



LEGEND

Note: Weighted legend blocks indicate map-units that appear on this map

- QUATERNARY**
 - 25 Unconsolidated glacial and alluvial deposits
- TERTIARY**
 - 24 Dark grey and brown andesite and basalt, commonly porphyritic; minor shale, sandstone, and conglomerate
 - 23 Quartz porphyry
- CRETACEOUS (?) AND TERTIARY**
 - 22a, poorly consolidated, brown, buff, and grey, arkosic and micaceous sandstone, light and dark shale, poorly sorted conglomerate; minor lignite and agglomerate; 22b, brown weathering, thin-bedded, brown chert-grain sandstone, siltstone, shale, and fine chert-pebble conglomerate
 - 21a, fine- to coarse-grained, uneven textured, biotite granodiorite and biotite quartz monzonite; 21b, mainly hornblende and hornblende/biotite syenite, commonly porphyritic (potassium feldspar phenocrysts), uneven textured, mostly medium grained, locally fine or coarse grained; minor diorite
 - 20 Orange to brown weathering diorite and gabbro; altered equivalents
- JURASSIC**
 - MIDDLE JURASSIC
 - 19 Brown weathering, thin-bedded, brown siltstone, commonly limy; minor black shale and sandstone
 - PRE-MIDDLE JURASSIC
 - 17 Grey and blue-grey, massive quartzite; minor slate and phyllite, commonly graphitic, argillaceous quartzite; 17a, thin-bedded and phyllitic quartzite, graphitic and chloritic slate and phyllite, minor limestone and massive quartzite
- TRIASSIC**
 - UPPER TRIASSIC
 - 18 Black weathering, platy, black limy shale and limestone; thin bands of grey to buff weathering limestone
- PERMIAN**
 - 16 White, light grey, and dark grey chert, cherty limestone, and limestone
- CARBONIFEROUS TO PERMIAN**
 - 15 Buff weathering, dark grey, thin- to medium-bedded limestone; minor black shale, chert, and chert-pebble conglomerate; 15a, dark shale, argillaceous limestone, and thin-bedded brown sandstone; minor chert-pebble conglomerate; 15b, black and silvery weathering shale and slate; minor platy, buff weathering grey limestone, impure sandstone
- DEVONIAN TO CARBONIFEROUS**
 - MIDDLE DEVONIAN TO CARBONIFEROUS
 - 13 Black shale, argillite, and slate, black platy limestone, chert, minor chert-pebble conglomerate and quartzite; 13a, brown weathering fine chert-pebble conglomerate and chert-grain sandstone
- DEVONIAN**
 - LOWER MIDDLE DEVONIAN
 - 11 Limestone, dark grey, brown and black, massive to thin-bedded, very fine grained, buff grey weathering
 - 10 Limestone and dolomite, light grey and dark brownish grey, fine to medium grained, mostly alternating dark and light beds 2 to 5 feet thick
- CAMBRIAN, ORDOVICIAN, AND SILURIAN**
 - 8 Grey and buff weathering dolomite and limestone, mostly medium to thick bedded; minor platy black argillaceous limestone and dolomite (may include some 10 and 11); 8a, grey to dark grey weathering, dark volcanic rocks, many partly serpentinized, brown weathering grey-green limy tuff and argillite, and thin-bedded brown limestone
- CAMBRIAN**
 - MIDDLE (?) AND UPPER CAMBRIAN
 - 7 Buff, brown, and grey weathering, thin- to medium-bedded, limestone, and grey weathering thin- to thick-bedded dolomite; minor brown and green shale and orange weathering dolomite
 - LOWER (?) CAMBRIAN TO ORDOVICIAN (?)
 - 6 Grey weathering, medium- to thick-bedded limestone and dolomite (may include some Precambrian)
- CAMBRIAN (?)**
 - 5 Mainly brick red, thick-bedded to massive sandstone and red to buff massive conglomerate; minor red shale, local andesitic or basaltic flows and sills
- PRECAMBRIAN**
 - 2 Orange weathering, platy, grey-green dolomite, dark shale, and phyllite and quartzite; 2a, mainly black shale and slate, and platy sandstone; minor black limestone, quartzite, orange weathering dolomite and grey dolomite; 2b, buff weathering dolomite-boulder conglomerate; 2c, massive, cherty and quartzose, grey dolomite; thin-bedded, buff-weathering grey dolomite; minor black shale and white quartzite; 2d, buff, orange and pink dolomite, black shale; minor black limestone, red dolomite, green argillite, maroon quartzite and shale, and greenstone; 2e, dark grey, thinly laminated dolomite; minor black chert
 - 1 Mainly dark grey, grey-green, and black, thin-bedded argillite, slate, and phyllite; minor grey quartzite, orange weathering dolomite, and conglomerate; 1a, grey weathering, thinly laminated, siliceous limestone

