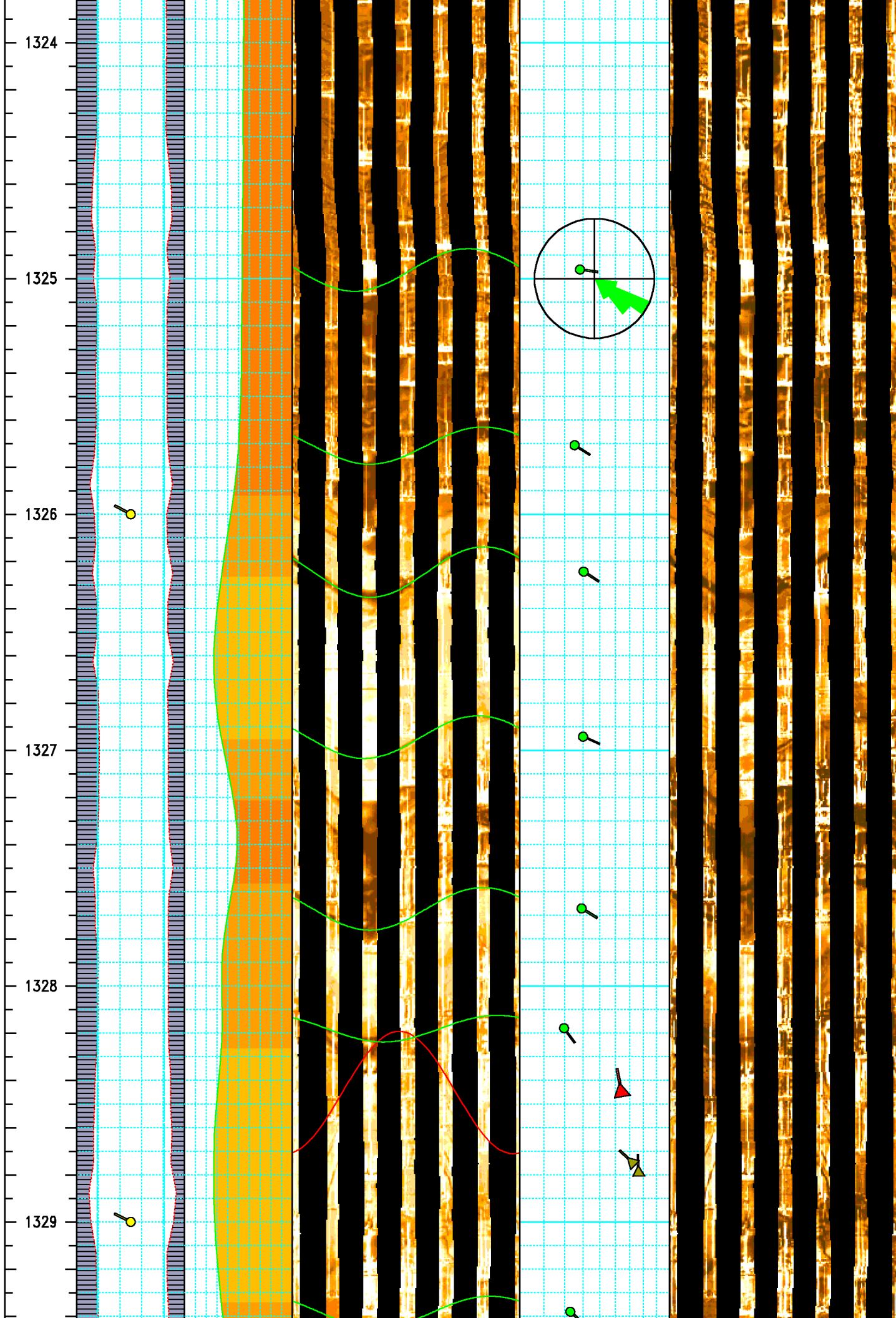


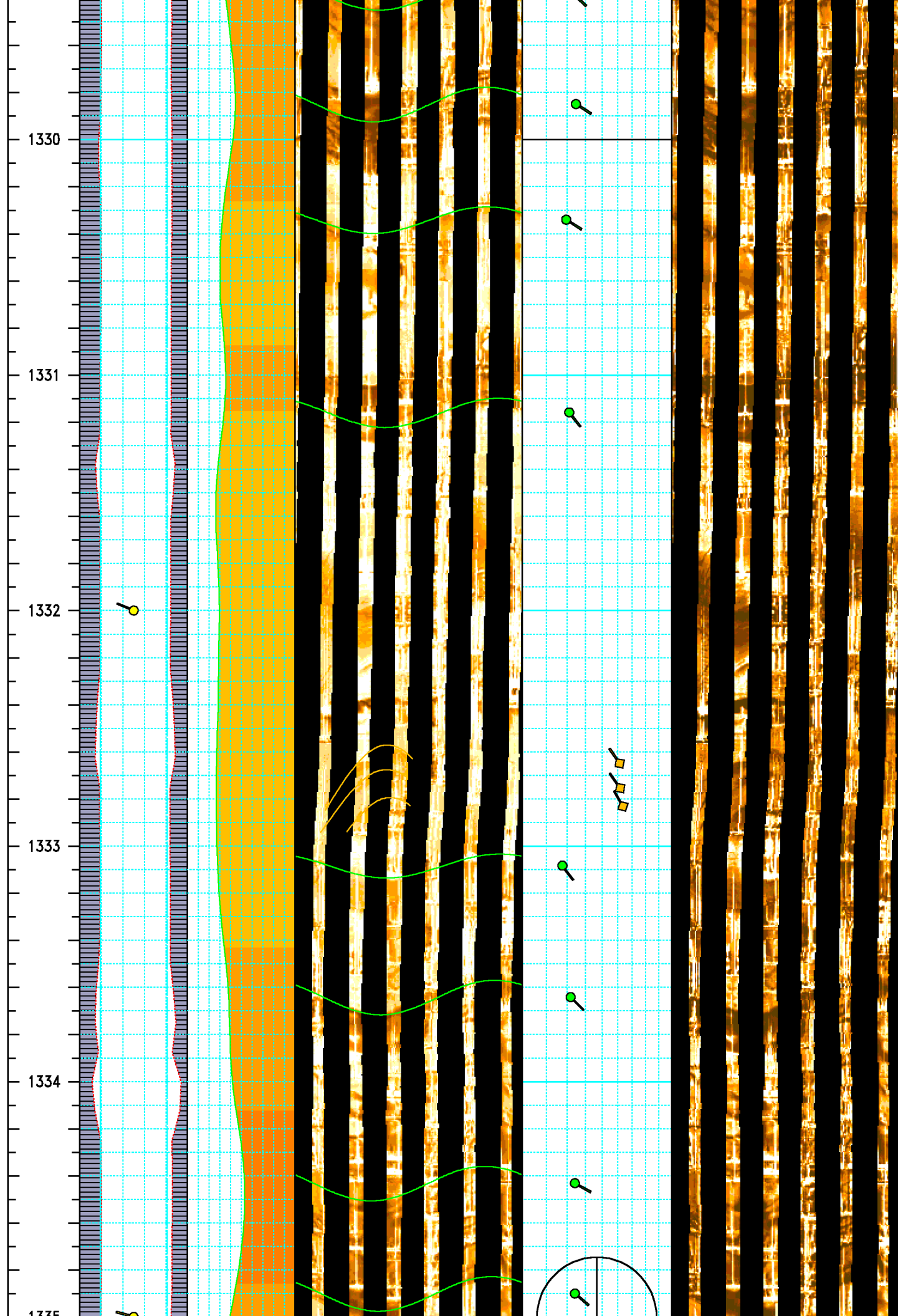


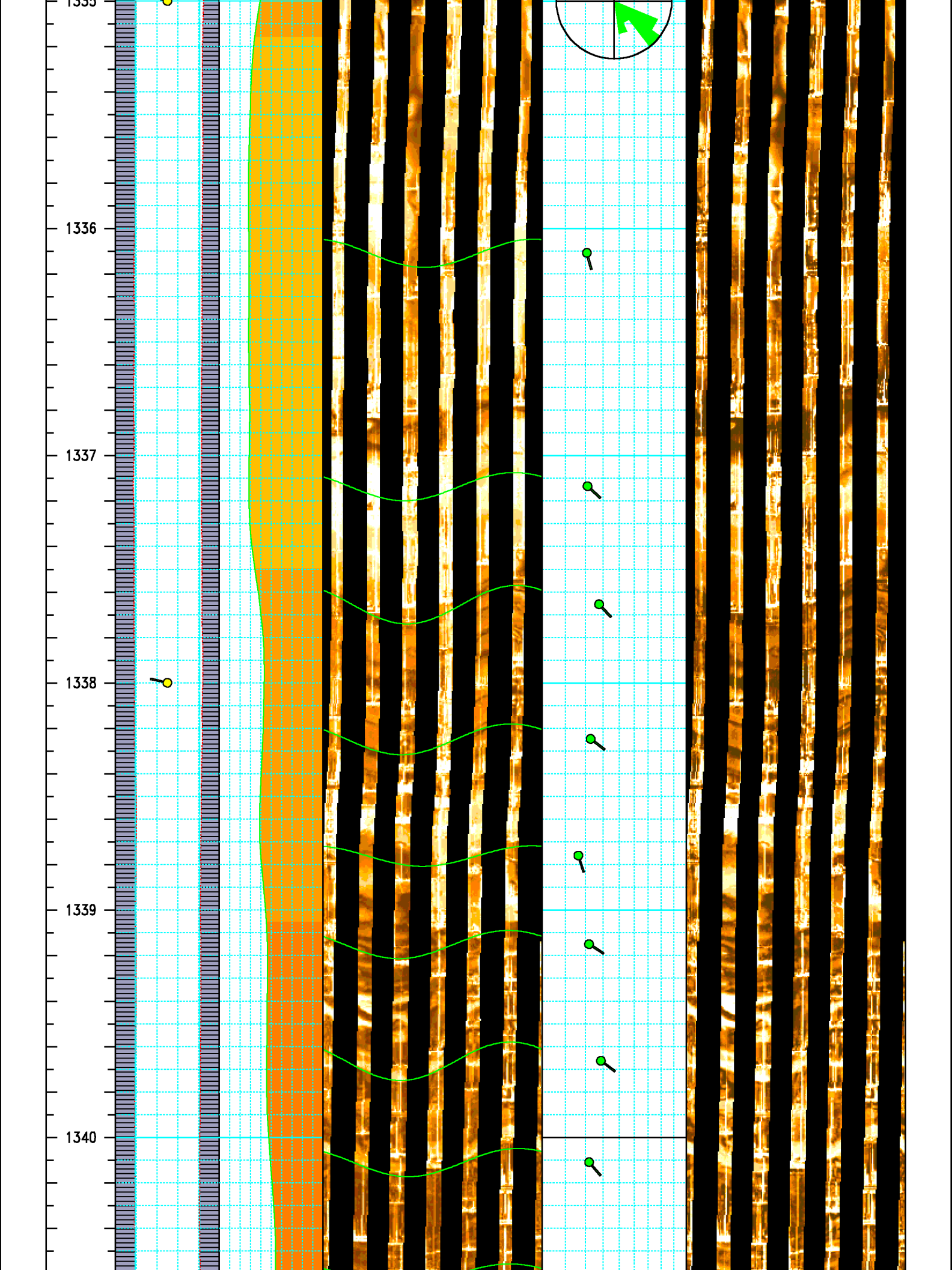


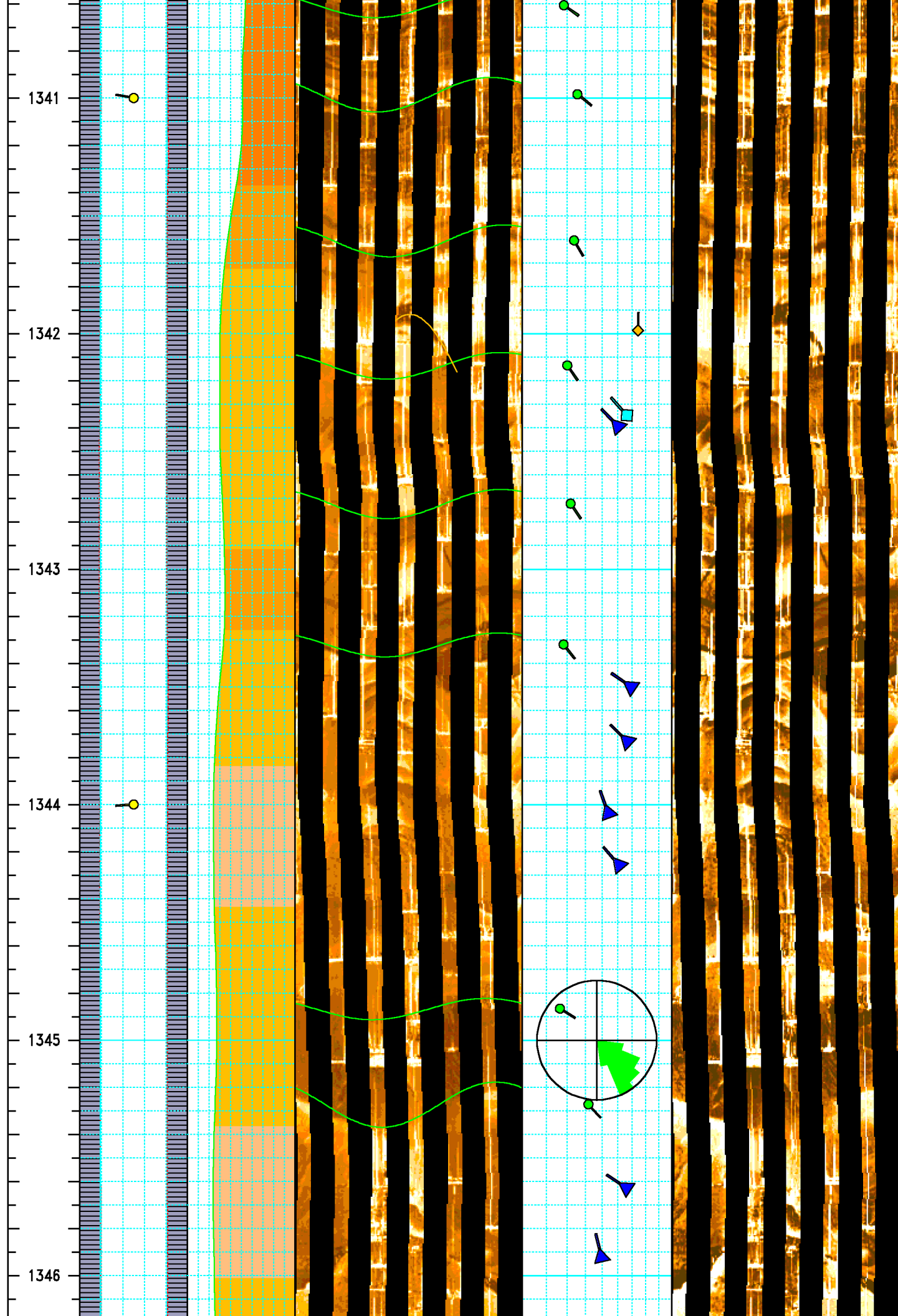


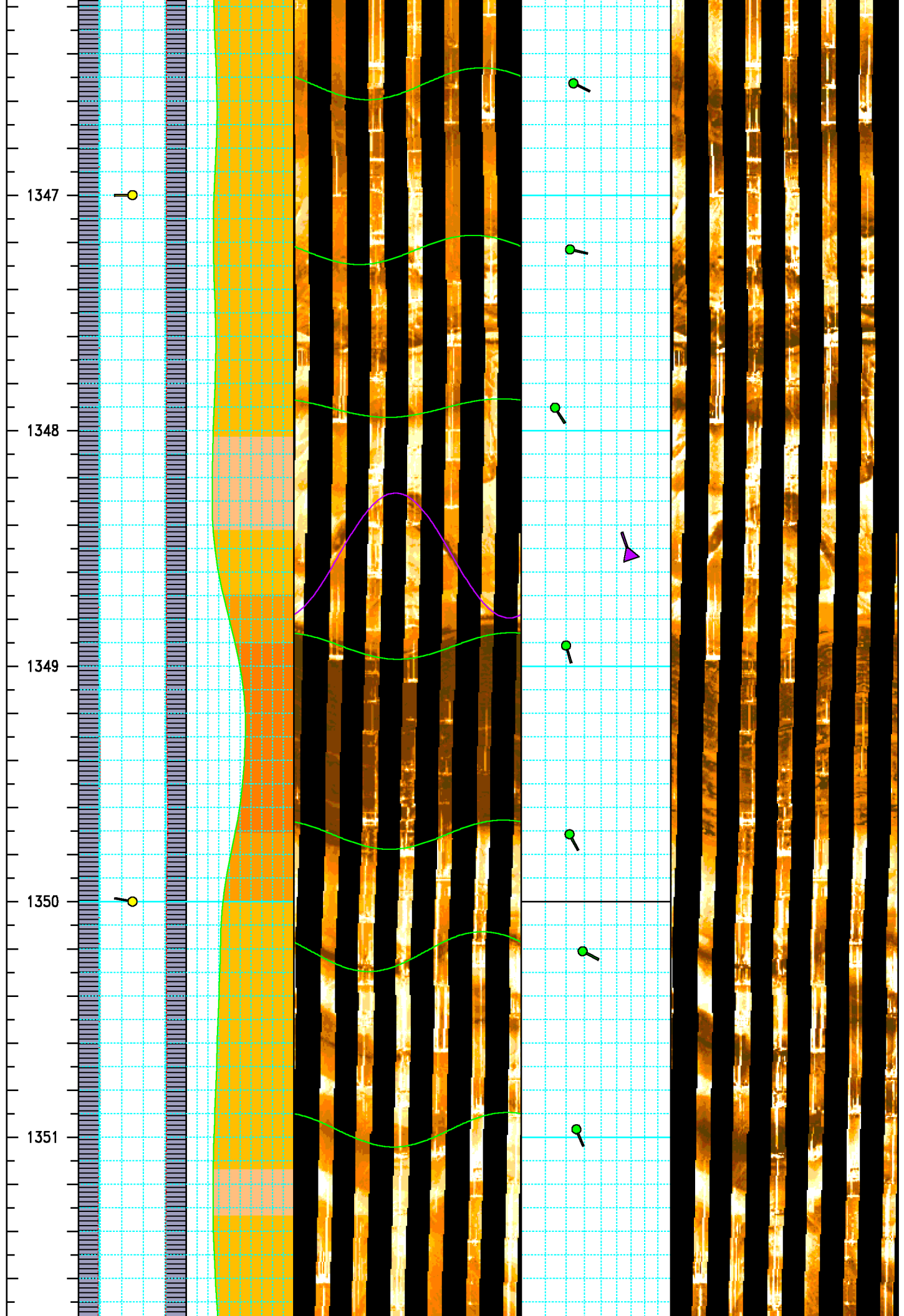


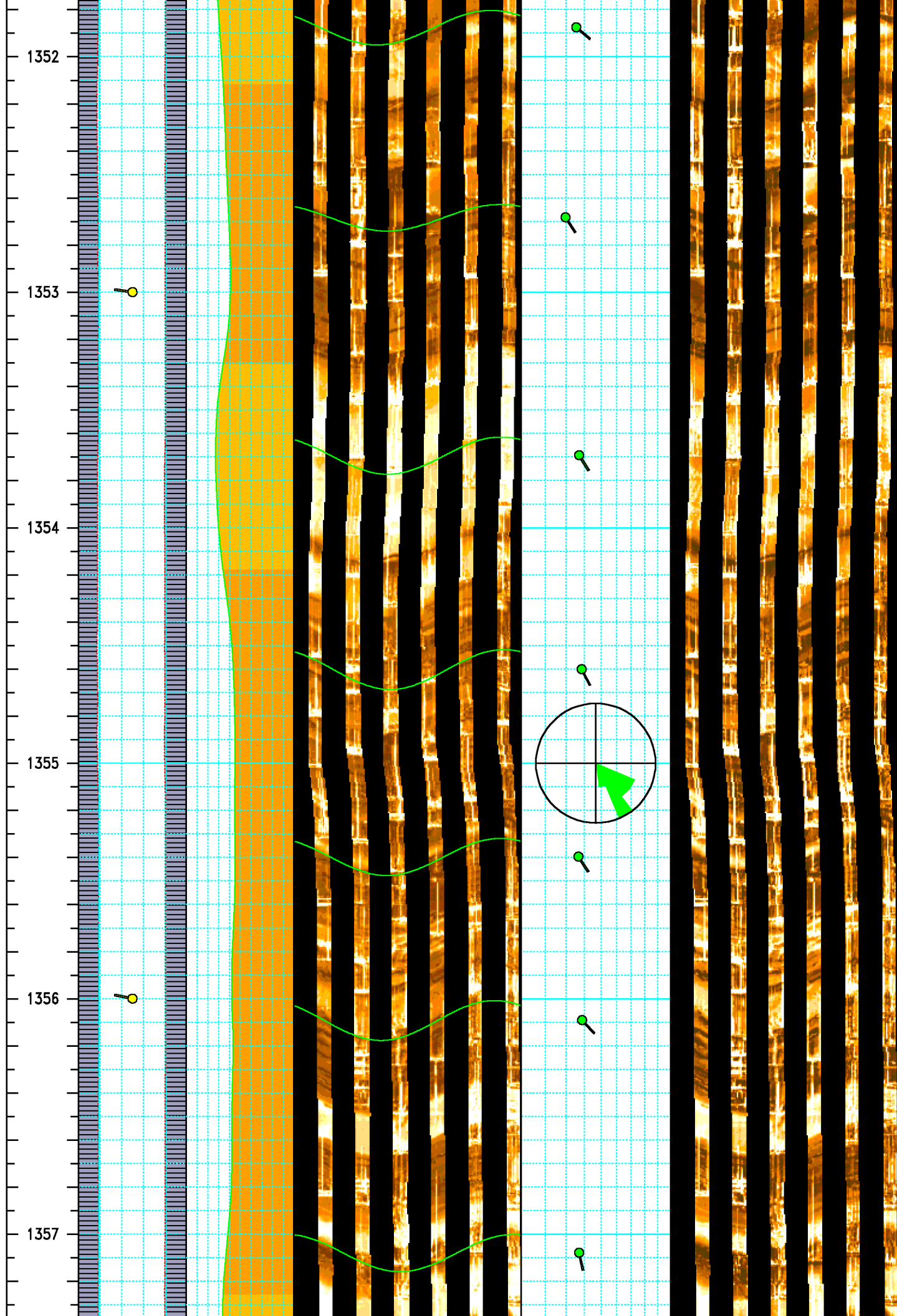


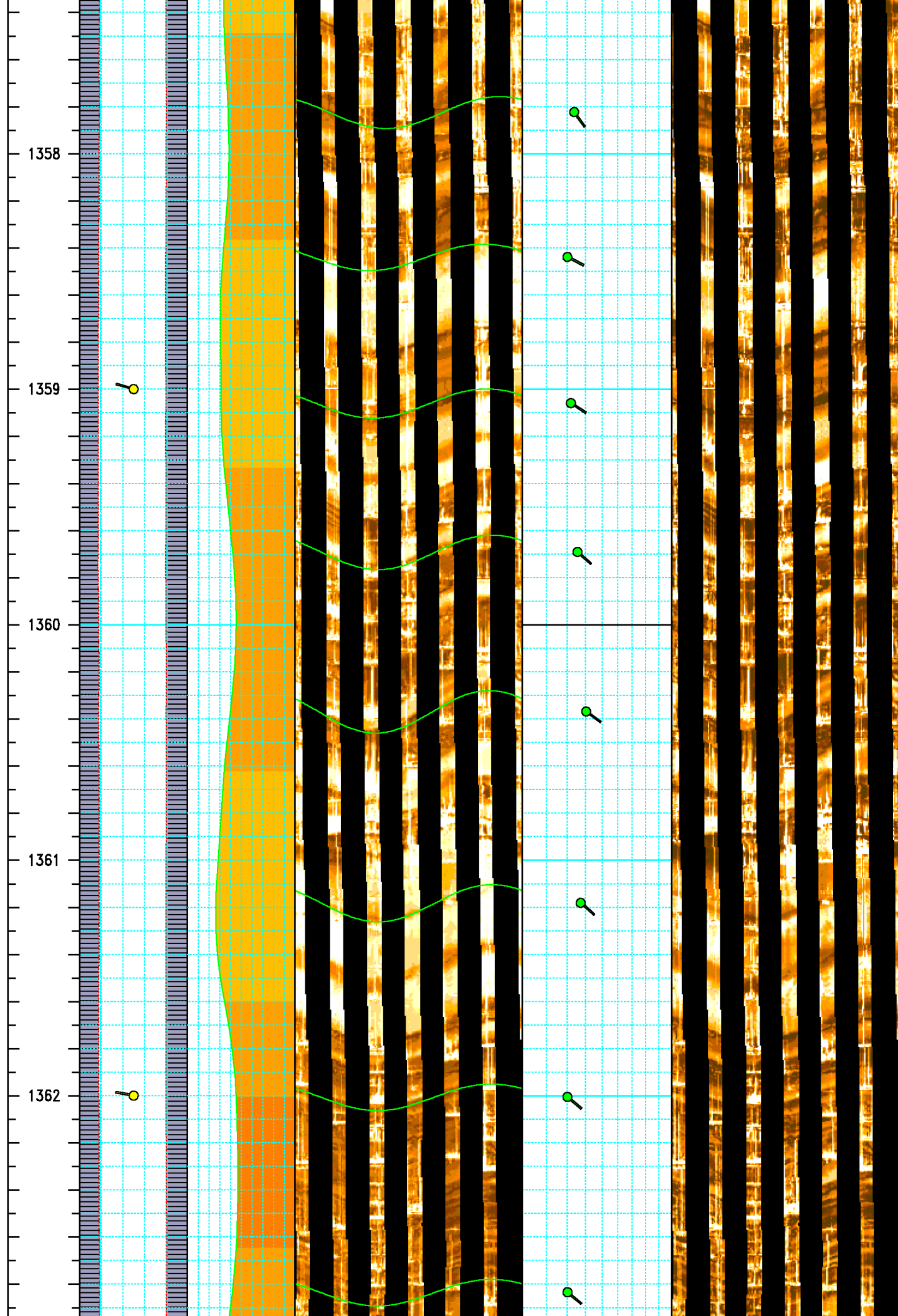


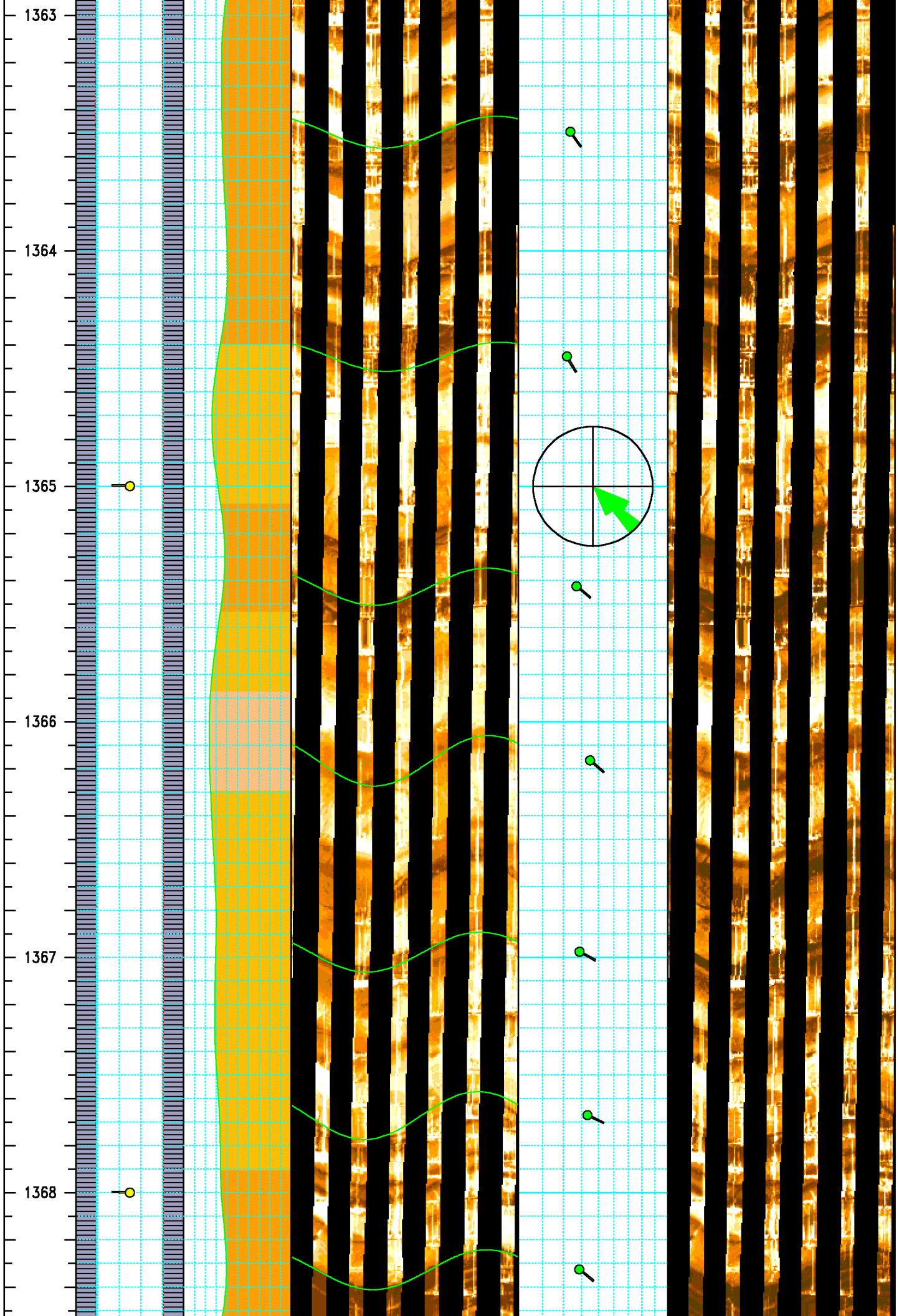


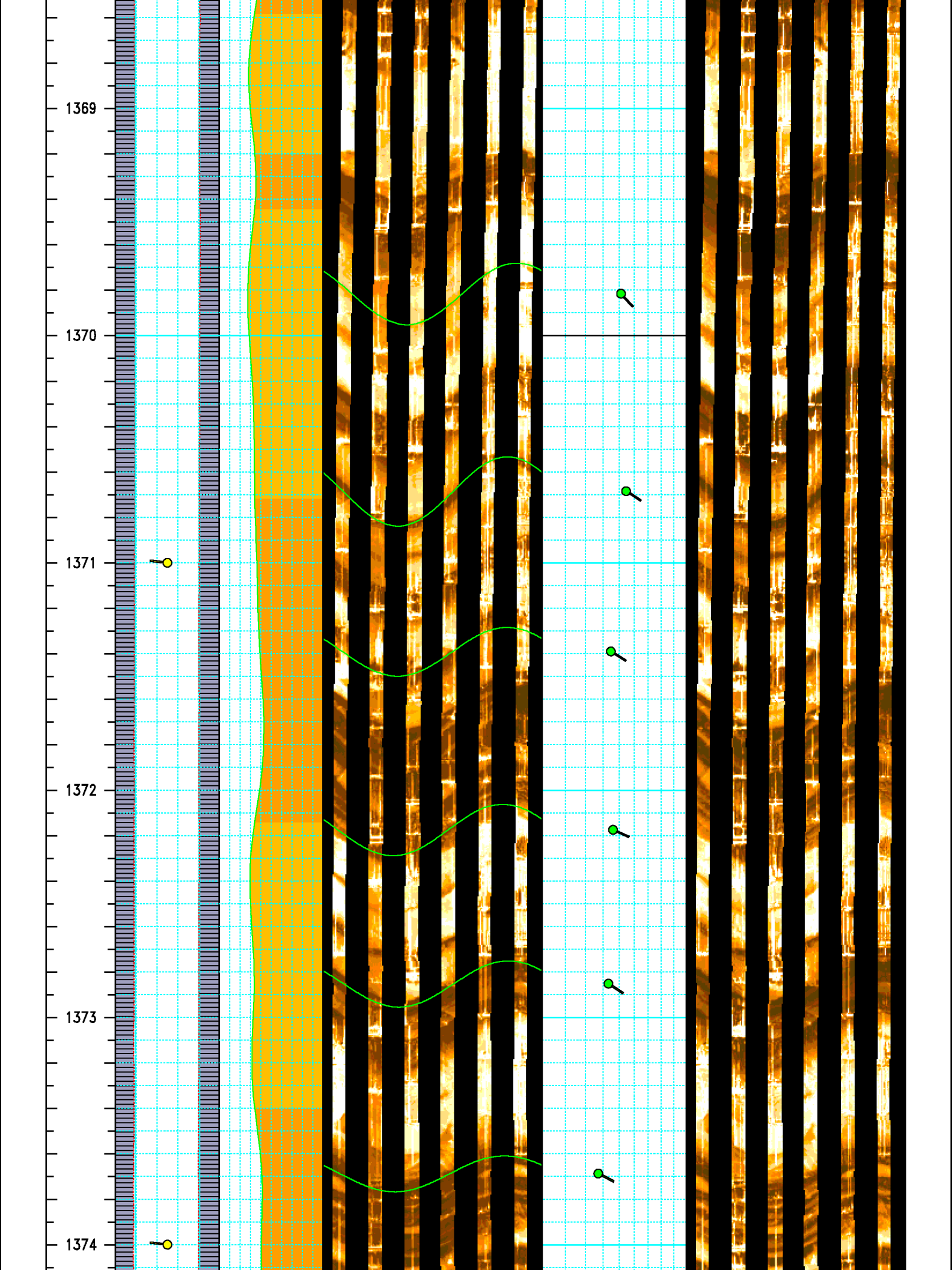


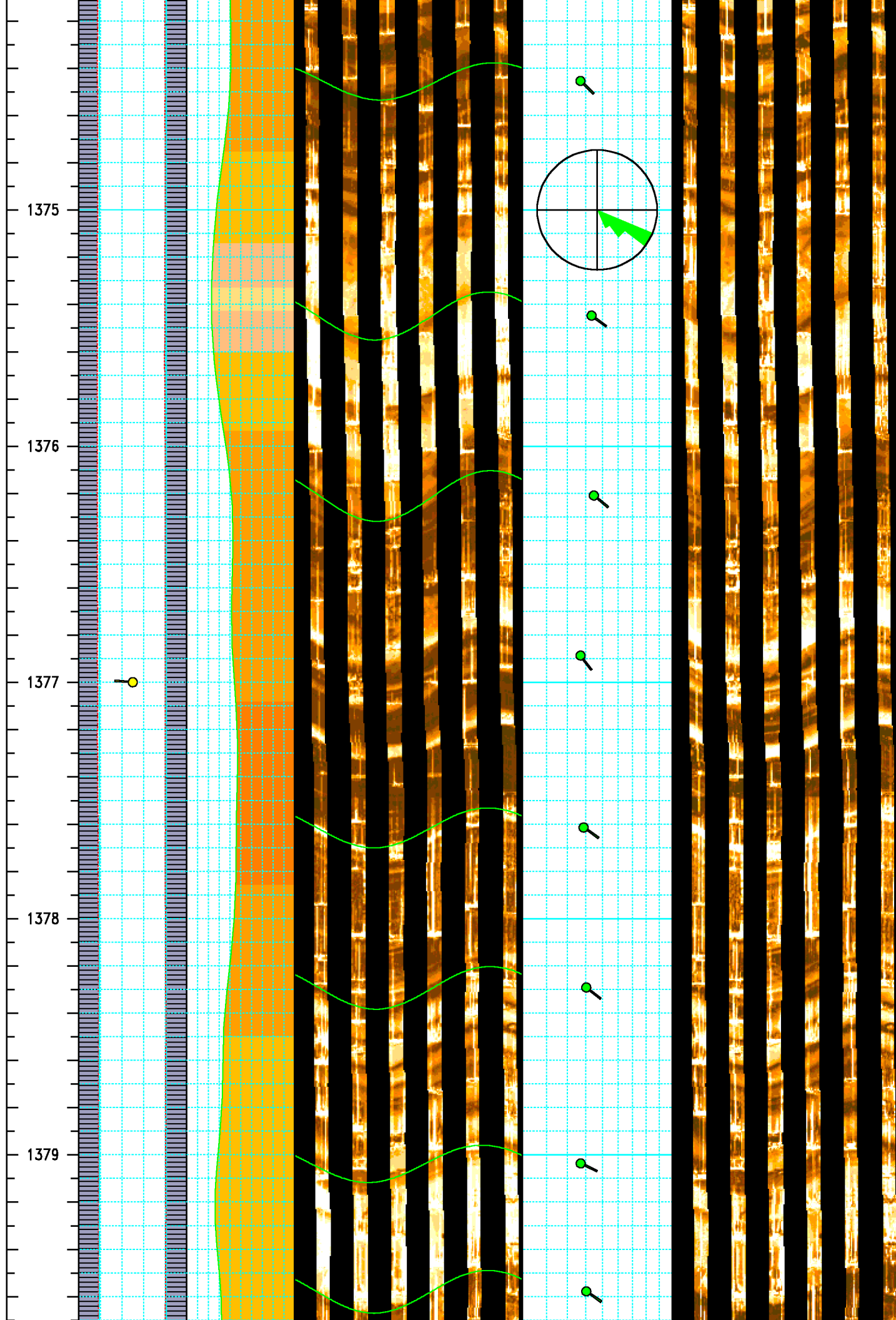


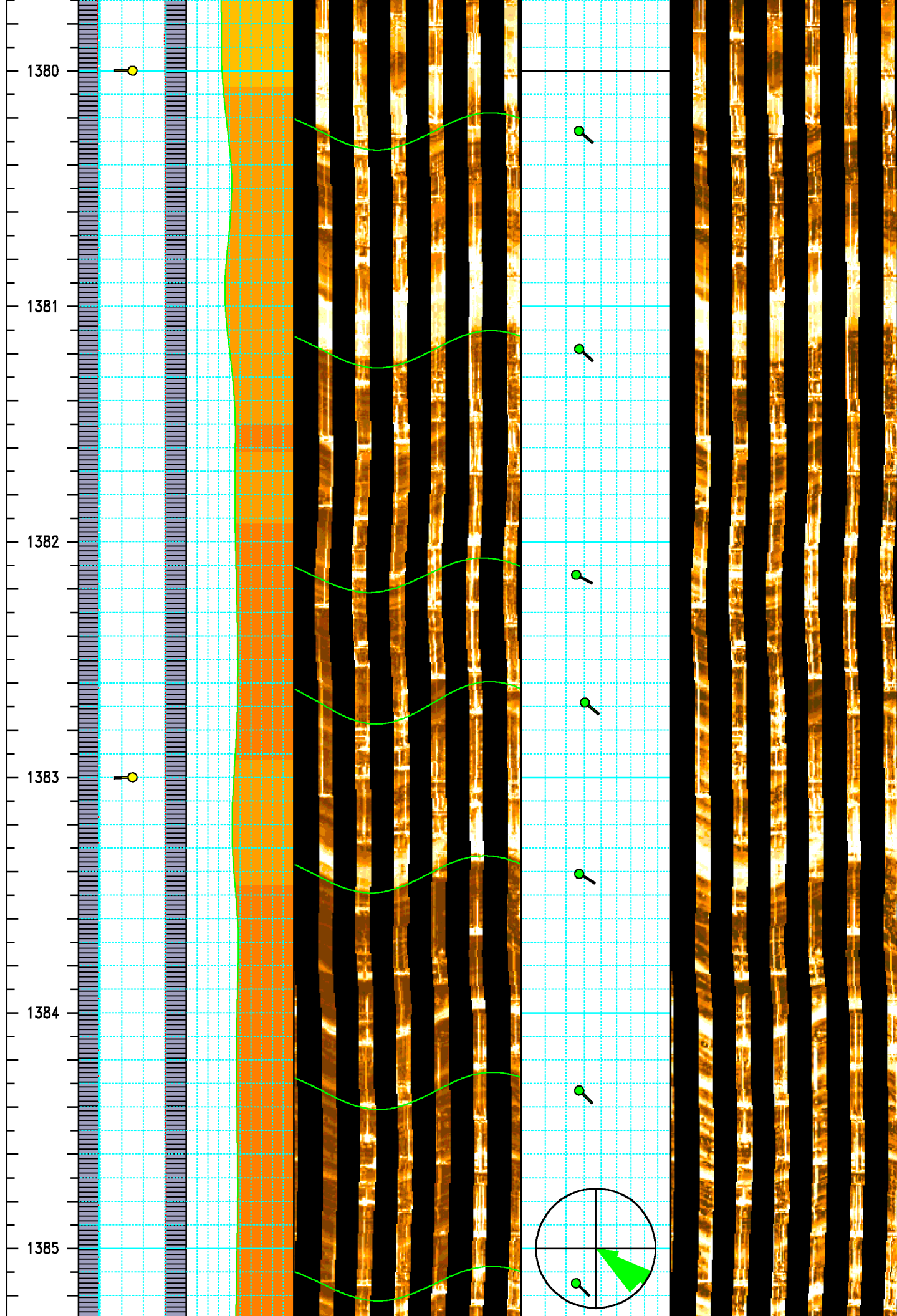


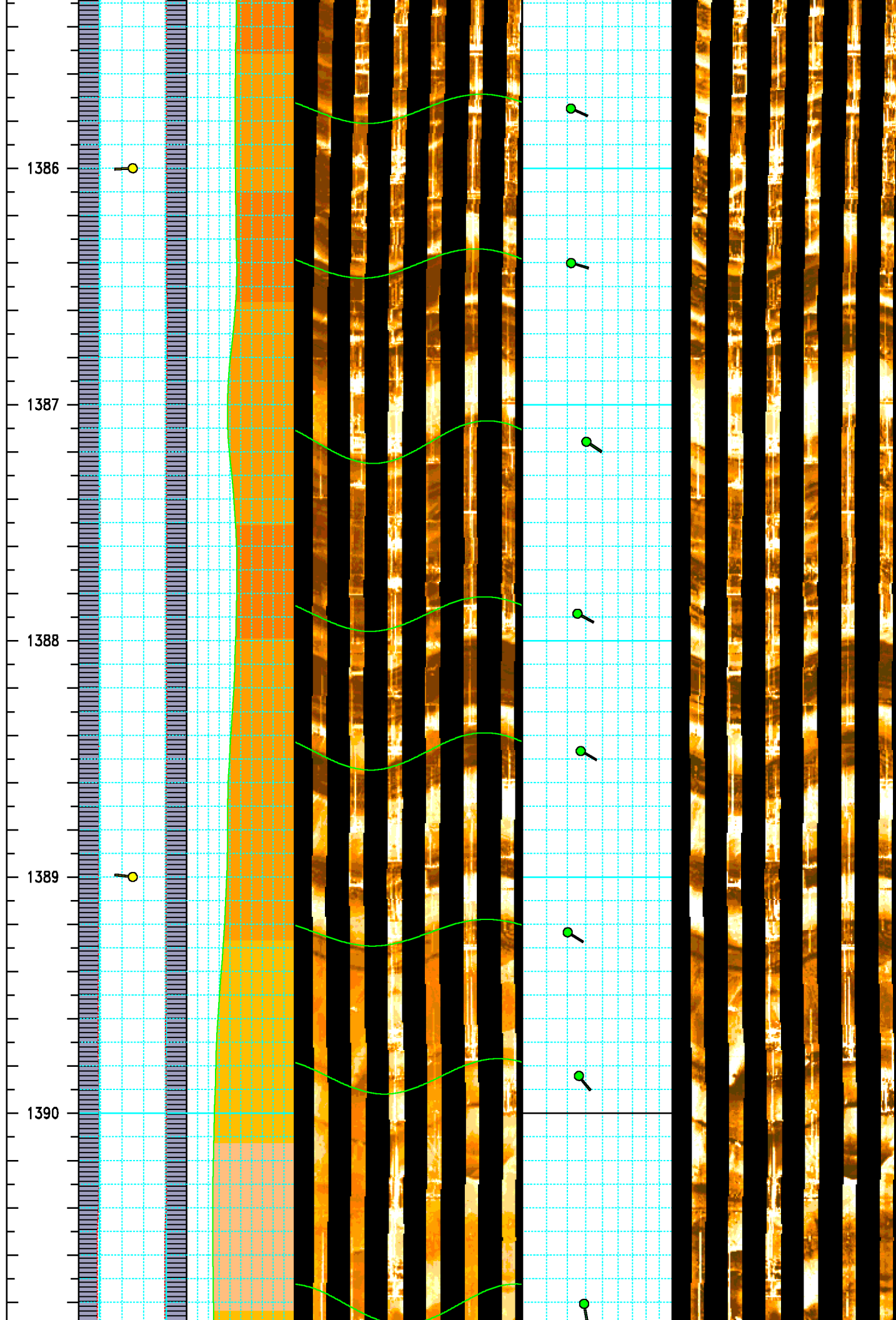


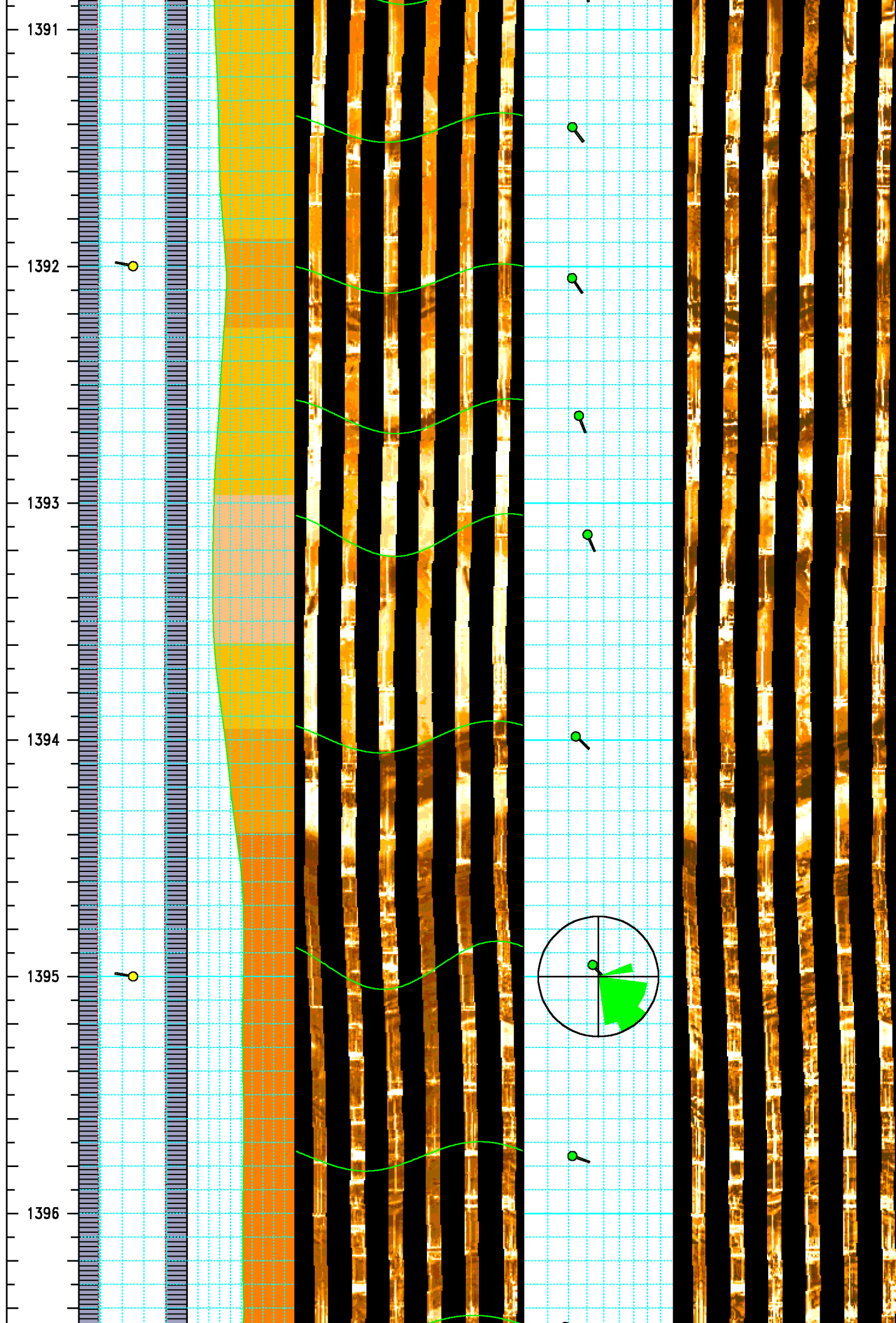


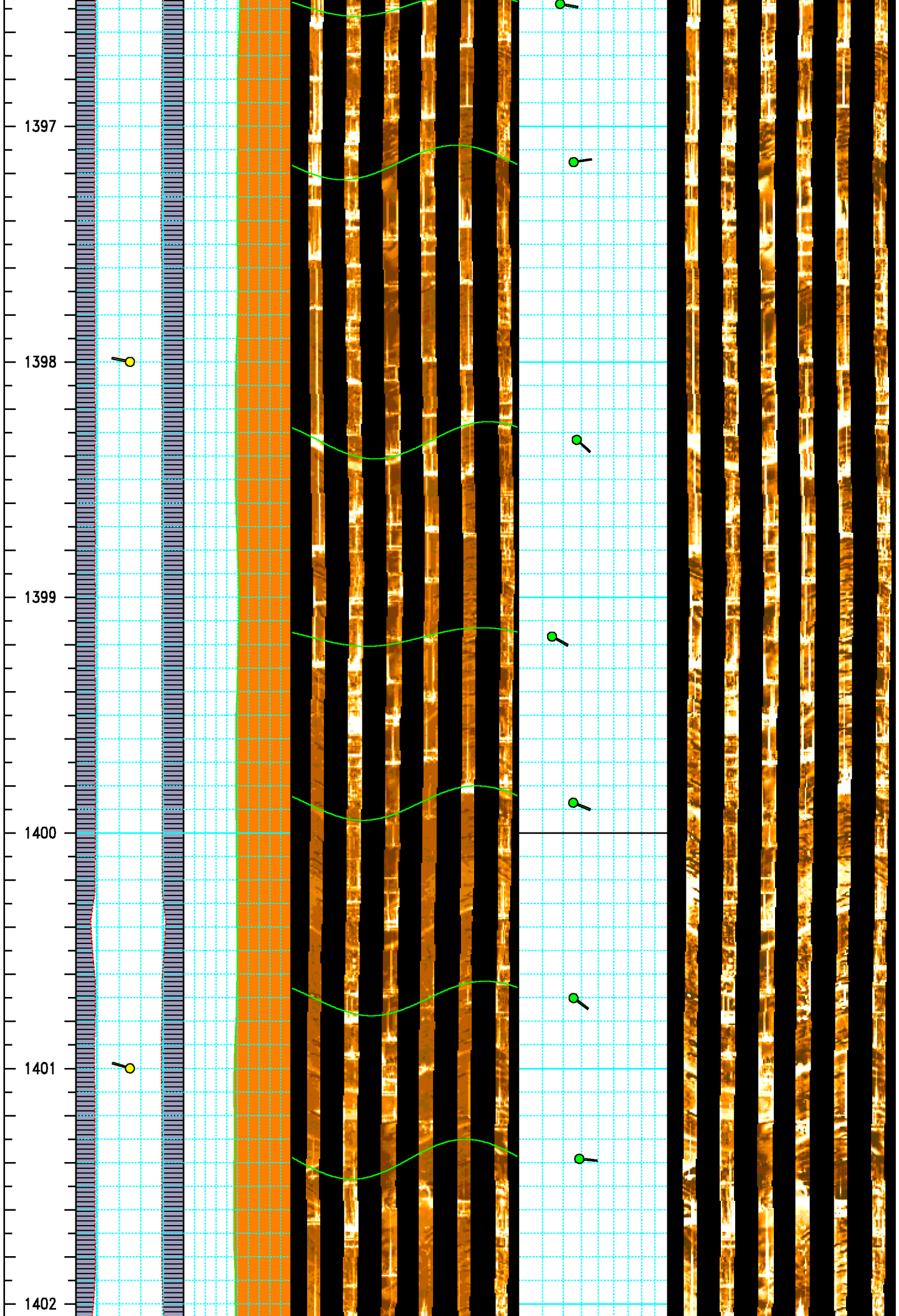


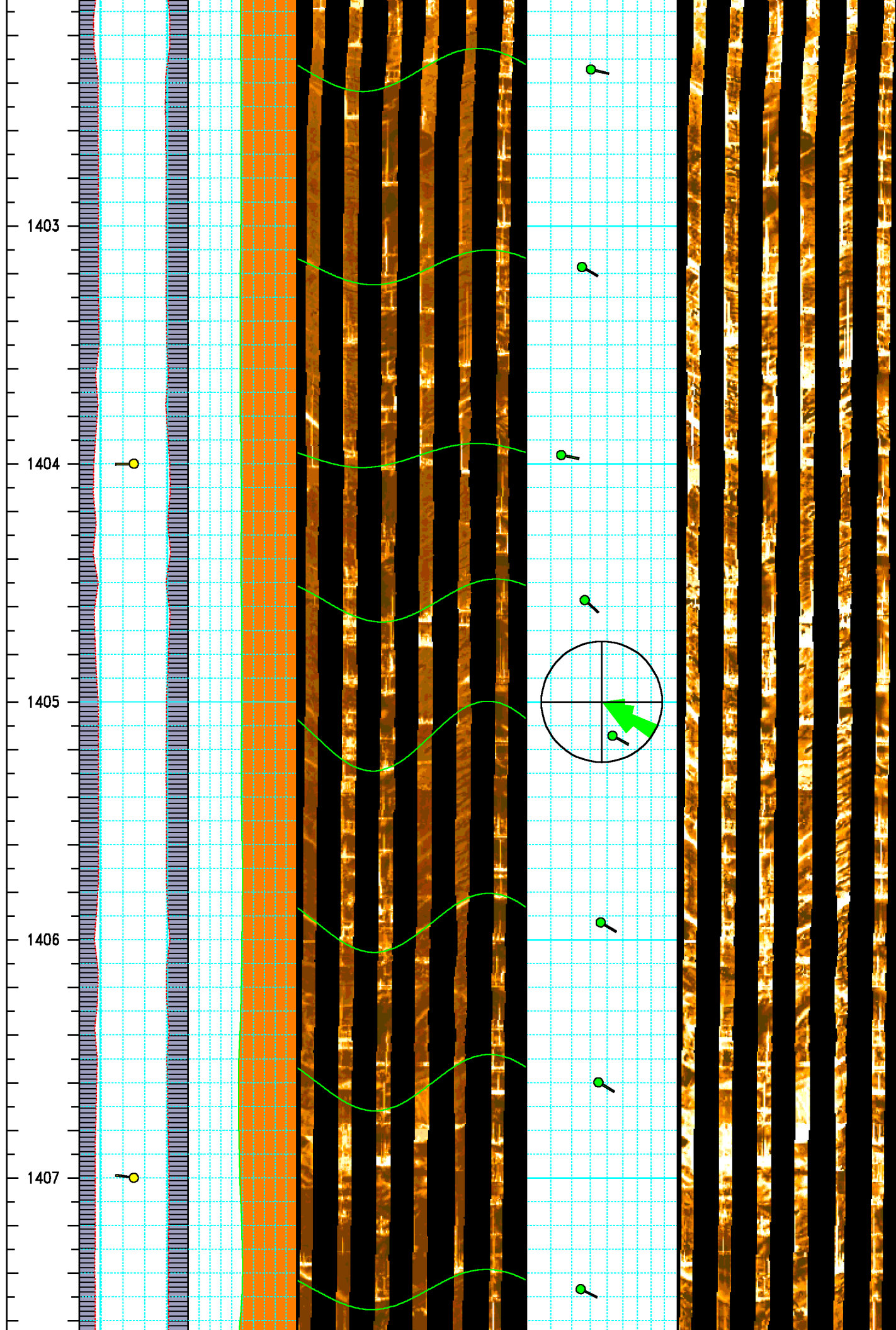


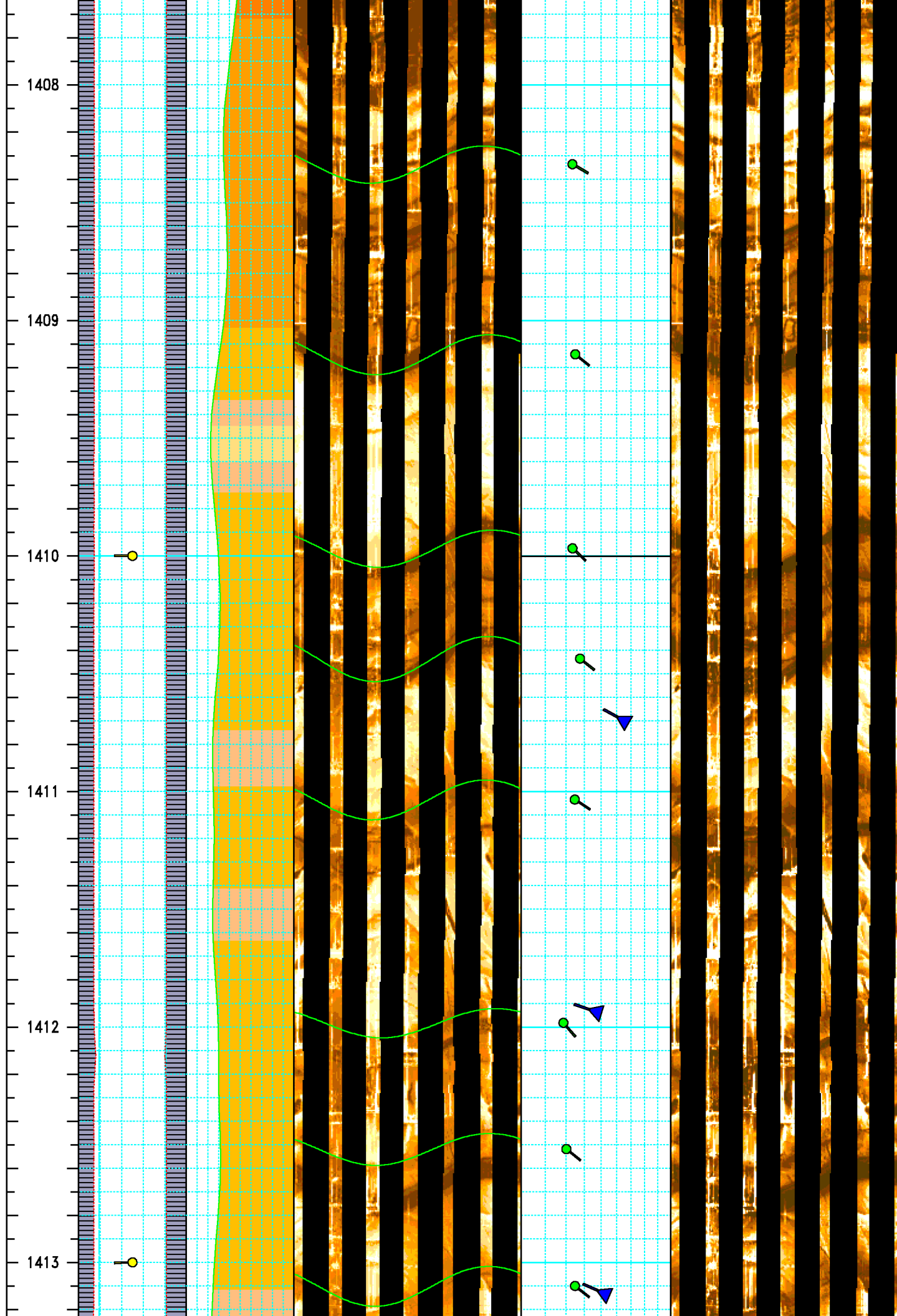


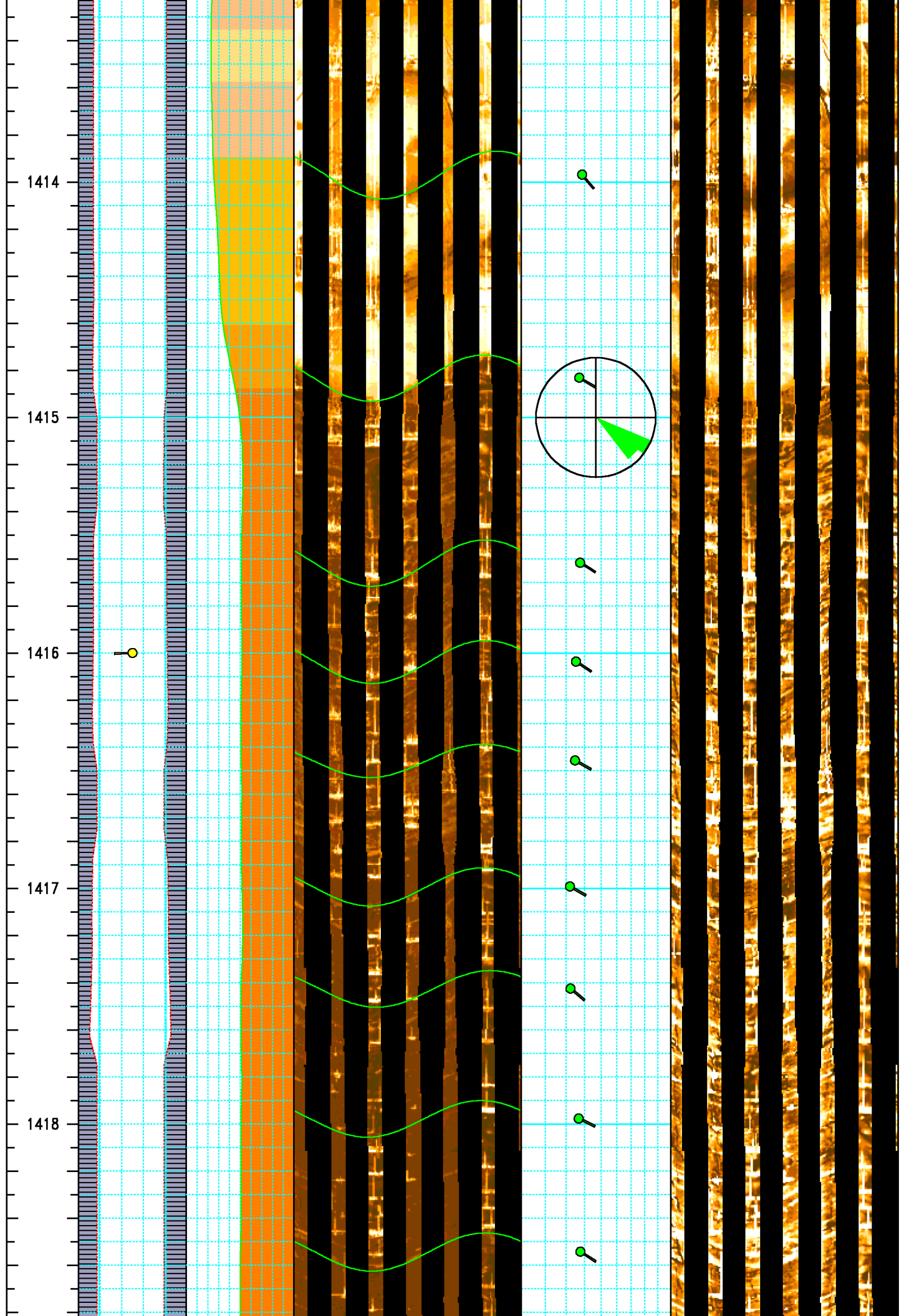


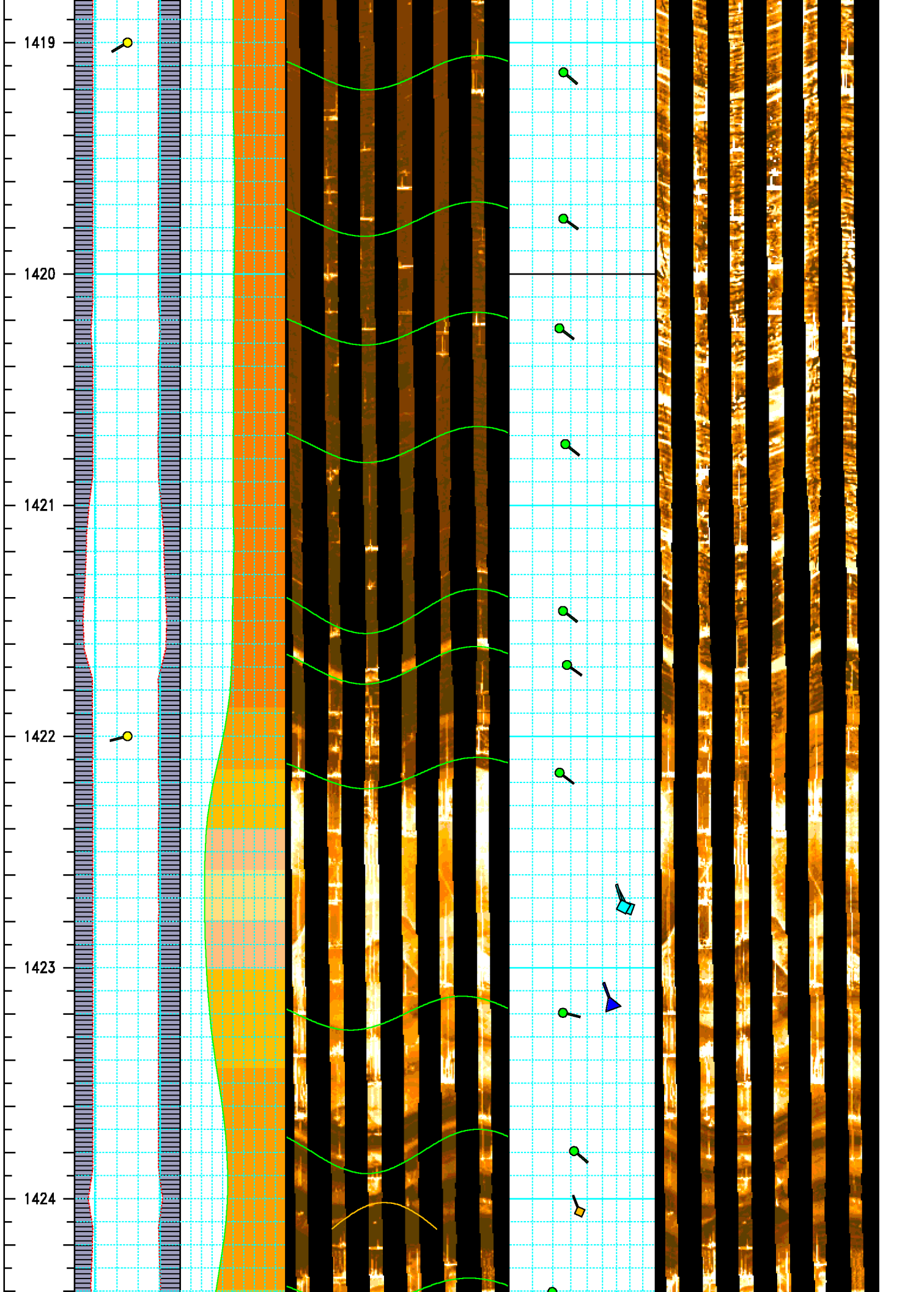


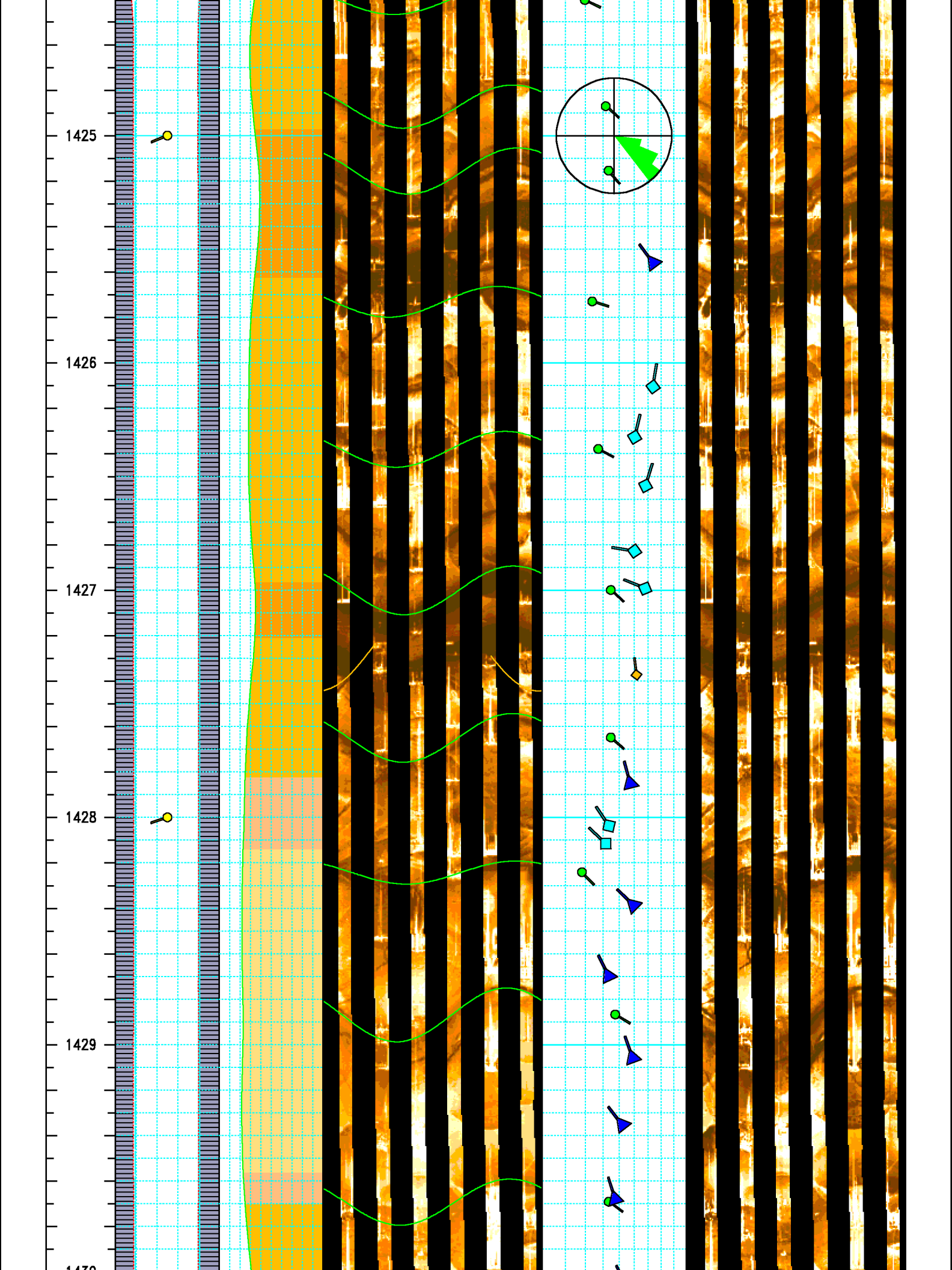


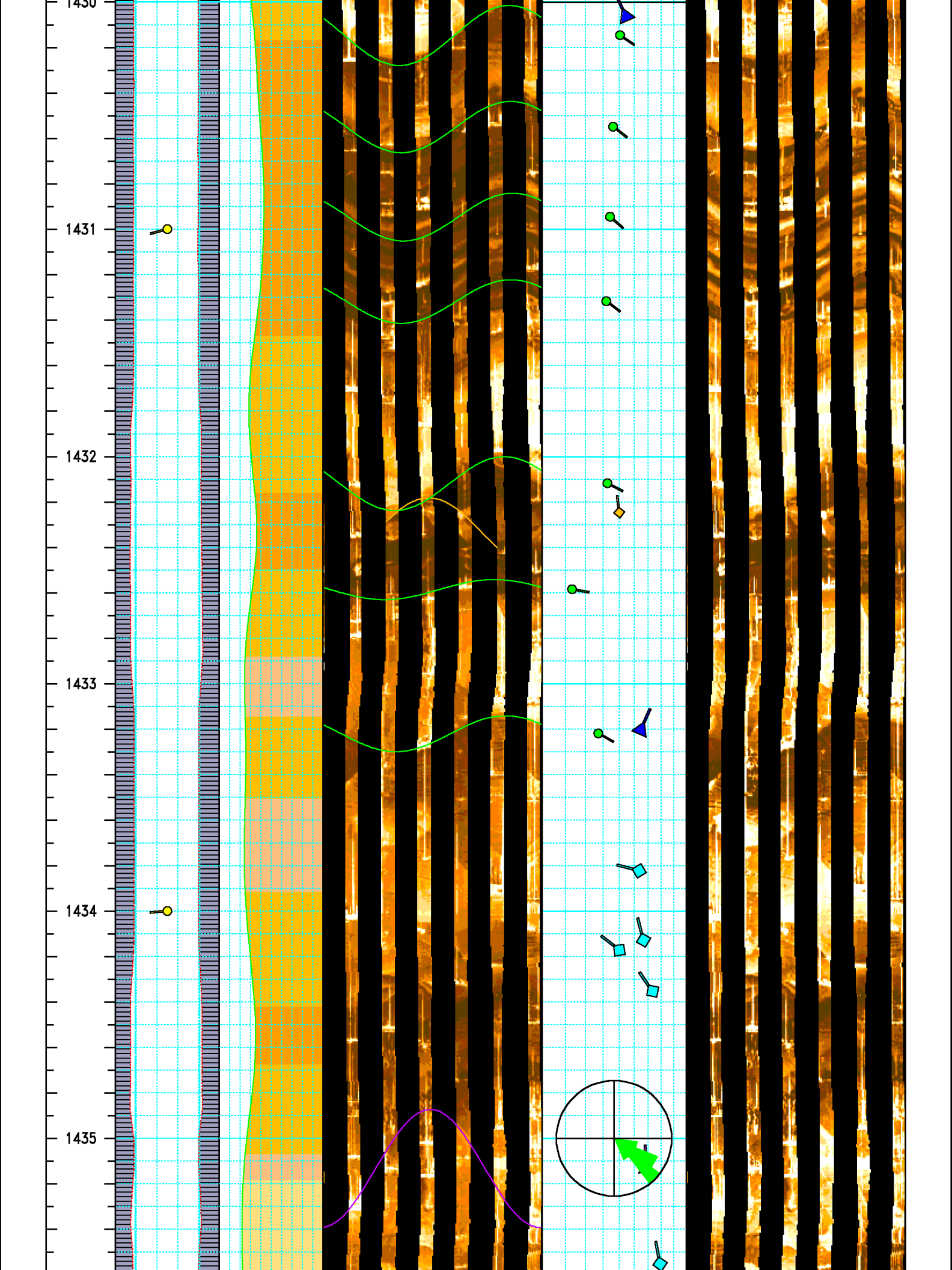


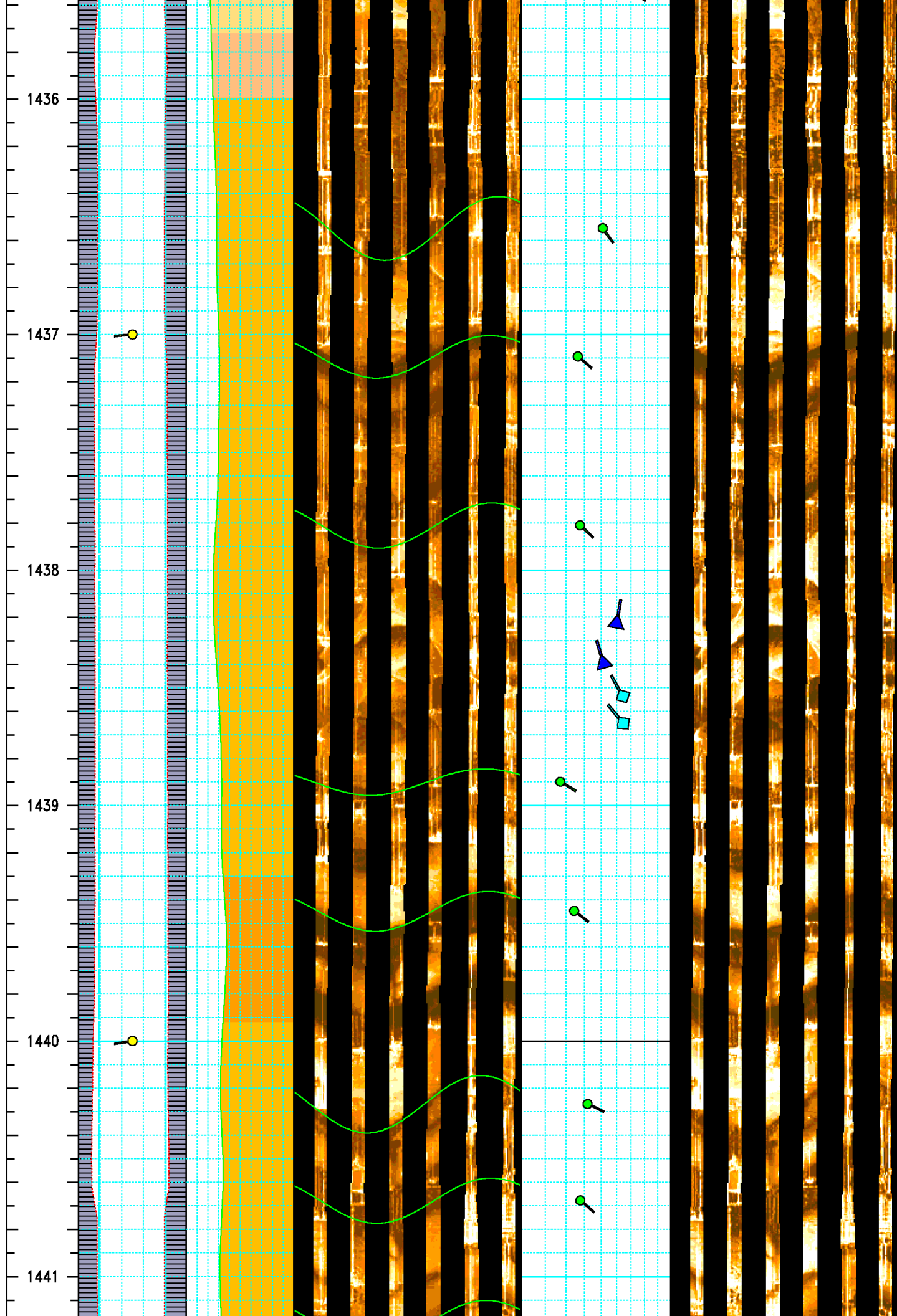


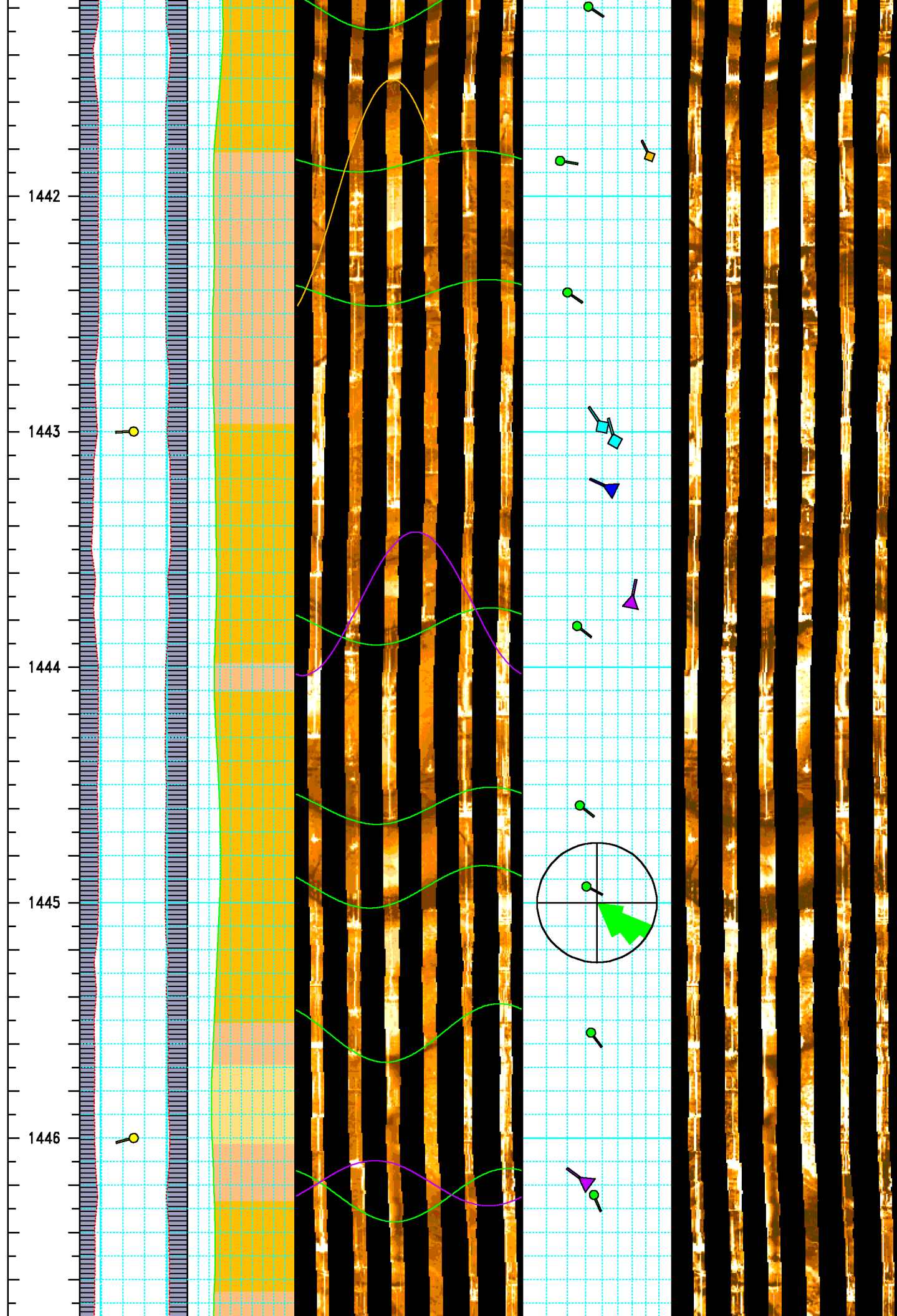


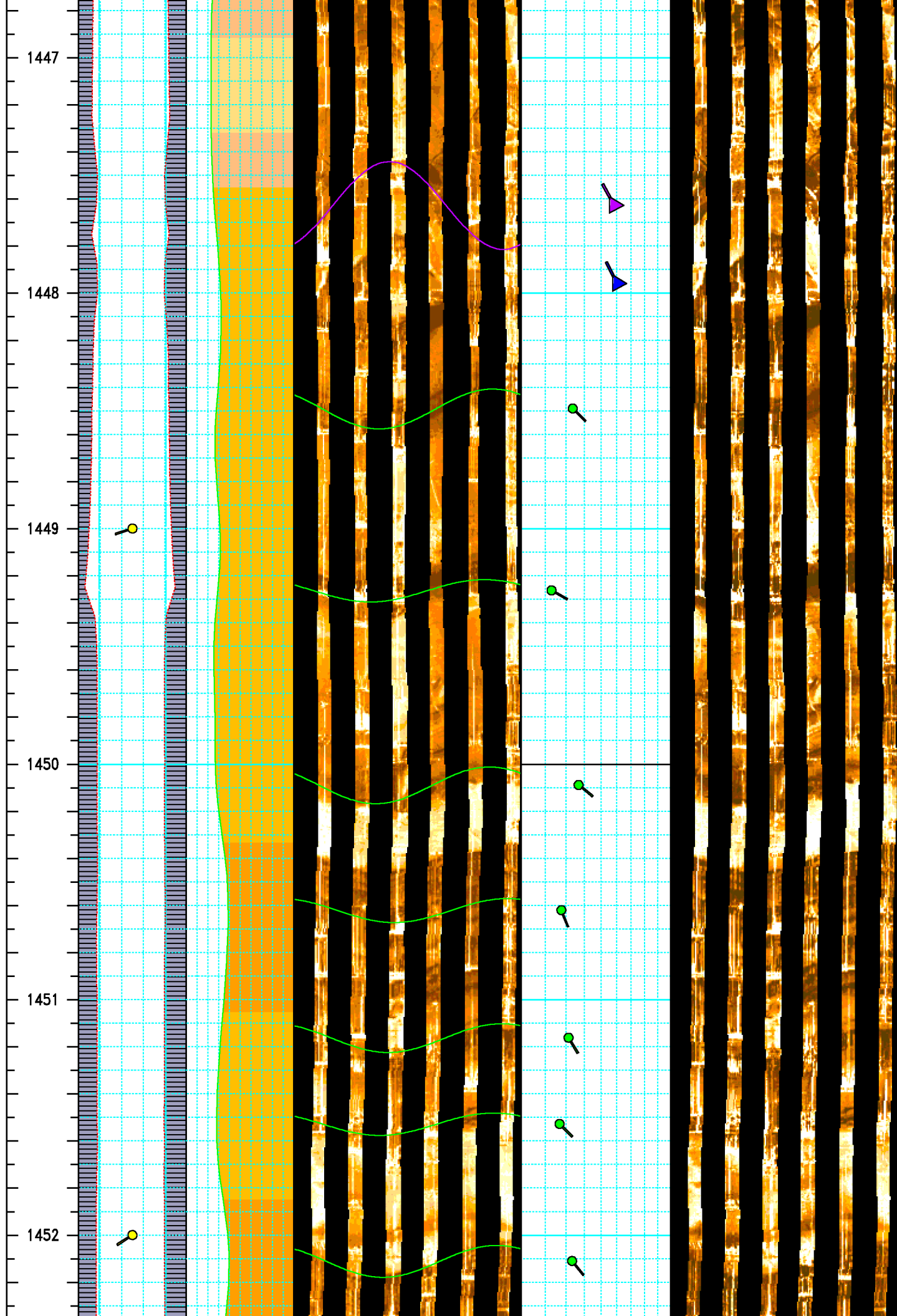


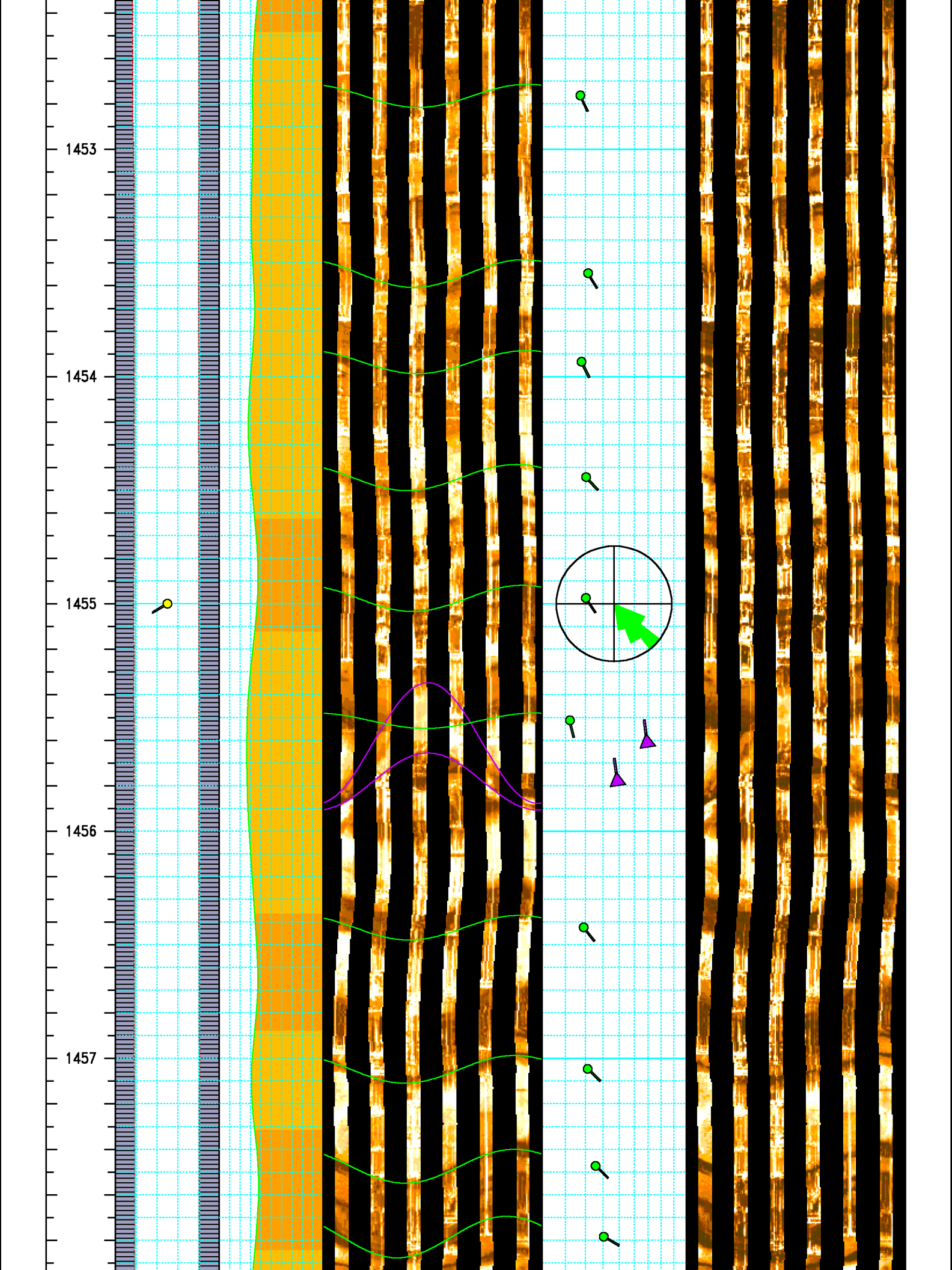


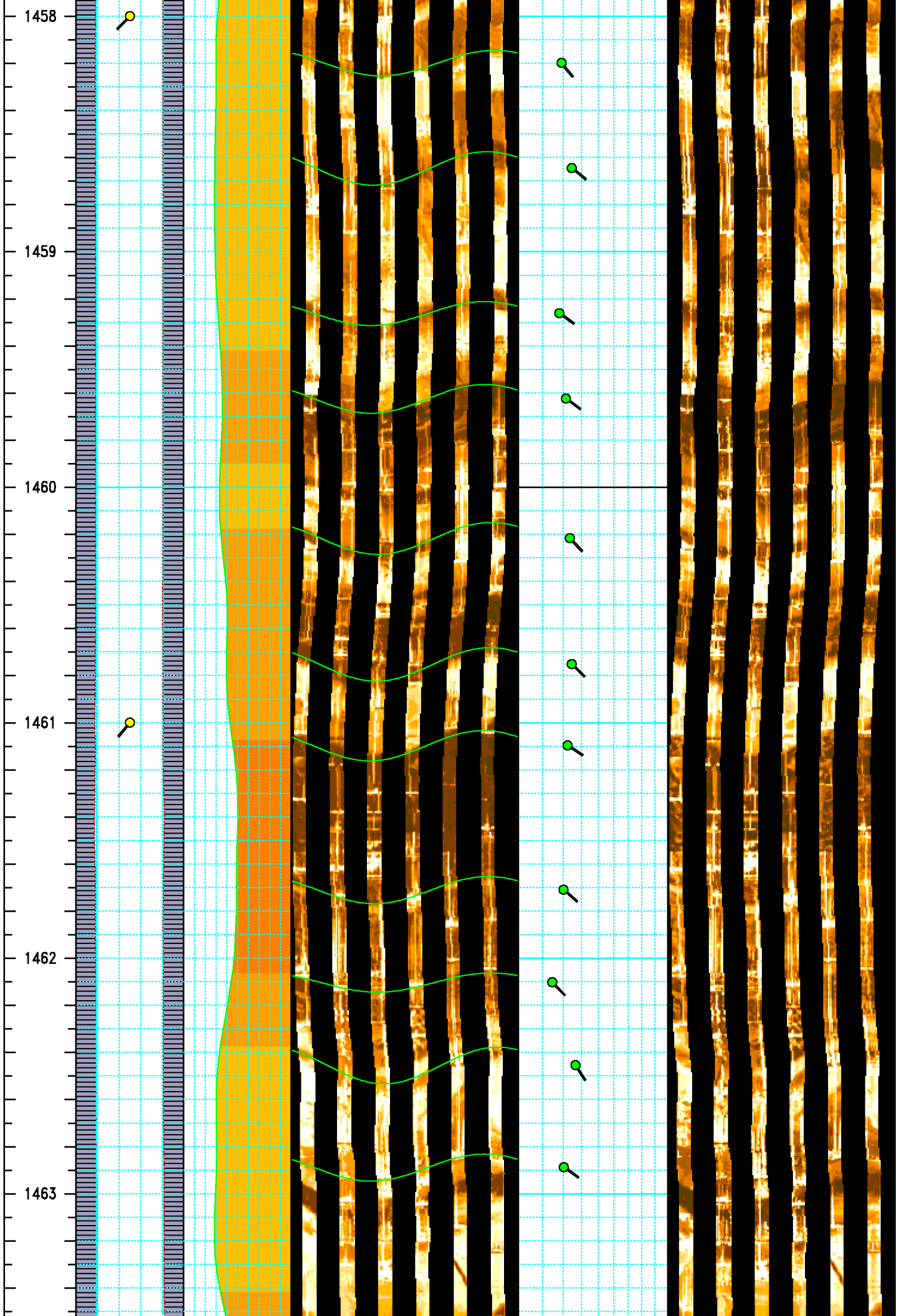


