

DISCUSSION NOTES

INTRODUCTION
This map was prepared as part of a project to map the geology of the northern part of the Canadian Shield...

Geological background
The geological background of the area is described in detail, including the various geological units and their relationships...

METAMORPHISM
Metamorphism is described in terms of the various grades and facies, including the conditions of temperature and pressure...

ECONOMIC NOTES
This section discusses the potential economic significance of the geological features, including mineral resources...

MAP UNITS
Detailed descriptions of the map units are provided, including their names, symbols, and geological characteristics...

QUANTITATIVE DATA
This section provides quantitative data for the various geological units, including their thicknesses and areal extents...

ACKNOWLEDGMENTS
The author expresses his appreciation to the various individuals and organizations that assisted in the preparation of this map...

REFERENCES
A list of references is provided, including books, articles, and reports that were consulted during the preparation of this map...

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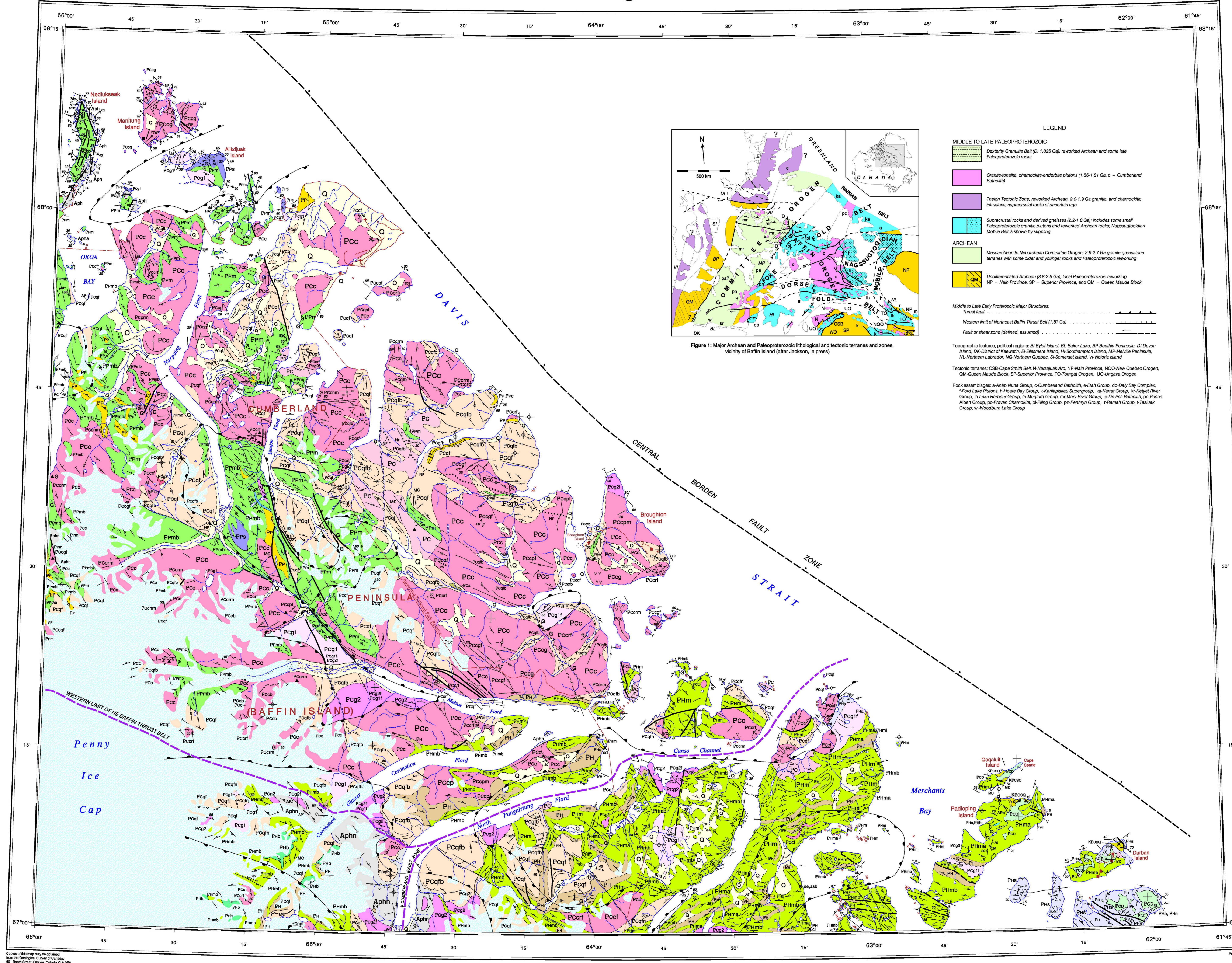
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OPEN FILE 9532 GEOLOGY

OKOA BAY - PADLOPING ISLAND AREA DISTRICT OF FRANKLIN NORTHWEST TERRITORIES

Scale 1:250 000 - Echelle 1:250 000

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LEGEND
Relative ages of some map units are uncertain and individual units may contain rocks of other units.

QUATERNARY
Q Unconsolidated clay to coarse gravel and boulder material, chiefly glacial till, partly reworked by stream and alluvial fans, some of glacial origin, locally abundant terminal and lateral moraines, kames, mounds, and other glacial features.

PALEOCENE
PcD CAFE D'EAU FORMATION (Basal beds, flow and ash, upper member 200 m) subaerial basalt, flow and ash, light to dark grey, vesicular and argillaceous, base member 20 m, subaerial, basaltic, flow and ash, light to dark grey, vesicular, with coarse basalt and thin orange units, giant cross beds up to 70 m thick, irregular, 10 to 20 m, 10 m.

EARLY TO LATE CRETACEOUS PALEOCENE
KPCaD DUALGILIT FORMATION (Early to Late Cretaceous) Mostly subaerial, quartzites, 125 m thick, rock bedded to laminated, coarse cross beds and dip-sloping, upper member yellow weathering, with minor the garnet sandstones, siltstone, clay deposited in ring-shaped and locally irregularly shaped depressions, and coarse and overbank flyschites, lower member, white weathering and contains minor laminated sandstone and siltstone, deposited in coarsening seaward, expressed as a progradation sequence of alluvial plain facies.

MESOPROTEROZOIC
MEC ANGLIAN UNCONFORMITY TO DISCONFORMITY
DUALGILIT FORMATION (Early to Late Cretaceous) Mostly subaerial, quartzites, 125 m thick, rock bedded to laminated, coarse cross beds and dip-sloping, upper member yellow weathering, with minor the garnet sandstones, siltstone, clay deposited in ring-shaped and locally irregularly shaped depressions, and coarse and overbank flyschites, lower member, white weathering and contains minor laminated sandstone and siltstone, deposited in coarsening seaward, expressed as a progradation sequence of alluvial plain facies.

ARCHAIC
MEC Metaclean to Neoproterozoic Complex, 2.9 to 2.7 Ga granitic gneiss, gneiss, and amphibolite with some older and younger rocks and Paleoproterozoic reworking and magmatism.

UNDIFFERENTIATED ARCHAIC
U Un differentiated Archaic 3.8 to 3.5 Ga, local Paleoproterozoic reworking, NP - Nain Province, SP - Superior Province, and QM - Queen Maud Block.

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