

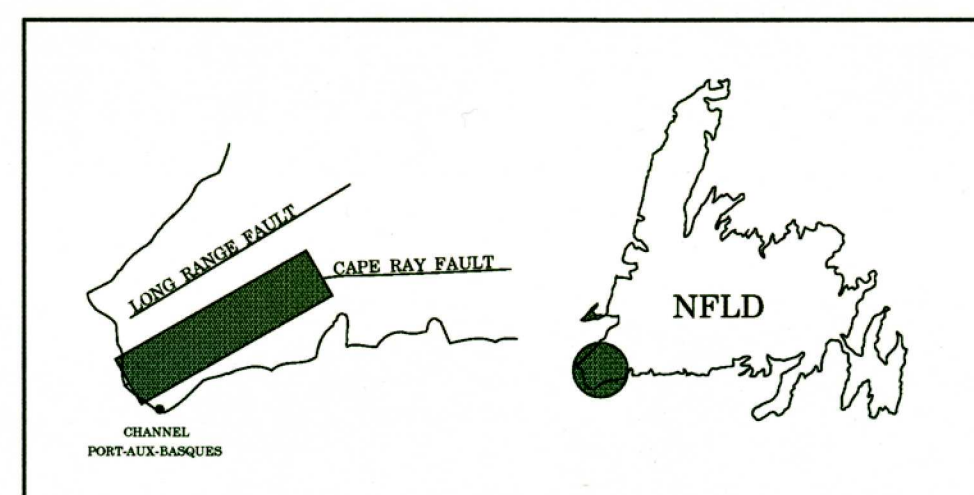
CAPE RAY FAULT ZONE SW NEWFOUNDLAND

Map produced by **Benoît Dubé and Kathleen Lauzière, 1995**

Base map digitized by L. Dubé from parts of 1:50 000 scale maps 11-O/10, 11-O/11, 11-O/14, 11-O/15

