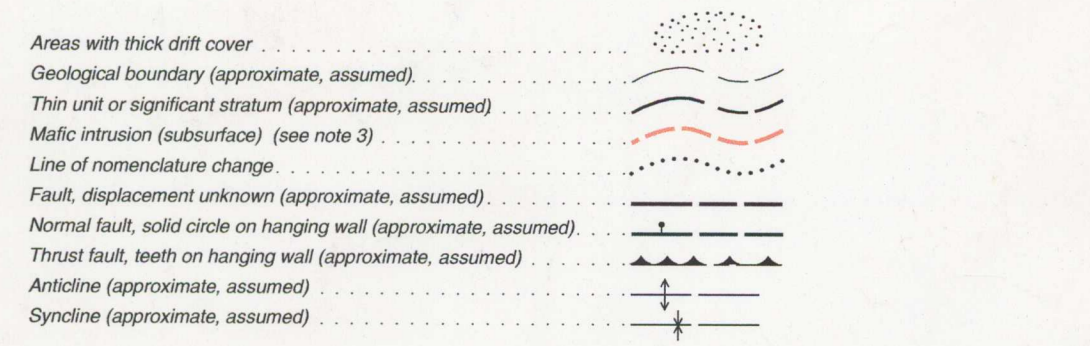


LEGEND

CENOZOIC	PHANEROZOIC
QUATERNARY	UPPER CAMBRIAN AND LOWER OROZOIC
TQs BEAUFORT AND WORTH POINT FORMATIONS (Quaternary sediments)	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
PLIOCENE AND PLEISTOCENE	C-01m FRANKLIN MOUNTAIN FORMATION (upper member)
TOwP WORTH POINT FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
TERTIARY/NEOGENE	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
m-Nb BEAUFORT FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
MESOCENE AND CENOZOIC	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
KTES EURIKA SOUND GROUP	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
MESOCENE	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Ks LANGTON BAY TO KANGLUK FORMATIONS	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
UPPER CRETACEOUS	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
KK KANGLUK FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Km MASON RIVER FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Ksh SMOCKING HILLS FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
LOWER CRETACEOUS	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
AL-KC CHRISTOPHER FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
KHr HORTON RIVER FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Ki ISACHSEN FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
KLB LANGTON BAY FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
PALEOZOIC	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
DEVONIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Dh HARE INDIAN FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
MIDDLE DEVONIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Dh HUME FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Dm BEAR ROCK FORMATION	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
SILURIAN AND DEVONIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
SDho HEAD BAY GROUP	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
OROZOIC AND SILURIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
OSc CARBONATE (CORNWALLS GROUP AND ALLEN BAY, CAPE STORM AND MOUNT KINCLE FORMATIONS equivalent)	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
CAMBRIAN TO DEVONIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
UPPER CAMBRIAN TO LOWER DEVONIAN	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
C-0c FRANKLIN MOUNTAIN AND BEAR ROCK FORMATIONS	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
OROZOIC	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
LOWER OROZOIC	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Oct FRANKLIN MOUNTAIN FORMATION (upper member)	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Oct FRANKLIN MOUNTAIN FORMATION (lower member)	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)
Oct FRANKLIN MOUNTAIN FORMATION (lower member)	C-01m FRANKLIN MOUNTAIN FORMATION (lower member)