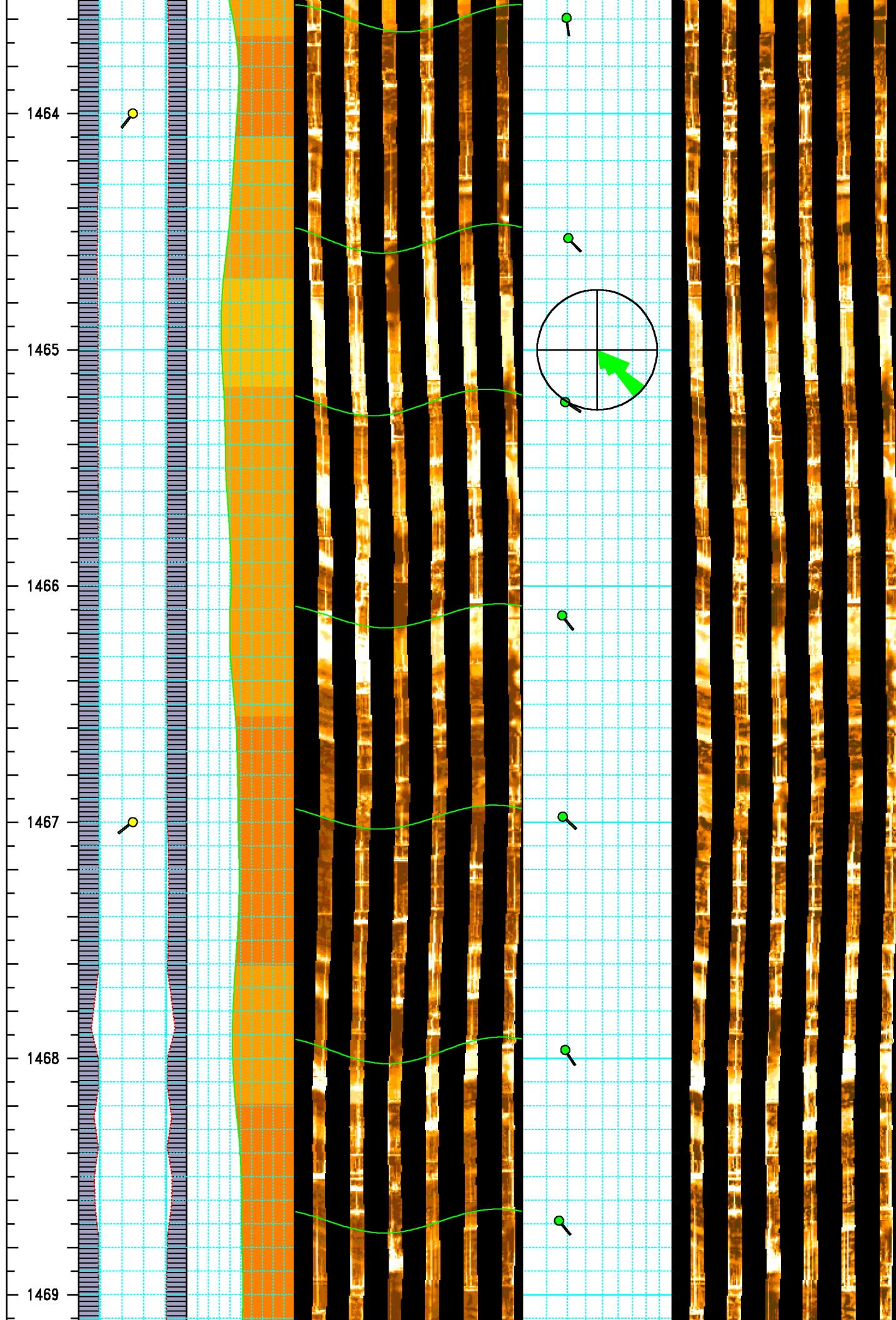


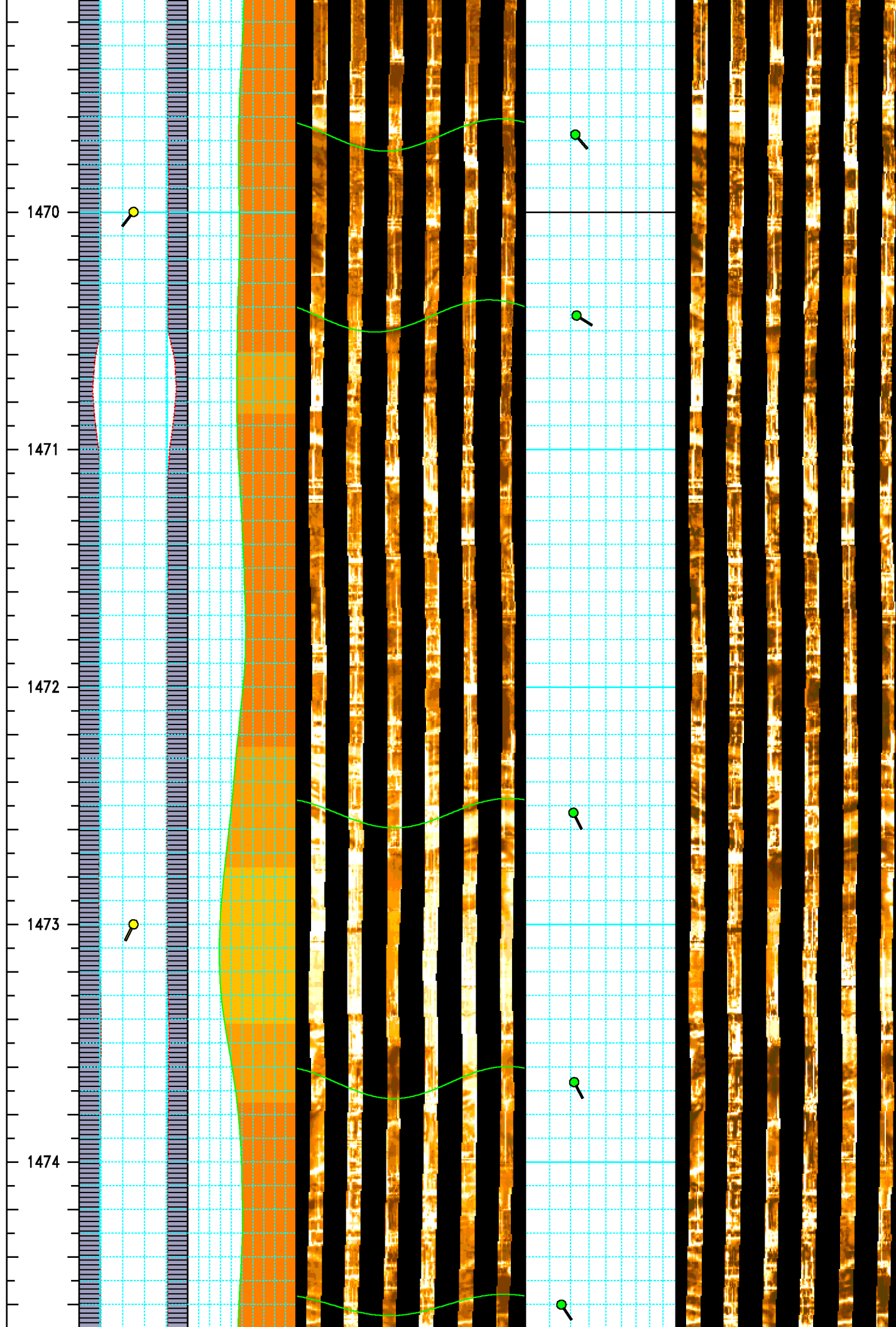


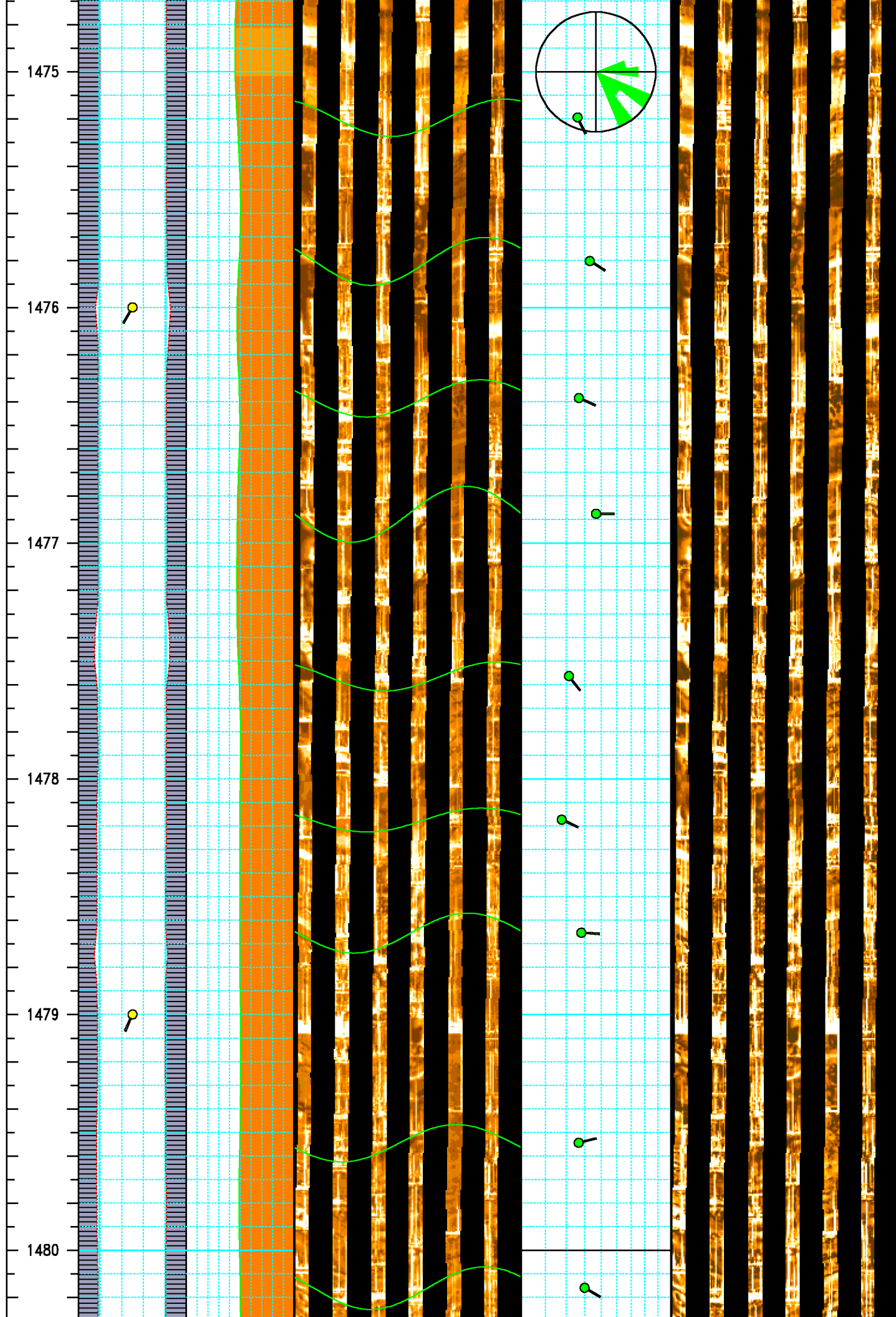


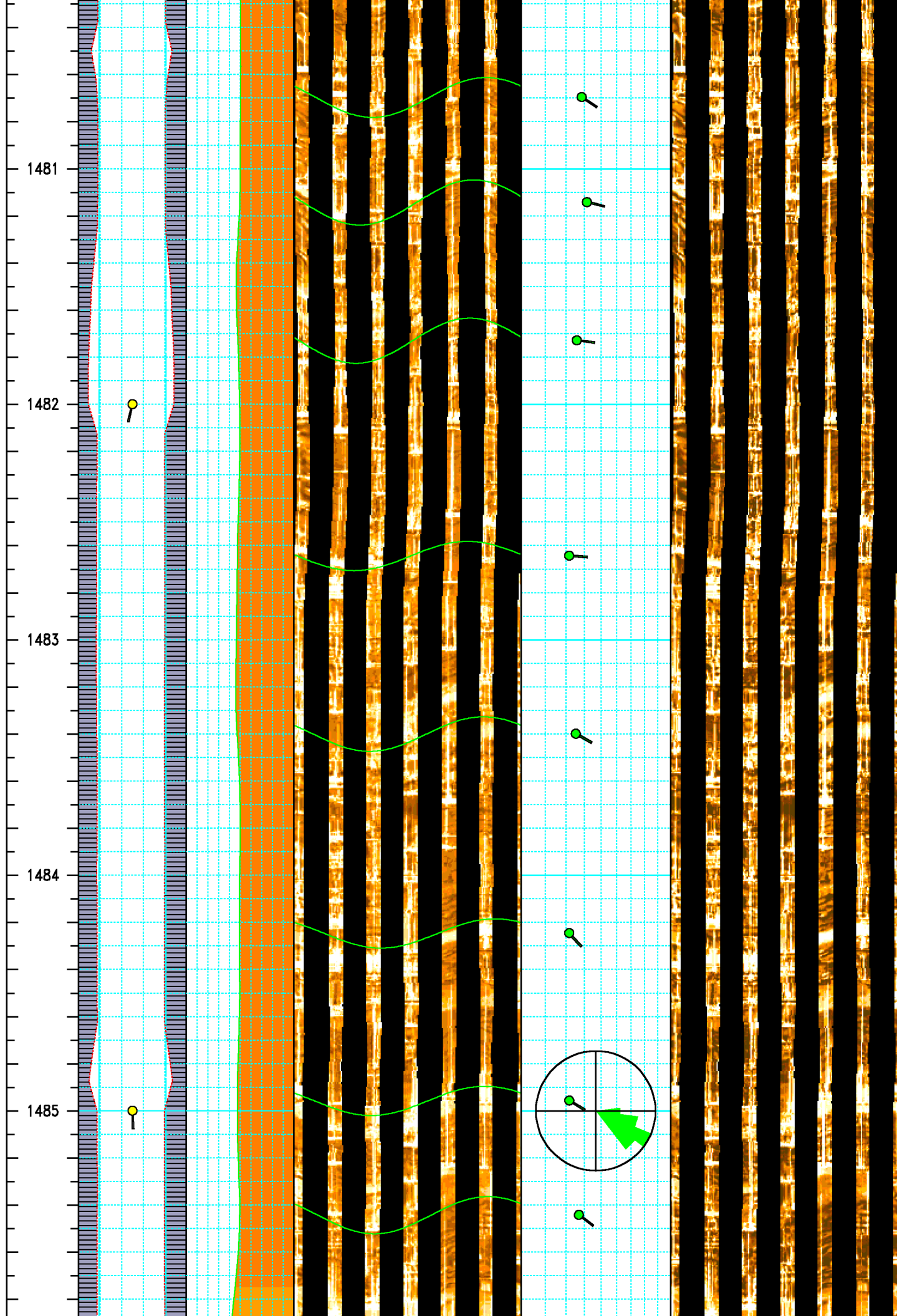


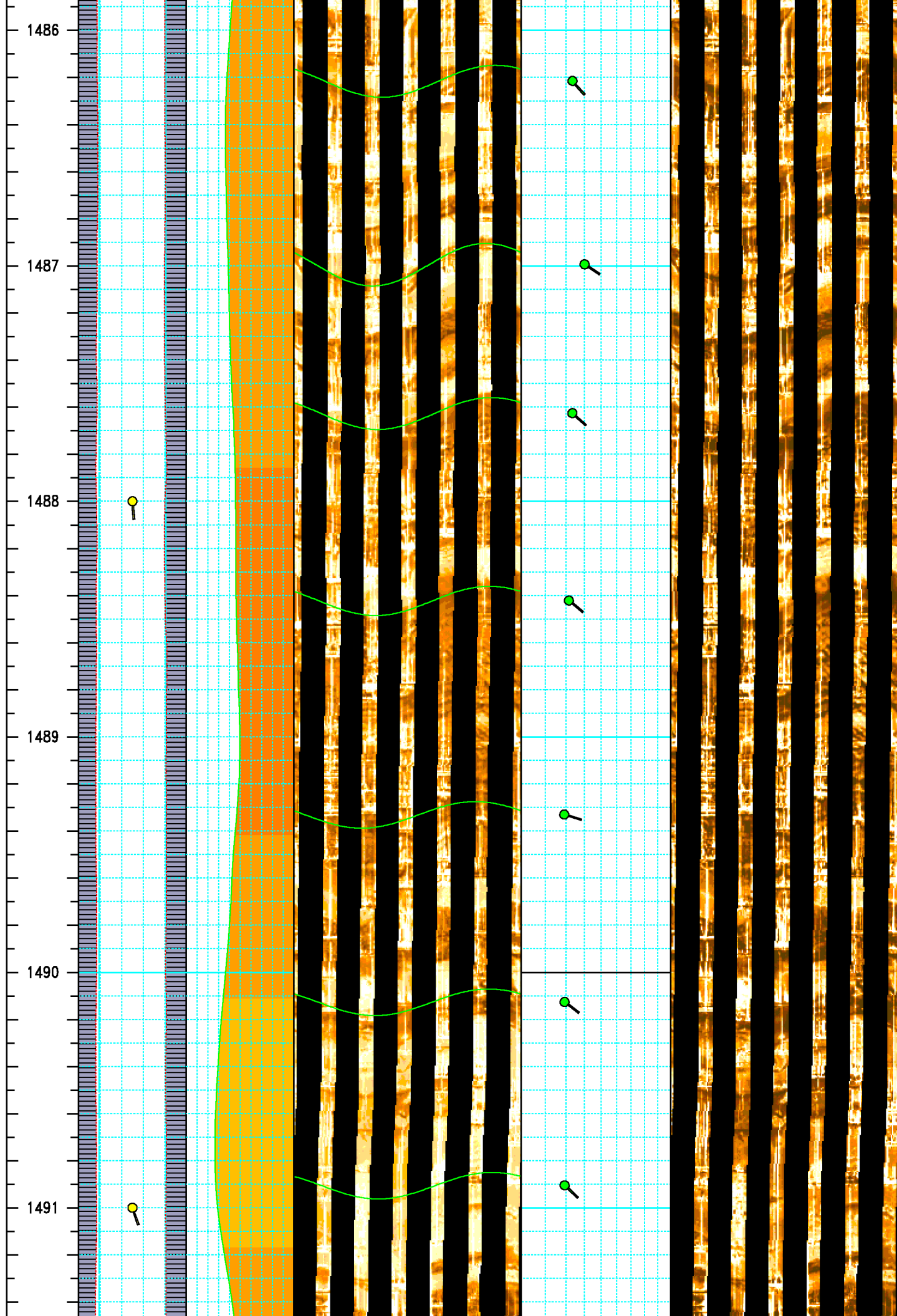


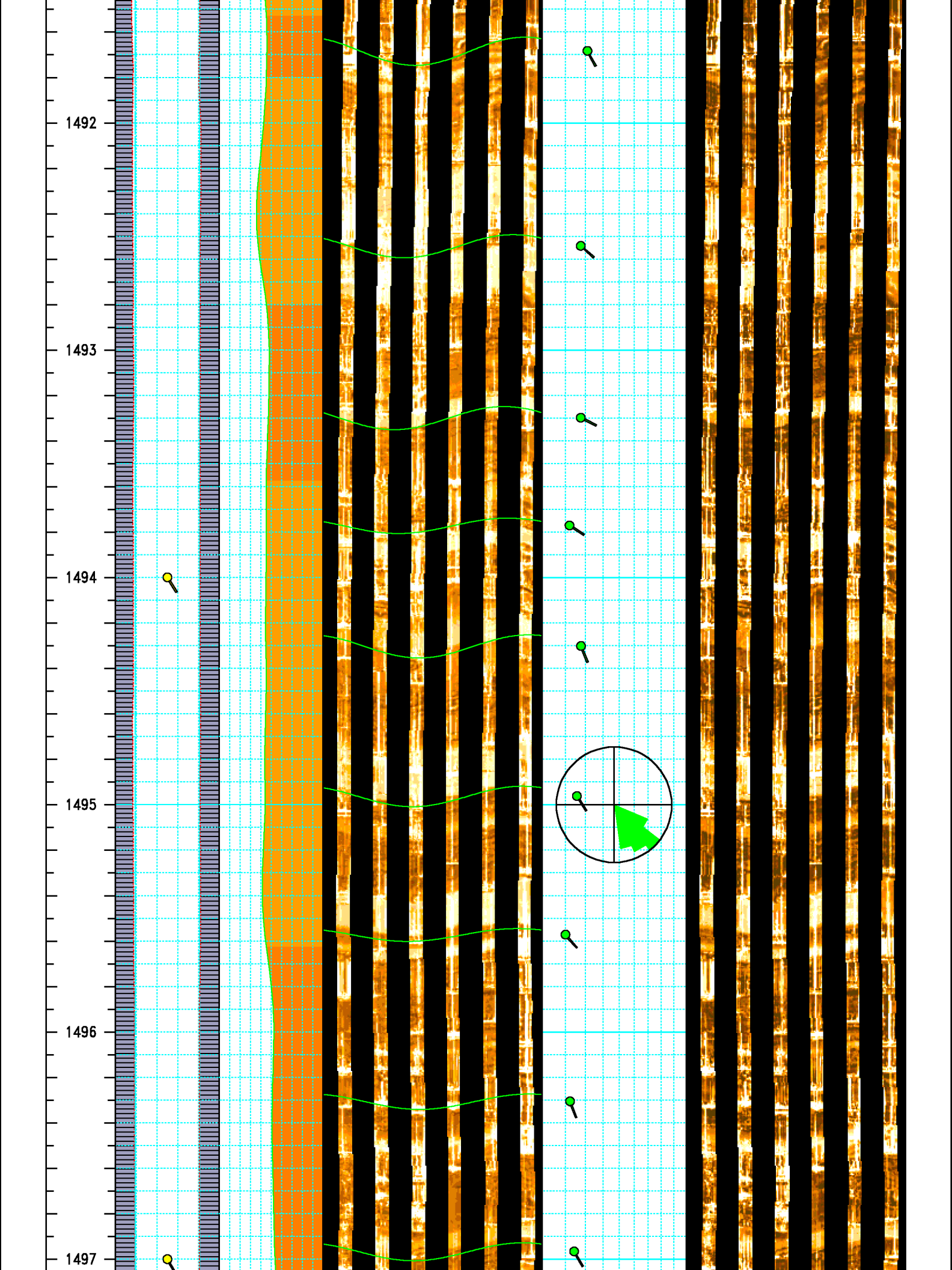


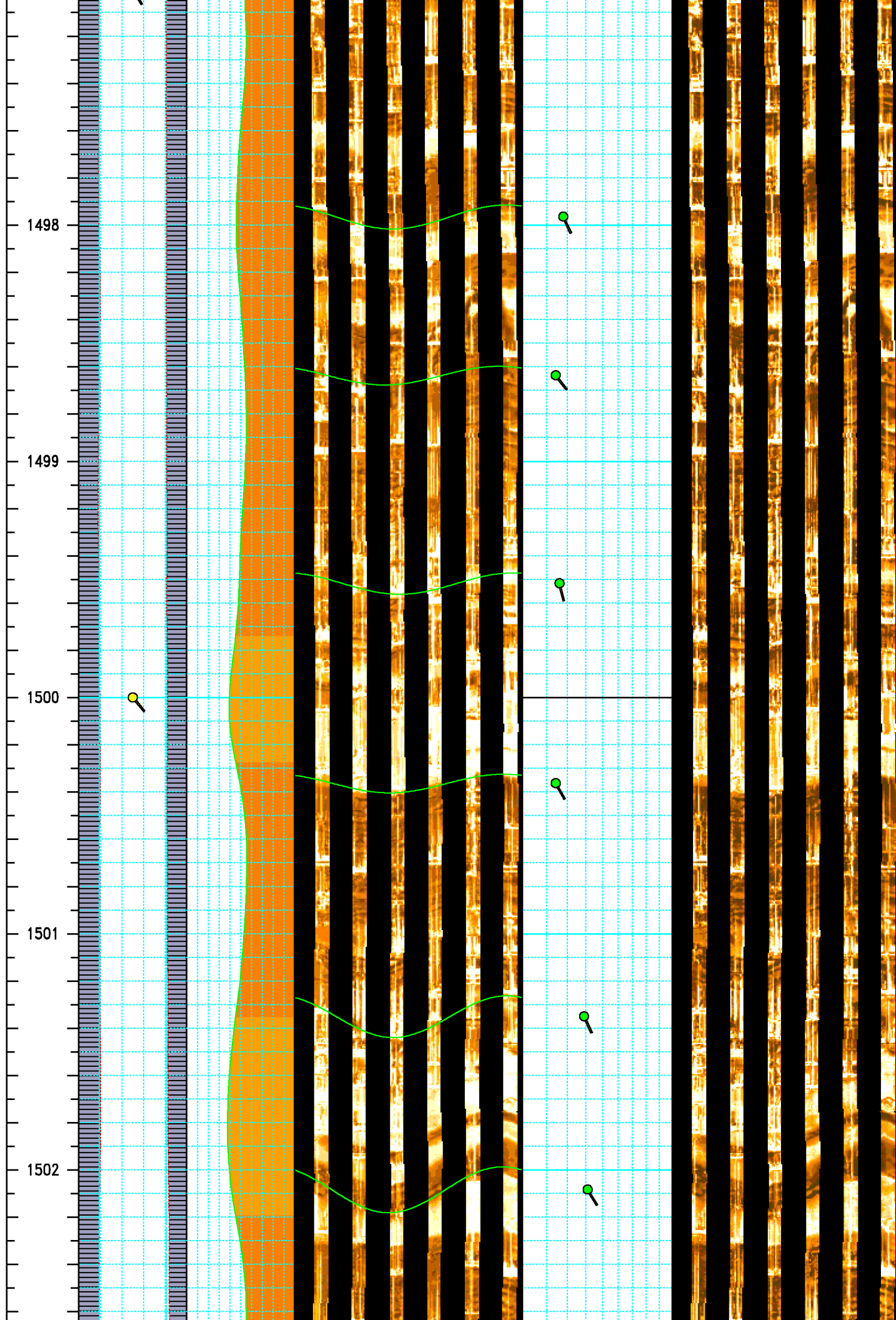


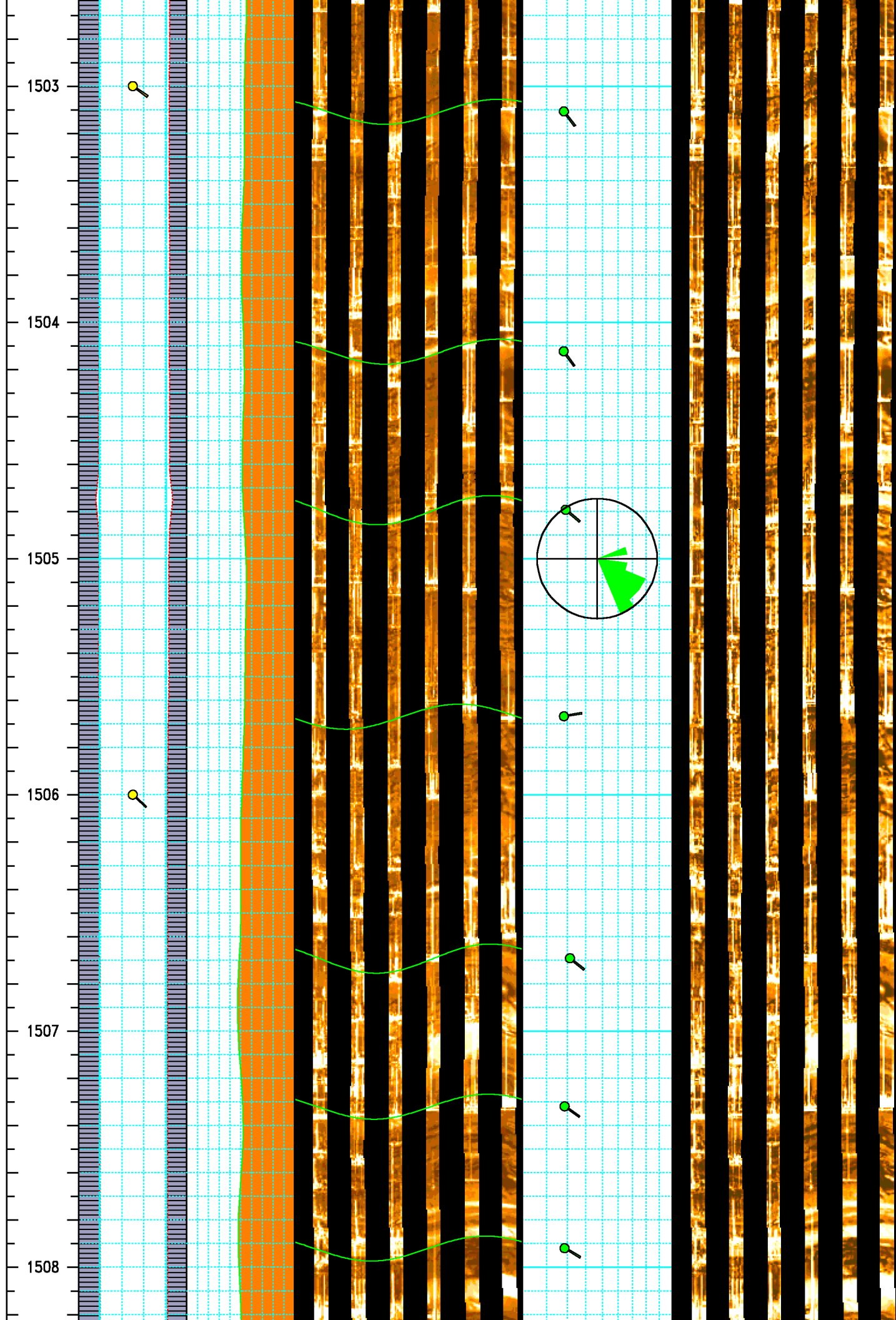


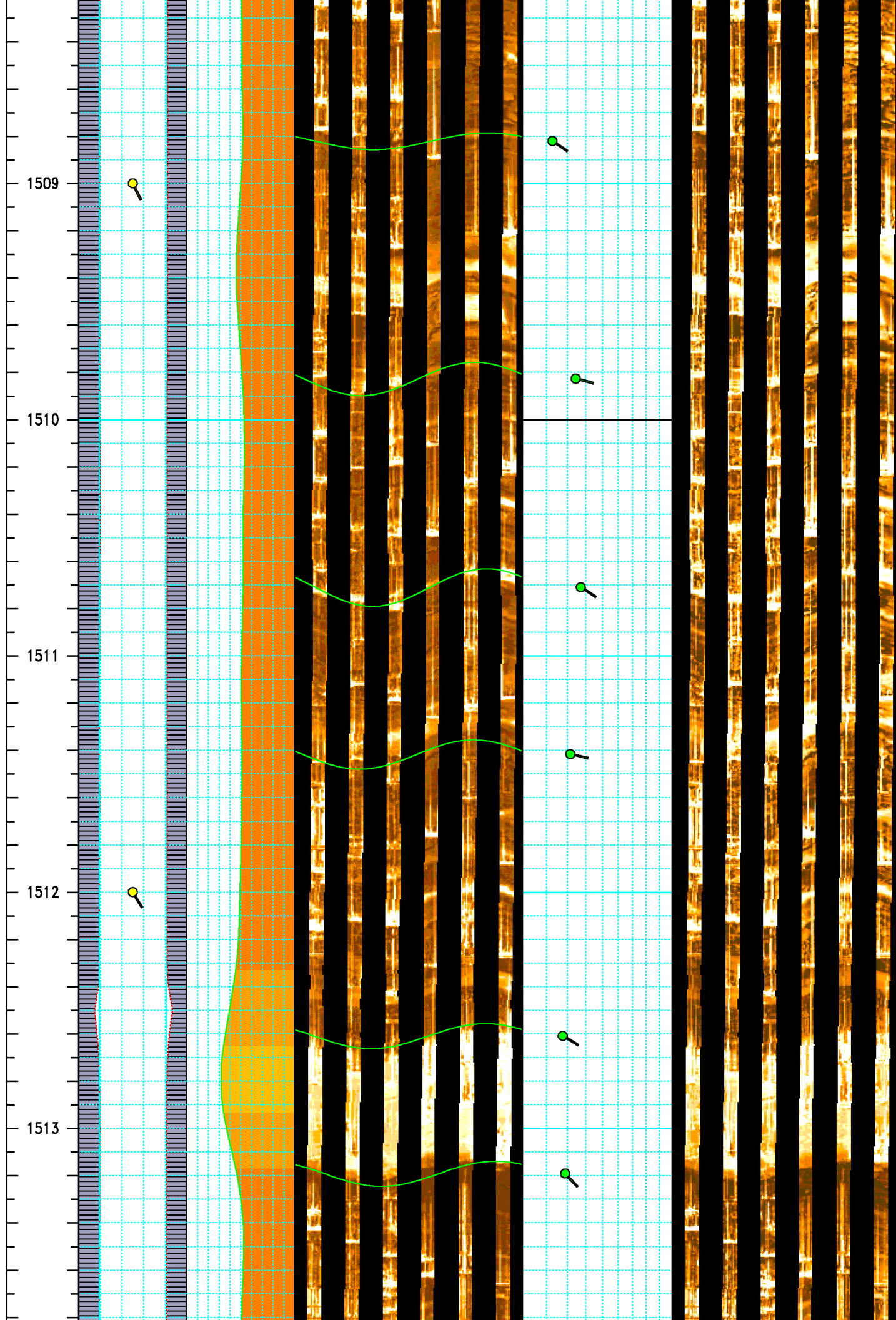


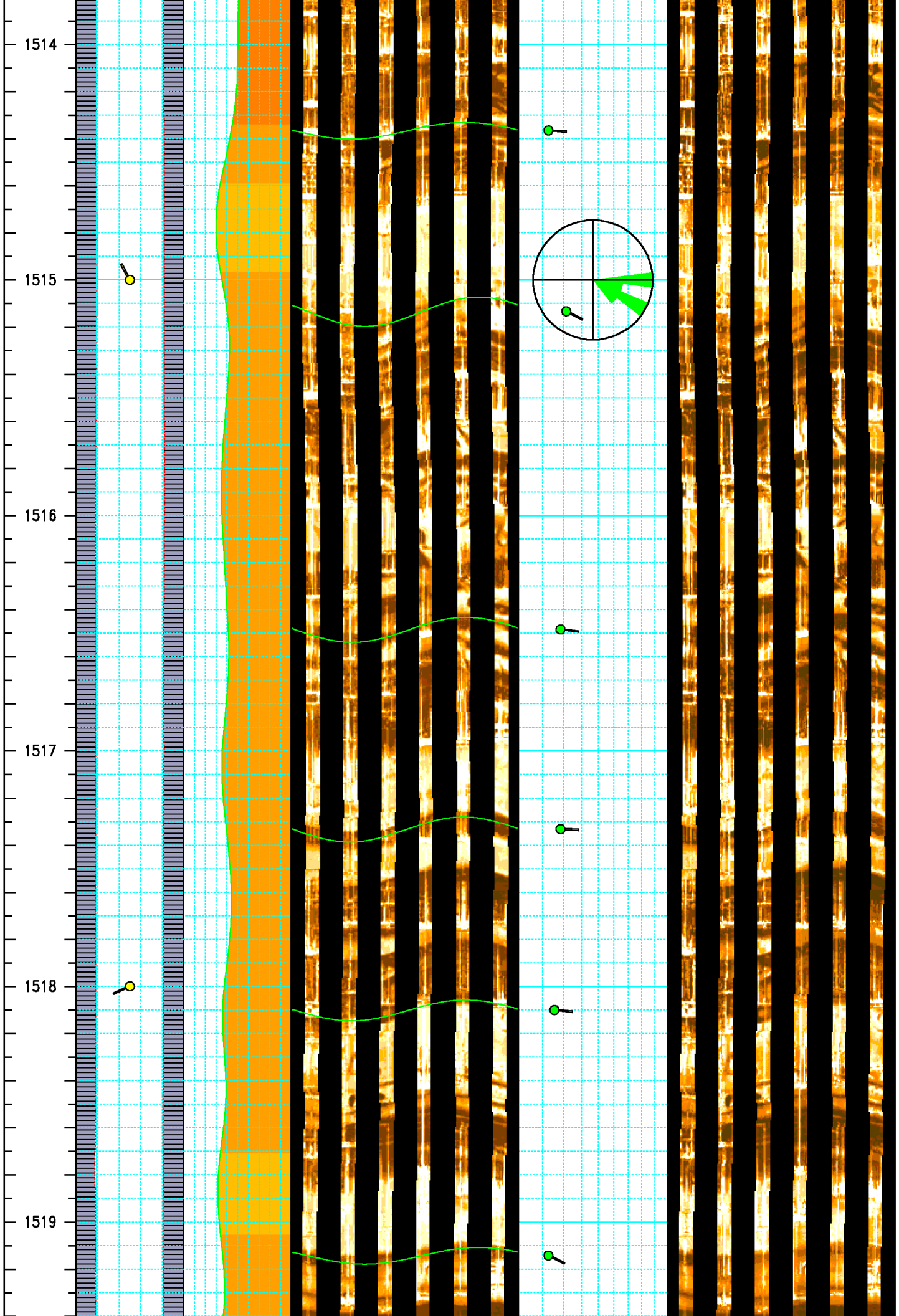


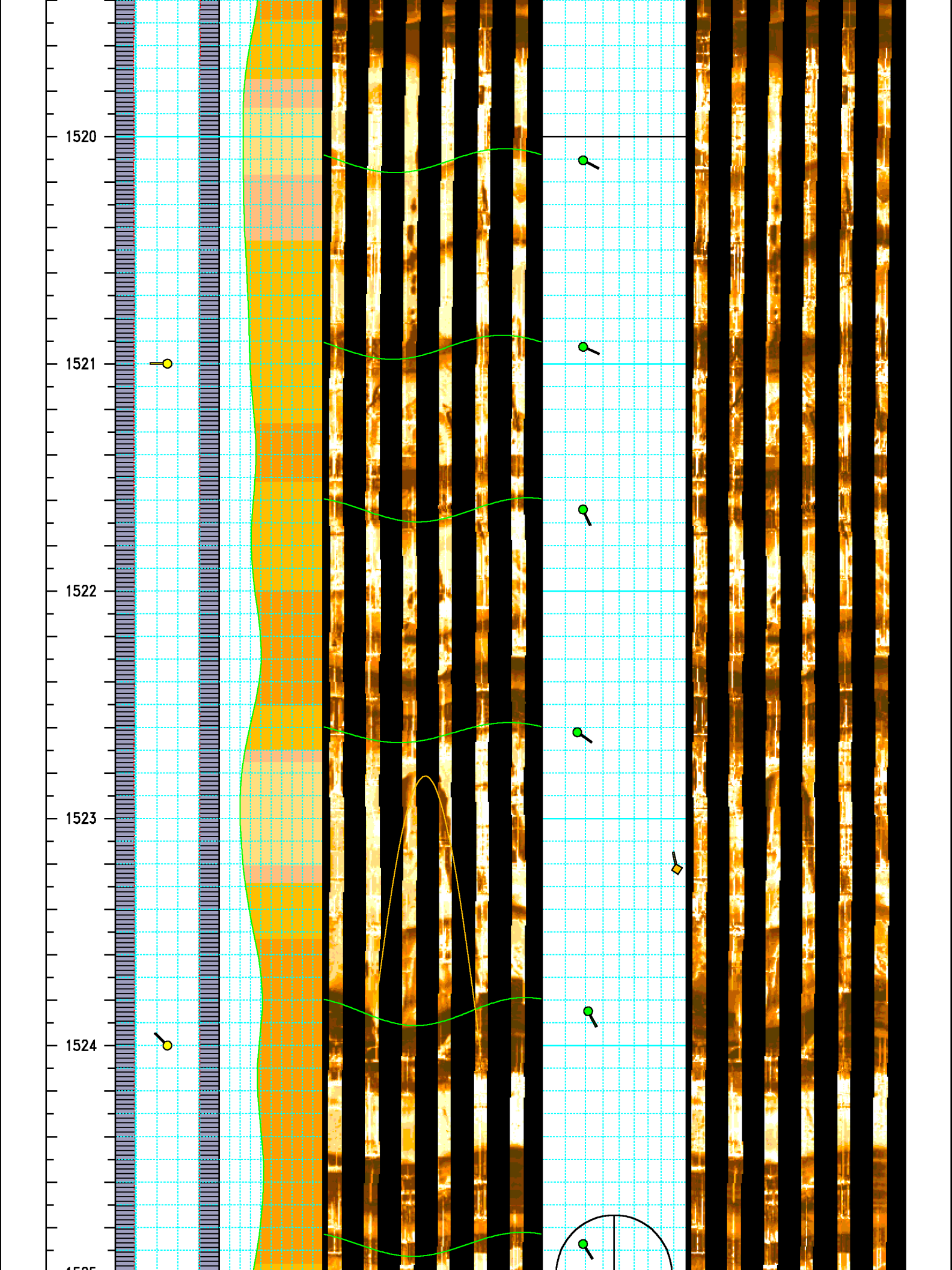


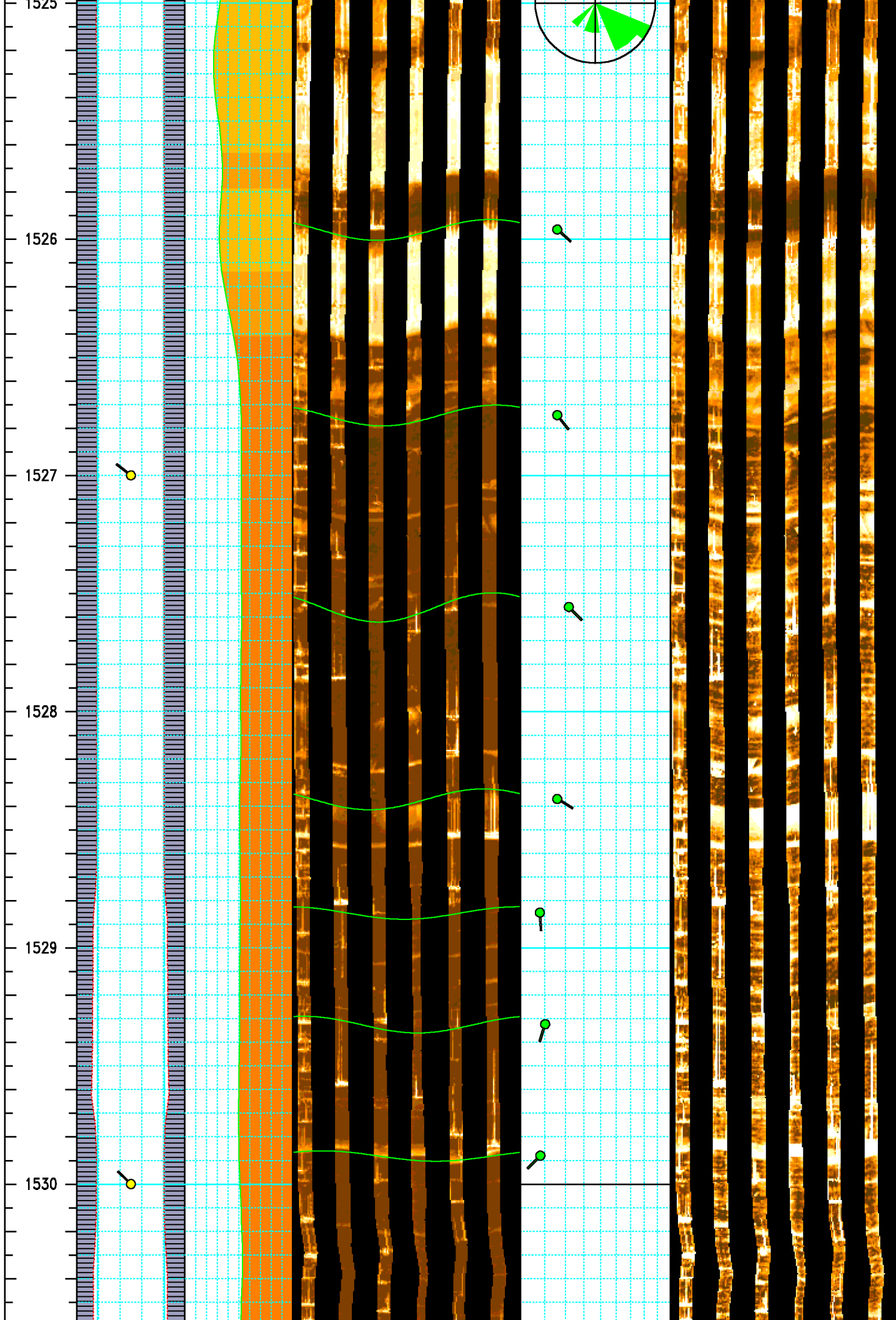


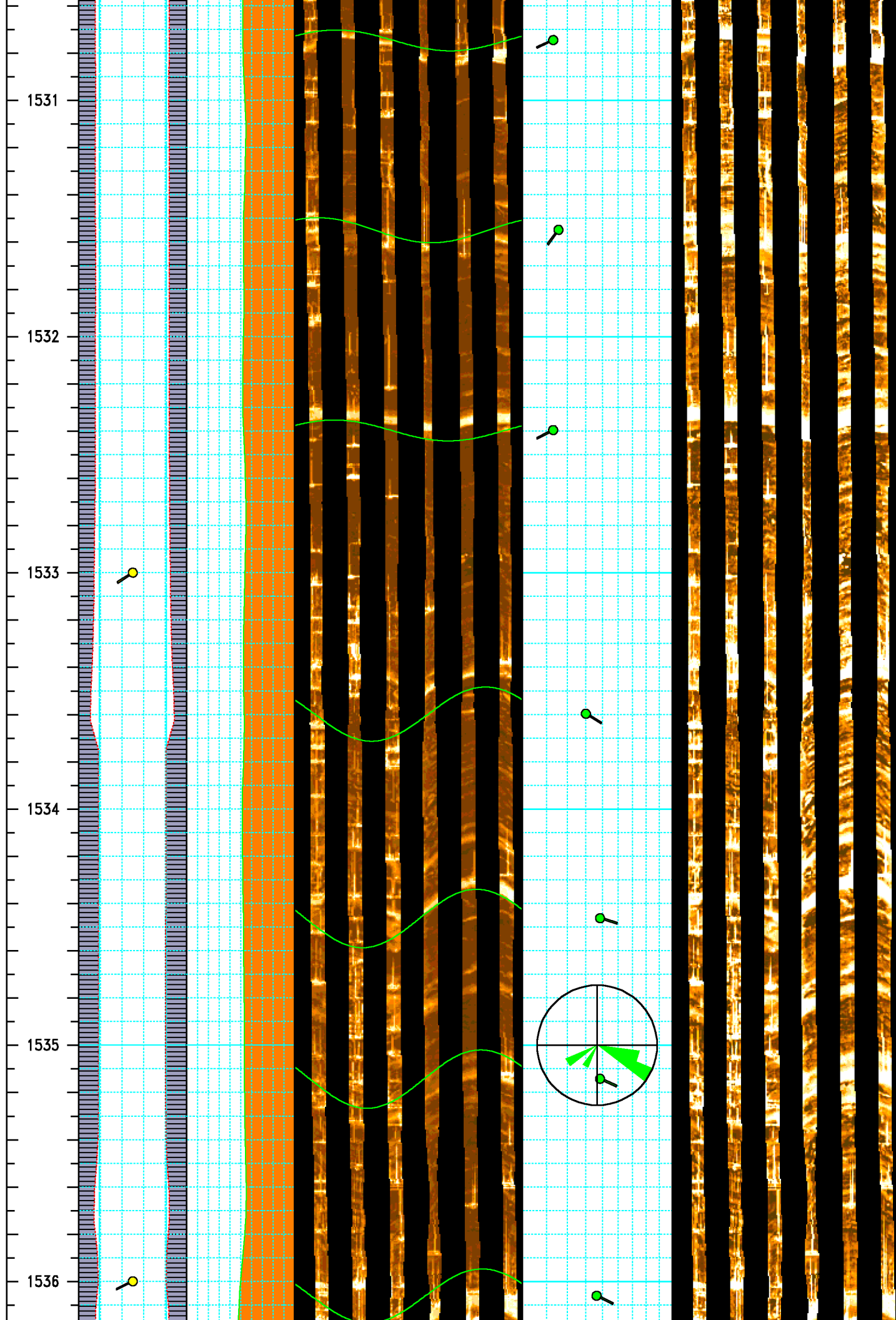


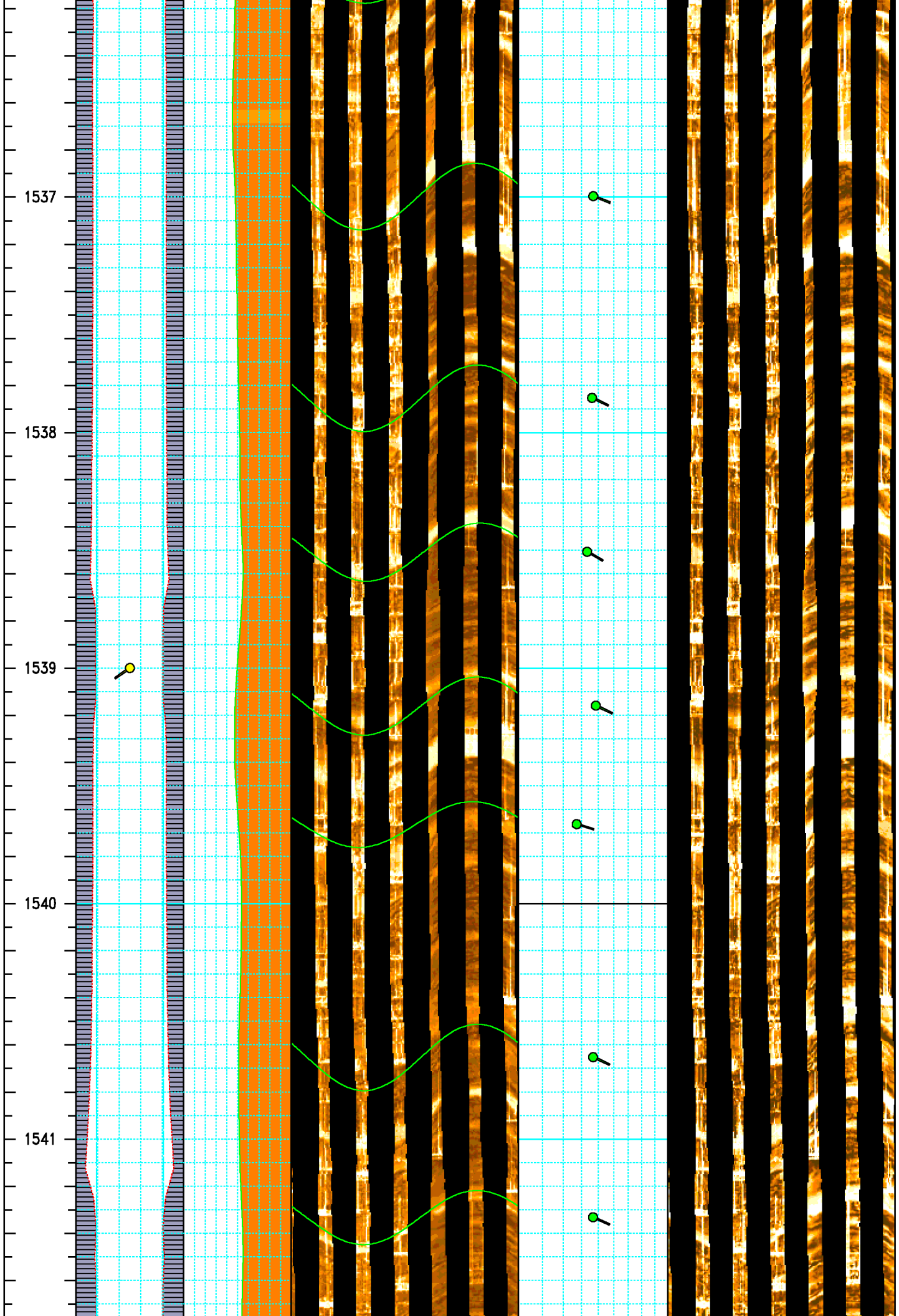


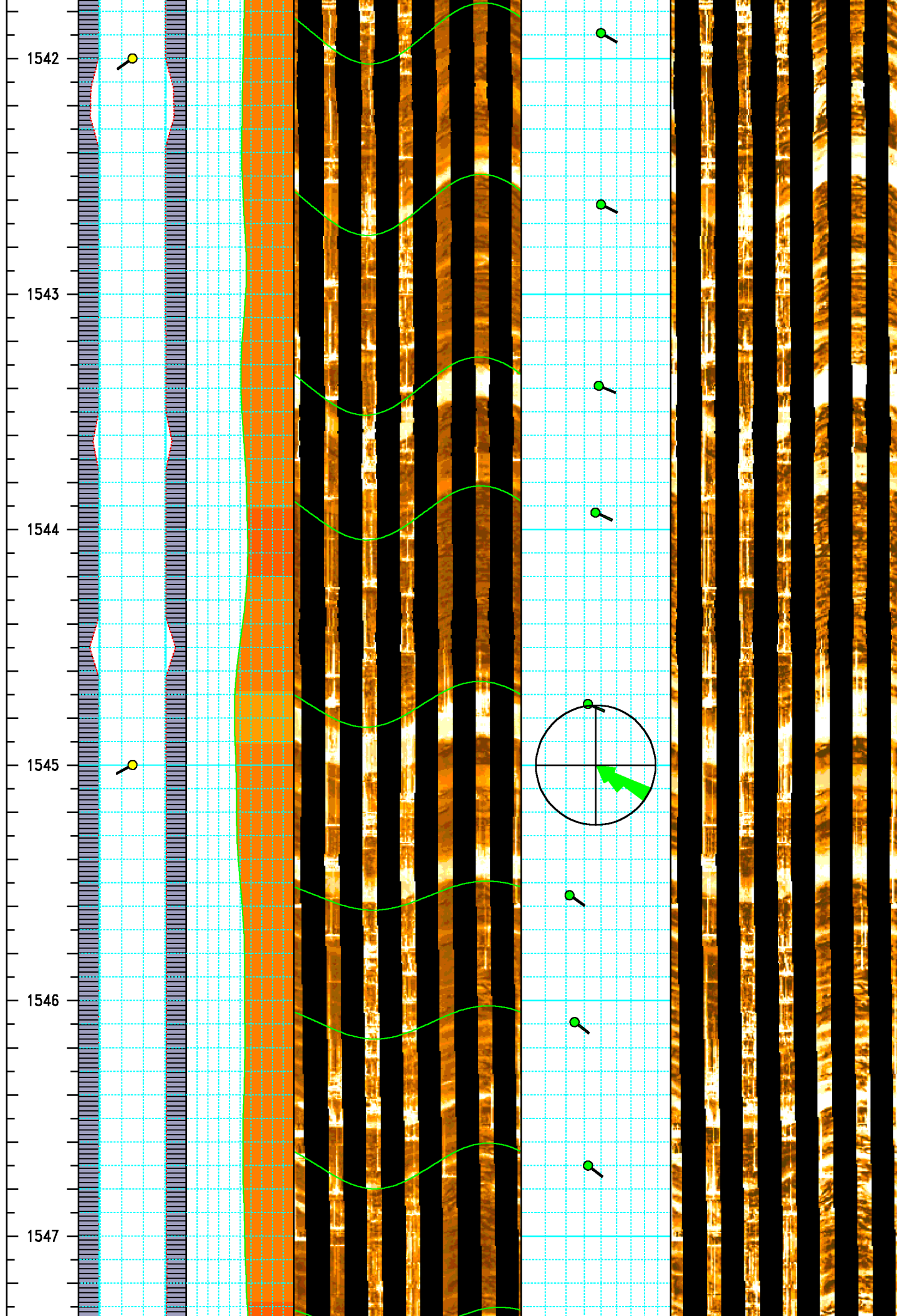


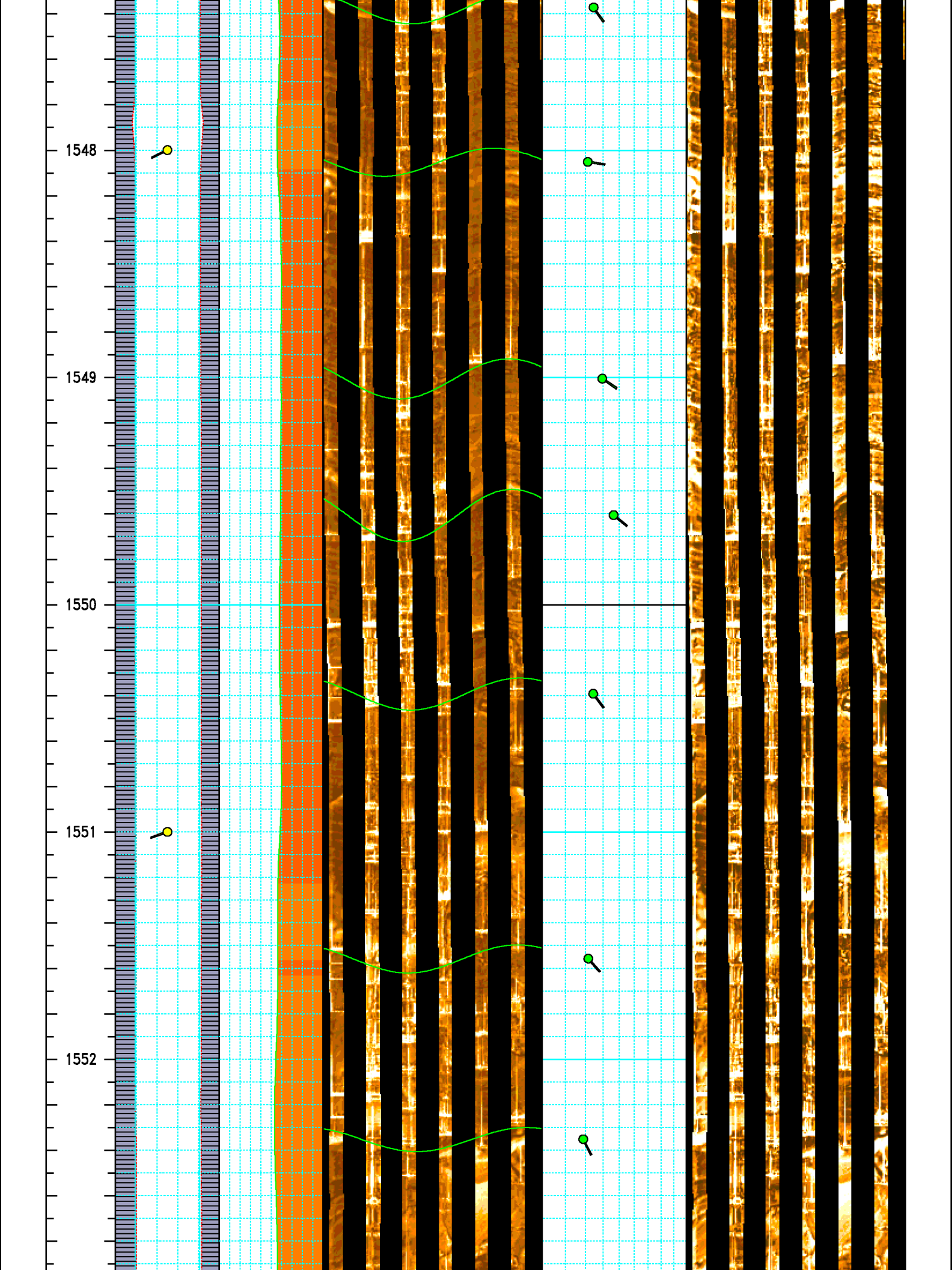


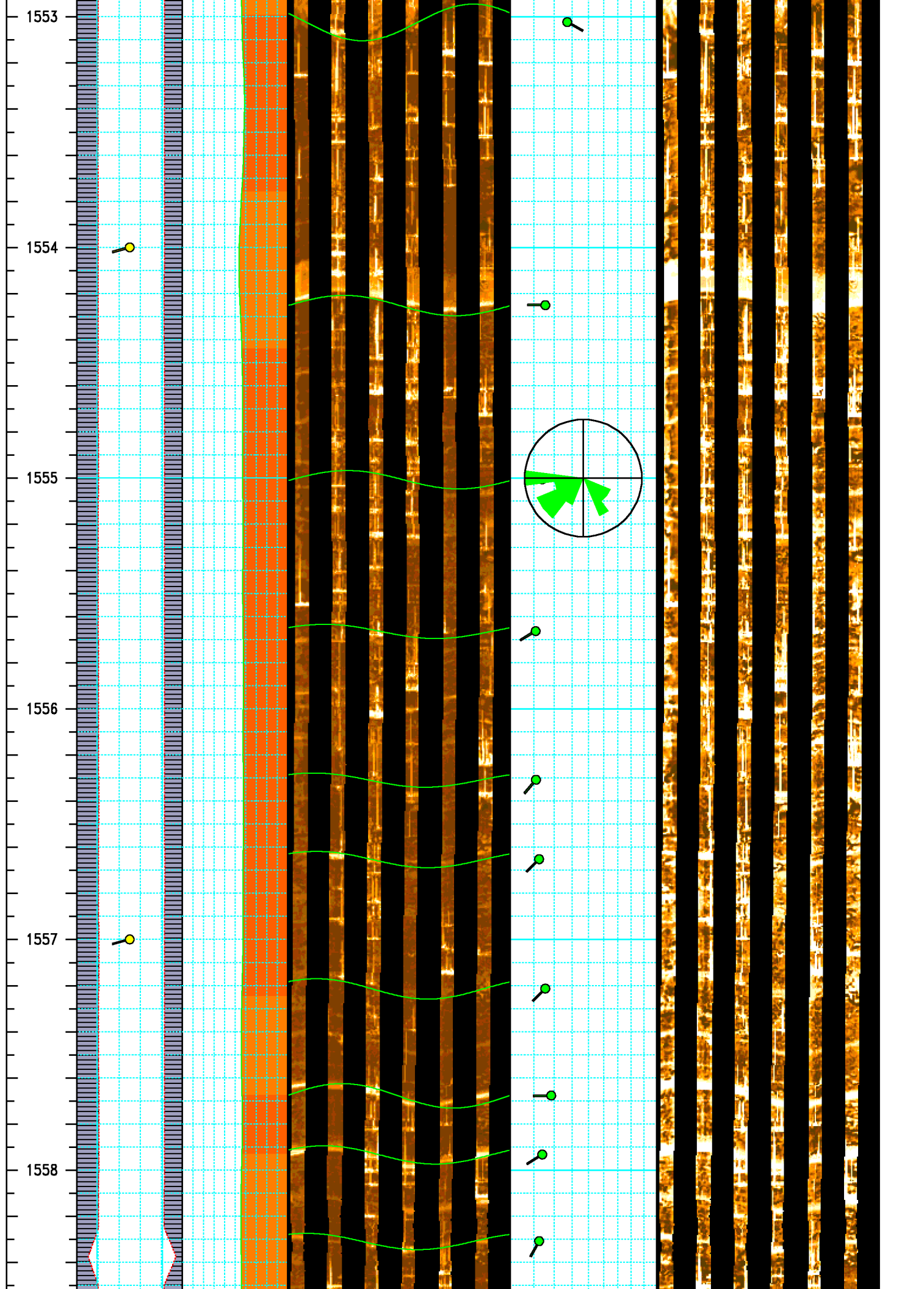


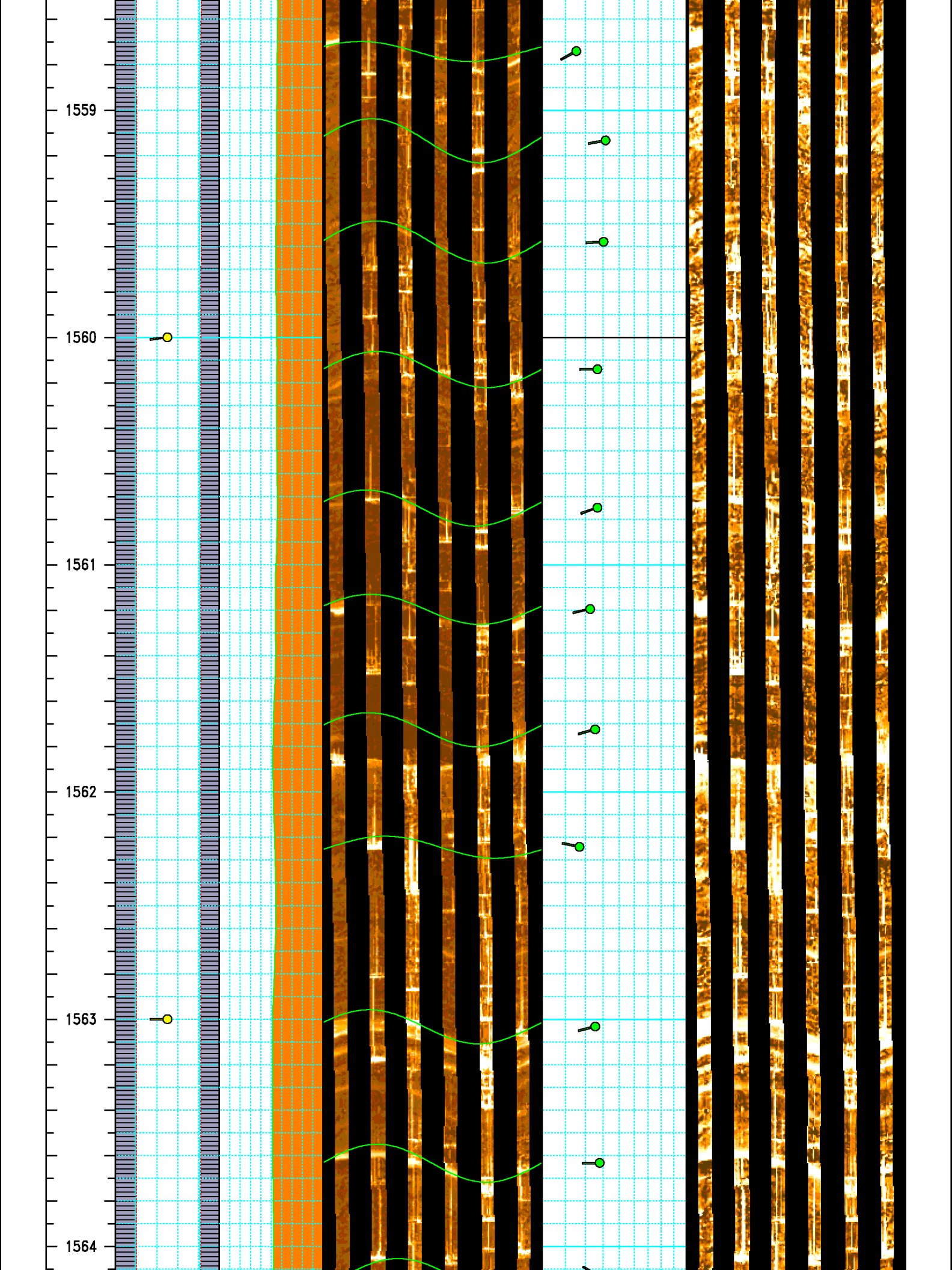


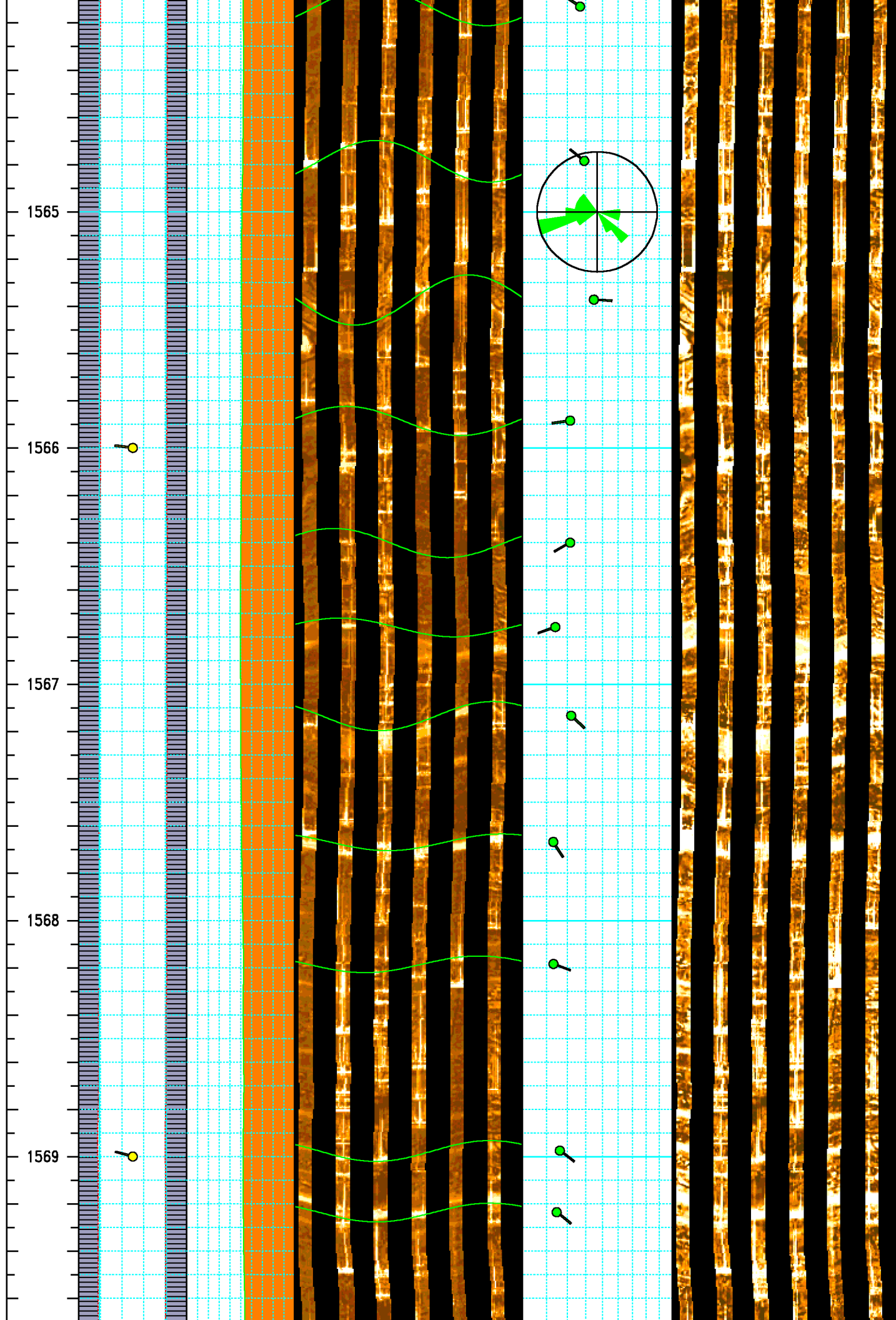


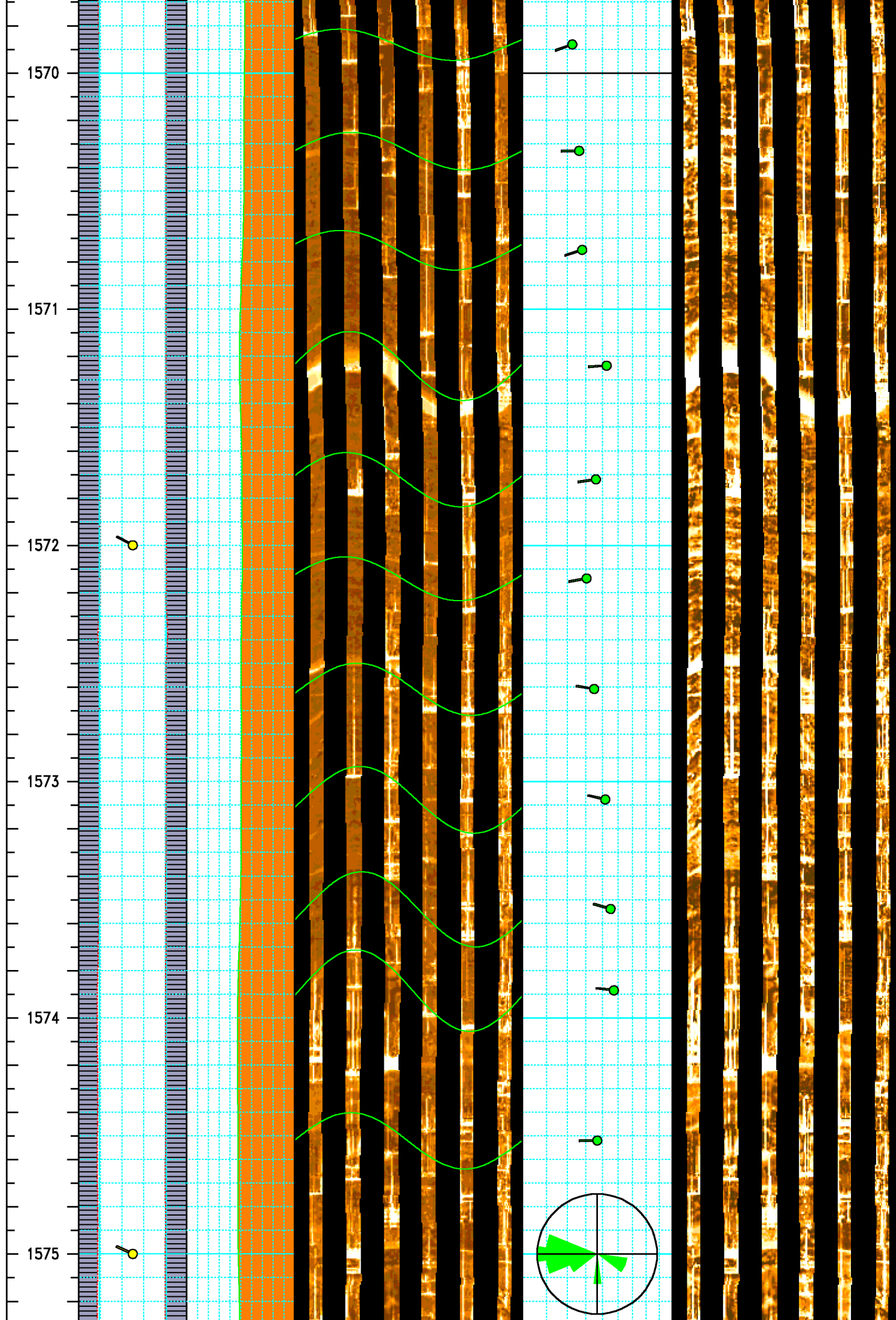


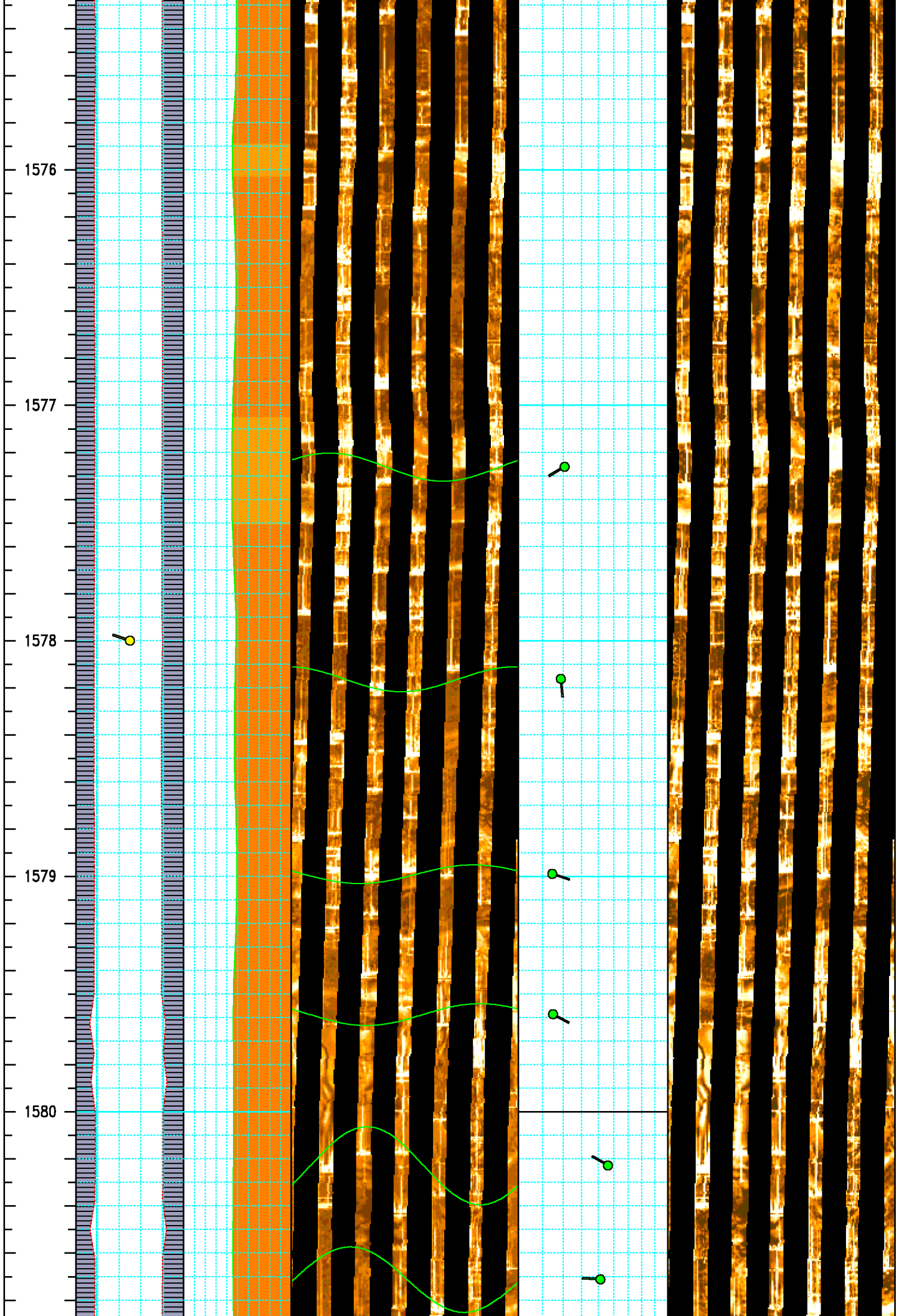


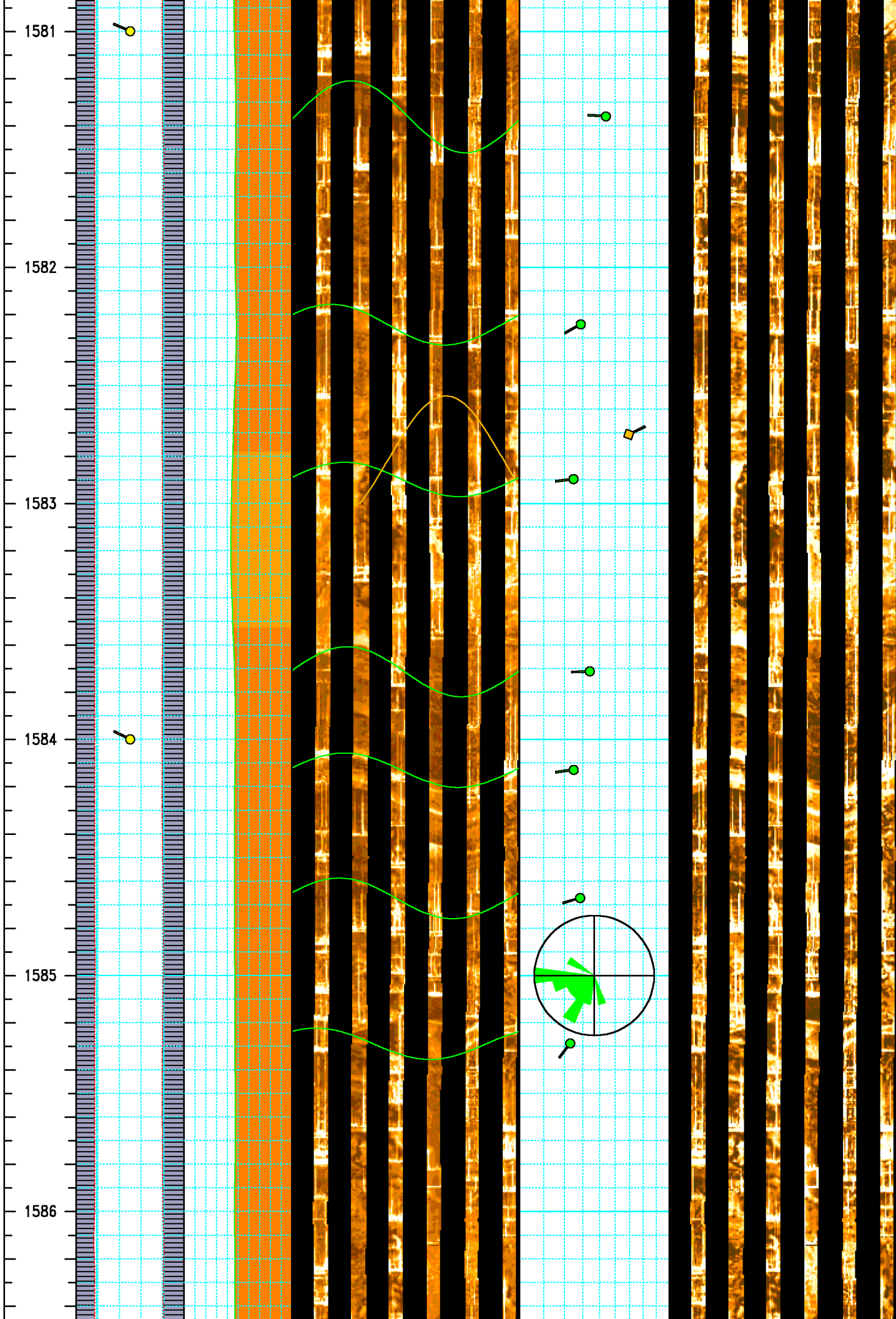


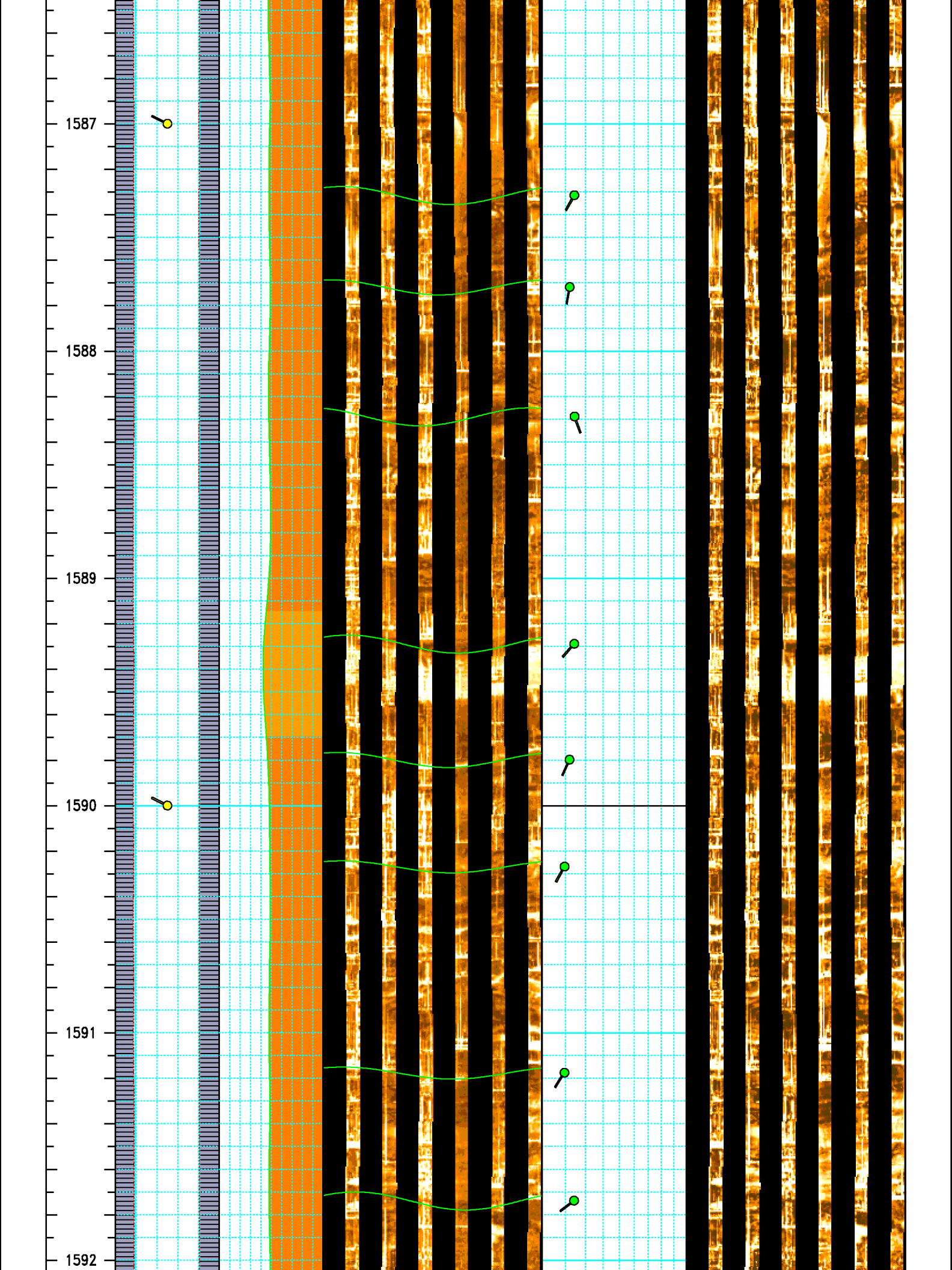


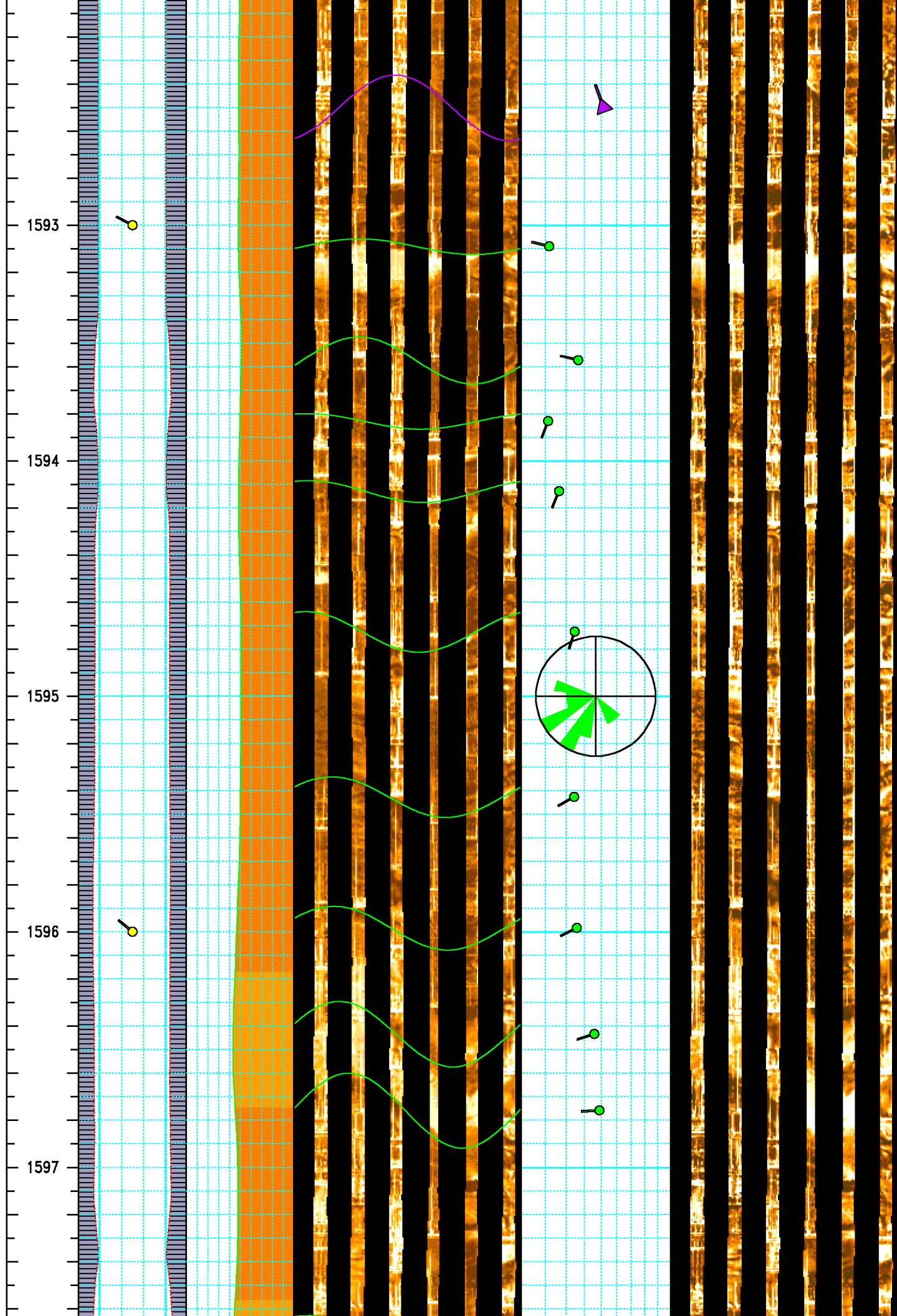


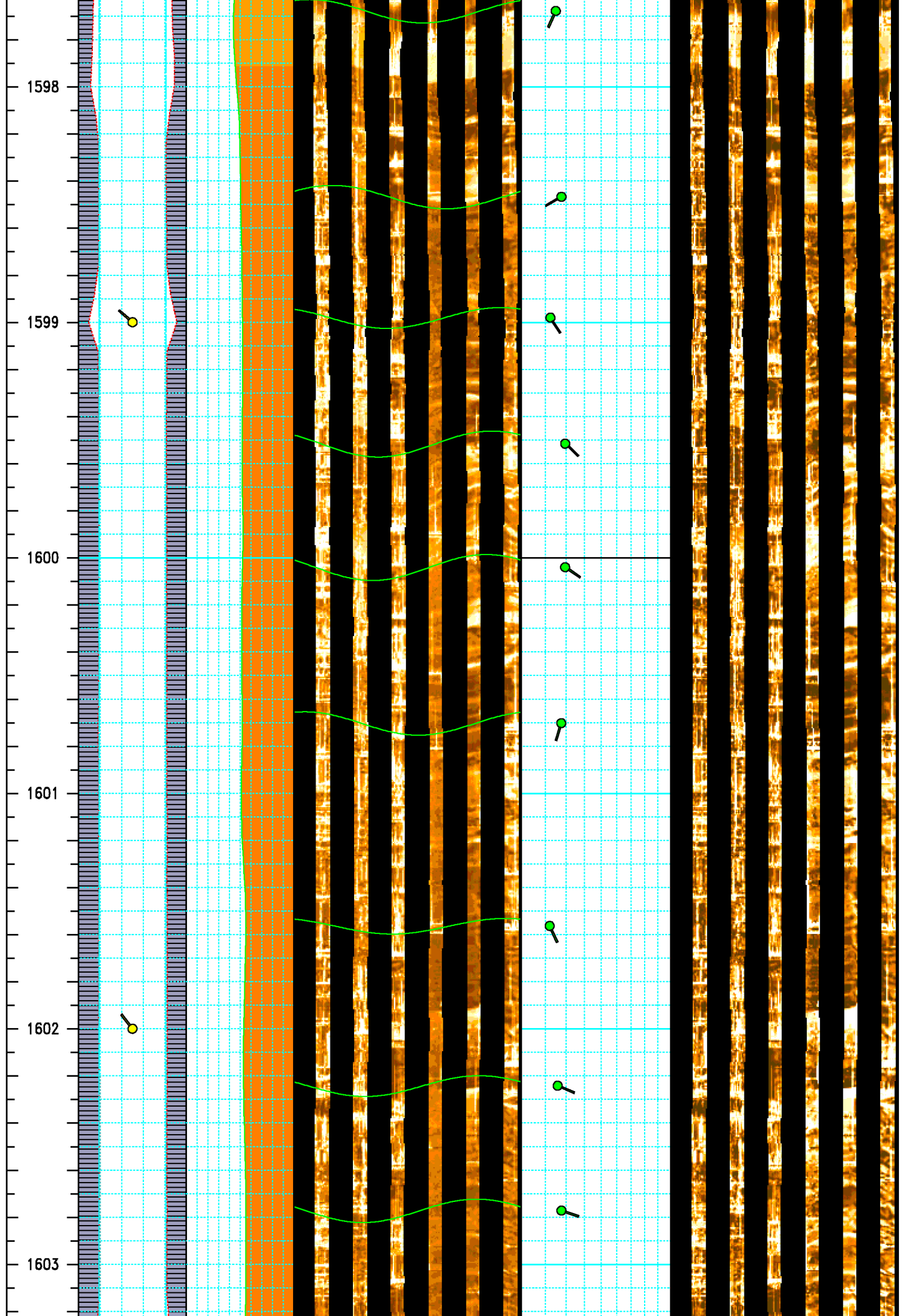


