LEGEND

MESOZOIC CENOZOIC

QUATERNARY

16 — Unconsolidated glacial and alluvial deposits

CRETACEOUS (?)

15 — Fine- to medium-grained biotite-quartz monzonite, granodiorite, minor diorite and gneiss; 15a, fine- and medium-grained biotite hornblende quartz monzonite and granodiorite, in part porphyritic; 15b, hornblende syenite

PALAEOZOIC

DEVONIAN AND (?) MISSISSIPPIAN

13 — Brown and black shale, black and grey chert, quartzite, greywacke, chert-pebble conglomerate; 13a, fine-grained light grey limestone and minor dolomite; 13b, greenstone; 13c, serpentinite

14 — Rusty brown weathering fine-grained schistose and spotted biotite hornfels, fine-grained quartzite, black pyritic argillite, dense light green to grey calc-silicate hornfels and fine-grained marble; minor slate, silty limestone and greywacke; 14a, light grey thin-bedded fine-grained marble and calc-silicate hornfels. May include some 1 and 2

SILURIAN AND DEVONIAN (?)

12 — Fine-grained light to dark grey dolomite and quartzite; minor buff-grey dolomitic quartzite and silty to sandy dolomite

ORDOVICIAN AND SILURIAN

11 — Black shale, slate; minor chert, siltstone, dark limestone

CAMBRIAN

MIDDLE AND LATE CAMBRIAN

9 — Light grey and brownish grey weathering, intercalated platy argillaceous silty limestone, siltstone, and fine-grained grey limestone

10 — Dark grey and brown silty shale and finely laminated siltstone, dark grey slate, thin-bedded brown-grey fine-grained sandstone; minor hornfels

EARLY AND/OR MIDDLE CAMBRIAN

7 — Buff-weathering dolomite, silty and sandy dolomite; minor sandstone and shale

6 — Bright yellow and orange-weathering silty and sandy dolomite

8 — Dark brown-grey to black, in part pyritic, calcareous argillite, slate, shale, and minor thin-bedded argillaceous limestone

EARLY CAMBRIAN

5 — Sandstone, buff-weathering sandy and silty dolomite, dolomite, minor quartzite and argillaceous limestone; basic volcanic flows

4 — 'Swiss-cheese' limestone, irregular interbanded dolomitic siltstone and argillaceous to silty limestone; pods and lenses of limestone; minor blue-grey fine-grained limestone and orange-weathering dolomite

PROTEROZOIC

CAMBRIAN AND/OR EARLIER

3 — Brown to red-brown weathering slate, phyllite, siltstone and fine-grained quartzite; 3a, green-grey slate and phyllite

1 — Brown, grey, maroon and green shale; grey to green slate and phyllite, gritty feldspathic quartzite, quartz- and feldspar-pebble conglomerate, sandstone; 1a, minor limestone; 1b, light grey weathering, fine-grained grey limestone; 1c, mainly grey to green slate and phyllite; 1d, maroon and green shale and slate; 1e, mainly brown and grey shale and slate, minor maroon and green shale. 1d and 1e are probably equivalent and perhaps correlative with 1c

2 — Quartz-feldspar-mica gneiss and schist, granitoid gneiss, feldspathic and micaceous quartzite, biotite schist, minor marble and skarn; numerous small granitic bodies, aplite and pegmatite; 2a, fine- to coarse-grained marble

A — Highly altered, green to brown, megacrystic, coarse-grained biotite-quartz monzonite or granodiorite. Age uncertain

Geological boundary (defined, approximate or assumed)
Bedding (inclined, vertical)
Foliation (horizontal, inclined, vertical)
Lineation (horizontal, inclined)
Fault (defined, approximate)
Anticline (defined, approximate, arrow indicates plunge)
Syncline (defined, approximate, overturned)
Fossil locality — (F)
Mineral occurrence or prospect (tungsten, W; copper, Cu; zinc, Zn) — XW
Areas of mineral prospects (zinc, Zn; lead, Pb; copper, Cu; silver, Ag) — Zn,Pb
Hot spring — H.S.O
Glacier — (G)

Geology by E. F. Roots, 1953; L. H. Green and J. A. Roddick, 1960
S. L. Blusson, 1962 and 1965

Geological cartography by the Geological Survey of Canada, 1966

Road, all weather
Airstrip
Mine
Horizontal control point
Provincial boundary
Intermittent stream
Marsh
Contours (interval 500 feet)
Height in feet above mean sea-level

