

LEGEND

LOWER PROTEROZOIC

- 11** Unfoliated, pink microgranite
- 10** Coarse-grained quartz-feldspar pegmatite, commonly with tourmaline
- 9** Foliated, white tourmaline microgranite; 9a, area having abundant country rock inclusions
- 8** Strongly foliated biotite-gneiss with local dioritic variations, especially in west (may be older than 3); 8a, migmatites with host rocks dominant
- 7** Foliated porphyroblastic granite; 7a, migmatites with host rocks dominant
- SNARE GROUP (3-6)**
- 6** Thin-bedded quartz-feldspar sandstone, slate and quartz sandstone
- 5** Thin-bedded quartz-feldspar sandstone and slate
- 4** 'Salt and pepper' quartz-feldspar sandstone with ribs and lenses of calc-silicates
- 3** Limestone; 3a, calc-silicates associated with the limestone
- YELLOWKNIFE GROUP (1-2)**
- 2** Banded hornblende rocks with lenses of pillow lava
- 1** Graded units of subgreywacke and slate; 1a, mylonitized subgreywacke and slate

Boundary of metamorphic zones L
Low grade metamorphic zone L
Medium grade metamorphic zone M
High grade metamorphic zone H

Note: lithology of sediments as given in legend is as in low grade metamorphic zone.
Lithology in other zones is as shown below.

LOW	MEDIUM	HIGH
Subgreywacke	Feldspar-quartz-biotite granulite (with some cordierite and a little staurolite)	Same as medium grade but characterized by presence of cordierite and sillimanite
Slate	Cordierite-feldspar-quartz biotite schist	
Quartz-feldspar sandstone	Quartz-feldspar granulite	
Quartz sandstone	Quartzite	

