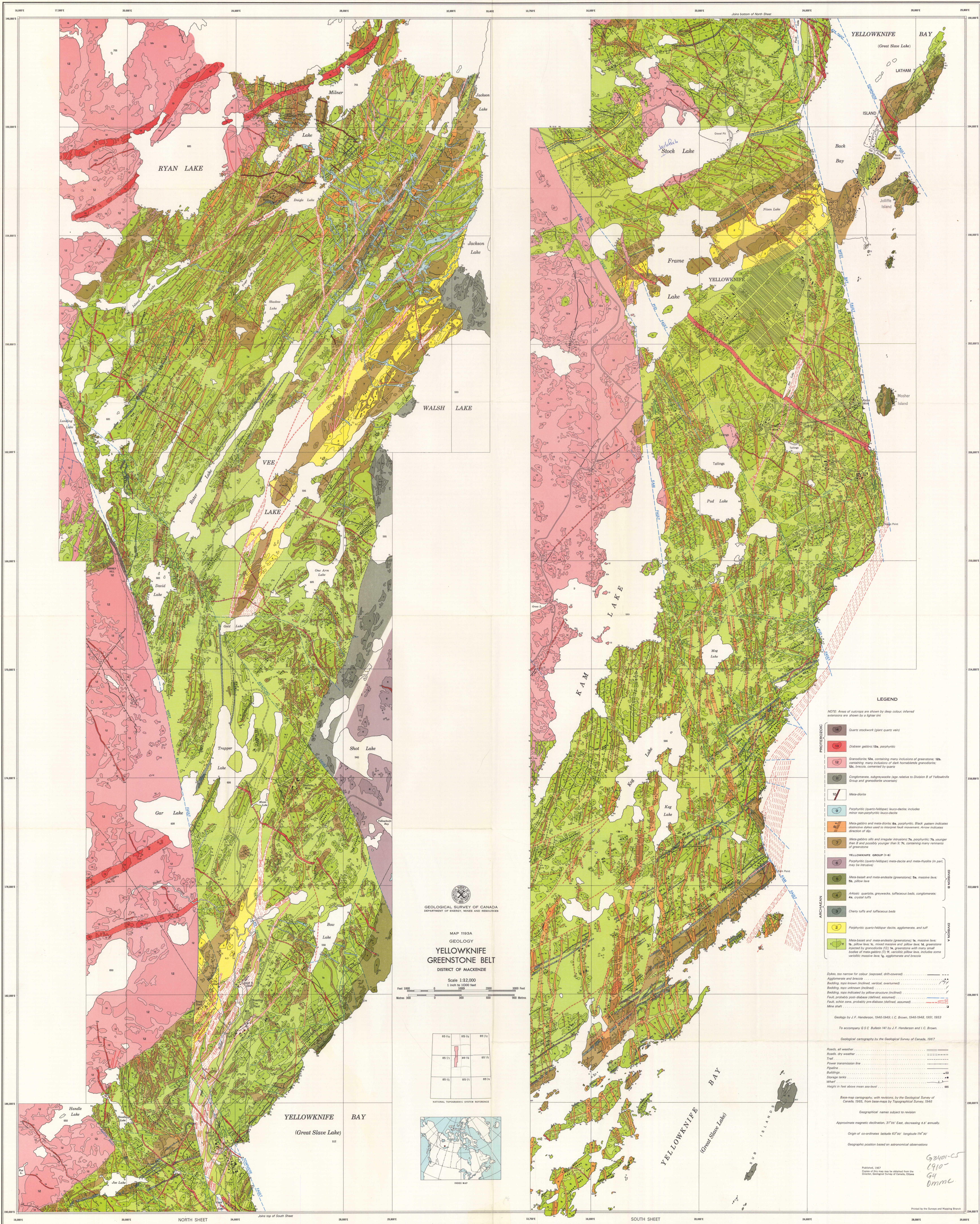
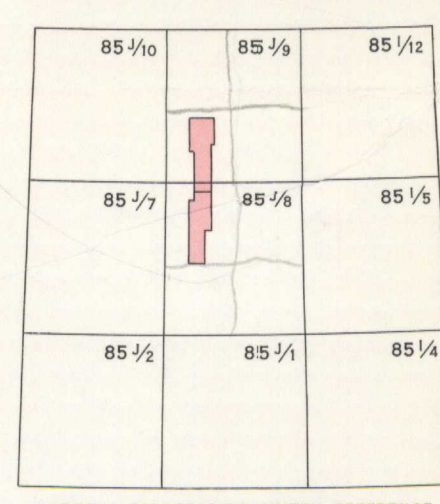




GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1193A
GEOLOGY
YELLOWKNIFE
GREENSTONE BELT
DISTRICT OF MACKENZIE

Scale 1:12,000
1 inch to 1,000 feet
1:12,000
0 100 200 300 400 500 600 700 800 900 1000 Feet
0 100 200 300 400 500 600 700 800 900 1000 Metres



INDEX MAP

- NOTE: Areas of outcrops are shown by deep colour; inferred extensions are shown by a lighter one.
- PROTEROZOIC**
- 14 Quartz stockwork (quartz veins)
 - 13a Diabase gabbro: 13a, porphyritic
 - 12a Granodiorite: 12a, containing many inclusions of greenstone; 12b, containing many inclusions of dark hornblende granodiorite; 12c, breccia, cemented by quartz
 - 11 Conglomerate, subvolcanic (age relative to Division B of Yellowknife Group and granodiorite uncertain)
 - 10a Meta-diorite
 - 9 Porphyritic (quartz-feldspar) leuco-diorite; includes minor non-porphyritic leuco-diorite
 - 8a Meta-gabbro and meta-diorite: 8a, porphyritic; black pattern indicates distinctive foliation used to interpret fault movement; Arrow indicates direction of slip
 - 7a Meta-gabbro sills and irregular intrusions: 7a, porphyritic; 7b, younger than 7a and possibly younger than 9, 7c, containing many remnants of greenstone
- YELLOWKNIFE GROUP (1-6)**
- 6 Porphyritic (quartz-feldspar) meta-diorite and meta-rhyolite (in part, may be intrusive)
 - 5a Meta-basalt and meta-andesite (greenstone): 5a, massive lava; 5b, pillow lava
 - 4a Archaean quartzite, greywacke, siliceous beds, conglomerate; 4a, crystal tuffs
 - 3a Cherty tuffs and siliceous beds
- ARCHAEOAN**
- 2 Porphyritic quartz-feldspar diorite, agglomerate, and tuff
 - 1a Meta-basalt and meta-andesite (greenstone): 1a, massive lava; 1b, yellow lava; 1c, mixed massive and pillow lava; 1d, greenstone injected by granodiorite (12); 1e, greenstone with many small bodies of meta-gabbro (7); 1f, vesicular pillow lava; includes some xenolithic massive lava; 1g, agglomerate and breccia

Dikes, too narrow for colour (exposed, drift-covered)
Agglomerate and breccia
Bedding, not known (inclined, vertical, overturned)
Bedding, not known (inclined)
Bedding, not known (vertical)
Fault, probably post-dike (defined, assumed)
Fault, schist zone, probably pre-dike (defined, assumed)
Mine shaft
Height in feet above mean sea level 665

Geology by J. F. Henderson, 1945-1949; I. C. Brown, 1949-1949, 1950, 1953
To accompany G.S.C. Bulletin 141 by J. F. Henderson and I. C. Brown.
Geological cartography by the Geological Survey of Canada, 1967.

Base-map cartography, with revisions, by the Geological Survey of Canada, 1965, from base-maps by Topographical Survey, 1945.
Geographical names subject to revision.
Approximate magnetic declination, 31° 04' East, decreasing 6.2' annually.
Origin of co-ordinates latitude 62° 00' longitude 114° 30'.
Geographic position based on astronomical observations.

Published, 1967.
Copies of this map may be obtained from the
Director, Geological Survey of Canada, Ottawa.
G3401-C5
G910-
G4
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