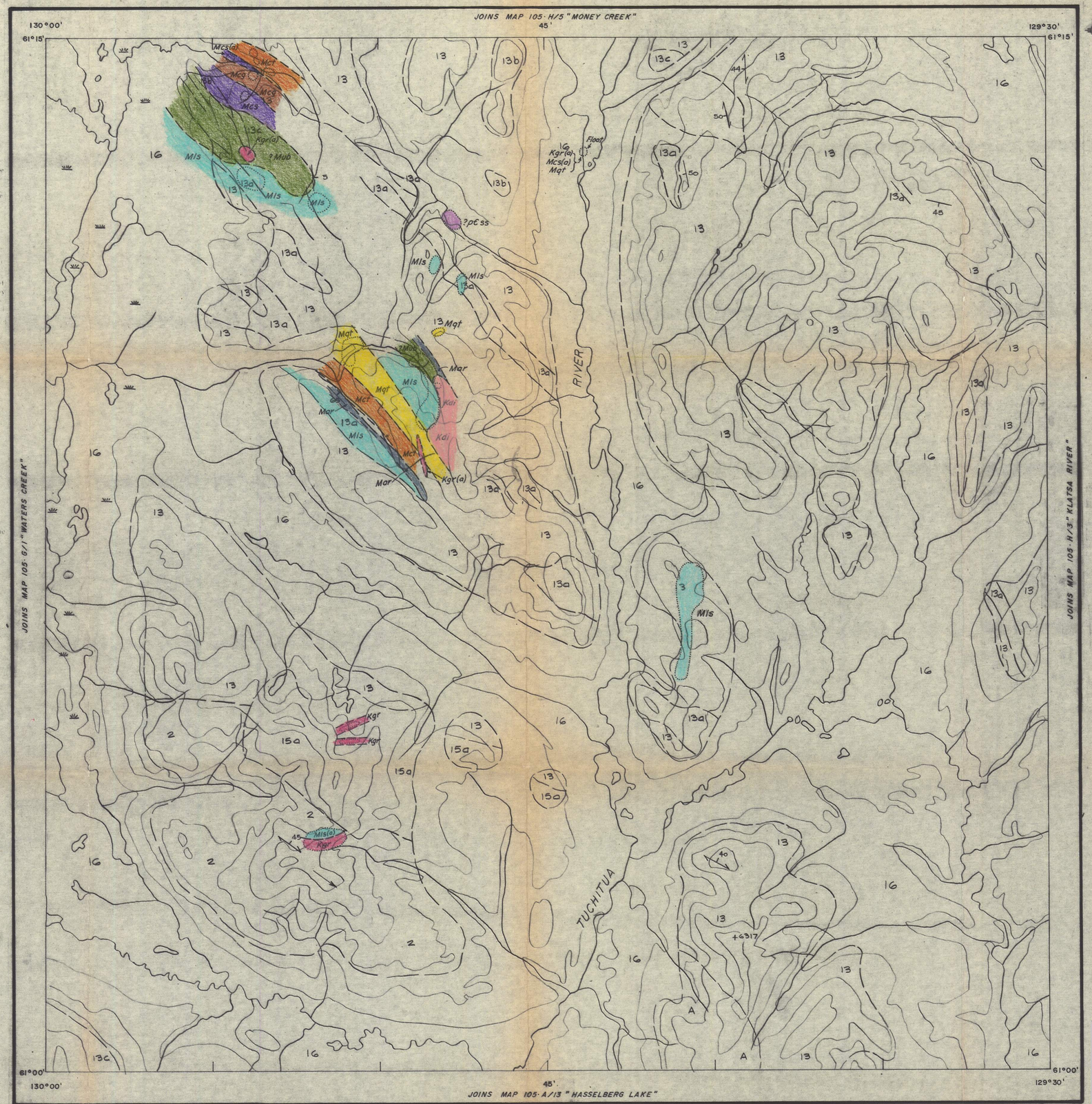
MAP 6-1966

GEOLOGY

FRANCES LAKE

YUKON TERRITORY AND DISTRICT OF MACKENZIE

105 H 4



LEGEND

- Kgr — Granite; feldspar porphyry (a)
- Kdi — Medium grained hornblende diorite.
- ?Mub — Serpentinite and associated quartz carbonate alteration.
- Mcs — Chlorite schist; minor andesite (a)
- Mls — Fine grained light grey limestone and minor dolomite; scarn (a)
- Mar — Argillite, slate, shale.
- Mct — Black chert with minor shale.
- Mqt — Quartzite.
- Mcg — Grit and chert pebble conglomerate.
- ?p€ss — Mica schist (sheared, leached? outcrop).

inches 0 1 2
0 1 2 3 4 5 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

SHEET 105·H/4 TUCHITUA RIVER

Scale: One Inch to One Mile = 1/63,360
Miles 1 1/2 0 1 2 3

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