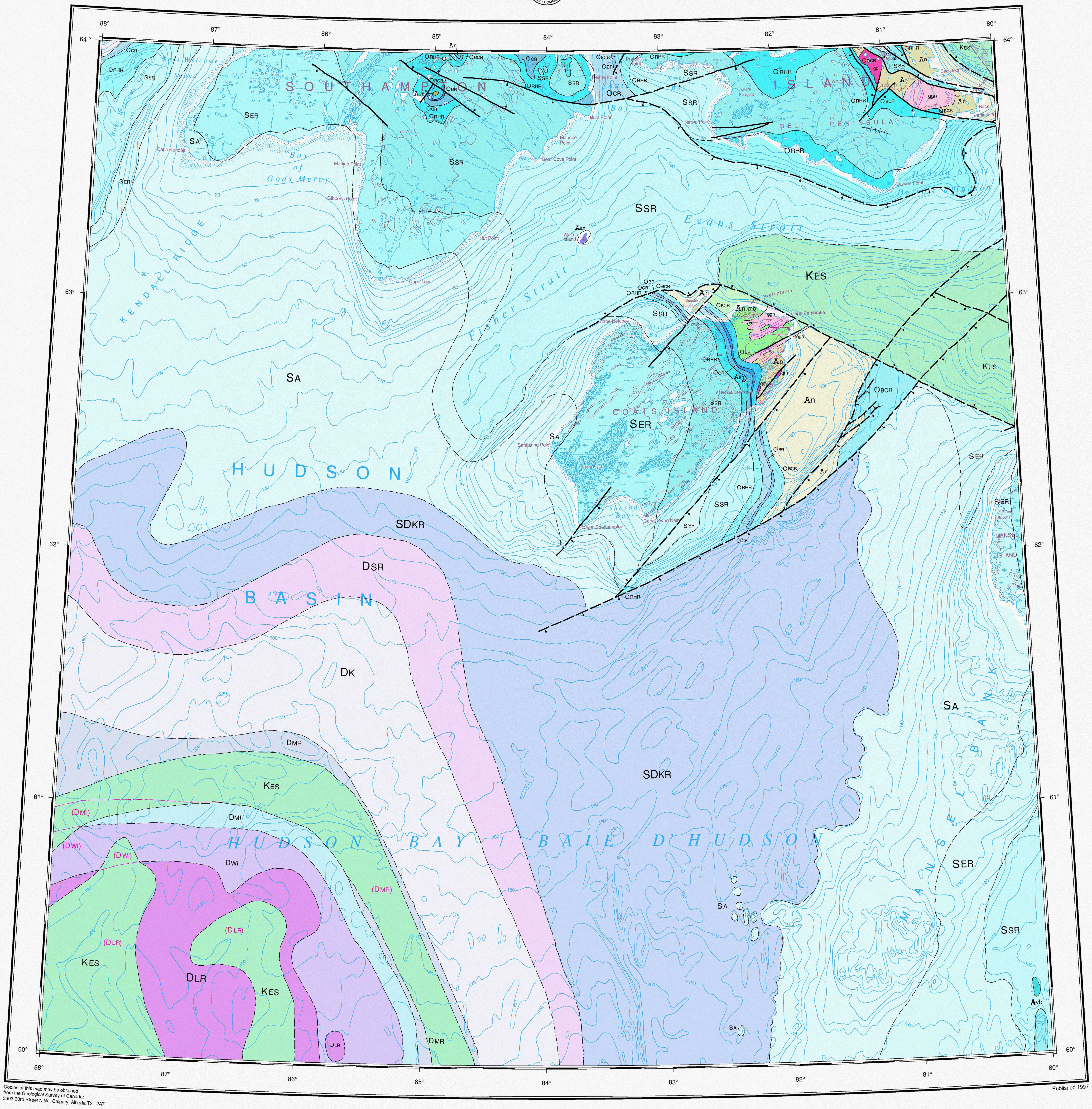
Natural Resources Canada / Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA



Copies of this map may be obtained from the Geological Survey of Canada: 3303-33rd Street N.W., Calgary, Alberta T2L 2A7

LEGEND

MESOZOIC
CRETACEOUS
LOWER CRETACEOUS

- KES — *EVANS STRAIT FORMATION*

PALEOZOIC
DEVONIAN
UPPER DEVONIAN

- DLR (DLR) — *LONG RAPIDS FORMATION* / *subsurface*

MIDDLE DEVONIAN

- DWI (DWI) — *WILLIAMS ISLAND FORMATION* / *subsurface*
- DMI (DMI) — *MURRAY ISLAND FORMATION* / *subsurface*
- DMR (DMR) — *MOOSE RIVER FORMATION* / *subsurface*
- DK — *KWATABOAHEGAN FORMATION*

LOWER DEVONIAN

- DSR — *STOOPING RIVER FORMATION*

SILURIAN AND DEVONIAN
UPPER SILURIAN AND LOWER DEVONIAN

- SDKR — *KENOGAMI RIVER FORMATION*

LOWER SILURIAN

- SA — *ATTAWAPISKAT FORMATION*
- SER — *EKWAN RIVER FORMATION*
- SSR — *SEVERN RIVER FORMATION*

ORDOVICIAN
UPPER ORDOVICIAN

- ORHR — *RED HEAD RAPIDS FORMATION*
- OCR — *CHURCHILL RIVER GROUP*
- OBR — *BOAS RIVER FORMATION*
- OBCR — *BAD CACHE RAPIDS GROUP*

PHANEROZOIC

PALEOPROTEROZOIC (APHEBIAN)
CAPE SMITH BELT (?)

