

Canada
Department of Mines

HON. CHARLES STEWART, MINISTER, CHARLES CAMSELL, DEPUTY MINISTER.

GEOLOGICAL SURVEY
W. H. COLLINS, DIRECTOR.

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LEGEND

- 5 Dykes of olivine-bearing diabase
- KILLARNEAN BATHOLITHIC INTRUSIVES**
- 4e Nepheline and associated syenites; unspkette, litchfieldite, etc.
- 4d Garnetiferous syenite
- 4c Diorite
- 4b Pink and grey granites and quartz-syenites, some equigranular and others porphyritic
- 4a Stratiform mixture of pink and grey paragneisses and orthogneisses. The orthogneisses are closely related to 4b above; the paragneisses are, in considerable part at least, metamorphosed equivalents of the Huronian formations. Proportion of orthogneisses is less than in corresponding division in the adjacent Parache and Collins Inlet quadrangles.
- BASIC INTRUSIVES**
- 3 Dykes and other small bodies of quartz diabase, metamorphosed
- COBALT SERIES**
- Co 2 LORRAIN QUARTZITE
Highly metamorphosed and recrystallized quartzite, well bedded and conglomeratic in places
- Co 1 GOWGANDA FORMATION
Grey and pink paragneisses, and conglomerates
- BRUCE SERIES**
- B 5 SERPENT FORMATION
White quartzite interbedded with conglomerate which is altered to sericitic gneiss in many places
- B 4 ESPANOLA FORMATION
Biotite and garnet gneiss in thin layers, bedded gneisses and some amphibolites
- UNDIFFERENTIATED**
- U 3 Amphibolites
- U 2 Quartzites
- U 1 Biotite, garnet, and hornblende gneisses, highly quartzitic pink gneisses, and other paragneisses

NOTE:—The sedimentary rocks, with the exception of some bodies of quartzite, are so profoundly metamorphosed to paragneisses that they bear little resemblance to the much less metamorphosed sediments that underlie the northwestern part of the adjacent Parache and Collins Inlet quadrangles.

- Geological boundary (defined)
- Geological boundary (approximate)
- Geological boundary (assumed)
- Strike and dip
- Vertical strata
- Horizontal strata
- Road and buildings
- Road not well travelled
- Bush road, trail or portage
- Rapid or fall

