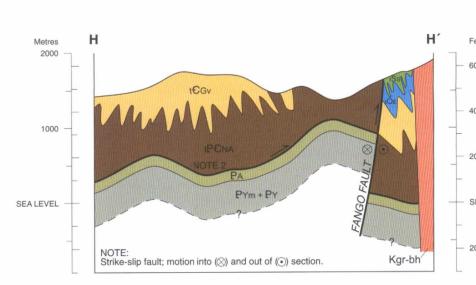
Structure cross-section I-I'-I"

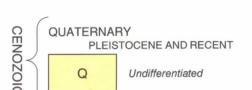
GEOLOGICAL SURVEY OF CANADA

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Structure cross-section H-H'

LEGEND (see Note 1)



**CRETACEOUS** UPPER CRETACEOUS Kgr-b,bh Granite; quartz monzonite; with (b) biotite, (bh) biotite and hornblende

> JONES LAKE FORMATION: shale and siltstone, tan, buff and black weathering; minor chert, siliceous shale and slabby, brown-orange carbonate

CARBONIFEROUS TO PERMIAN

TRIASSIC

SILURIAN

CAMBRIAN TO SILURIAN

**PROTEROZOIC** 

Unnamed chert unit: (c) chert, dark grey to black, minor black shale; well bedded; (ca) chert with significant interbeds of buff argillite, shale

DEVONIAN LOWER AND MIDDLE DEVONIAN

THOR HILLS FORMATION: chert pebble conglomerate

MISFORTUNE FORMATION: chert, dark grey to black; minor black shale, whitish

STEELE FORMATION: argillite, rusty green to buff; minor black shale and chert, and prominent bed of bright orange weathering dolostone ORDOVICIAN

NARCHILLA FORMATION

Occurs in northern part of map area only

ELMER CREEK FORMATION: chert and siliceous shale, black, graptolitic, bioturbated in upper part; chert, siliceous argillite, grey in lower part; rare limestone

GULL LAKE FORMATION: argillite, buff, green; minor units of shale, chert, quartzite,

LOWER CAMBRIAN TO SILURIAN OLD CABIN FORMATION: basic volcaniclastics, breccias, lapilli tuff, flows, sills, dykes; minor sedimentary rock units. Occurs as thick successions and tongues in EG

limestone and volcaniclastic rocks. CGv where interbedded volcanics are abundant PROTEROZOIC AND CAMBRIAN UPPER PROTEROZOIC AND LOWER CAMBRIAN HIGHLAND GROUP (PY - PENA)

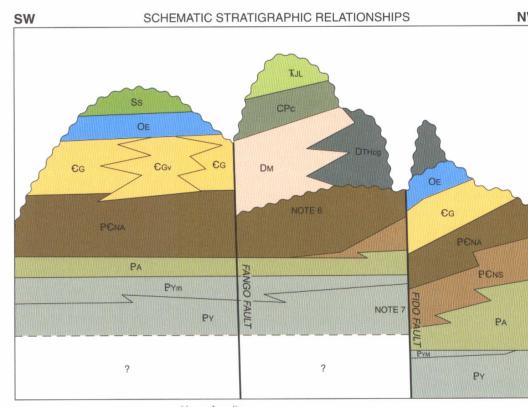
Arrowhead Lake Member: argillite, maroon and pale green; minor quartzite, conglomerate, limestone; Lower Cambrian in map area, but ranges into Proterozoic outside map area Senoah Member: argillite, grey, green, buff, with minor thick units of quartzite and

UPPER PROTEROZOIC ALGAE LAKE FORMATION: limestone, arenaceous limestone; minor dolostone, argillite, breccia; thin and undivided in map area

quartz-pebble conglomerate; also minor units of limestone and silty limestone.

