

 GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

 Department of Mines and Energy

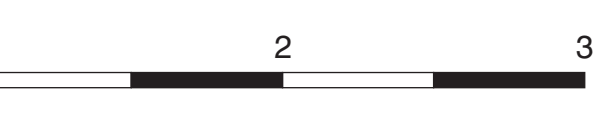
 Geological Survey

 OPEN FILE 002E/1061

 MAP 99-08

GEOLOGY OF THE EASTERN WILD BIGHT GROUP AND SOUTH LAKE IGNEOUS COMPLEX, NEWFOUNDLAND (PARTS OF NTS 2E/5, 6 AND 11)

Scale 1:25 000




Geology by K. MacLachlan, 1994-1997; additional legend information as referenced.

 Base map in digital format published by Surveys and Mapping Branch, Natural Resources Canada, Ottawa.

 Contour interval 50 feet.

 Approximate magnetic declination 1980 for centre of NTS 2E/6 was 27° 44' W, decreasing 11.8 annually.

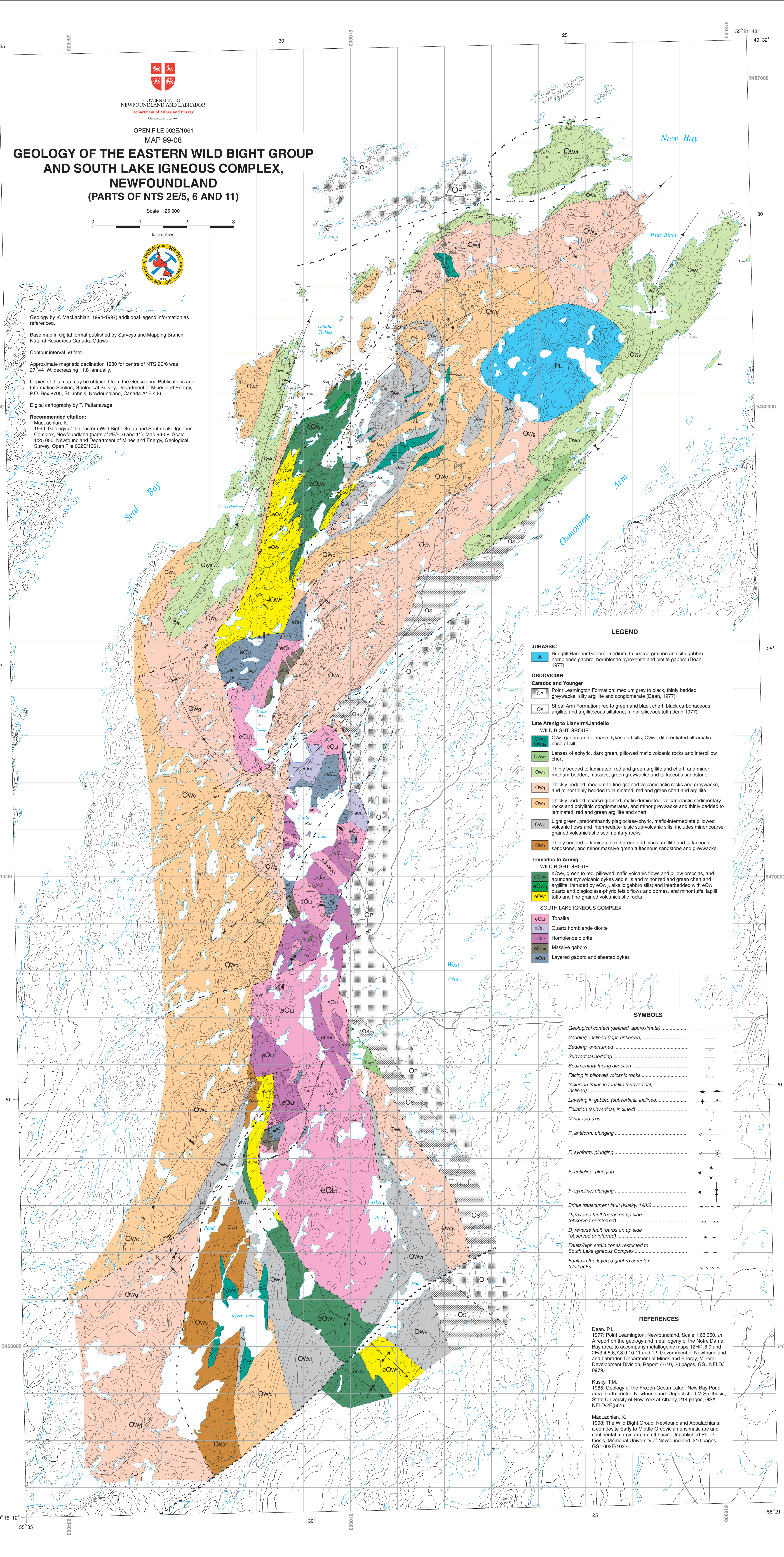
 Copies of this map may be obtained from the Geoscience Publications and Information Section, Geological Survey, Department of Mines and Energy, P.O. Box 8700, St. John's, Newfoundland, Canada A1B 4J6.