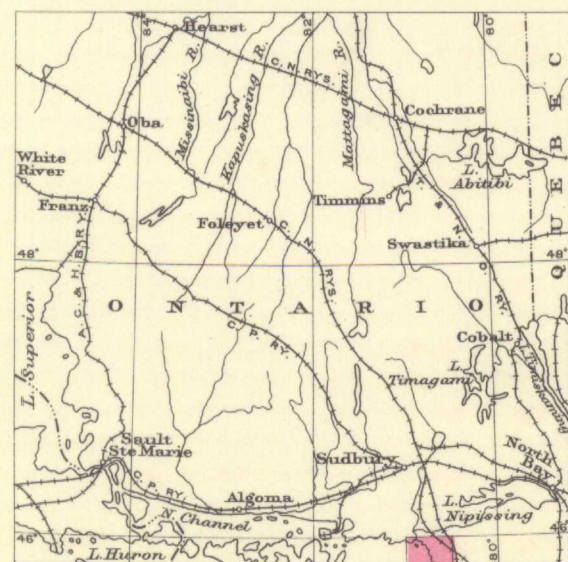
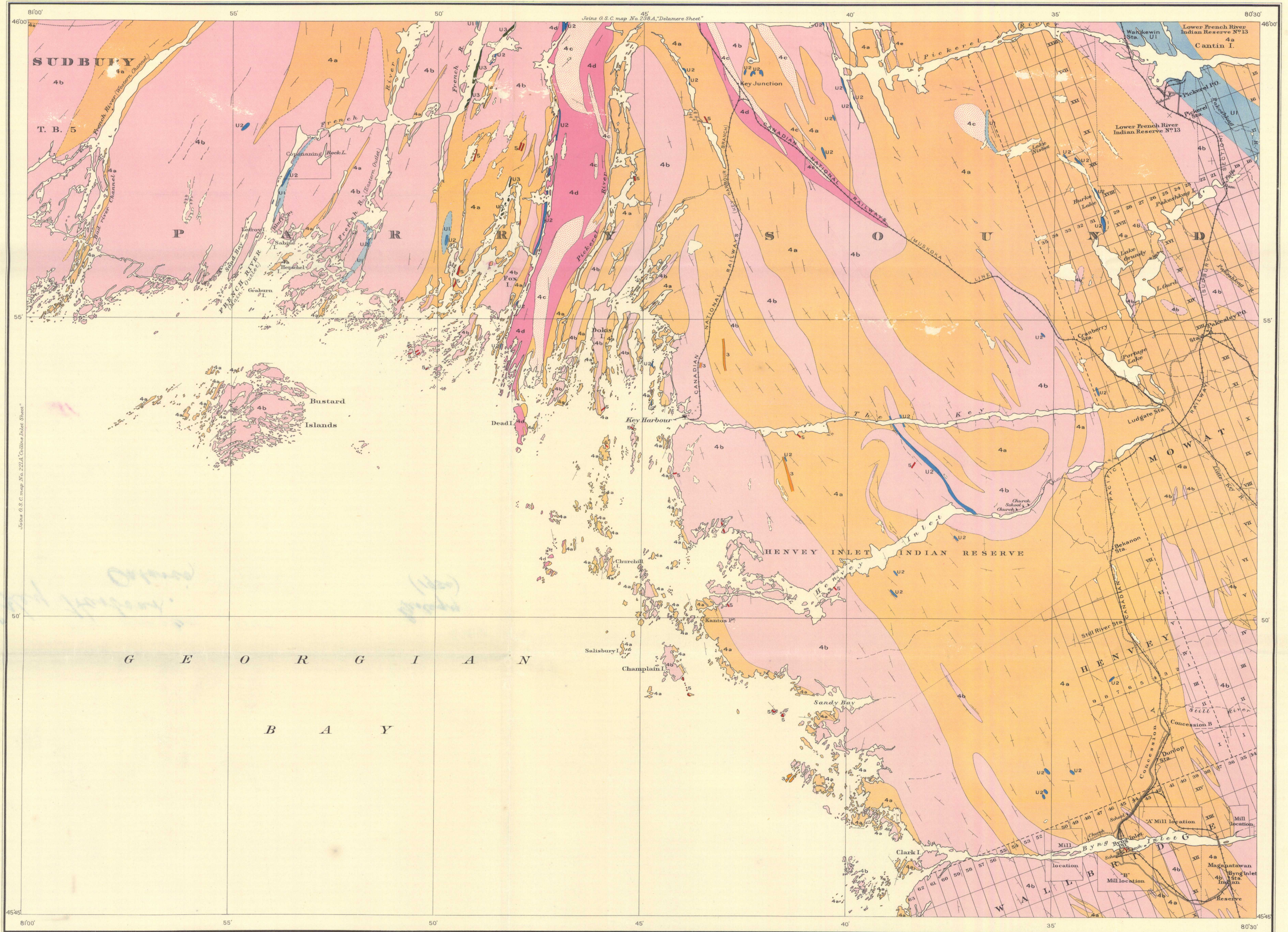
Magnetic North
True North

Approximate magnetic declination 7^o, West.

SOURCES OF INFORMATION

Geology by T. T. Quirk, 1925, 1927.
Surveys by D. A. Nichols, 1925, A. G. Haultain, 1925-26-27.
T. T. Quirk, 1927, and the Department of Lands and Forests, Ontario.

To accompany Memoir by T. T. Quirk



MAP 239 A
KEY HARBOUR SHEET
PARRY SOUND AND SUDBURY DISTRICTS
ONTARIO

Scale, 62500 or 1 Inch to 1 Mile
Miles
Kilometres

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