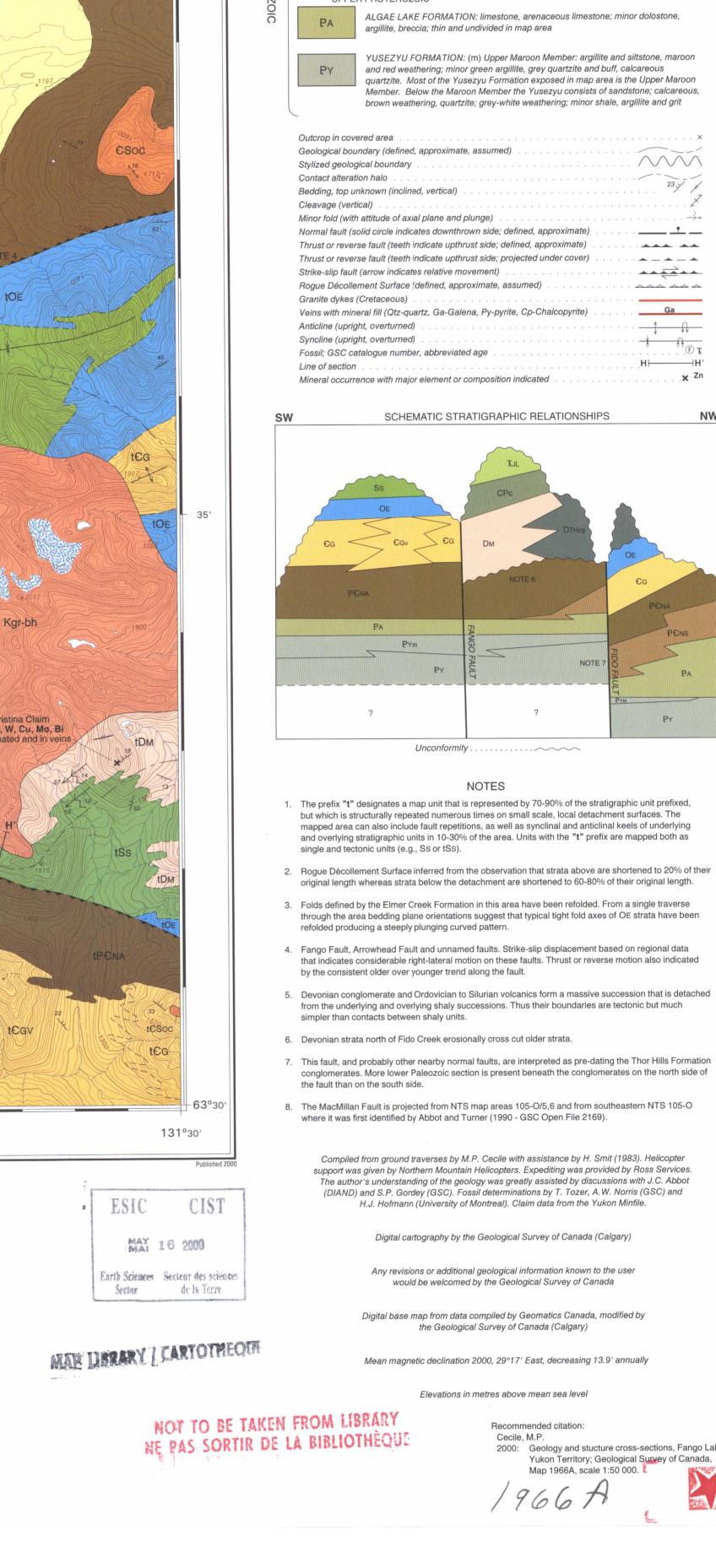
and red weathering; minor green argillite, grey quartzite and buff, calcareous quartzite. Most of the Yusezyu Formation exposed in map area is the Upper Maroon Member. Below the Maroon Member the Yusezyu consists of sandstone; calcareous, brown weathering, quartzite; grey-white weathering; minor shale, argillite and grit

Geological boundary (defined, approximate, assumed) Contact alteration halo . . . . Cleavage (vertical) Minor fold (with attitude of axial plane and plunge) . . . Normal fault (solid circle indicates downthrown side; defined, approximate) Thrust or reverse fault (teeth indicate upthrust side; defined, approximate) Thrust or reverse fault (teeth indicate upthrust side; projected under cover) Strike-slip fault (arrow indicates relative movement) Rogue Décollement Surface (defined, approximate, assumed) Granite dykes (Cretaceous) Veins with mineral fill (Qtz-quartz, Ga-Galena, Py-pyrite, Cp-Chalcopyrite) Anticline (upright, overturned) Syncline (upright, overturned) Fossil; GSC catalogue number, abbreviated age Mineral occurrence with major element or composition indicated



- but which is structurally repeated numerous times on small scale, local detachment surfaces. The napped area can also include fault repetitions, as well as synclinal and anticlinal keels of underlying and overlying stratigraphic units in 10-30% of the area. Units with the "t" prefix are mapped both as single and tectonic units (e.g., Ss or tSs).
- original length whereas strata below the detachment are shortened to 60-80% of their original length.
- through the area bedding plane orientations suggest that typical tight fold axes of OE strata have been refolded producing a steeply plunging curved pattern.
- that indicates considerable right-lateral motion on these faults. Thrust or reverse motion also indicated by the consistent older over younger trend along the fault.
- from the underlying and overlying shaly successions. Thus their boundaries are tectonic but much
- 7. This fault, and probably other nearby normal faults, are interpreted as pre-dating the Thor Hills Formation conglomerates. More lower Paleozoic section is present beneath the conglomerates on the north side of
- 8. The MacMillan Fault is projected from NTS map areas 105-O/5,6 and from southeastern NTS 105-O

Compiled from ground traverses by M.P. Cecile with assistance by H. Smit (1983). Helicopter support was given by Northern Mountain Helicopters. Expediting was provided by Ross Services. The author's understanding of the geology was greatly assisted by discussions with J.C. Abbot



105 N/8 105-0/5



Scale 1:50 000 - Échelle 1/50 000

Projection transverse universelle de Mercator

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Universal Transverse Mercator Projection

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Canada

2000: Geology and stucture cross-sections, Fango Lake, Yukon Territory; Geological Survey of Canada, Map 1966A, scale 1:50 000.

LOCATION MAP