 Digital cartography by T. Paltanavage.

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 MacLachlan, K.

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LEGEND

- JURASSIC**
- JB Budgett Harbour Gabbro: medium- to coarse-grained analcite gabbro, hornblende gabbro, hornblende pyroxenite and biotite gabbro (Dean, 1977)
- ORDOVICIAN**
- Caradoc and Younger**
- Op Point Leamington Formation: medium grey to black, thinly bedded greywacke, silty argillite and conglomerate (Dean, 1977)
 - Os Shoal Arm Formation: red to green and black chert; black carbonaceous argillite and argillaceous siltstone; minor siliceous tuff (Dean, 1977)
- Late Arenig to Llanvirn/Llandeilo**
- WILD BIGHT GROUP**
- Owa Gabbro and diabase dykes and sills; Owa_v, differentiated ultramafic base of sill
 - Owv Lenses of aphyric, dark green, pillowed mafic volcanic rocks and interpillow chert
 - Owg Thinly bedded to laminated, red and green argillite and chert, and minor medium-bedded, massive, green greywacke and tuffaceous sandstone
 - Owi Thickly bedded, medium- to fine-grained volcanoclastic rocks and greywacke, and minor thinly bedded to laminated, red and green chert and argillite
 - Ows Thickly bedded, coarse-grained, mafic-dominated, volcanoclastic sedimentary rocks and polythetic conglomerates, and minor greywacke and thinly bedded to laminated, red and green argillite and chert
 - Ovt Light green, predominantly plagioclase-phyric, mafic-intermediate pillowed volcanic flows and intermediate-felsic sub-volcanic sills; includes minor coarse-grained volcanoclastic sedimentary rocks
 - Ovl Thinly bedded to laminated, red green and black argillite and tuffaceous sandstone, and minor massive green tuffaceous sandstone and greywacke
- Tremadoc to Arenig**
- WILD BIGHT GROUP**
- eOwv Green to red, pillowed mafic volcanic flows and pillow breccias, and abundant synvolcanic dykes and sills and minor red and green chert and argillite, intruded by eOwg, alkalic gabbro sills, and interbedded with eOwv quartz and plagioclase-phyric felsic flows and domes, and minor tuffs, lapilli tuffs and fine-grained volcanoclastic rocks
- SOUTH LAKE IGNEOUS COMPLEX**
- eOul Tonalite
 - eOvl Quartz hornblende diorite
 - eOvlr Hornblende diorite
 - eOvlr Massive gabbro
 - eOvlr Layered gabbro and sheeted dykes

SYMBOLS

- Geological contact (defined, approximate)
- Bedding, inclined (top unknown)
- Bedding, overturned
- Subvertical bedding
- Sedimentary facing direction
- Facing in pillowed volcanic rocks
- Inclusion trains in tonalite (subvertical, inclined)
- Layering in gabbro (subvertical, inclined)
- Foliation (subvertical, inclined)
- Minor fold axis
- F₁ antiform, plunging
- F₂ synform, plunging
- F₃ anticline, plunging
- F₄ syncline, plunging
- Brittle transcurent fault (Kusky, 1985)
- D₁ reverse fault (bars on up side (observed or inferred))
- D₂ reverse fault (bars on up side (observed or inferred))
- Faults/high strain zones restricted to South Lake Igneous Complex
- Faults in the layered gabbro complex (Unit eOul)

REFERENCES

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- Kusky, T.M.

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 1998: The Wild Bight Group, Newfoundland Appalachians: a composite Early to Middle Ordovician ensimatic arc and continental margin arc-arc rift basin. Unpublished Ph.D. thesis, Memorial University of Newfoundland, 210 pages. GSF 002E/1022.