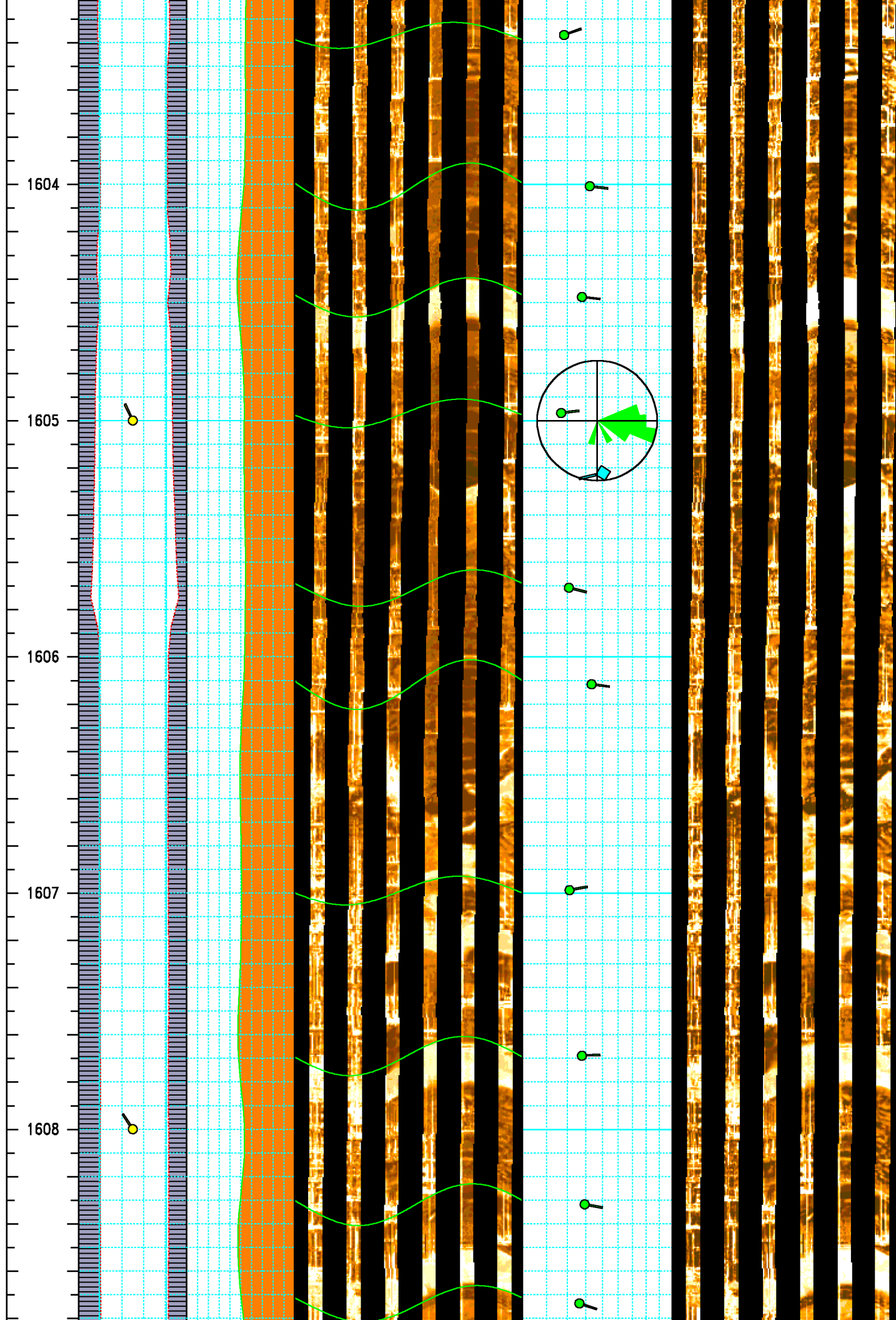


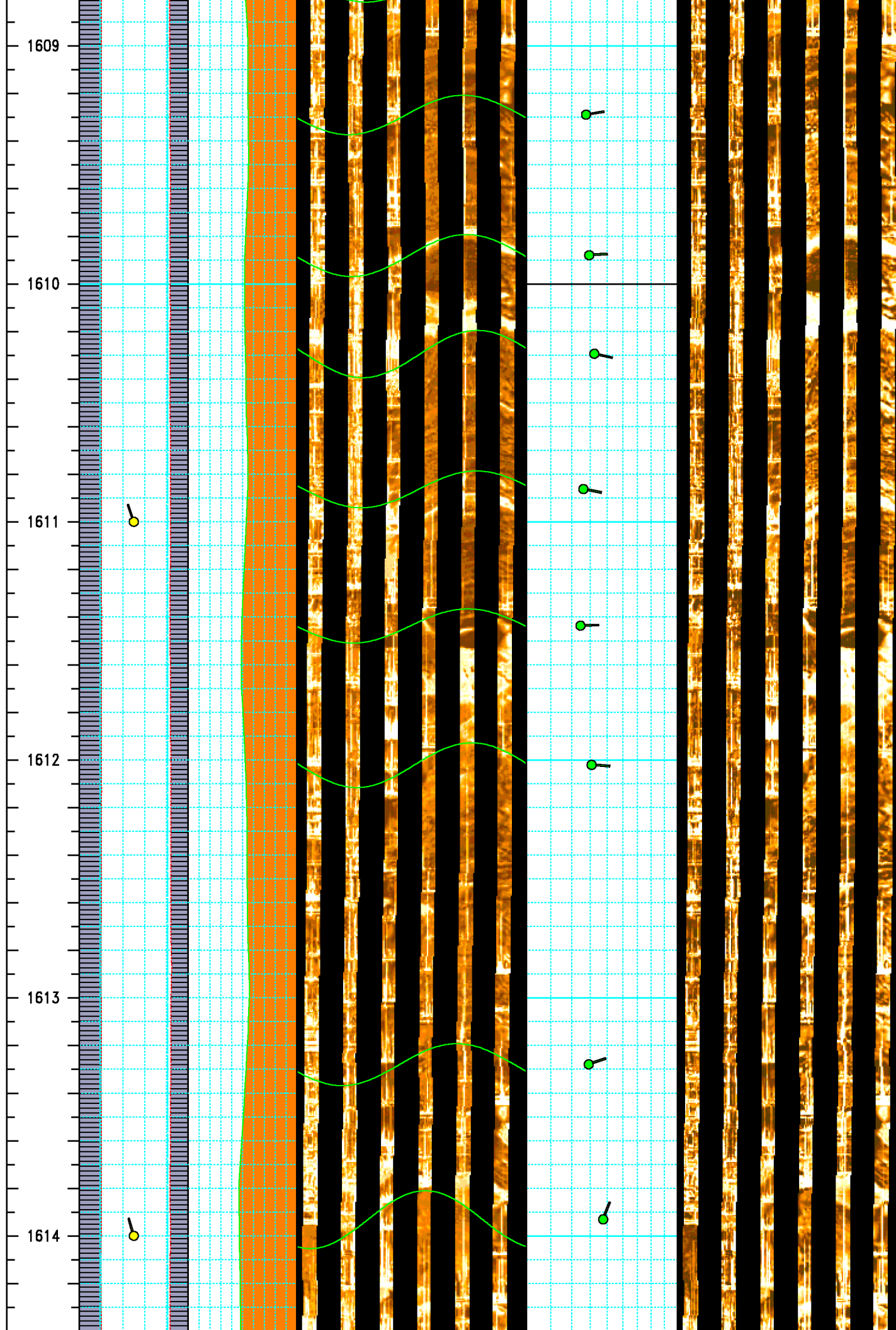


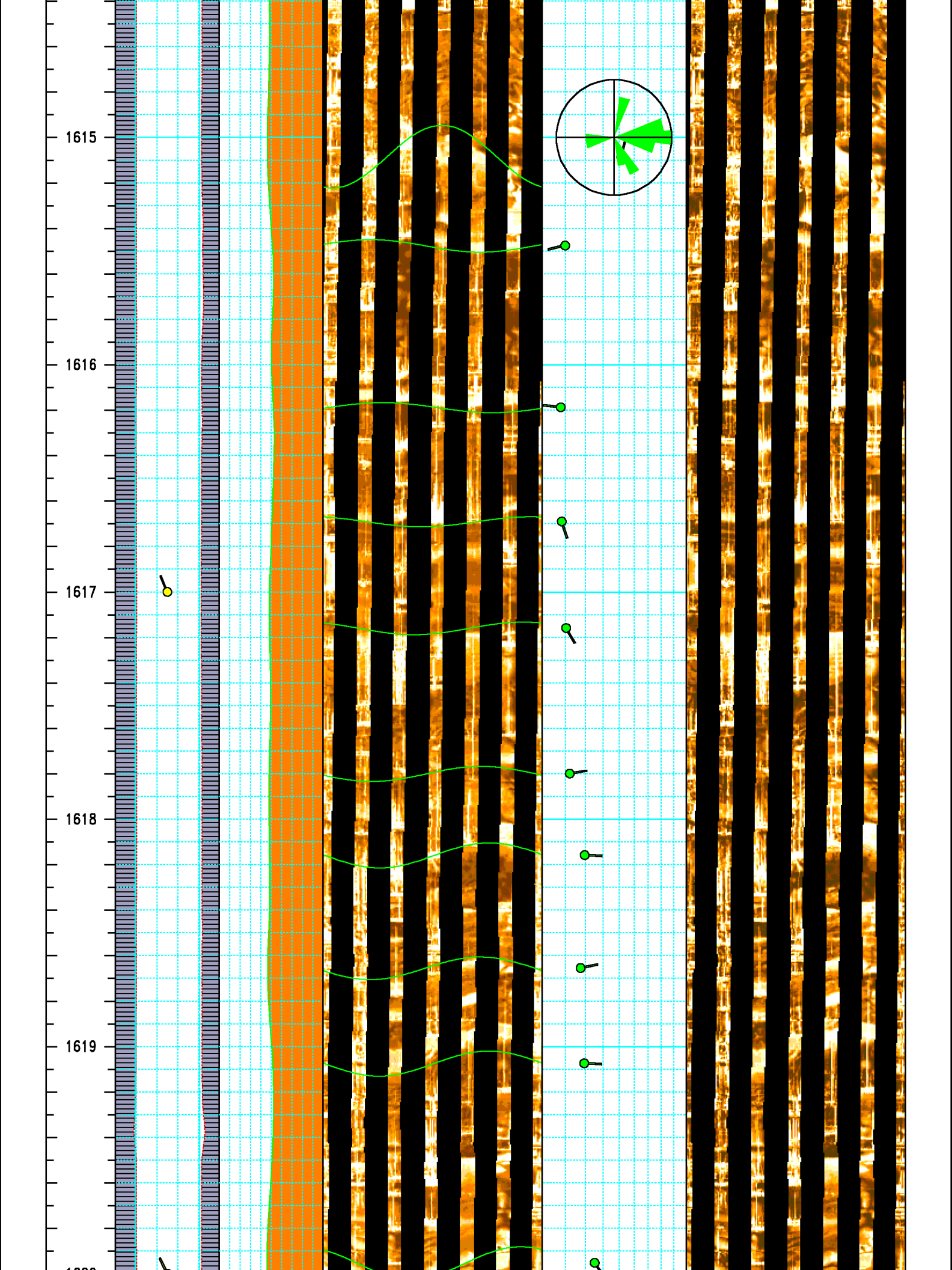


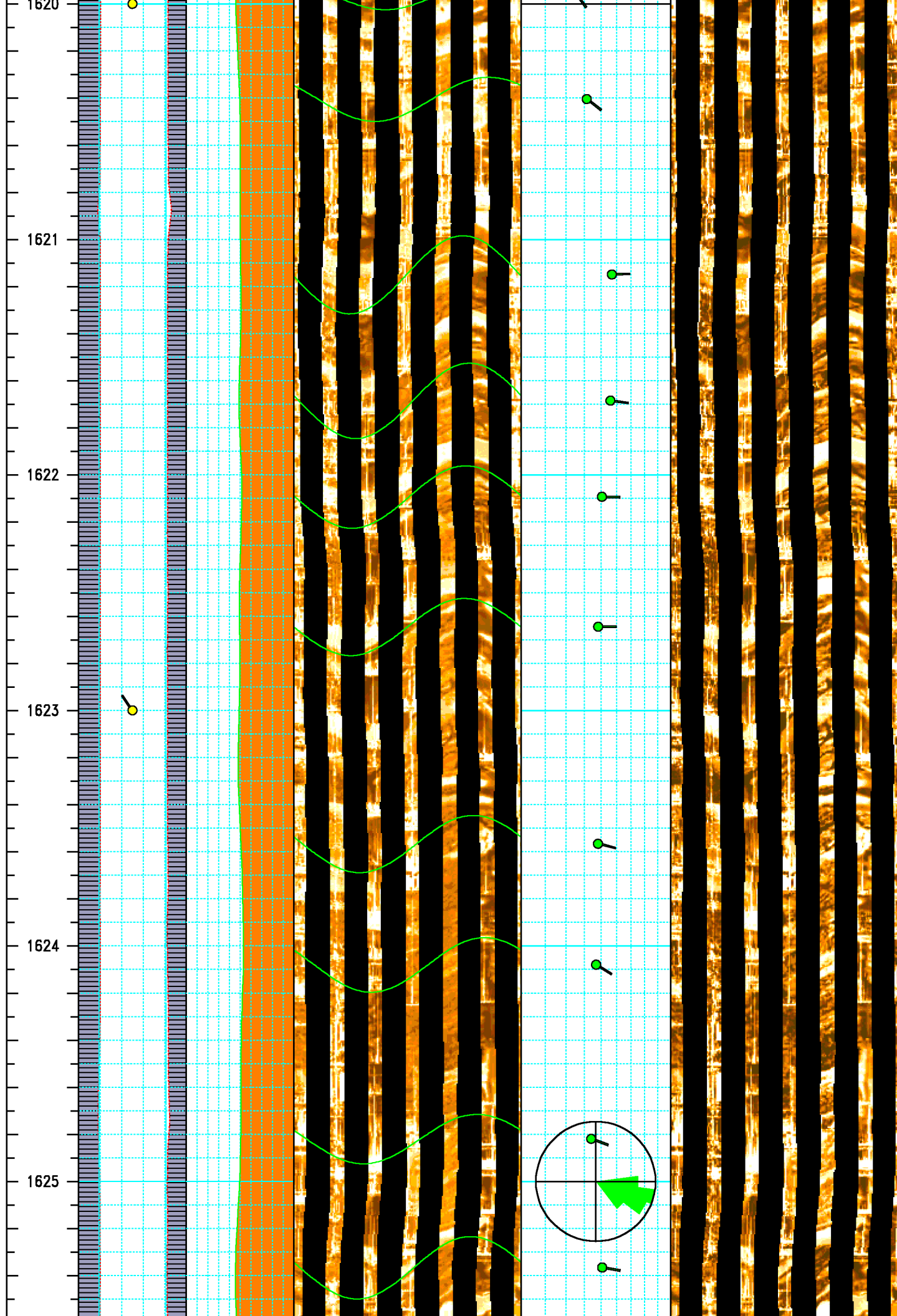


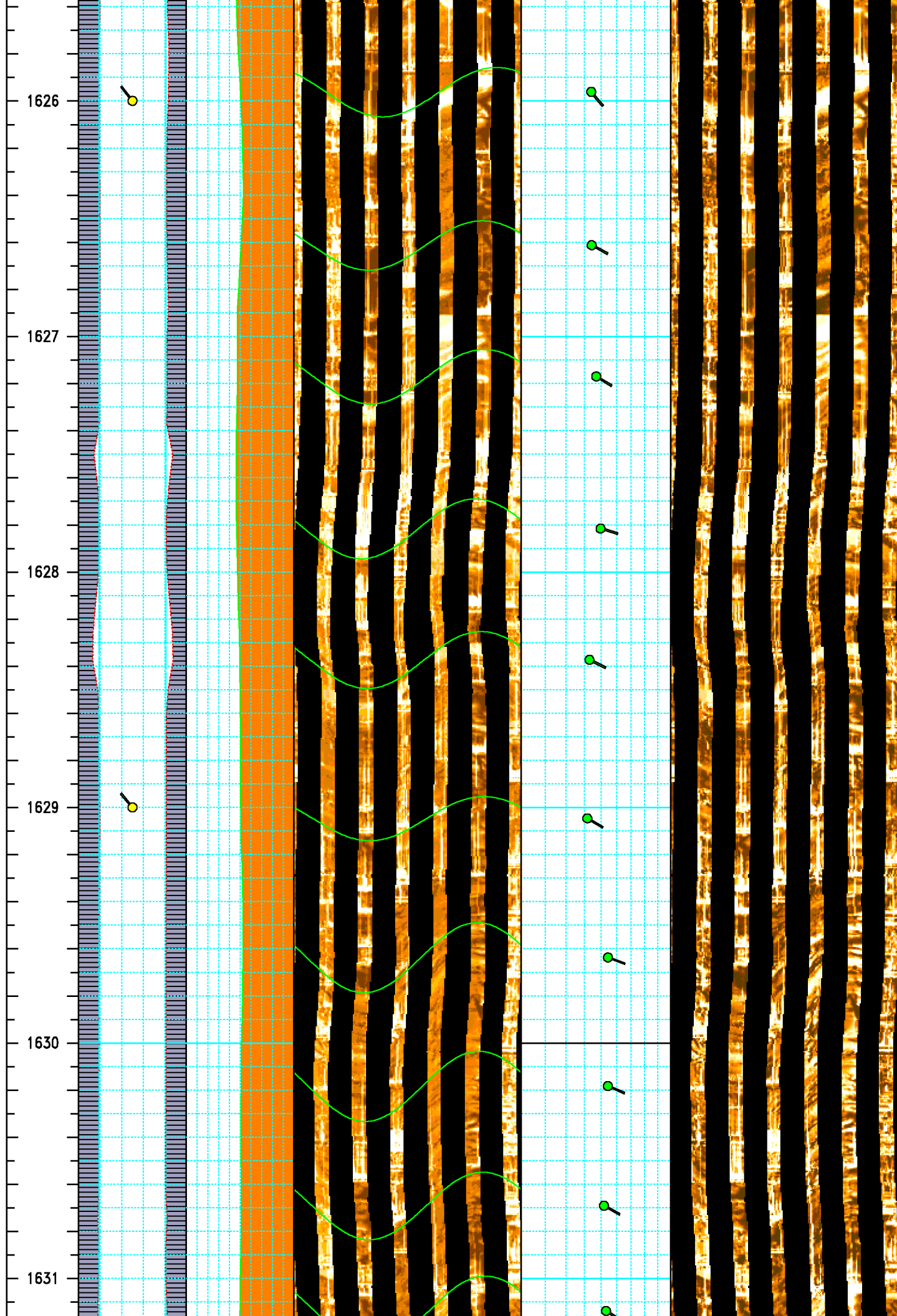


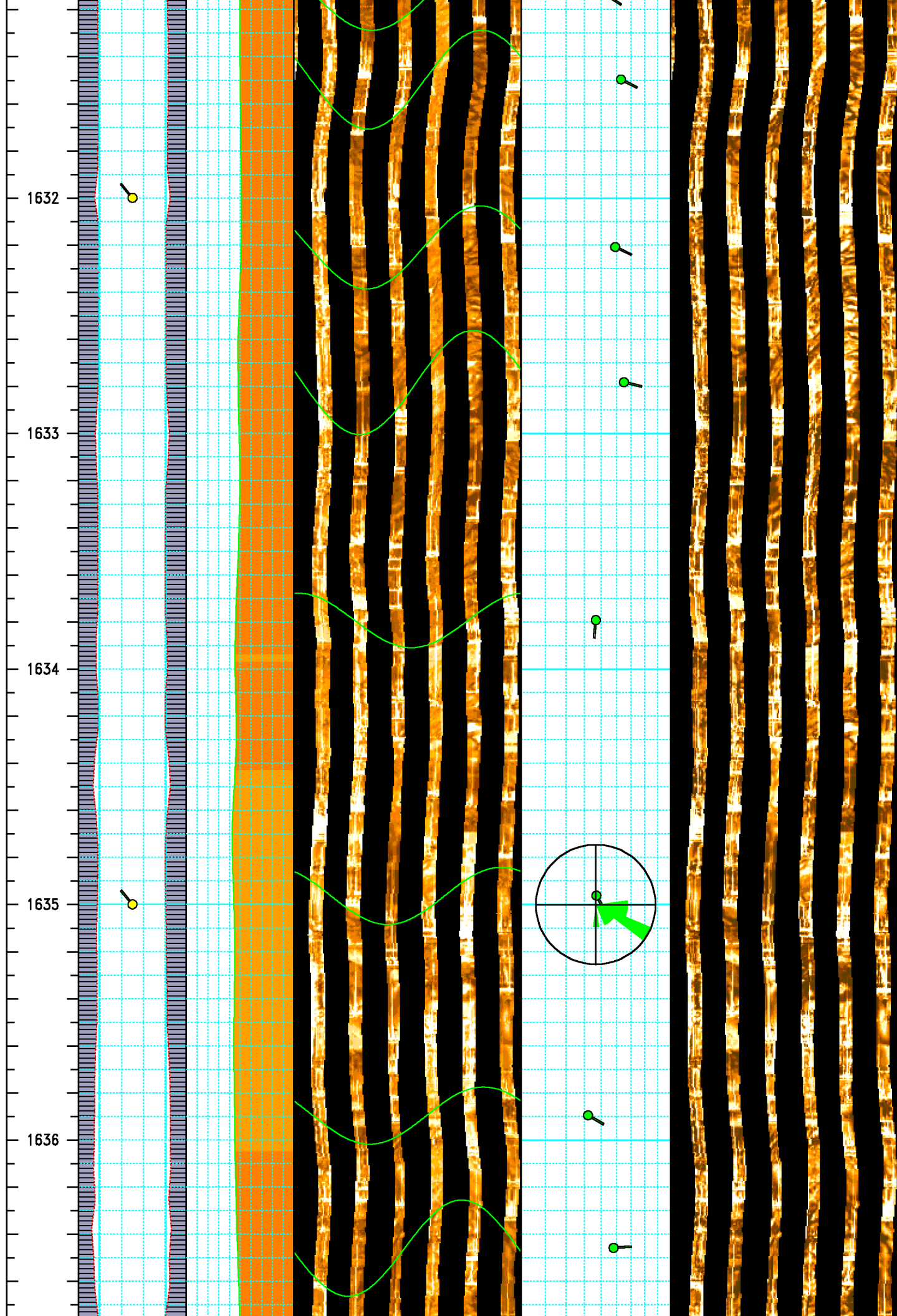


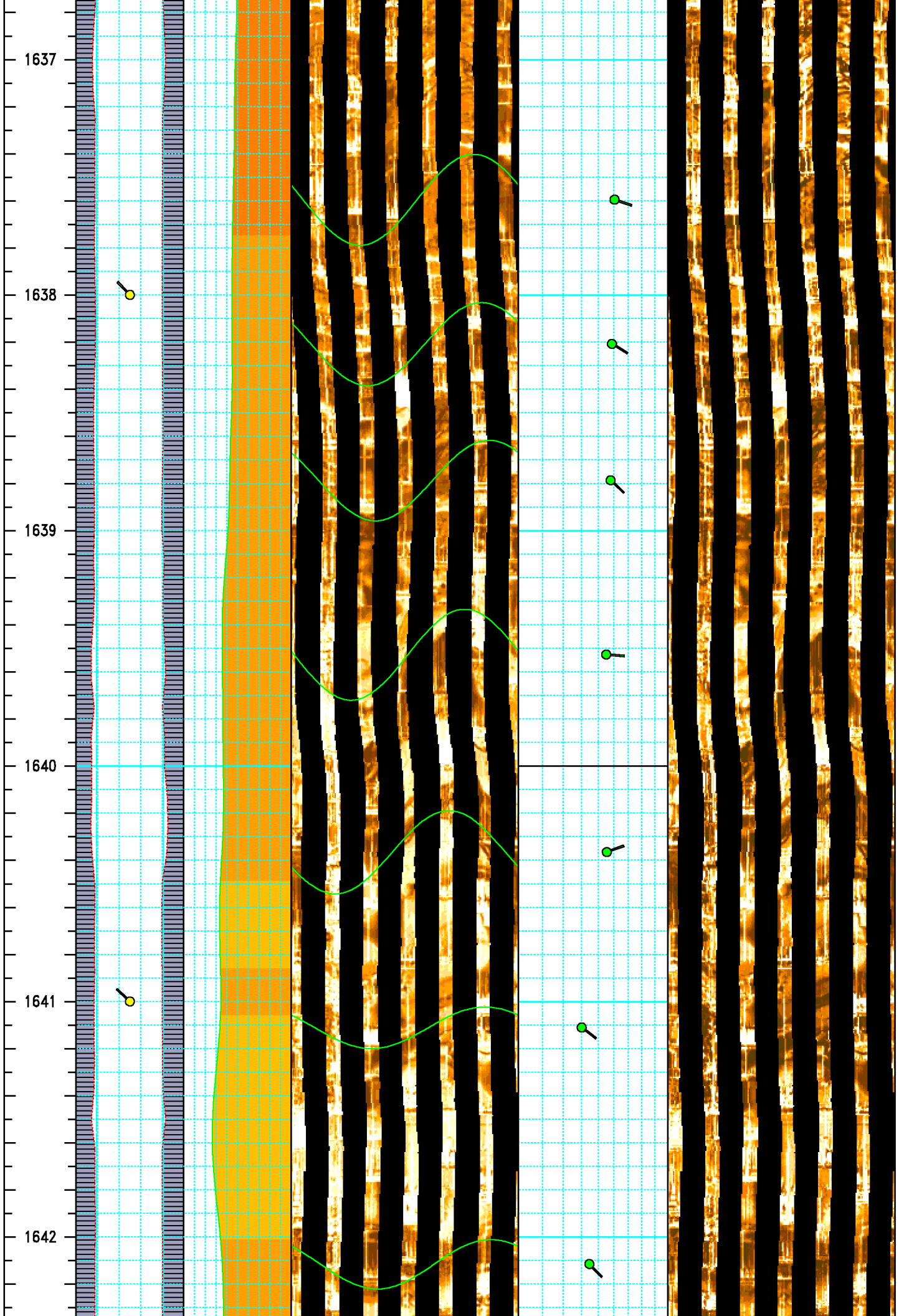


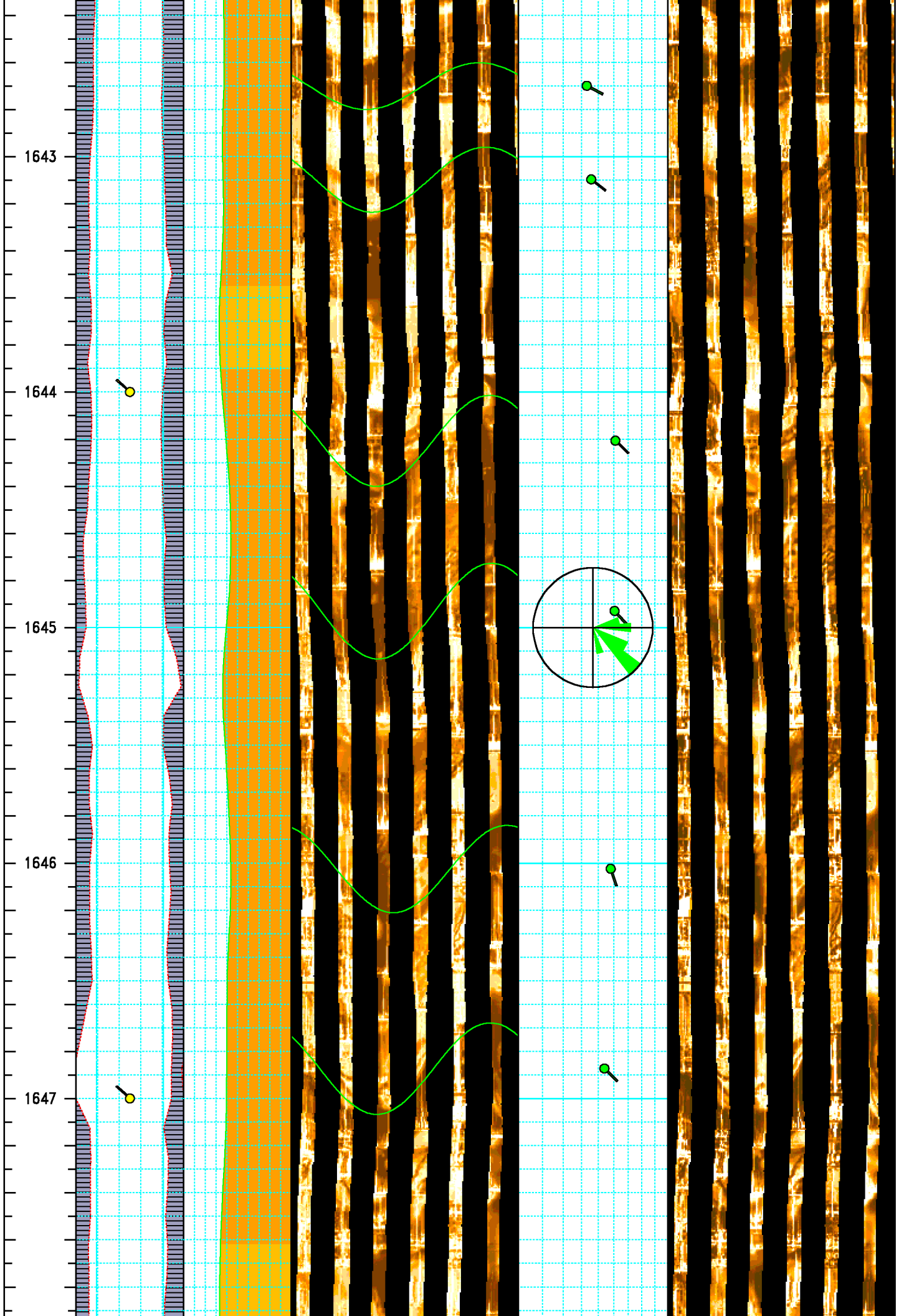


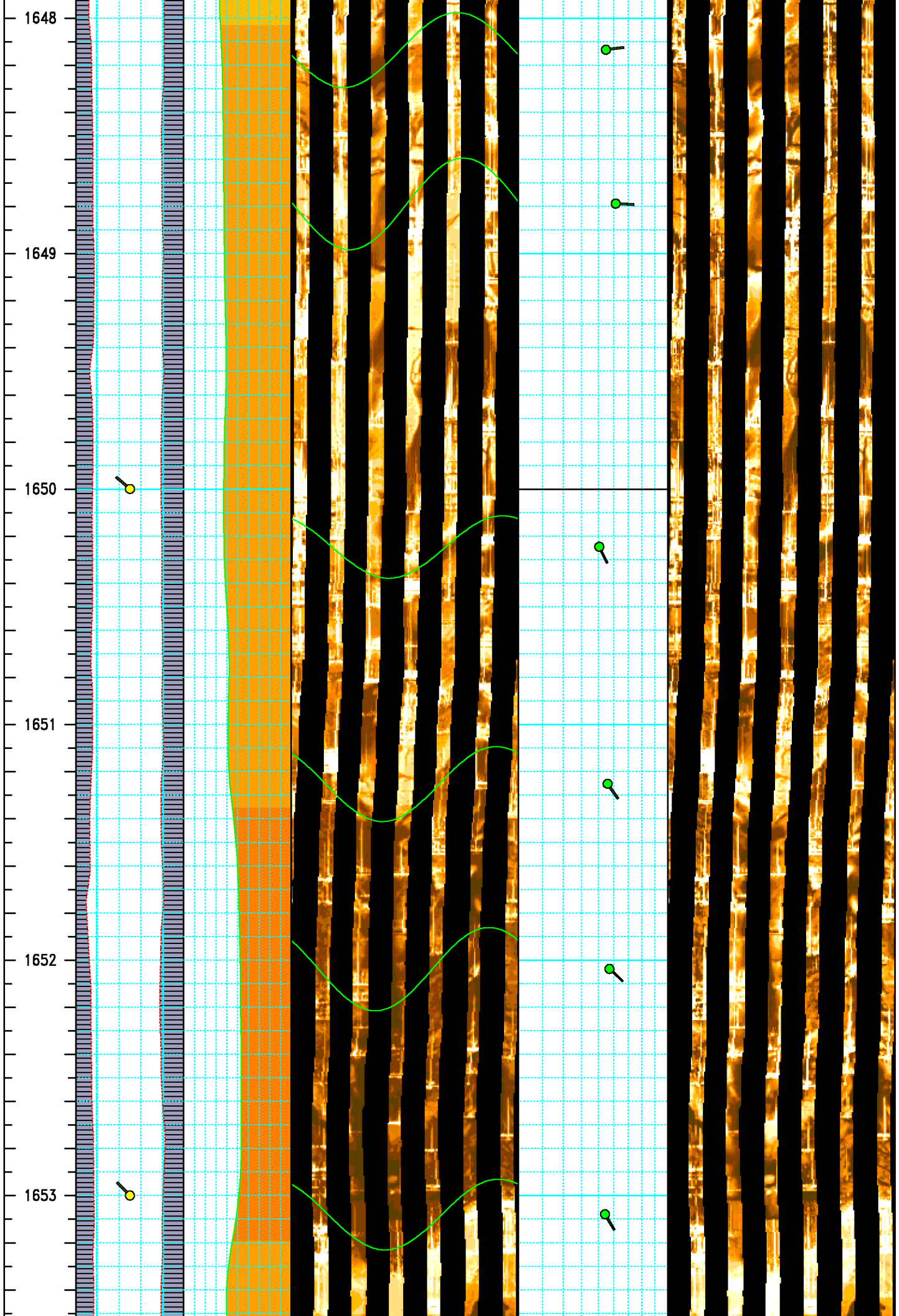


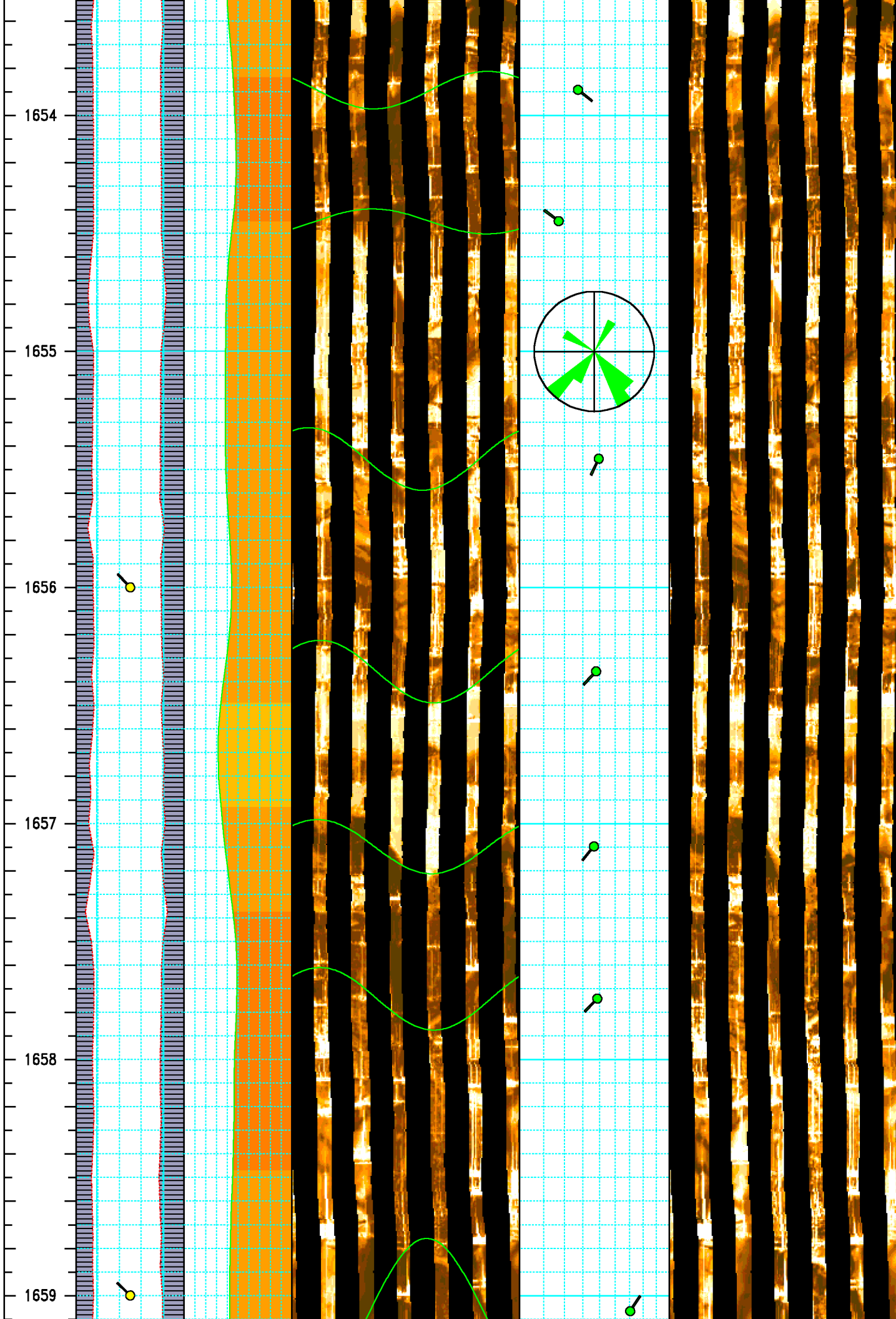


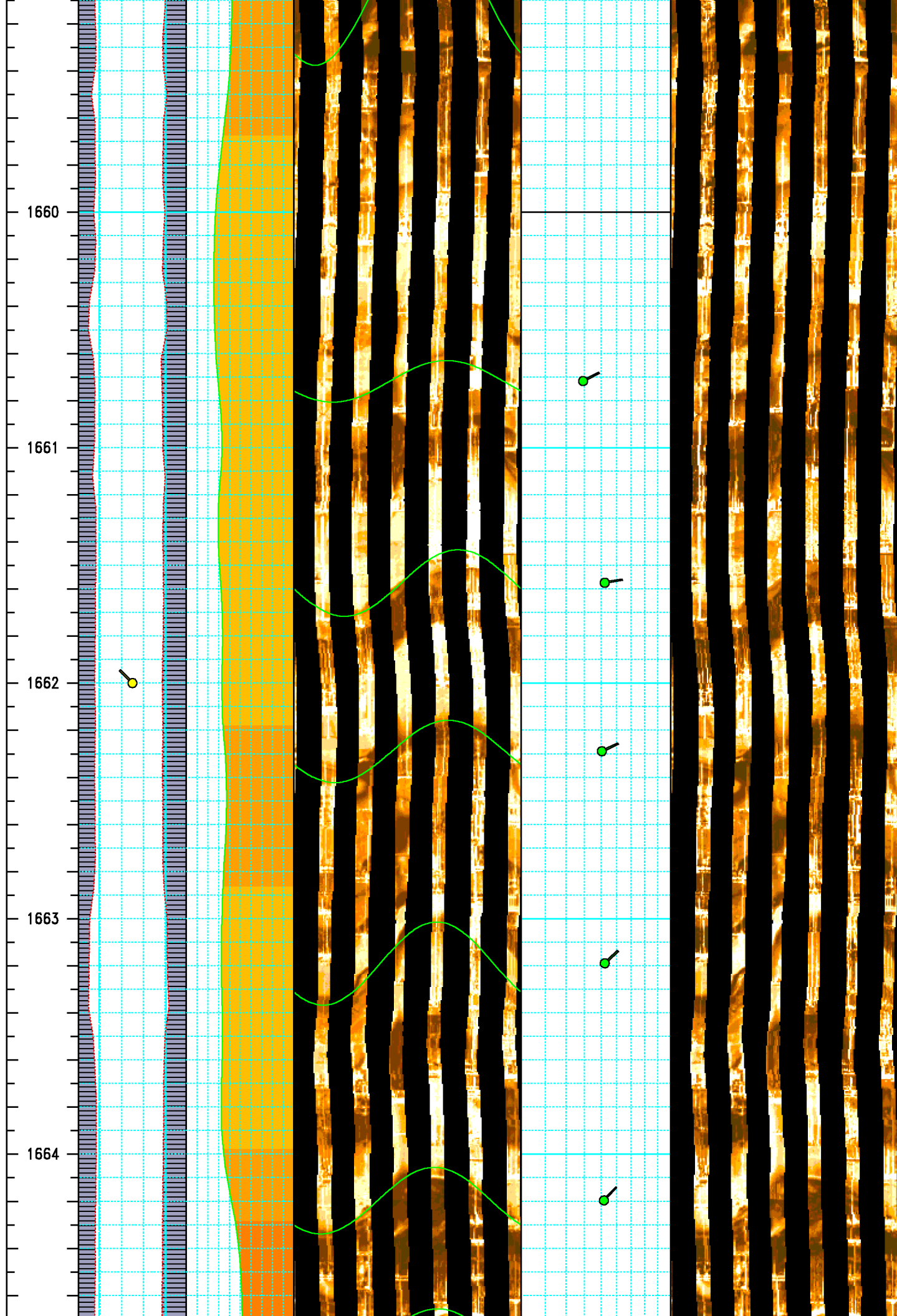


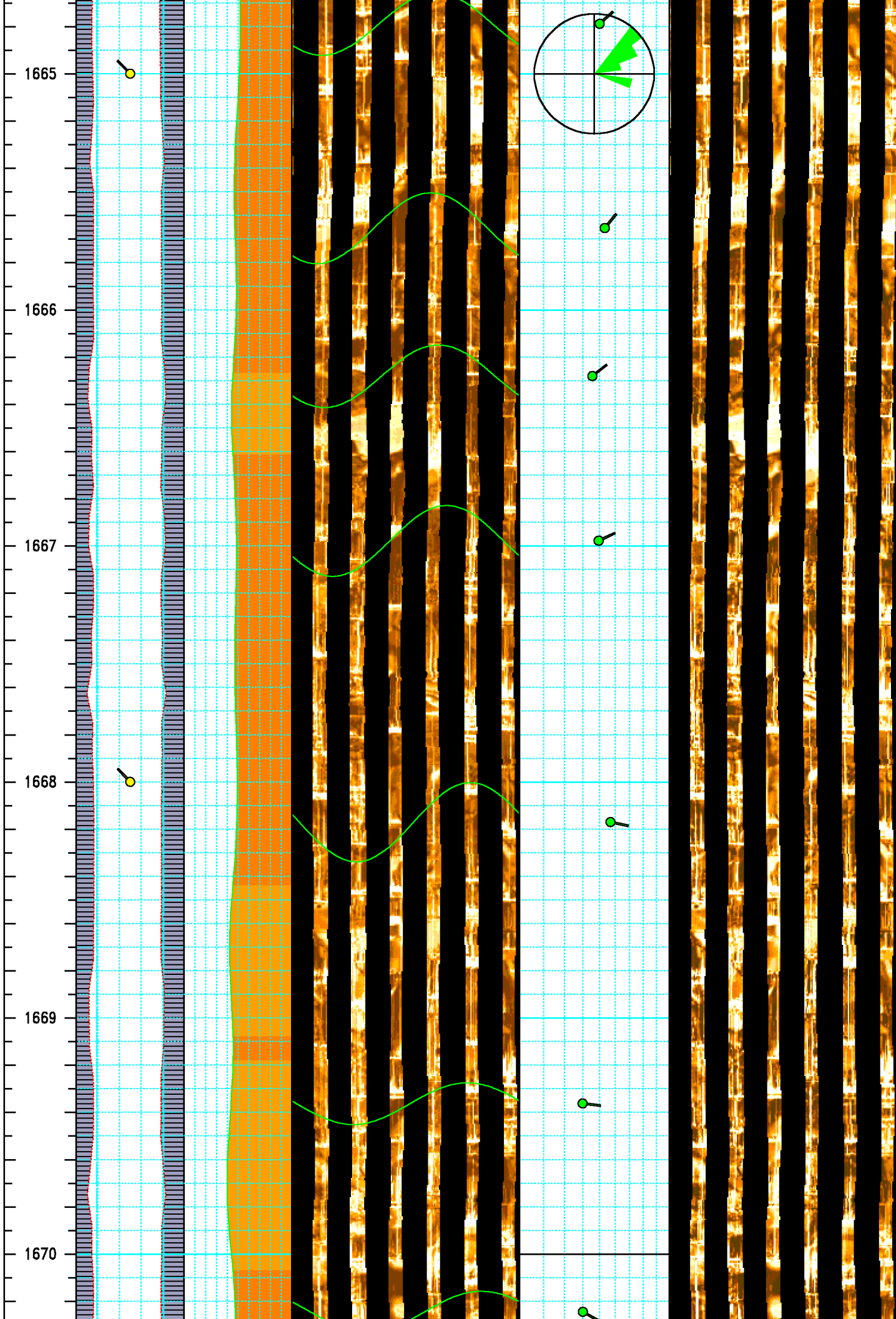


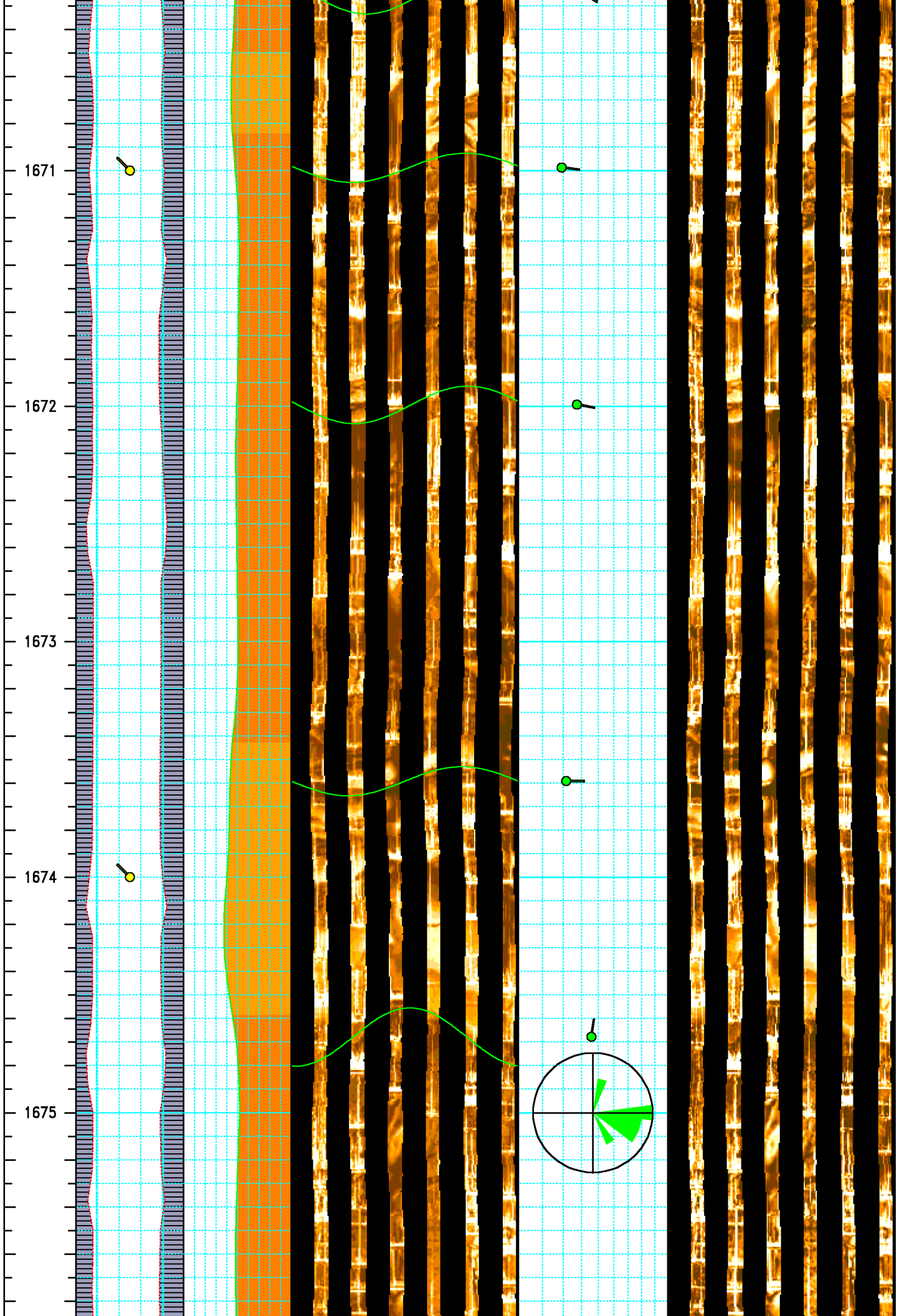


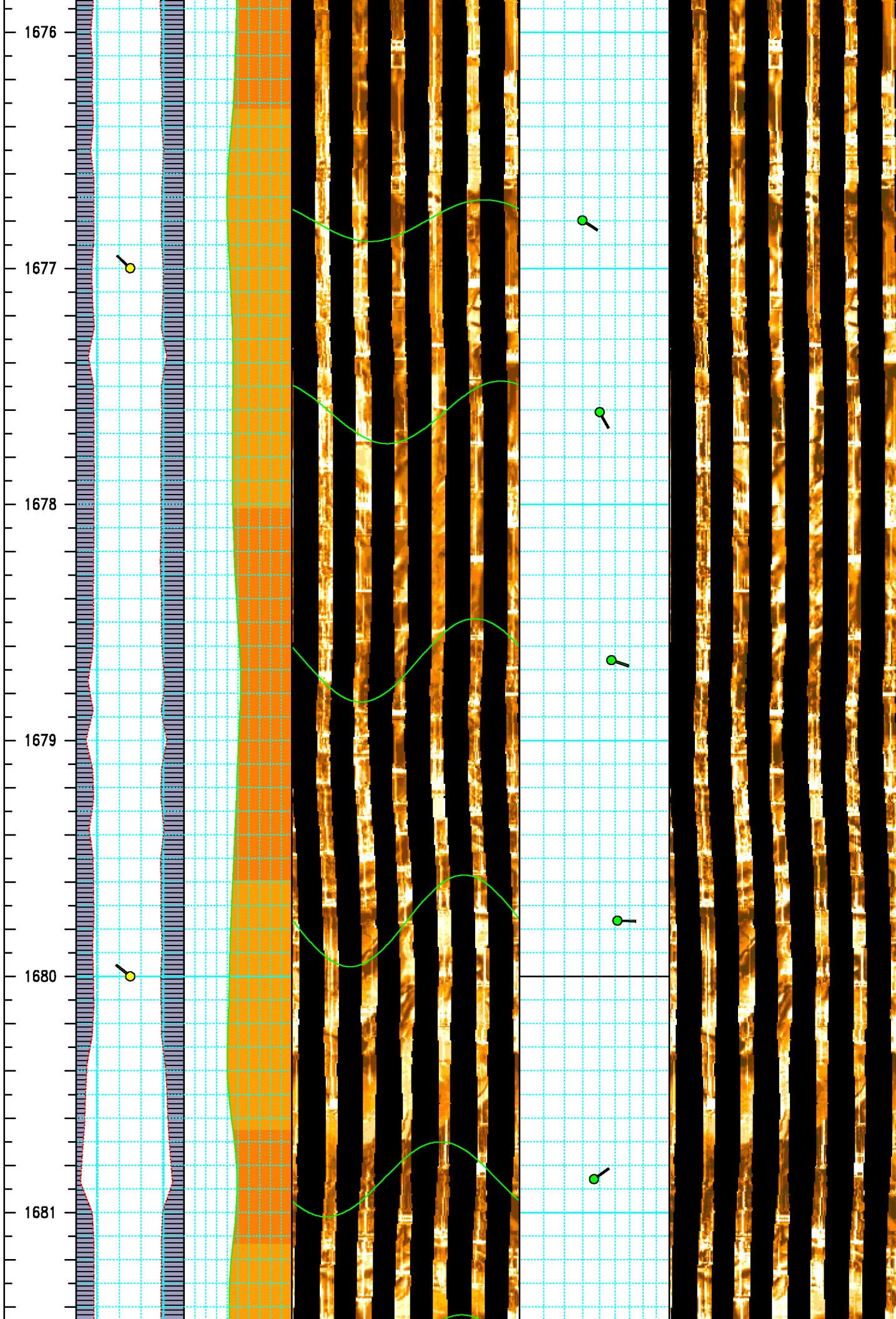


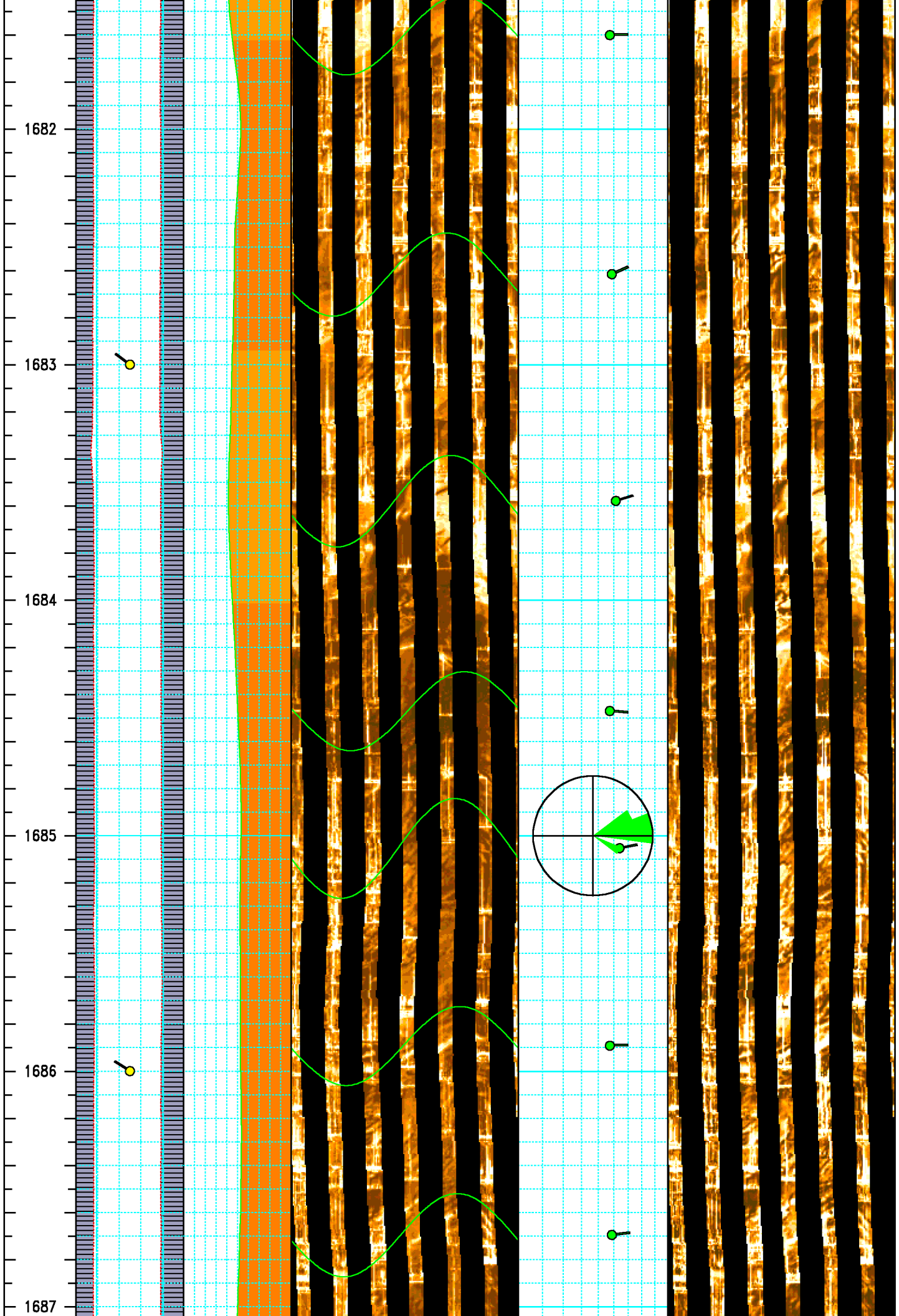


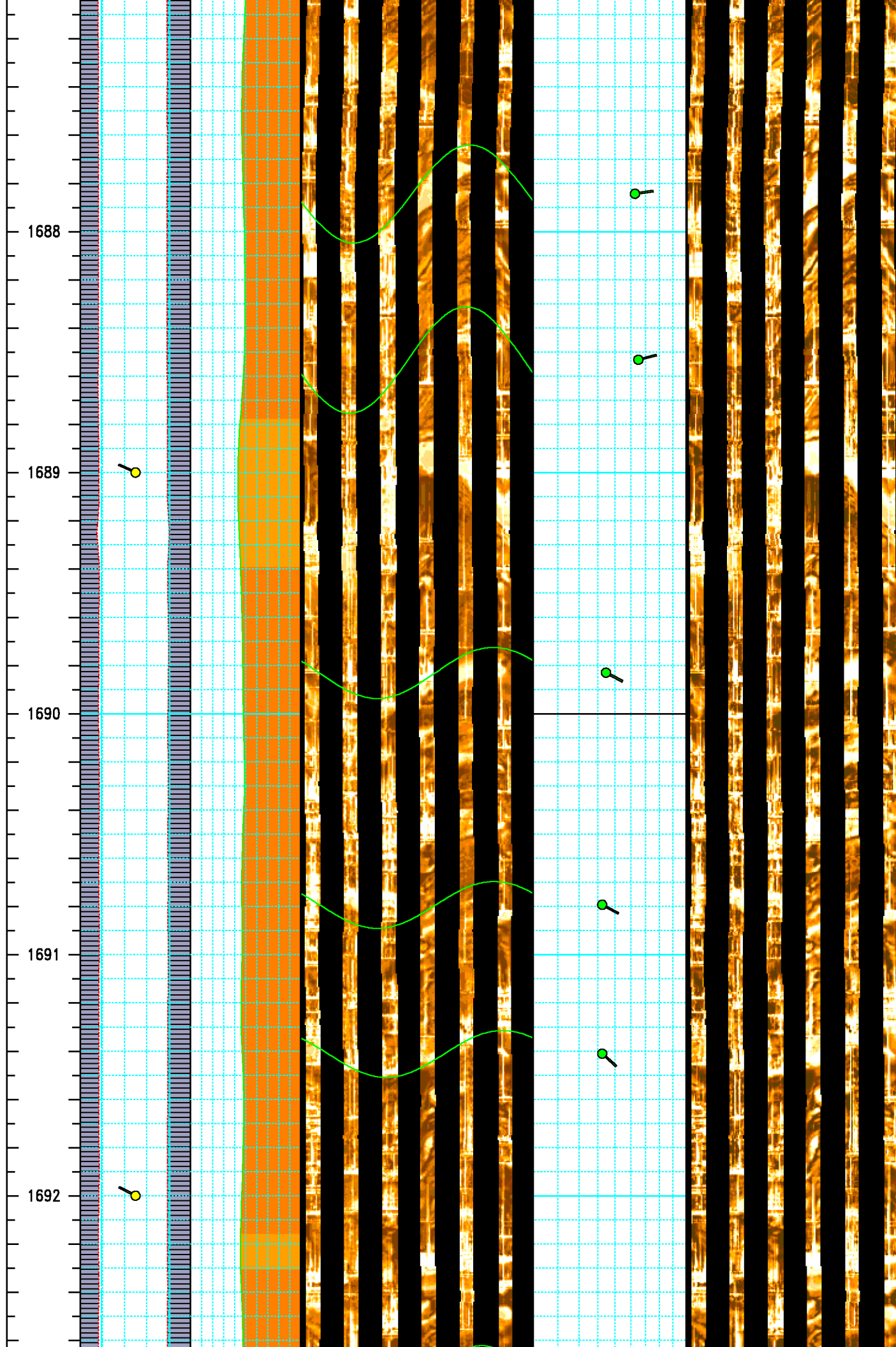


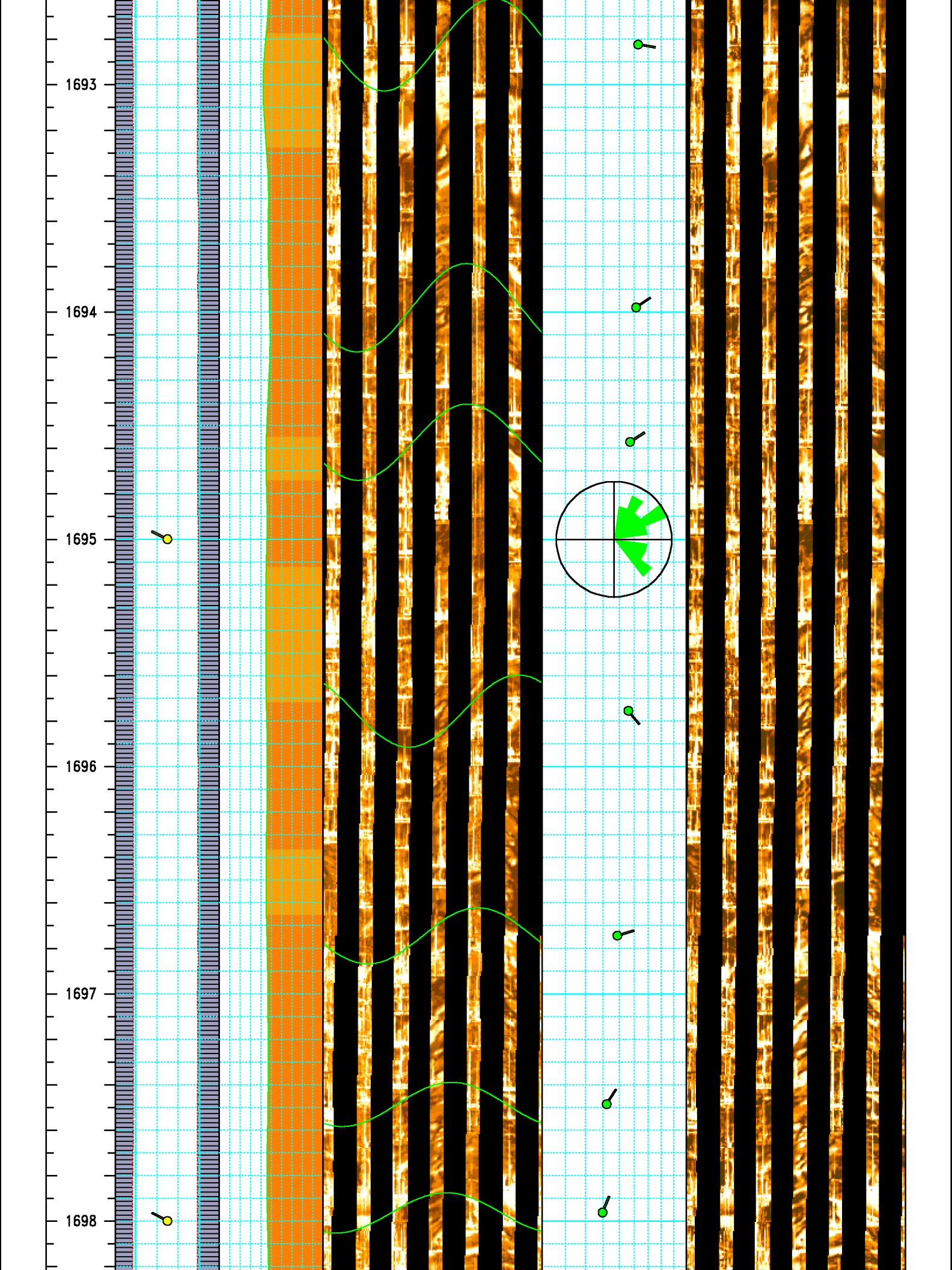


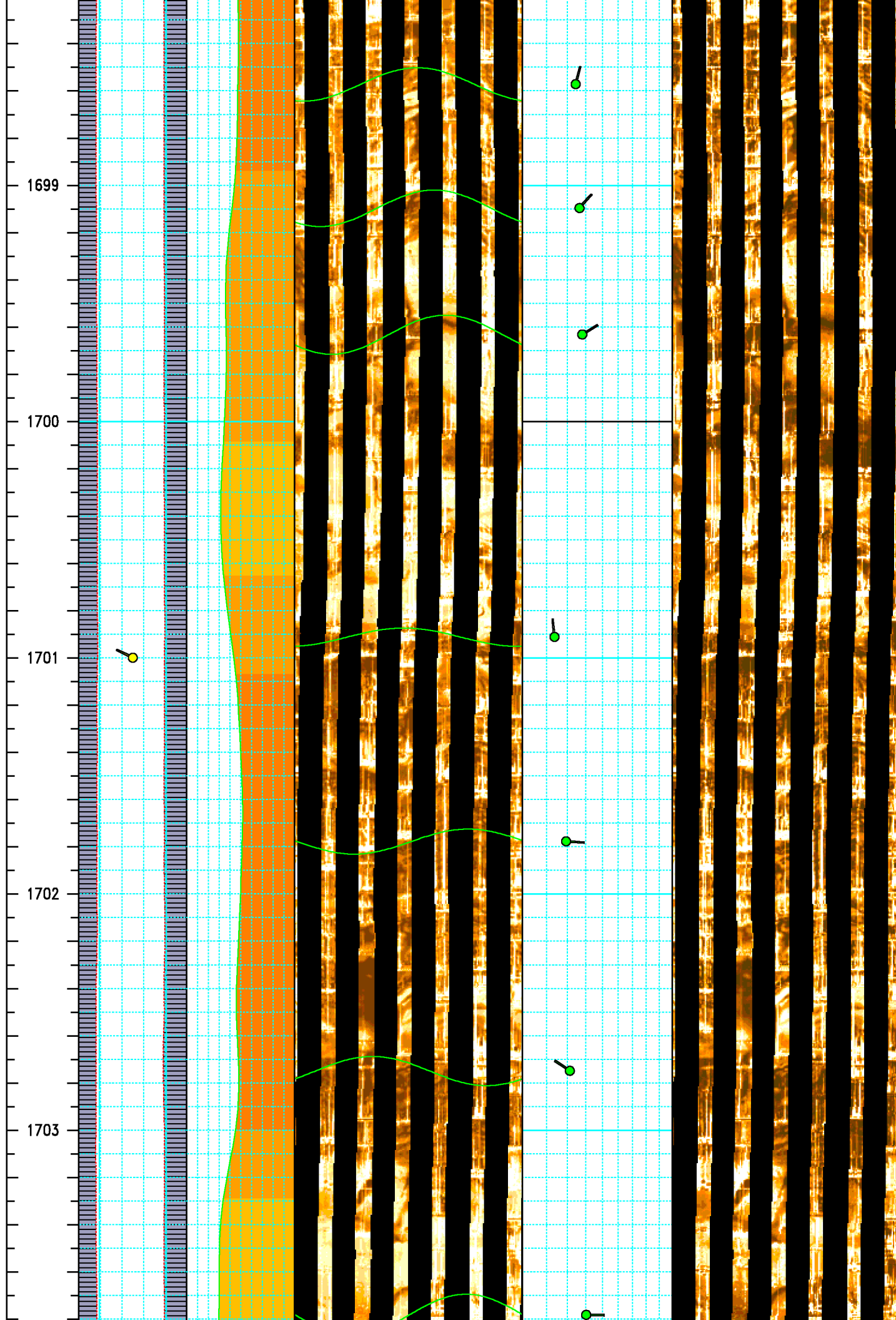


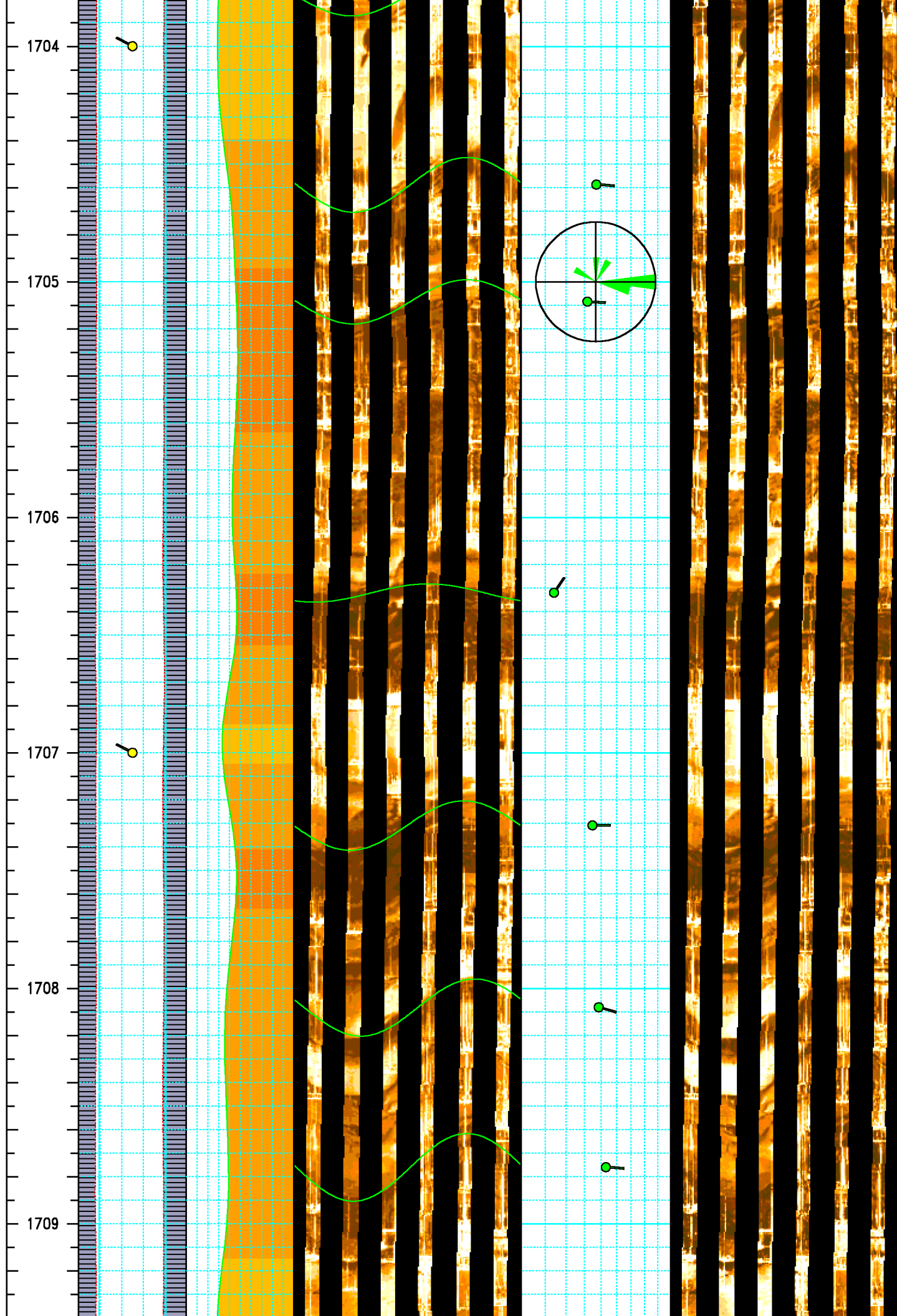


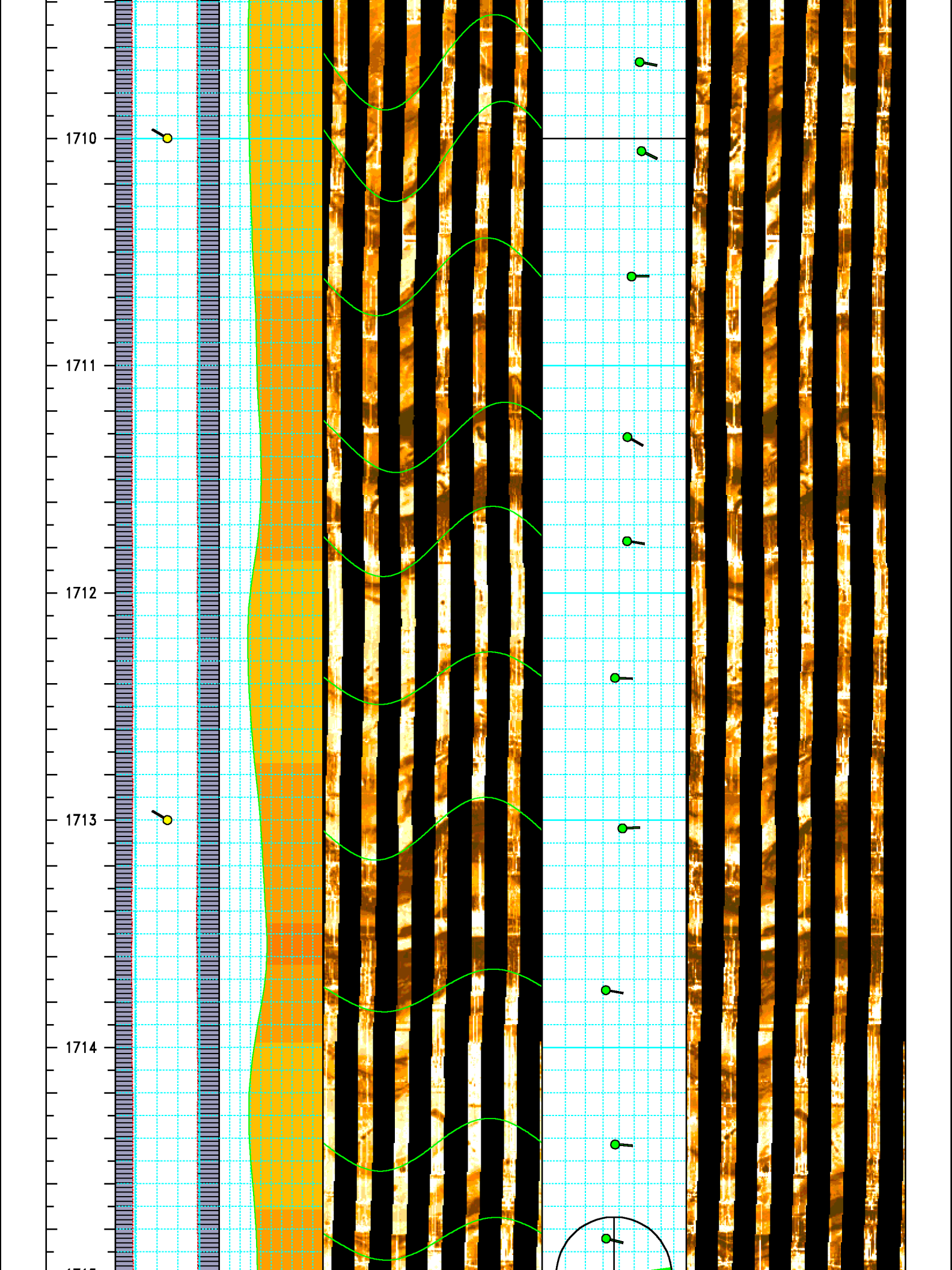


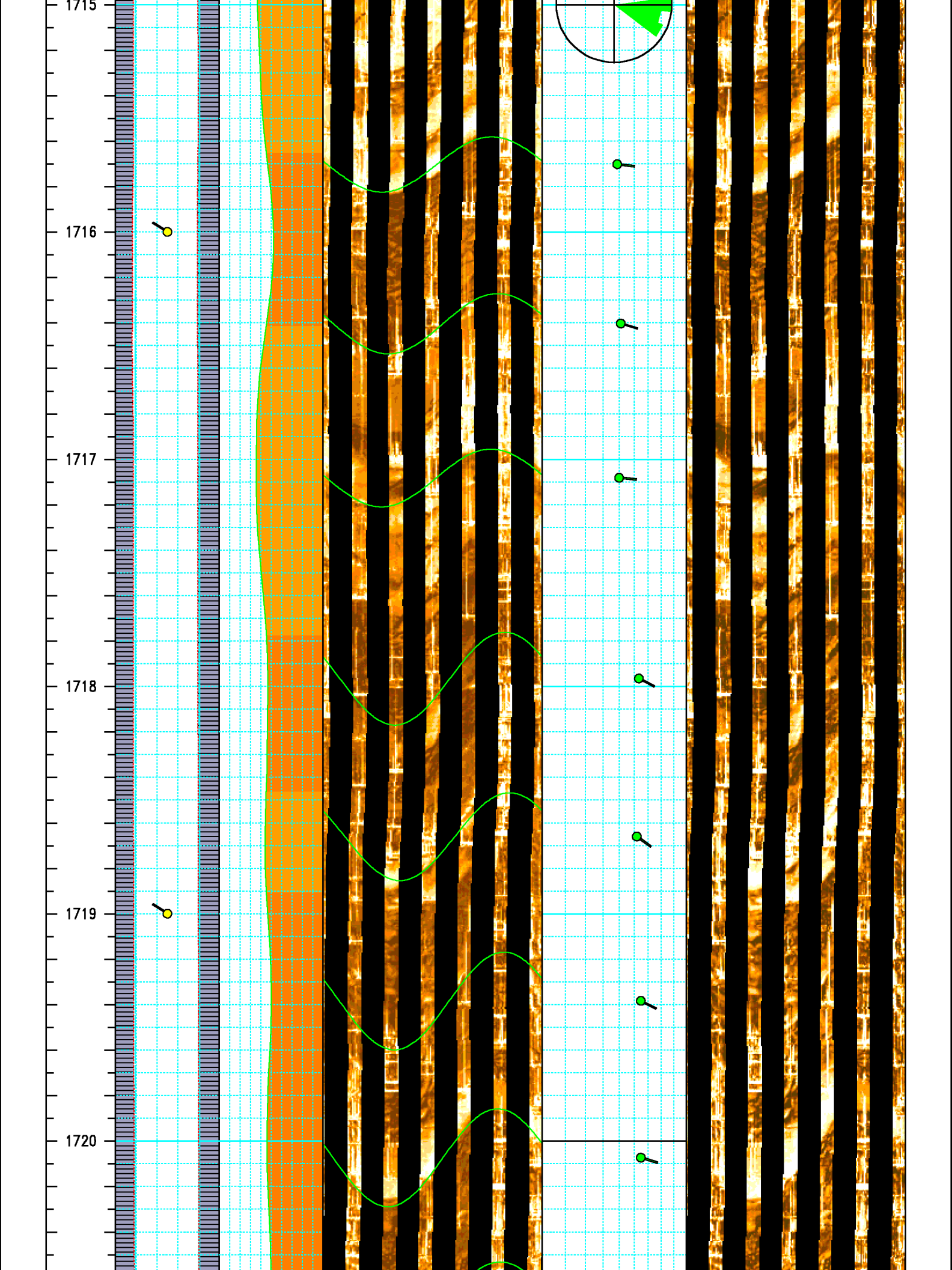


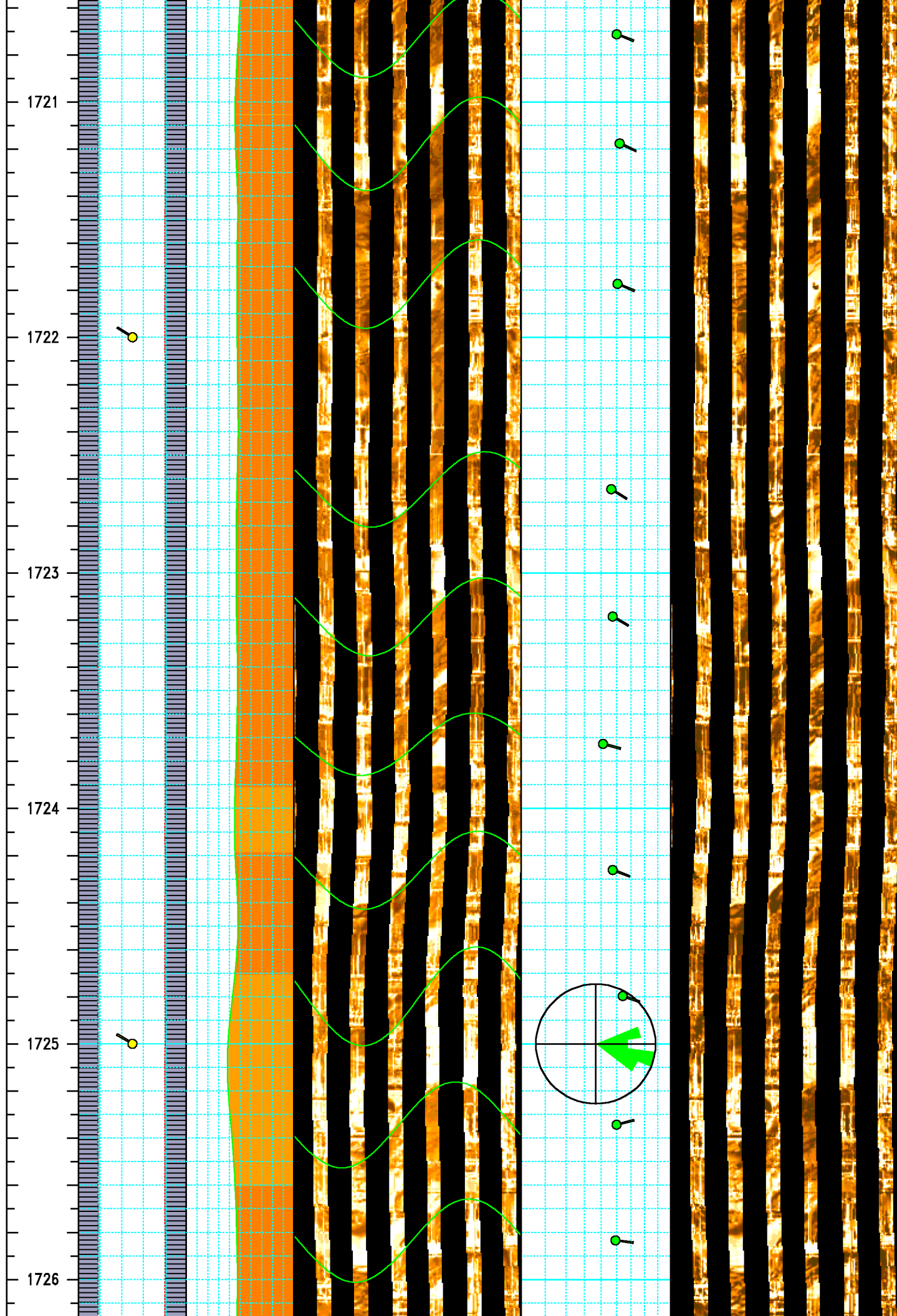


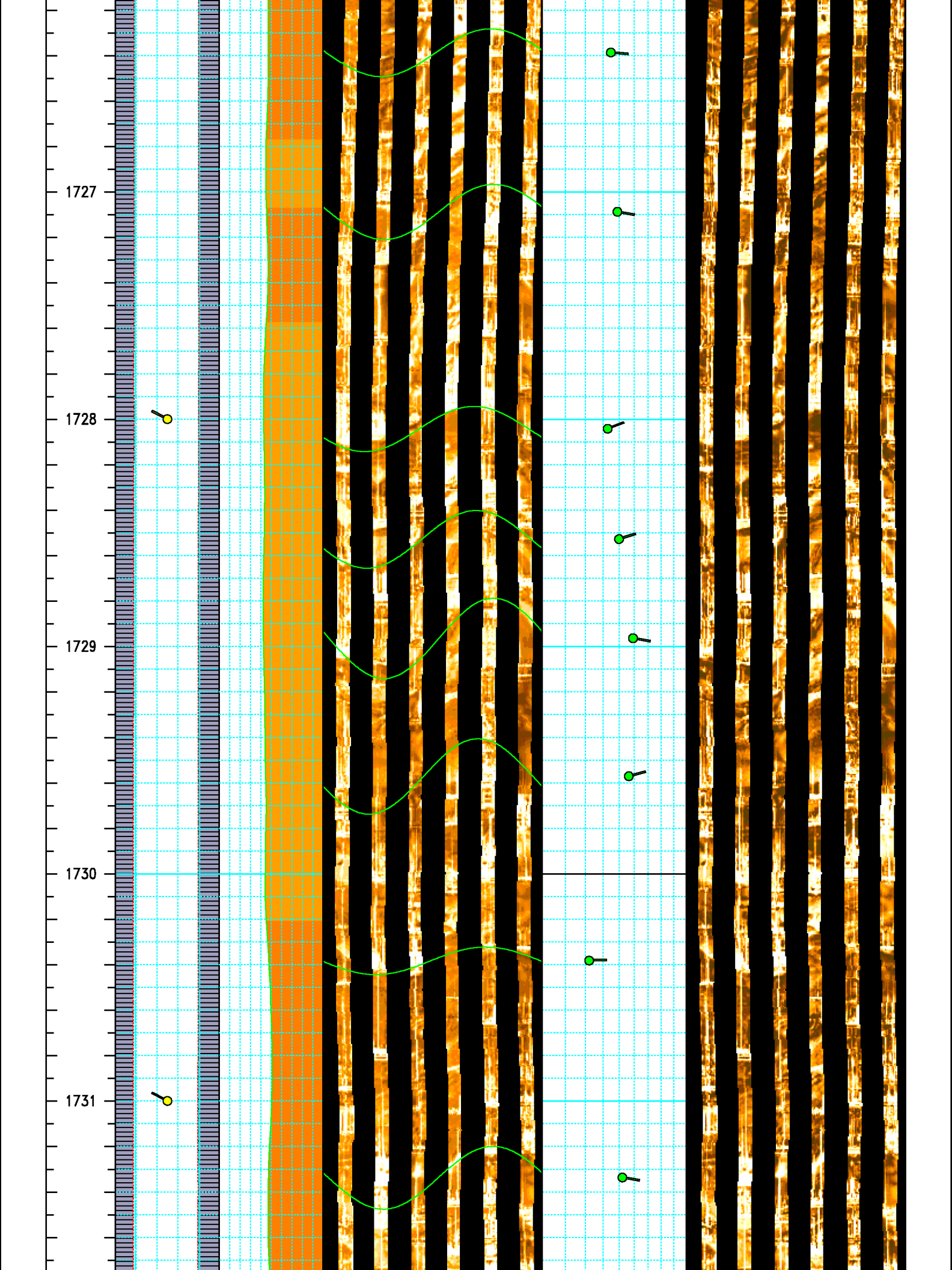


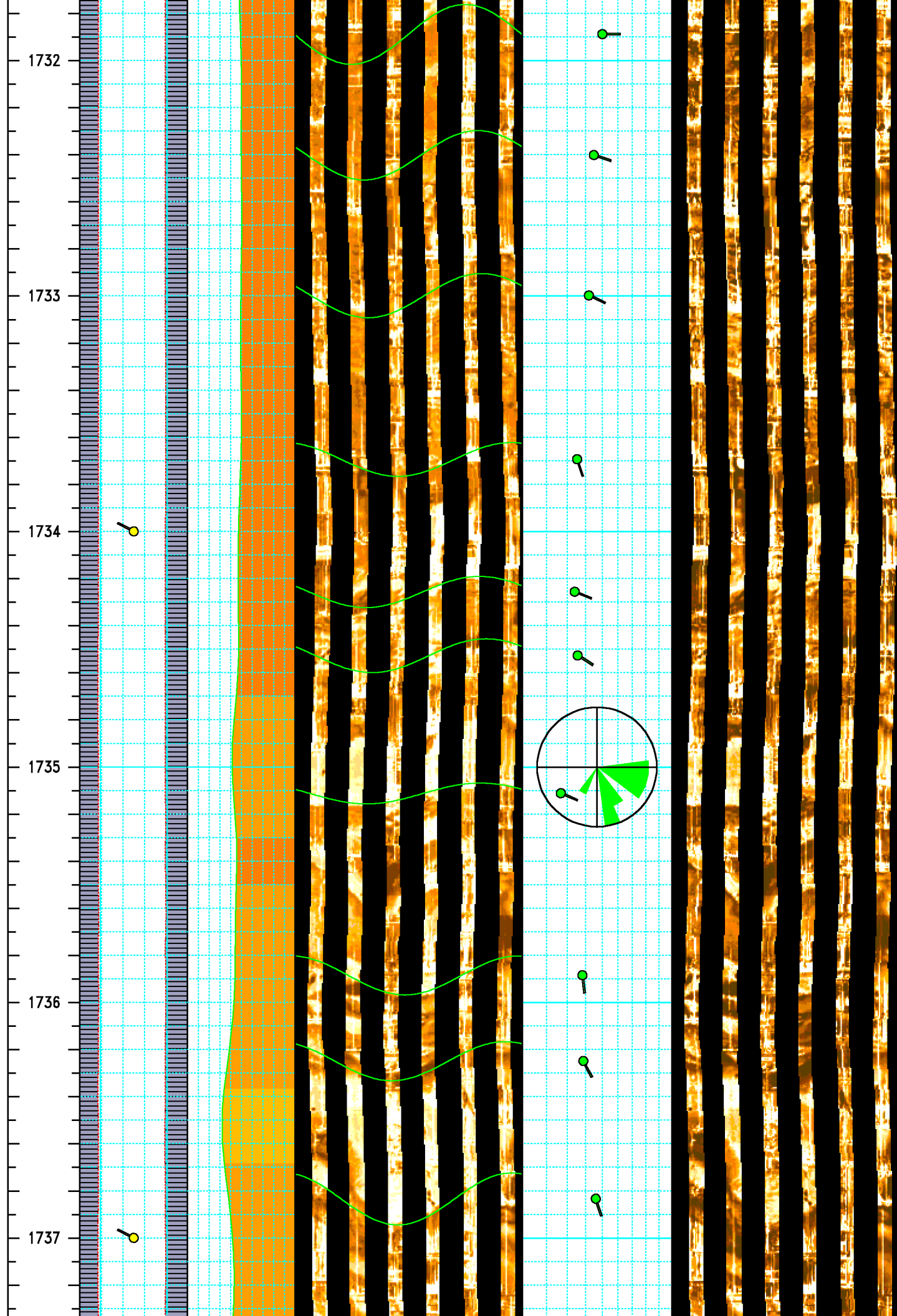


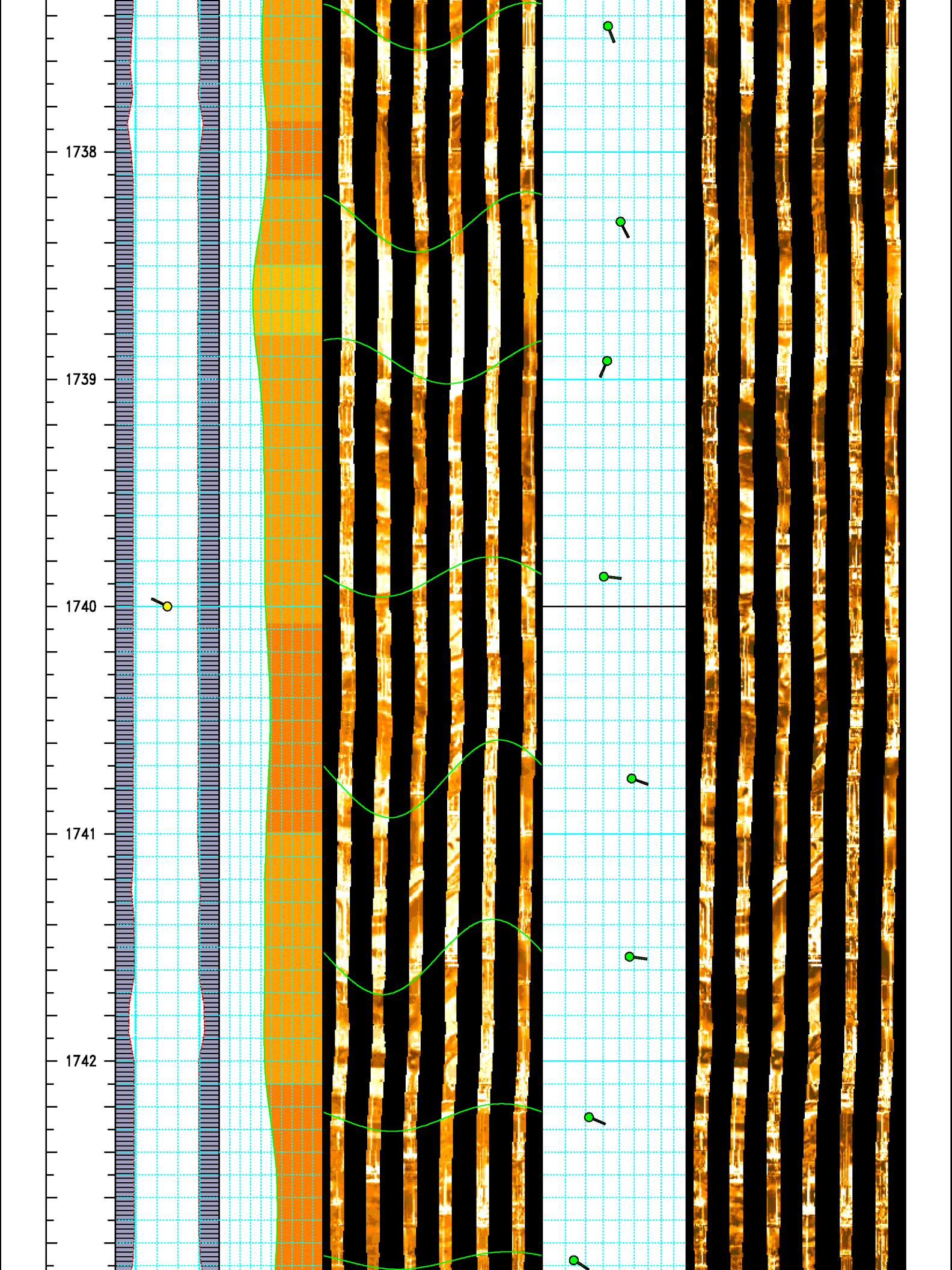


