GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

LEGEND

CENOZOIC

TERTIARY
Tv — *Volcanic rocks*

MESOZOIC

CRETACEOUS
K — *Shale, siltstone, and sandstone*

CRETACEOUS
Kg — *Granitic intrusive rocks*

MESOZOIC
Mz — *Shale, siltstone, and sandstone*

DEVONIAN AND MISSISSIPPIAN
UPPER DEVONIAN TO MISSISSIPPIAN
DMs — *Shale, siltstone, sandstone, chert, and chert-pebble conglomerate*

PALEOZOIC

PLATFORM FACIES
Includes transition facies

ORDOVICIAN AND SILURIAN
MIDDLE ORDOVICIAN TO LOWER SILURIAN
OSc — *MOUNT KINDLE FORMATION north of 64°, WHITTAKER AND SUNBLOOD FORMATIONS south of 64°, in map area 106D Unit B of Green, 1972: dolostone, limestone, and transitional facies*

CAMBRIAN AND ORDOVICIAN
UPPER CAMBRIAN TO LOWER ORDOVICIAN
COr — *FRANKLIN MOUNTAIN FORMATION: massive dolostone*

SILURIAN AND DEVONIAN
MIDDLE SILURIAN TO MIDDLE DEVONIAN
SDc — *DELORME, SOMBRE, ARNICA, LANDRY, CRANSWICK AND HUME FORMATIONS north of 64°; DELORME, CAMSELL, SOMBRE, ARNICA, LANDRY, HEADLESS, NAHANNI FORMATIONS south of 64°: dolostone, limestone and transitional facies*

CAMBRIAN TO SILURIAN
UPPER CAMBRIAN TO LOWER SILURIAN
CSc — *FRANKLIN MOUNTAIN AND MOUNT KINDLE FORMATIONS north of 64°,BROKEN SKULL AND WHITTAKER FORMATIONS south 64°: dolostone, limestone, and transitional facies*

CAMBRIAN TO DEVONIAN
UPPER CAMBRIAN TO MIDDLE DEVONIAN
CDc — *Undivided massive limestone and dolostone occurs only in map area 105C*

TRANSITION FACIES
Only transitional facies differentiated on the map are shown here. The remainder are included with platform facies units.

ORDOVICIAN
MIDDLE ORDOVICIAN
mOc — *Unnamed massive limestone occurs only in western part of map area 106B*

CAMBRIAN AND ORDOVICIAN
UPPER CAMBRIAN TO LOWER ORDOVICIAN
COt — *TRANSITIONAL FACIES OF FRANKLIN MOUNTAIN FORMATION north of 64°, TRANSITIONAL FACIES OF BROKEN SKULL FORMATION south of 64°, in map area 105P Units 15, 16 and 17 of Blusson, 1971: massive dolostone, platy dolostone, basin limestone and shale*

CAMBRIAN
MIDDLE CAMBRIAN
mCc — *ROCKSLIDE FORMATION: limestone, siltstone, shale; minor sandstone and dolostone*

BASIN FACIES

CAMBRIAN TO DEVONIAN
MIDDLE CAMBRIAN TO LOWER DEVONIAN
OSs, CSs, CDs — *HESS RIVER, RABBITKETTLE, DUO LAKE, CLOUDY, and part of MARMOT FORMATIONS and UNNAMED UNITS:*
OSs, *Ordovician to Silurian;*
CSs, *Cambrian to Silurian;*
CDs, *Cambrian to Devonian: basin facies limestone; minor chert, sandstone, and volcanic rocks*

CAMBRIAN TO DEVONIAN
CAMBRIAN TO LOWER DEVONIAN
CDMv — *MARMOT FORMATION: basaltic volcanic rocks*

PALEOZOIC
Ps — *Undivided: shale, siltstone, and sandstone*

PALEOZOIC AND MESOZOIC
Ps-Mzs — *Undivided: shale, siltstone, and sandstone*

CAMBRIAN
LOWER CAMBRIAN
ℓC — *Sandstone, dolostone, and limestone*

PROTEROZOIC

PROTEROZOIC
lP — *Sedimentary and minor volcanic strata*

Geological boundary (approximate)
Anticline (overturned)
Syncline
Monoclinal bend (anticlinal)
Monoclinal bend (synclinal)
Thrust or reverse fault (teeth indicate upthrust side)
Normal fault (solid circle indicates downthrow side)
Fault (arrow indicates relative movement)
Lateral facies

Compiled by M.P. Cecile based on geology by Aitken and Cook (1974, 1975) and Aitken, Cook and Yorath (in press), Map areas 106G,H and parts of 106A,B;Blusson (1971, 1974); Map areas 105N,O,P,106C and parts of 106A, B; H. S. Bostock (1947), Map area 105M; Gabrielse, Blusson and Roddick (1973), Map area 95M; Green (1972), Map area 106D; D.K. Norris (1975), Map area 106E, F; and unpublished work of Cecile (1979) in northeast 105-0 map area.

