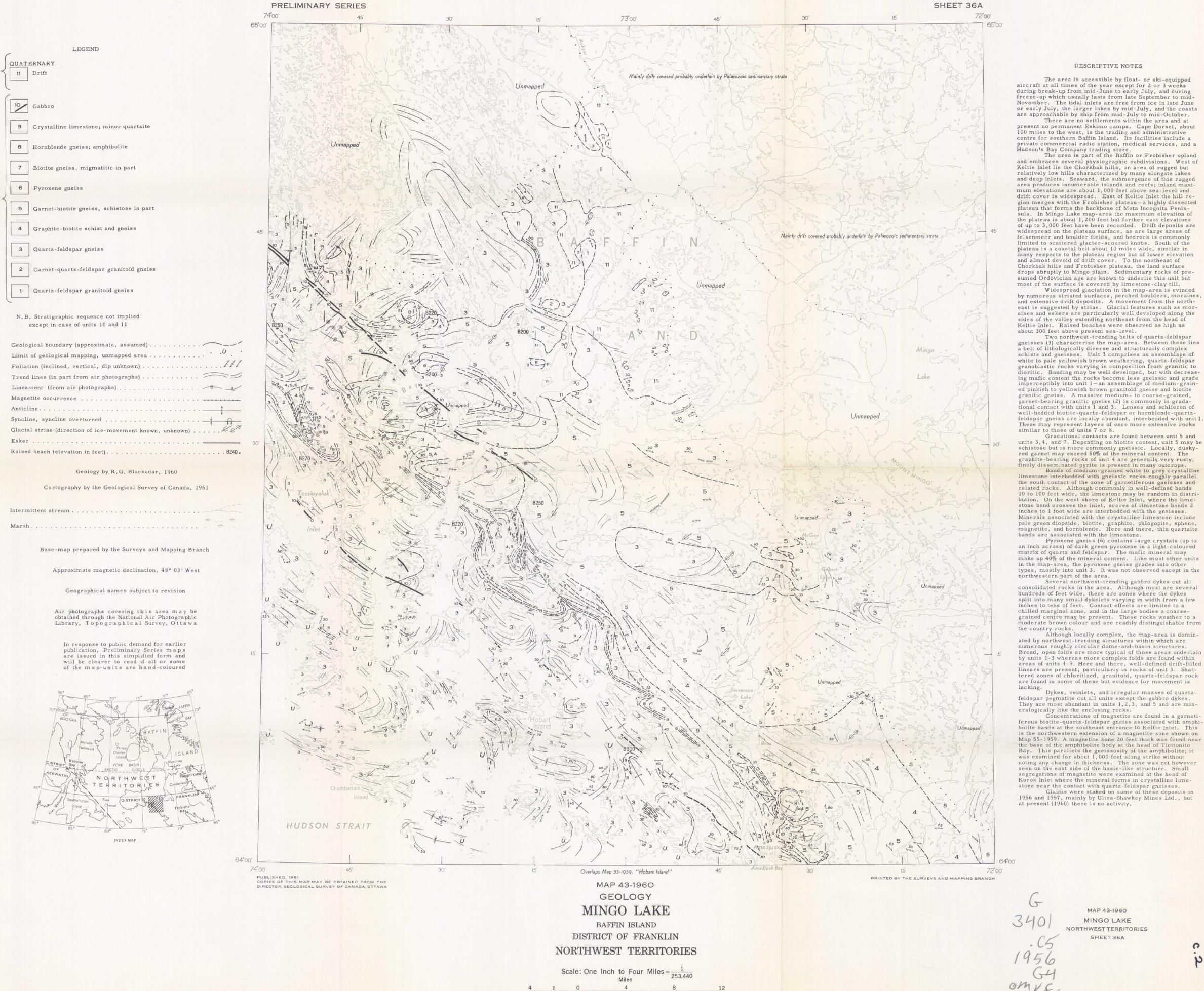


GEOLOGICAL SURVEY OF CANADA DEPARTMENT OF MINES AND TECHNICAL SURVEYS



The area is accessible by float- or ski-equipped during break-up from mid-June to early July, and during November. The tidal inlets are free from ice in late June or early July, the larger lakes by mid-July, and the coasts present no permanent Eskimo camps. Cape Dorset, about