Computer graphics by M. Boutin

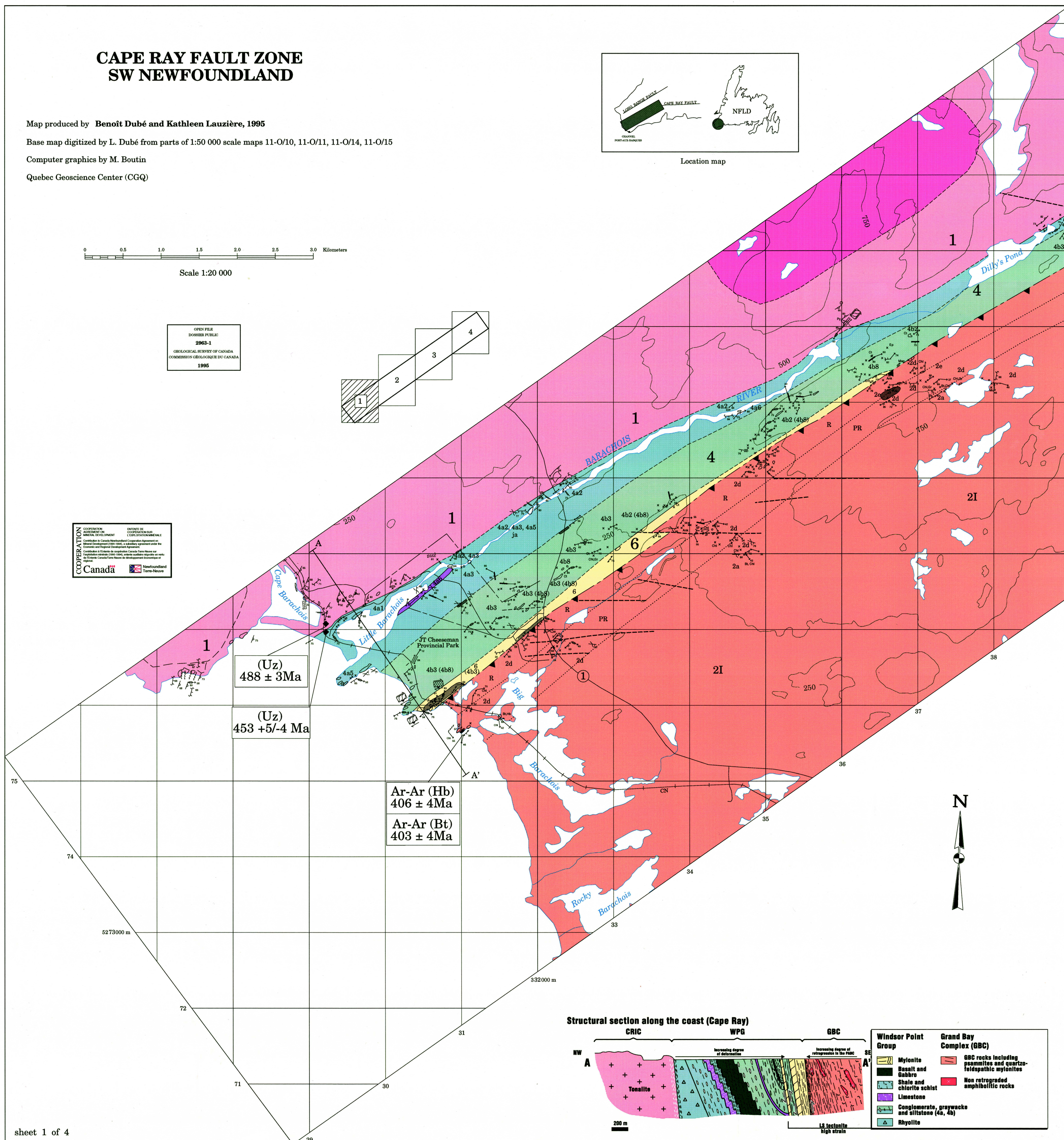
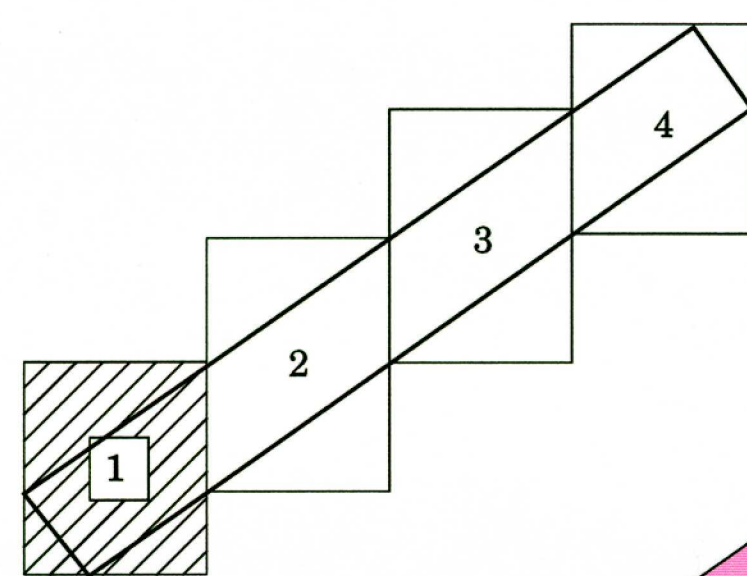
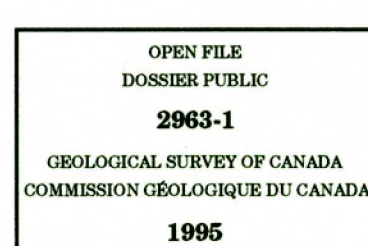
Quebec Geoscience Center (CGQ)



Location map



Scale 1:20 000



LEGEND

Post-Early to Mid Devonian

- 10** Strike-slip mylonite (in Strawberry Granite)

Early to Mid Devonian

- | | | | |
|---|------------------------|---|--|
| | Devonian granites | } | medium- to coarse-grained, equigranular to alkali feldspar-phryritic, white to red biotite granite to granodiorite |
| 9 | Isle aux Morts Granite | | |
| 8 | Strawberry Granite | | |

Late-Silurian to Early Devonian

- 7** Strike-slip mylonite (in the WPG, and/or in CRIC)
- 6** Mylonite (in the WPG)

Early Silurian

- 5** Windowglass Hill Granite (WGH)

Ordovician and Silurian

- 4 Windsor Point Group: Bimodal volcanic and volcanoclastic rocks with associated sedimentary rocks (WPG)
- 4b Windsor Point Group (Silurian)