SILURIAN (?) TO MIDDLE DEVONIAN

LOWER (?) CAMBRIAN TO ORDOVICIAN (?)

PRECAMBRIAN AND/OR LATER

- 4 Dark brown and green to light grey weathering dark green volcanic rocks, commonly with calcite filled vesicles, breccia, tuff, and agglomerate; minor interbedded shale, chert, siltstone, and limestone; 4a, dark brown to dark green weathering dark green volcanic rocks, commonly with calcite filled vesicles, breccia, tuff, and agglomerate, interbedded with 2b and may be older; 4b, dark green, fine-grained andesite

PRECAMBRIAN AND/OR CAMBRIAN

- 3 Mainly buff, brown, and rusty-weathering, gritty quartzite, sandstone and quartz-pebble conglomerate; black, maroon and green shales, and slates; schistose quartzite, quartz chlorite schist, quartz-mica schist and phyllite; minor limestone and black chert; 3a, thin- to medium-bedded, dark grey limestone

Geological boundary (defined, approximate and assumed)

Bedding (horizontal, inclined, vertical)

Bedding, tops unknown (dip known)

Bedding, estimated attitudes, may in part be of foliation, horizontal, inclined (dip: g, gentle; m, medium; s, steep)

Foliation (horizontal, inclined, vertical)

Fault (defined, approximate, assumed)

Thrust fault (teeth in direction of dip; defined, approximate or assumed)

Anticline (defined, approximate)

Anticline and syncline (overturned)

Syncline (defined, approximate)

Fossil locality

Mineral prospect or occurrence

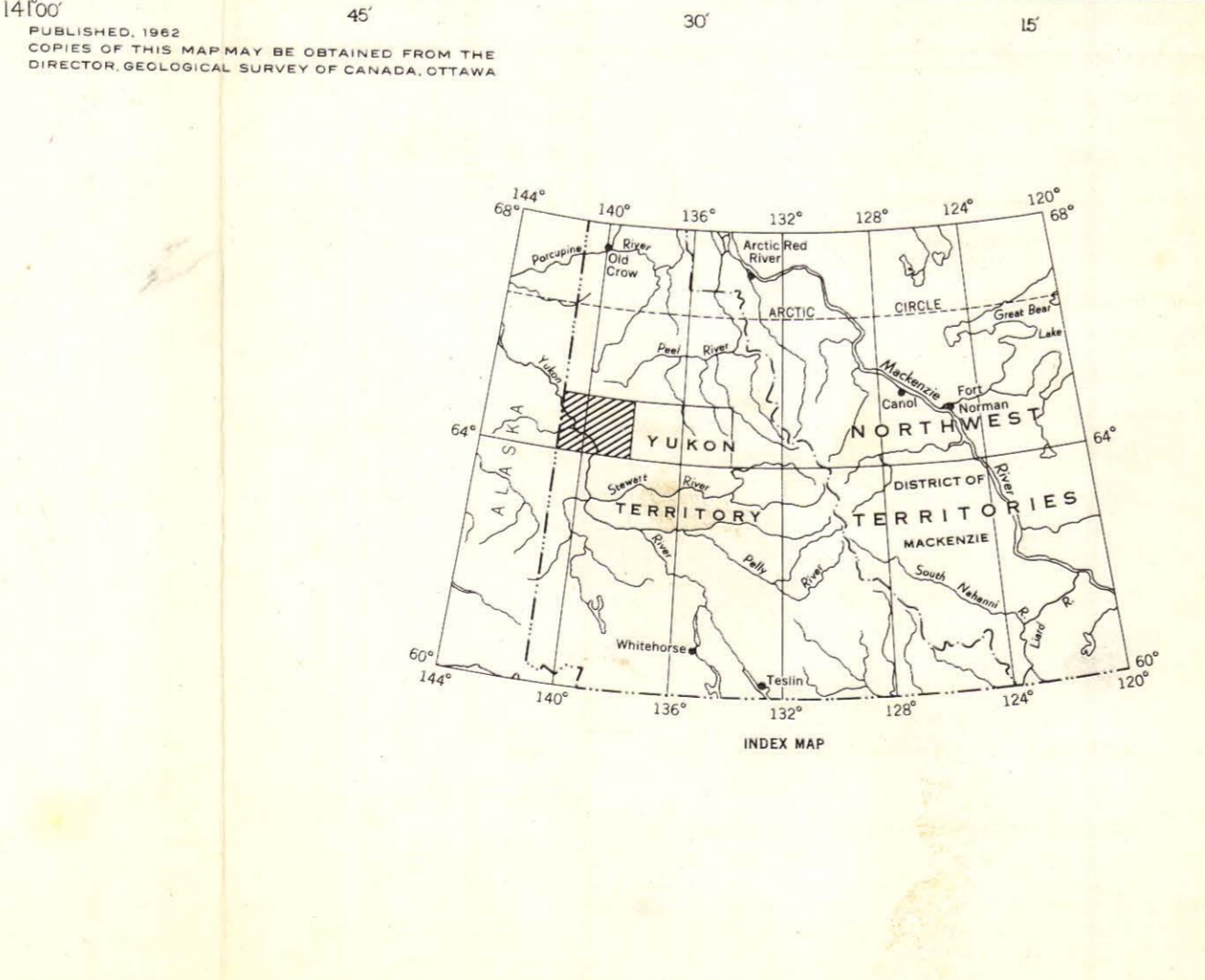
METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH

