

LEGEND

SURFICIAL DEPOSITS

QUATERNARY

POSTLAST GLACIATION

NONGLACIAL ENVIRONMENT

FLUVIAL SEDIMENTS: gravel and sand 2-20 m thick, deposited on floodplains

6b Seasonally flooded sediments

6a Terraced sediments above present flood zone

MARINE SEDIMENTS: gravel, sand, silt, and clay, 1-20 m thick, deposited in deltaic, nearshore, and beach environments during regression of the eustatic sea

5c Beach sediments: gravel and sand, 1-5 m thick, forming ridges and swales

5b Nearshore sediments: silt and fine sand, 1-5 m thick, forming plains

5a Deltaic sediments: coarsening upward sequences of clay, silt, sand, and gravel, 5-20 m thick, with flat, terraced, or dissected surfaces

LAST GLACIATION

PROGLACIAL AND GLACIAL ENVIRONMENT

GLACIOMARINE SEDIMENTS: clay, silt, sand, and gravel, 1-100 m thick, deposited in deltaic and nearshore environments while the sea was at or near marine limit

4b Nearshore sediments: silt, clay silt, and fine sand, 1-100 m thick, with flat, highly dissected, or gullied surfaces

4a Deltaic sediments: coarsening upward sequences of clay, silt, sand, and gravel, 5-20 m thick, with flat, channelled, terraced, kettled, or dissected surfaces; formed at marine limit

3 GLACIOFLUVIAL SEDIMENTS: silt and sand, 1-5 m thick, deposited in small glacier-dammed lakes, forming flats

GLACIOFLUVIAL SEDIMENTS: gravel and sand, 1-100 m thick, deposited behind, at, and in front of the ice margin

2b Proglacial outwash: gravel and sand, 1-10 m thick, deposited on floodplains

2a Kames, kame moraines, and crevasse fillings: gravel and sand, 10-100 m thick, forming conical hills and ridges

GLACIAL ENVIRONMENT

TILL: nonsorted debris, 0.5-20 m thick, dominantly lodgment till

1b Till lenses: 0.5-2 m thick and discontinuous, surface mimics form of underlying rock surface

1a Till blanket: 2-20 m thick, gently rolling surface, fluted and drumlinized in places

ROCK

PRE-QUATERNARY

Rb Consolidated sedimentary rocks: limestone and dolomite with minor sandstone, lower Paleozoic age; upper half metre or so frost shattered

Ra Igneous and metamorphic rocks: gneiss and granite of Precambrian age; joint blocks slightly displaced by frost heave, but essentially unweathered

Geological boundary
 Compositional bands forming low strike ridges in metamorphic rocks
 Beds forming low strike ridges and cusets in sedimentary rocks (approximate direction of dip known, unknown)
 Depressional lineament along fractures in bedrock
 Cliff in bedrock
 Buried valley
 Slatice (ice flow direction known, unknown)
 Ice moulded bedrock form (crag and tail, large rocke moutonnée, rock drumlin)
 Crag and tail (hill tail)
 Fluting in till
 Undissected drift lineament
 End moraine ridge (major, minor)
 Ice-contact face
 De Geer moraines
 Easter (direction of flow inferred)
 Small conical gravel hill (kame)
 Subglacial meltwater channel, 5-60 m deep in bedrock and till
 Lateral meltwater channel, 1-5 m deep in bedrock and till; bard on upslope side
 Marine limit
 Proglacial lake at readline
 Thin patches of very bouldery till

Geology by A.N. Boyell, K.A. Drablosky and J.A. Nettleton, 1976, and by A.S. Dyke, 1978, 1979

To accompany Memor 407 by A.S. Dyke

Geological cartography by the Geological Survey of Canada

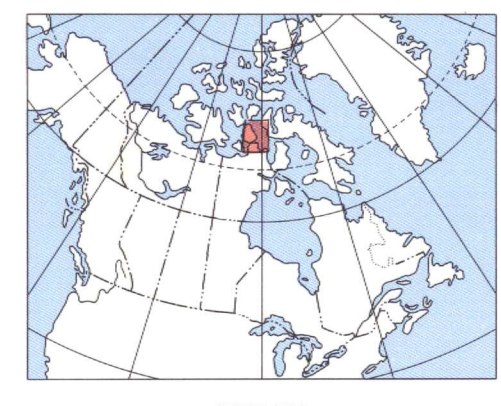
Base map assembled by the Geological Survey of Canada from maps published at the same scale by the Surveys and Mapping Branch in 1968, 1969, 1975 and 1979

Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario K1A 0E9

Magnetic declination 1982 varies from 2°40' West in the southeast corner to 1°35' West in the northwest corner. The magnetic compass is very erratic in this area.

Elevations in feet above mean sea level

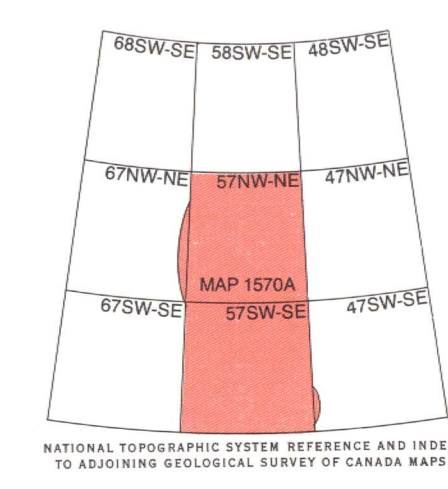
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MAP 1570A
 SURFICIAL GEOLOGY
BOOTHIA PENINSULA
 NORTHWEST TERRITORIES
 Scale 1:500 000

Kilometres 0 8 16 24 32
 Miles 0 5 10 15

Transverse Mercator Projection
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 BOOTHIA PENINSULA
 NORTHWEST TERRITORIES