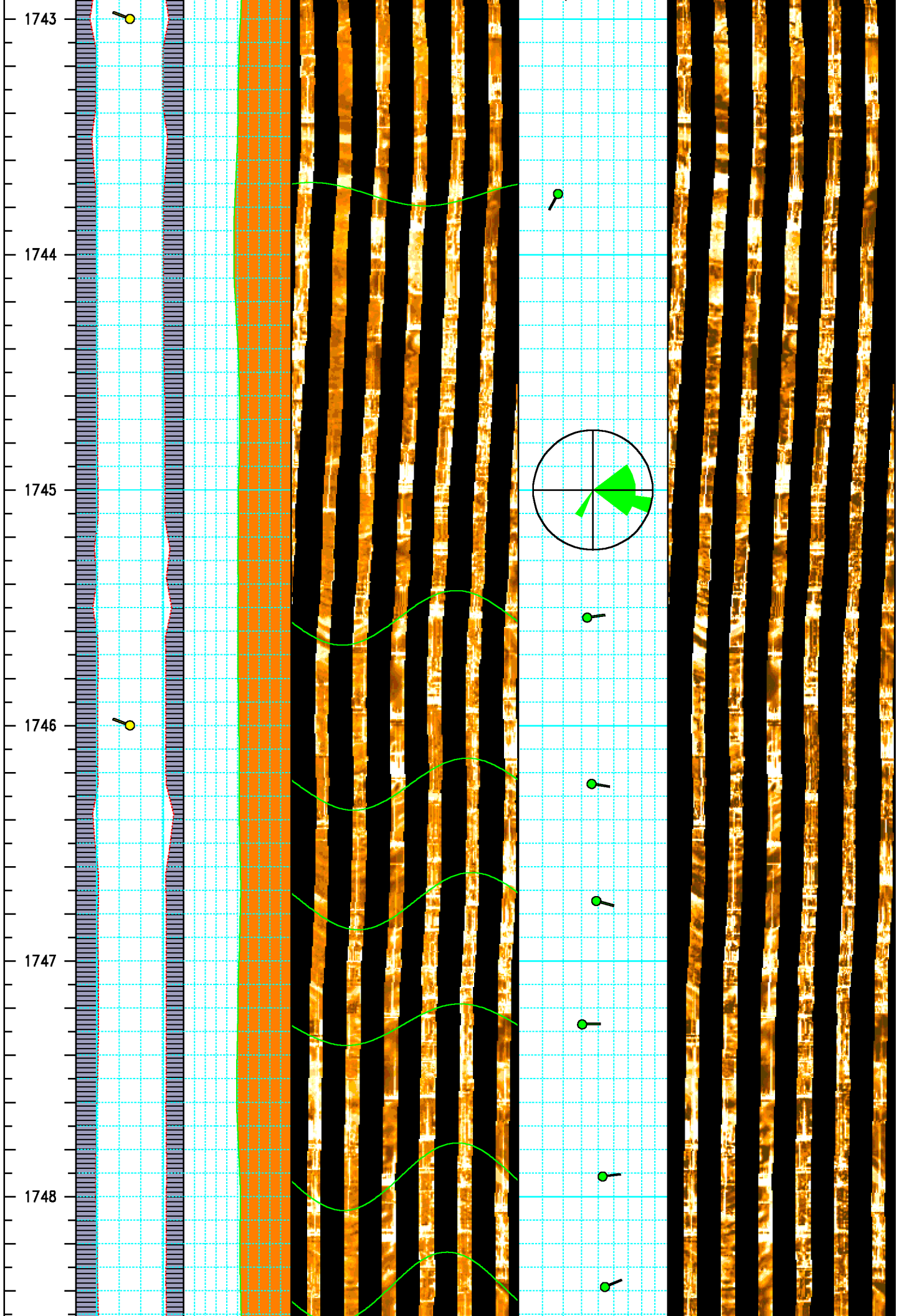


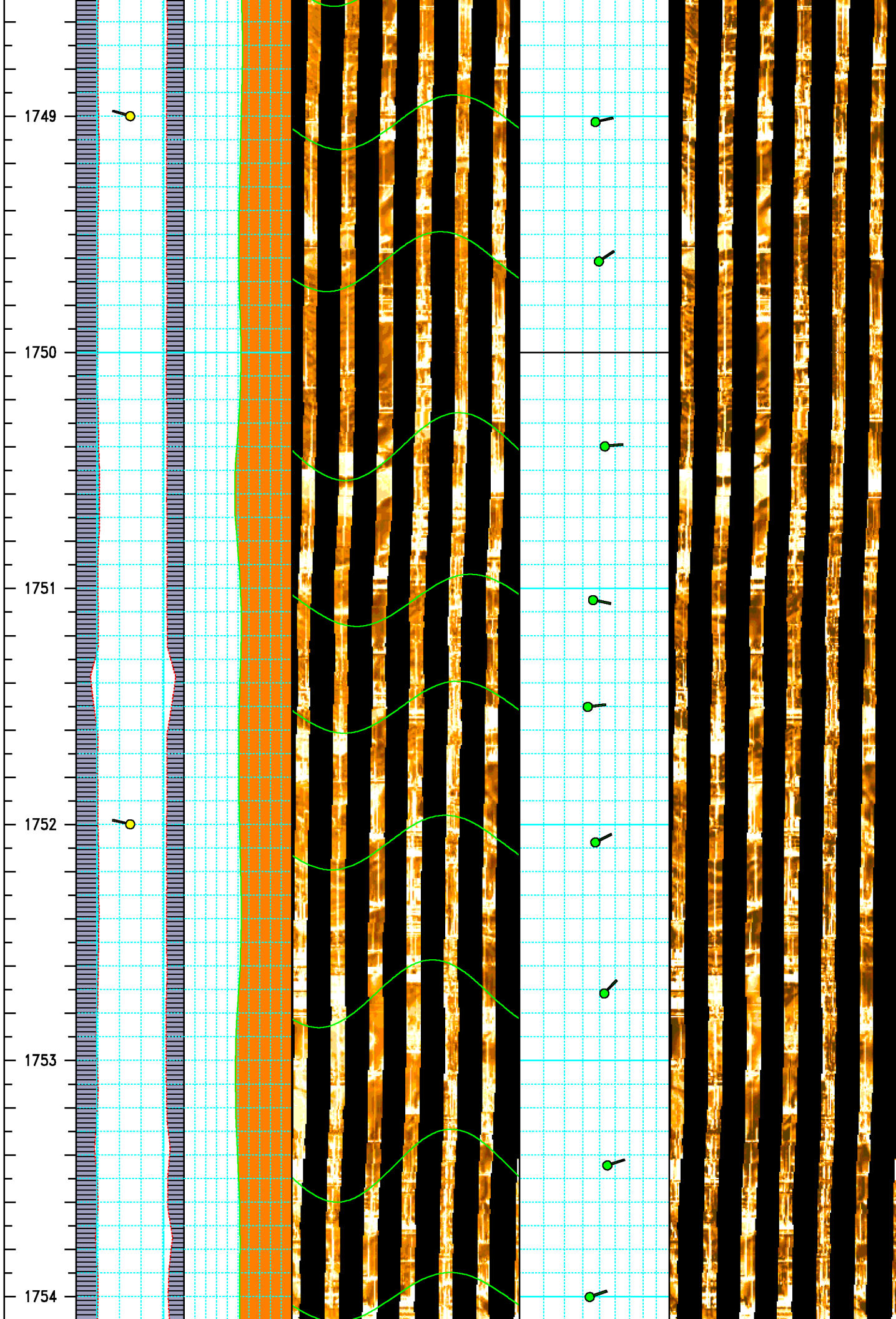


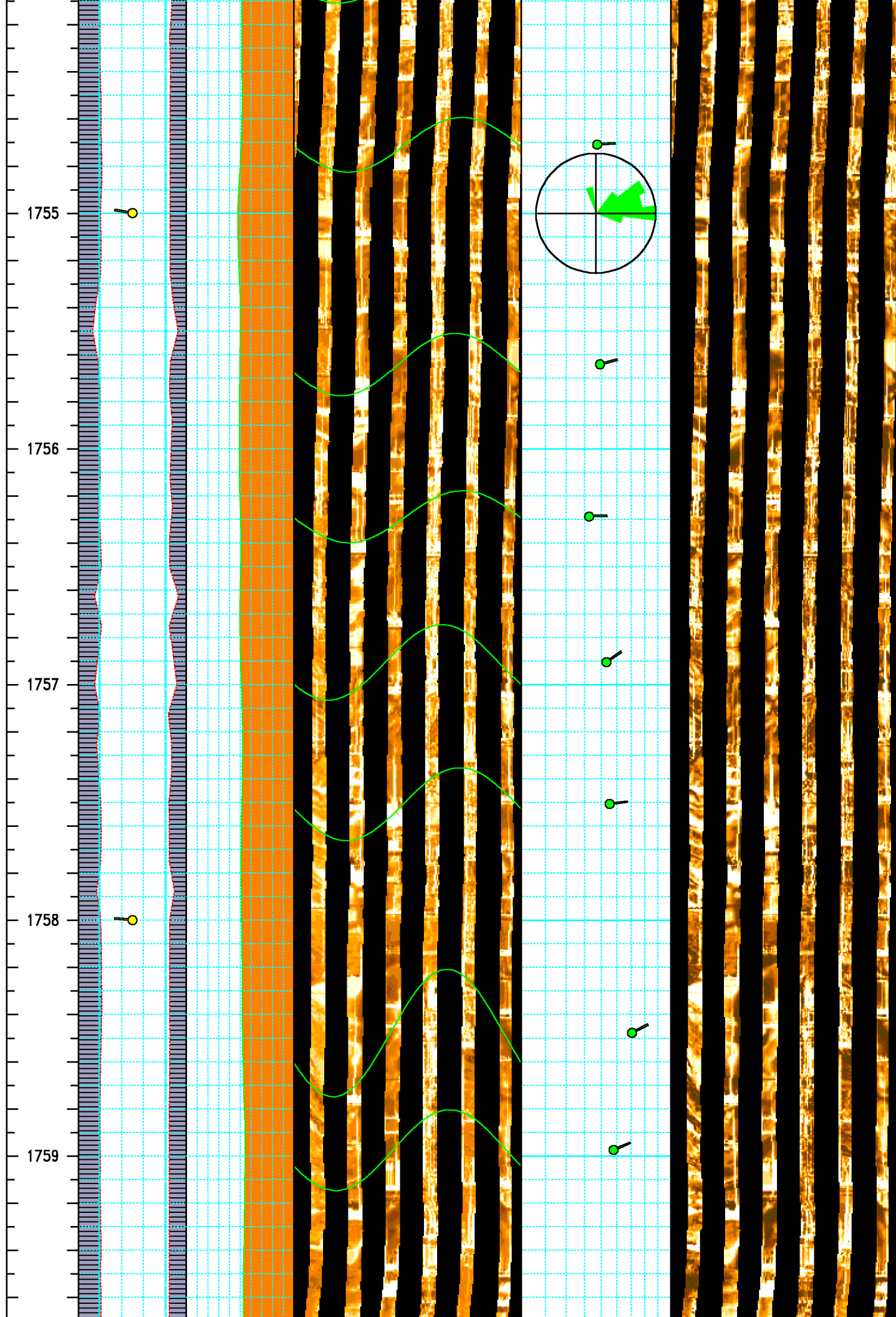


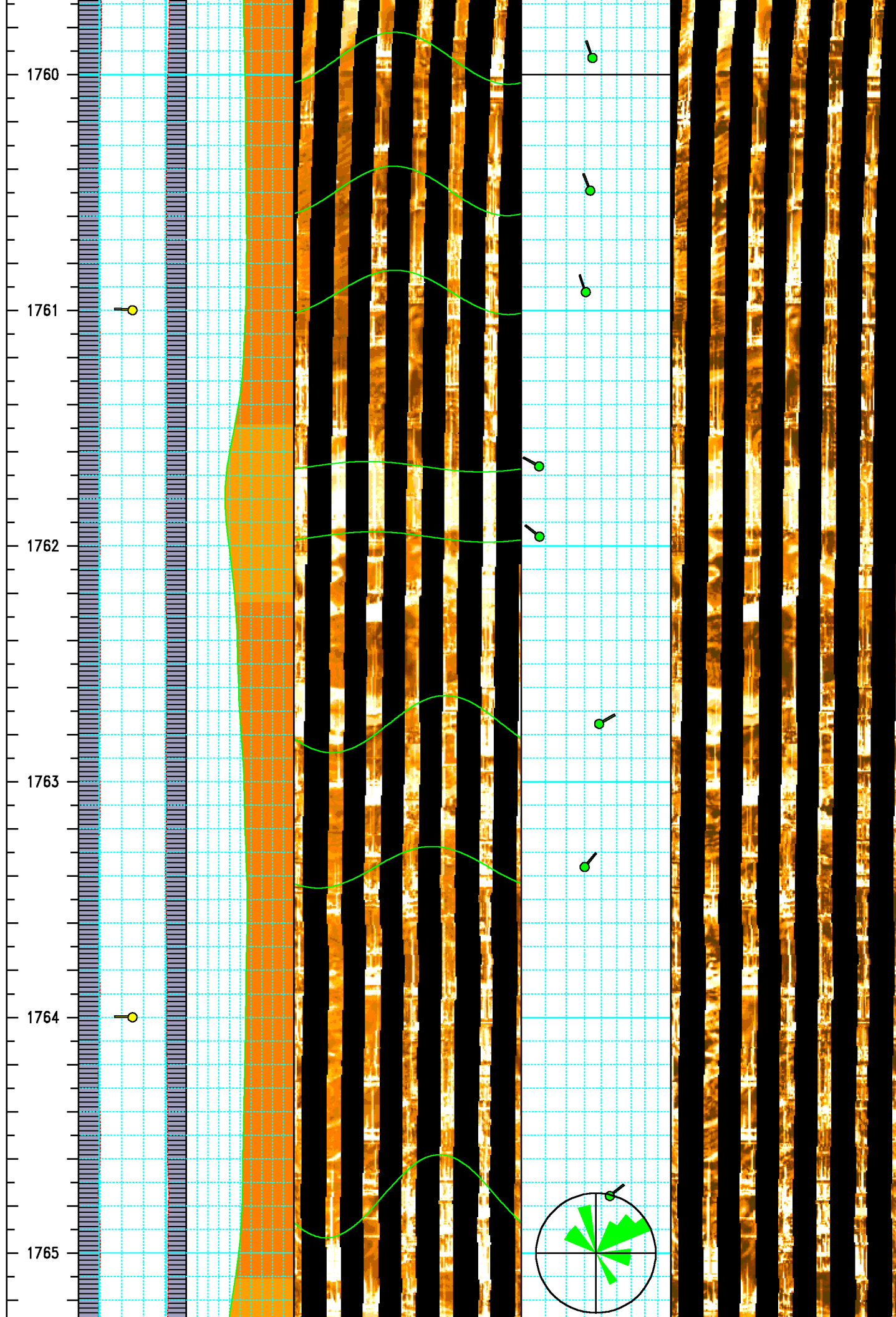


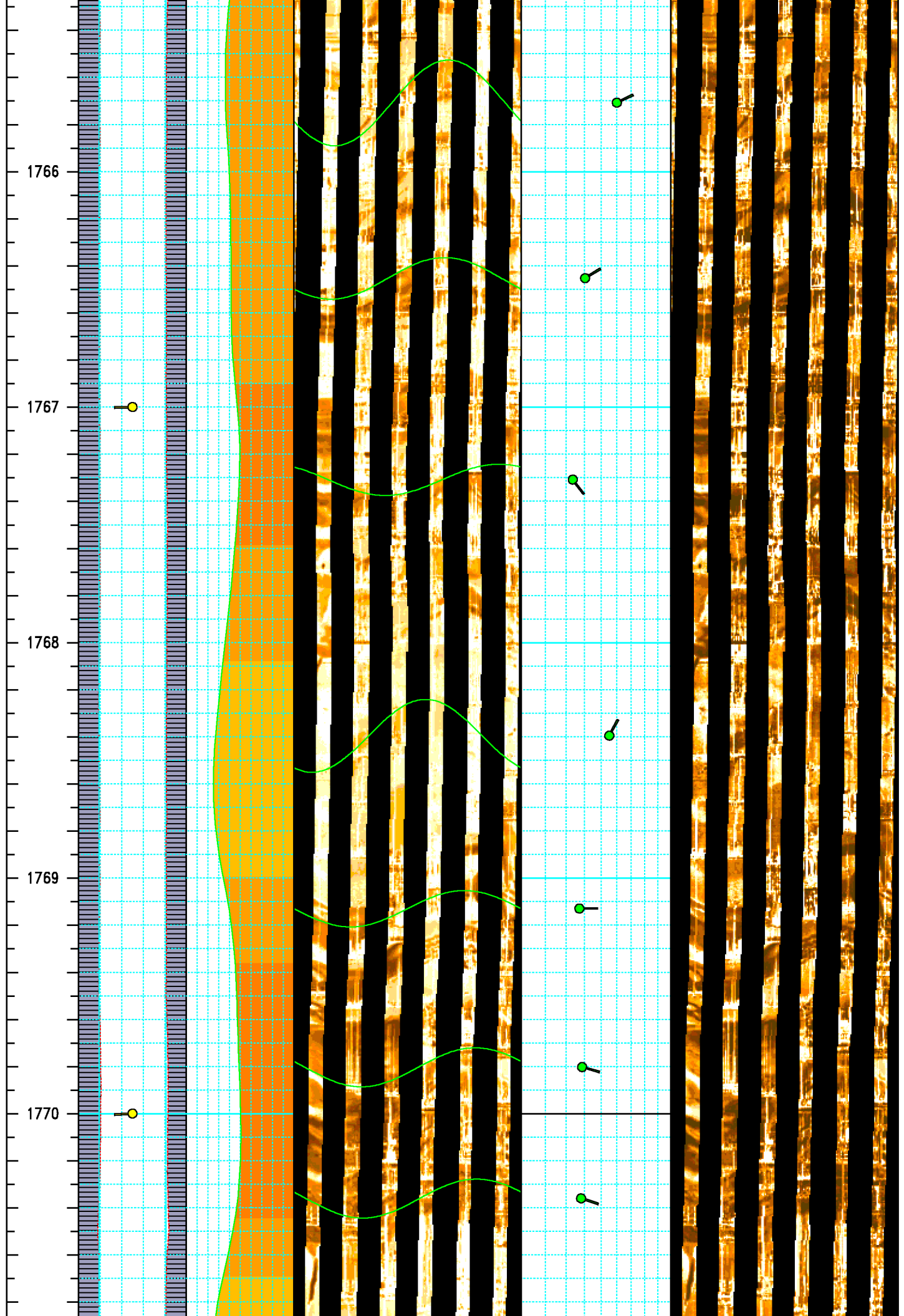


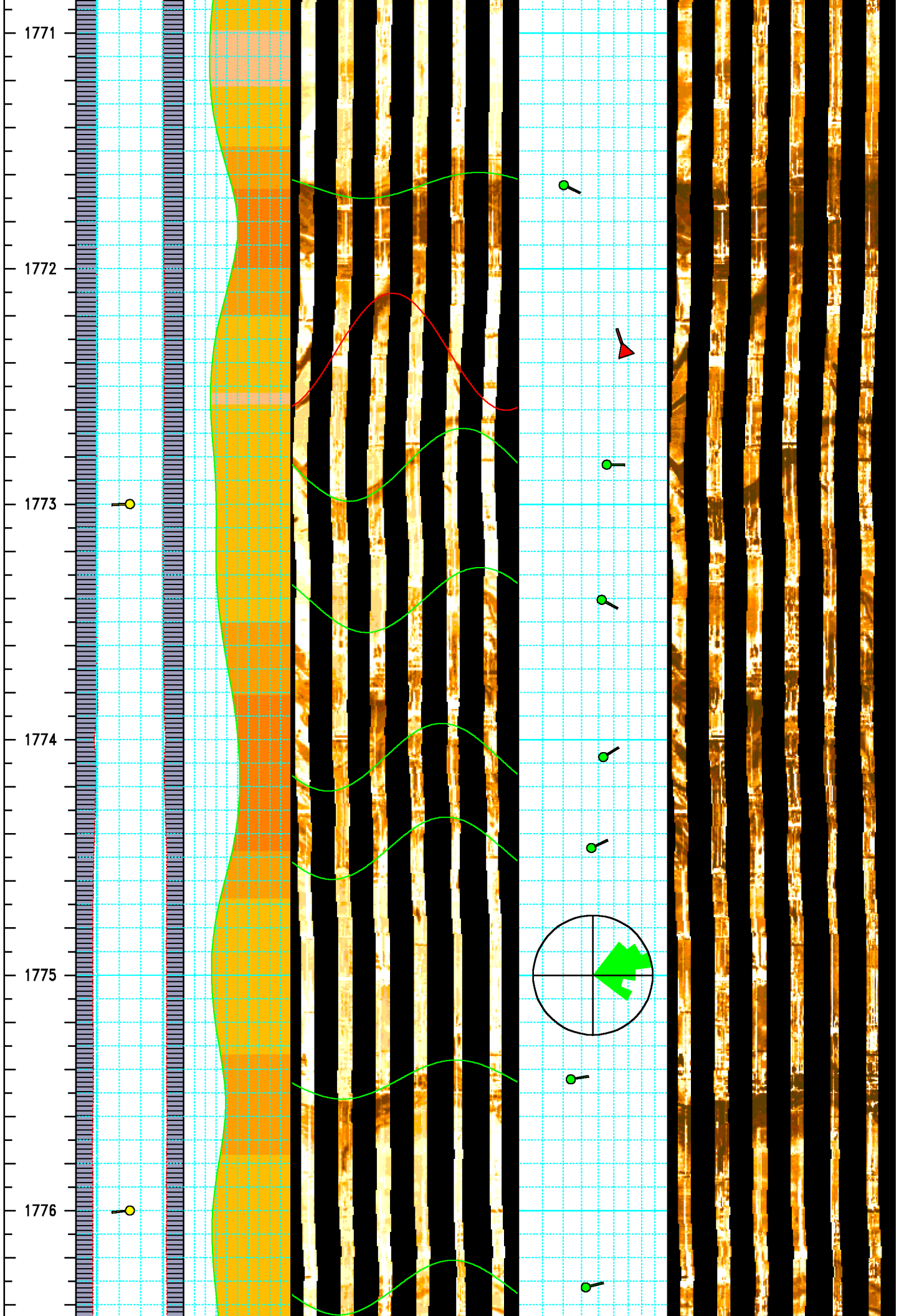


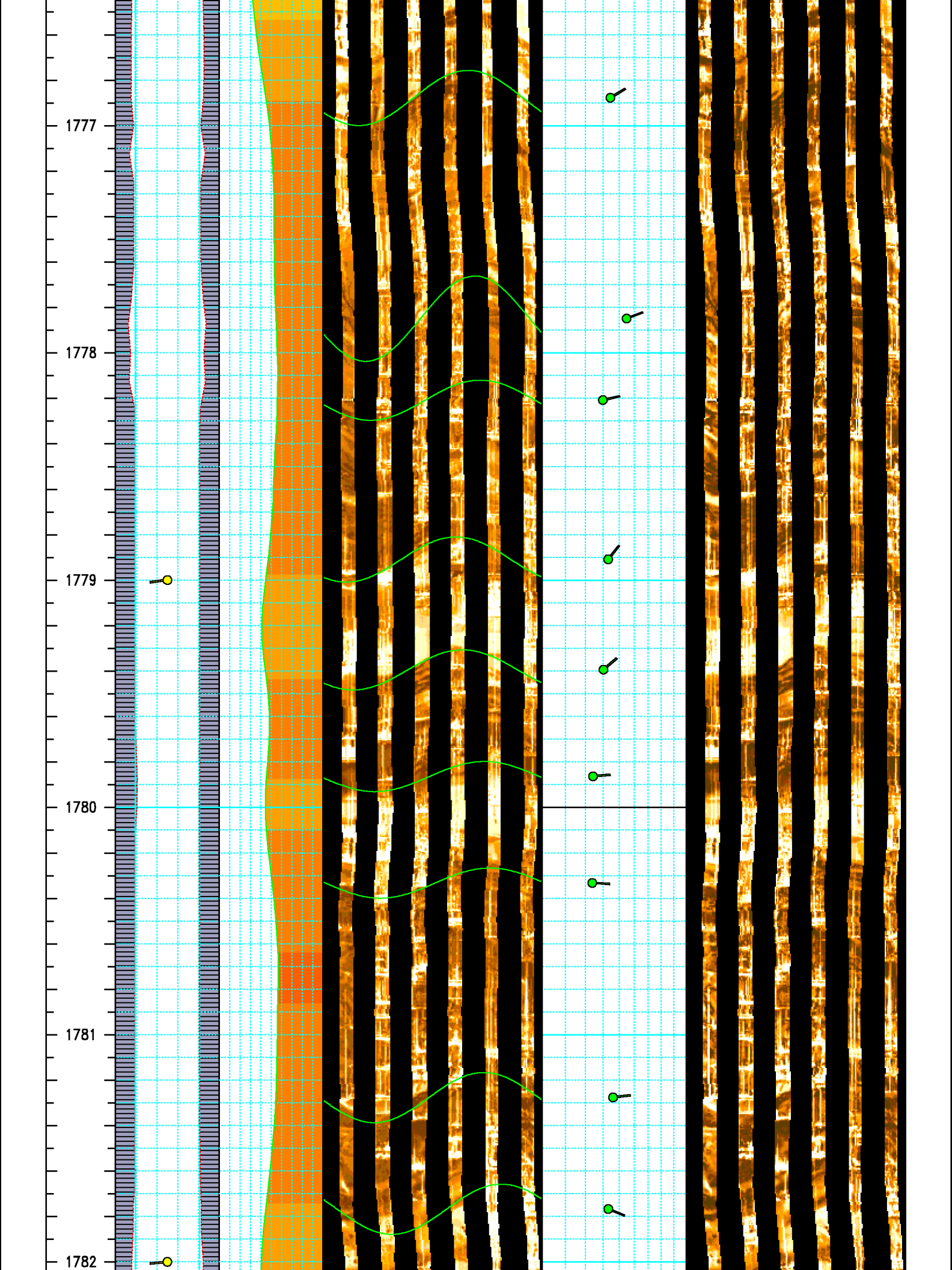


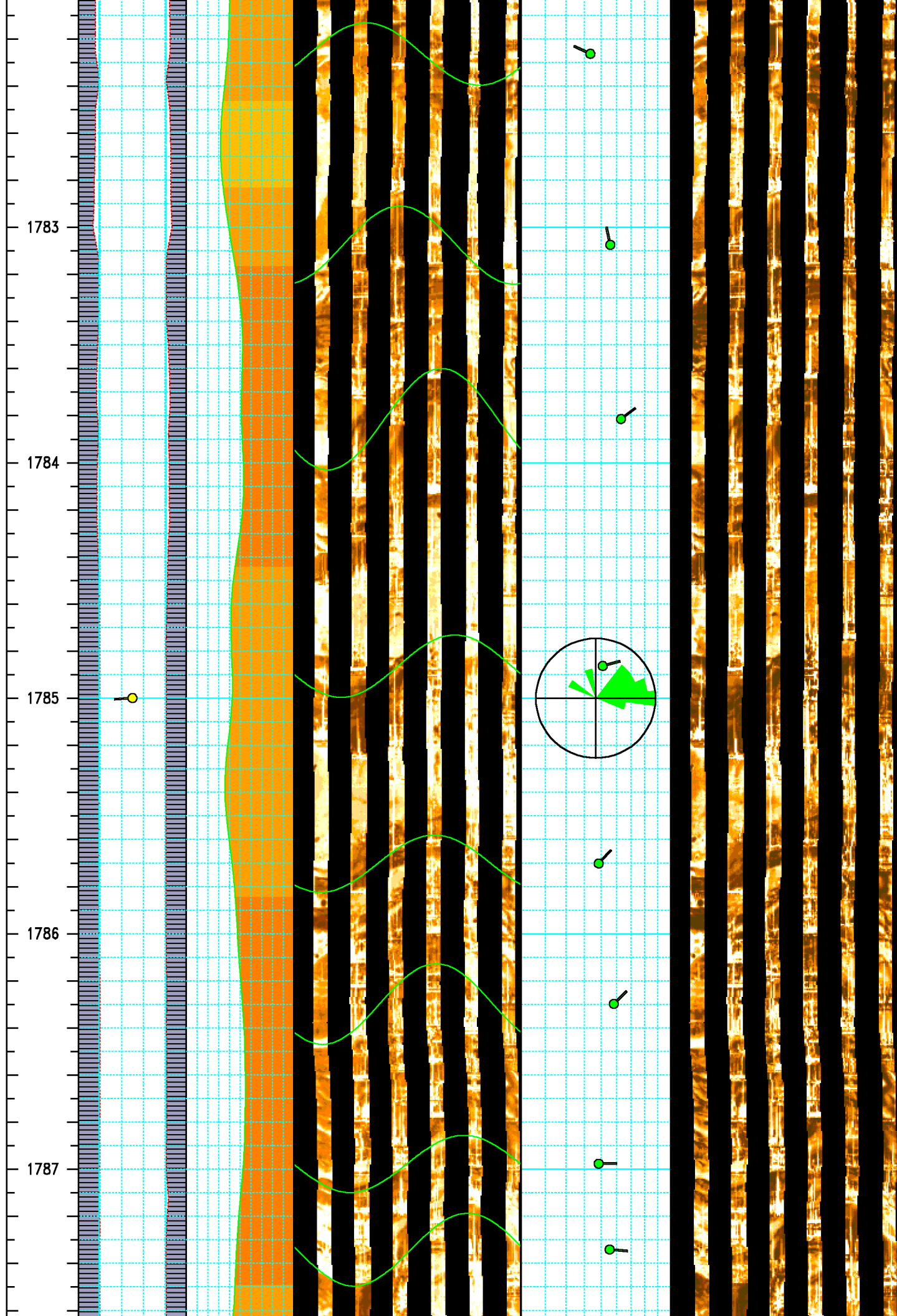


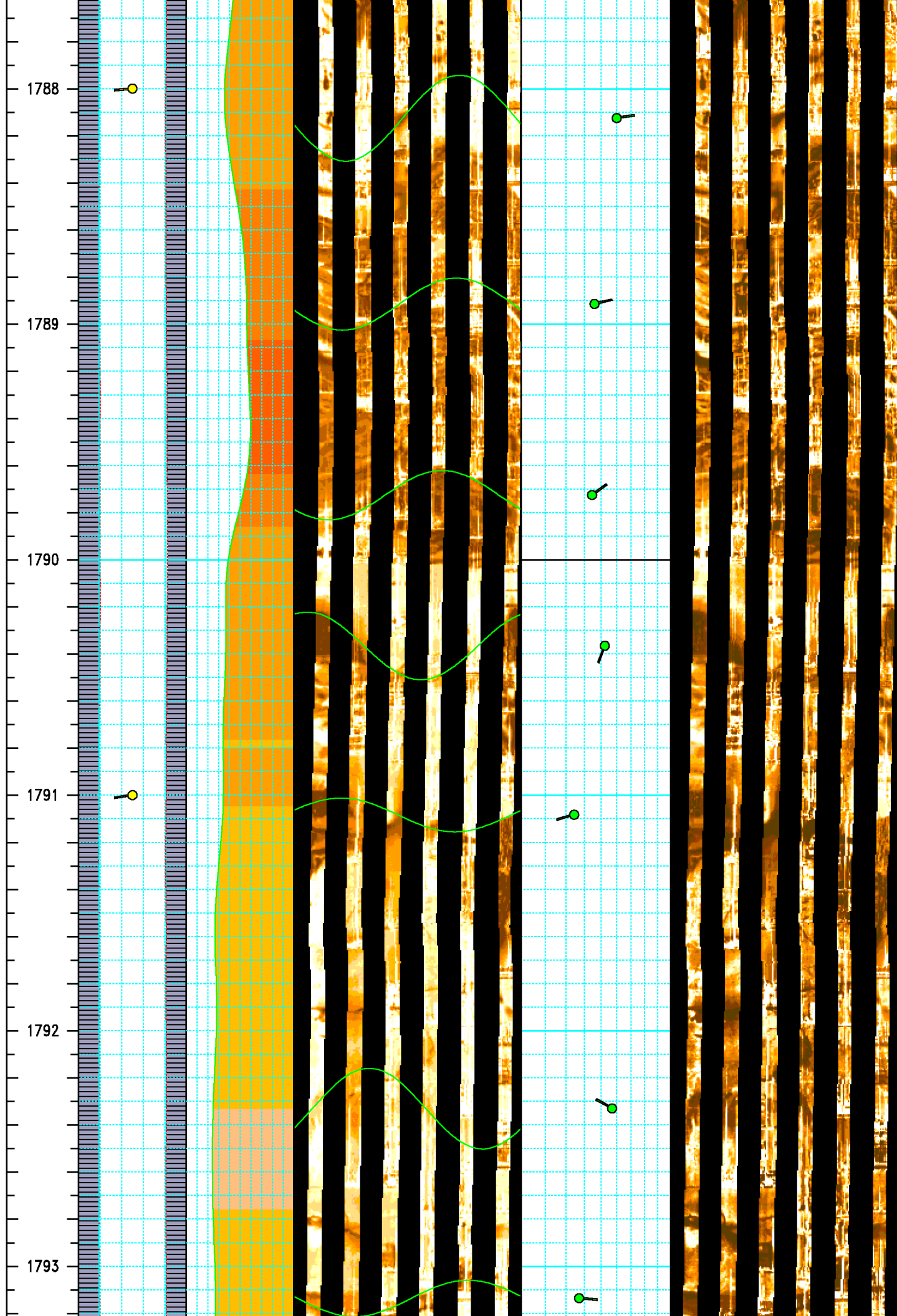


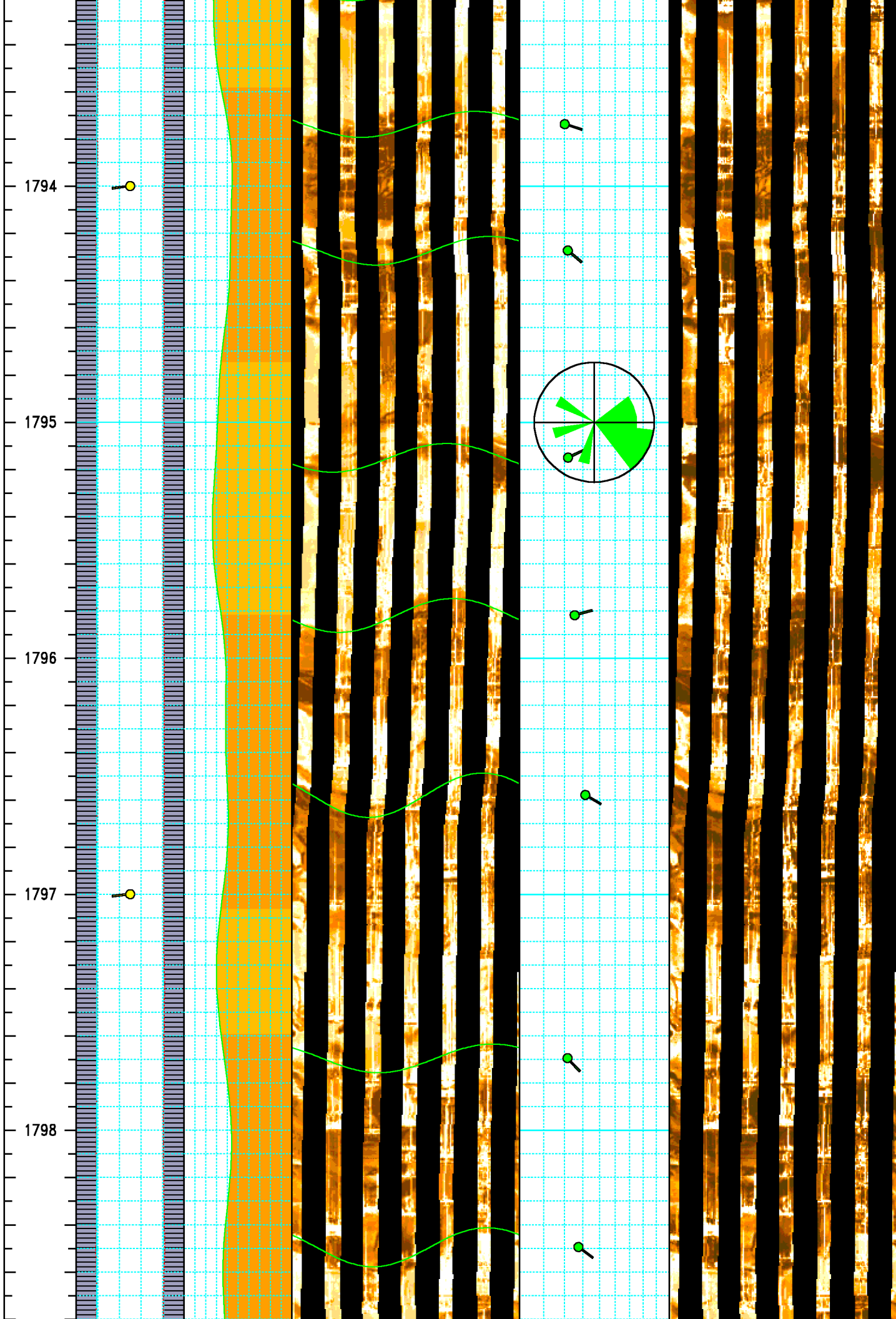


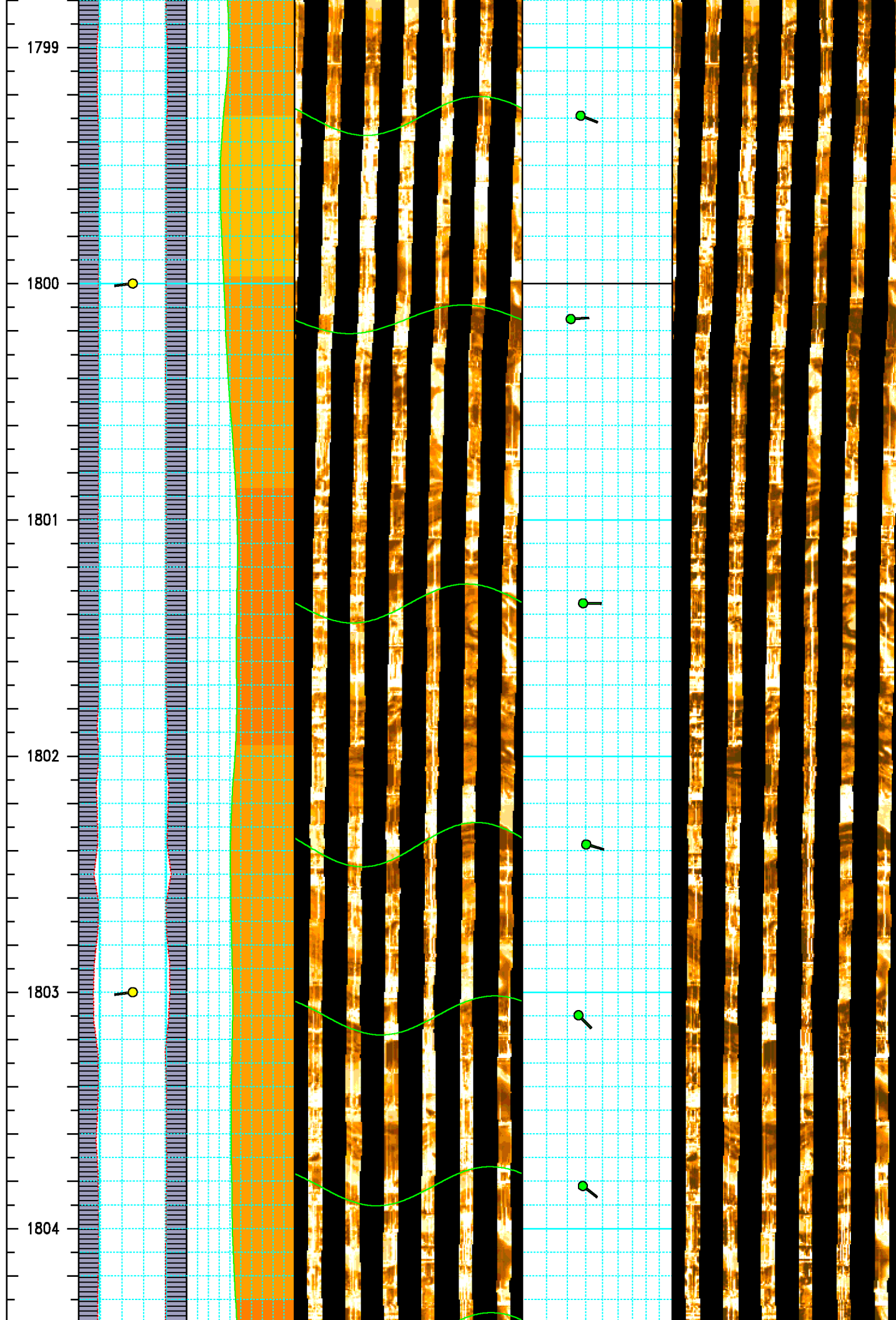


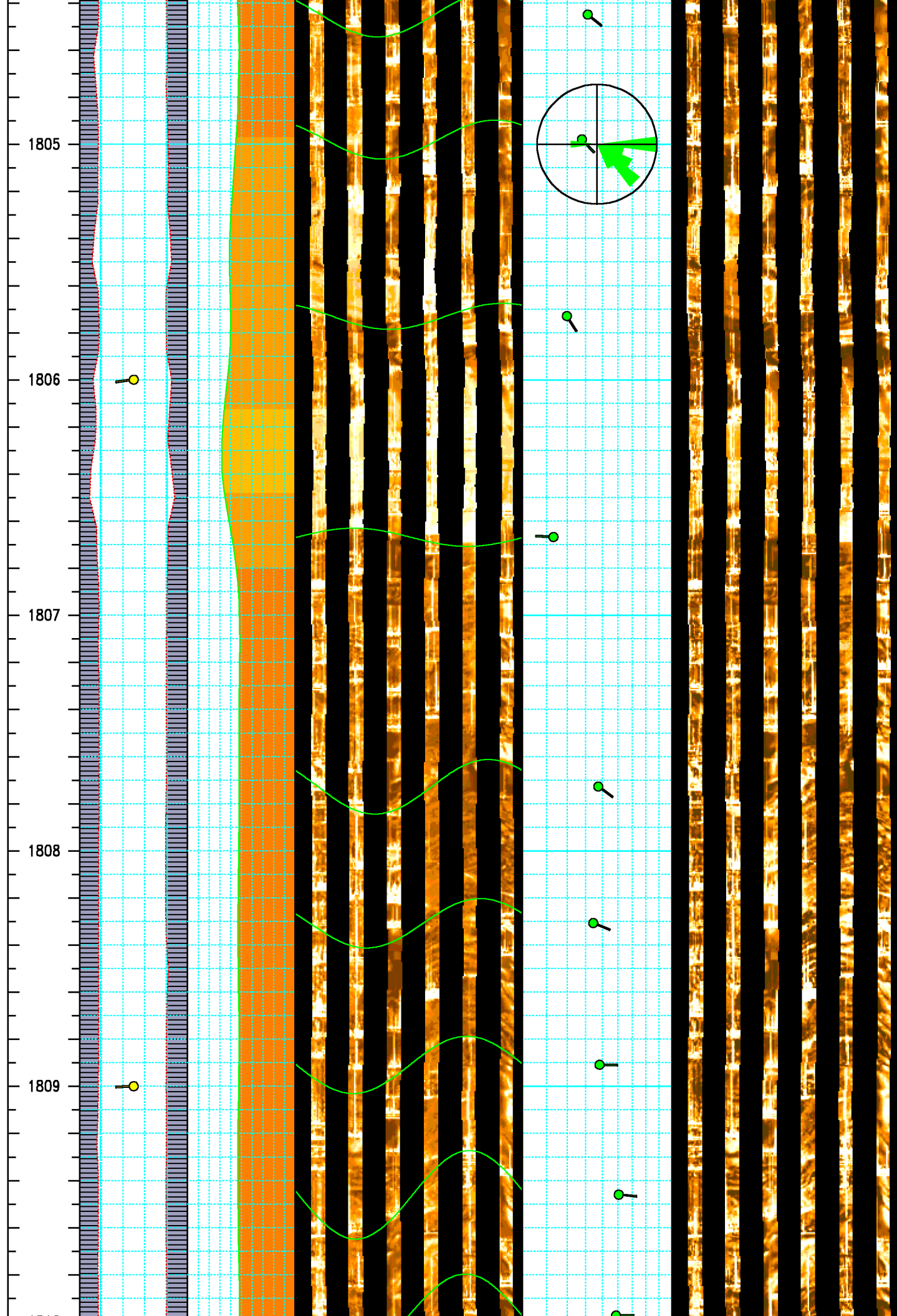


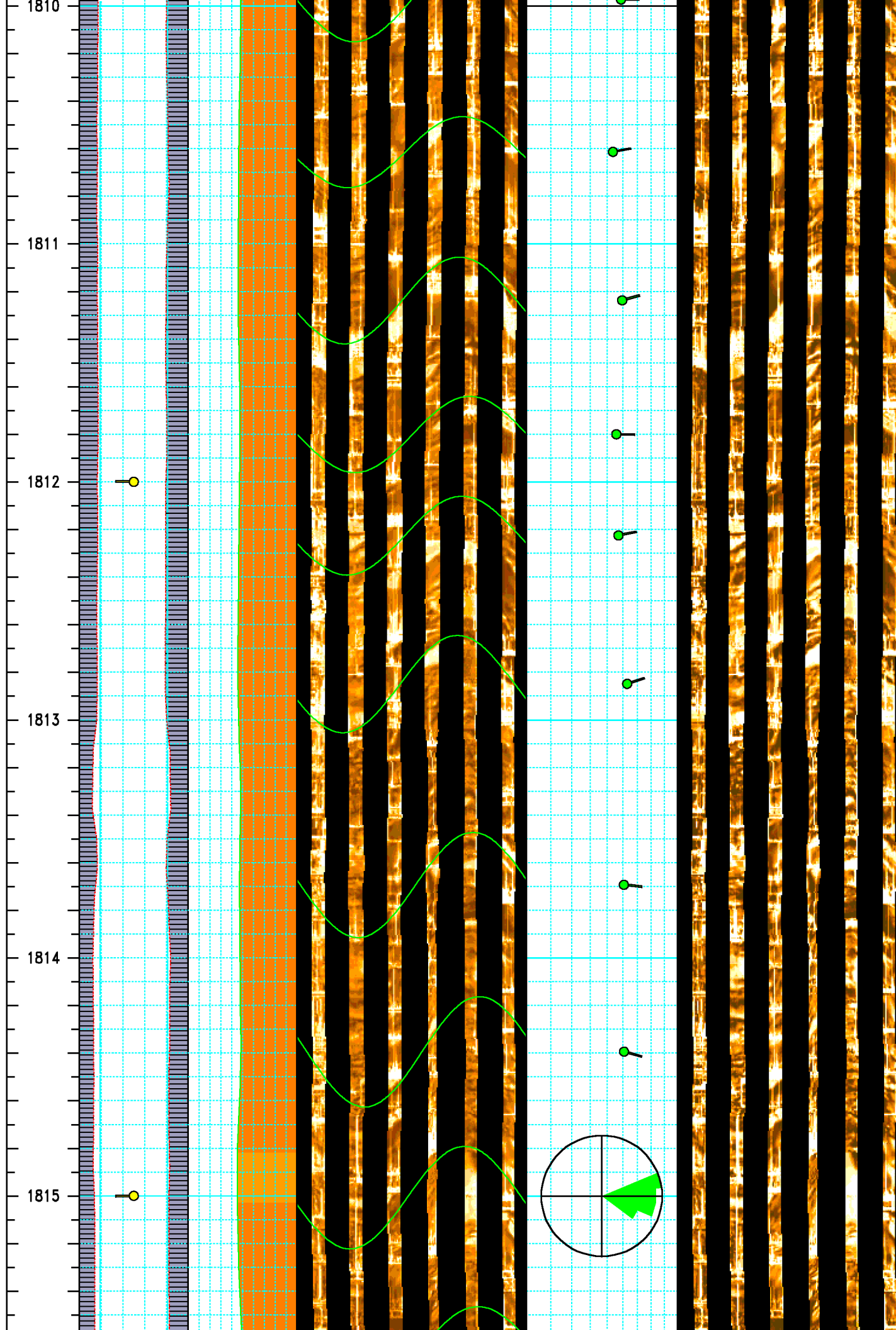


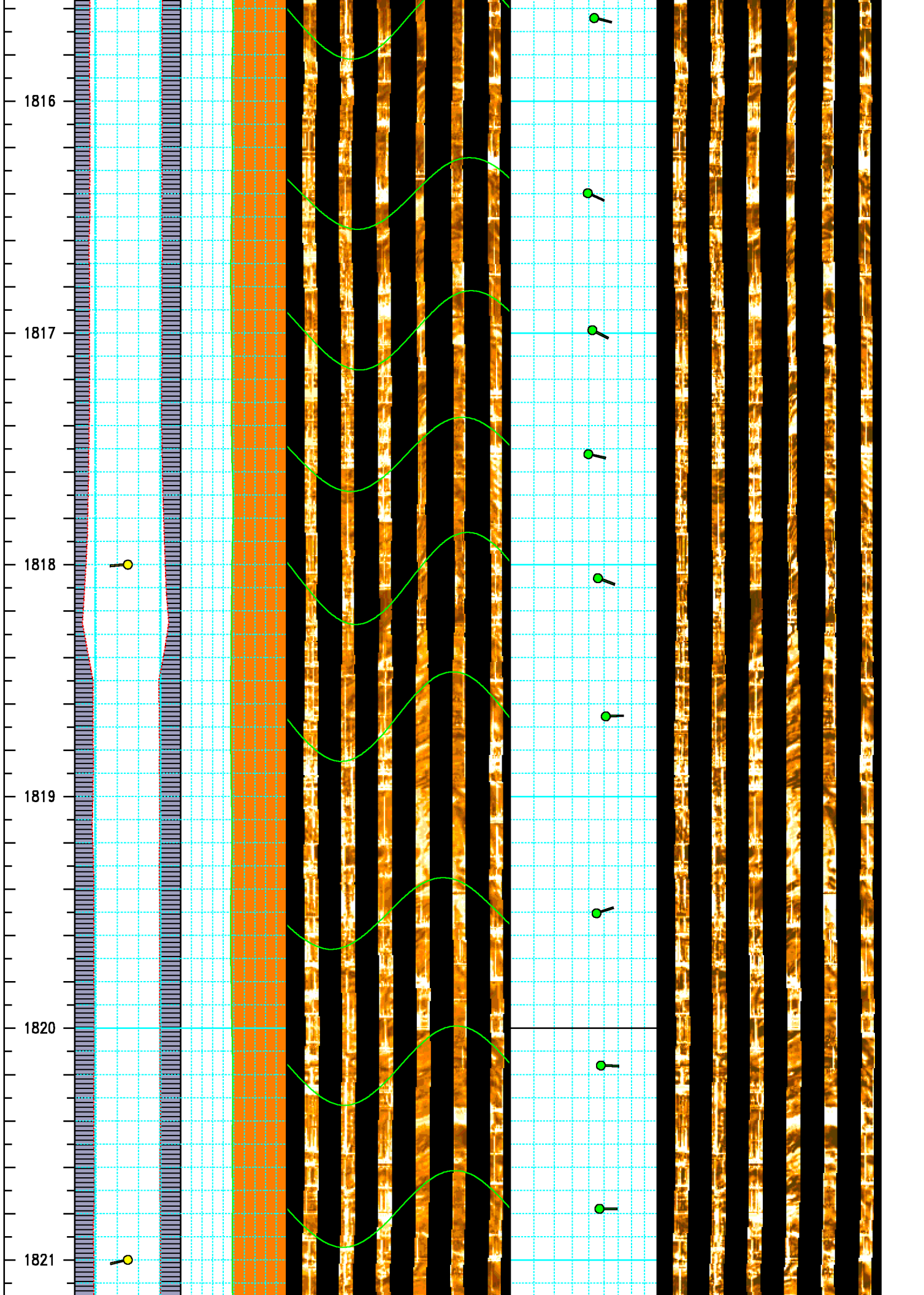


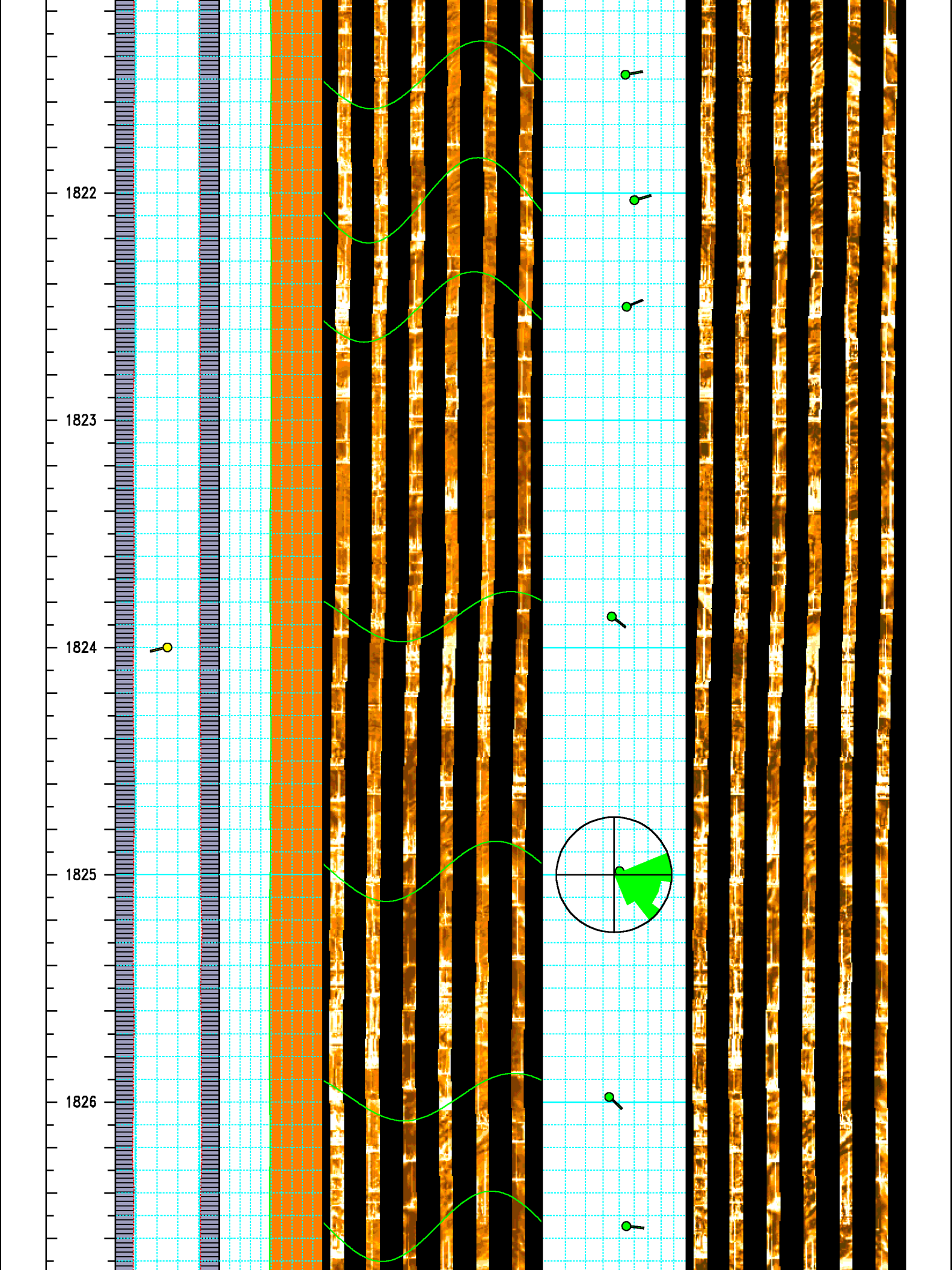


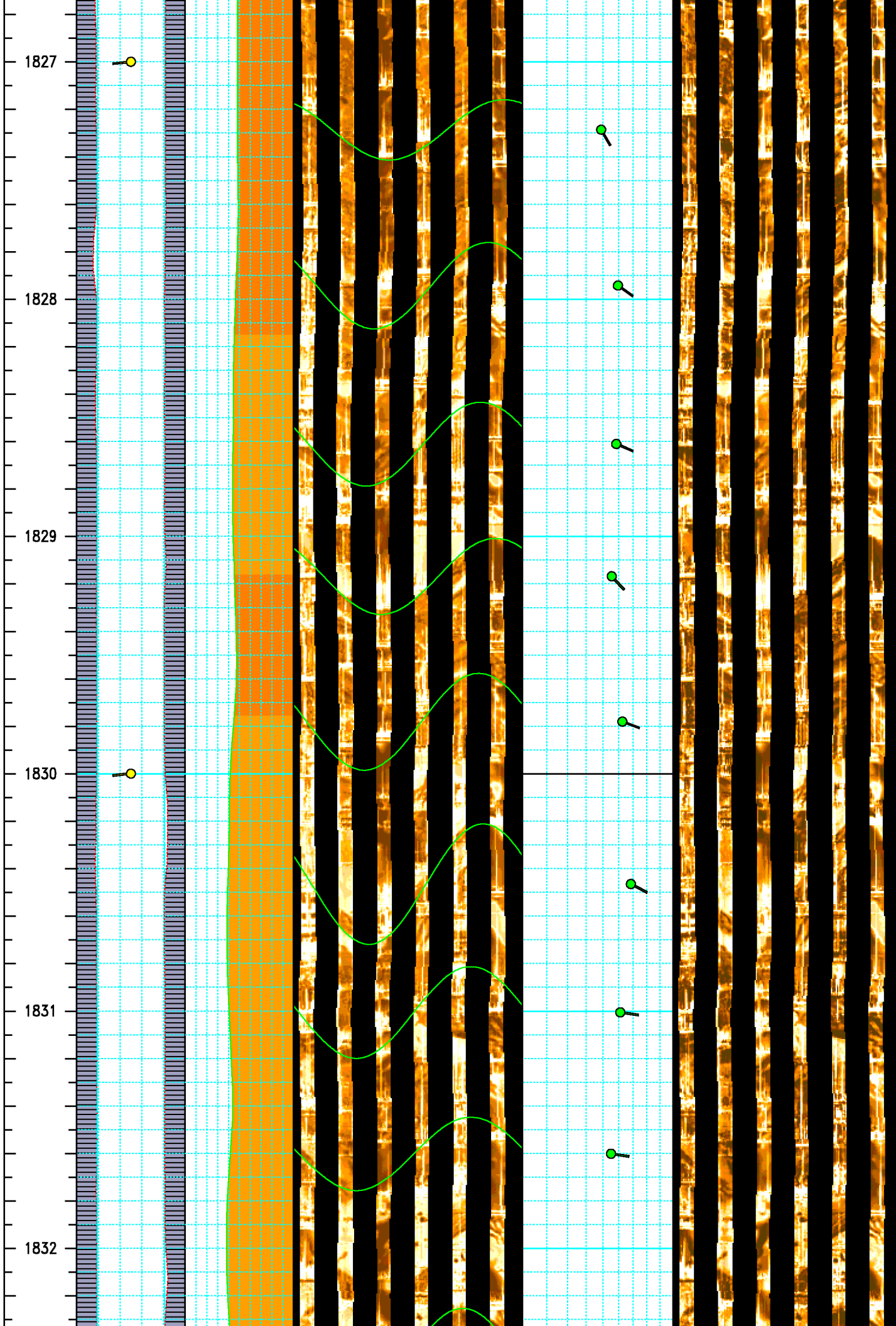


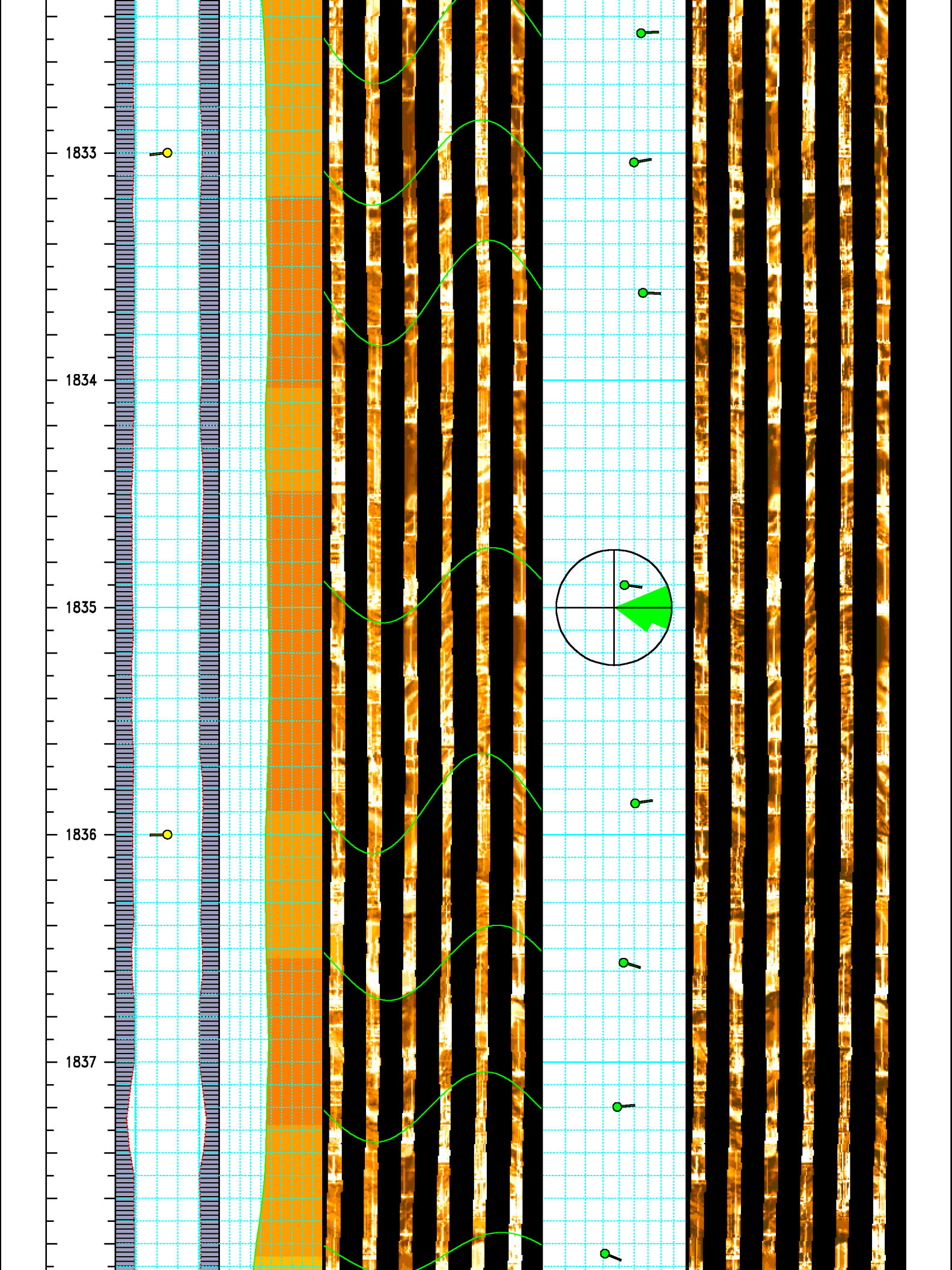


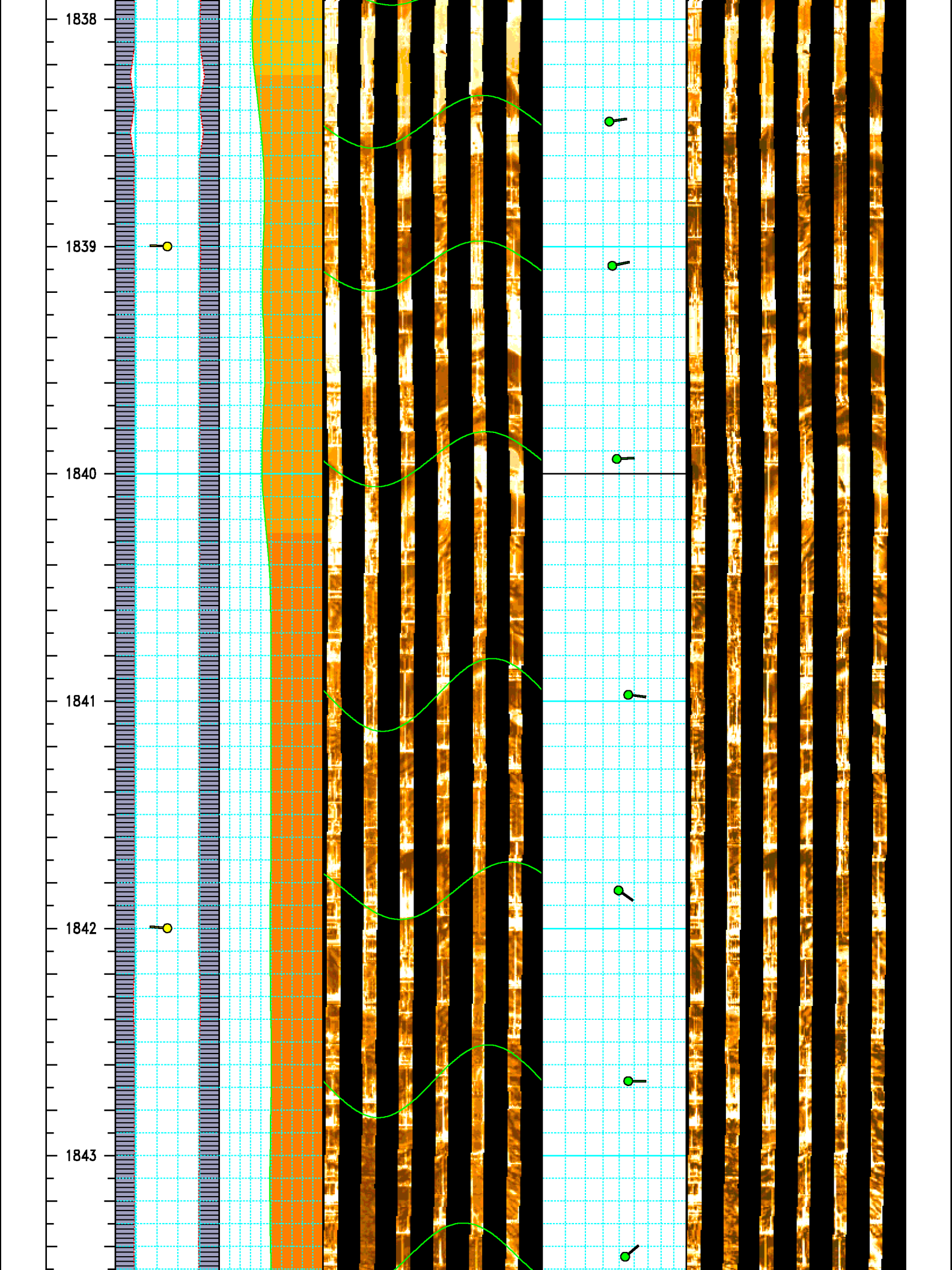


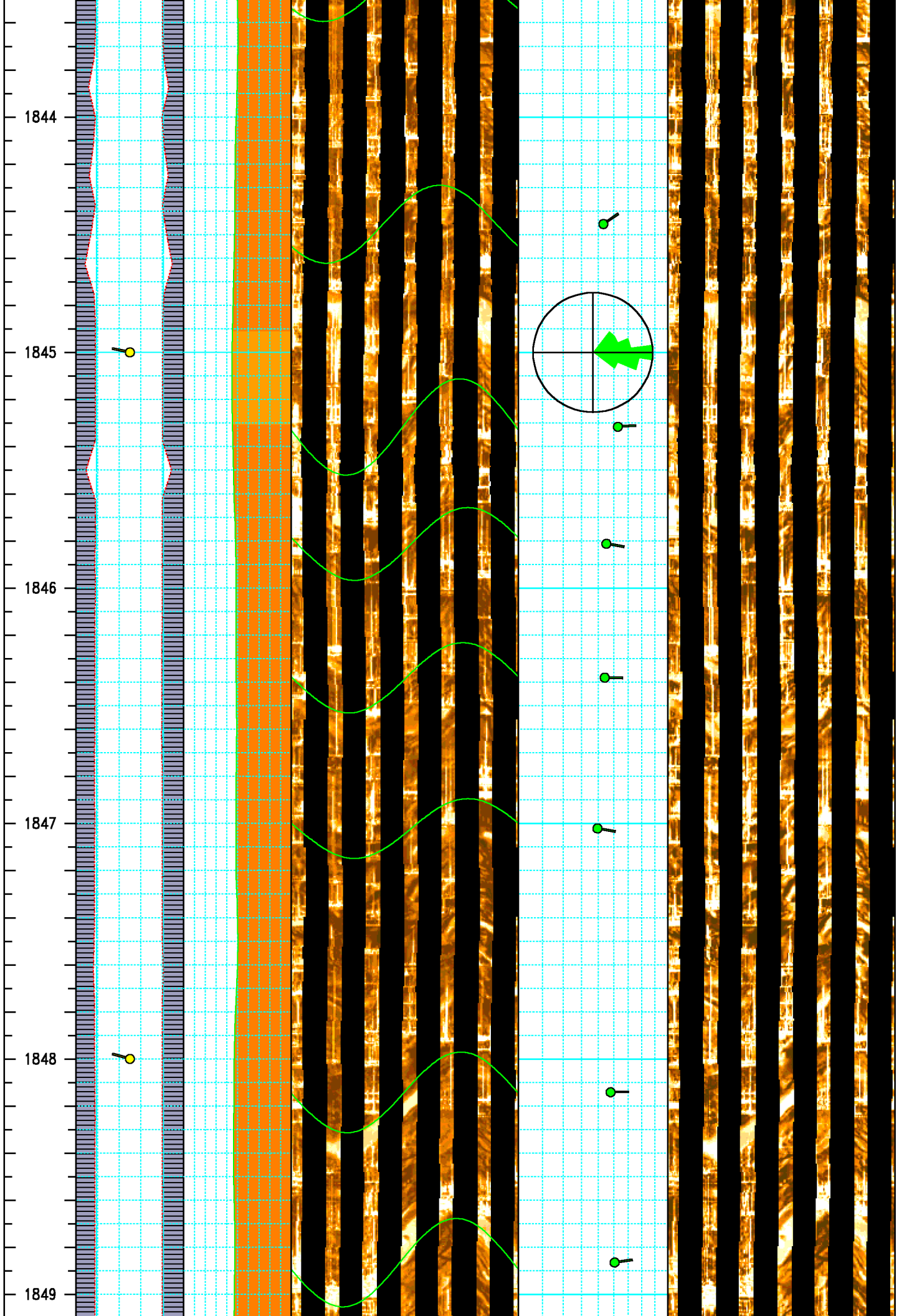


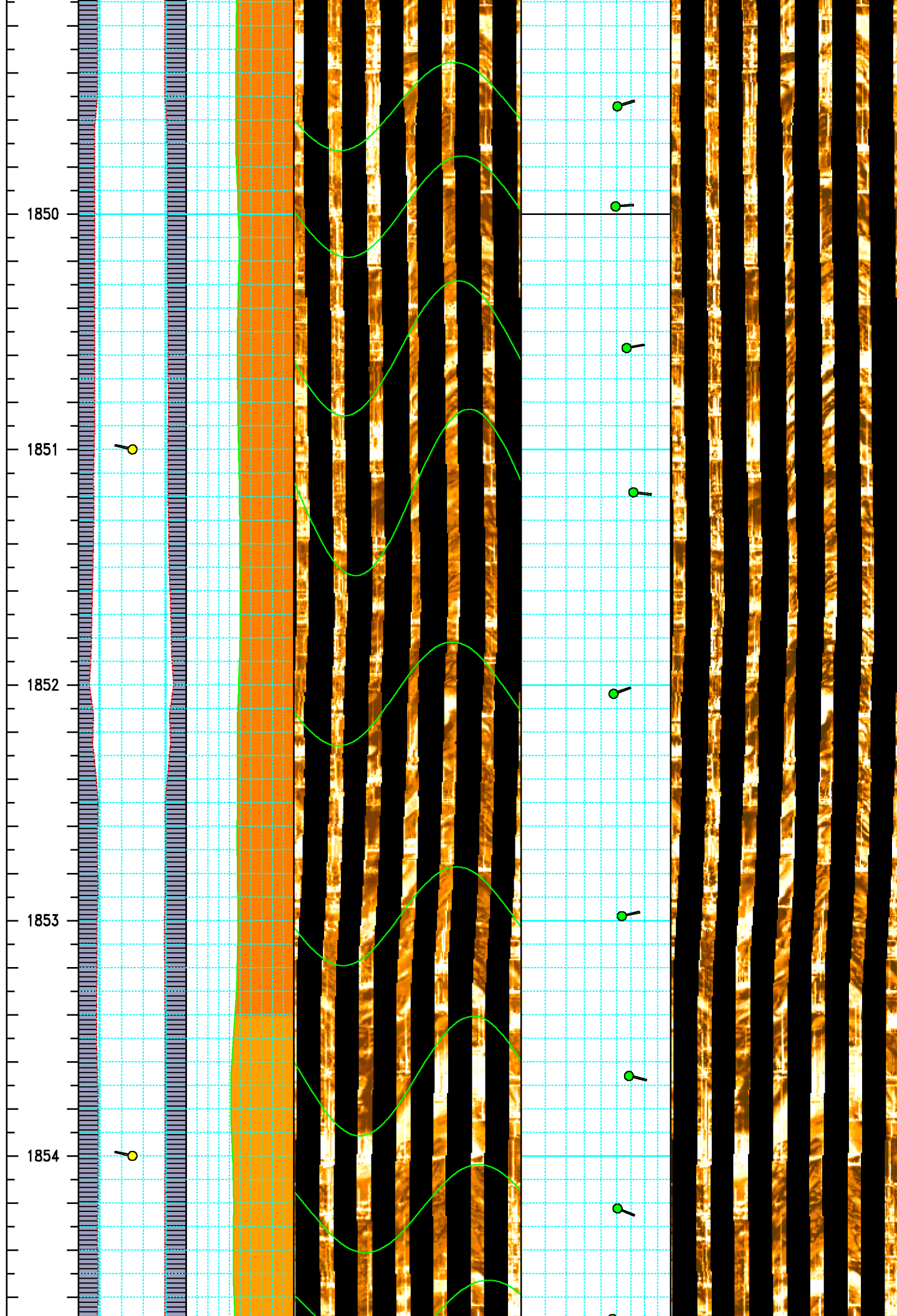


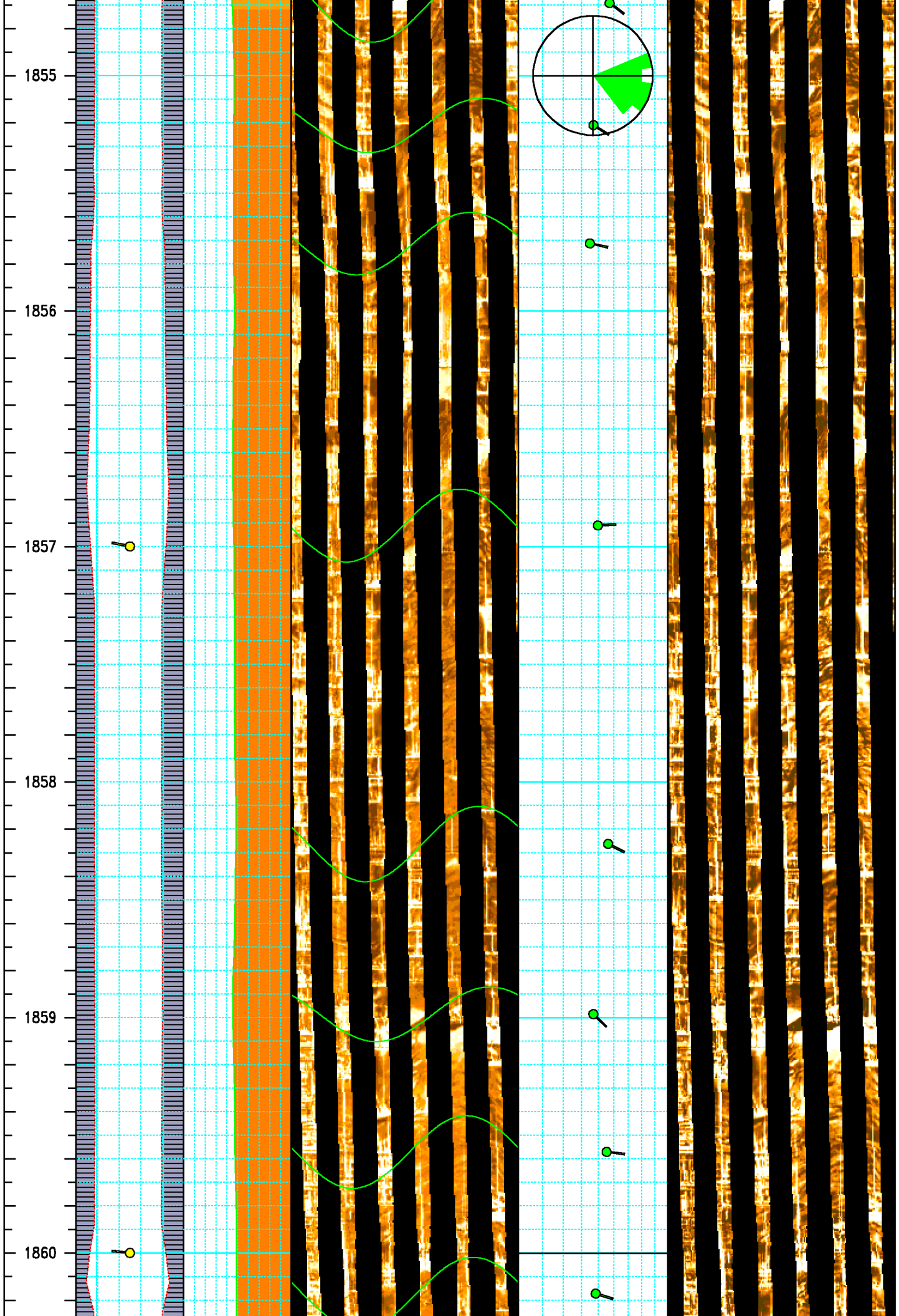


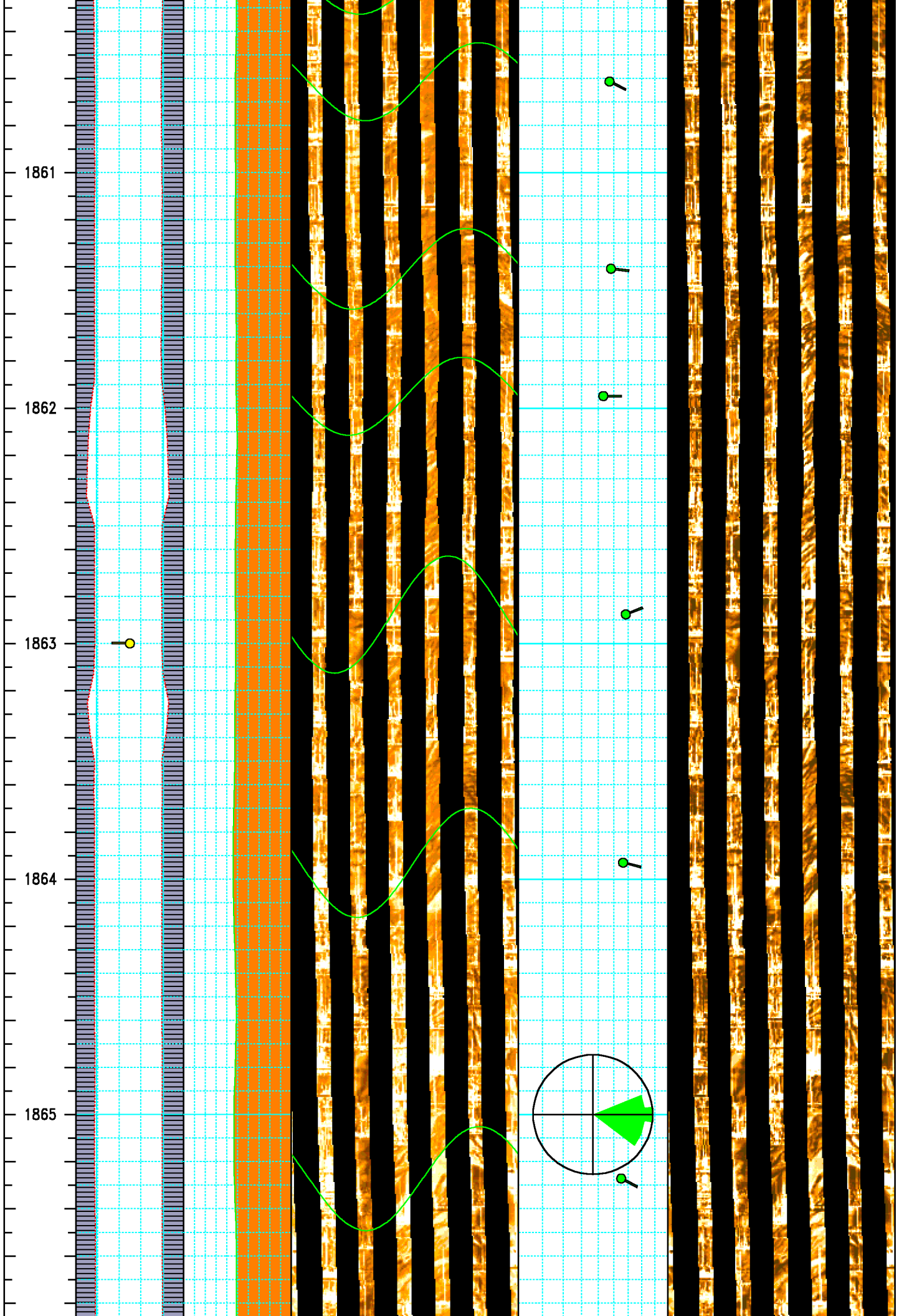


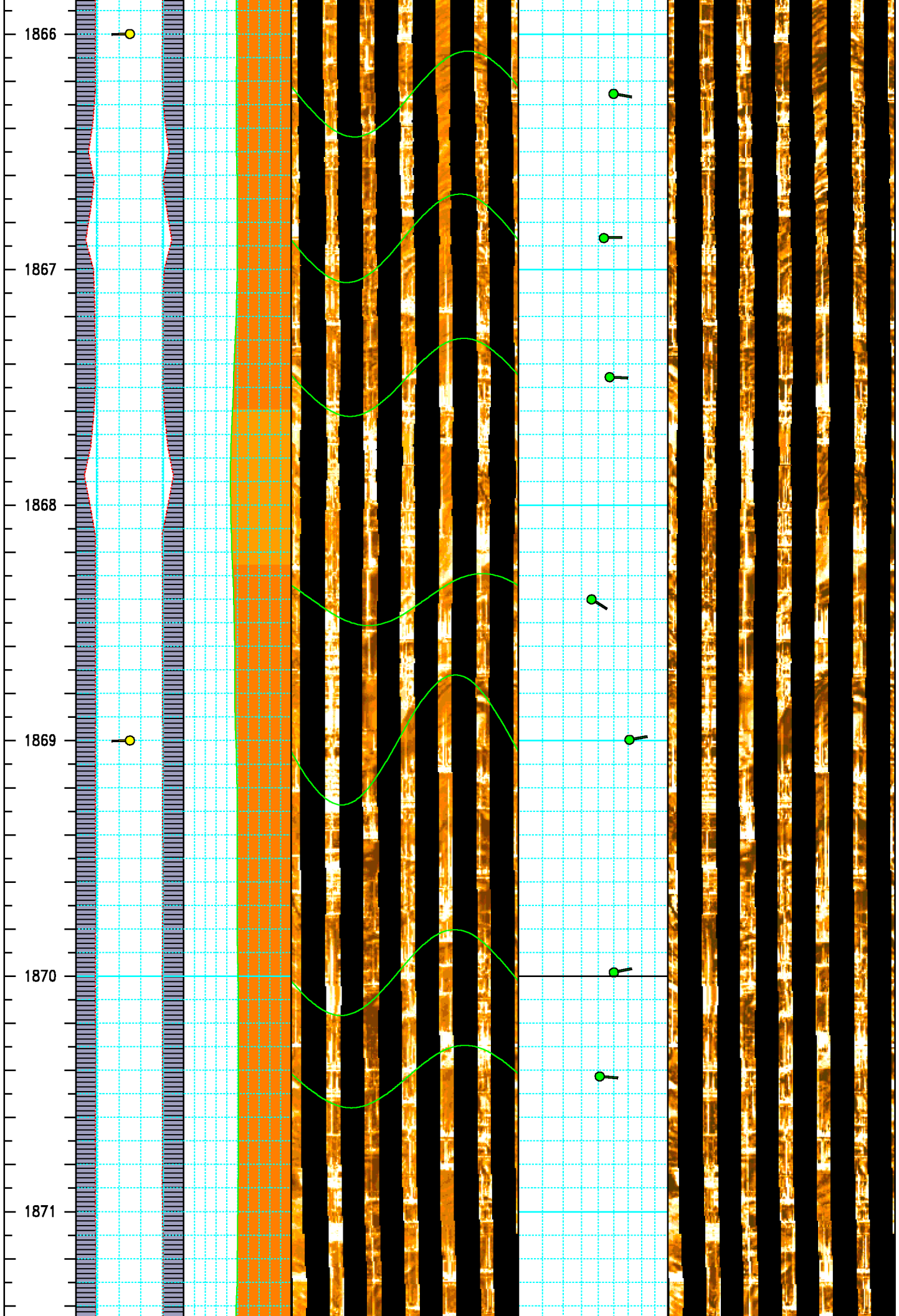


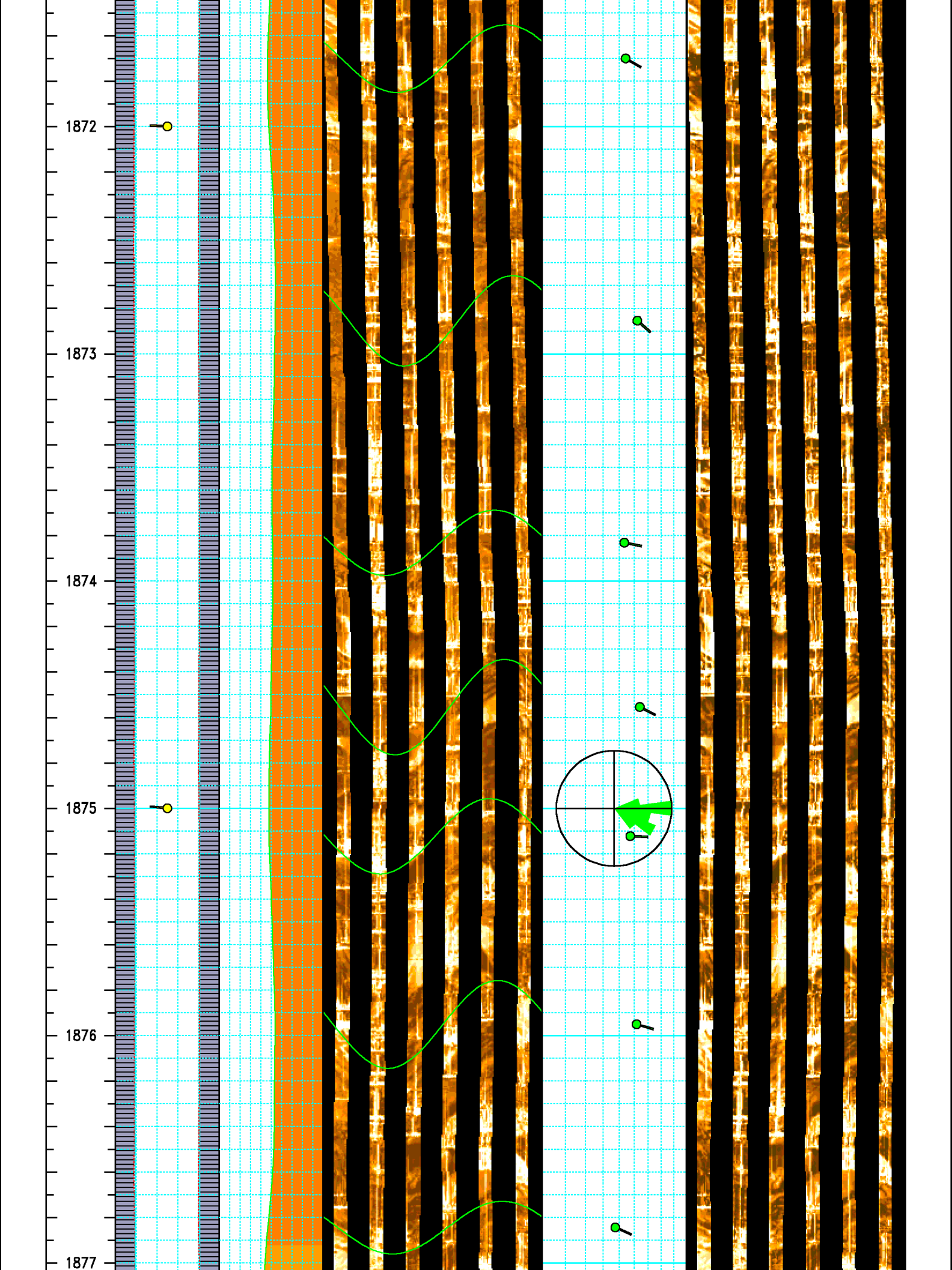


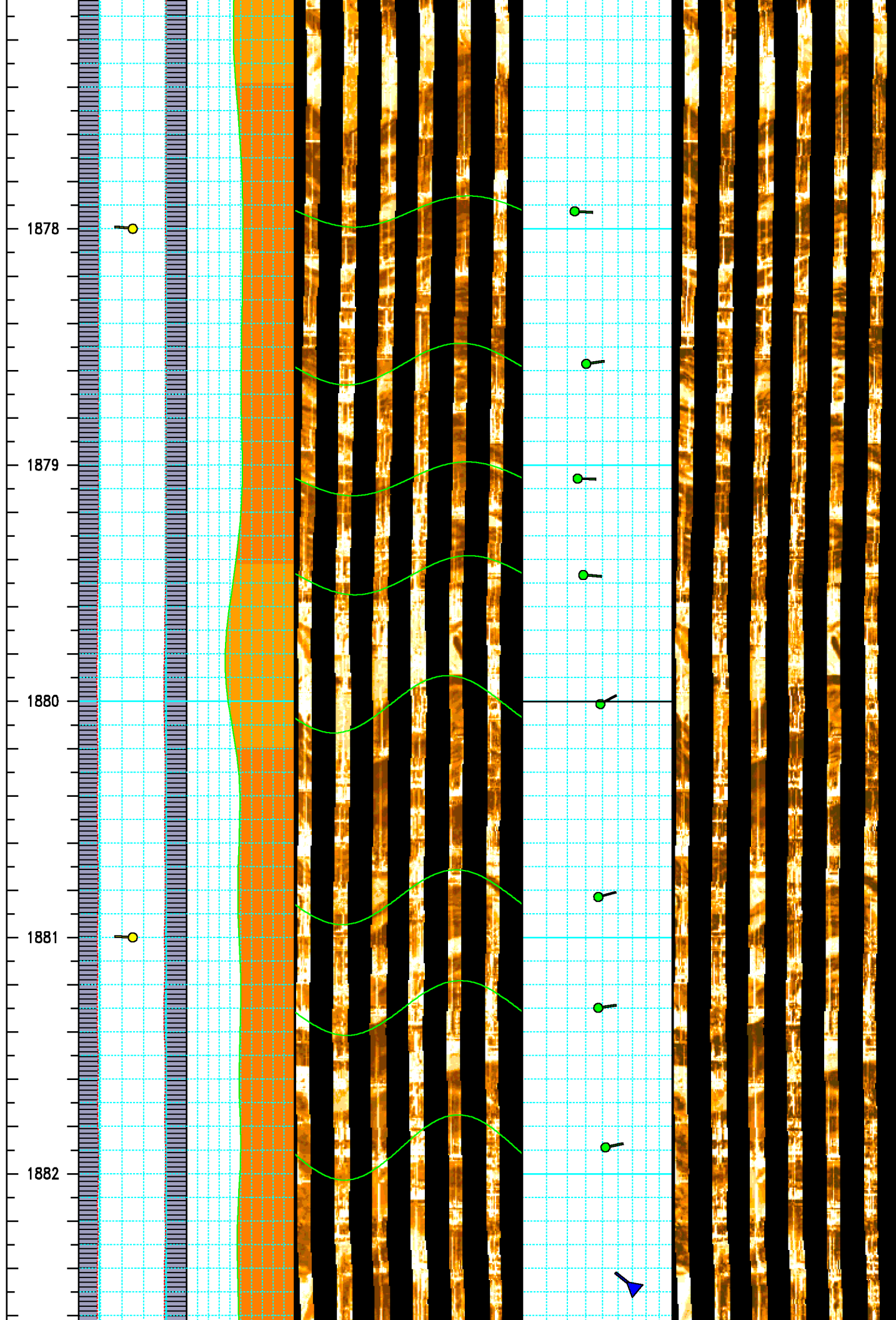