- A Reddish brown-weathering dark green serpentinized ultrabasic rocks
- B Mainly buff weathering, light pale green quartz-muscovite-chlorite schist, and schistose, chloritic quartzite, with all intermediate rock types also present; minor silvery muscovite schist, fine-grained quartz-biotite gneiss, thinly laminated quartz-granite-sericite schist and quartzite, and sheared igneous rocks, primarily quartz-feldspar porphyries
- C Grey and grey-green, micaceous quartzite; dark grey, light grey and silvery quartz-mica schist; minor fine-grained quartz-biotite gneiss, graphitic schist and quartz-muscovite-chlorite schist; Ca, coarsely crystalline, whitish limestone
- D Dark weathering greenstone and banded amphibolite gneiss; minor chloritic quartz-mica schist, graphitic quartz-mica schist, quartzite, and limestone
- E Fine- to medium-grained, granitic textured, quartz-biotite gneiss; minor quartzite, quartz-mica and biotite-chlorite schist, and quartz-feldspar pegmatite

Geology by L. H. Green and J. A. Rodick. 1961

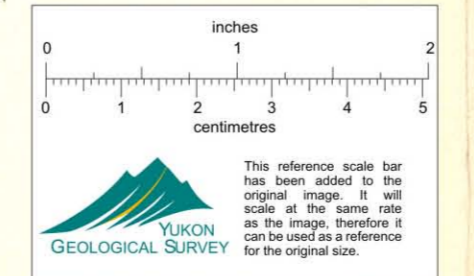
Cartography by the Geological Survey of Canada, 1962

Mean magnetic declination, 33° 27' East, decreasing 3.8" annually. Readings vary from 31° 53' E in the SW corner to 35° 07' E in the NE corner of the map area.



MAP 13-1962
TO ACCOMPANY PAPER 62-7
GEOLOGY
DAWSON
YUKON TERRITORY

Scale: One Inch to Four Miles = $\frac{1}{253,440}$ Miles



- LEGEND**
- Road, loose surface, all weather, dry weather
 - Cart track
 - Trail
 - International boundary
 - Power transmission line
 - Building
 - Horizontal control point
 - Aerodrome
 - Landing ground
 - Seaplane base
 - Intermittent stream
 - Marsh
 - Contours (interval 500 feet)
 - Height in feet above mean sea-level

Base-map by the Surveys and Mapping Branch, 1956

Geographical names subject to revision

MAP 13-1962
DAWSON
YUKON TERRITORY
SHEET 116 B AND
116 C (East Half)

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