LEGEND

Geological contact (approximate)

Syncline axial trace
Anticline axial trace
Overturned anticline axial trace
Monoclinal bend (anticlinal)
Monoclinal bend (synclinal)
Thrust or reverse fault (teeth on upthrust plate)
Normal fault (down side indicated)
Fault

Lateral facies contact

TERTIARY

Tv — Tertiary volcanics

MESOZOIC

K — Cretaceous strata (shale, siltstone, sandstone)

Mz — Mesozoic strata (shale, siltstone, sandstone)

Kg — Mesozoic pluton

DEVONIAN-MISSISSIPPIAN

DMs — Devonian to Mississippian clastics (shale, siltstone, sandstone, chert pebble conglomerate)

PALEOZOIC

BASIN AND TRANSITION FACIES

OSs, €Ds, €Ss — Middle Cambrian to Silurian (€Ss), Middle Cambrian to Devonian (€Ds), and Ordovician to Silurian (OSs) basin facies (thin bedded silty limestone and limestone; shale; minor chert, sandstone and volcanics) - Road River Fm.

mOc — Unnamed Middle Ordovician limestone, S.W. 106B

€Dv — Basaltic volcanic rocks

COl — Transitional Franklin Mountain Fm. (N. of 64°) and Broken Skull Fm. (S. of 64°) facies (Broken Skull transition = outcrop panels of units 15 and/or 16 with unit 17 of Blusson, 1971)

m€c — Middle Cambrian transitional to basin facies, thin bedded, argillaceous limestone; minor shale, siltstone (H. Gabrielse, pers. comm., 1980)

Ps-Mzs — Undivided Paleozoic and Mesozoic strata

Ps — Undivided Paleozoic basin facies dominated by shale and chert

PLATFORM FACIES

SDc — Silurian to Devonian carbonates, including transitional (to basin facies) limestone

€Dc — Late Cambrian to Devonian carbonates map-area 106C

OSc — Ordovician to Silurian carbonates - Mount Kindle Fm. (map-areas 106A, B); Whittaker and Sunblood Fms., including transitional (to basin) facies (105P, 95M); and Unit 8 of Green (1972, 106D)

€Sc — Late Cambrian to Silurian carbonates - Franklin Mountain and Mount Kindle Fms. north of 64°, and Broken Skull and Whittaker Fms. south of 64°

COl — Franklin Mountain Fm., massive dolostone

CAMBRIAN

I€ — Lower Cambrian sandstone and carbonate - Sekwi and Backbone Ranges Fms.; Backbone Ranges Fm. only in map-area 95M; and map units 12, 13 and 14 of Blusson (1971, 105P)

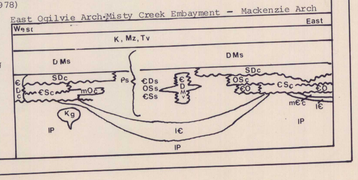
PROTEROZOIC

IP — Undivided Proterozoic rocks

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; Bostock (1947) - map-area 105M; Gabrielse, Blusson and Roddick (1973) - map-area 95N; Green (1972) - map-area 106D; Norris (1975) - map-areas 106E, F; and unpublished work of Cecile (1979) in northeast 1050 map-area.

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

East Ogilvie Arch-Misty Creek Embayment — Mackenzie Arch



Schematic cross-section showing stratigraphic relationships

Generalized geological map showing the distribution of Lower Paleozoic rocks in the area of the northern Selwyn and Mackenzie Mountains

Scale 1:500 000

10 5 0 10 20 30 Kilometres

G.S.C. Open File Report # 710

M.P. Cecile (compiler)