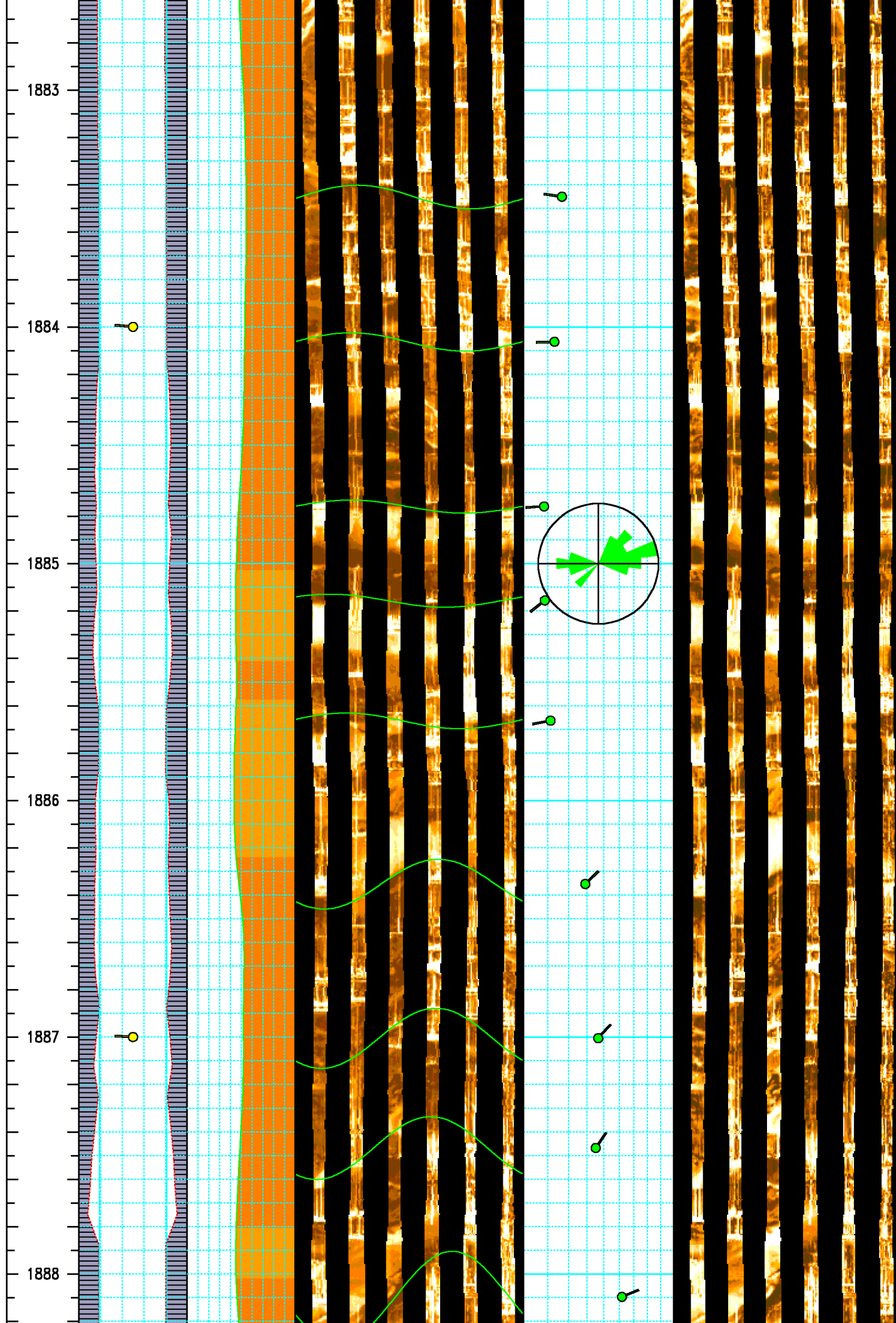


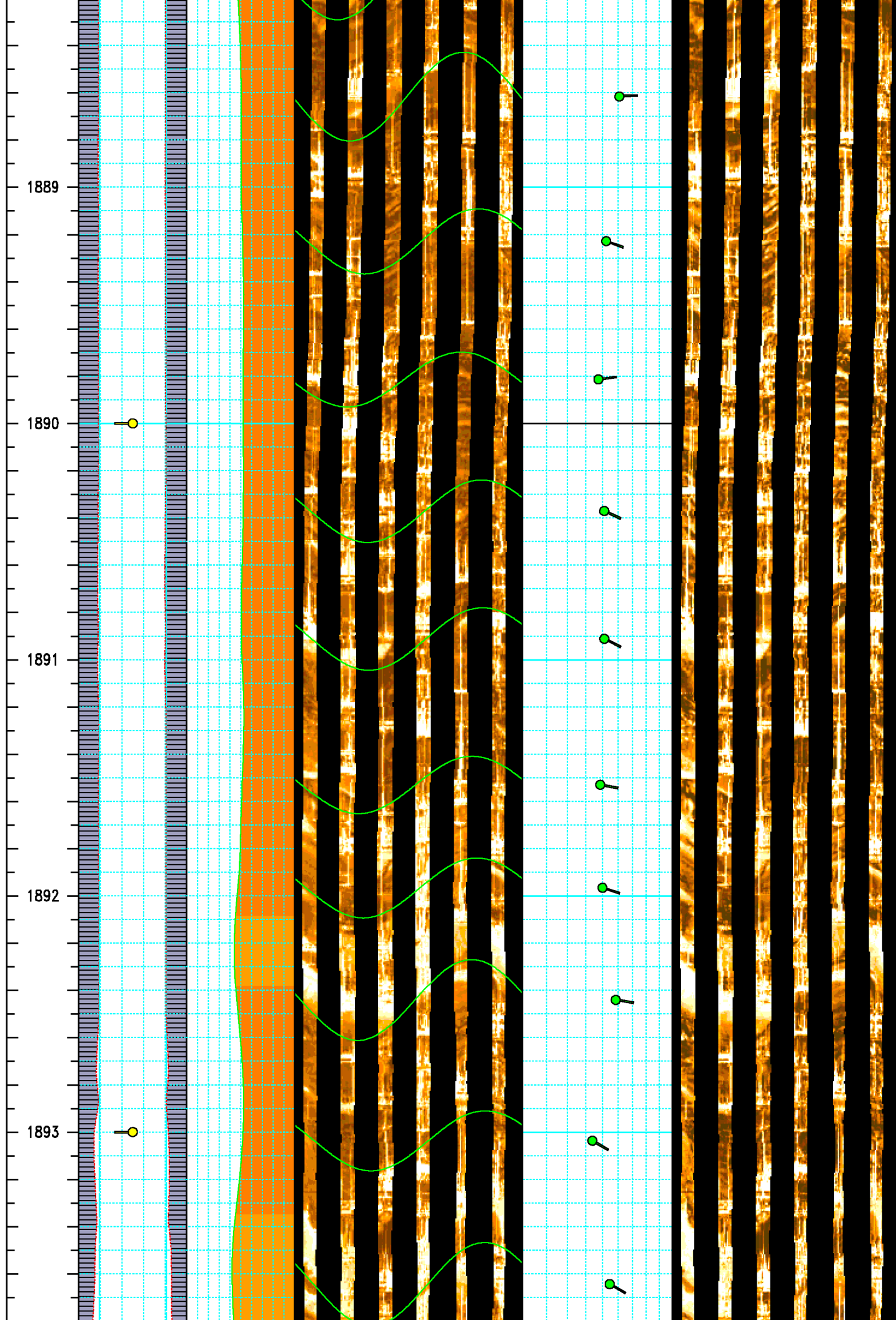


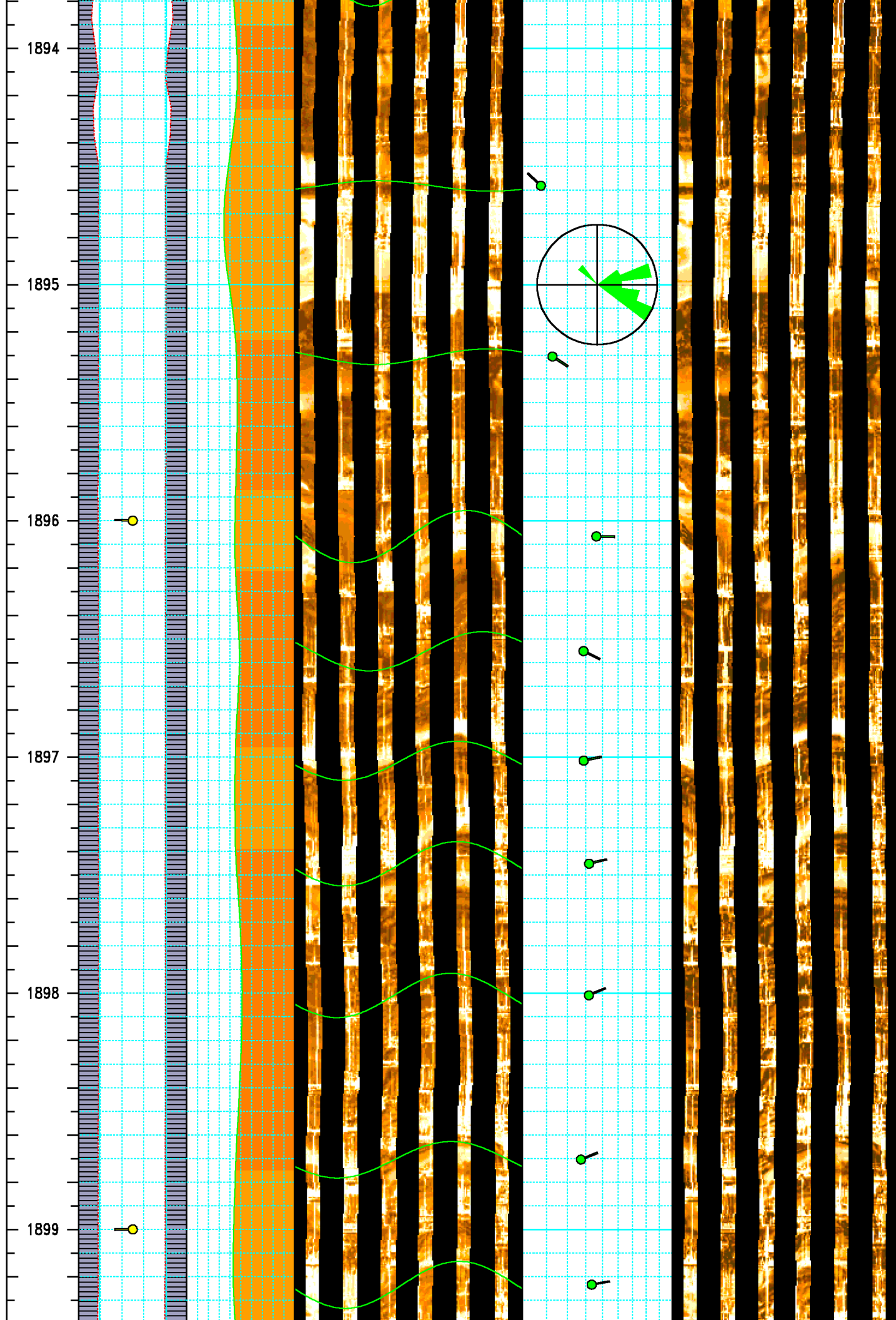


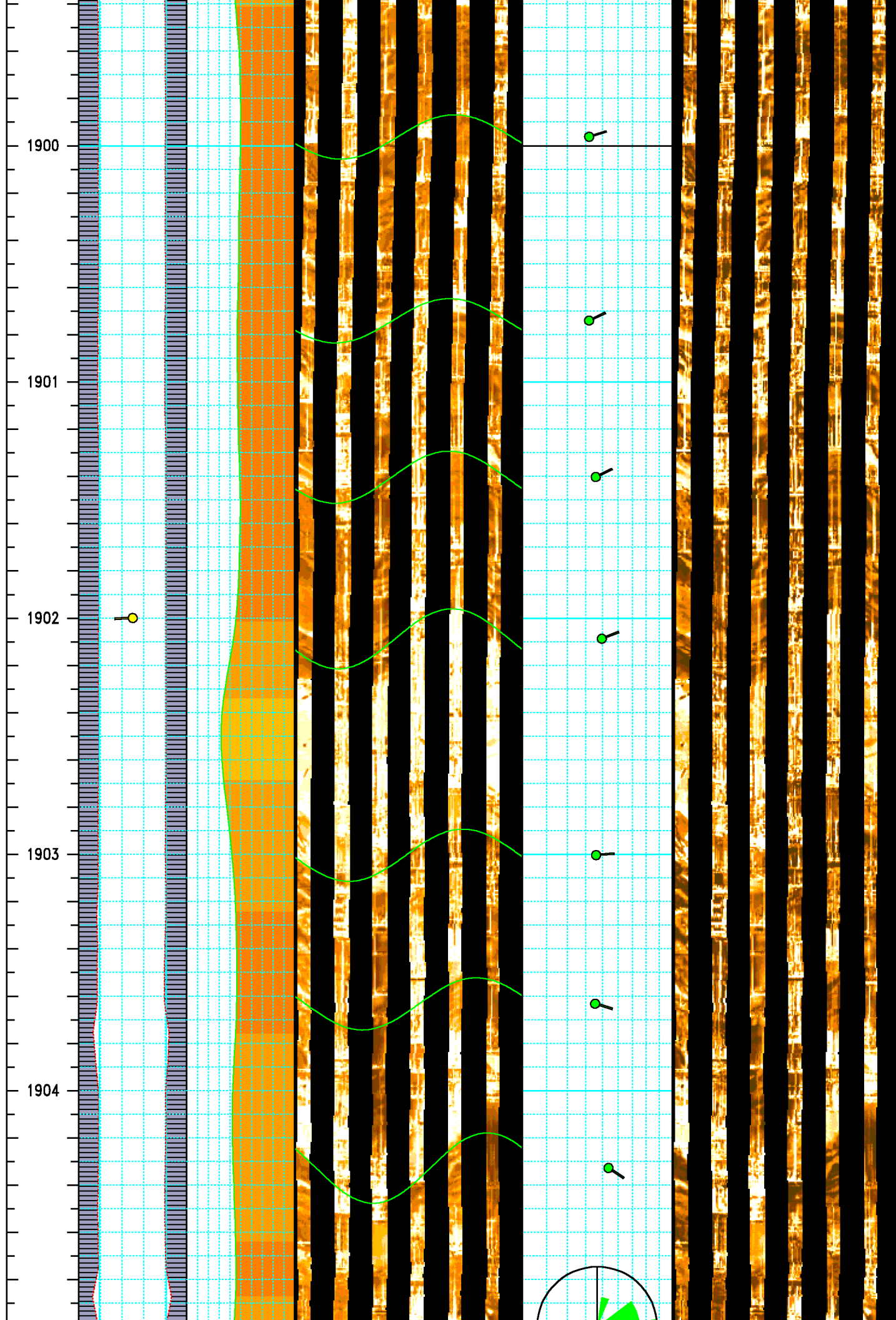


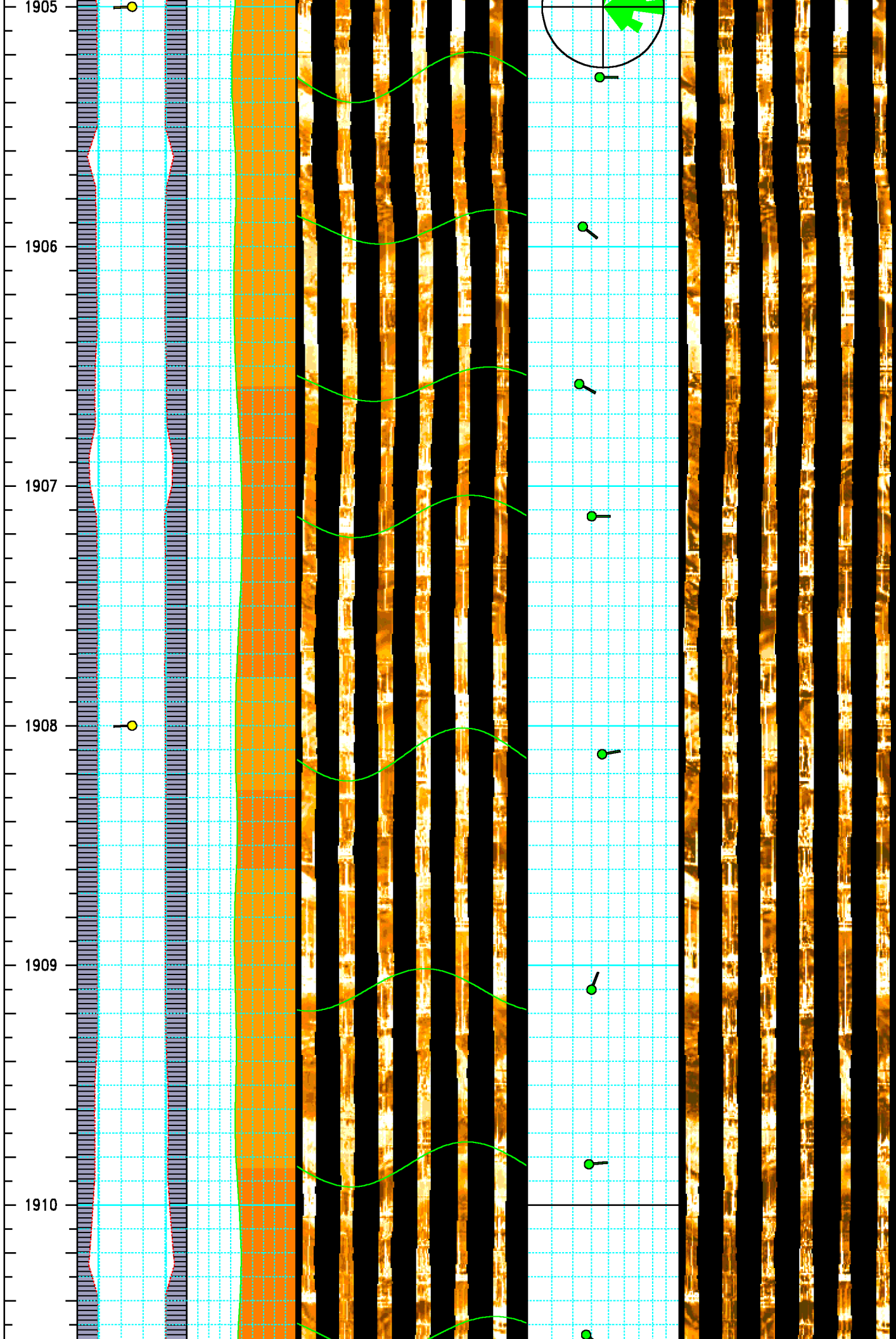


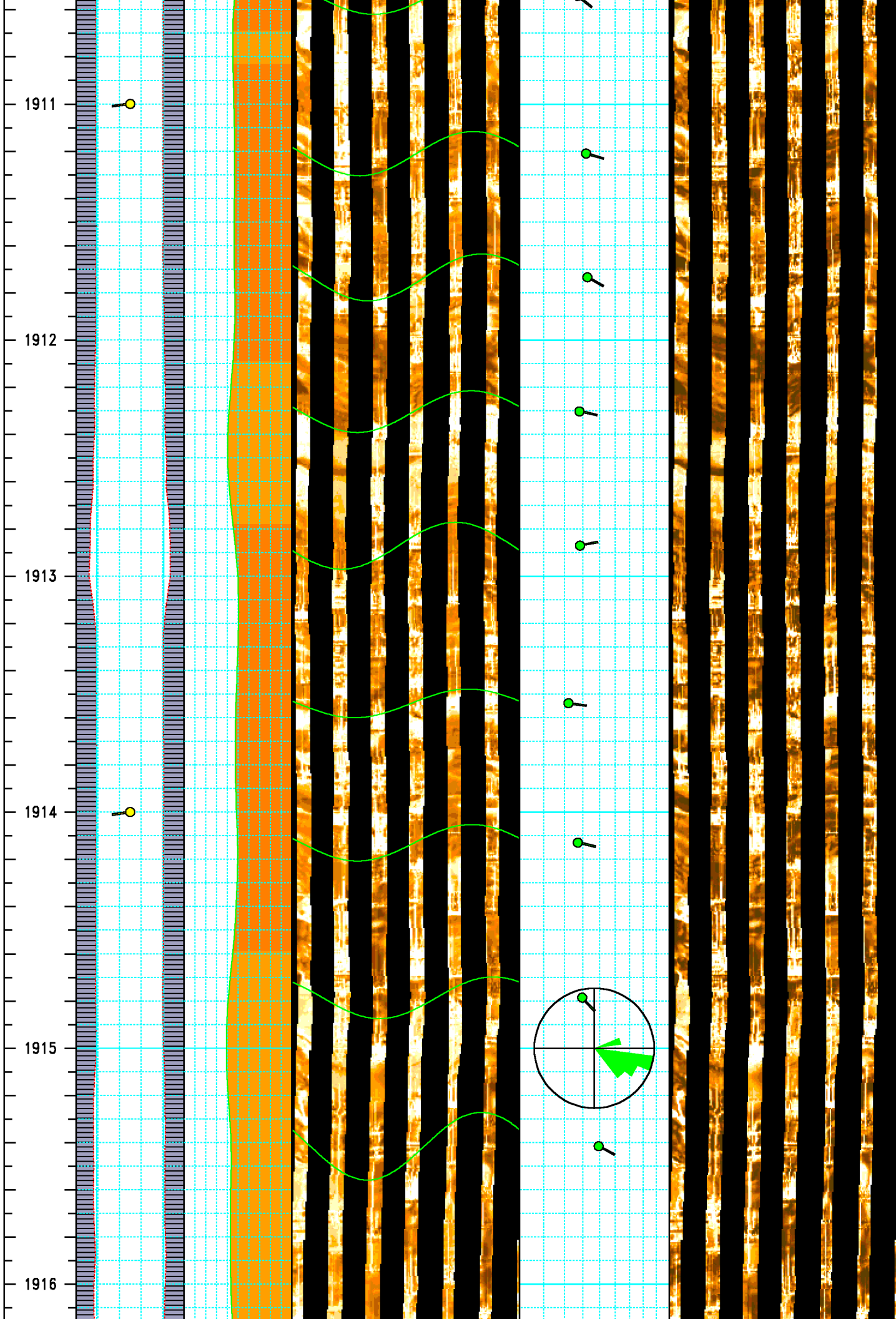


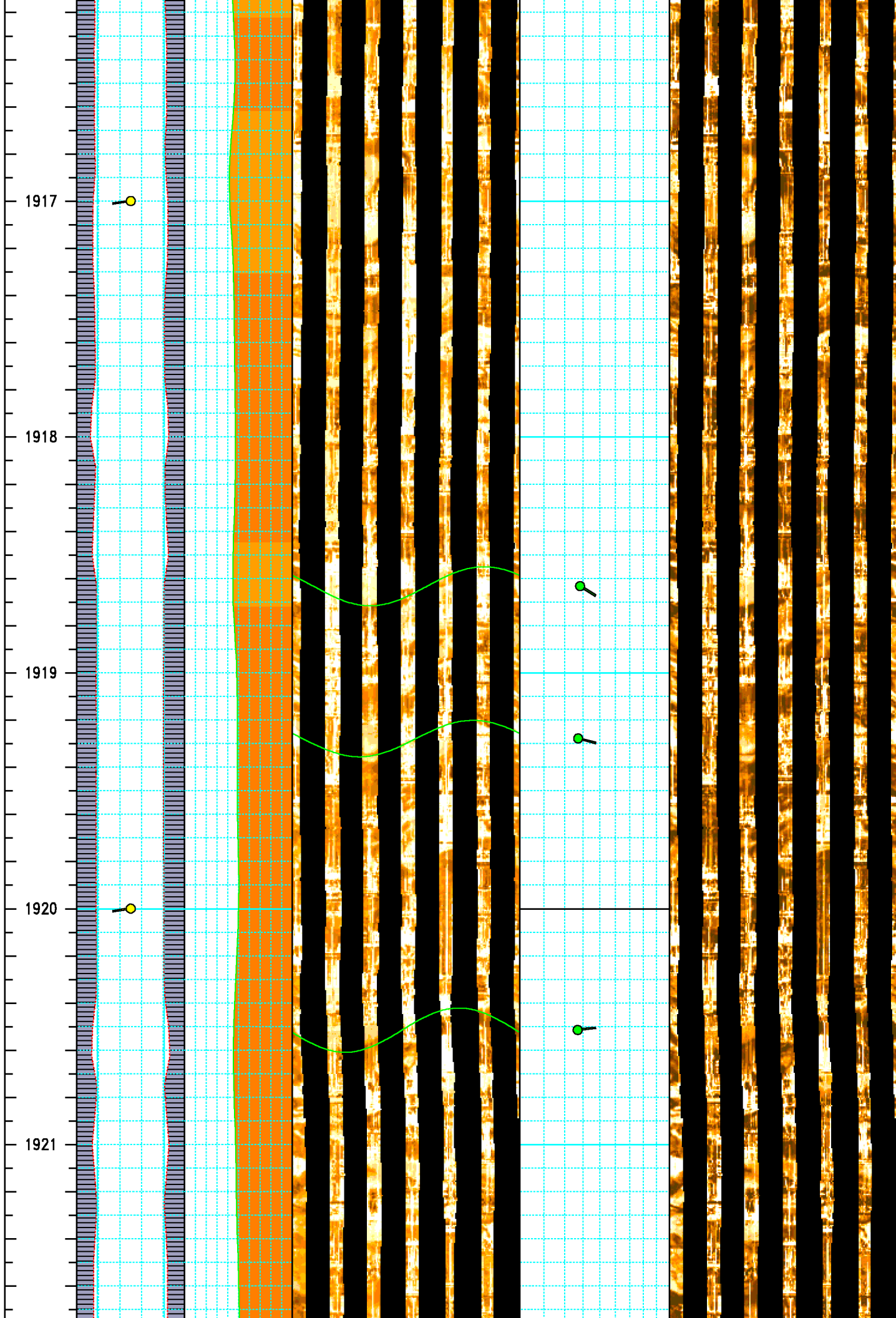


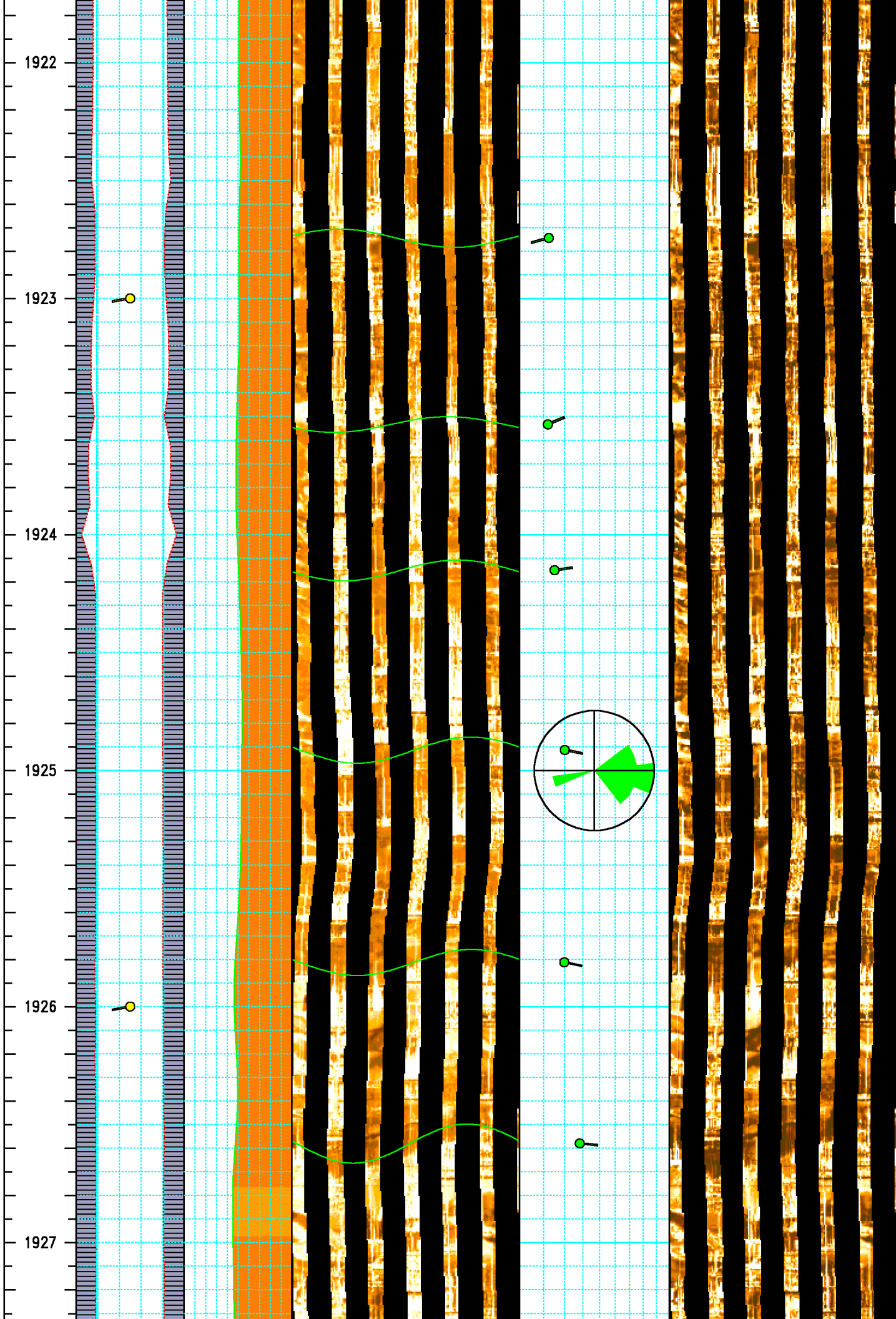


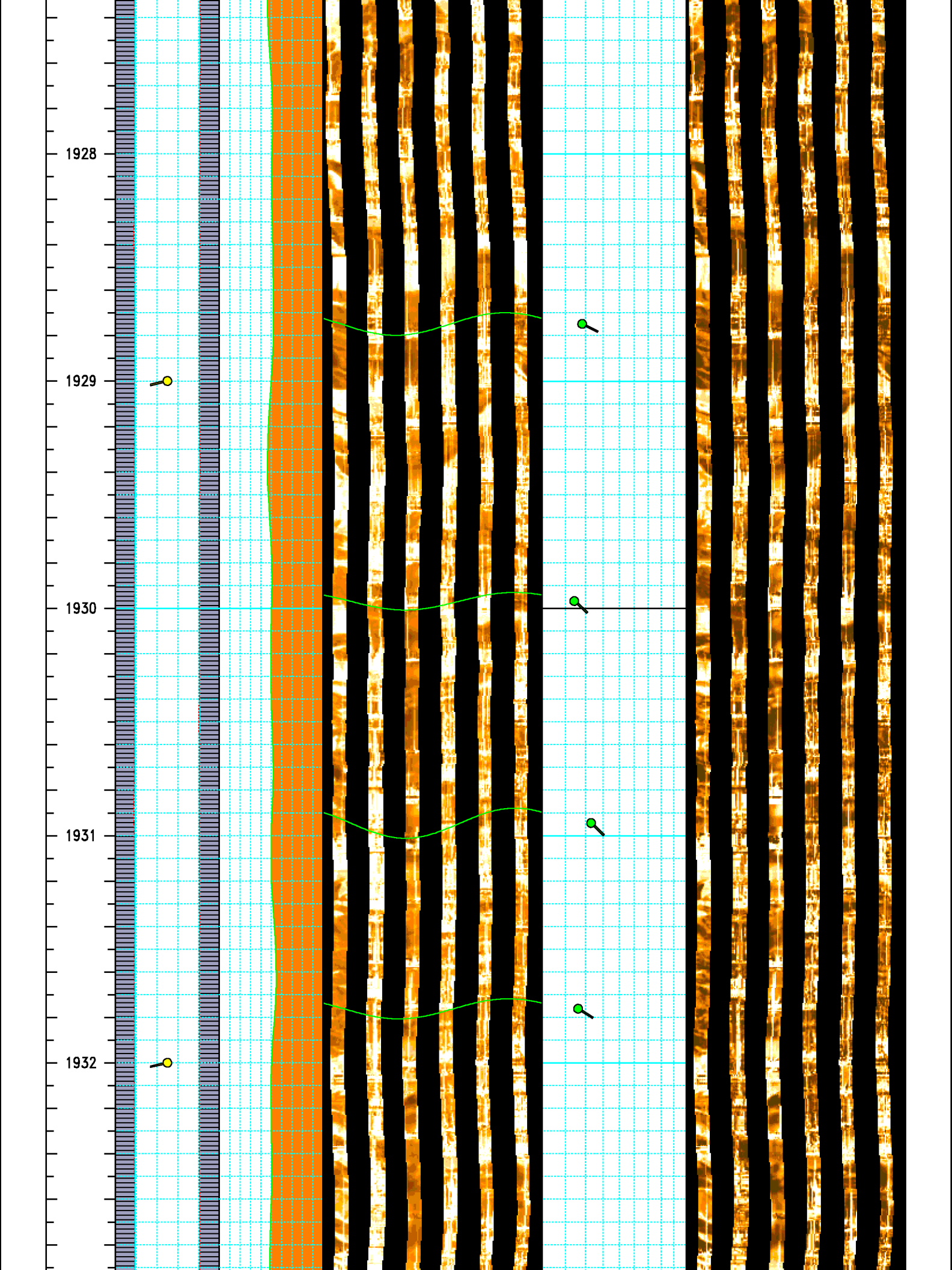


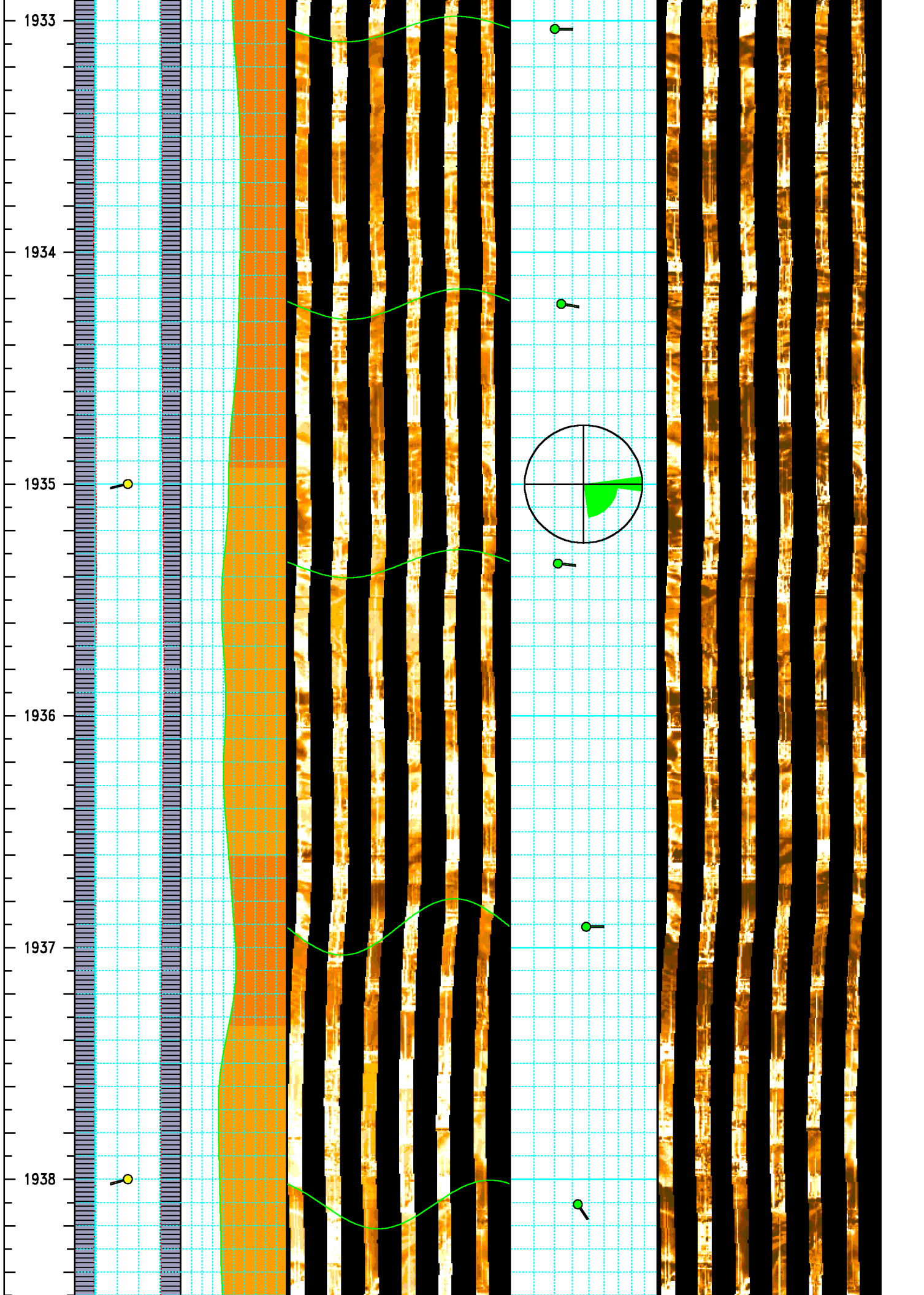


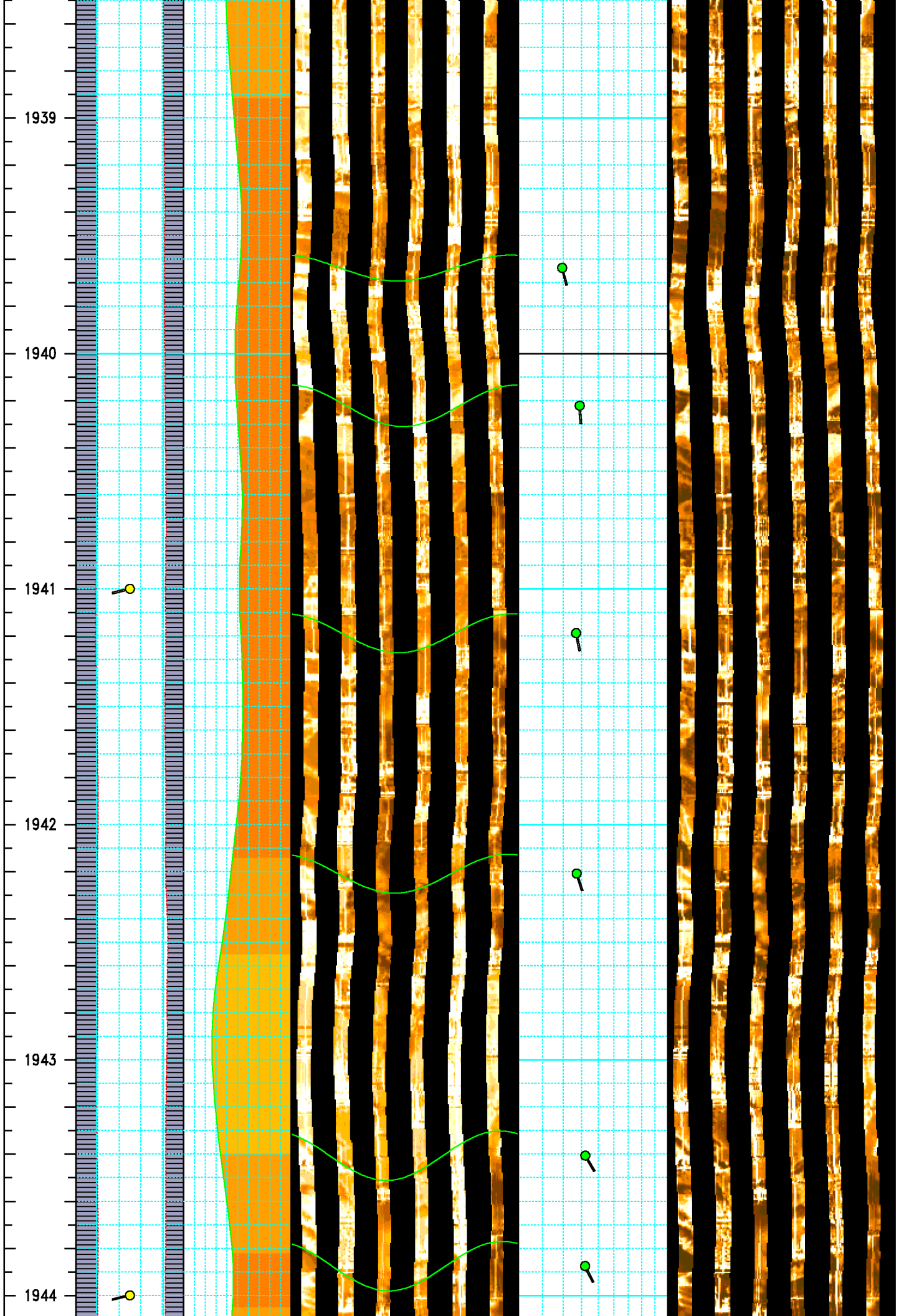


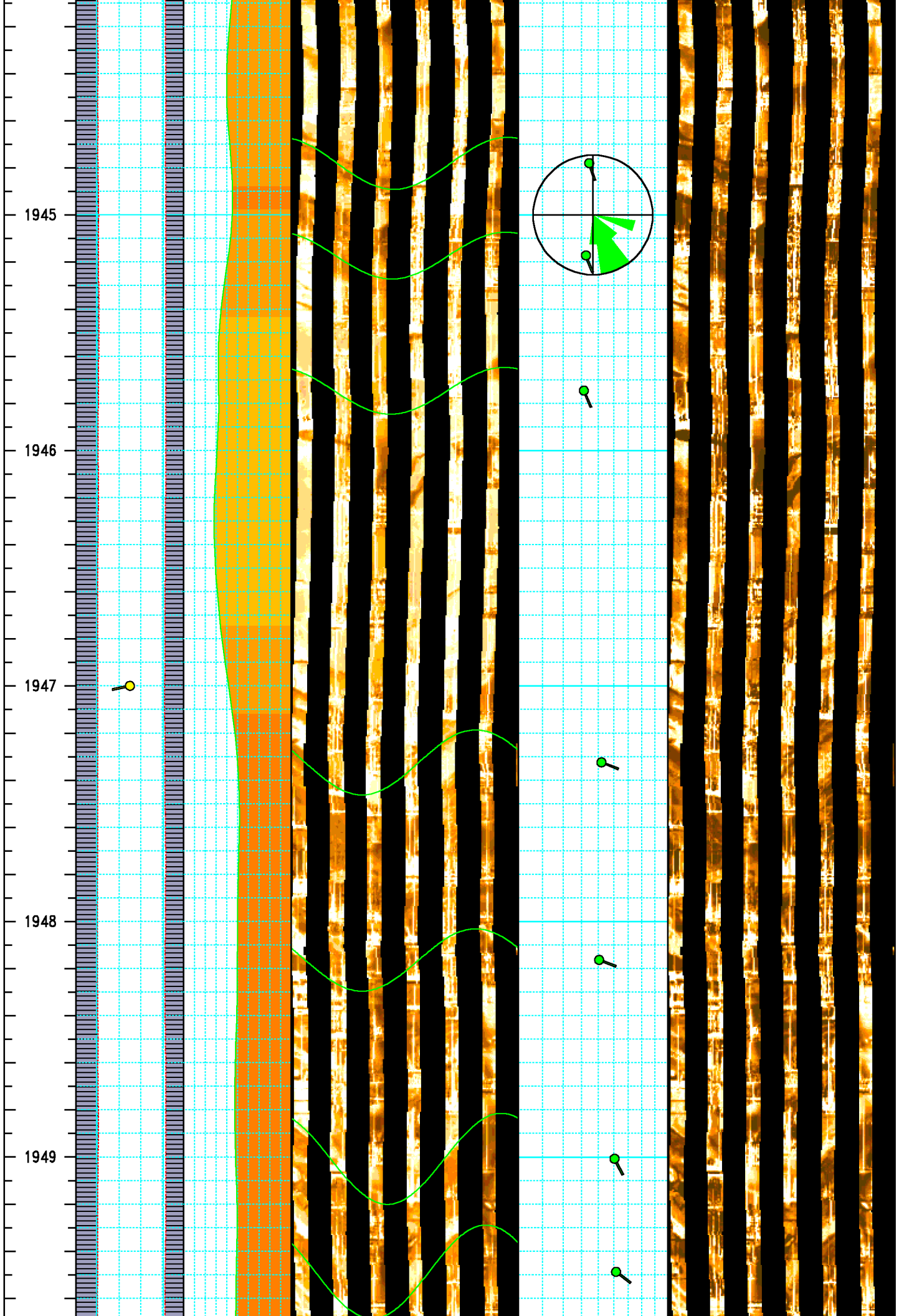


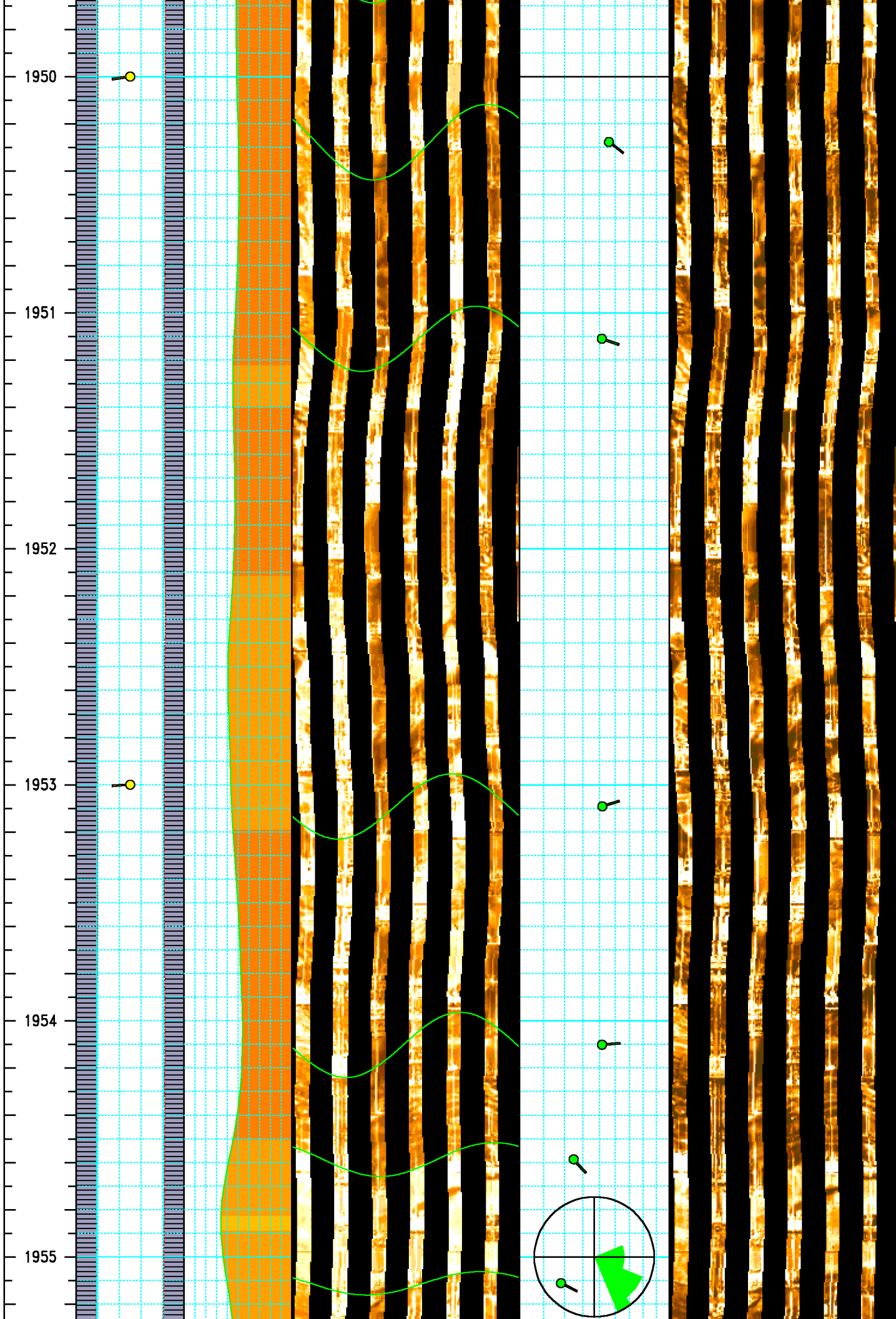


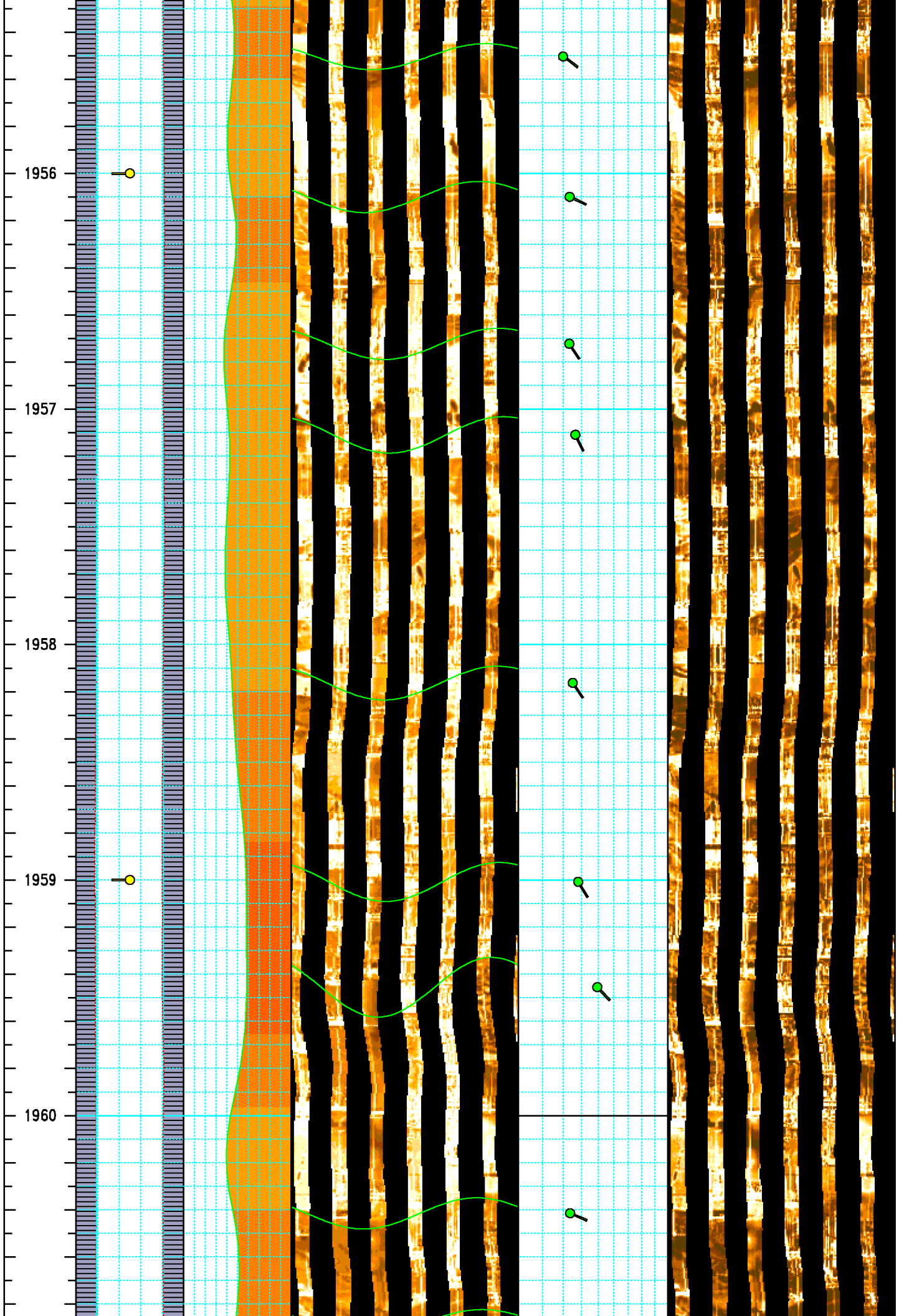


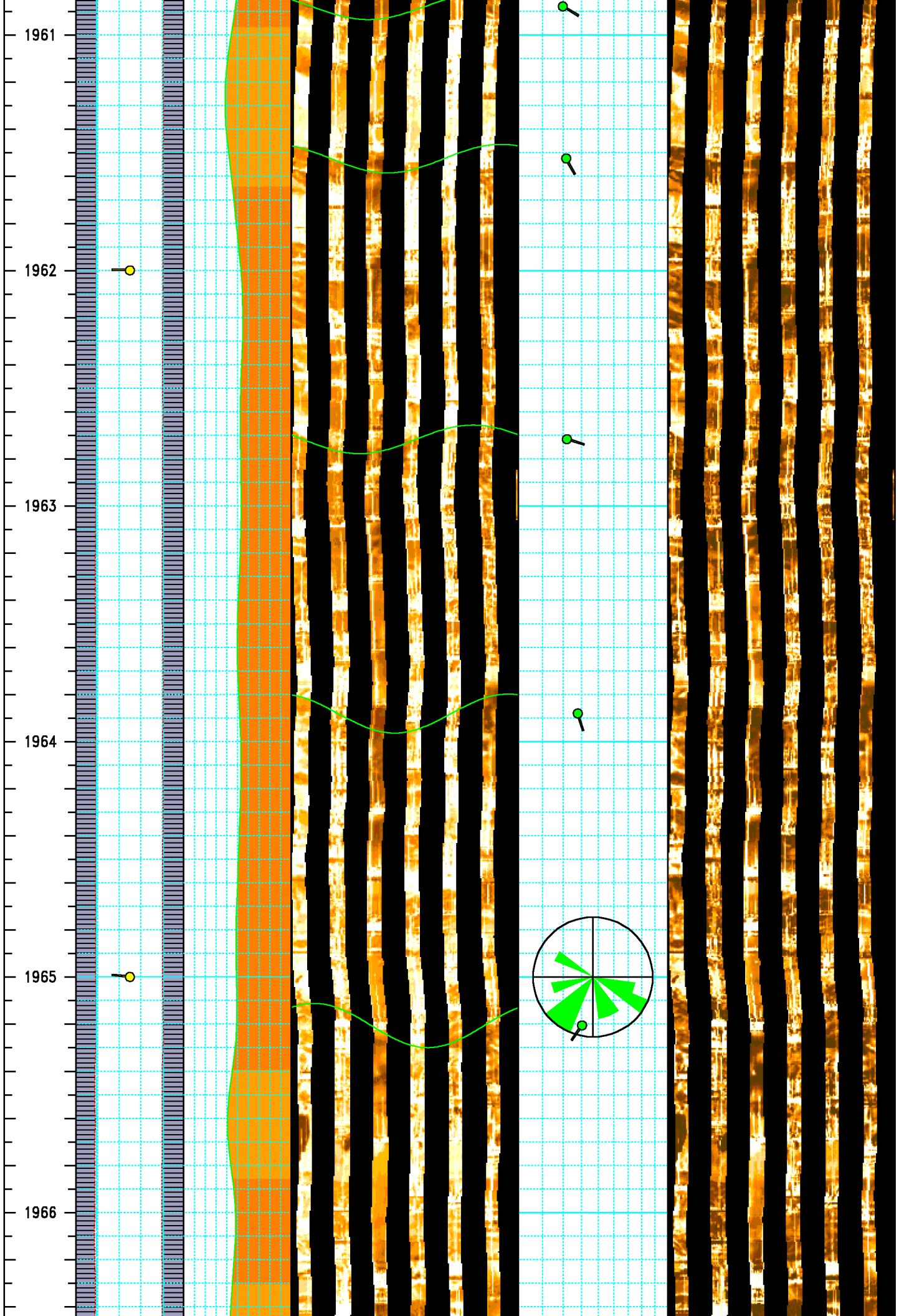


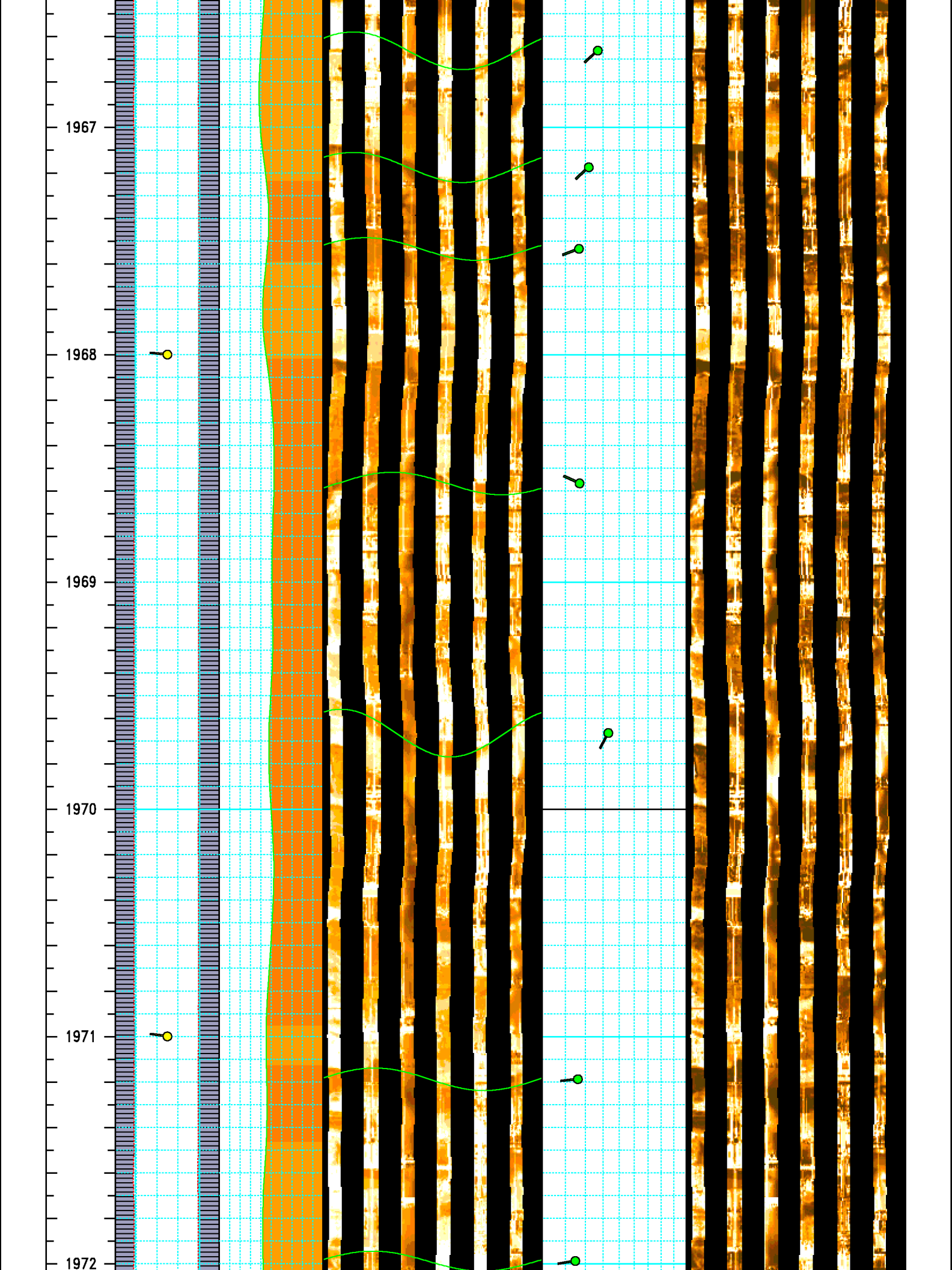


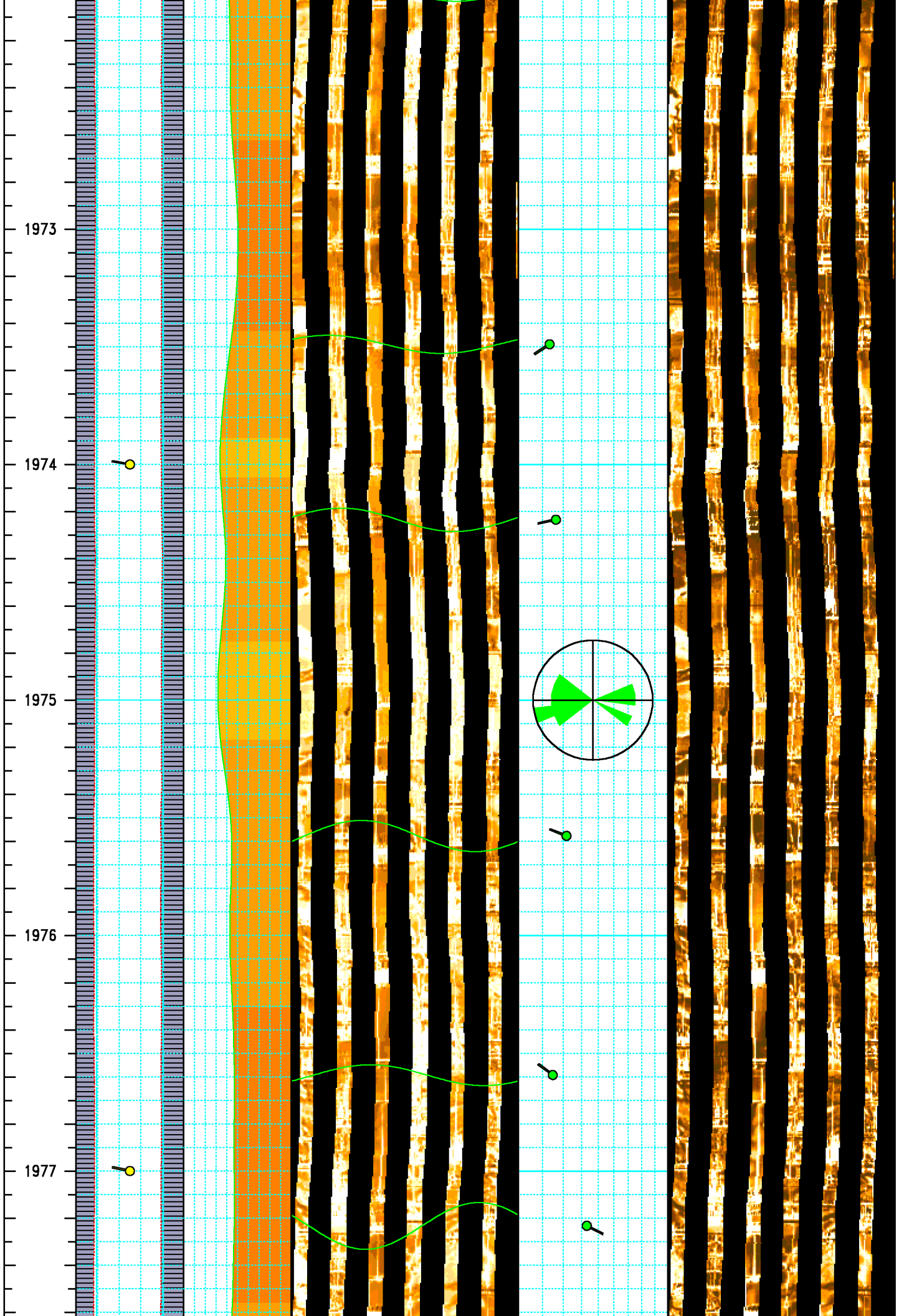


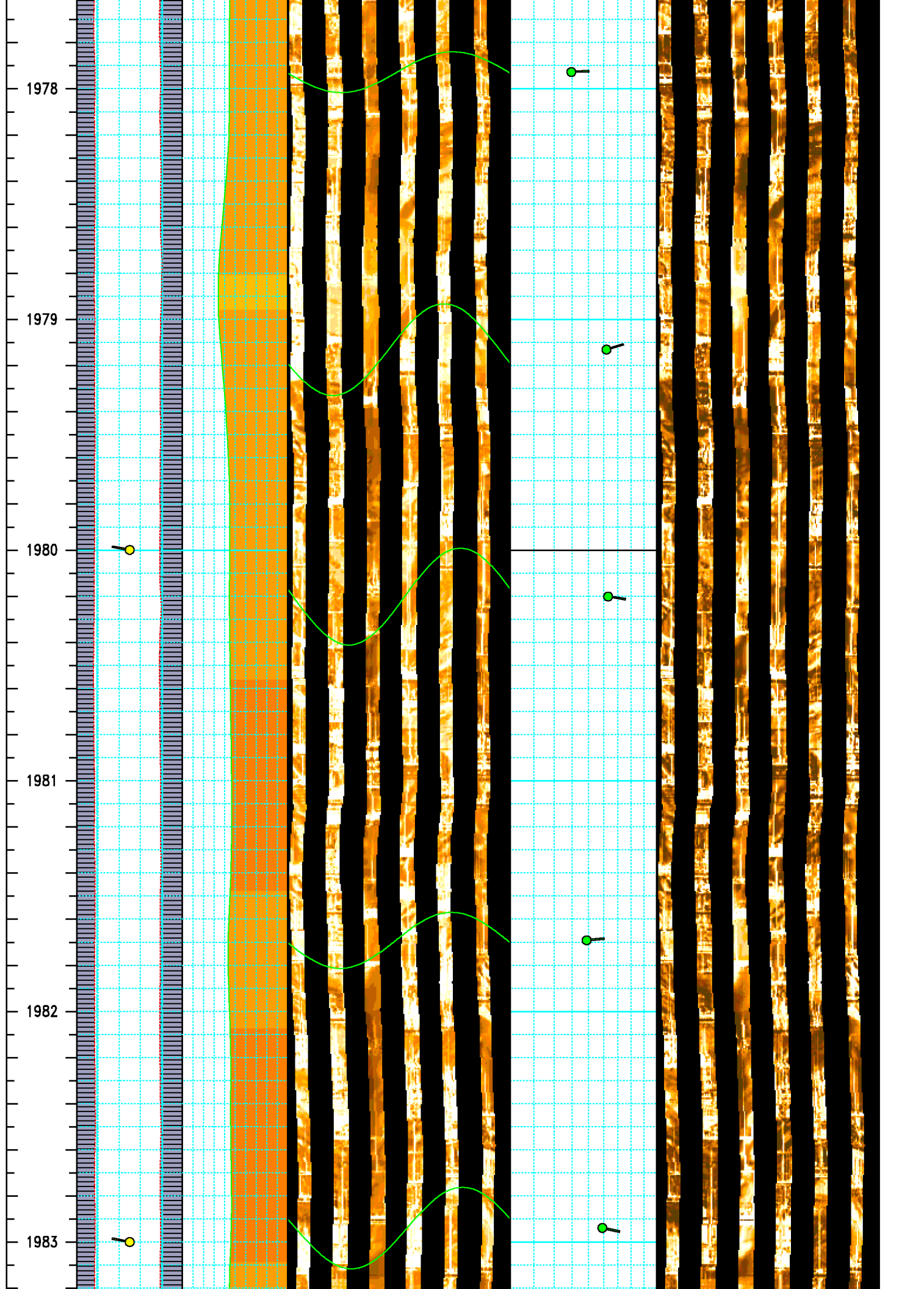


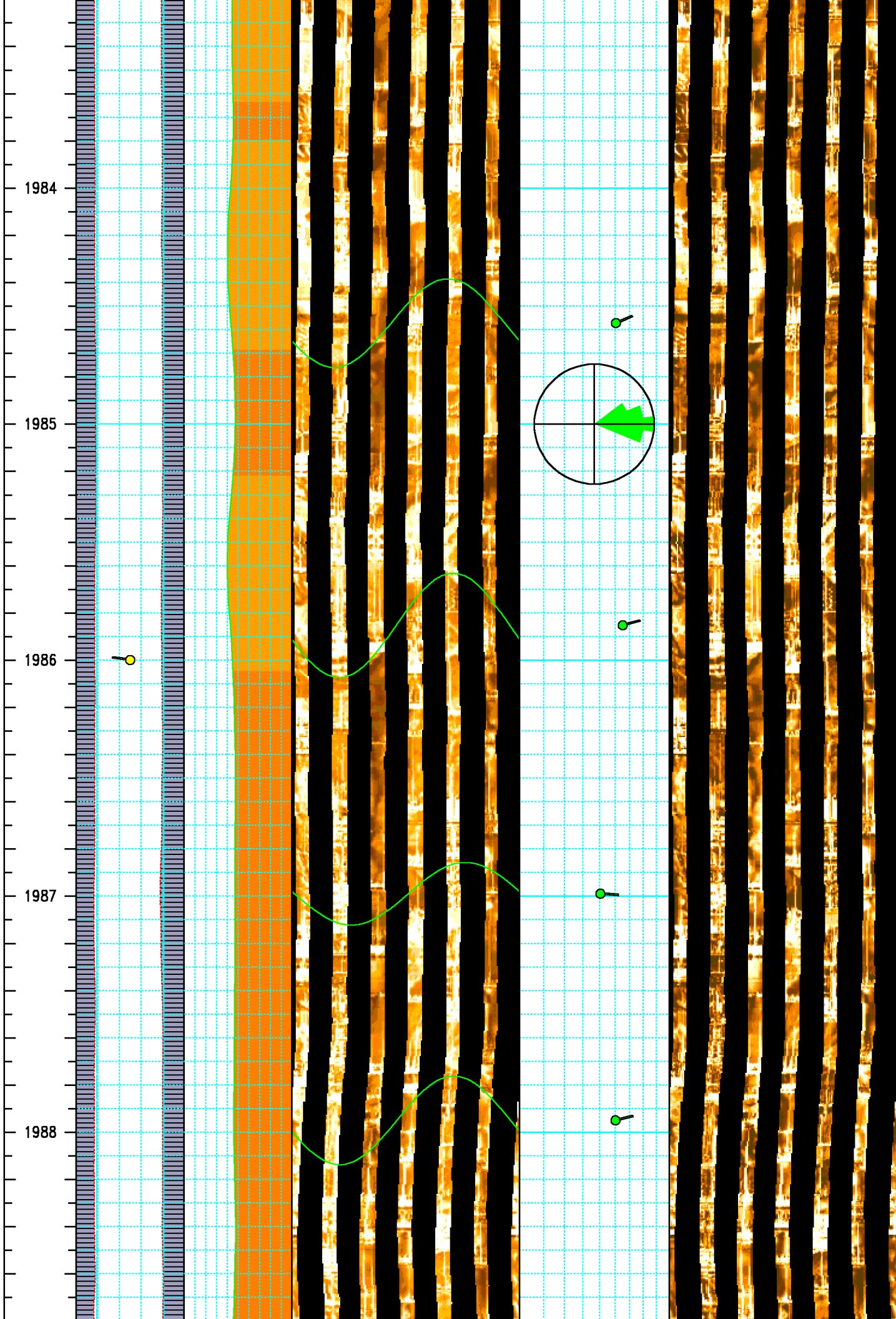


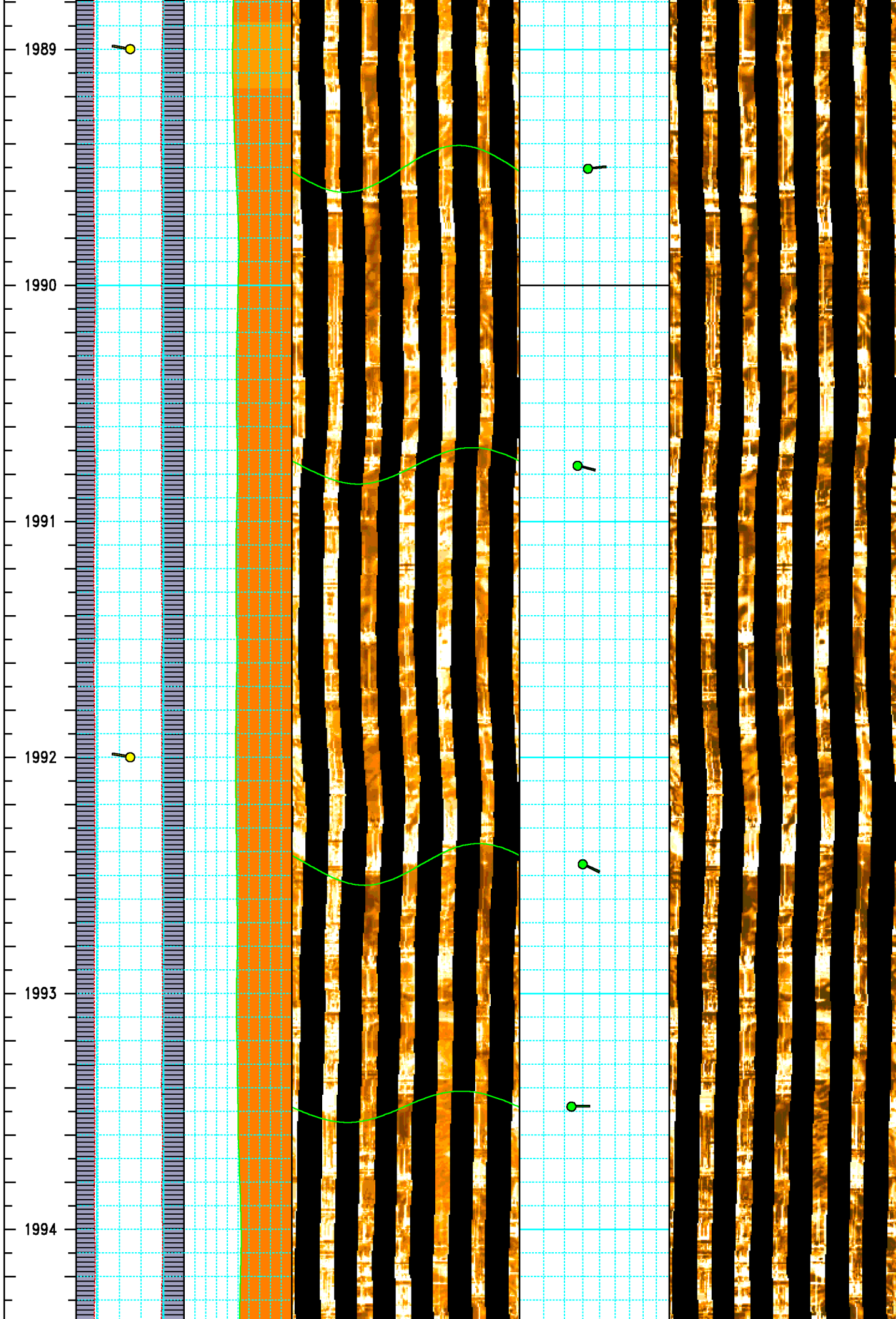


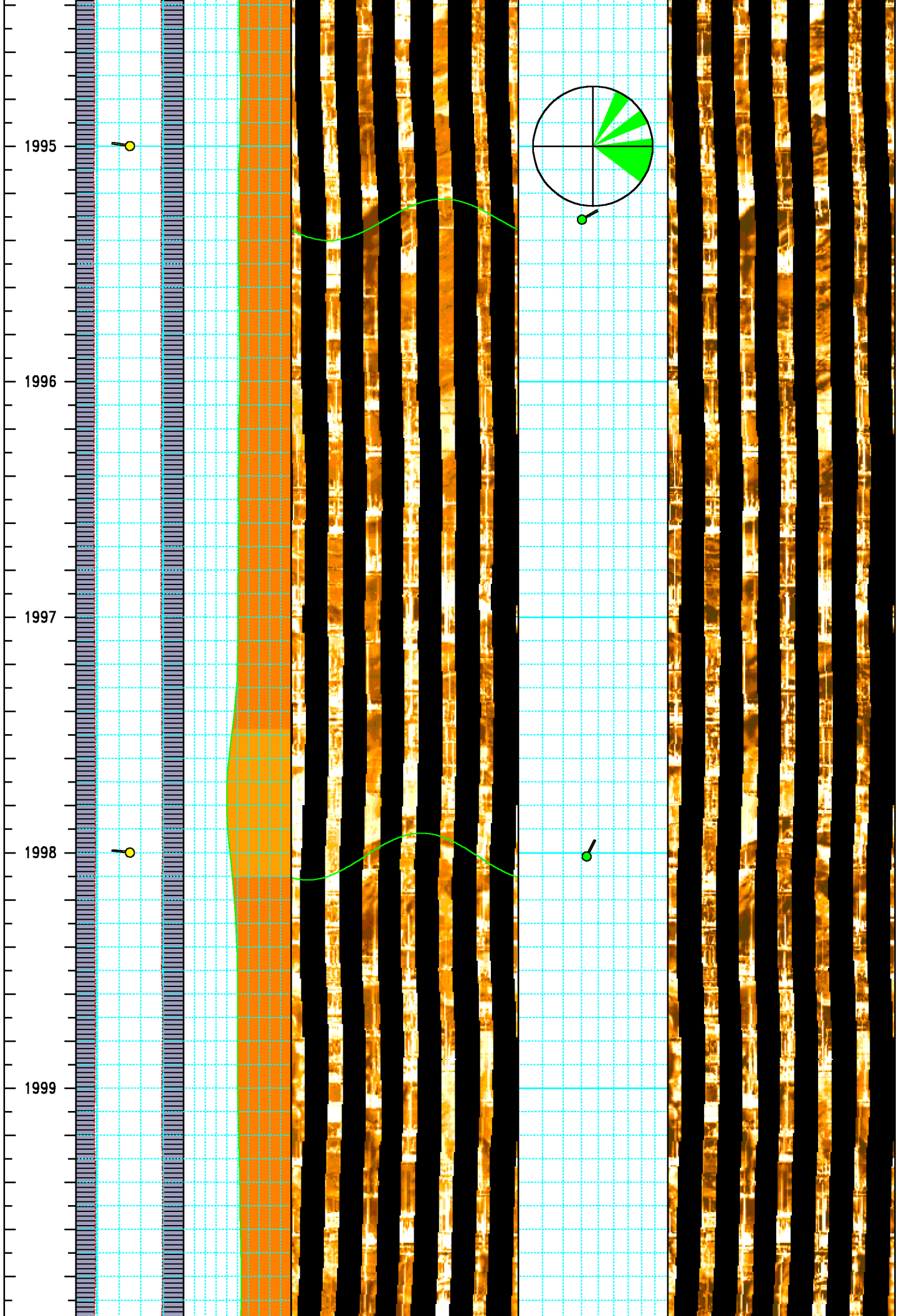


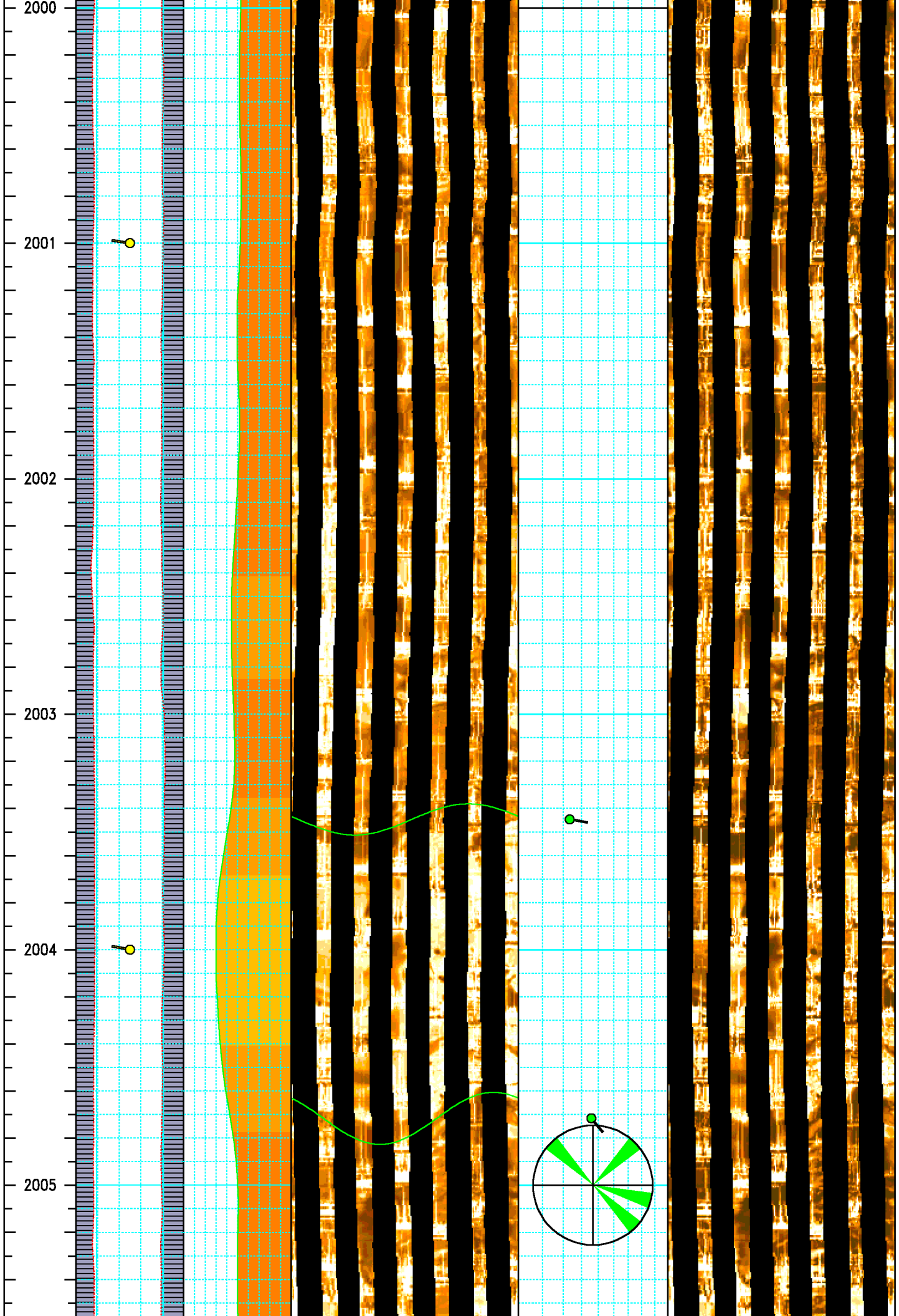


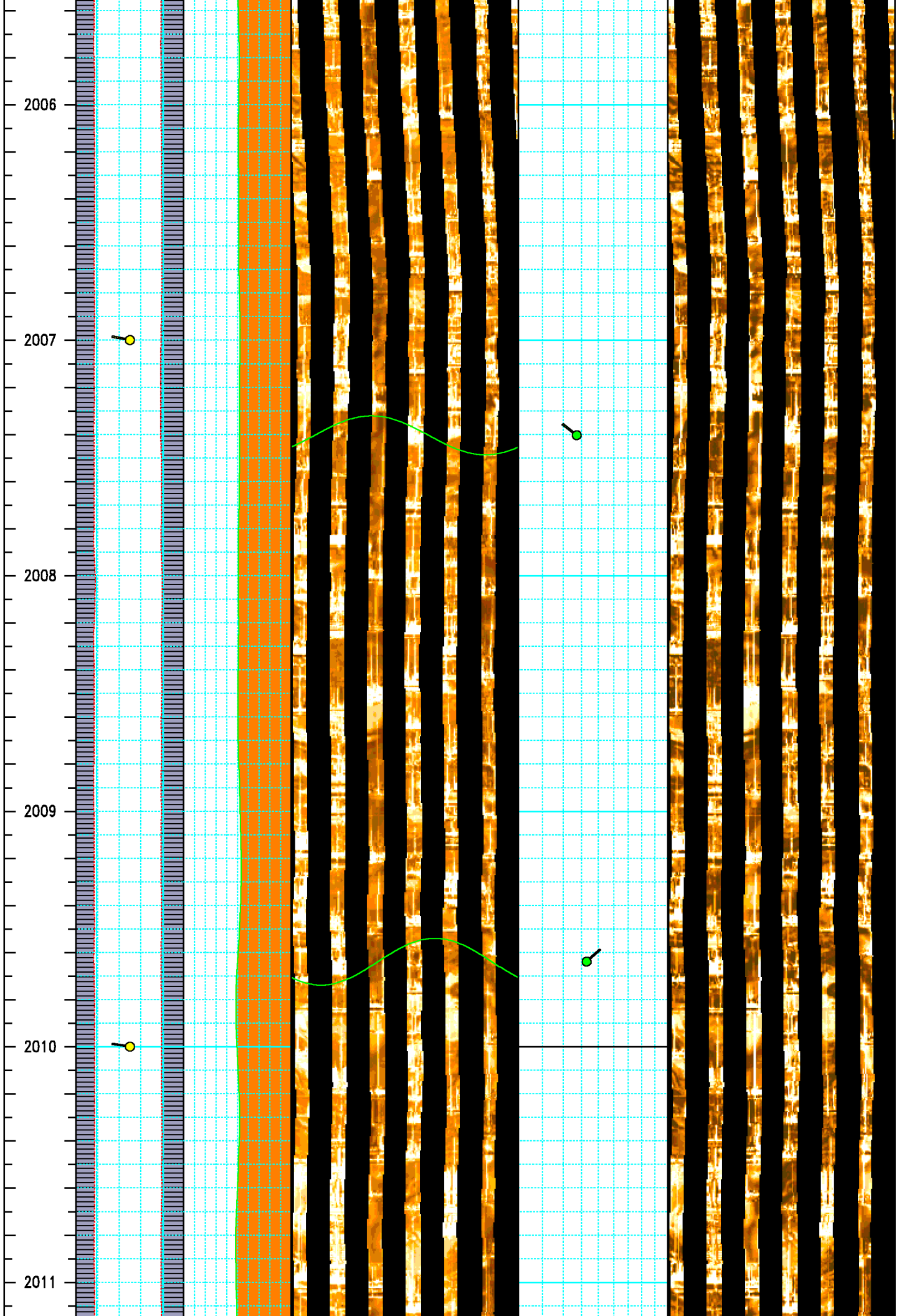


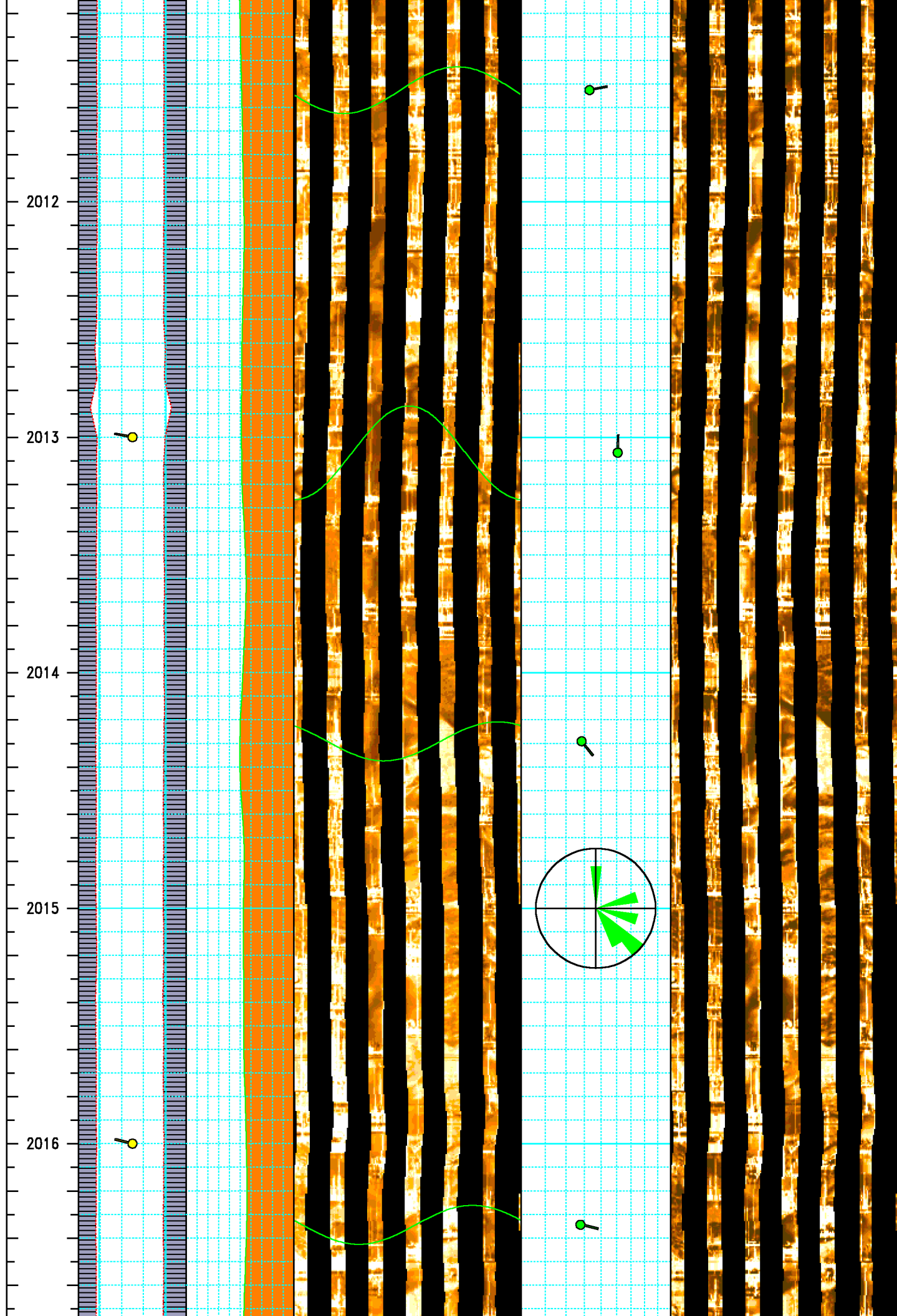


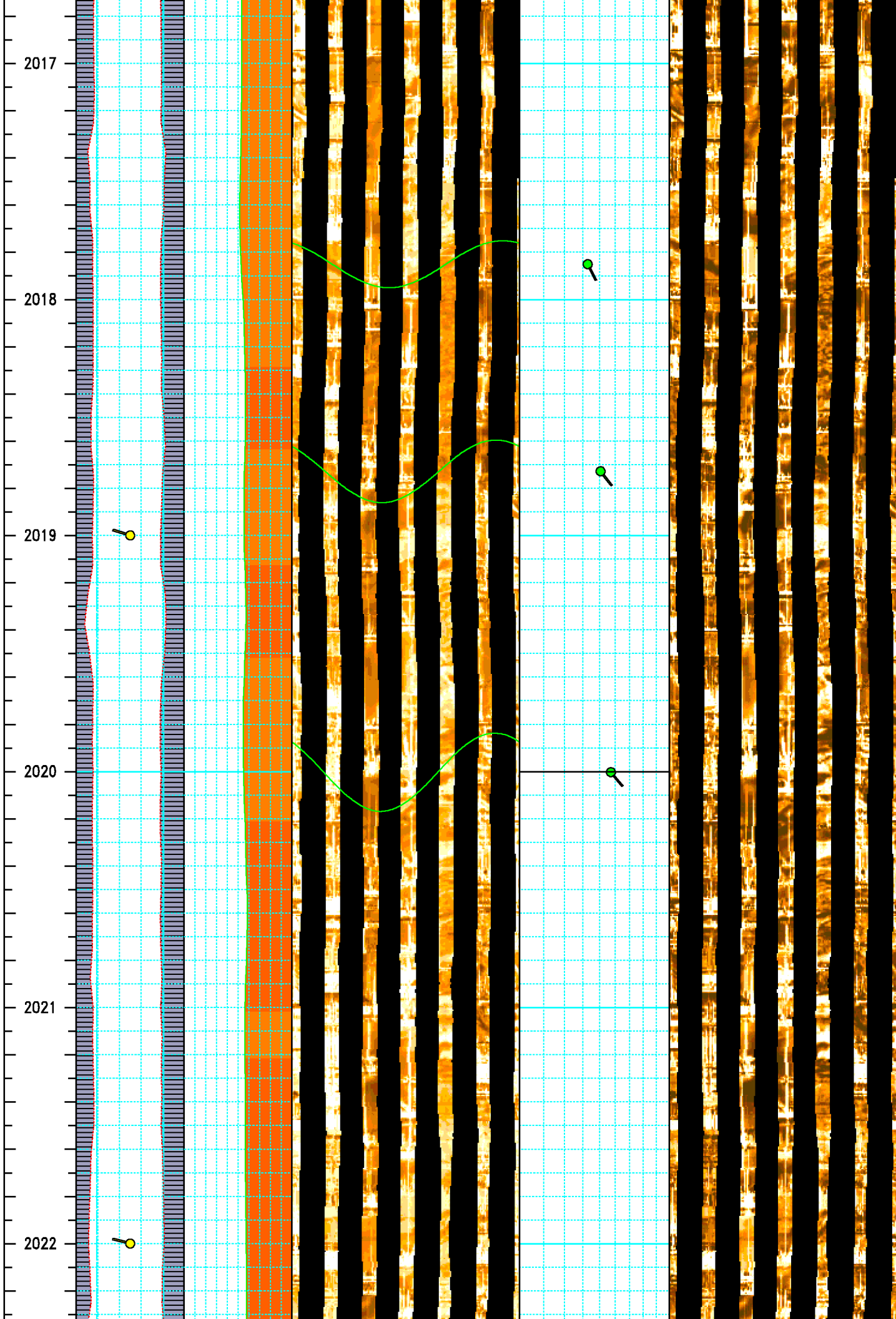