- Avb — *mafic volcanic rocks and associated intrusions (possibly correlative with POVUNGNITUK GROUP)*

PROTEROZOIC

NEOARCHEAN AND/OR PALEOPROTEROZOIC (APHEBIAN)
(relative ages uncertain)

- *undifferentiated Precambrian rocks*
- gd — *granodiorite, pegmatite plutons, dyles and sills*
- qm — *quartz monzonite*
- ggn — *felsic to intermediate undifferentiated granitoid gneiss, migmatite and plutonic rocks*

ARCHEAN AND/OR PROTEROZOIC

NEOARCHEAN
(relative ages uncertain)

- Aan — *anorthosite*
- An — *layered gneiss*
- An-mb — *layered hornblende biotite gneiss*
- Avb — *basic and intermediate metavolcanic rocks; minor diorite*

ARCHEAN

Geological boundary (approximate, assumed)
Geological boundary (subsurface)
Geological boundary (gradational)
Lineament
Gneissic or mylonitic foliation (approximate, assumed)
Fault, displacement unknown (approximate, assumed)
Normal fault, solid circle on hanging wall (approximate, assumed)

Geological compilation by B.V. Sanford and A.C. Grant, 1994 and A.V. Okulitch and A.G. Lemay, 1997

Geological cartography and data digitization by A.G. Lemay and A.V. Okulitch, Geological Survey of Canada (Calgary) and Hughes Aircraft of Canada, Ltd., Calgary

Digital image processing by A.V. Okulitch Geological Survey of Canada (Calgary)

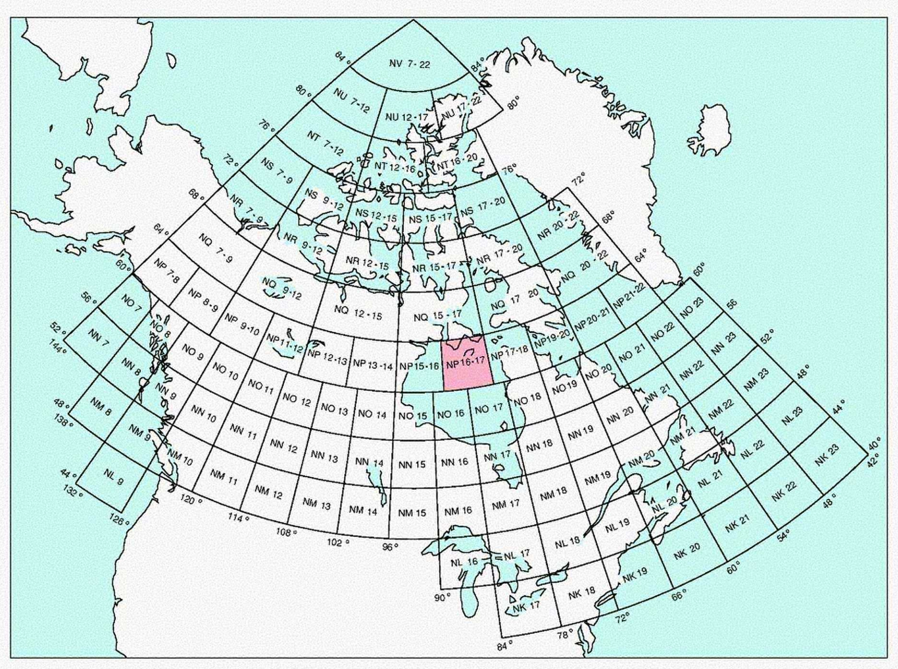
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

PUBLICATION NOTE

The Geological Atlas of Canada is being published in substandard preliminary form to make map data available quickly and because there are no resources for traditional A - series printing. Release on open file does not provide the fine detail of bedrock geology, the geotectonic correlation charts, supplementary maps of physiography, metamorphism, lithotectonic elements, compilation sources, references, etc. that comprise a complete Atlas set. A French edition is available on special order only.

In addition to this open file map, base and geological map data are available in digital form by special order in a variety of file formats (dwg, dxf, ps) and media (diskette, Iomega Zip).

Although every effort has been made to ensure accuracy, this Open File Map has not been edited for conformity with Geological Survey of Canada standards.



INDEX TO INTERNATIONAL MAP OF THE WORLD
1:1 000 000 SCALE SHEETS

THE NATIONAL EARTH SCIENCE SERIES
GEOLOGICAL ATLAS
GENERAL CO-ORDINATOR: A.V. OKULITCH

MAP NP-16/17-G

SHEET 1

BEDROCK GEOLOGY

SUTTON RIVER

DISTRICTS OF KEEWATIN AND FRANKLIN

NORTHWEST TERRITORIES

Scale 1:1 000 000

Kilometres 25 0 25 50 75 Kilomètres

Lambert Conformal Conic Projection
Standard Parallels 60° 40'N and 63° 20'N

Base map at the same scale, published by Surveys and Mapping Branch in 1975. Bathymetry from National Earth Earth Science Series Map NP 16-17-B, published by the Canadian Hydrographic Service in 1986, and from data compiled by B.V. Sanford in 1990. Not to be used for navigation.

Elevations and depths in metres above and below sea level

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Natural Resources Canada, Ottawa, Ontario, K1A 0E8

This 1:1 000 000 scale map is part of the Geological Atlas of Canada and is plotted on the International Map of the World (IMW) base. Bedrock geology is one parameter being published in the National Earth Science Series

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GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

Sheet 1, Map NP-16/17-G, Bedrock Geology

Recommended citation:
Sanford, B.V., Grant, A.C., Okulitch, A.V. and Lemay, A.G. (compilers)
1997: Geology, Sutton River, Districts of Keewatin and Franklin, Northwest Territories, Geological Atlas of Canada Map NP - 16/17 - G, scale 1:1 000 000. Geological Survey of Canada, Open File 3522.

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