The area is part of the Baffin or Frobisher upland and embraces several physiographic subdivisions. West of relatively low hills characterized by many elongate lakes and deep inlets. Seaward, the submergence of this rugged area produces innumerable islands and reefs; inland maximum elevations are about 1,000 feet above sea-level and drift cover is widespread. East of Keltie Inlet the hill region merges with the Frobisher plateau-a highly dissected plateau that forms the backbone of Meta Incognita Peninsula. In Mingo Lake map-area the maximum elevation of the plateau is about 1,200 feet but farther east elevations of up to 3,000 feet have been recorded. Drift deposits are widespread on the plateau surface, as are large areas of felsenmeer and boulder fields, and bedrock is commonly limited to scattered glacier-scoured knobs. South of the many respects to the plateau region but of lower elevation drops abruptly to Mingo plain. Sedimentary rocks of presumed Ordovician age are known to underlie this unit but

Widespread glaciation in the map-area is evinced by numerous striated surfaces, perched boulders, moraines, and extensive drift deposits. A movement from the northeast is suggested by striae. Glacial features such as moraines and eskers are particularly well developed along the sides of the valley extending northeast from the head of

gneisses (3) characterize the map-area. Between these lies a belt of lithologically diverse and structurally complex schists and gneisses. Unit 3 comprises an assemblage of white to pale yellowish brown weathering, quartz-feldspar granoblastic rocks varying in composition from granitic to dioritic. Banding may be well developed, but with decreasing mafic content the rocks become less gneissic and grade imperceptibly into unit 1-an assemblage of medium-grained pinkish to yellowish brown granitoid gneiss and biotite granitic gneiss. A massive medium- to coarse-grained, garnet-bearing granitic gneiss (2) is commonly in gradational contact with units 1 and 3. Lenses and schlieren of well-bedded biotite-quartz-feldspar or hornblende-quartzfeldspar gneiss are locally abundant, interbedded with unit 1 These may represent layers of once more extensive rocks

Gradational contacts are found between unit 5 and units 3,4, and 7. Depending on biotite content, unit 5 may be schistose but is more commonly gneissic. Locally, duskyred garnet may exceed 50% of the mineral content. The graphite-bearing rocks of unit 4 are generally very rusty;

the south contact of the zone of garnetiferous gneisses and related rocks. Although commonly in well-defined bands 10 to 100 feet wide, the limestone may be random in distri bution. On the west shore of Keltie Inlet, where the limestone band crosses the inlet, scores of limestone bands 2 pale green diopside, biotite, graphite, phlogopite, sphene, magnetite, and hornblende. Here and there, thin quartzite

Pyroxene gneiss (6) contains large crystals (up to an inch across) of dark green pyroxene in a light-coloured matrix of quartz and feldspar. The mafic mineral may make up 40% of the mineral content. Like most other units in the map-area, the pyroxene gneiss grades into other types, mostly into unit 3. It was not observed except in the northwestern part of the area.

consolidated rocks in the area. Although most are several split into many small dykelets varying in width from a few grained centre may be present. These rocks weather to a moderate brown colour and are readily distinguishable from

numerous roughly circular dome-and-basin structures. Broad, open folds are more typical of those areas underlain by units 1-3 whereas more complex folds are found within areas of units 4-9. Here and there, well-defined drift-filled linears are present, particularly in rocks of unit 3. Shattered zones of chloritized, granitoid, quartz-feldspar rock are found in some of these but evidence for movement is

feldspar pegmatite cut all units except the gabbro dykes. They are most abundant in units 1,2,3, and 5 and are min-

is the northwestern extension of a magnetite zone shown on Map 55-1959. A magnetite zone 20 feet thick was found near Bay. This parallels the gneissosity of the amphibolite; it was examined for about 1,000 feet along strike without noting any change in thickness. The zone was not however seen on the east side of the basin-like structure. Small Korok Inlet where the mineral forms in crystalline lime-

Claims were staked on some of these deposits in 1956 and 1957, mainly by Ultra-Shawkey Mines Ltd., but