- | | |
|-----|--|
| 4b1 | Quartz-feldspar porphyry, felsic volcanoclastics |
| 4b2 | Mafic volcanoclastics |
| 4b3 | Conglomerate, polygenic to monogenic |
| 4b4 | Greywacke, shale and pebbly sandstone |
| 4b5 | Black shale and/or graphitic shale |
| 4b6 | Limestone |
| 4b7 | Gabbro |
| 4b8 | Chlorite-sericite schist and chlorite schist |
| 4b9 | Quartz-sericite schist |

- 4a** Ordovician to Silurian (Little Barachois Formation)

- | | |
|-----|--|
| 4a1 | Rhyolite and associated pyroclastic and epiclastic rocks, locally quartz-feldspar-phyric |
| 4a2 | Polygen conglomerate with abundant felsic volcanic clasts, typically magnetic |
| 4a3 | Graywacke and siltstone |
| 4a4 | Black shale and graphitic shale |
| 4a5 | Mafic volcanic, mostly massive, locally pillowed and brecciated with magnetic jasper fragments |
| 4a6 | Limestone |
| 4a7 | Sericite and/or chlorite schist |

Silurian and older

- 9** Rose Blanche phase (Silurian)

Schistose to gneissic granitoid including tonalite, granodiorite and minor granite containing biotite and subordinate muscovite. Locally pegmatitic. Containing many country rock screens.

2 Port aux Basques Gneiss (Ordovician and older) **21** Grand Bay Complex (GBC) **211** Port aux Basques Complex (PBC)

Mainly semi-pelitic and pelitic schists, psammite and quartzo-feldspathic gneiss and mylonite, with minor amphibolite and pegmatitic intrusions

 - 2a** Semi-pelitic schist, mostly biotite-muscovite schist, locally gneissic, minor amphibolite and pegmatitic intrusions
 - 2b** Pelitic to semi-pelitic schist, psammite and phyllonite
 - 2c** Granitic gneiss
 - 2d** Quartzo-feldspathic gneiss, commonly mylonitic, includes muscovite-sericite schist
 - 2e** Amphibolite and retrograde chlorite schist
 - 2f** Chlorite and chlorite-sericite schist

Ordovician

- 1** Cape Ray Igneous Complex (CRIC)
Tonalite and other granitoid rocks with gabbroic enclaves

SYMBOLS

- | | | | |
|--|--|---|--|
| a)  | Geological boundary
a) defined, b) interpreted |  | bedding (WPG) |
|  | High-strain contact |  | S ₁₋₂ fabric
(GBC) |
|  | High-angle thrust fault | a)  b)  | S _{3a} fabric
a) WPG b) CRIC |
|  | Interpreted thrust fault | a)  b)  | S _{3b} fabric
a) GBC, b) WPG |
|  | Transitional boundary |  | mylonitic foliation (S ₄) |
|  | Strike-slip fault |  | crenulation cleavage (S ₅ -S _{5'}) |
|  | Fault |  | stretching lineation, measured on
foliation surface |
| x  | outcrop visited |  | mineral lineation, measured on
foliation surface |
|  | trench |  | intersection lineation, measured on
foliation surface |
|  | mineral showing |  | crenulation lineation, measured on
foliation surface |
|  | carbonate alteration zone | a)  b)  | shear with displacement a) unknown
b) normal |
|  | geochronological sampling,
sample location, age and
geochronological method used | | |

Abbreviations:

- | | | | | |
|-----|--------------------|----|----|----------------------------------|
| And | andalusite | | | striations on fault surface |
| ank | ankerite | | | |
| Bt | biotite | | | |
| Cal | calcite | a) | b) | c) |
| Cp | chalcopyrite | | | |
| Chl | chlorite | a) | b) | c) |
| Ep | epidote | | | |
| Fl | fluorite | | | |
| Gn | galena | | a) | b) without and c) with fold axis |
| Gr | garnet | | | |
| Gp | graphite | | | |
| Au | gold | a) | b) | c) |
| Hem | hematite | | | |
| Hb | hornblende | | | |
| ja | jasper | | | |
| ICb | Iron carbonate | | | Vein |
| Mag | magnetite | | | |
| Mu | muscovite | | | |
| Py | pyroxene | a) | b) | c) |
| P | retrograded | | | |
| PR | partly retrograded | a) | b) | c) |