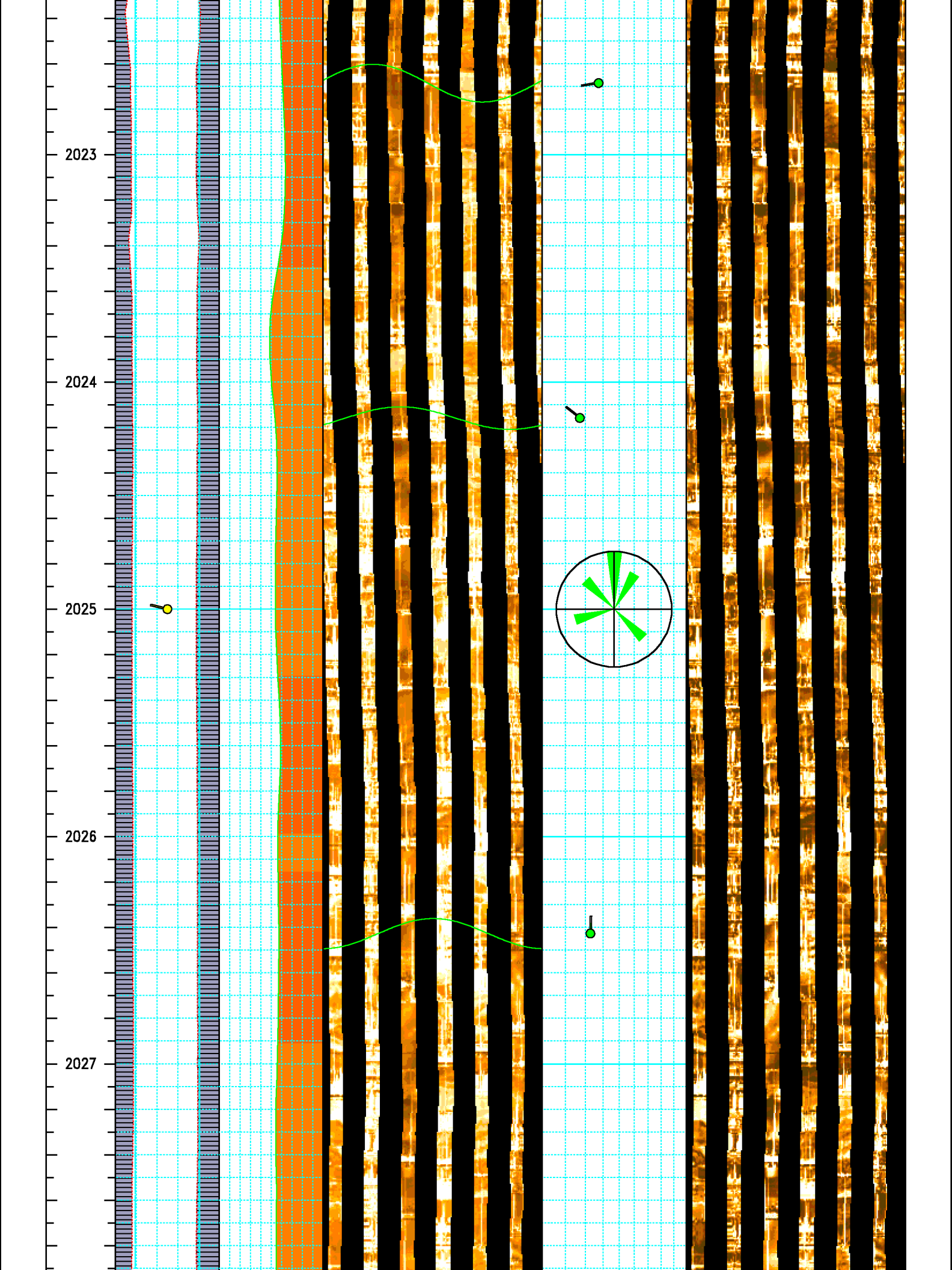


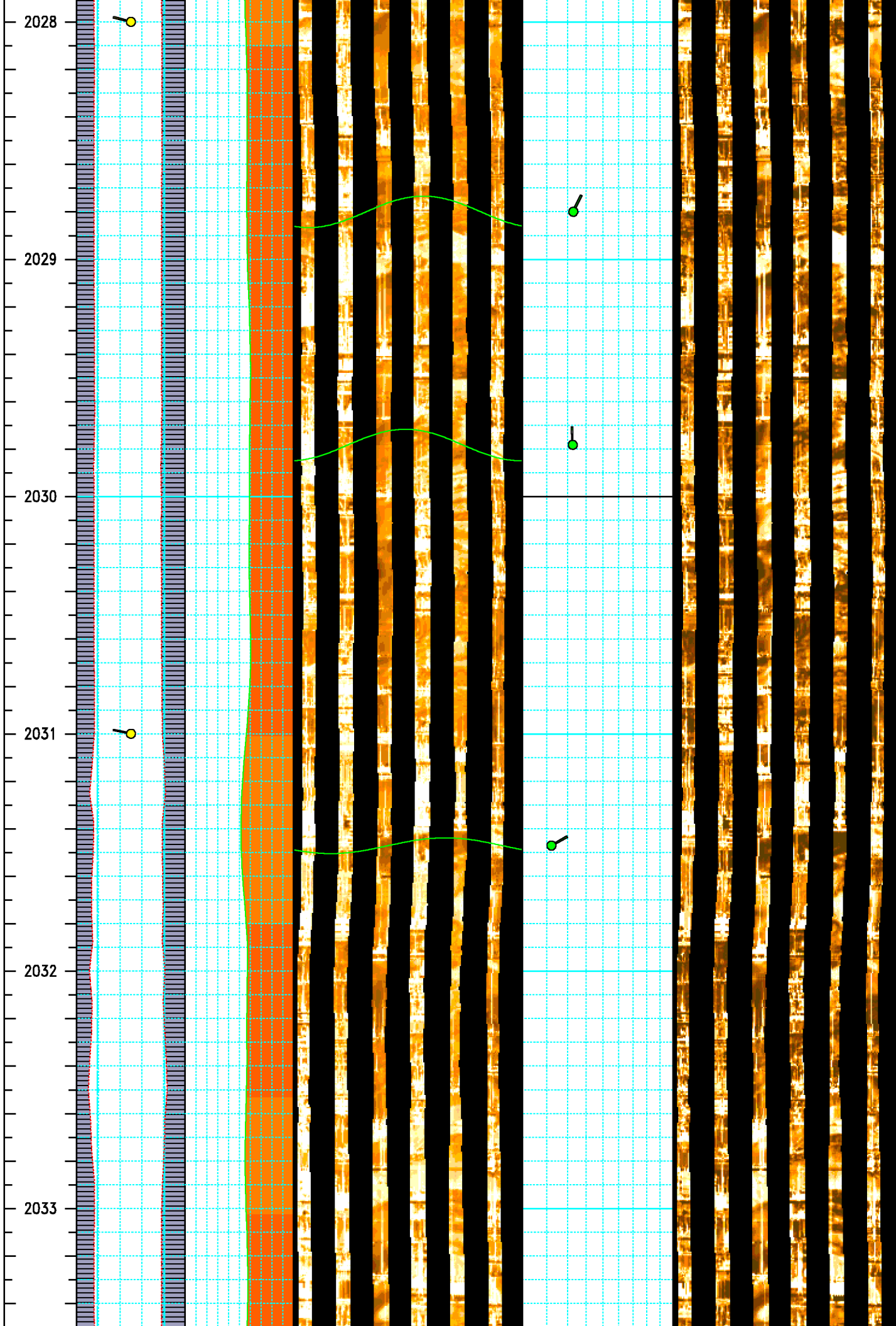


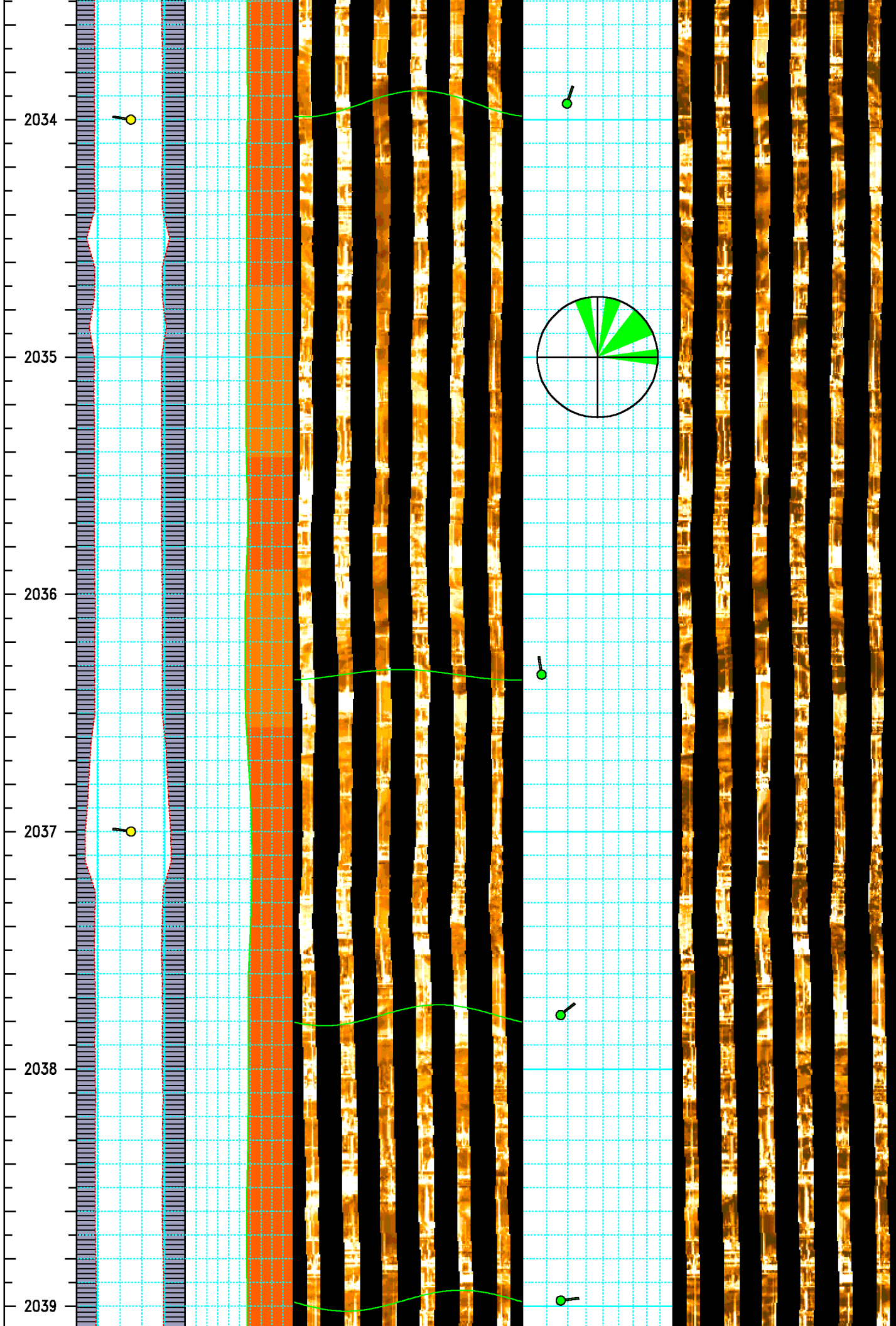


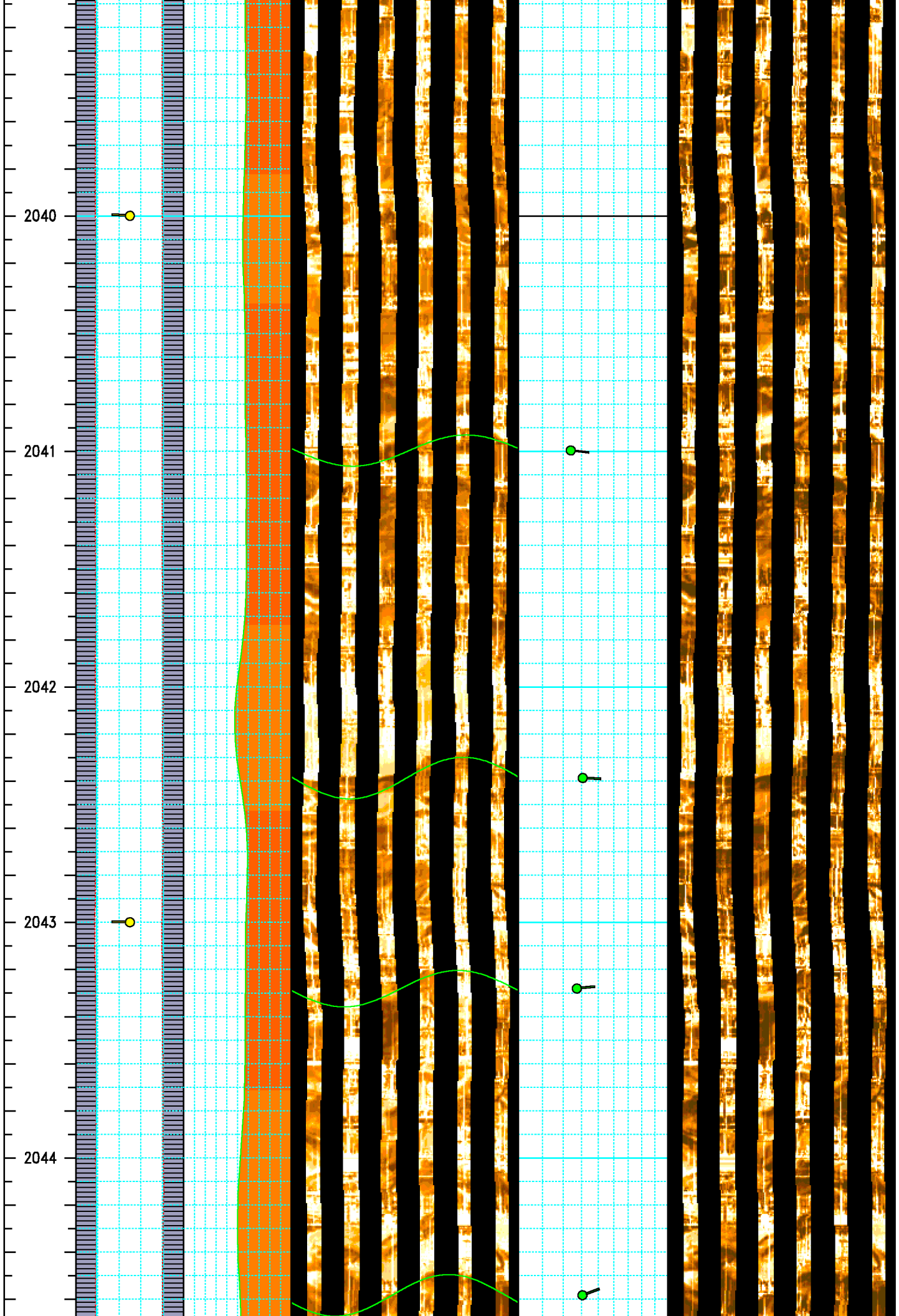


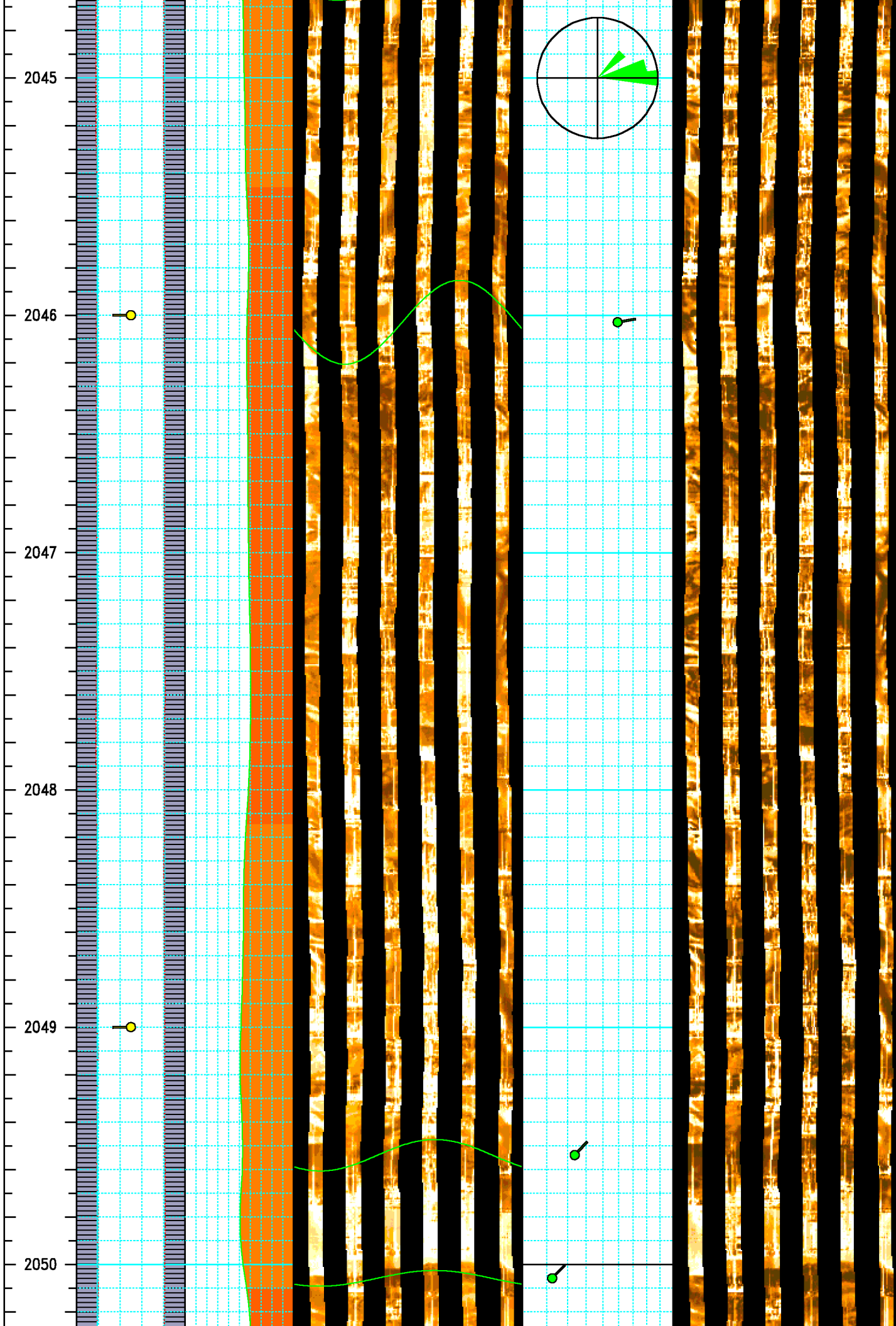


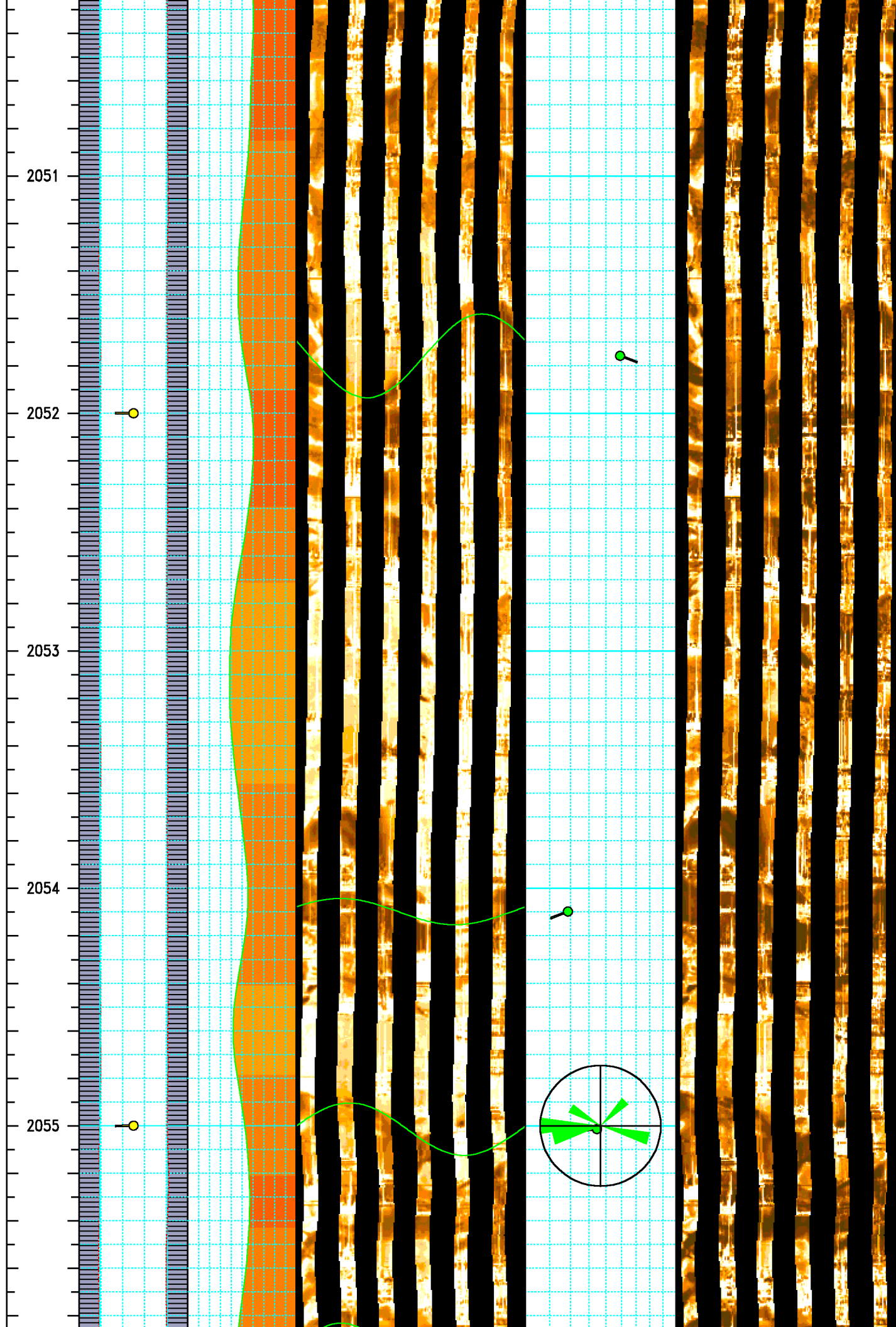


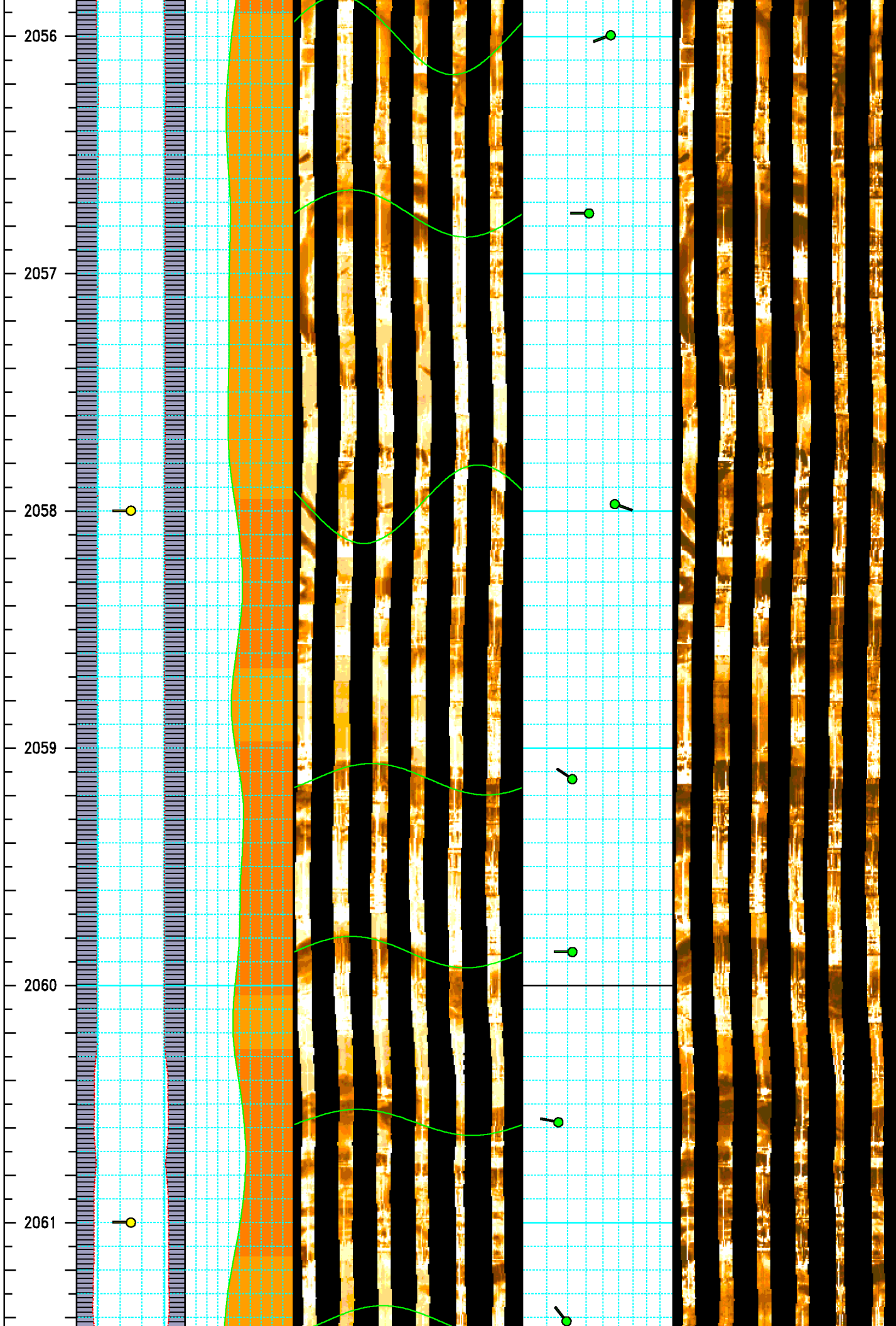


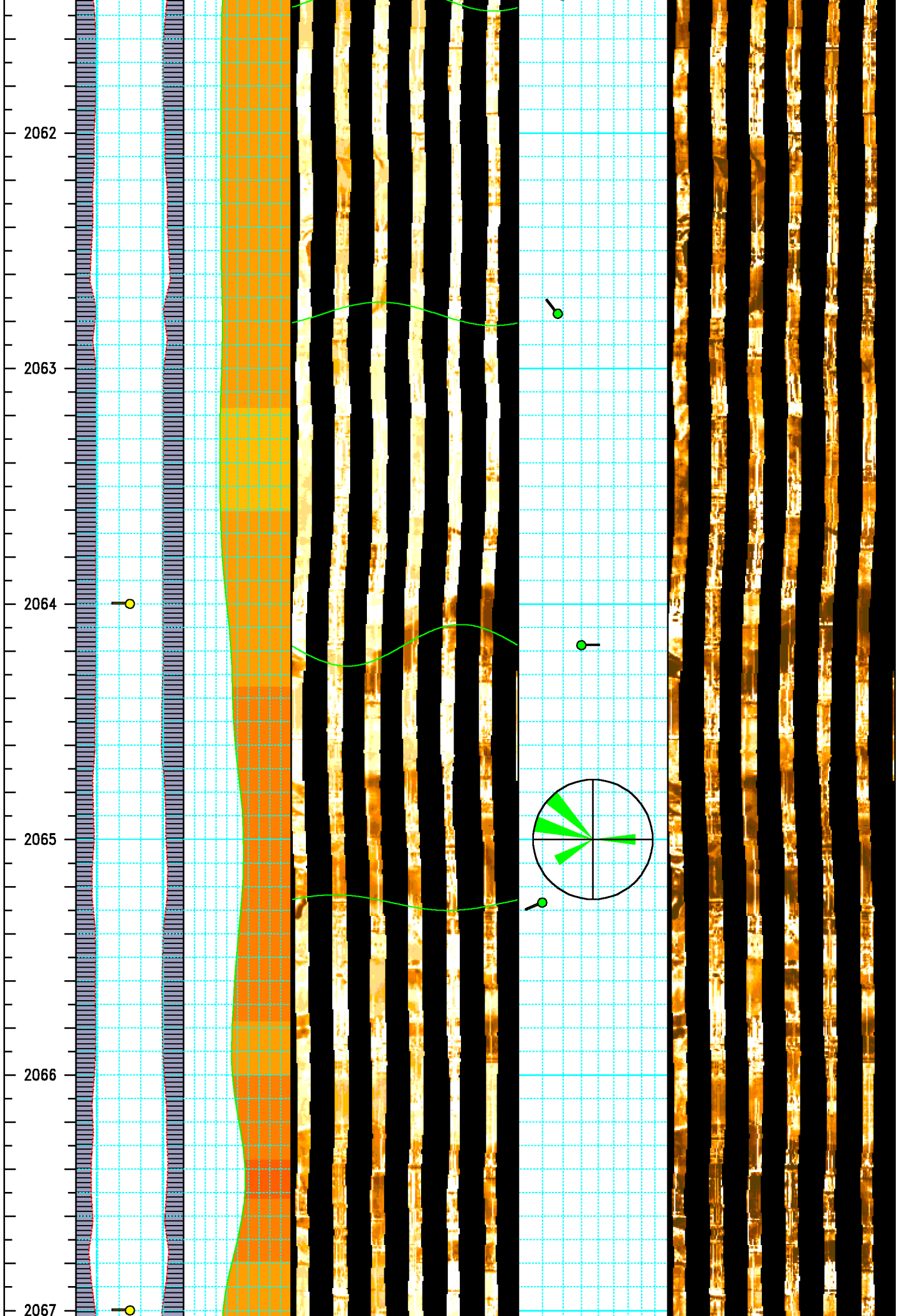


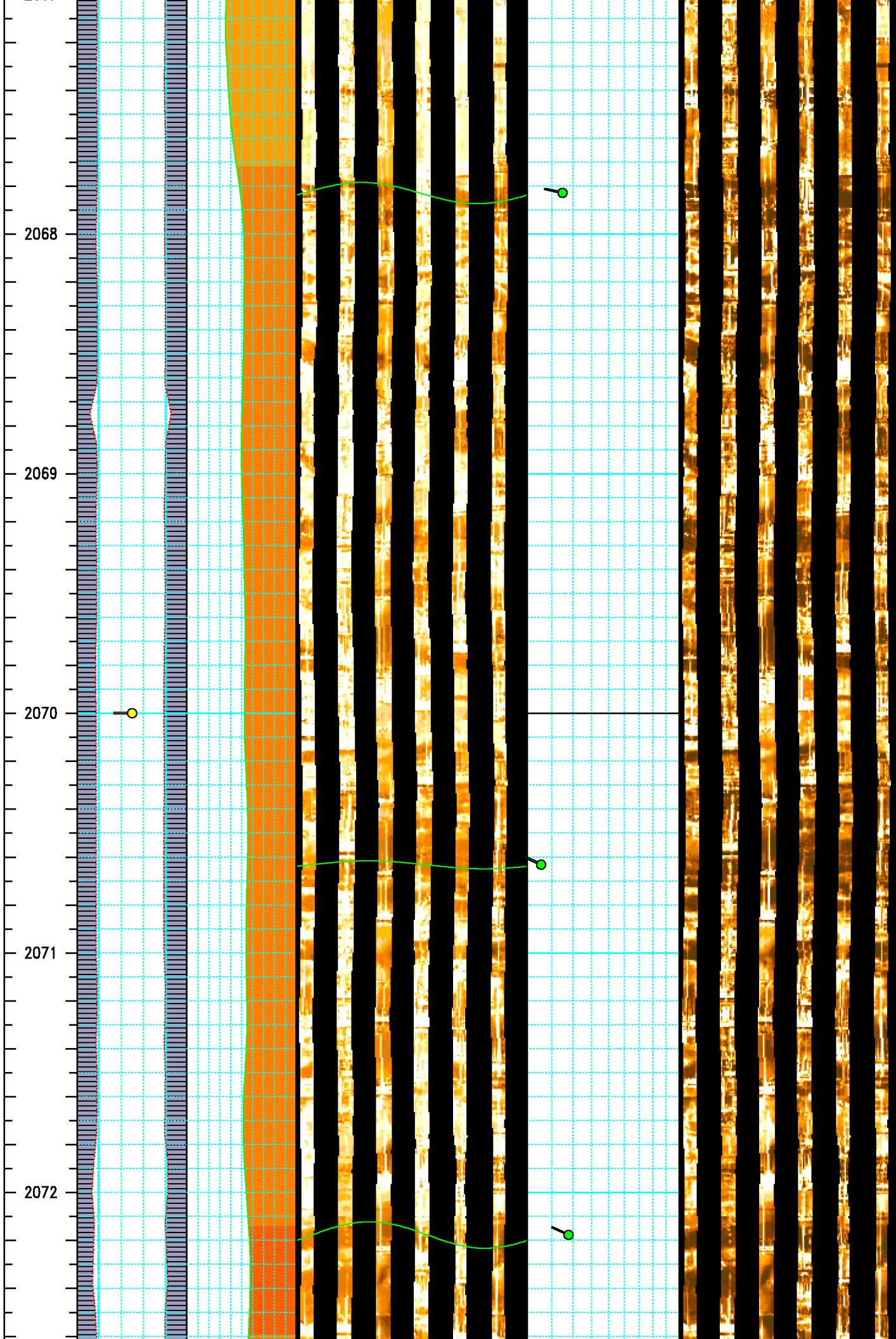


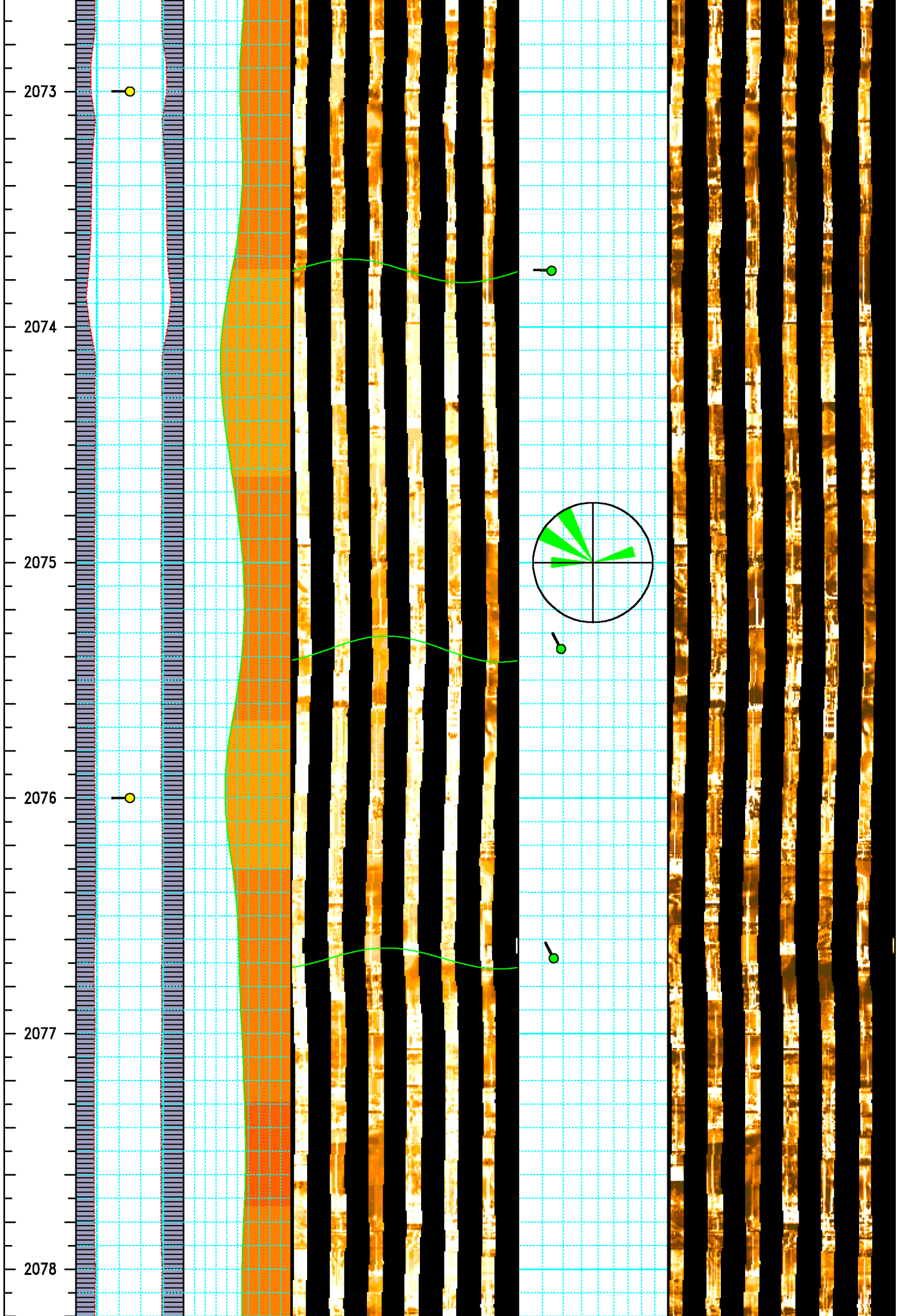


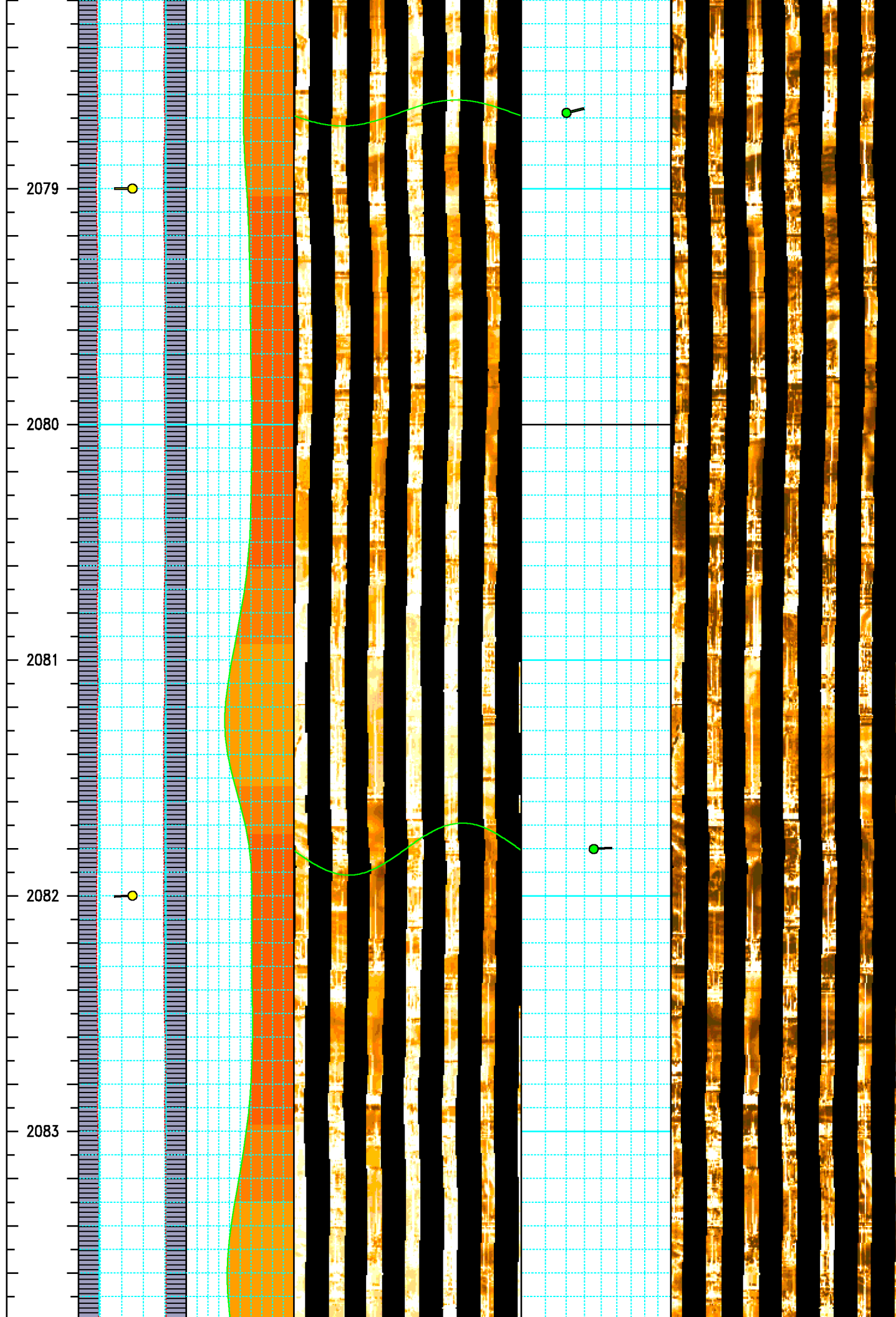


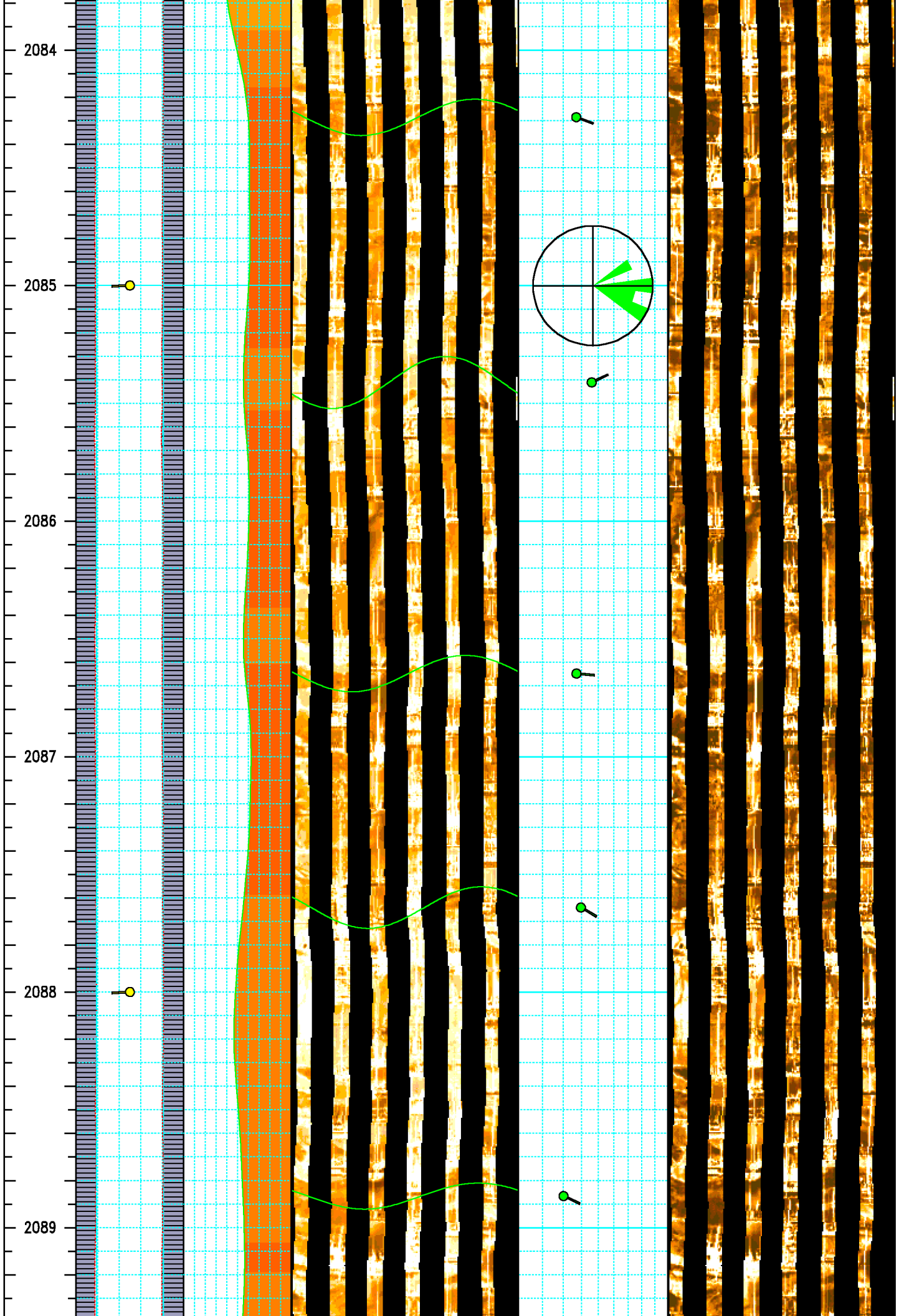


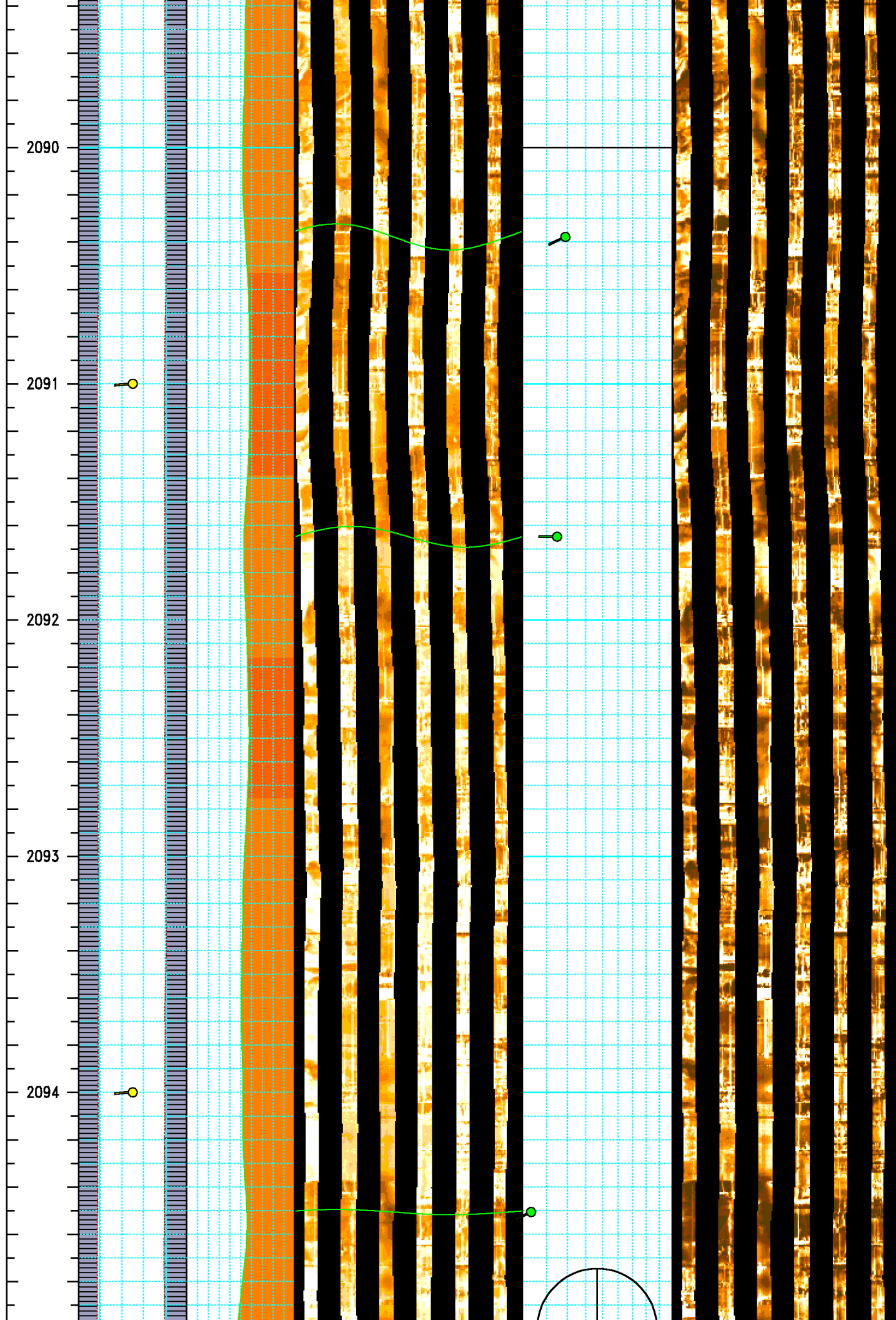


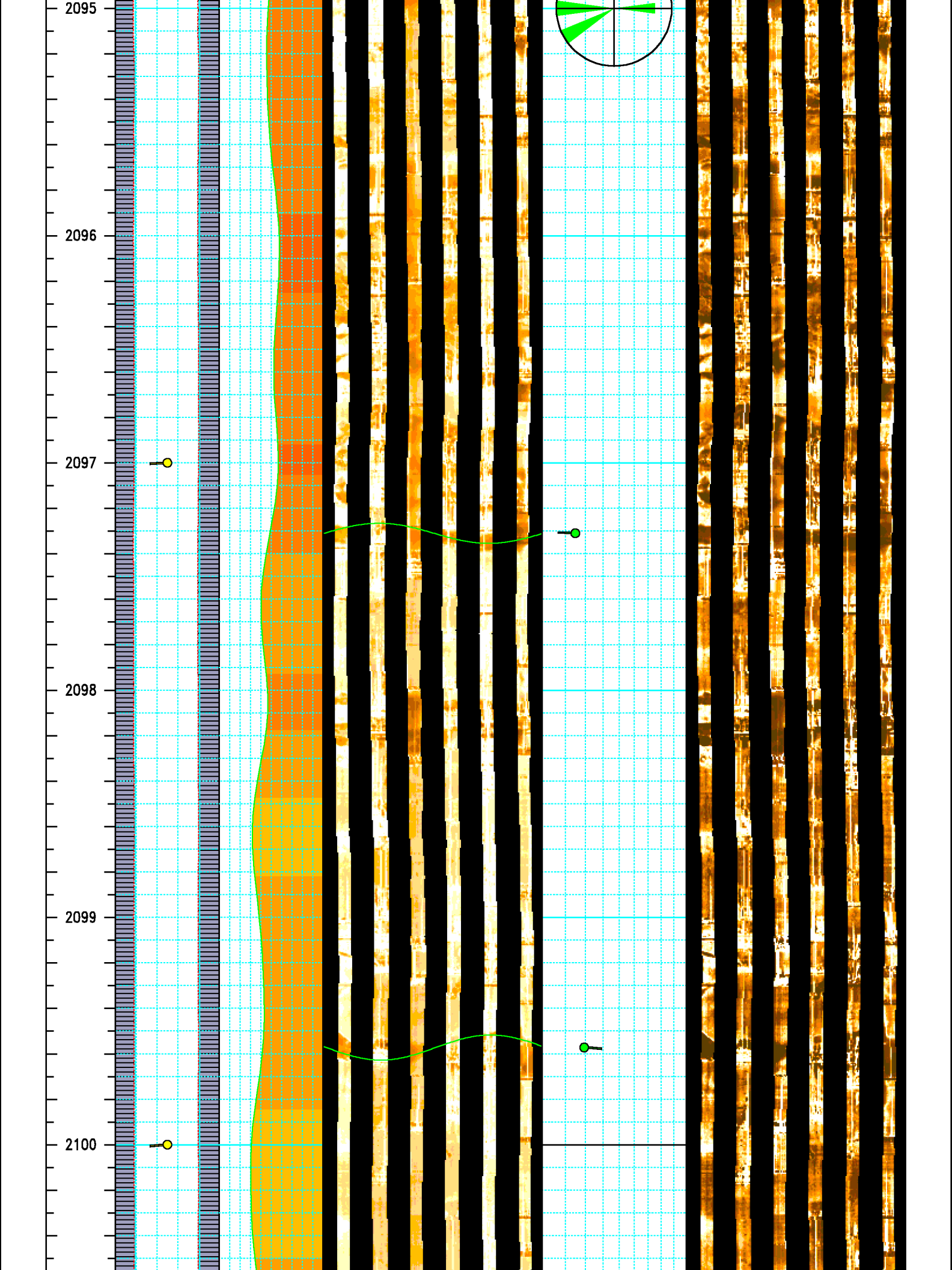


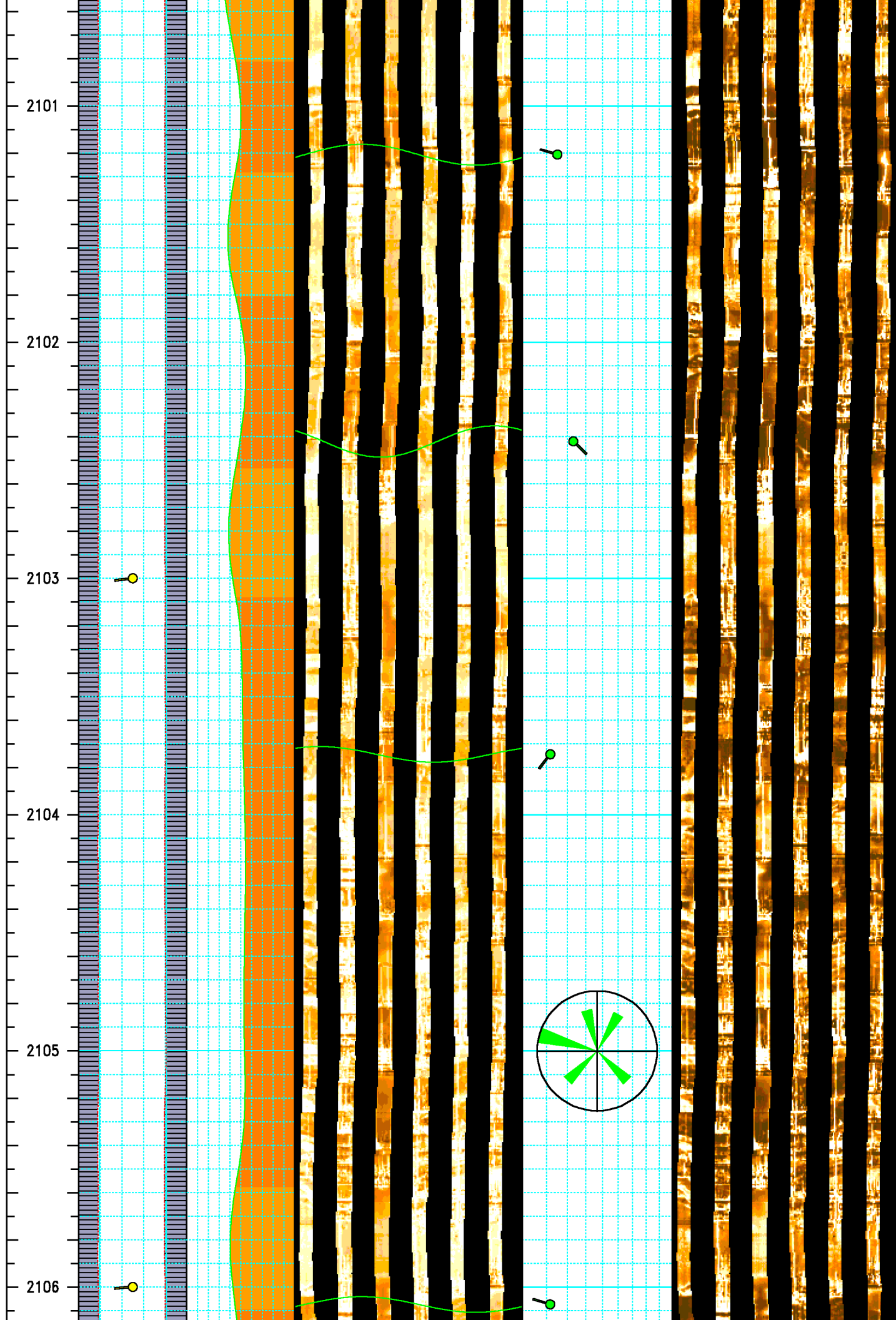


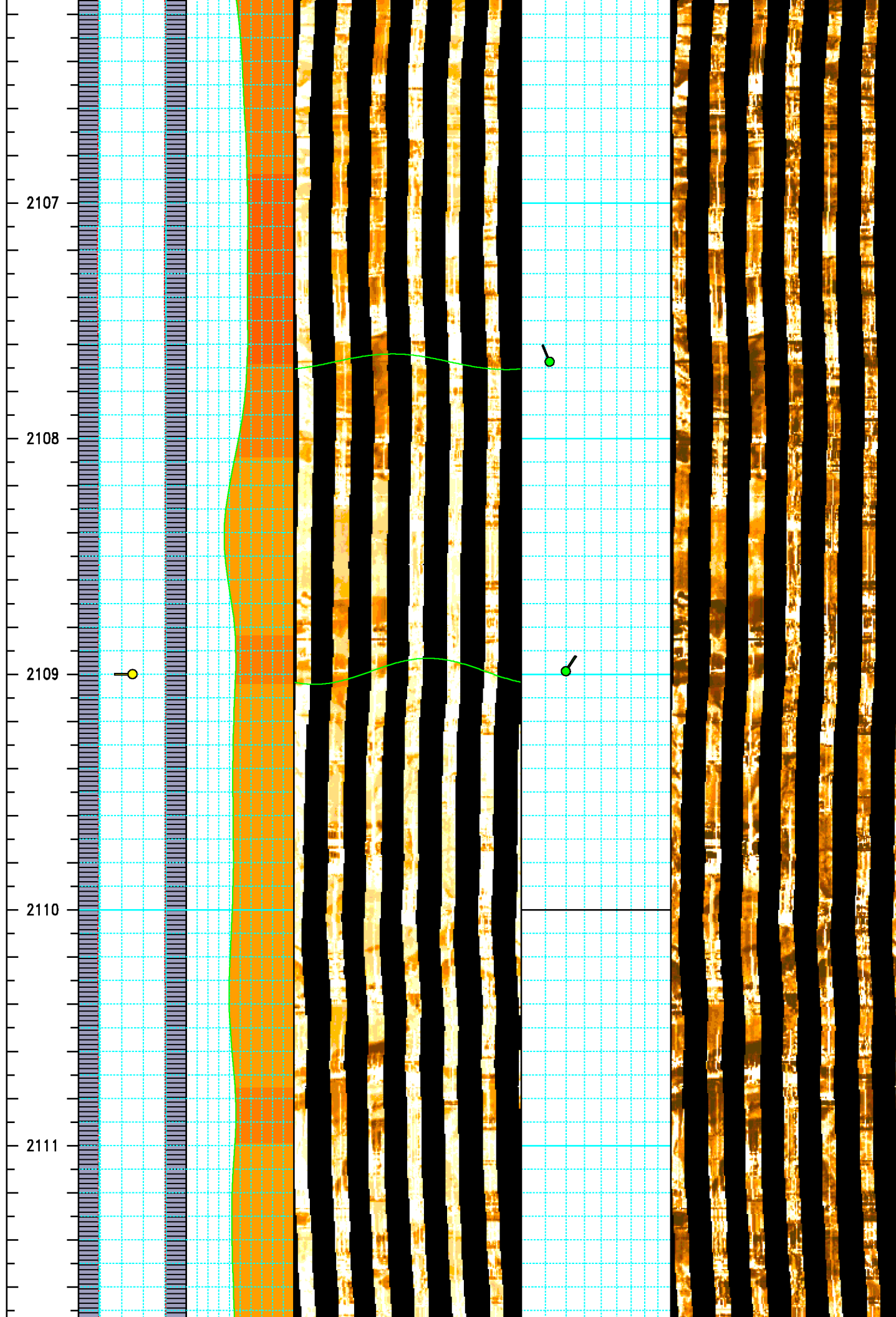


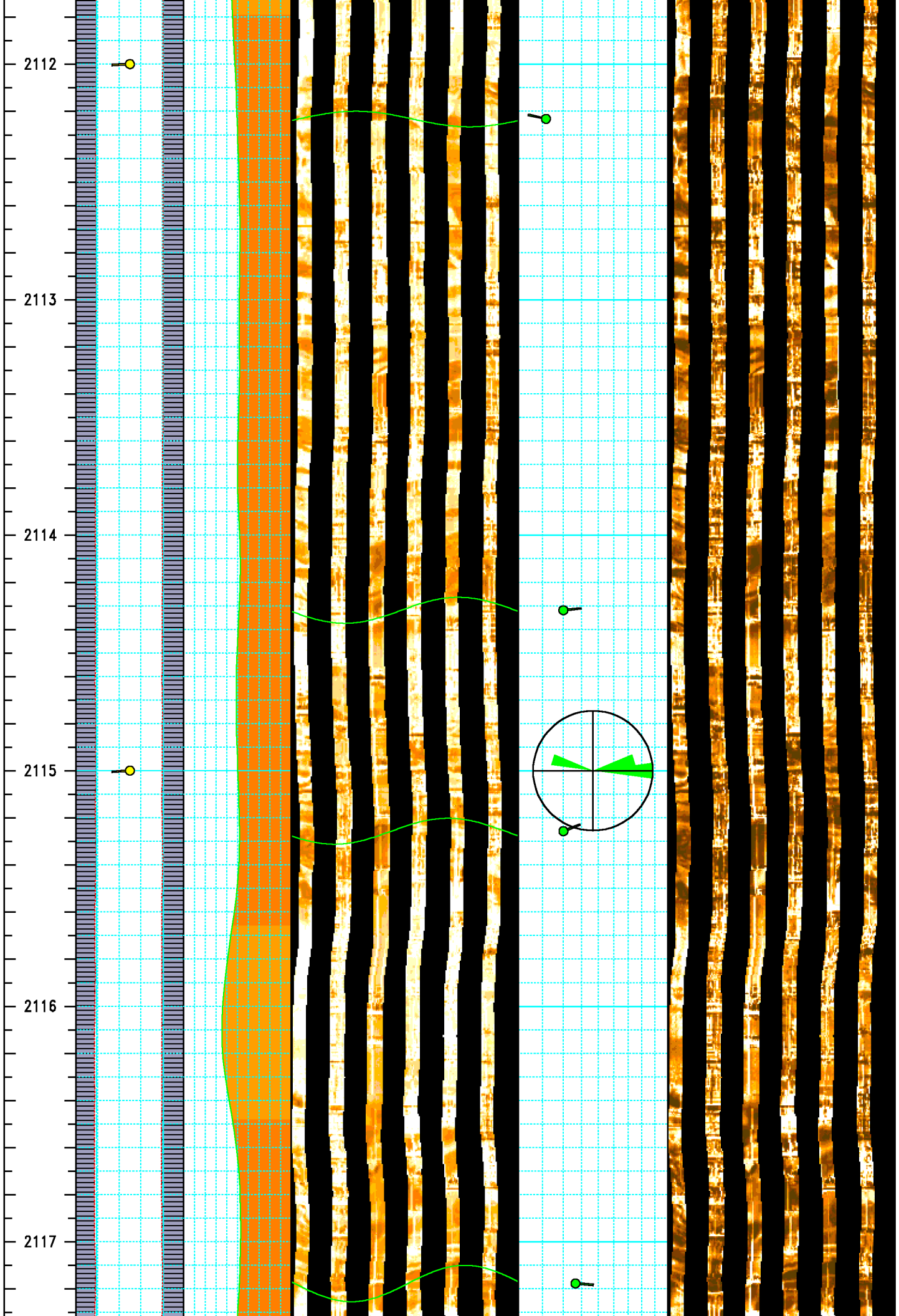


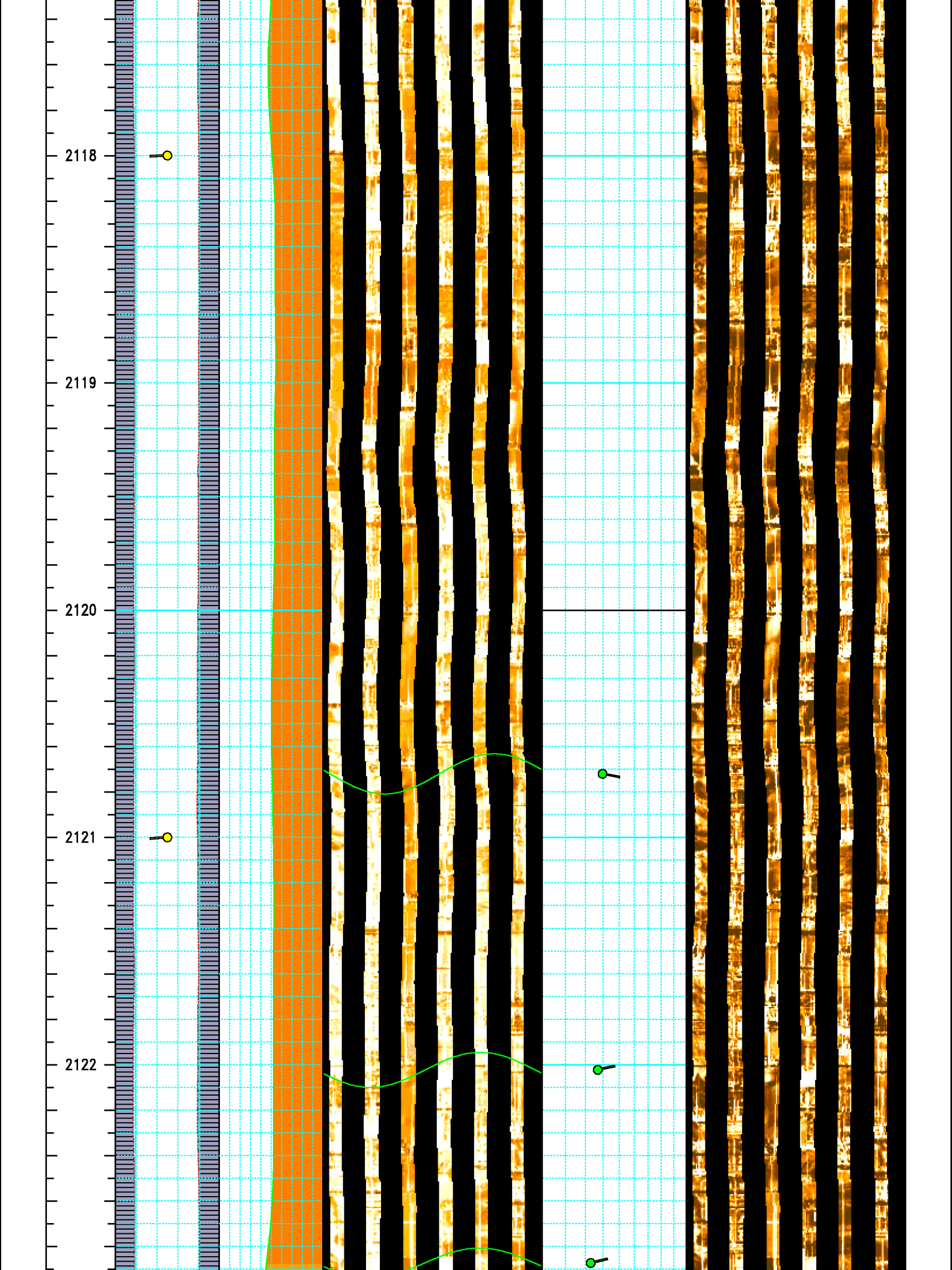


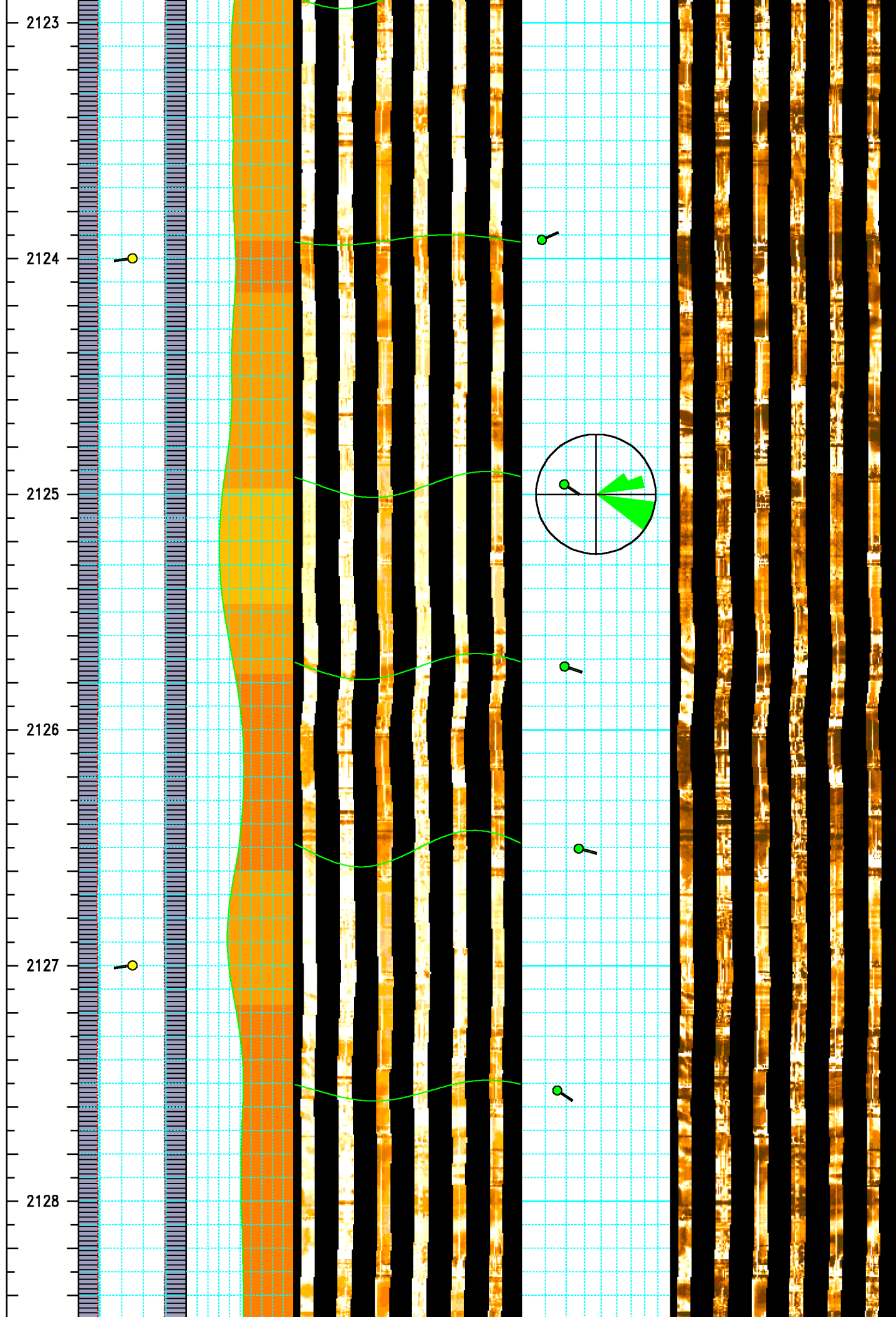


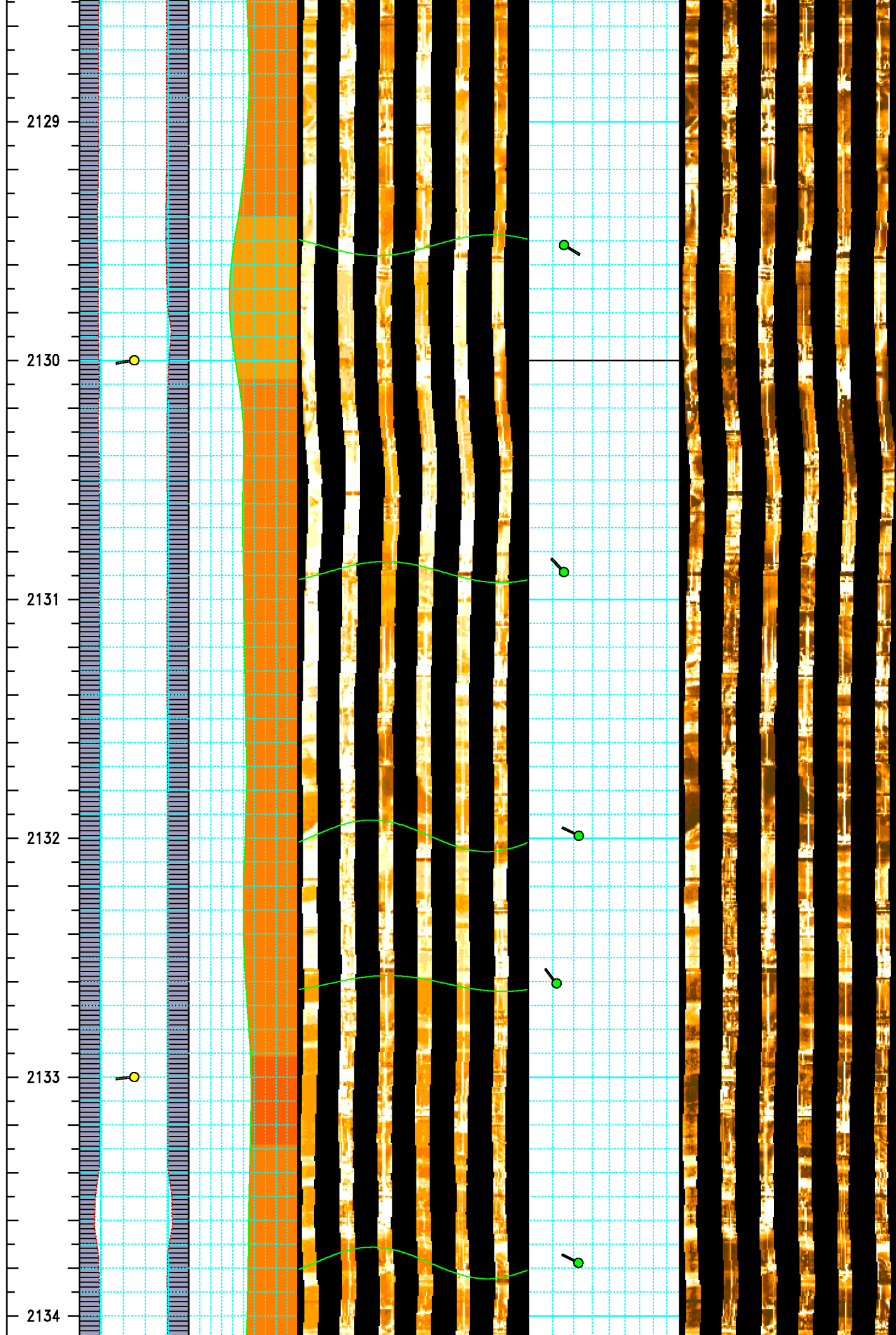


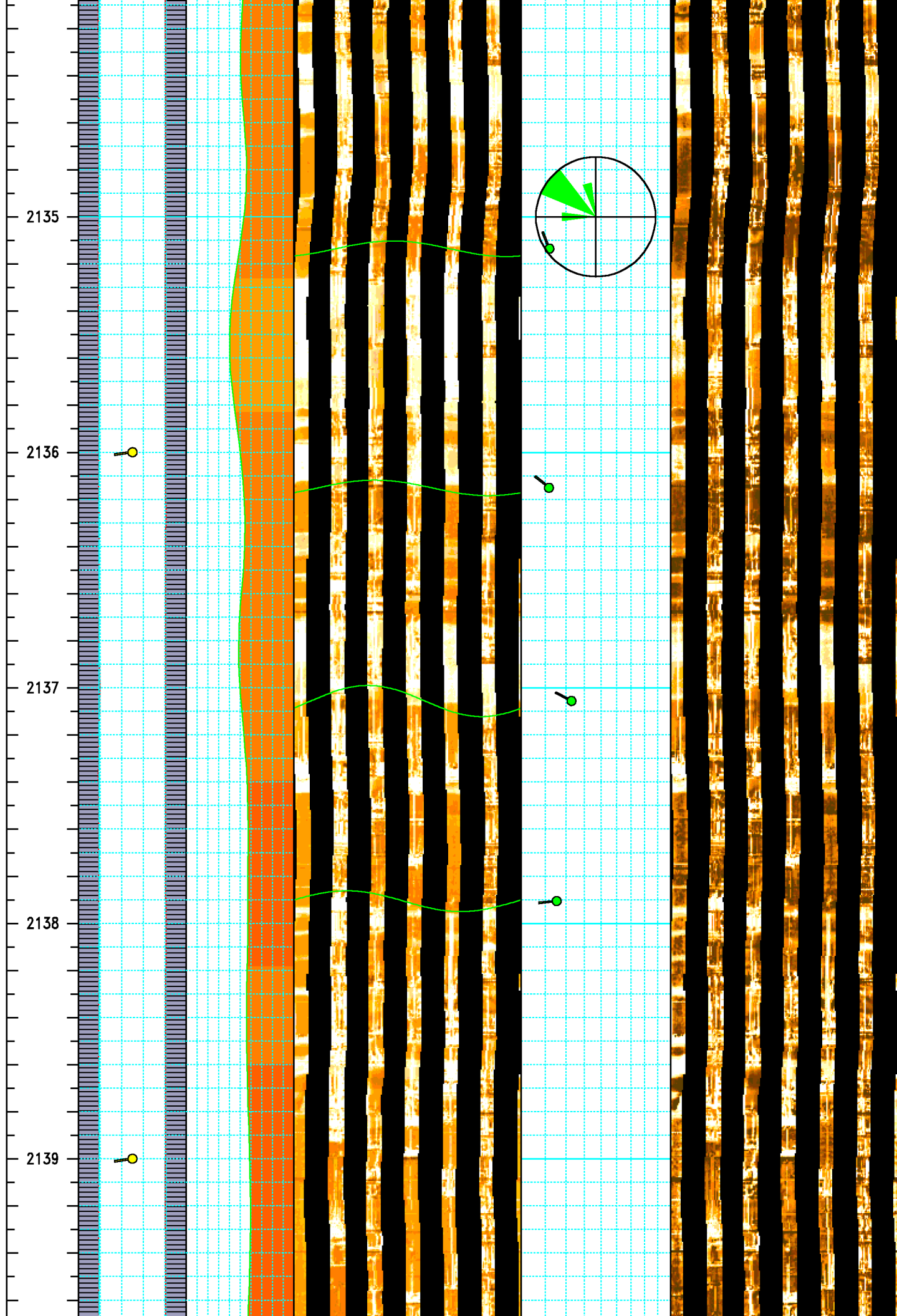


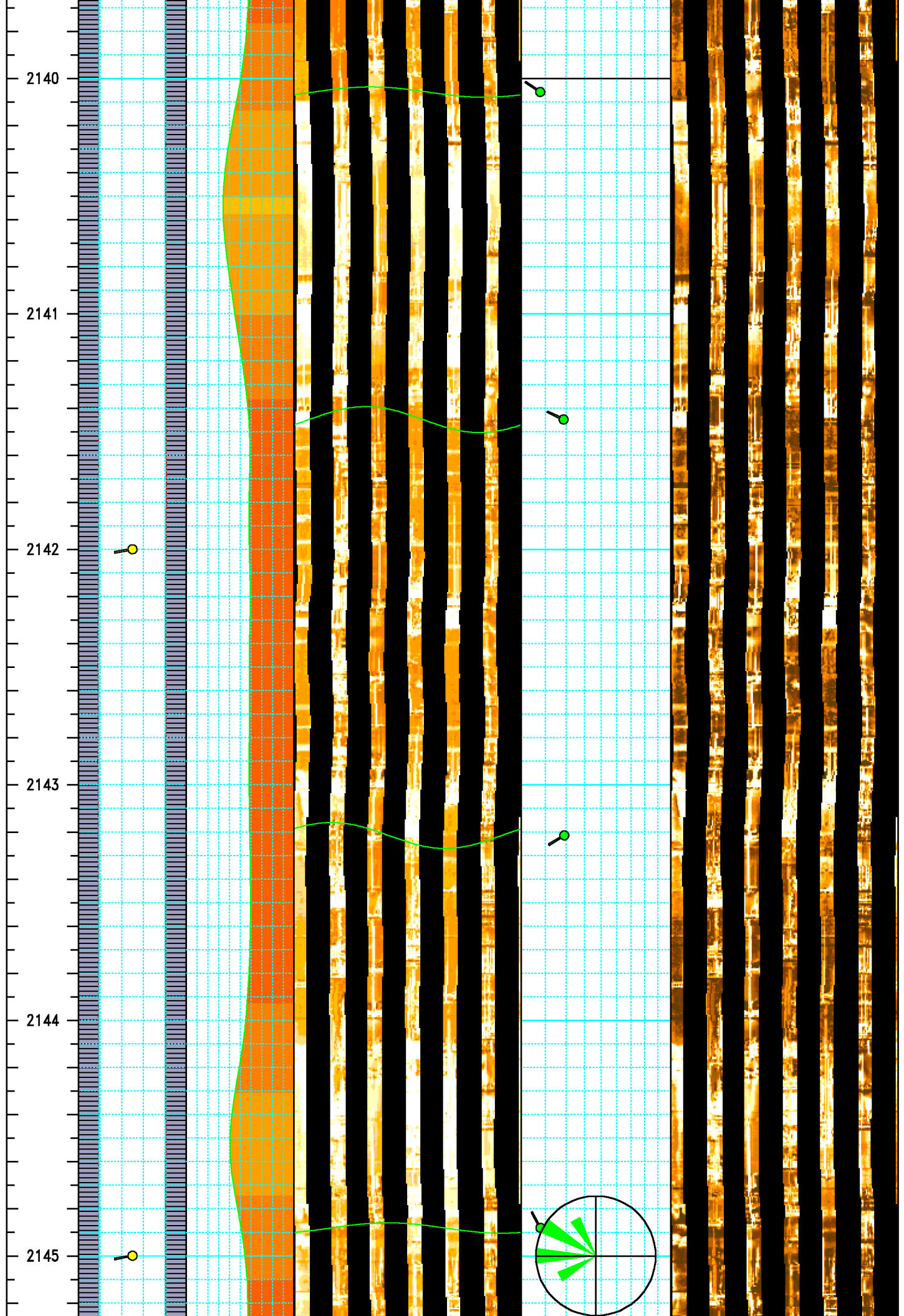


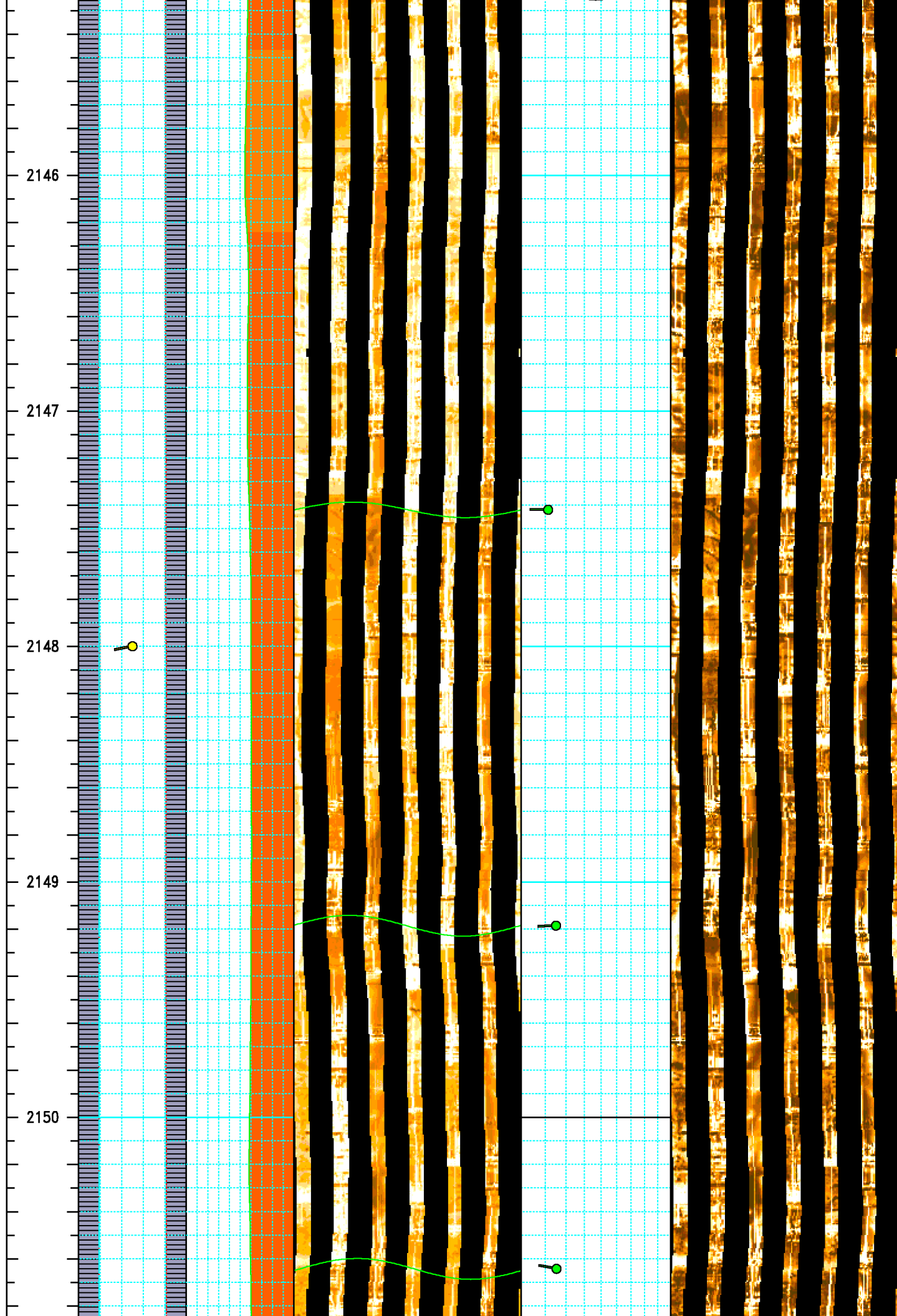


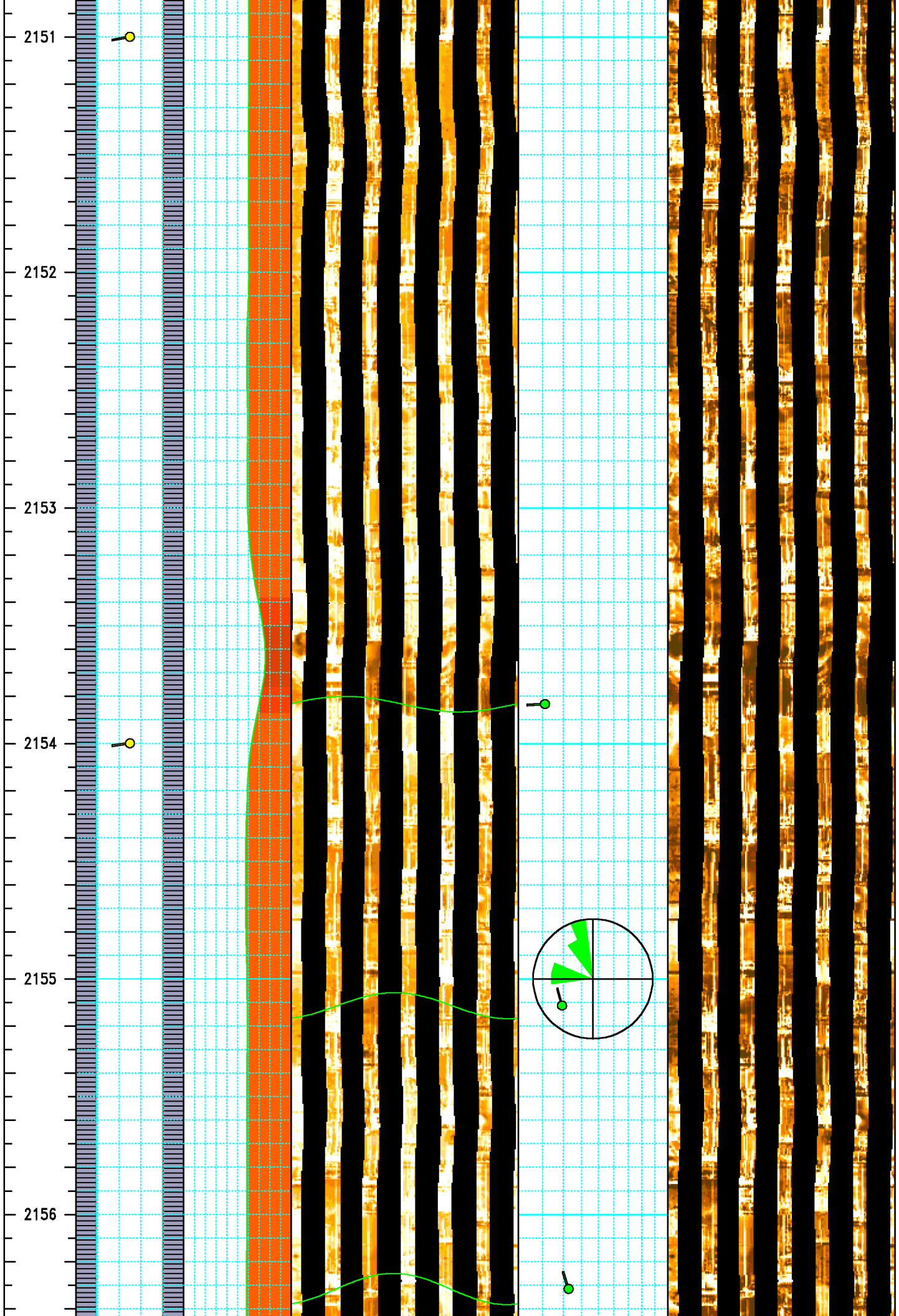


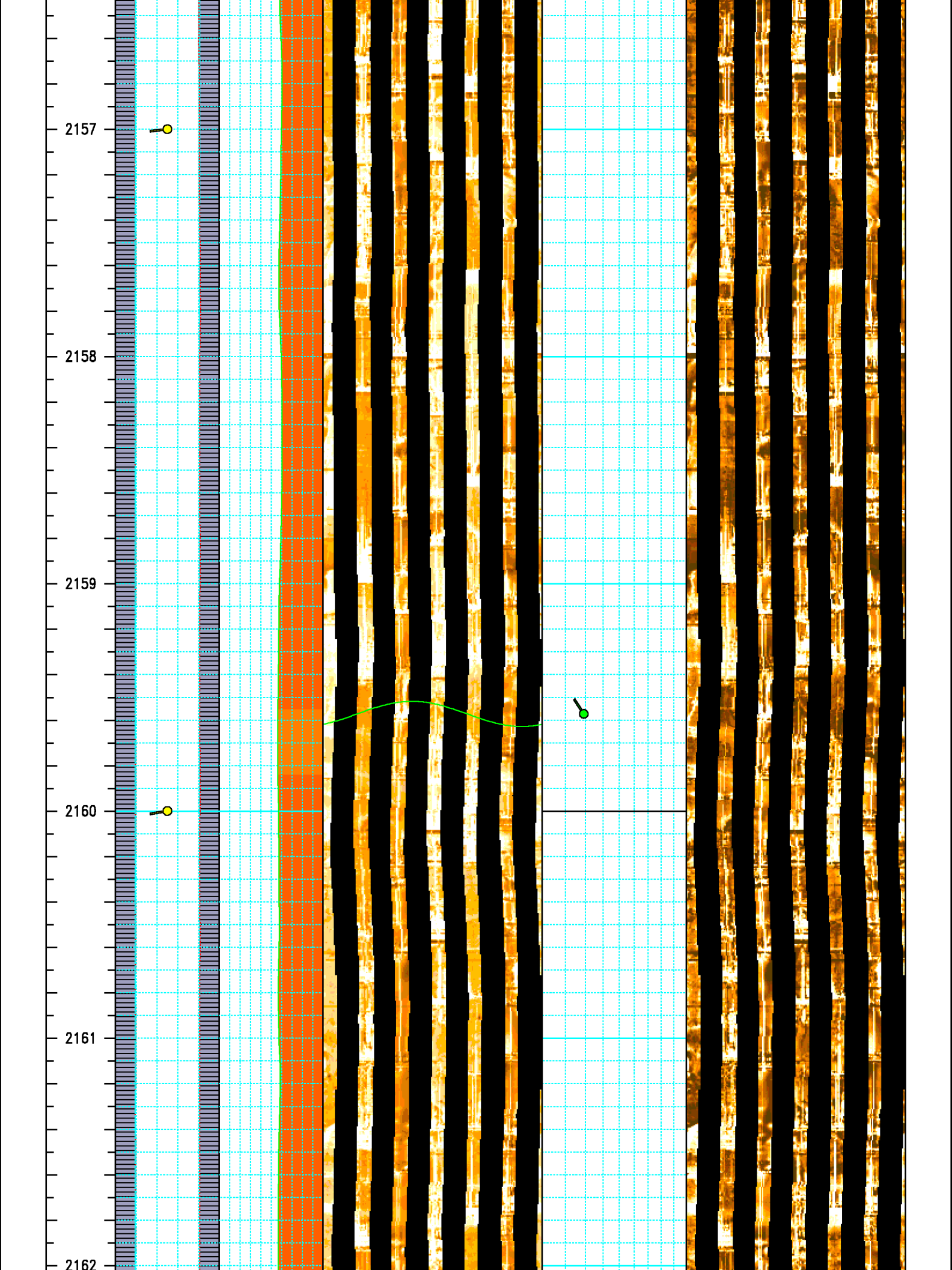