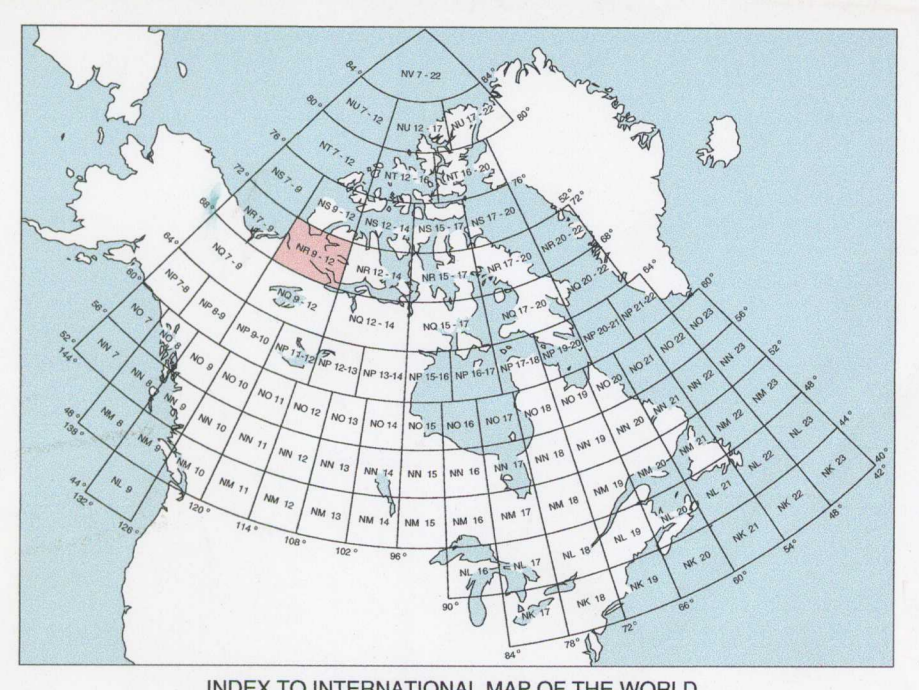


NOTE 1
Submarine and subglacial units, contacts and structures are mostly hypothetical, having been extrapolated from adjacent exposed geology and constrained by sparse geophysical and well data only in Amundsen Gulf. Interpretations of such data are preliminary and subject to considerable revision. Extrapolations of geology are current working hypotheses only.

NOTE 2
Petroferrous dolomite, a lithology characteristic of only the Devonian Bear Rock Formation, was noted by Craig, et al. (1980) at these two localities. Later investigations (T. Jones, personal communication, 1999) failed to substantiate such a lithology at the western occurrence at Tronnes Point. The outcrop on Crocker River was not examined.

NOTE 3
Linear aeromagnetic anomalies on maps provided by Continental Geoscientific Division, Geological Survey of Canada, have been tentatively interpreted as Proterozoic sills and dykes. Those on Victoria Island may be part of the Neoproterozoic (720 Ma) Franklin igneous event. North-northeast trending anomalies and prominent drainage lineaments in and northeast and south-west of Digby and Union Strait may be related to the Mesoproterozoic (1287 Ma) Mackenzie dyke swarm. Aeromagnetic evidence for these dykes in Coronation Gulf is presumably masked by sills of the Franklin event.

PUBLICATION NOTE
This map replaces Sheet 1 of 3 of the following publication:
Okulitch, A.V. (compiler), 1992. Geology, Horton River, Mackenzie-Franklin, Geological Survey of Canada, Geological Atlas, Map NR-9/10/11/12-G, scale: 1:1 000 000 (National Earth Science Series).
Revision and publication of sheets 2 and 3 will follow.



GEOLOGICAL ATLAS, MAP NR-9/10/11/12-G
SHEET 1
GEOLOGY
HORTON RIVER
NORTHWEST TERRITORIES - NUNAVUT
GENERAL CO-ORDINATOR: A.V. OKULITCH
Scale 1:1 000 000
Kilometres 0 25 50 75 Kilometres
Lambert Conformal Conic Projection
Standard Parallels 68° 40'N and 71° 20'N
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Geological compilation by A.V. Okulitch, 1990; revised with the assistance of C.W. Jefferson, D.G. Cook, R.H. Rainbird, T.A. Jones and W. Miles, 1999
Compilation assisted by K. McInnes, A.J. Zolnai and J. Gregory
Bathymetric revisions assisted by J. Warren and W.S. Crother, Canadian Hydrographic Service
Critical review by R.L. Christie, D.G. Cook, J.D. Atken and C.W. Jefferson, Geological Survey of Canada
Data digitization by Dataspan Technology Ltd., Calgary (now Hughes Aircraft, Ltd., Calgary) and A.V. Okulitch, Geological Survey of Canada
Geological cartography by A.V. Okulitch, Geological Survey of Canada
Digital image processing by Richard Salem, Handi-Can Consultants, Ottawa and A.V. Okulitch, Geological Survey of Canada, Vancouver

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COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
FEBRUARY, 2000

Base map at the same scale, published by Surveys and Mapping Branch in 1976 with bathymetry updated to 1980.
Elevations and depths in metres above and below sea level. Not to be used for navigation.
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. Geology is one parameter being published in the National Earth Science Series.

Sheet 1, Map NR-9/10/11/12-G, Bedrock Geology
Recommended citation:
Okulitch, A.V. (compiler),
2000. Geology, Horton River, Northwest Territories - Nunavut, Geological Survey of Canada, Map NR-9/10/11/12-G, scale: 1:1 000 000. Open File 3845 (National Earth Science Series, Geological Atlas)

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