Gneisses with cordierite and sillimanite occur only in zones of migmatites

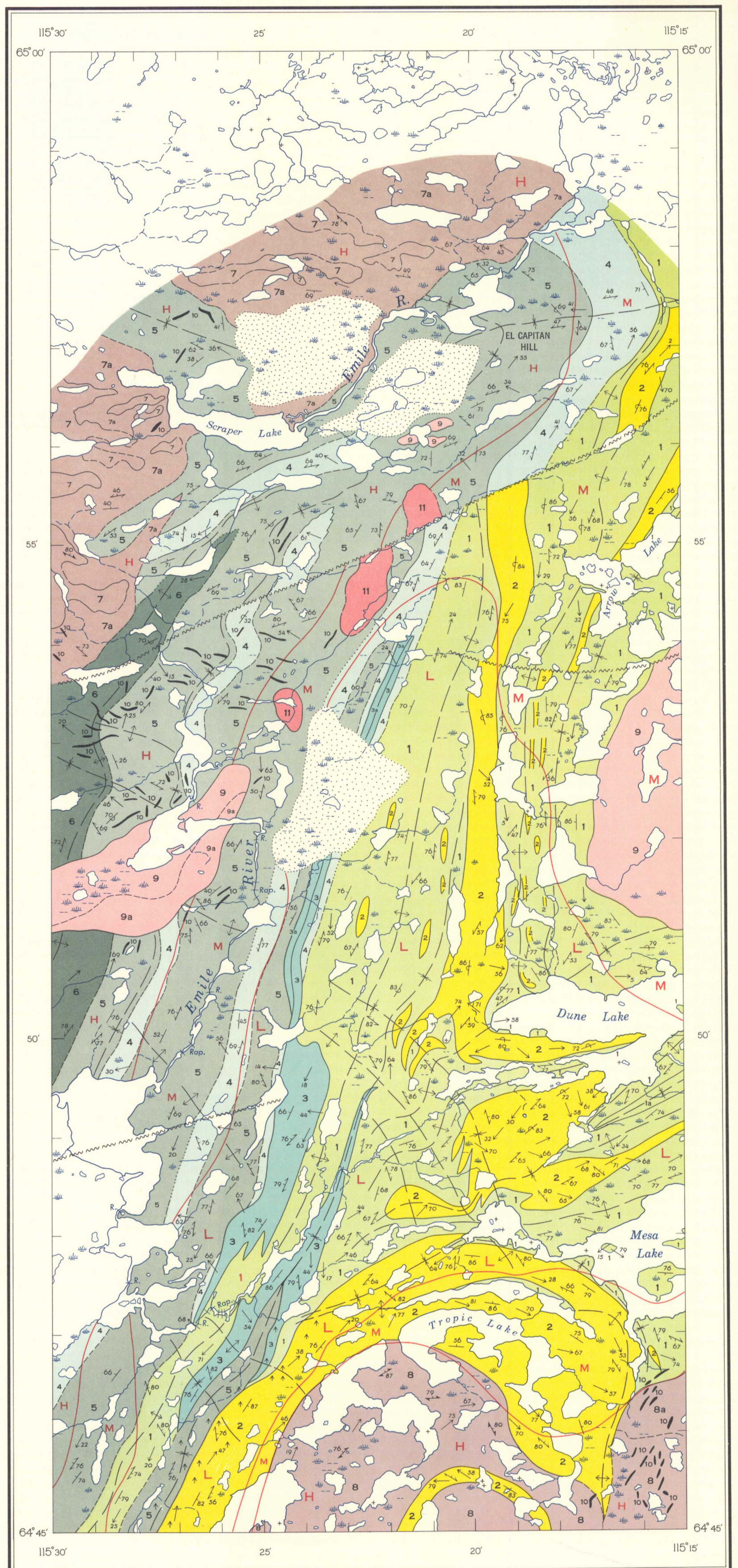
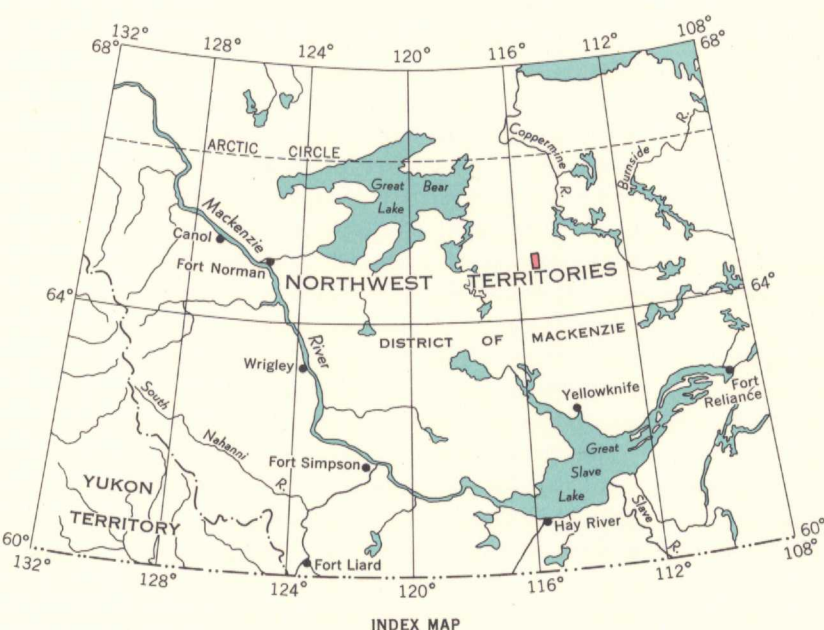
- Drift covered area
- Bedding (inclined, overturned)
- Axial-plane cleavage
- Foliation of gneissose rocks
- Lineation (plunging, vertical)
- Fault (approximate)
- Ground-trace of axial-plane of major anticlinal fold
- Ground-trace of axial-plane of major synclinal fold

Geology by J. V. Ross, 1958
To accompany G. S. C. Bulletin 124 by J. V. Ross
Geological cartography by the Geological Survey of Canada, 1964

- Portage P
- Stream (position approximate)
- Rapids Rap
- Marsh
- Rock, reef or small island +

Base-map cartography by the Geological Survey of Canada, 1964 from a map published by the Surveys and Mapping Branch, 1949

Approximate magnetic declination 36° 51' East, decreasing 7.7' annually

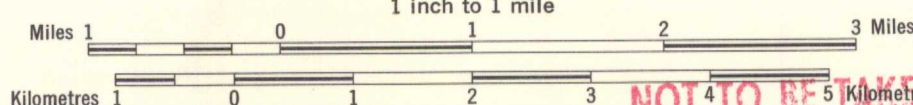


PUBLISHED, 1965
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MAP 1173A
GEOLOGY
MESA LAKE
DISTRICT OF MACKENZIE

Scale 1:63,360
1 inch to 1 mile



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