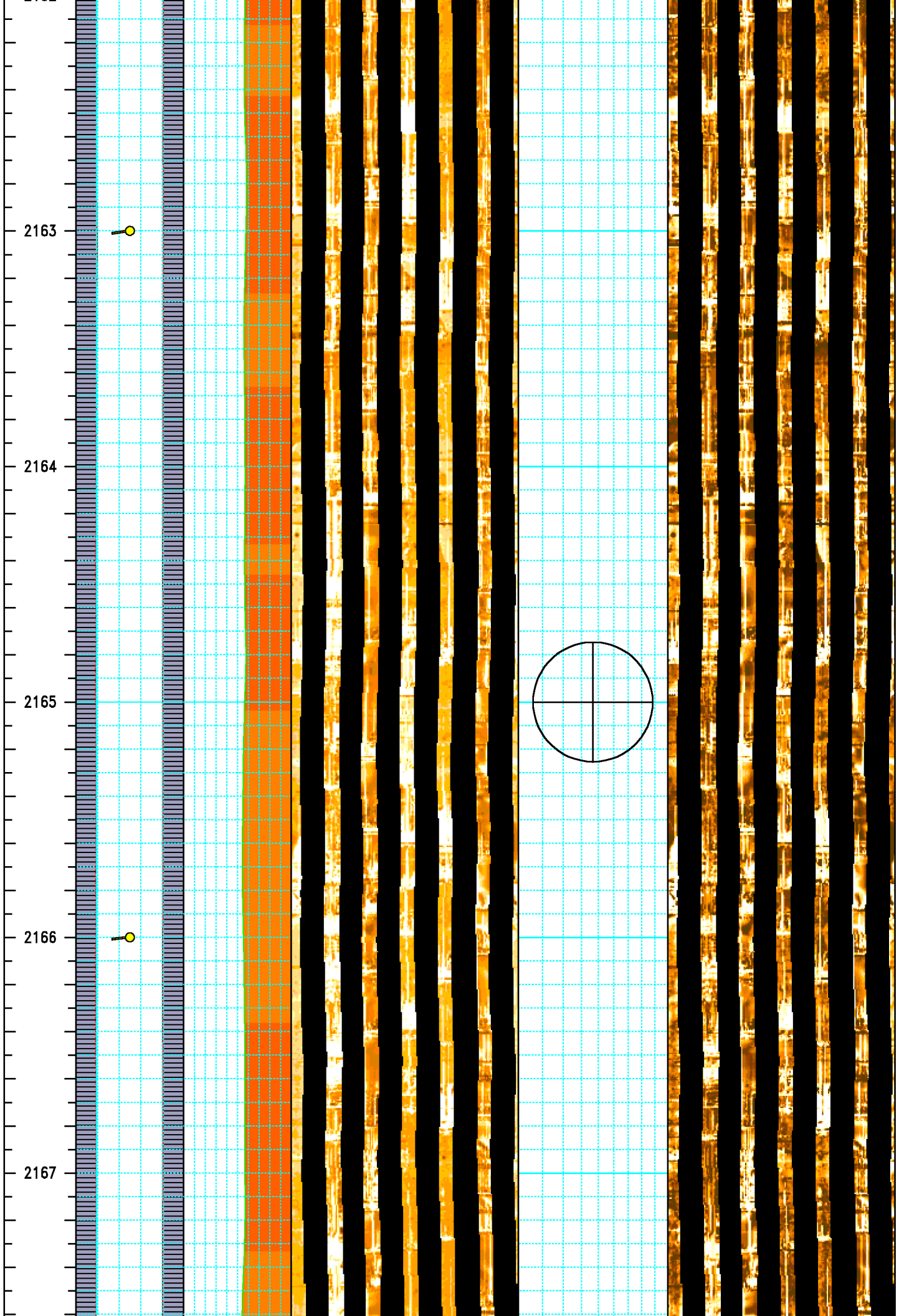


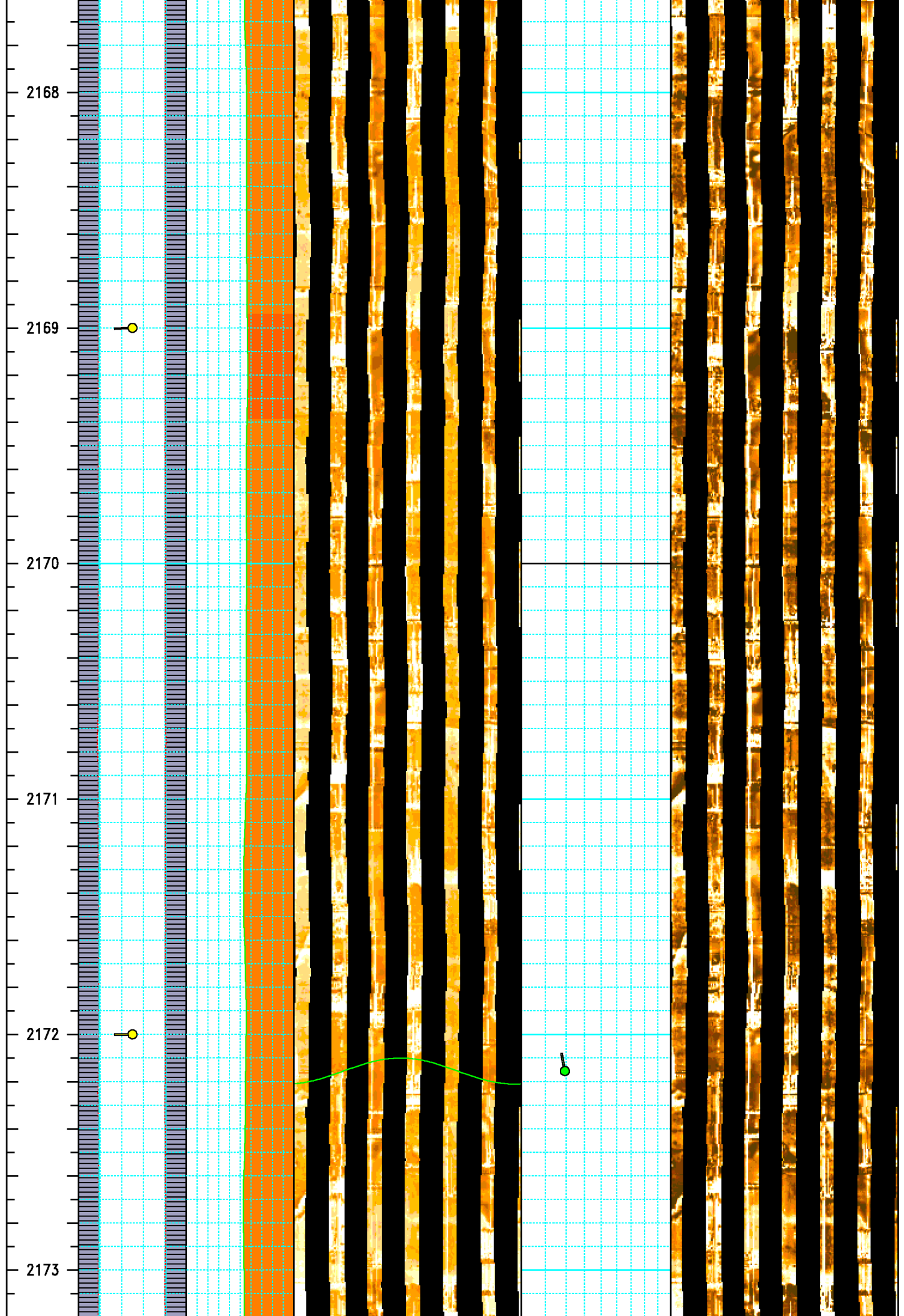


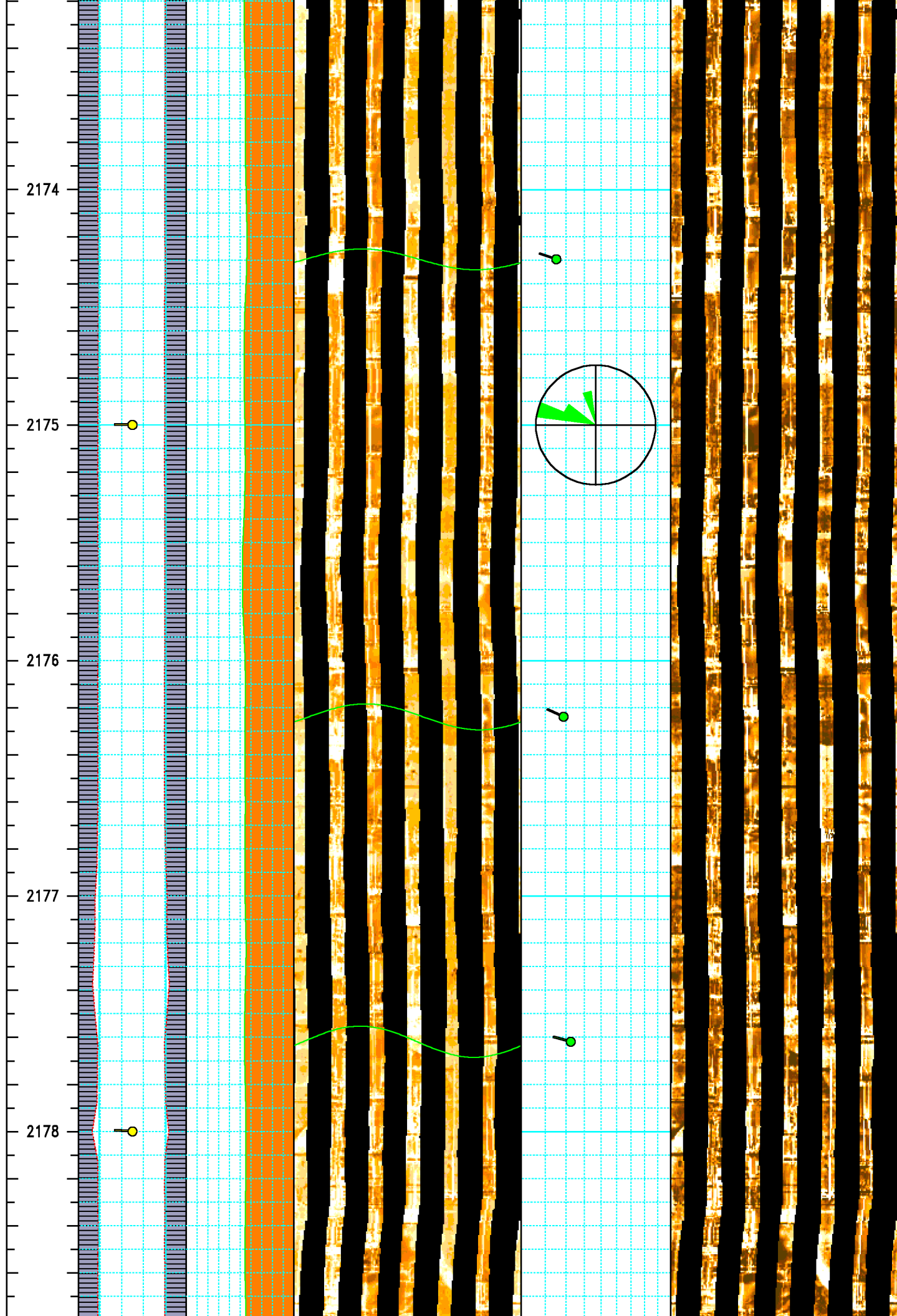


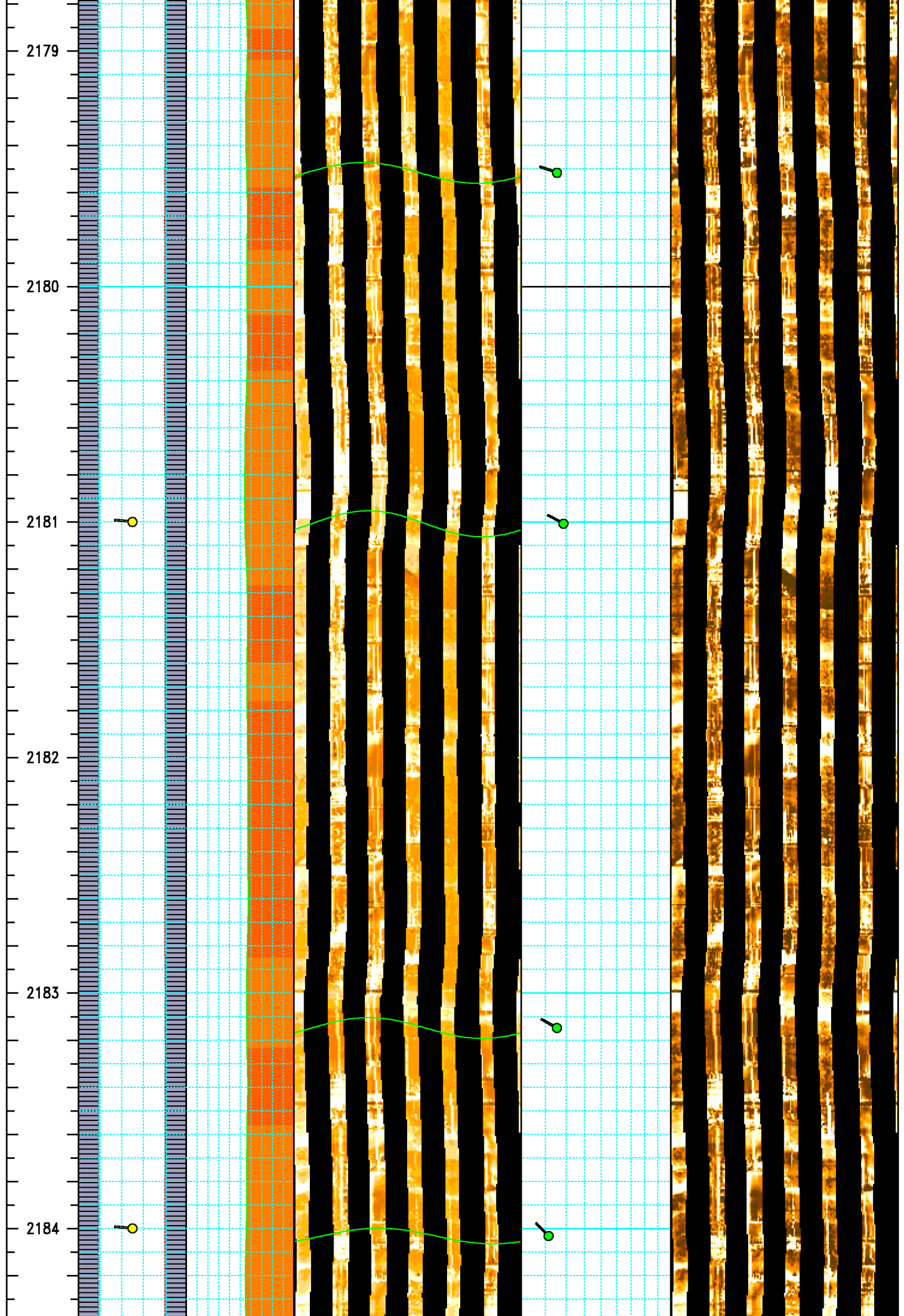


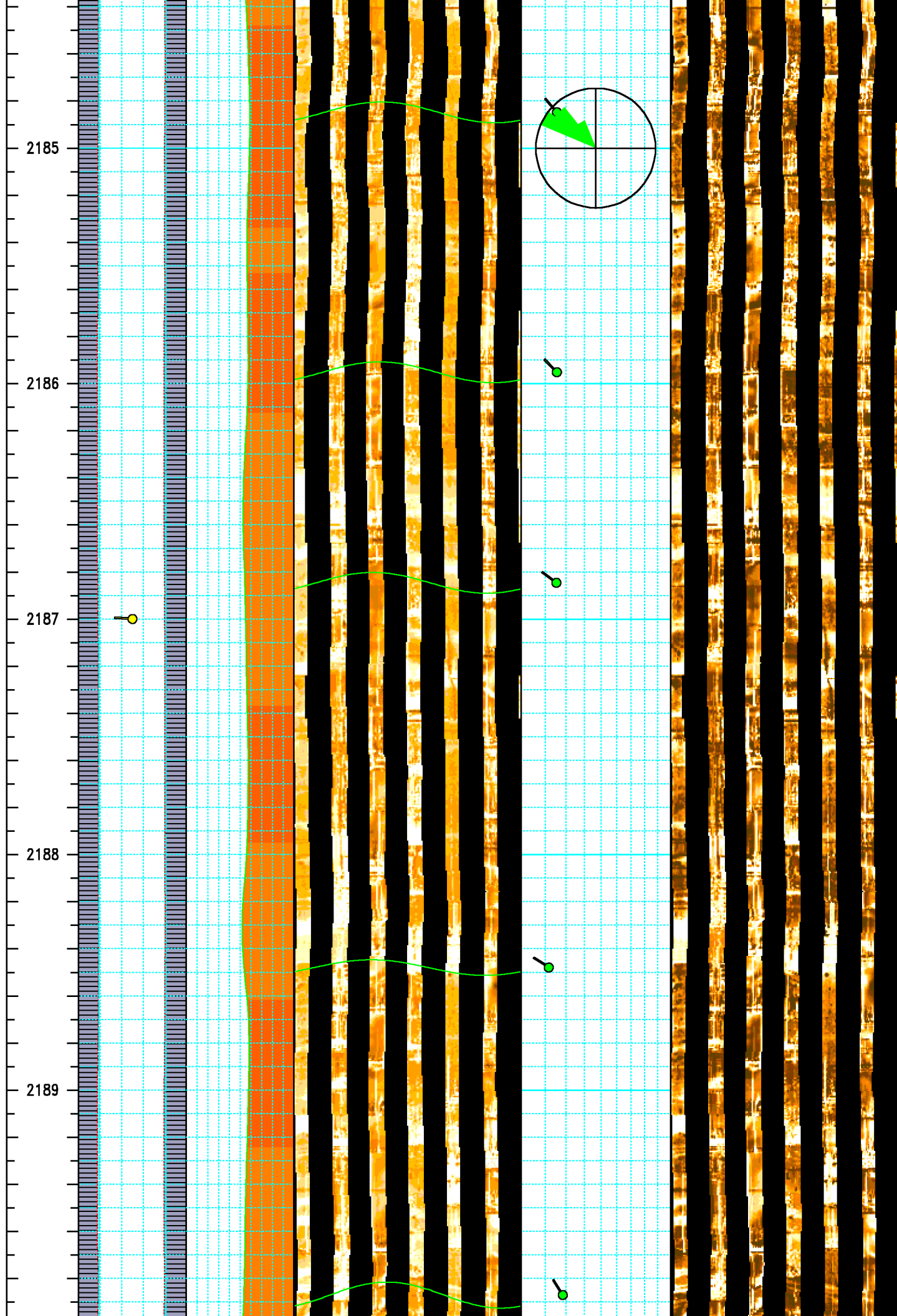


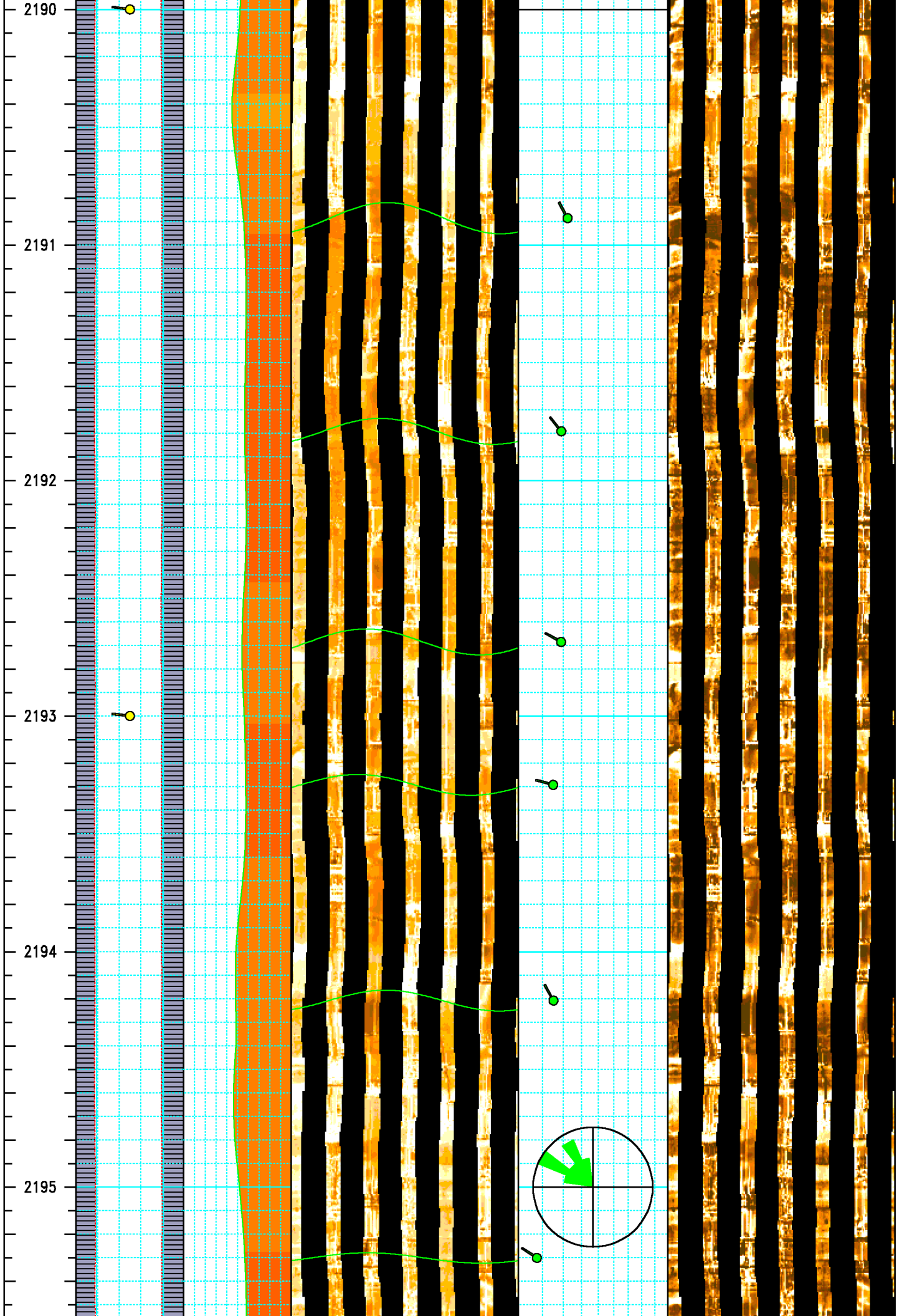


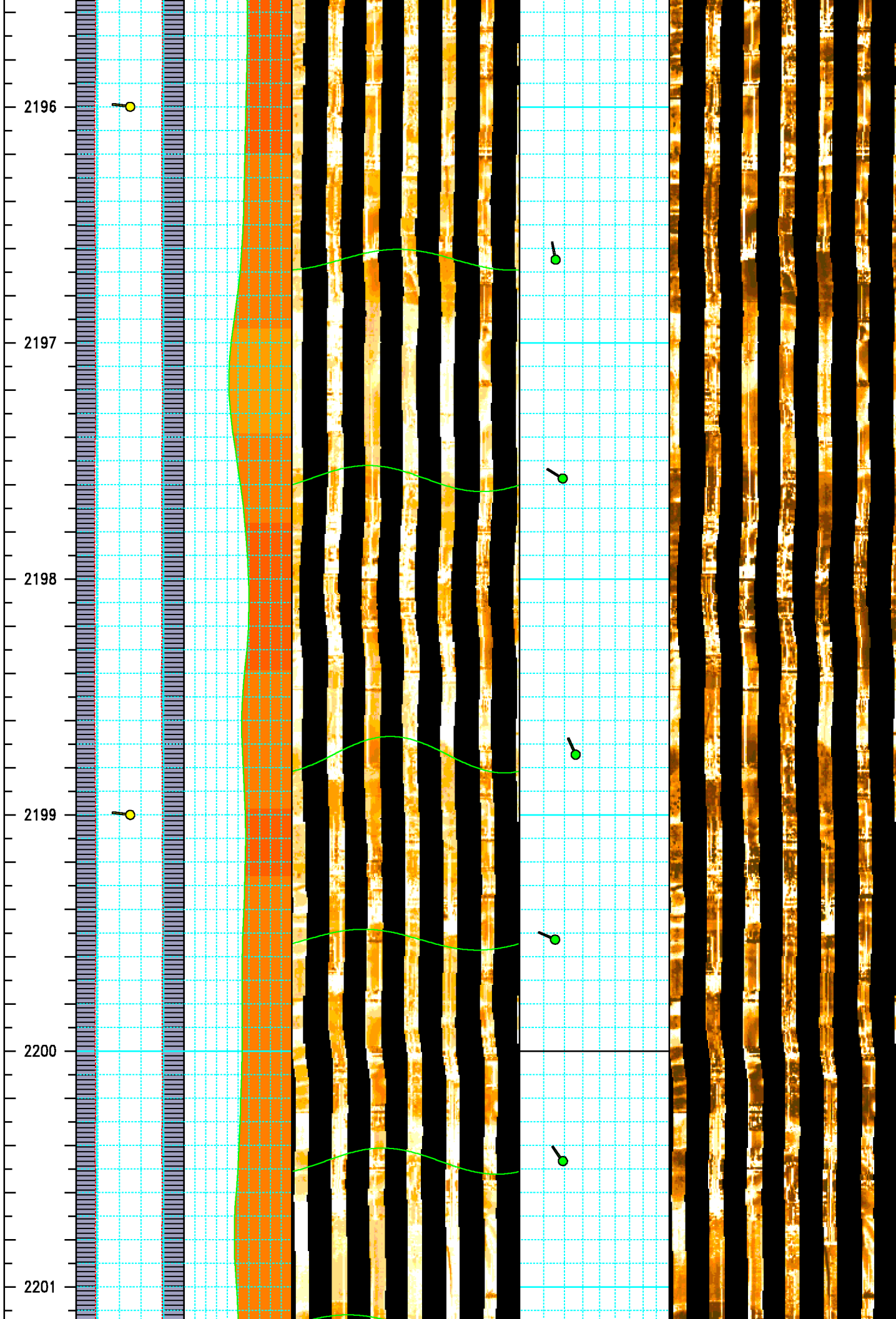


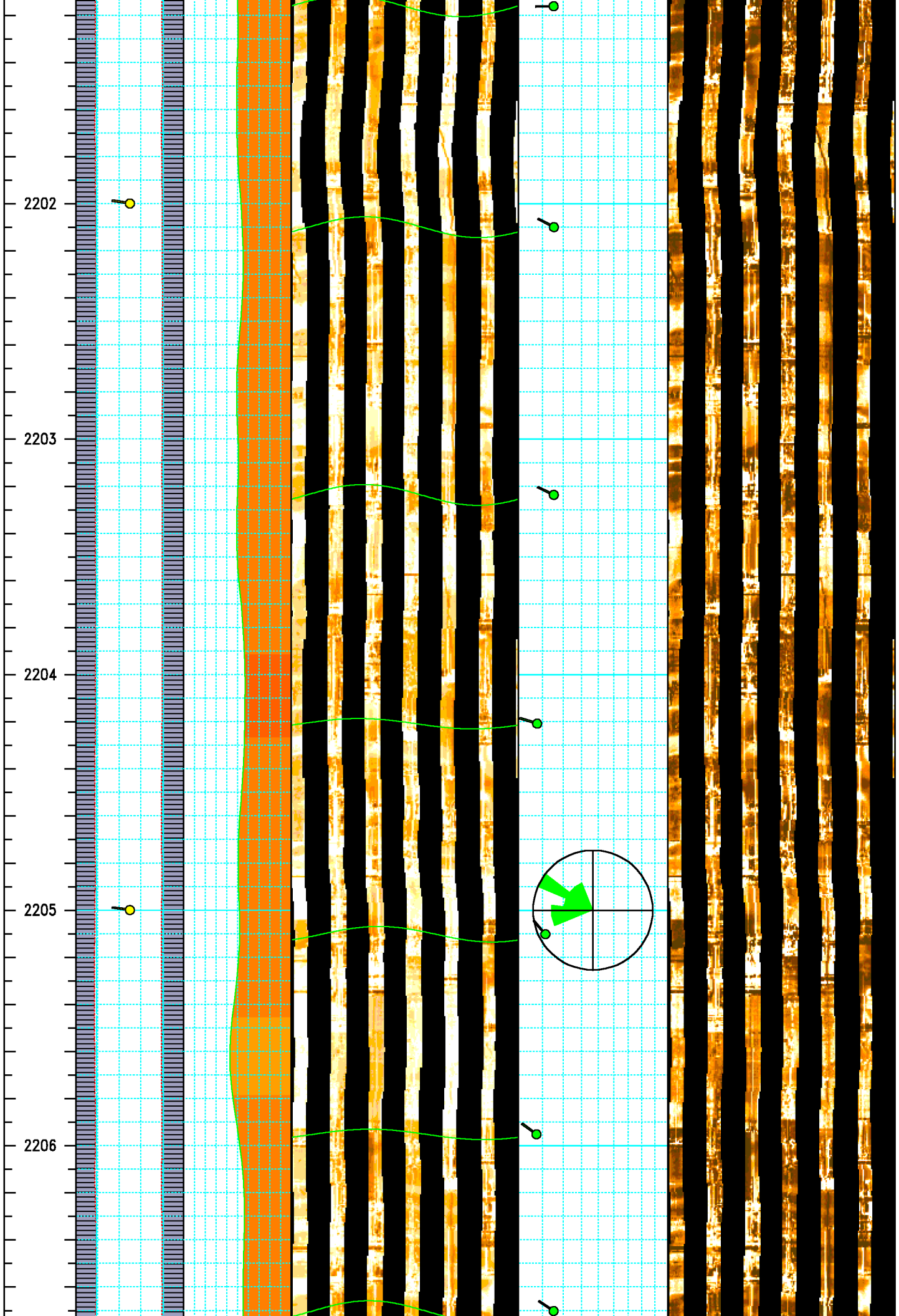


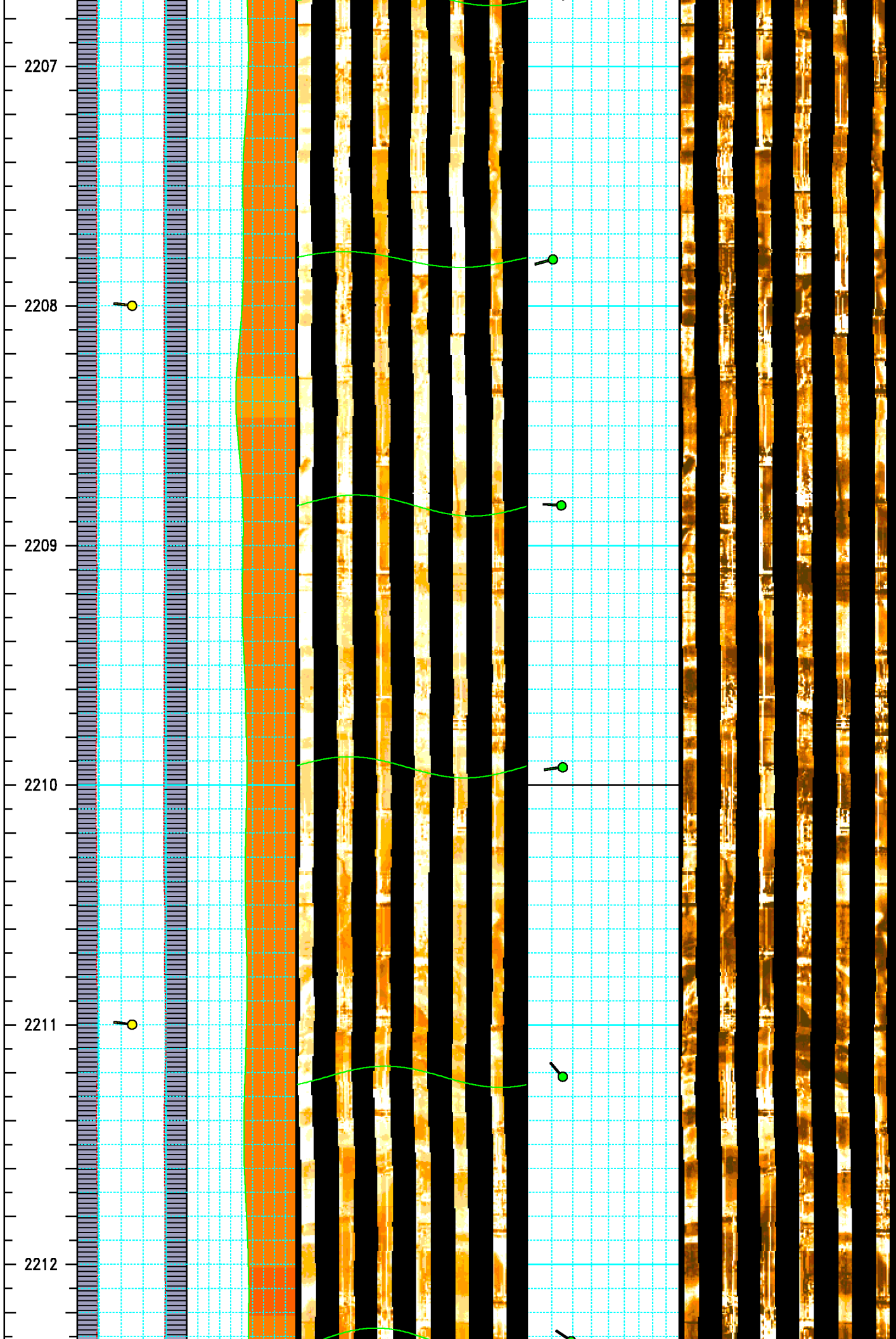


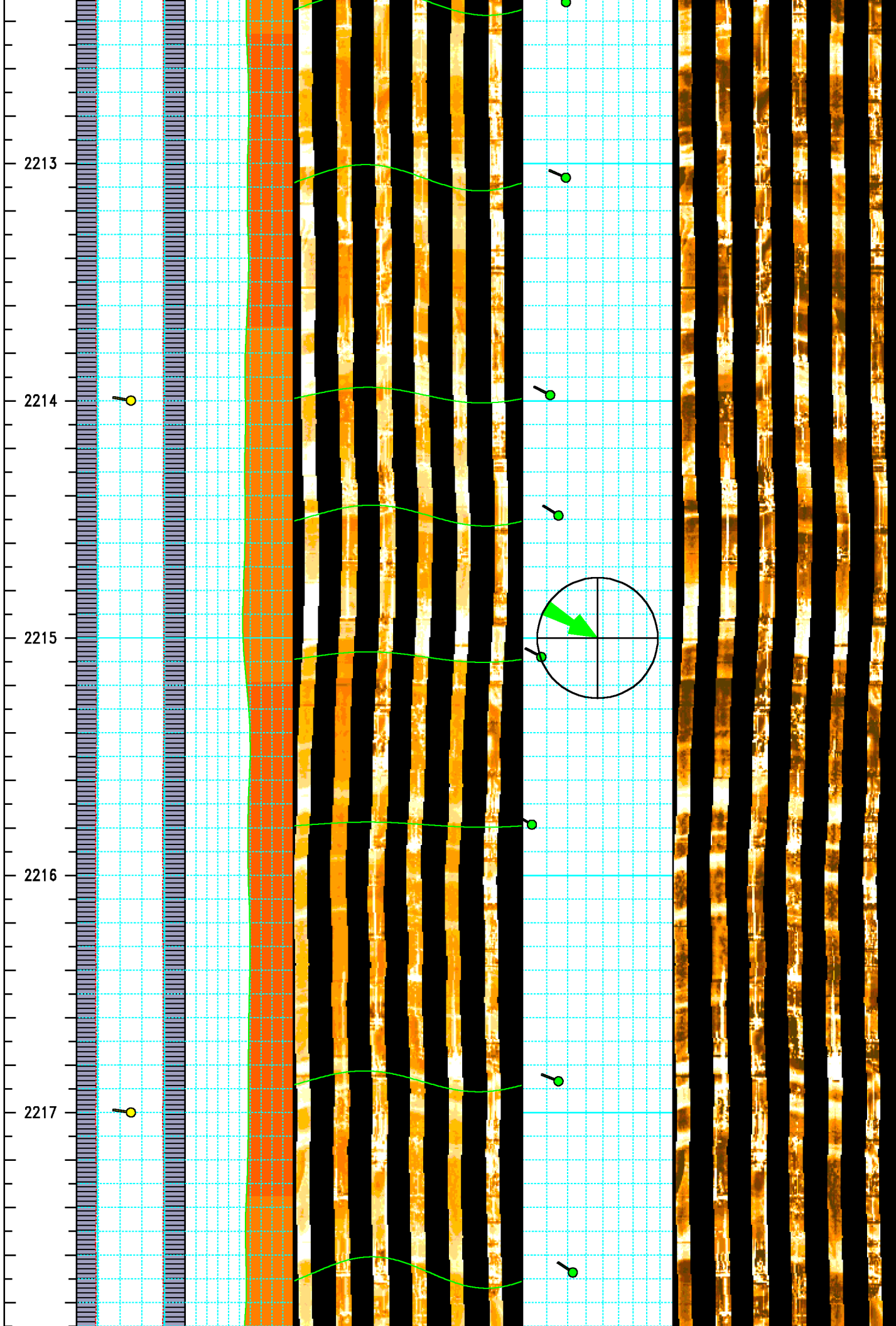


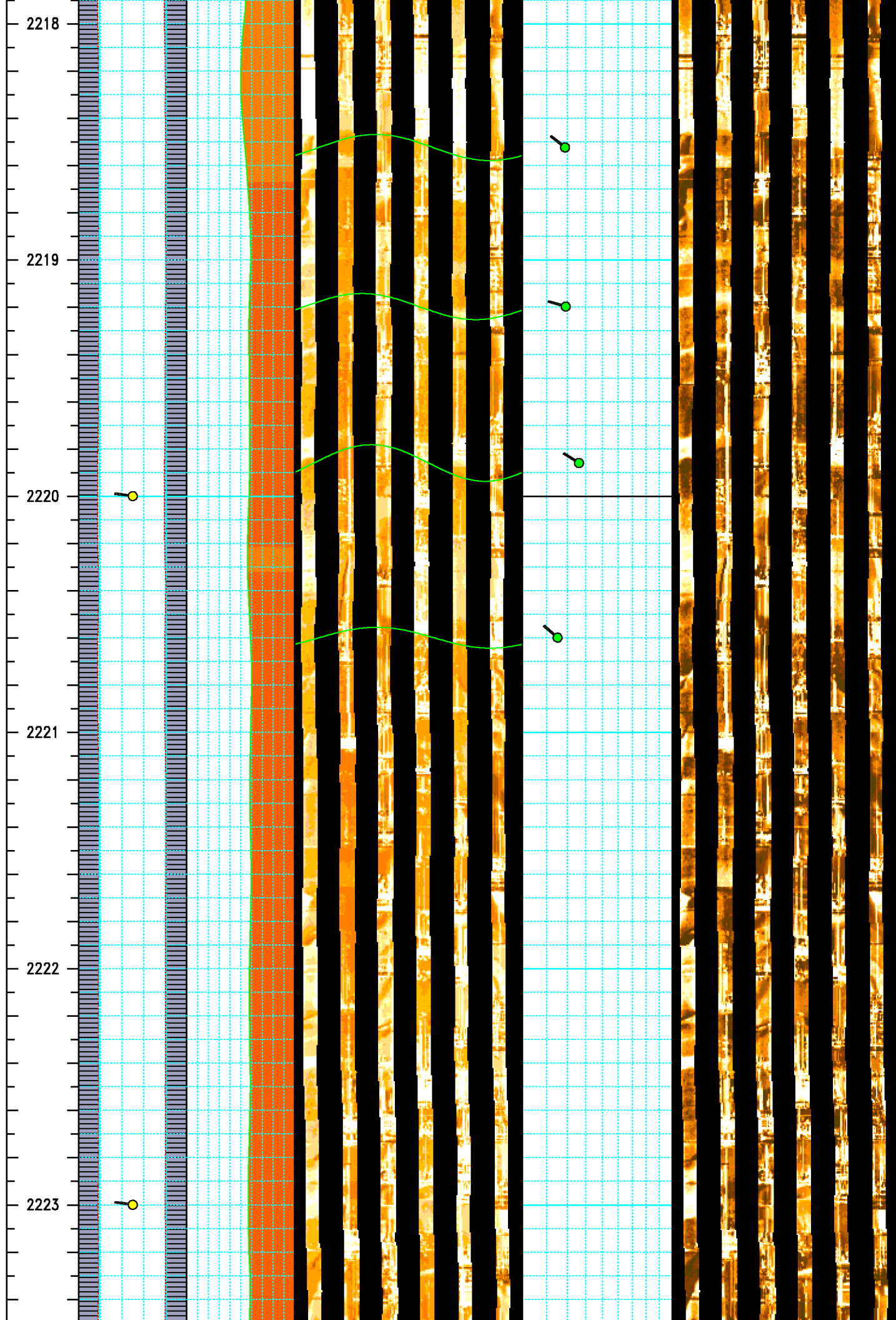


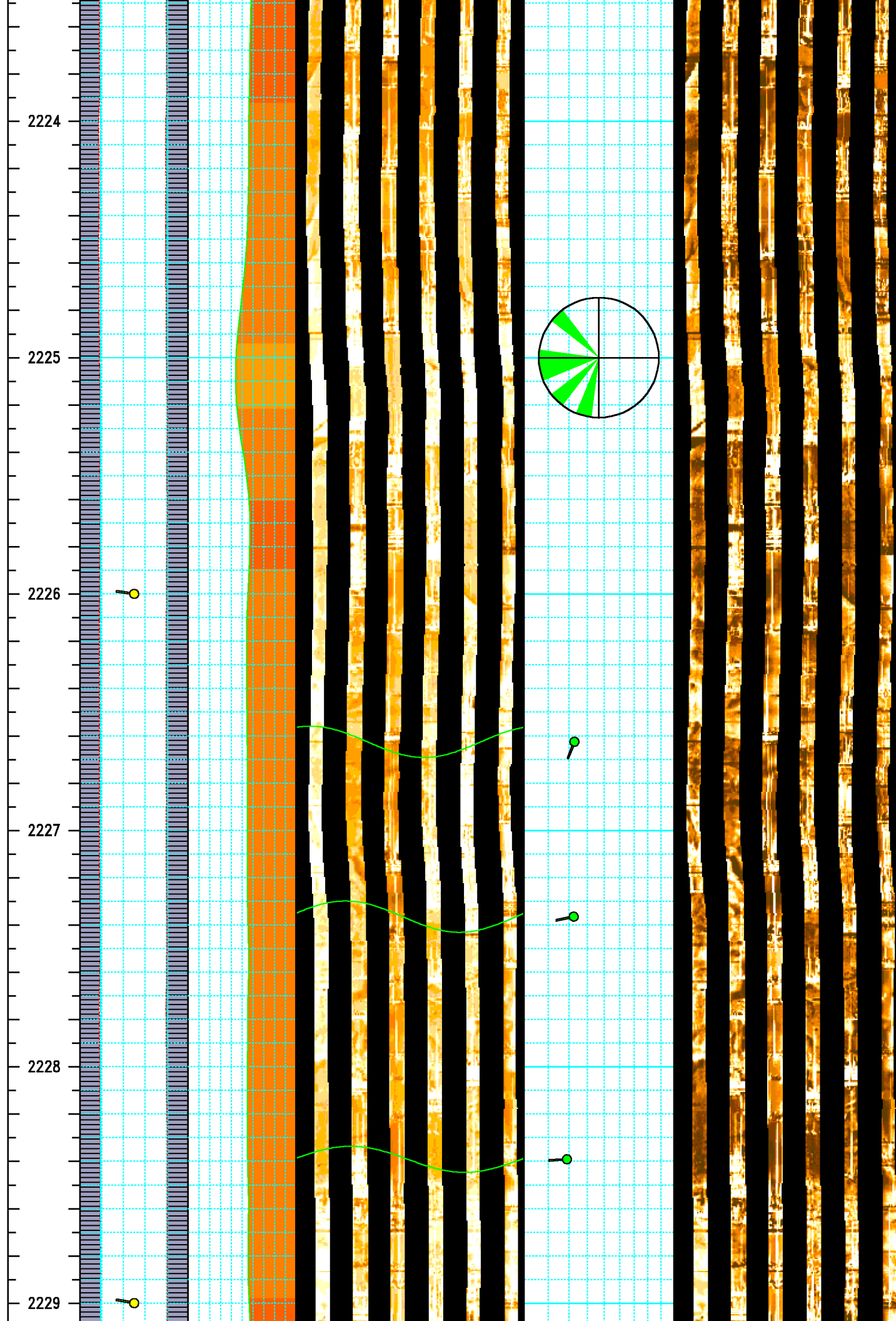


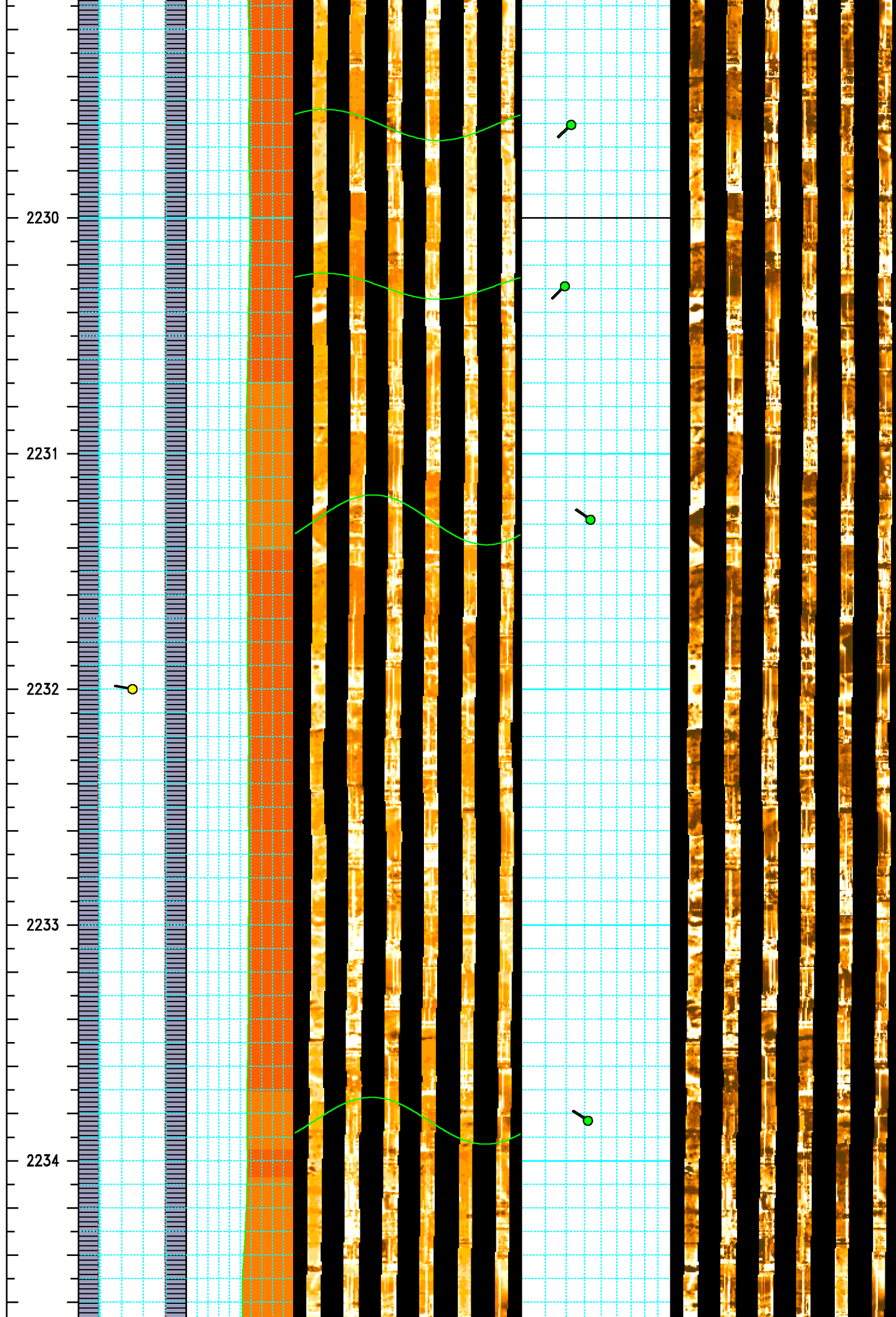


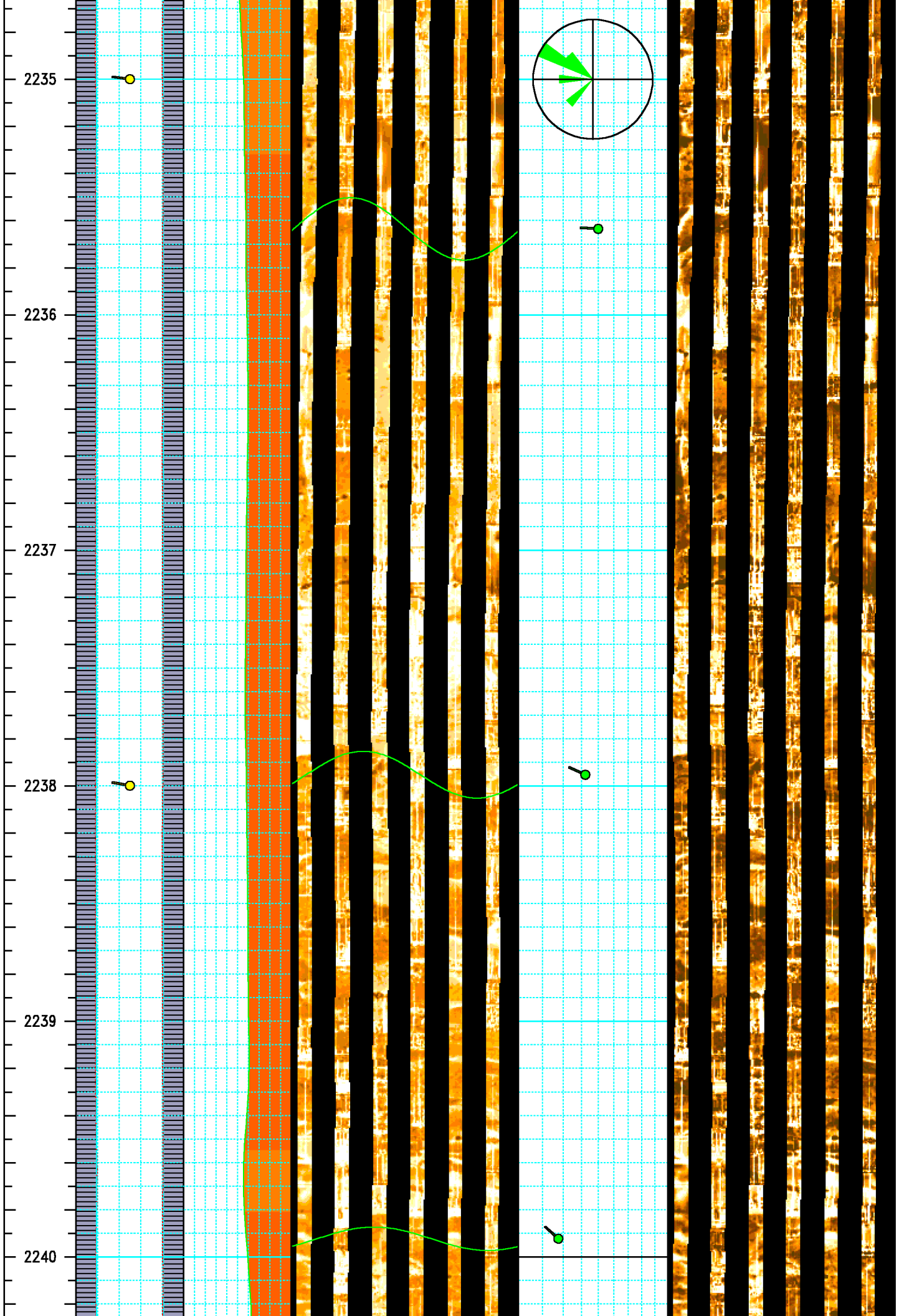


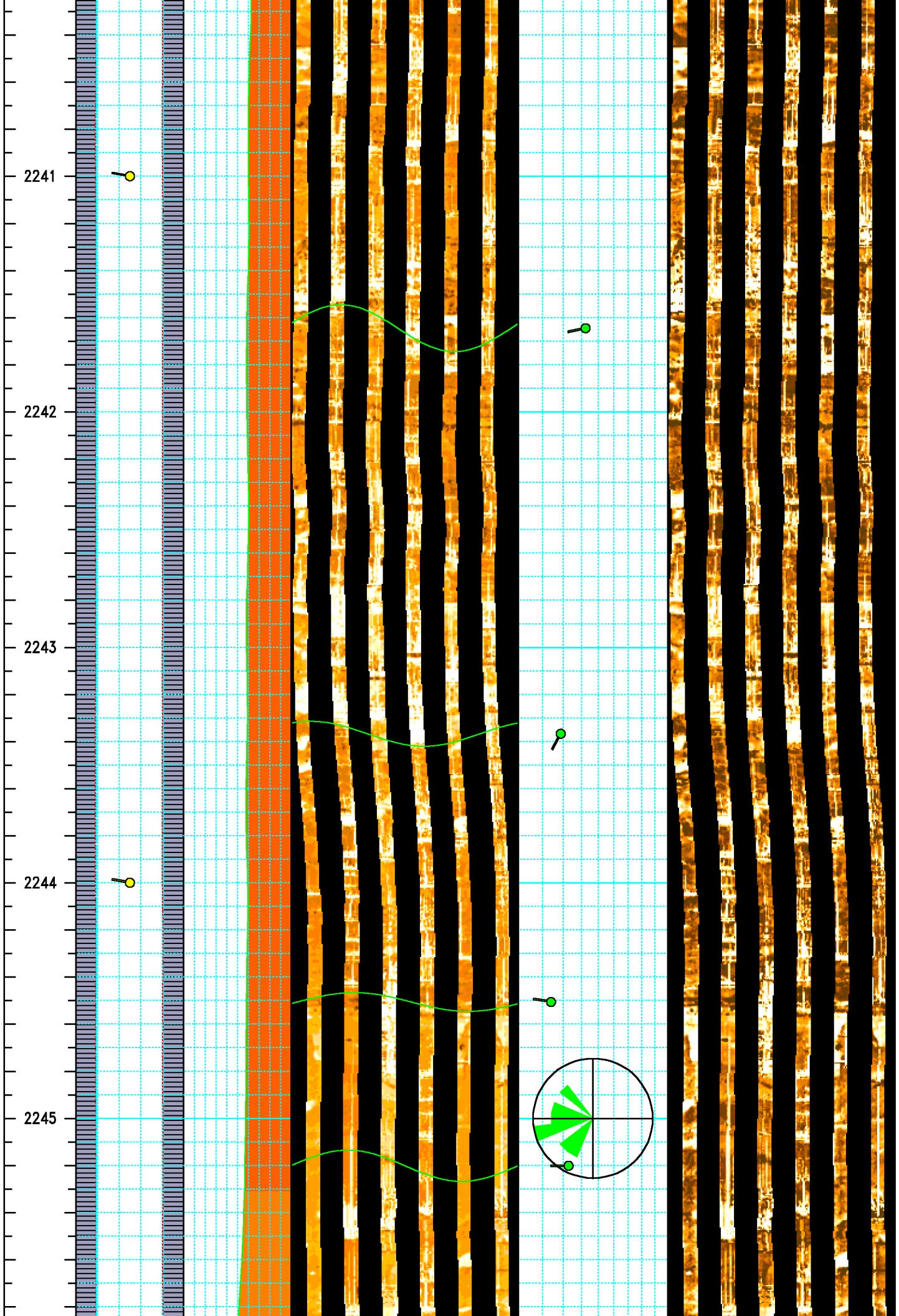


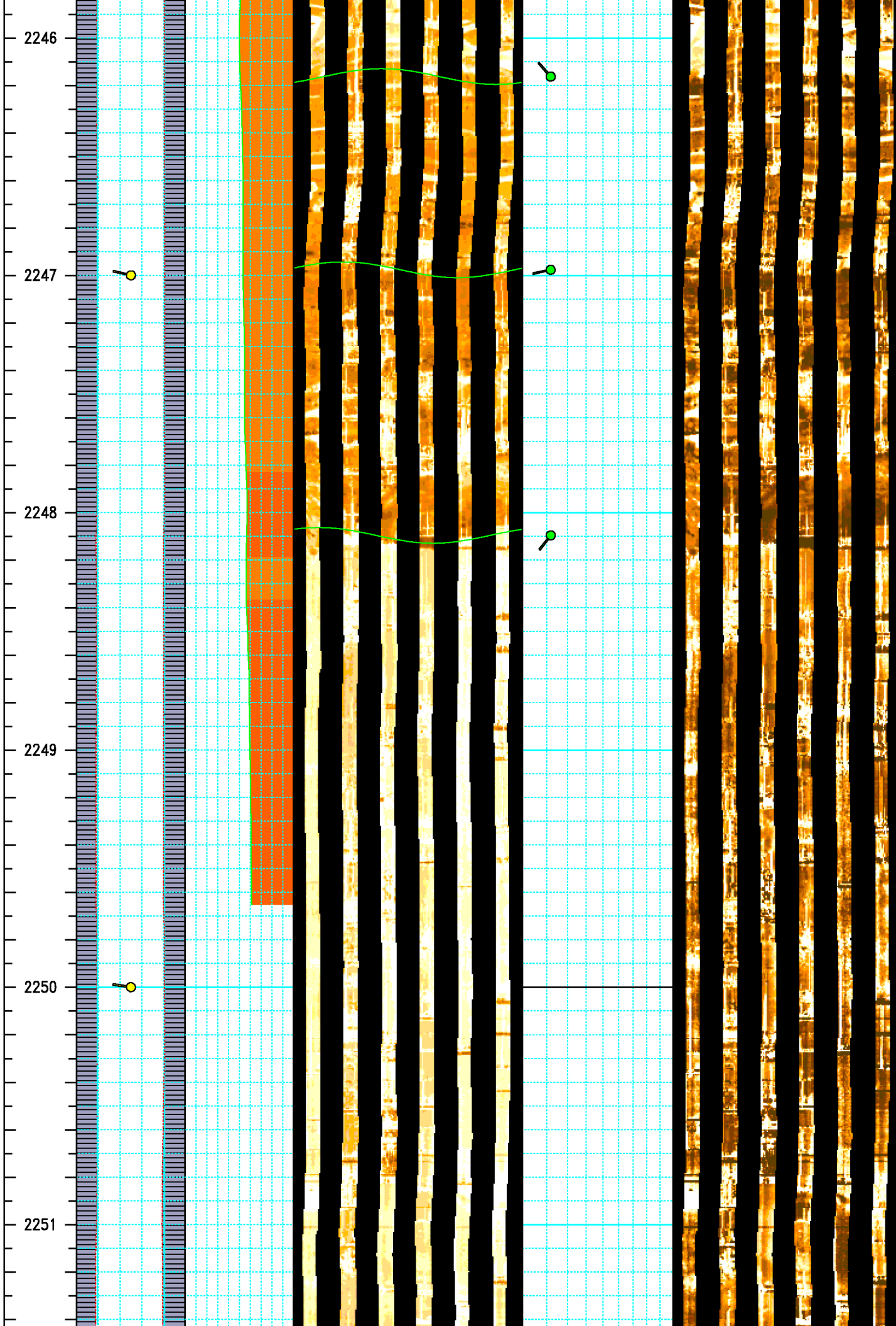


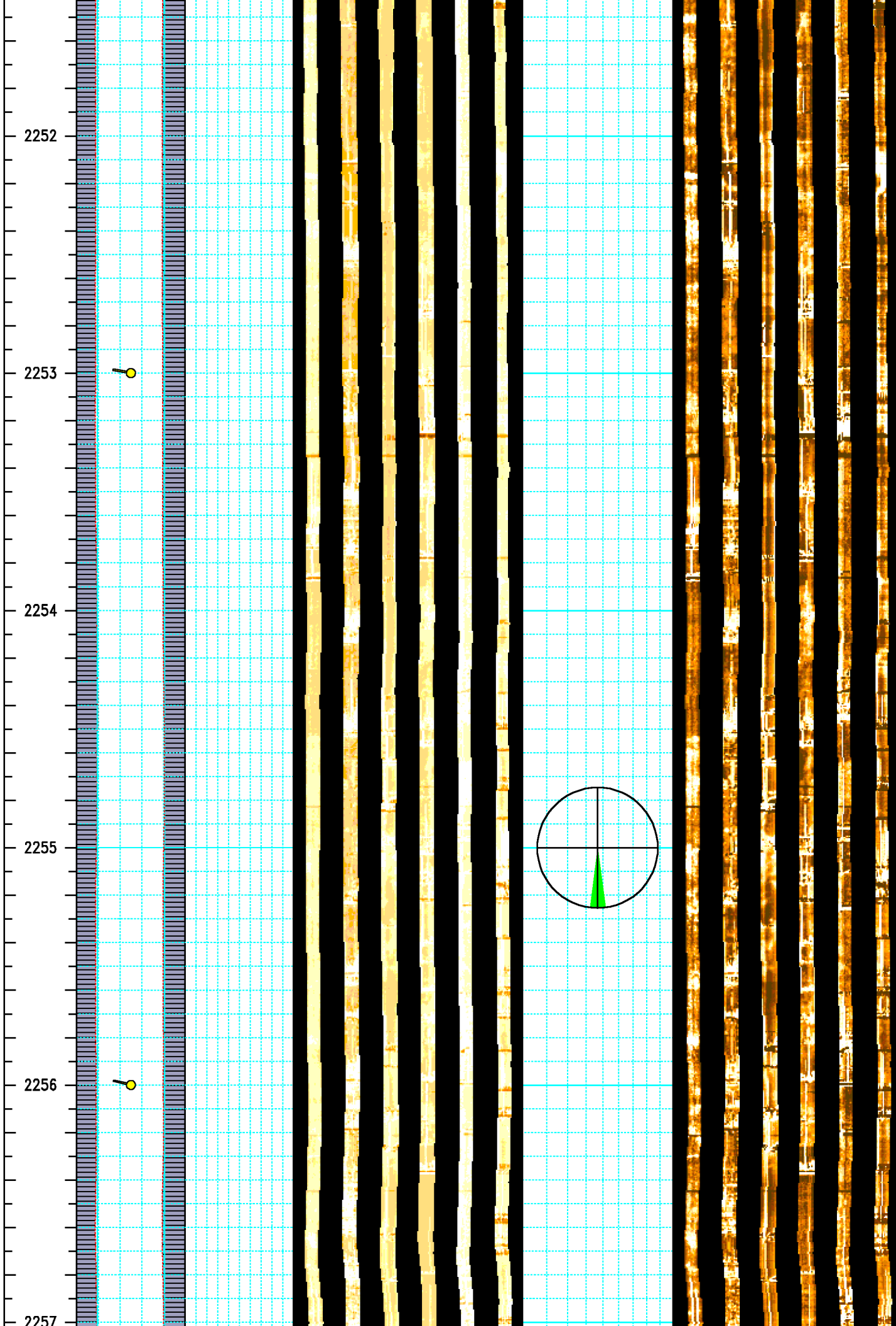


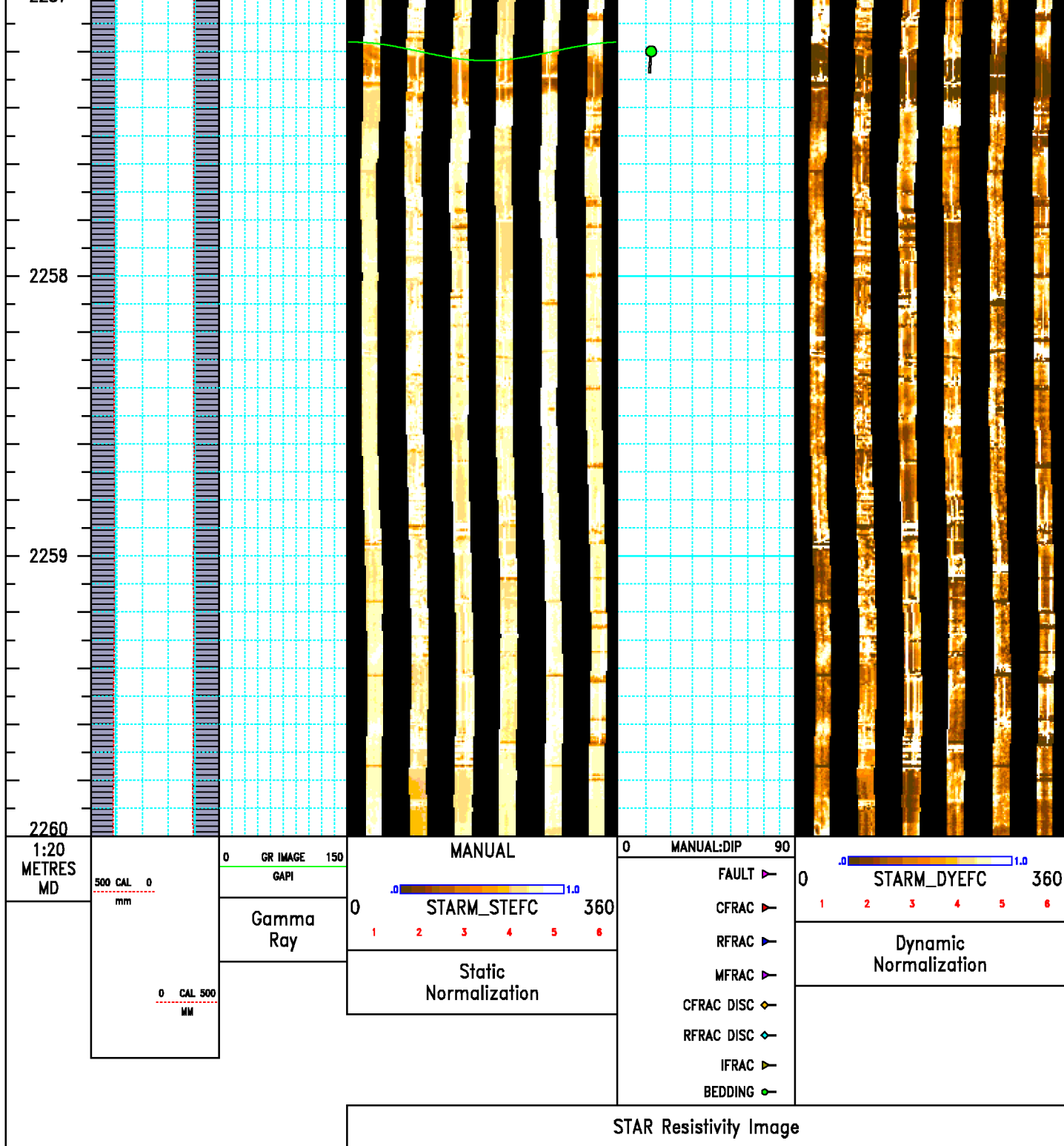




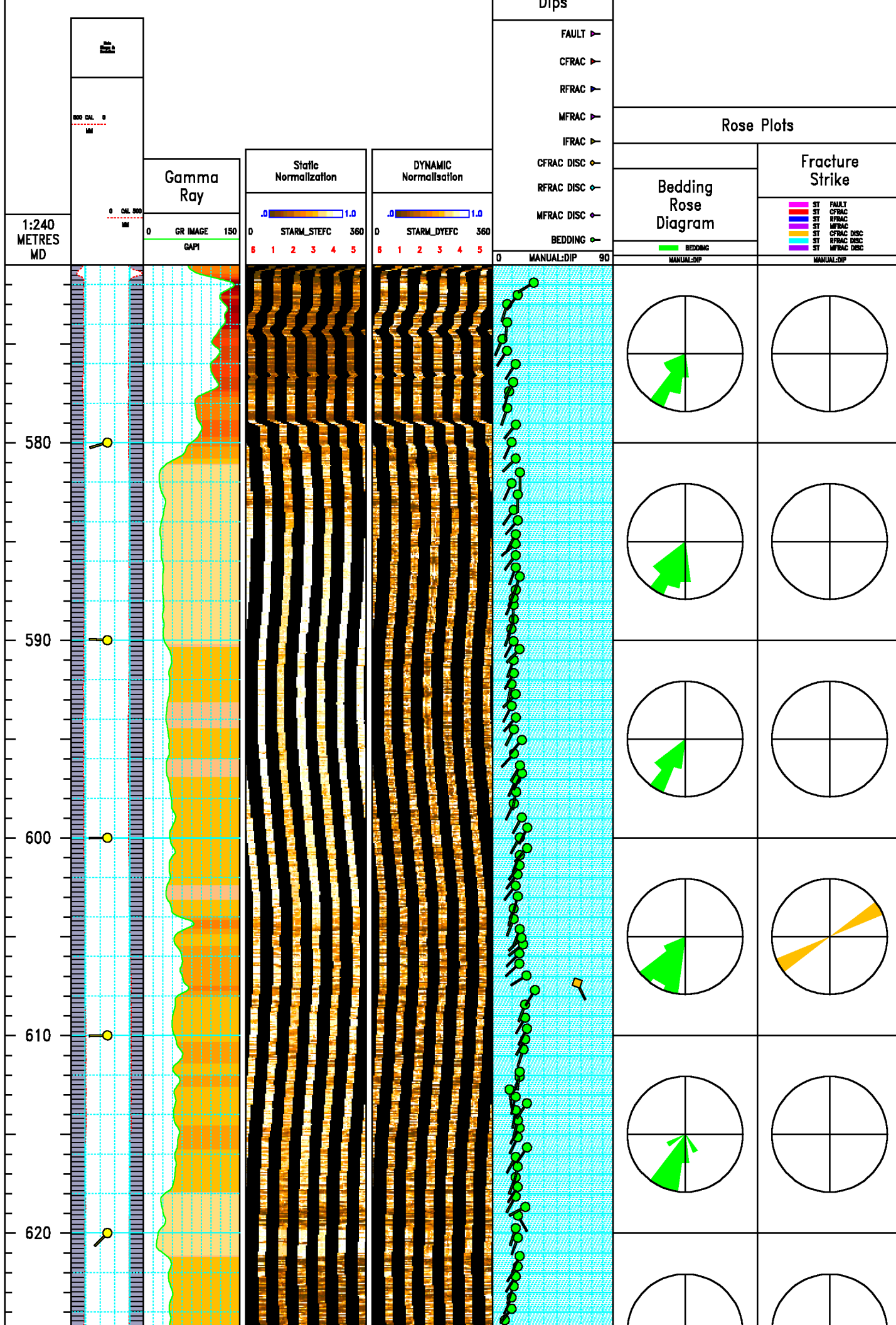


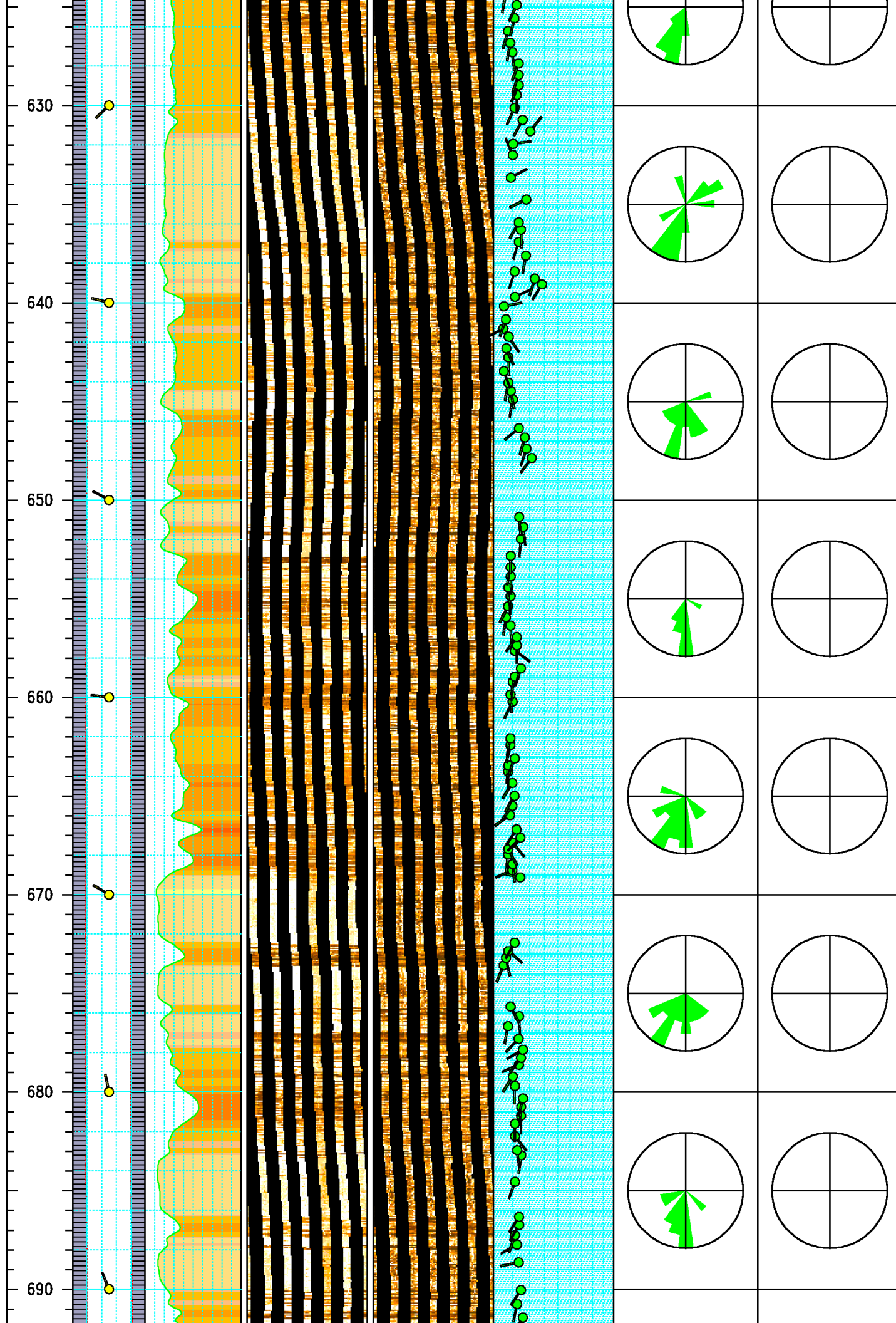


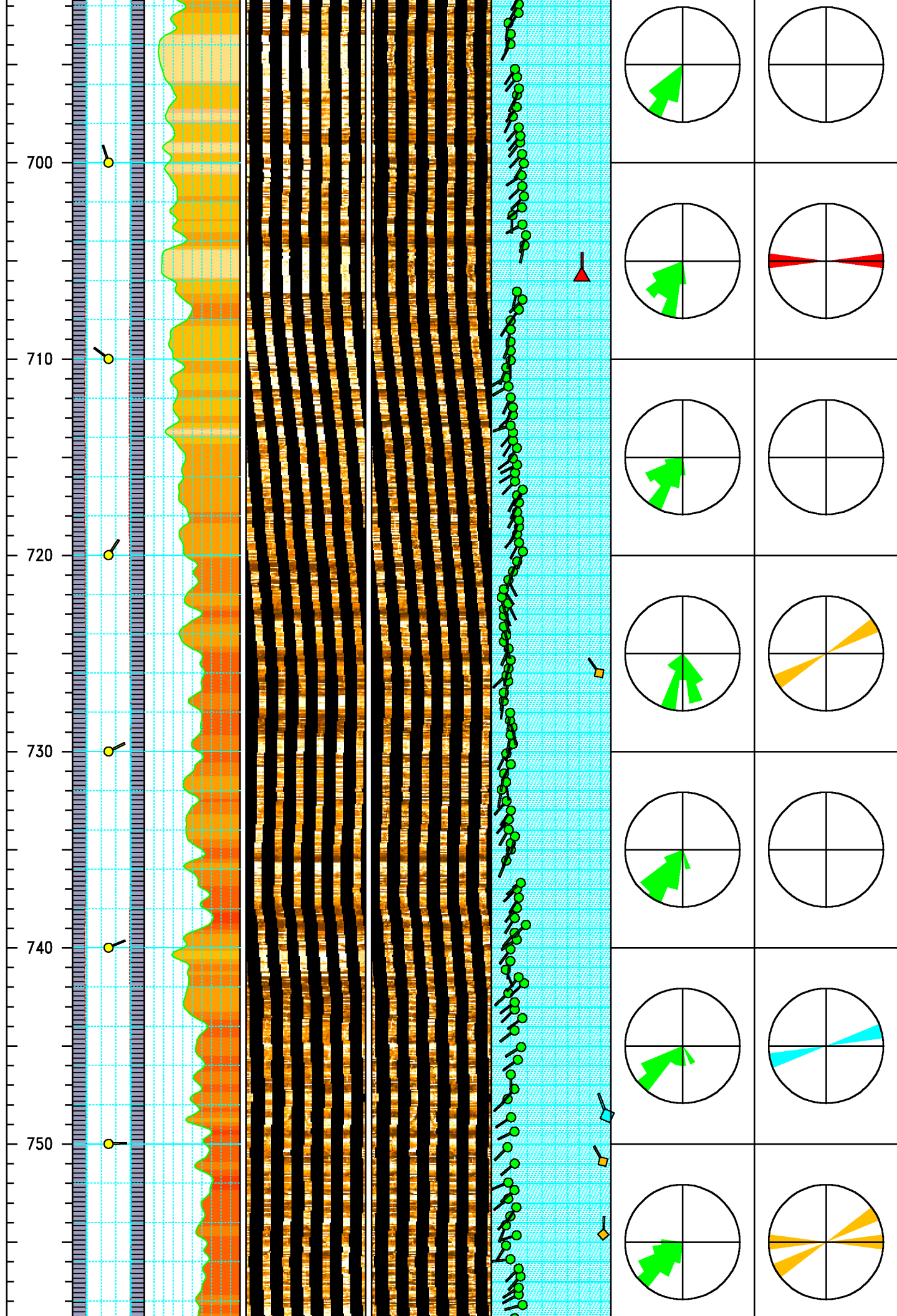


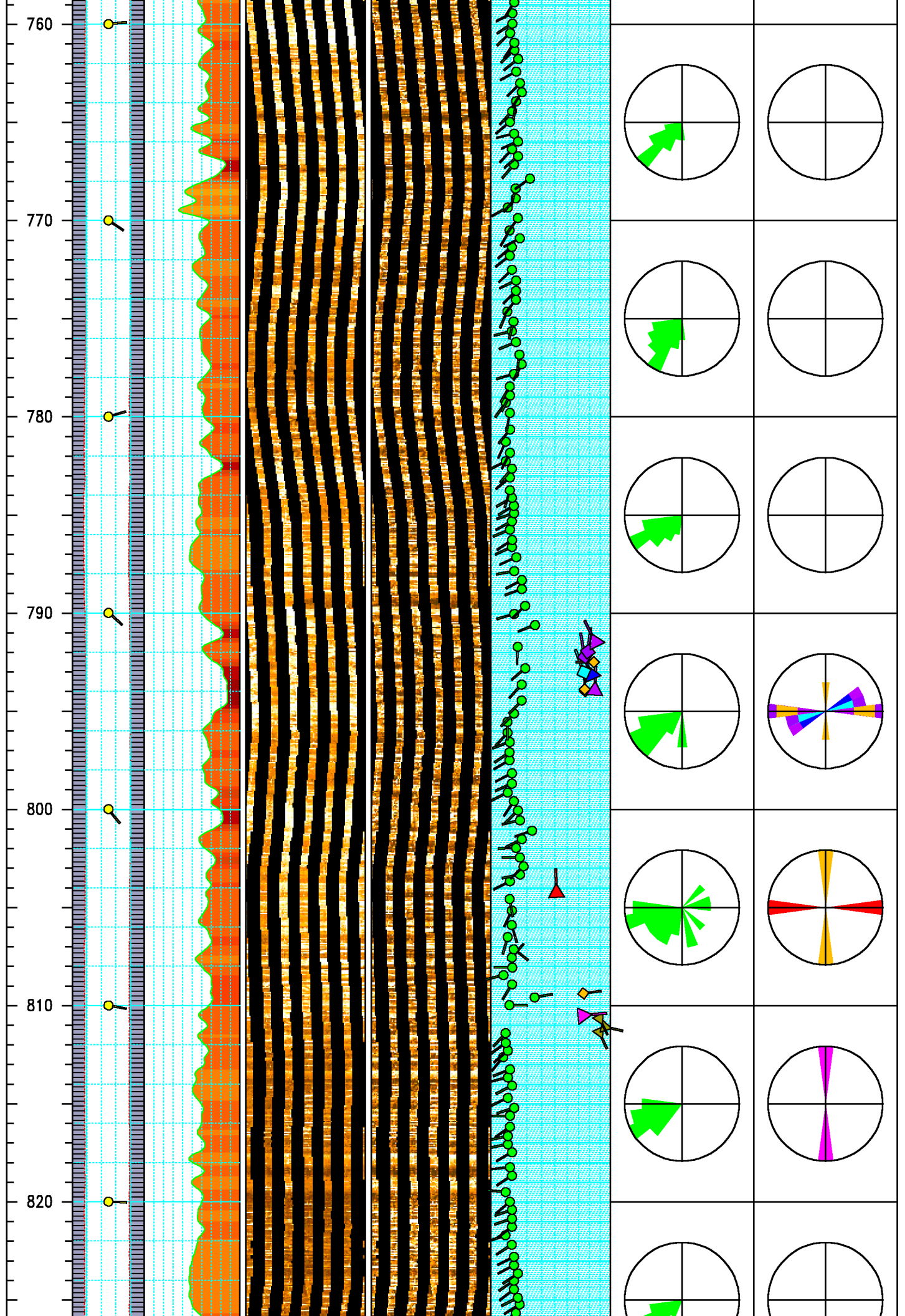


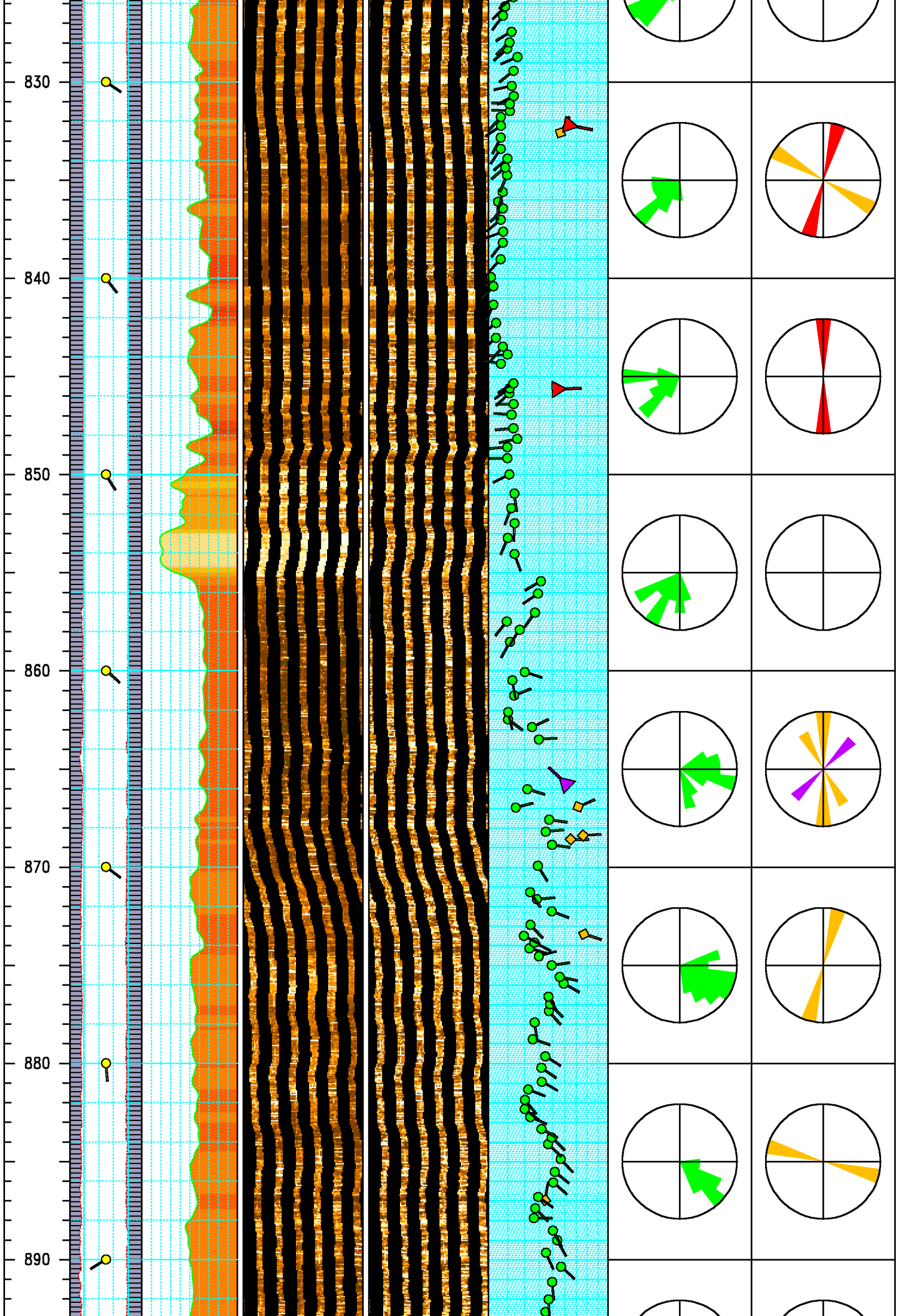
STAR IMAGE
IMAGE ORIENTED TO THE NORTH
DEPTH RANGE: 571.00–2260.00 METRES
SCALE 1/240