To accompany Bulletin 335 by M.P. Cecile

REFERENCE

Olgivie Arch from Gabrielse (1967)
Mackenzie Arch from Aitken, Macqueen and Usher (1973)
Twitya Uplift from Cook and Aitken (1978)

Geological cartography by B.E. Fischer, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

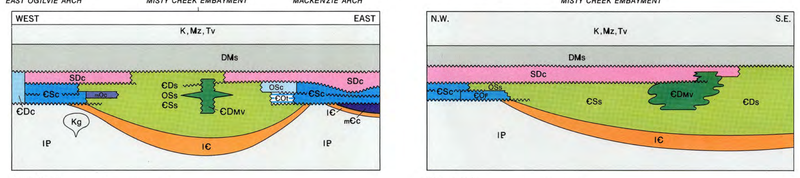
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

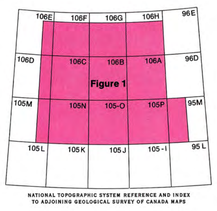
Base-map from part of MCR 25 at the scale of 1/1,000,000 published by the Surveys and Mapping Branch in 1972

Magnetic declination 1982 varies from 34° 41.6' easterly at centre of west edge to 32° 55.2'easterly at centre of east edge. Mean annual change ~8.15'

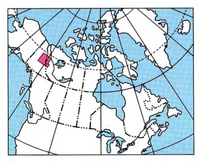
Elevations in feet above mean sea level

SCHEMATIC STRATIGRAPHIC RELATIONSHIPS REFERENCE

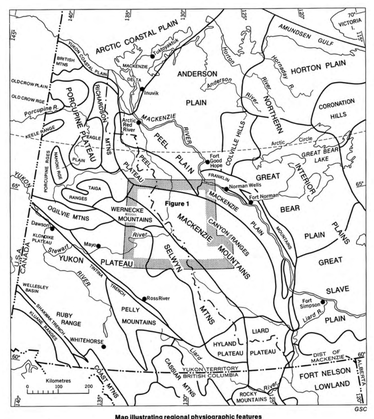




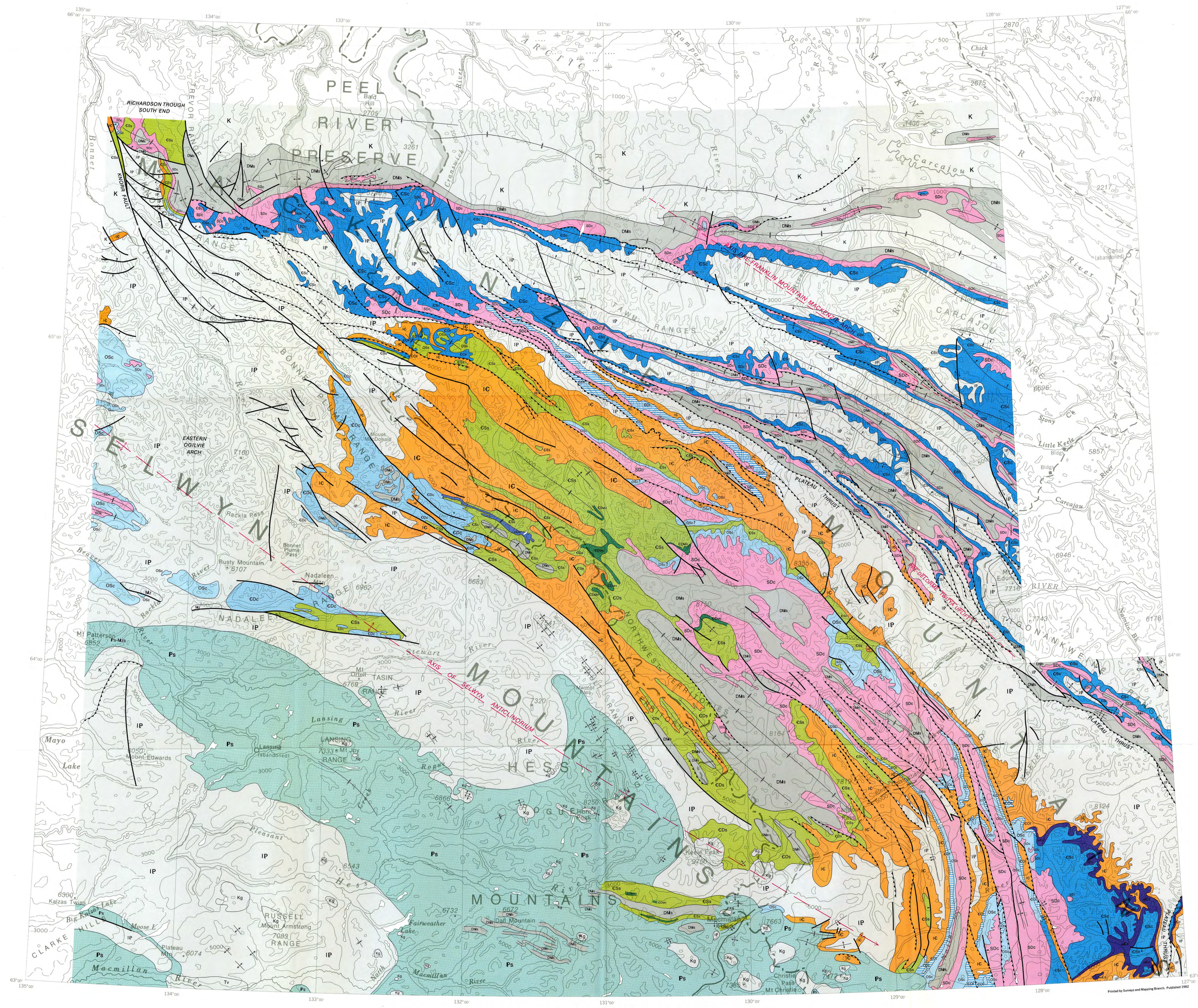
NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS



INDEX MAP



Map illustrating regional physiographic features



Printed by Surveys and Mapping Branch. Published 1982

Figure 1. Geological compilation map showing the distribution of Paleozoic platform carbonates, basin facies and volcanic rocks around the Misty Creek Embayment

Scale 1:500 000

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Figure 1