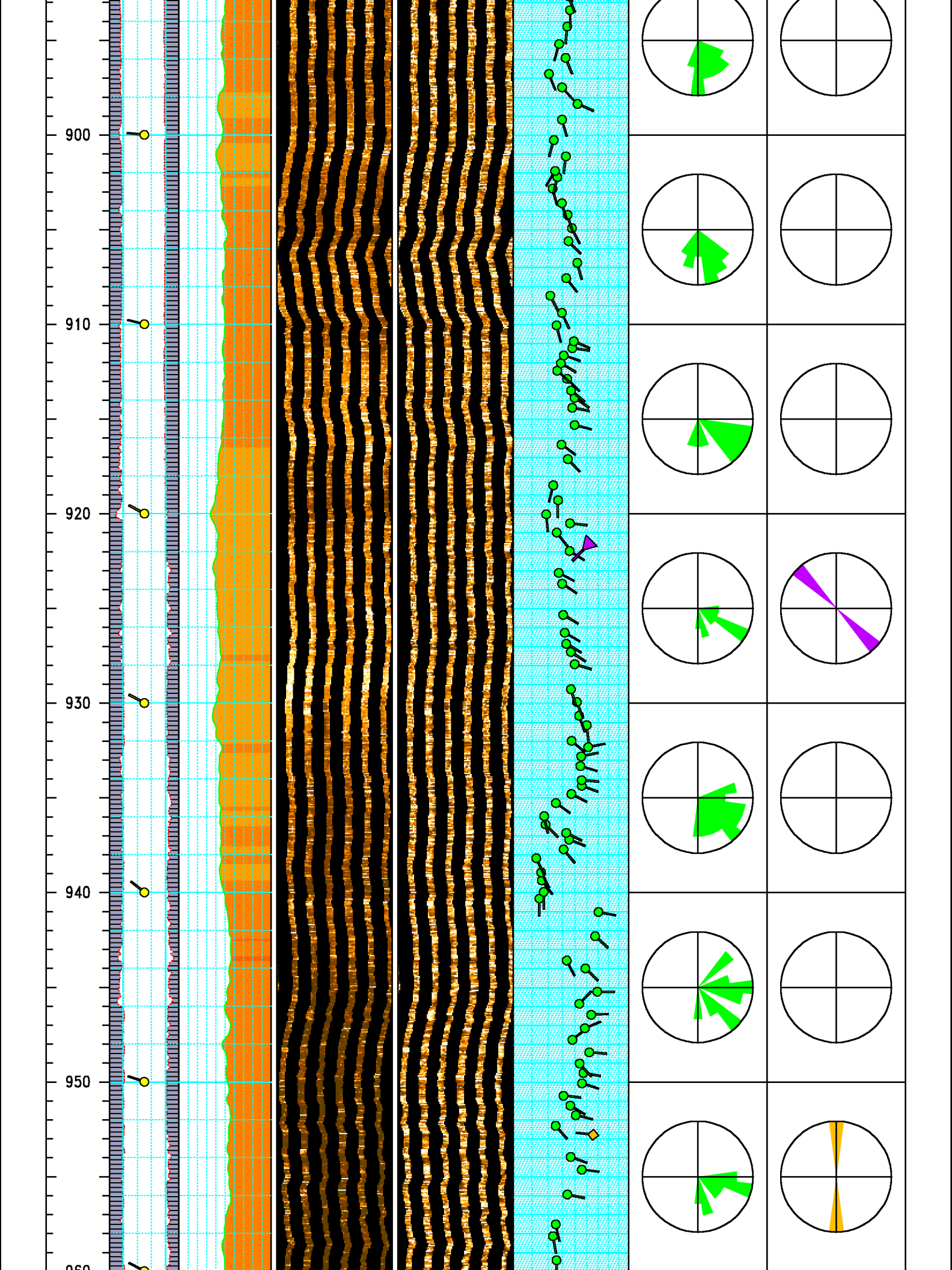


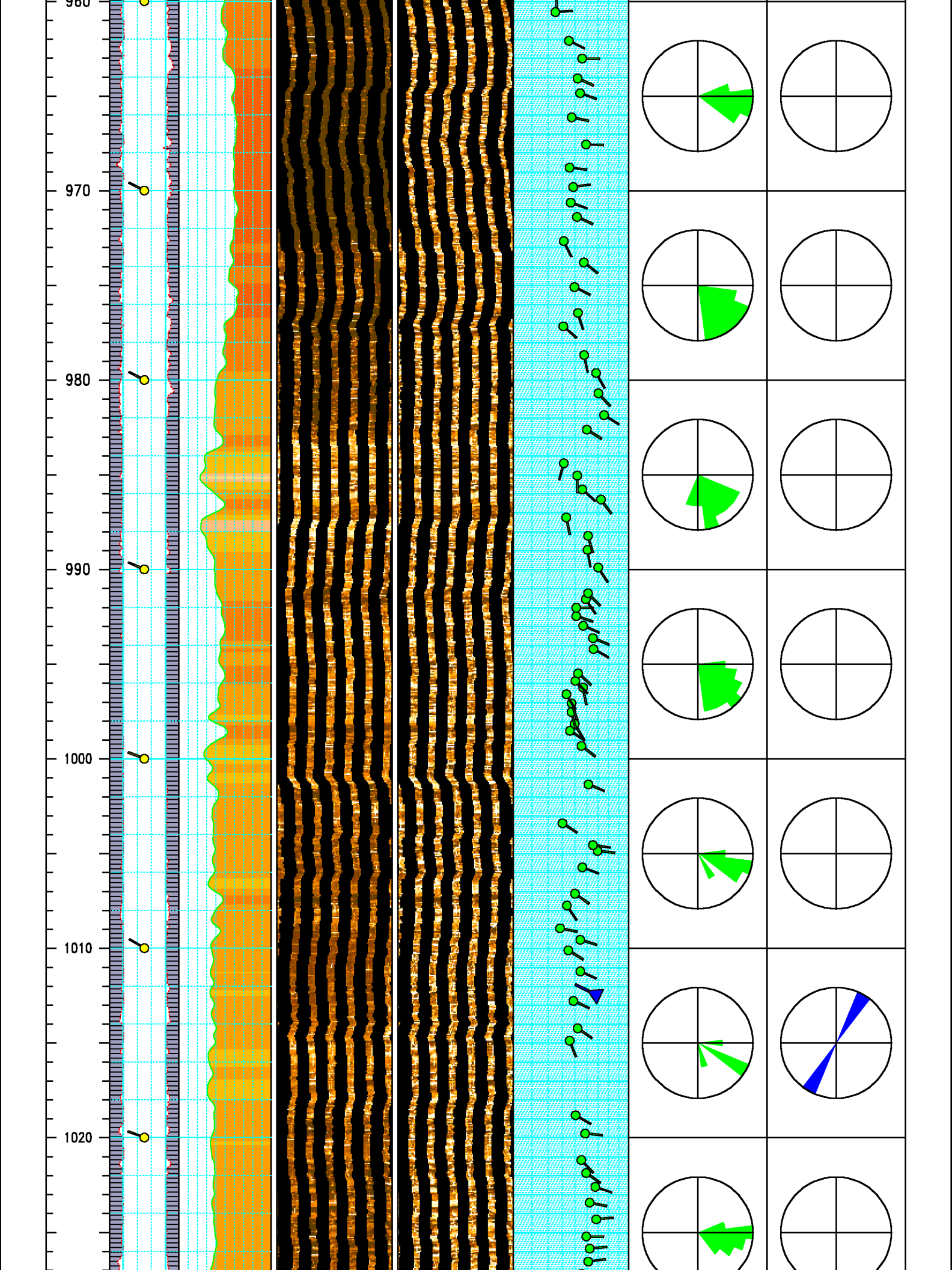


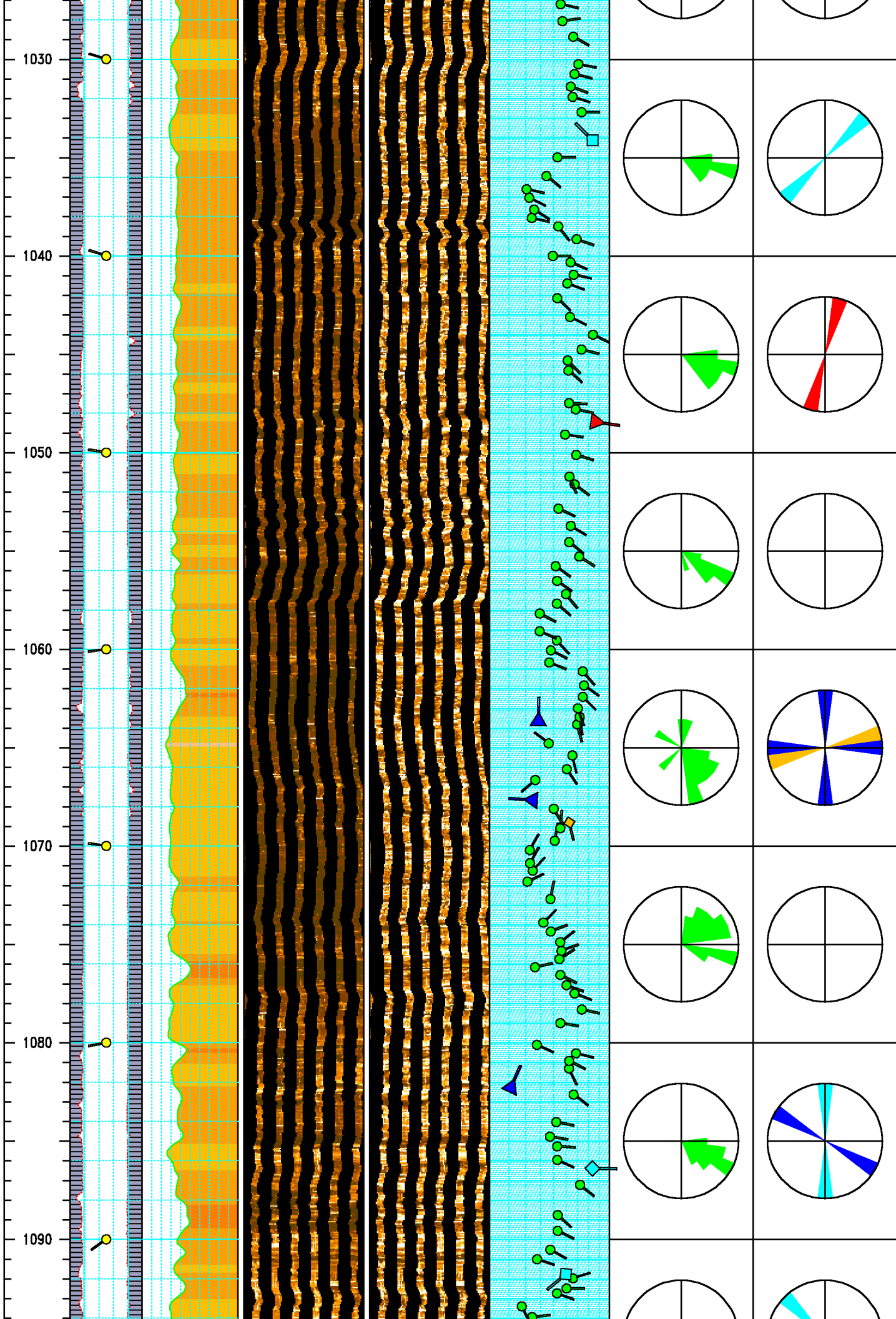


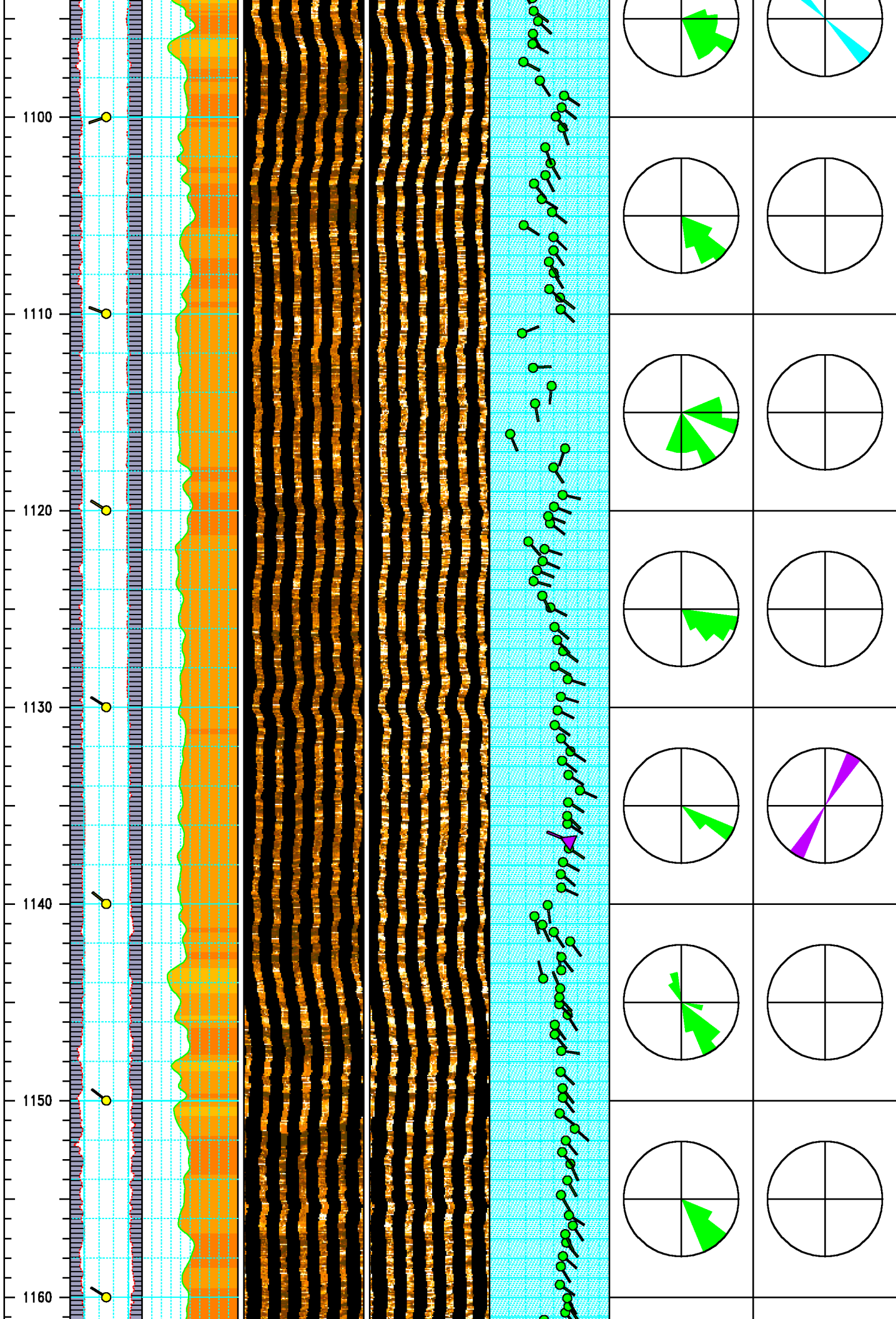


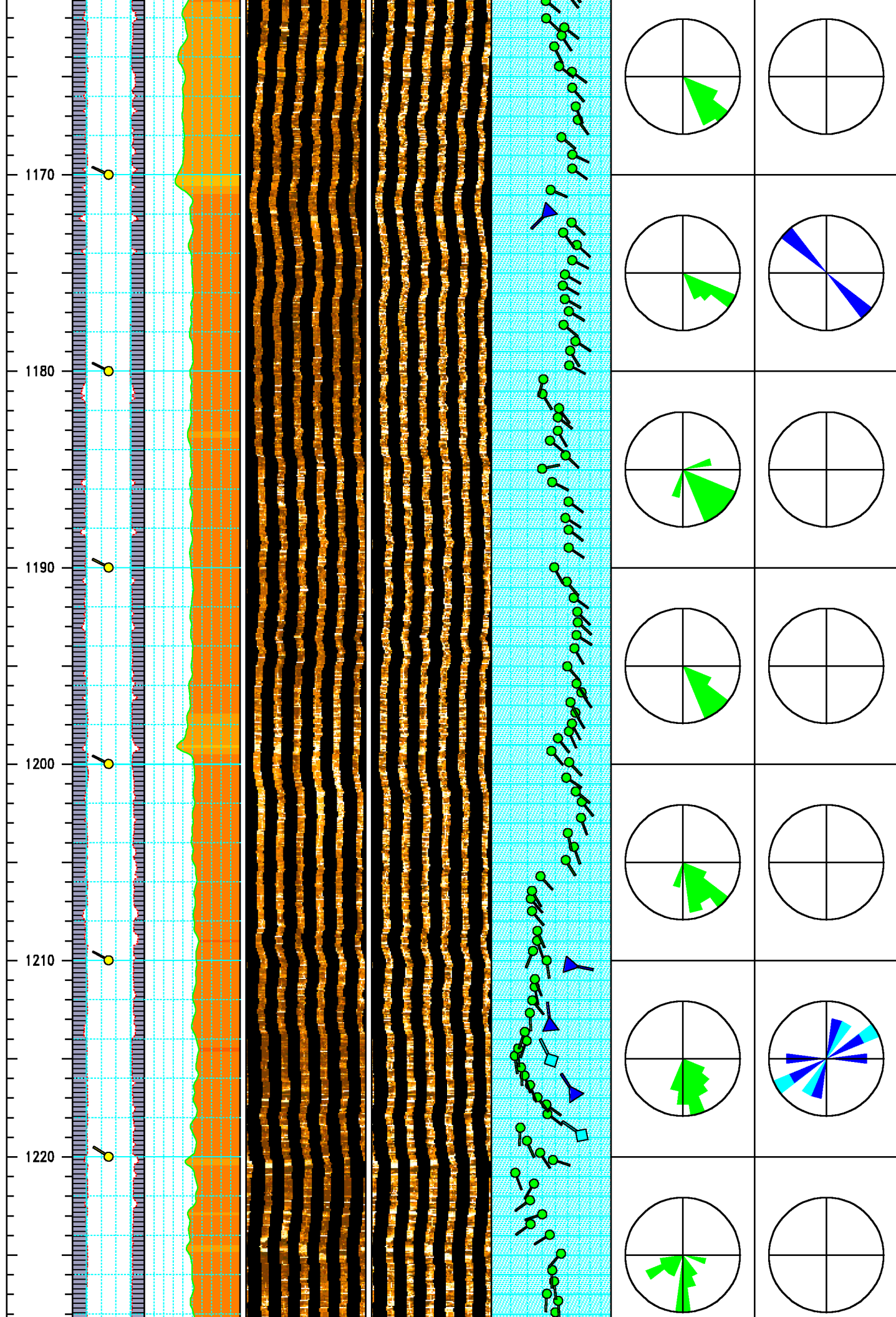


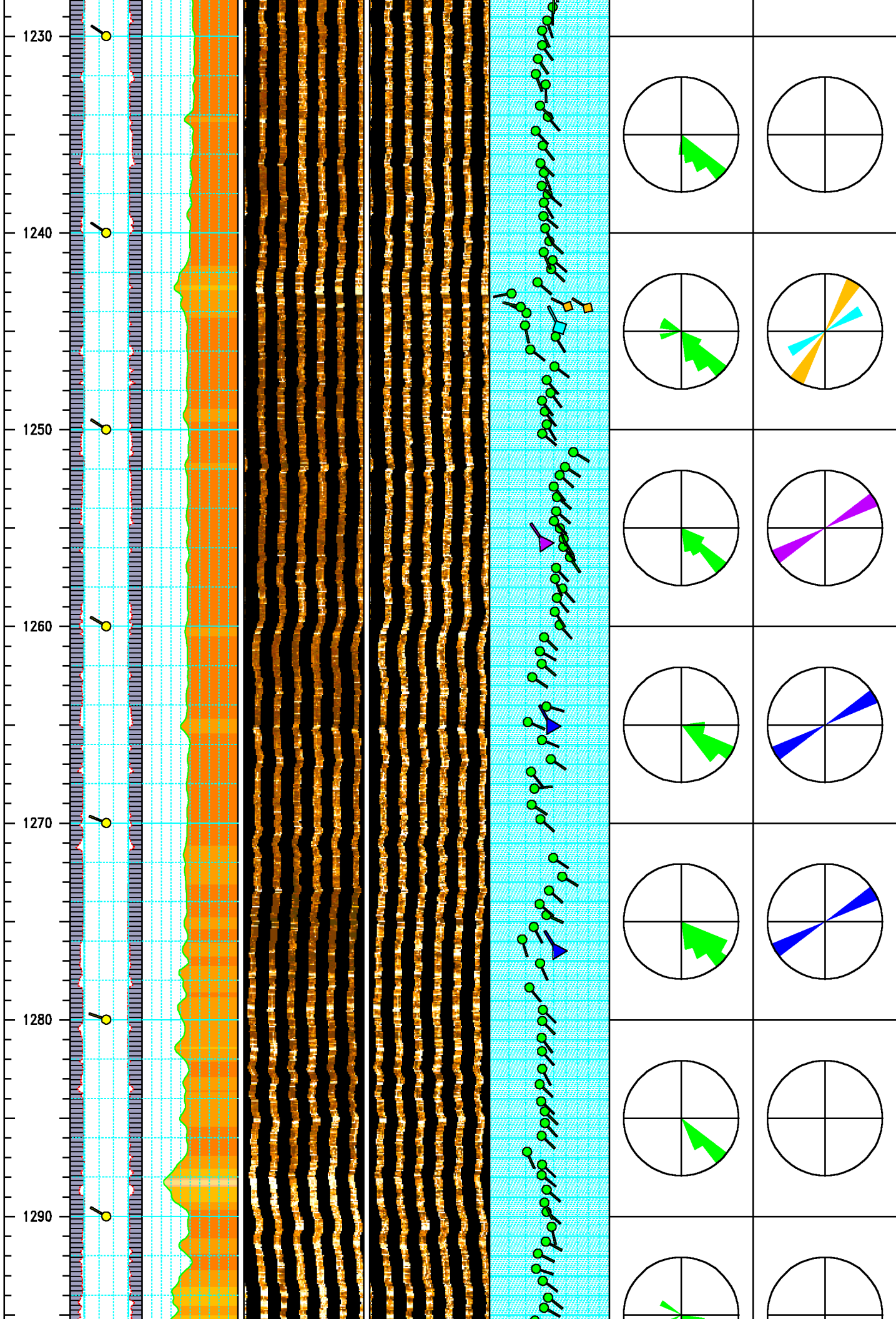


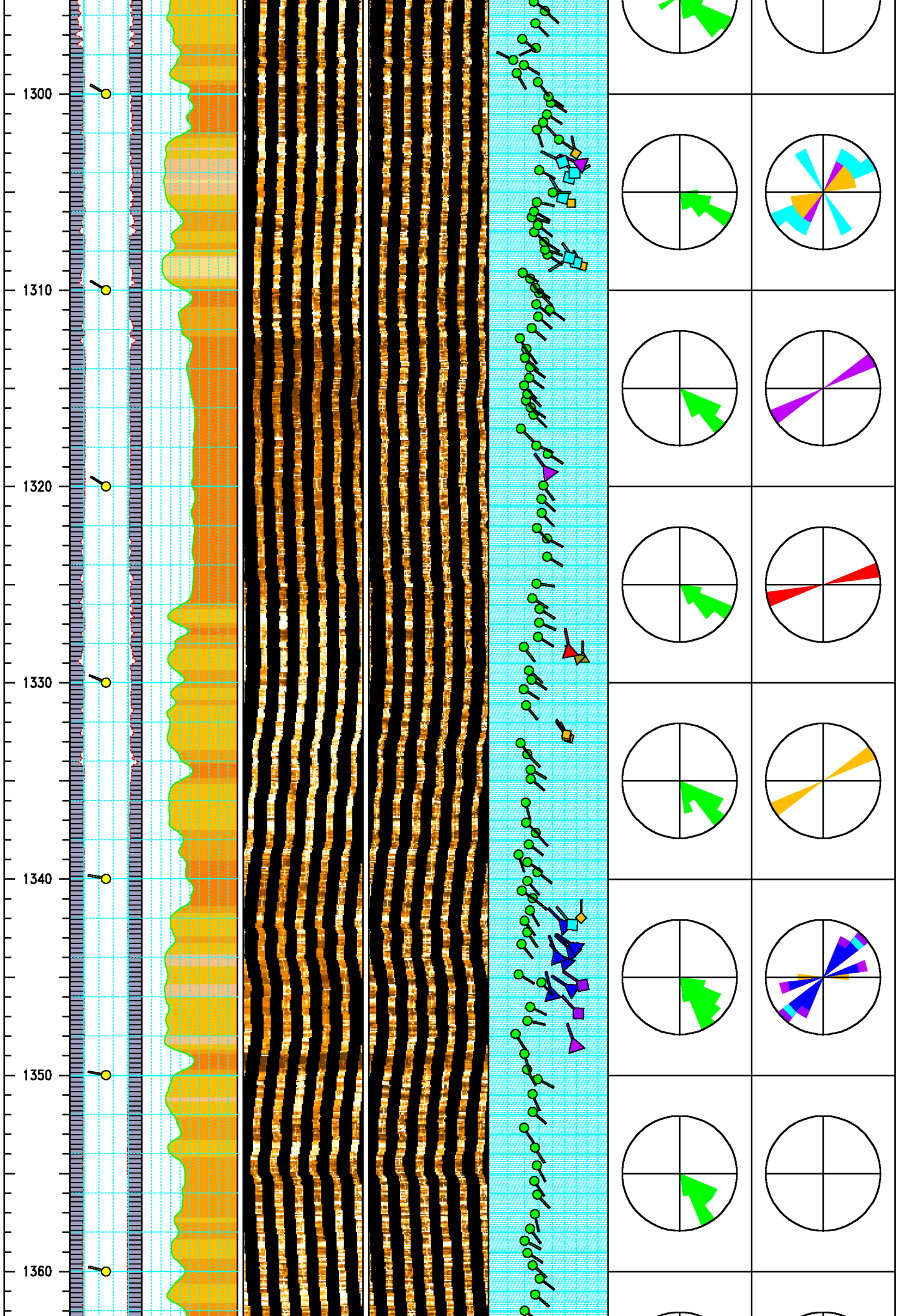


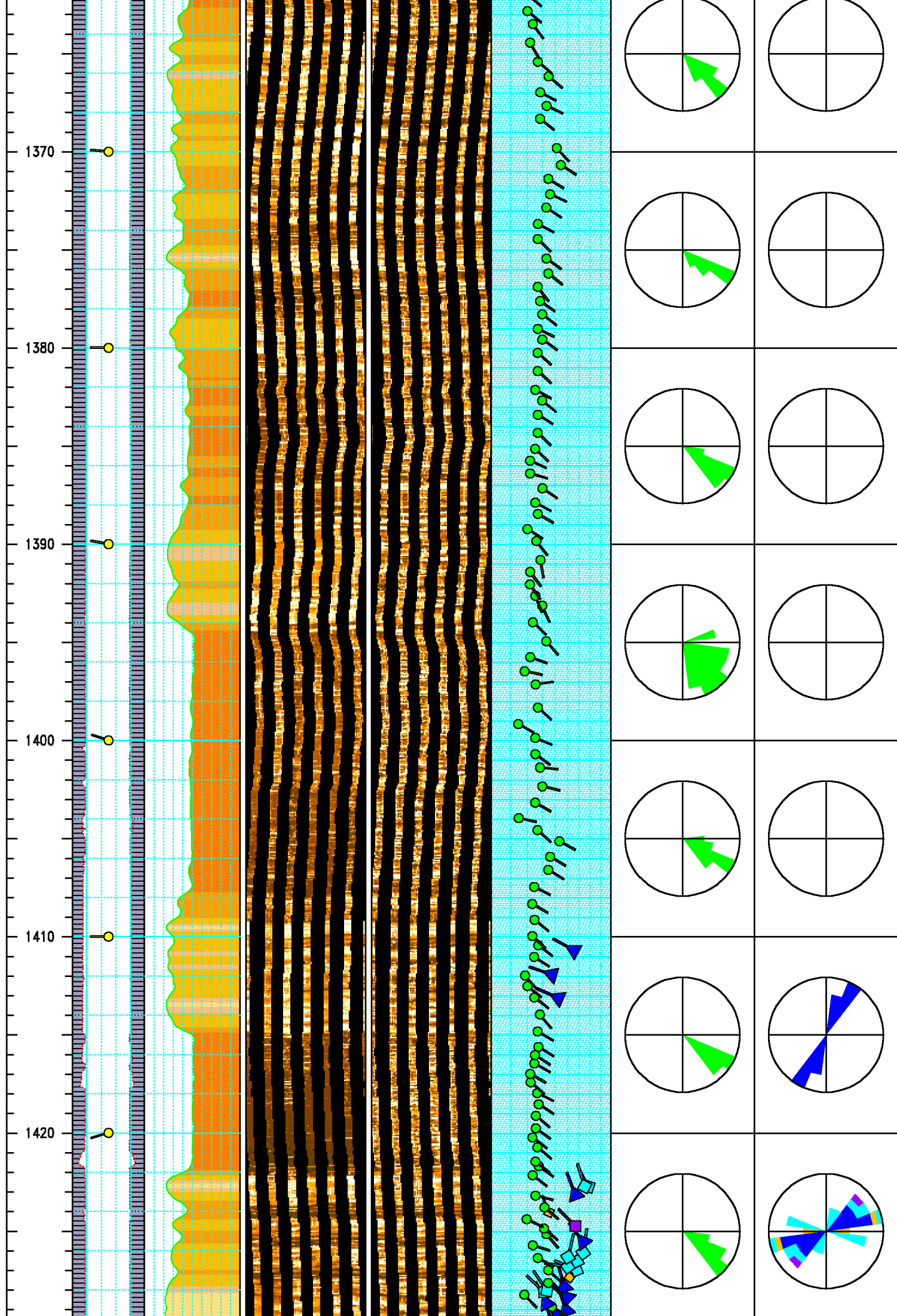


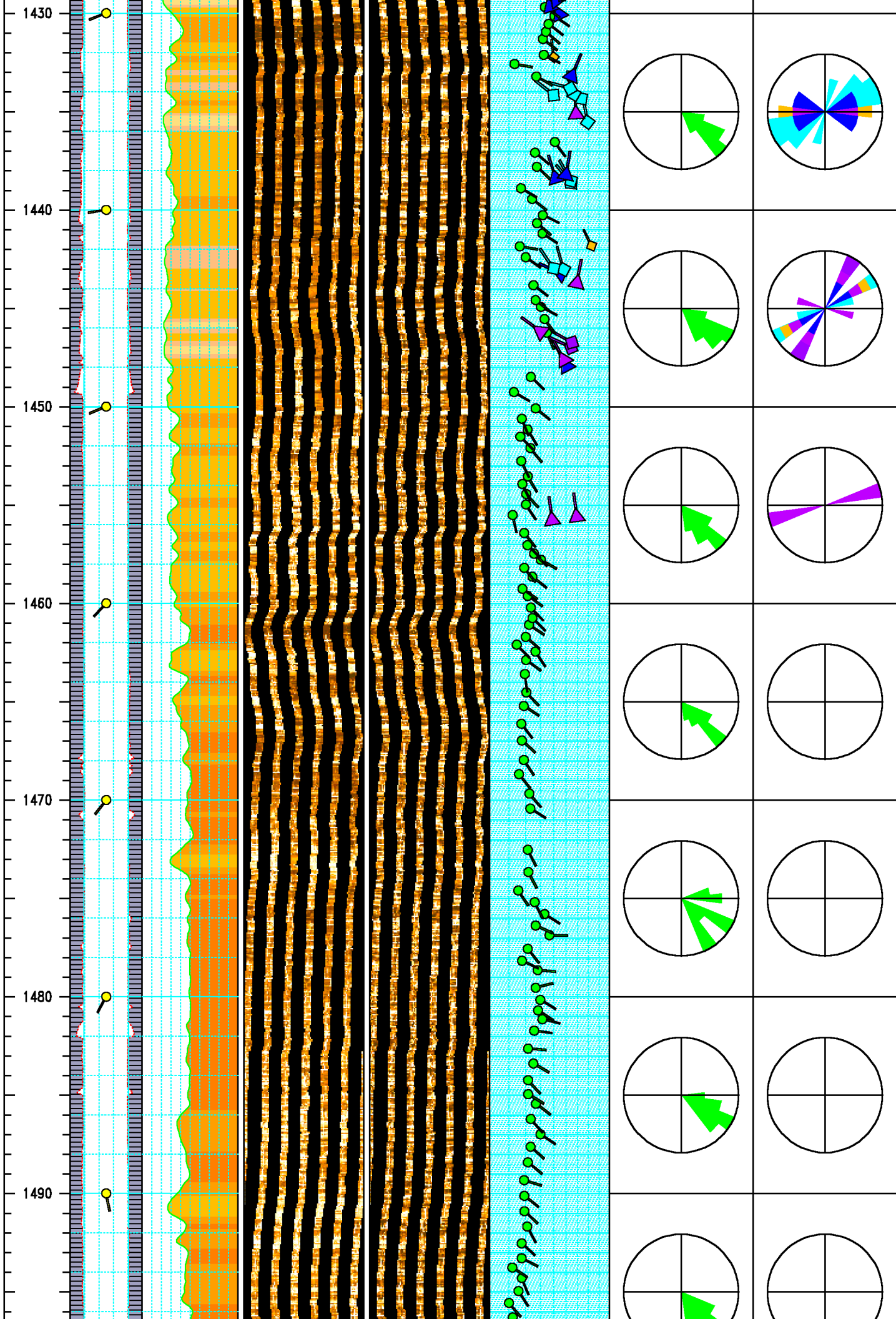


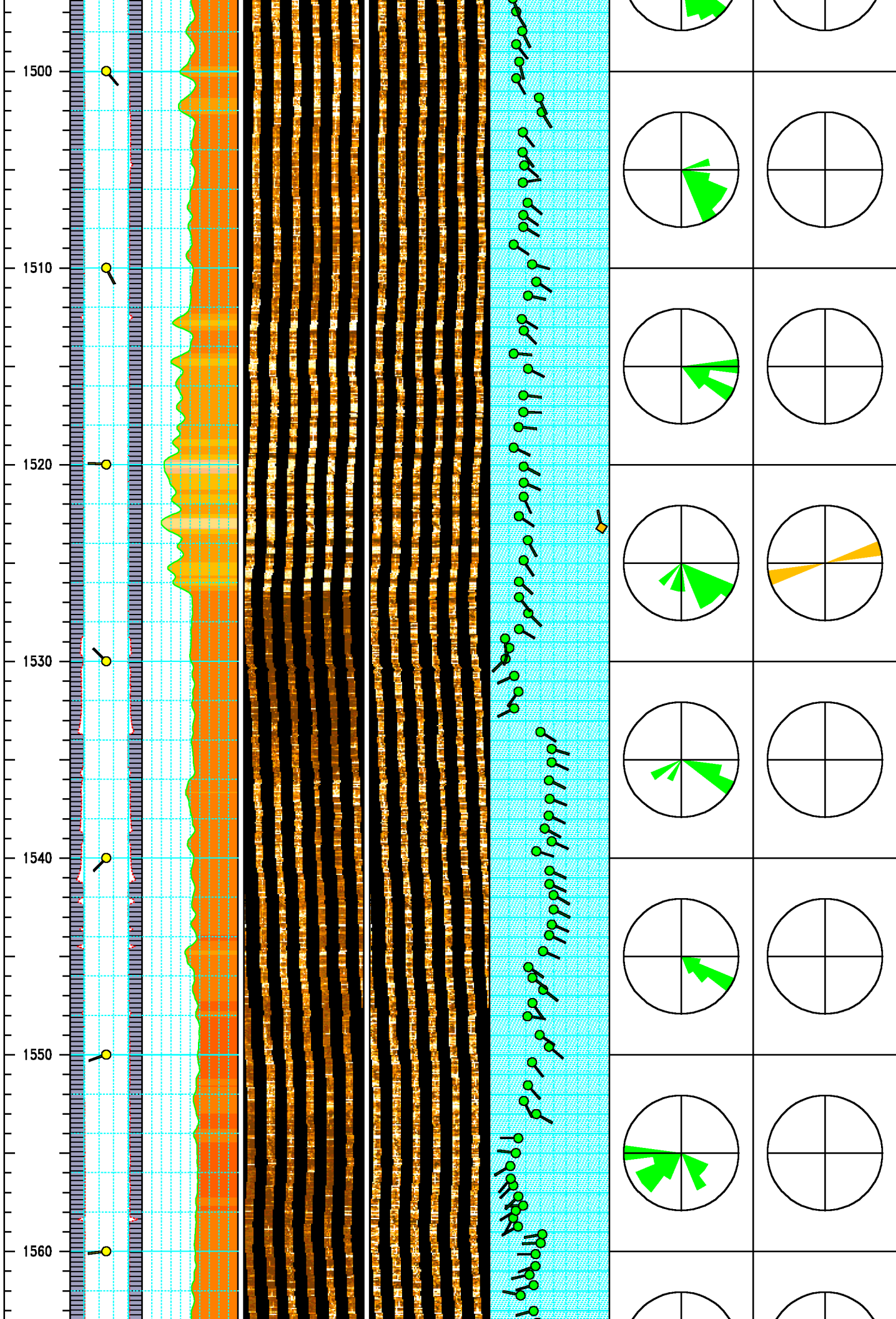


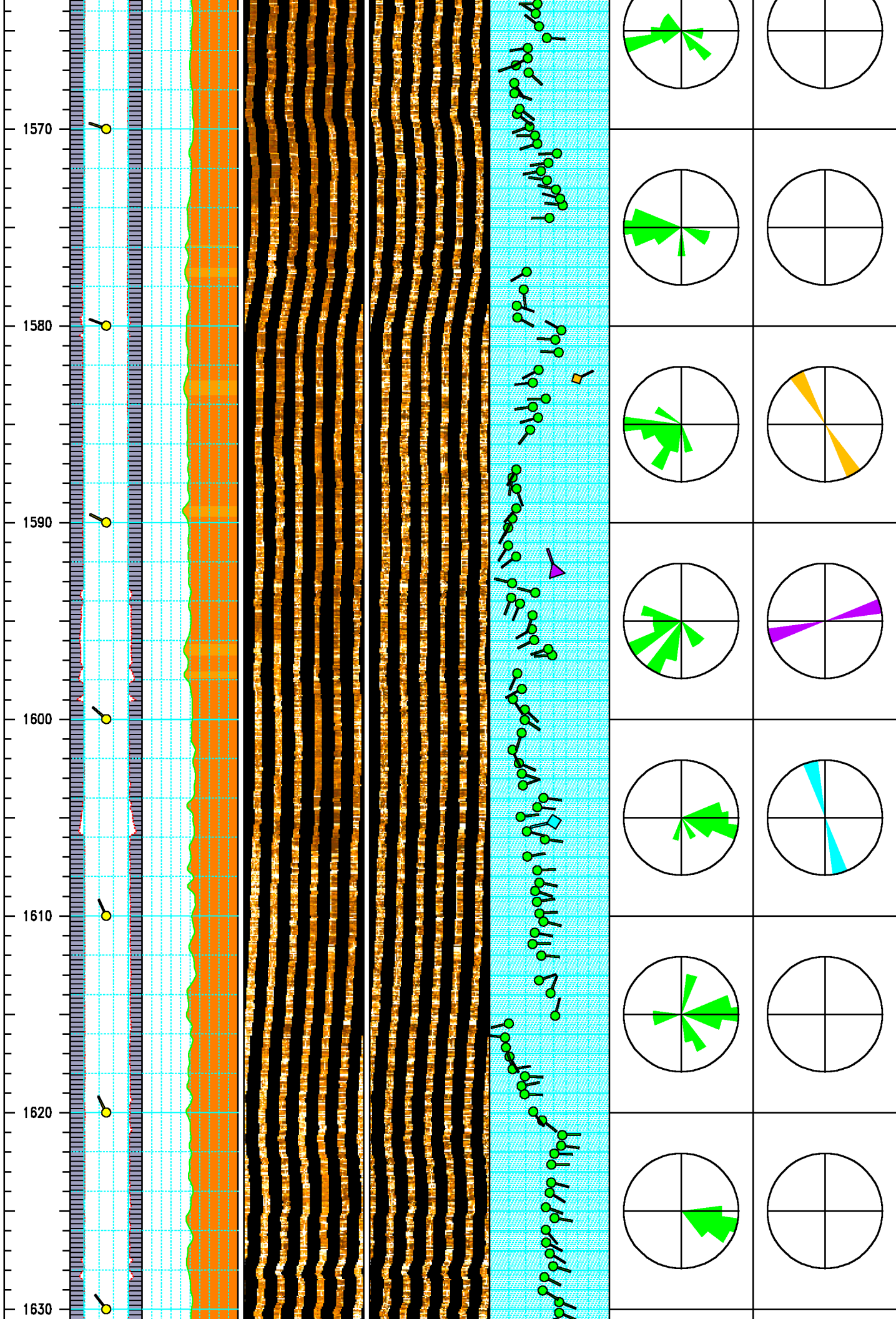


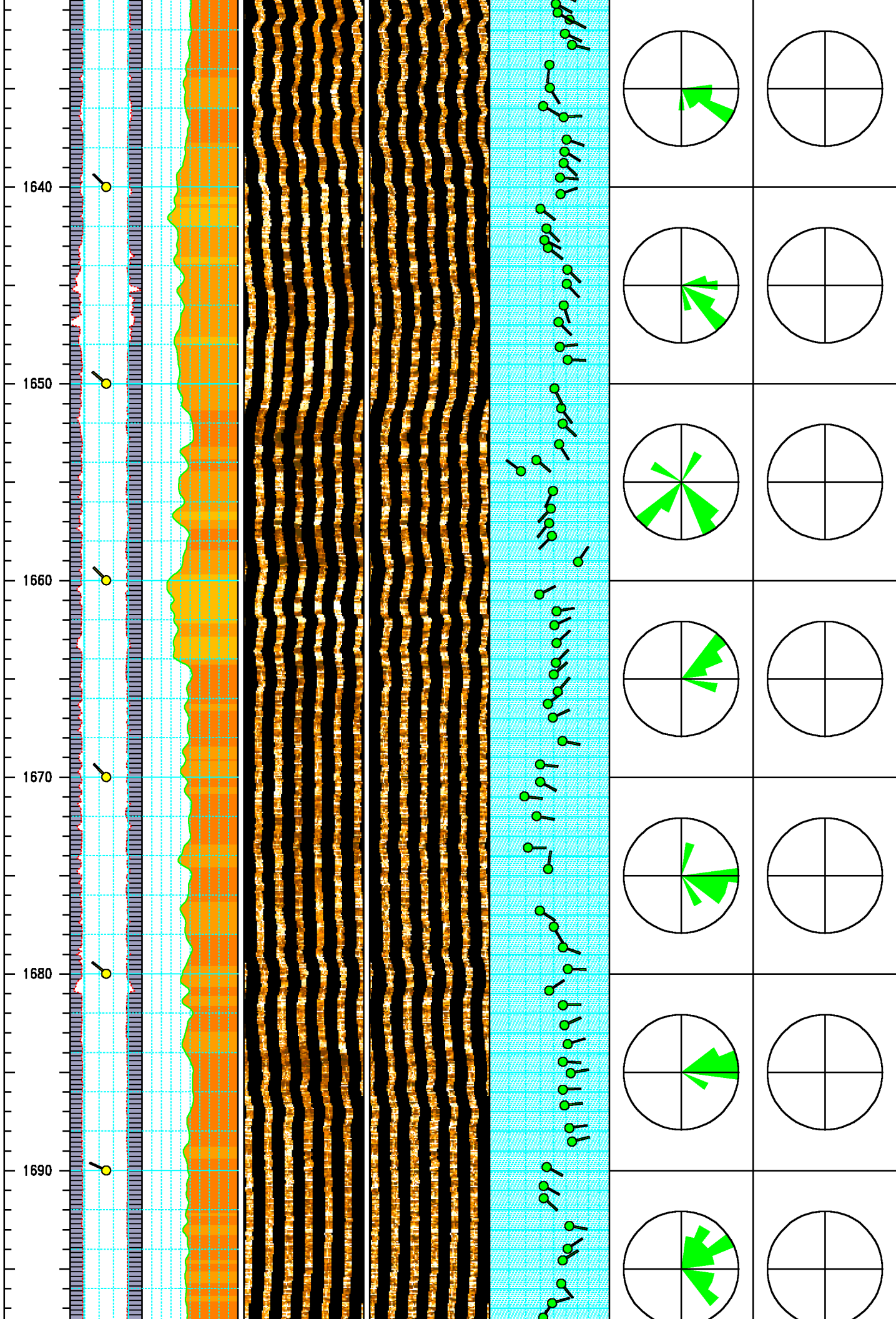


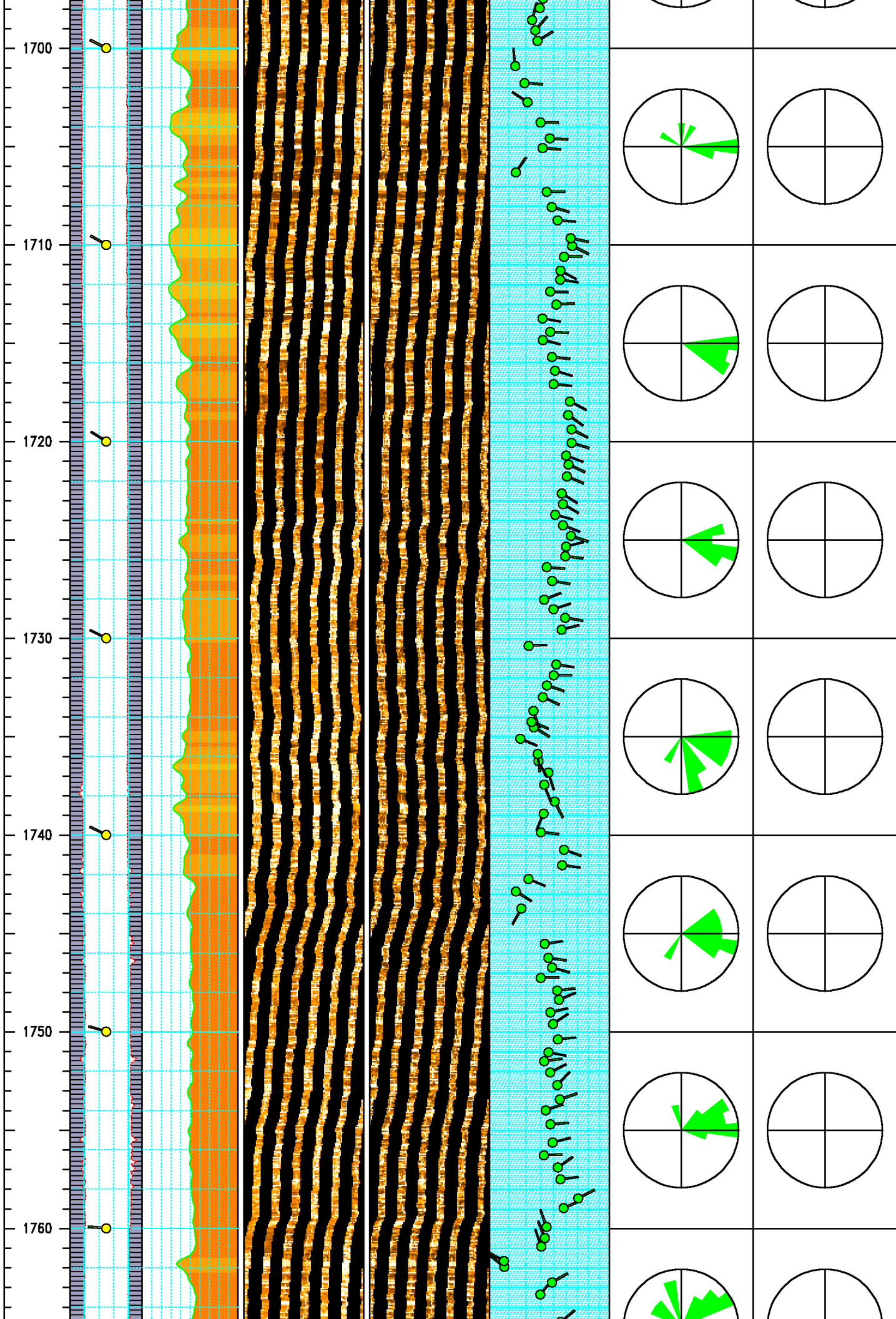


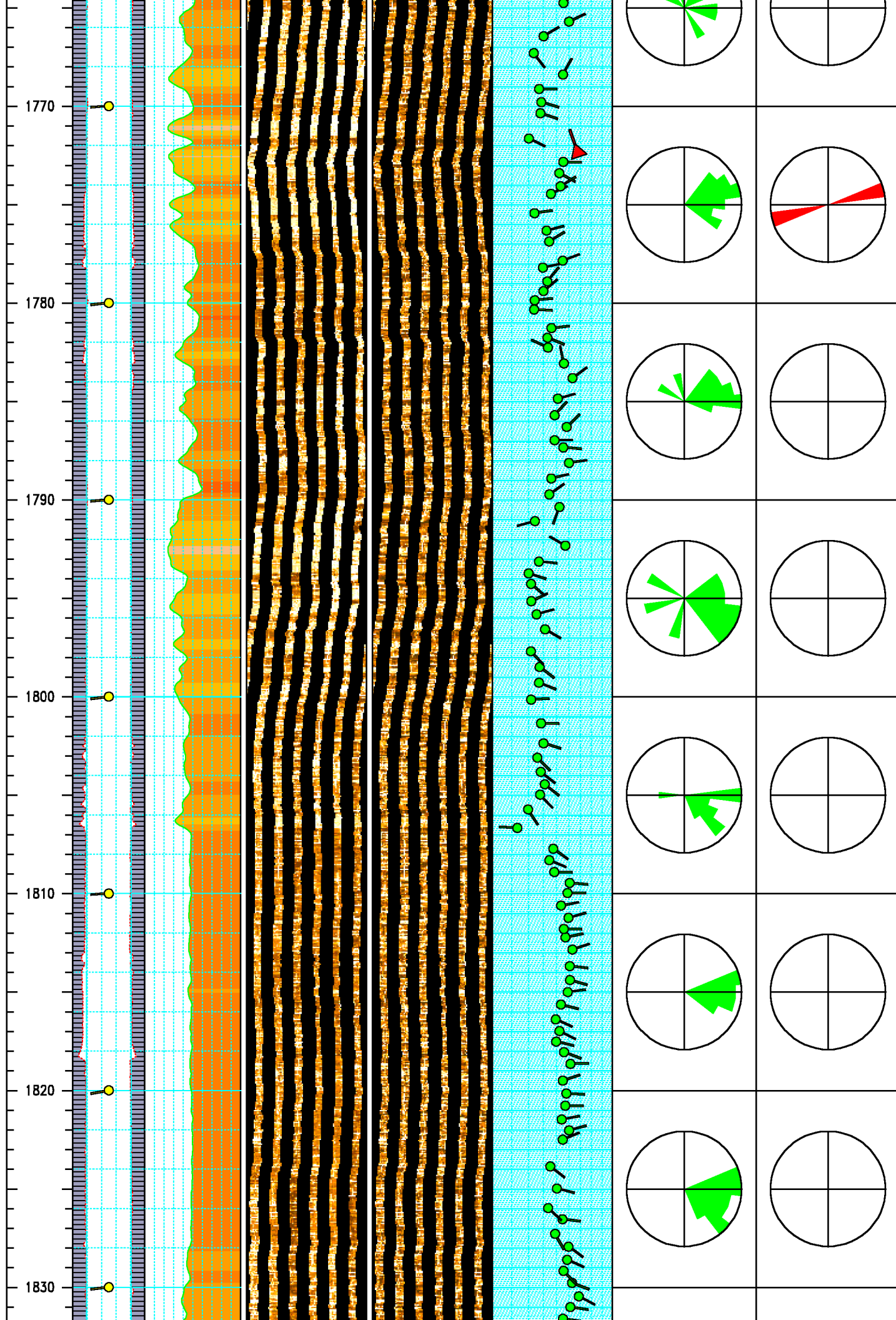


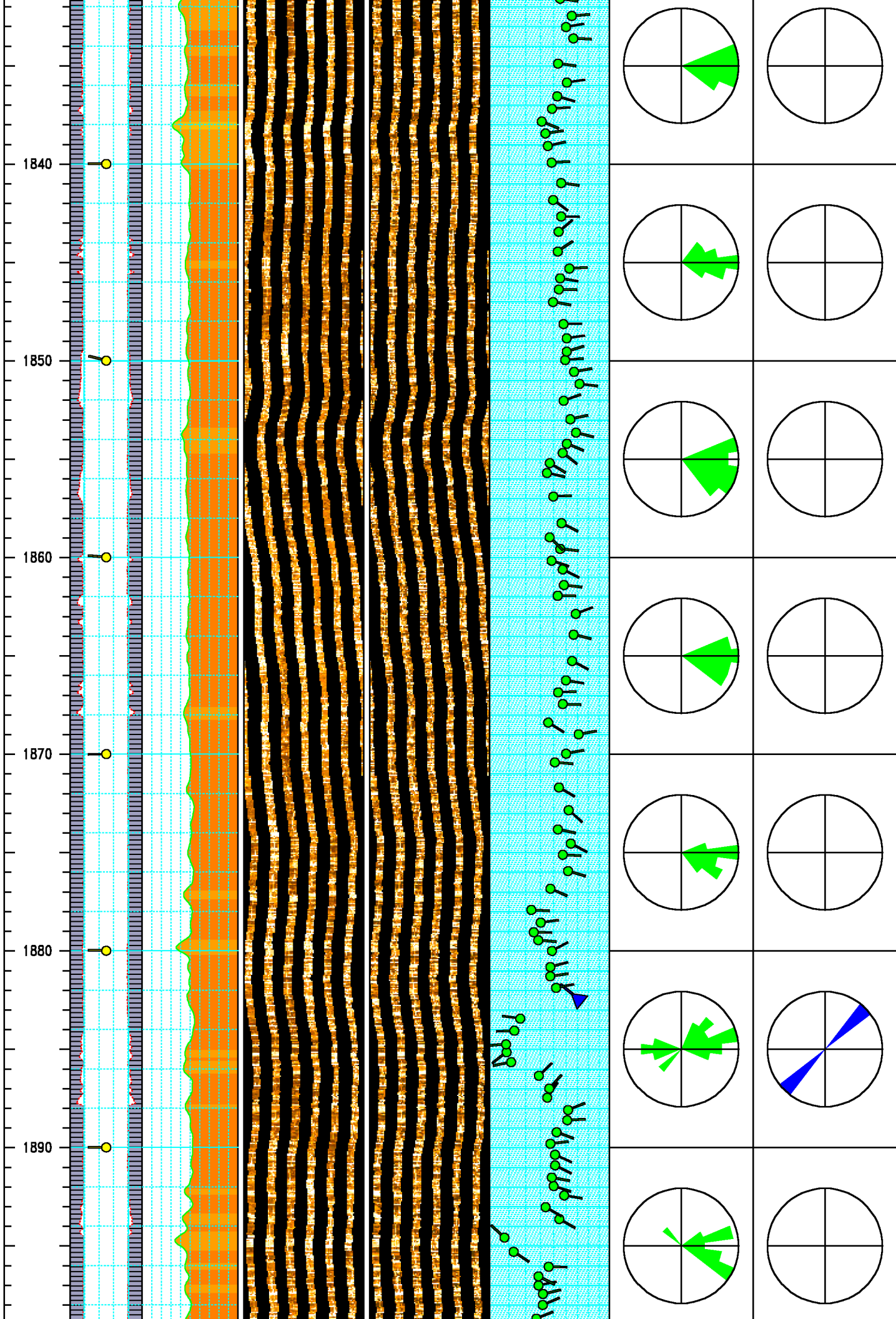


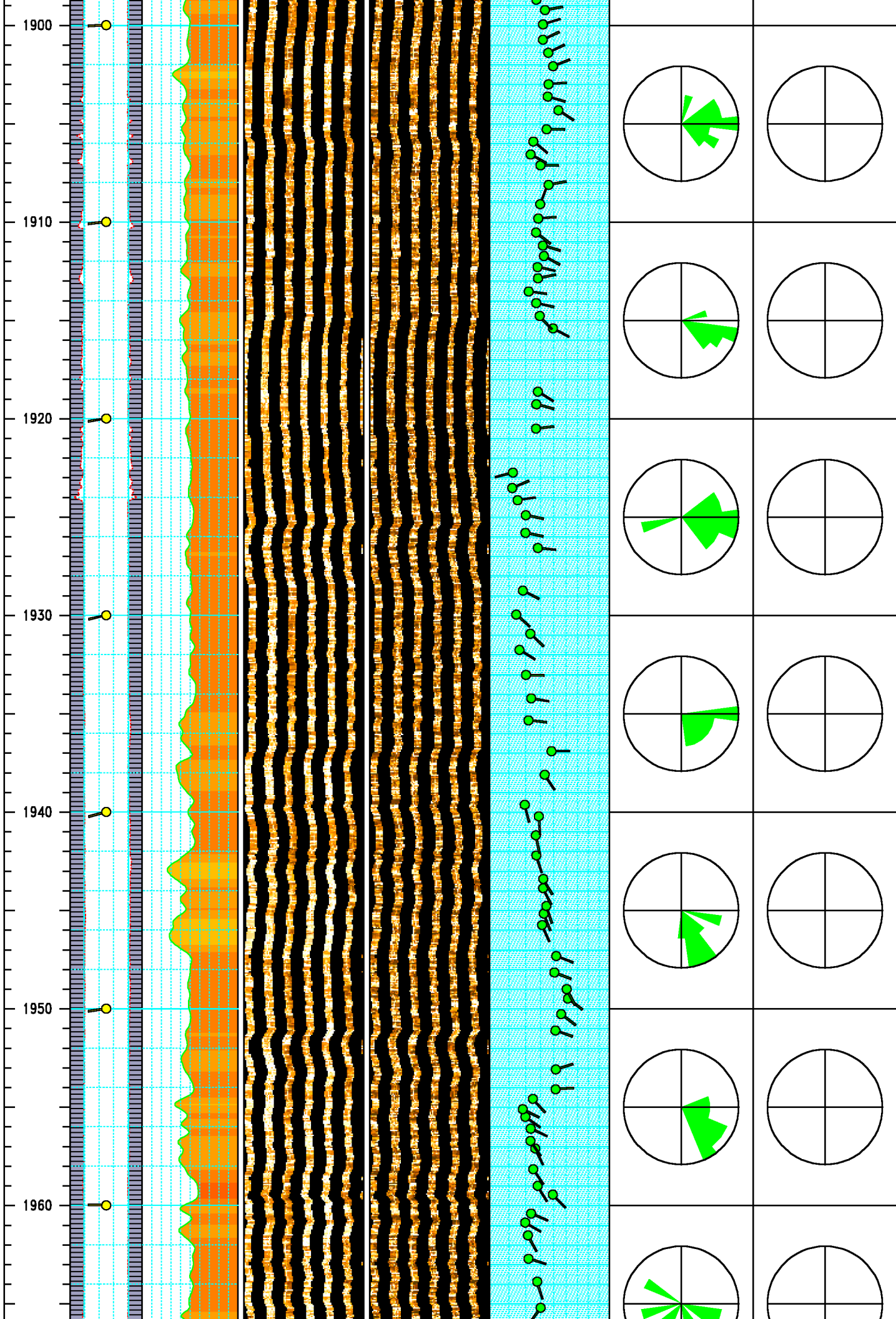


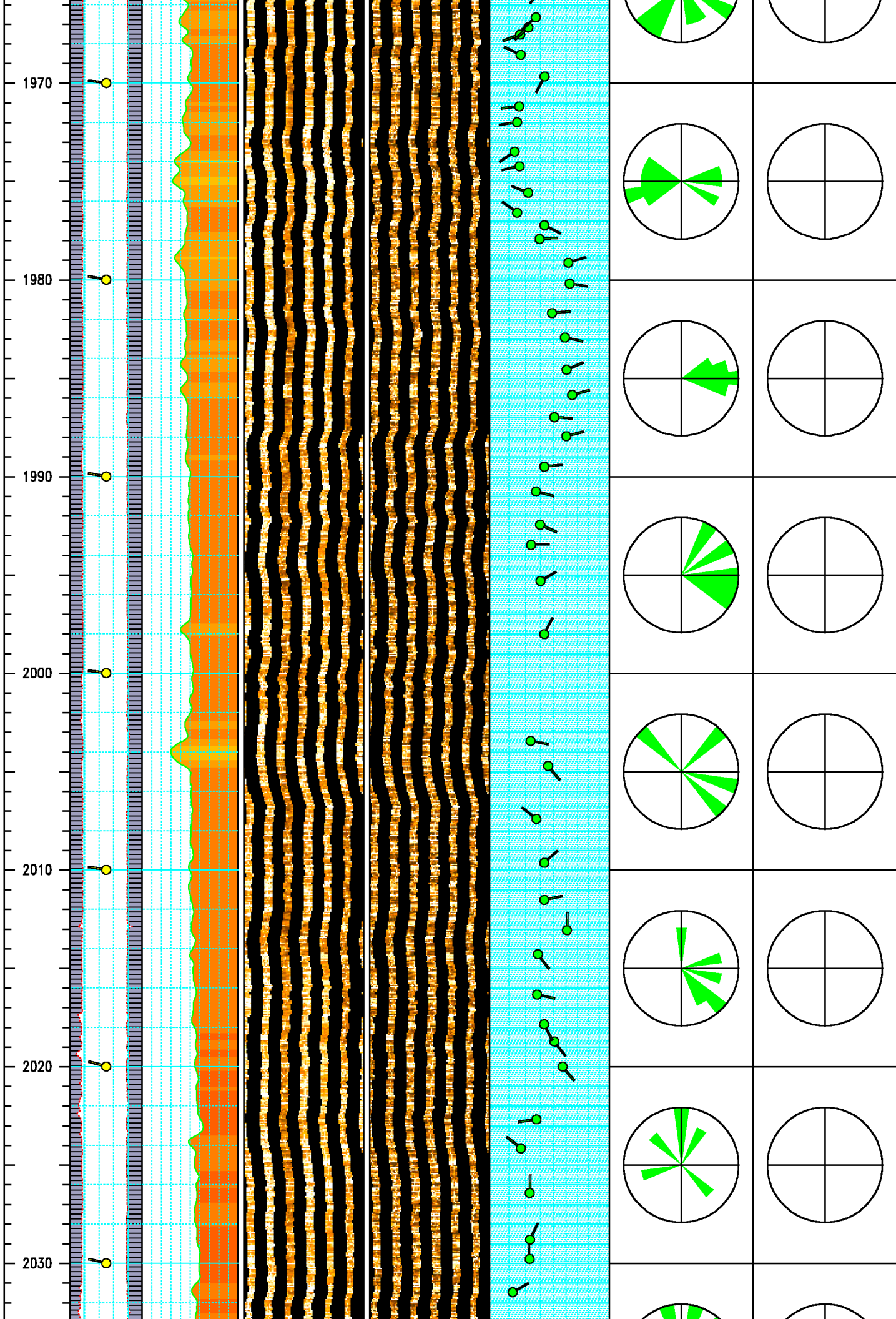


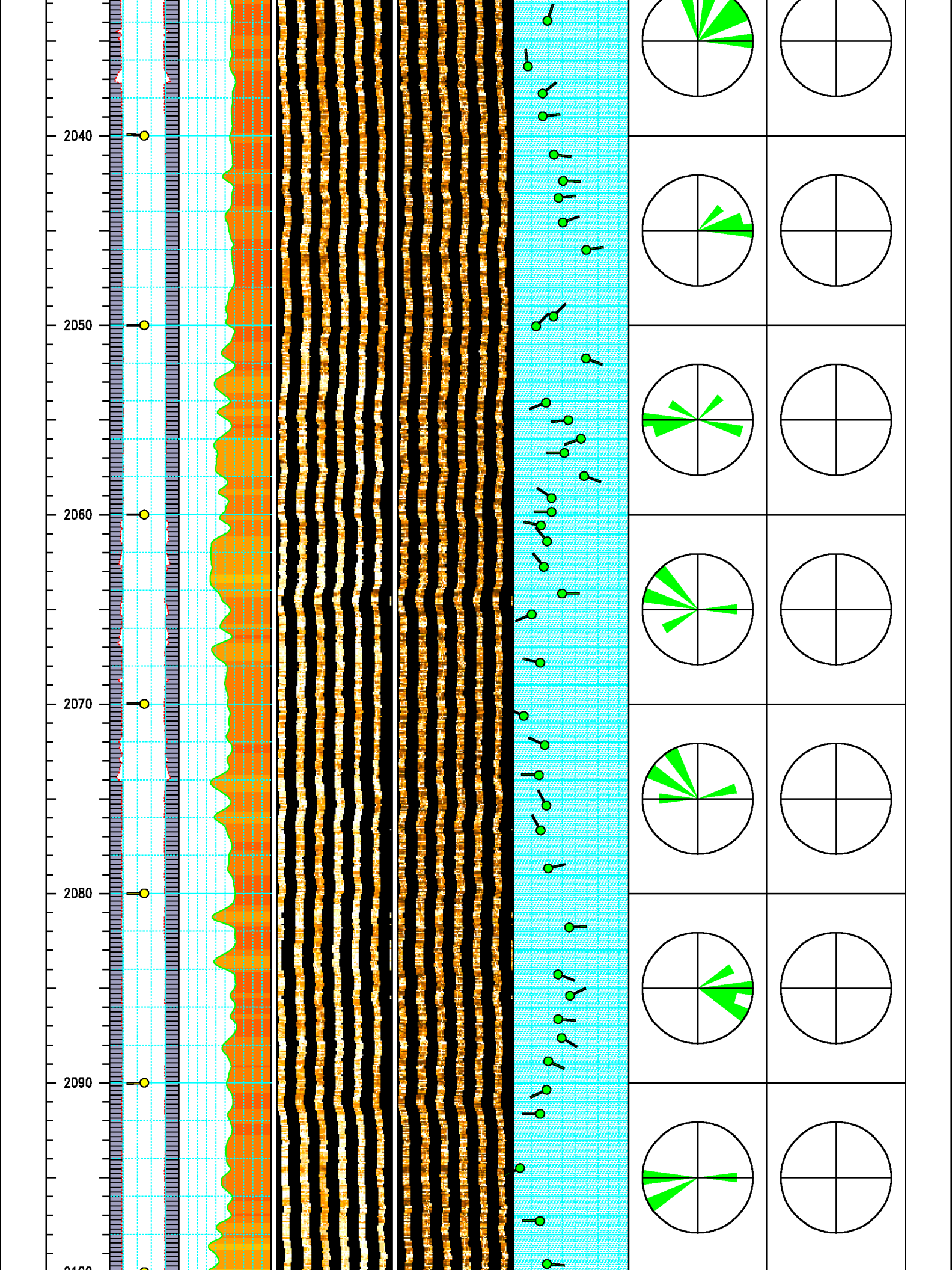


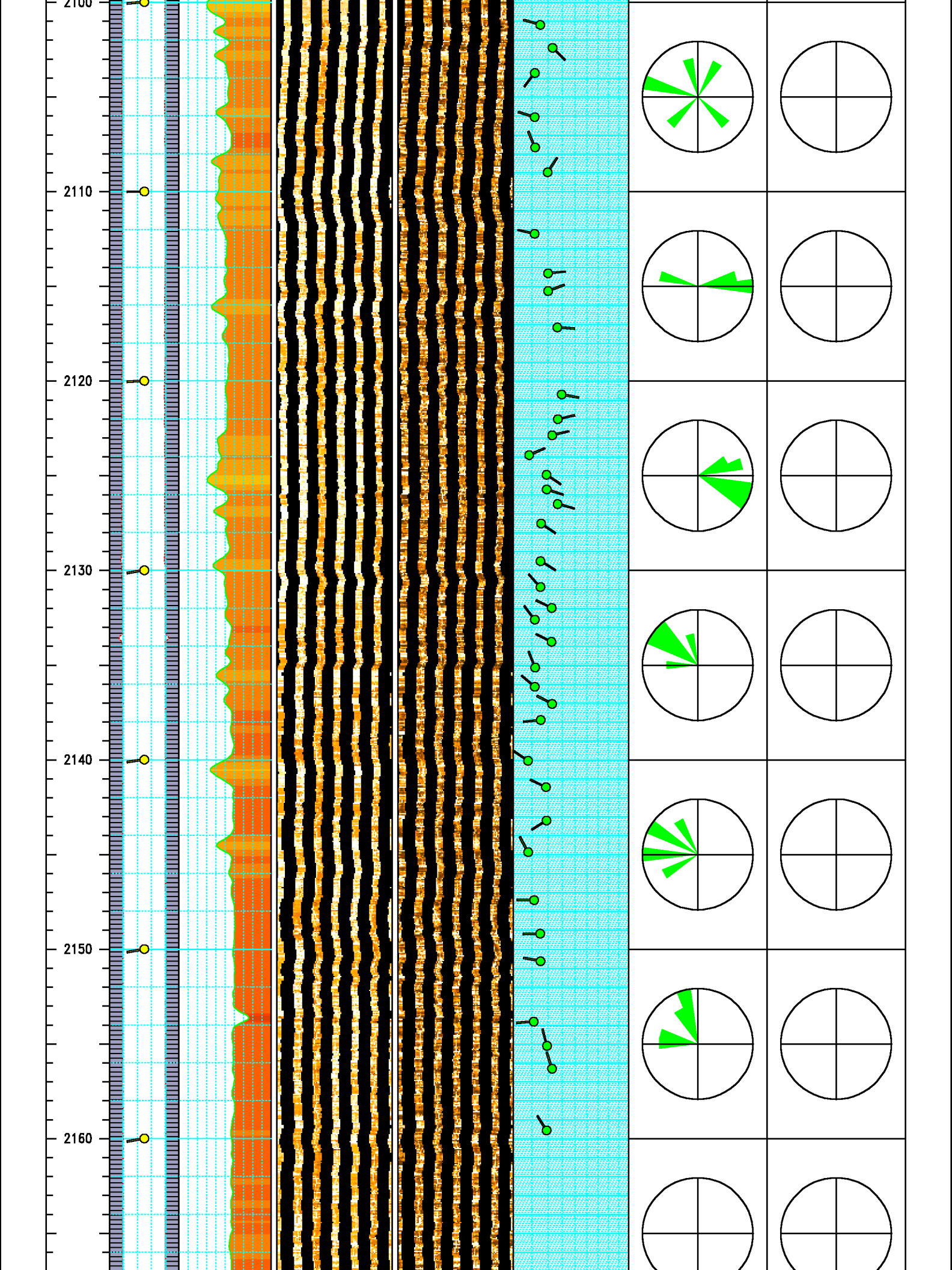


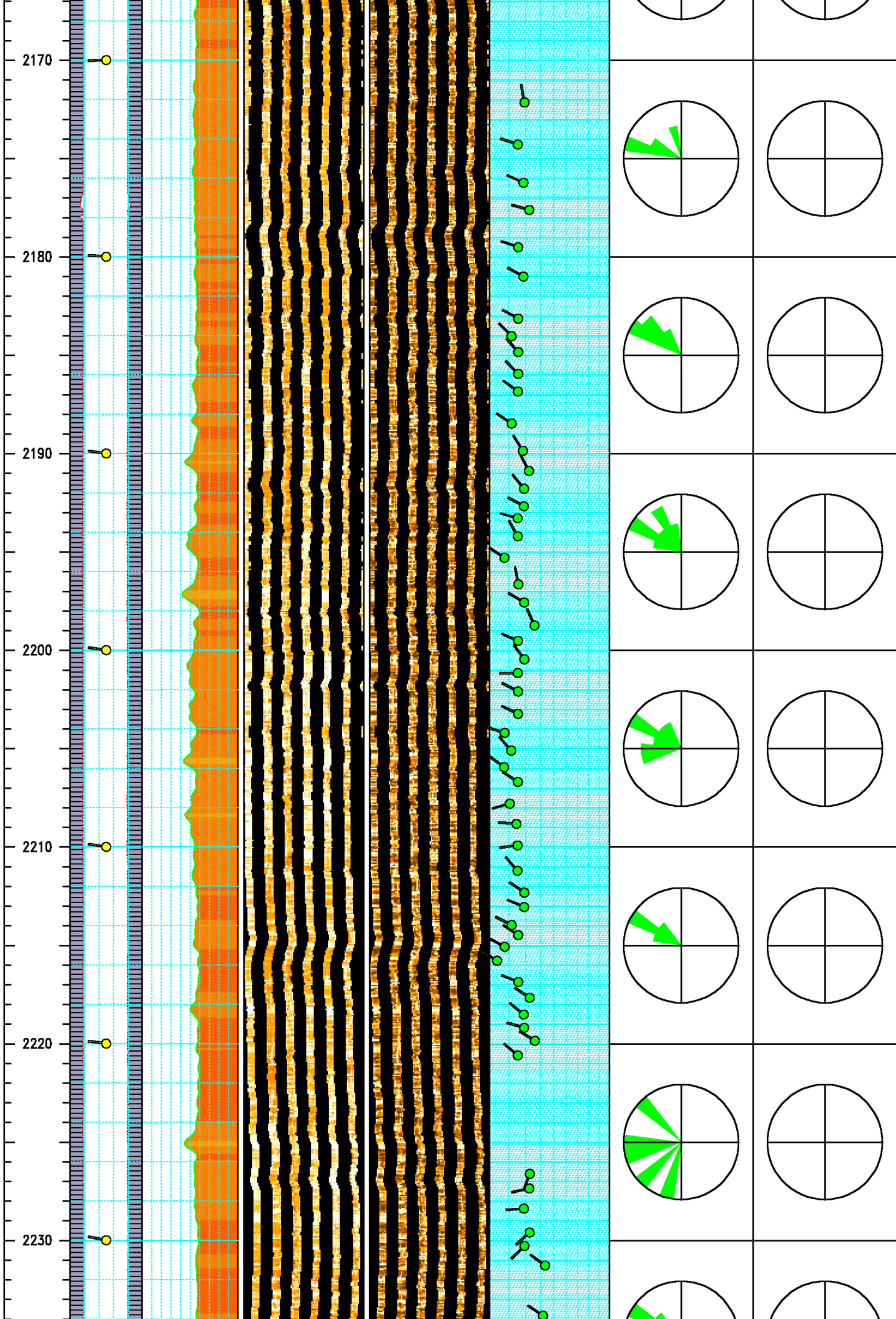


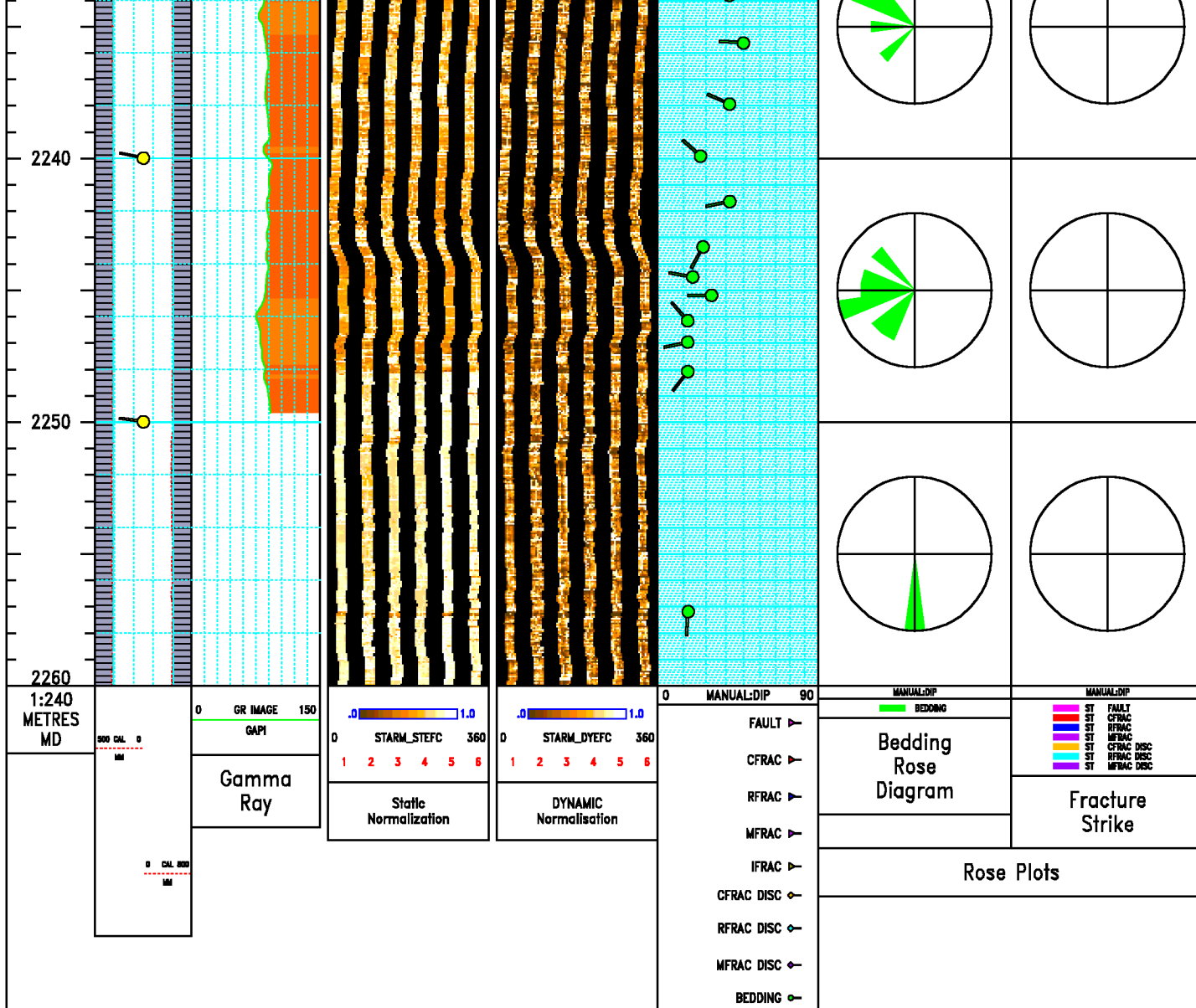












 BAKER HUGHES Baker Atlas	COMPANY <u>NALCOR ENERGY INC.</u> WELL <u>NALCOR ET AL FINNEGAN #1</u> FIELD <u>FINNEGAN</u> PROVINCE <u>NEWFOUNDLAND AND LABRADOR</u>	FILE NO: _____ API NO: _____
	LOCATION:	ELEVATIONS: KB <u>125.00 M</u> DF _____ GL <u>118.75 M</u>
	LAT <u>49.920 N</u> LONG <u>63.330 W</u>	DATE <u>02-NOV-2010</u>

