

LEGEND

Post-Hudsonian	33	Diabase
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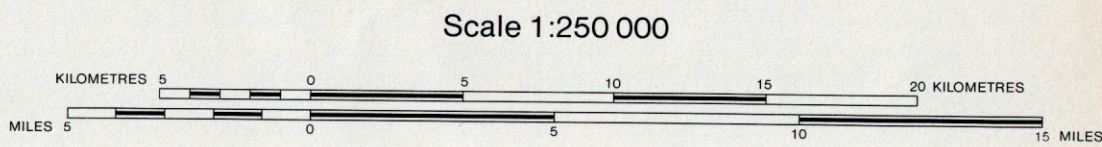
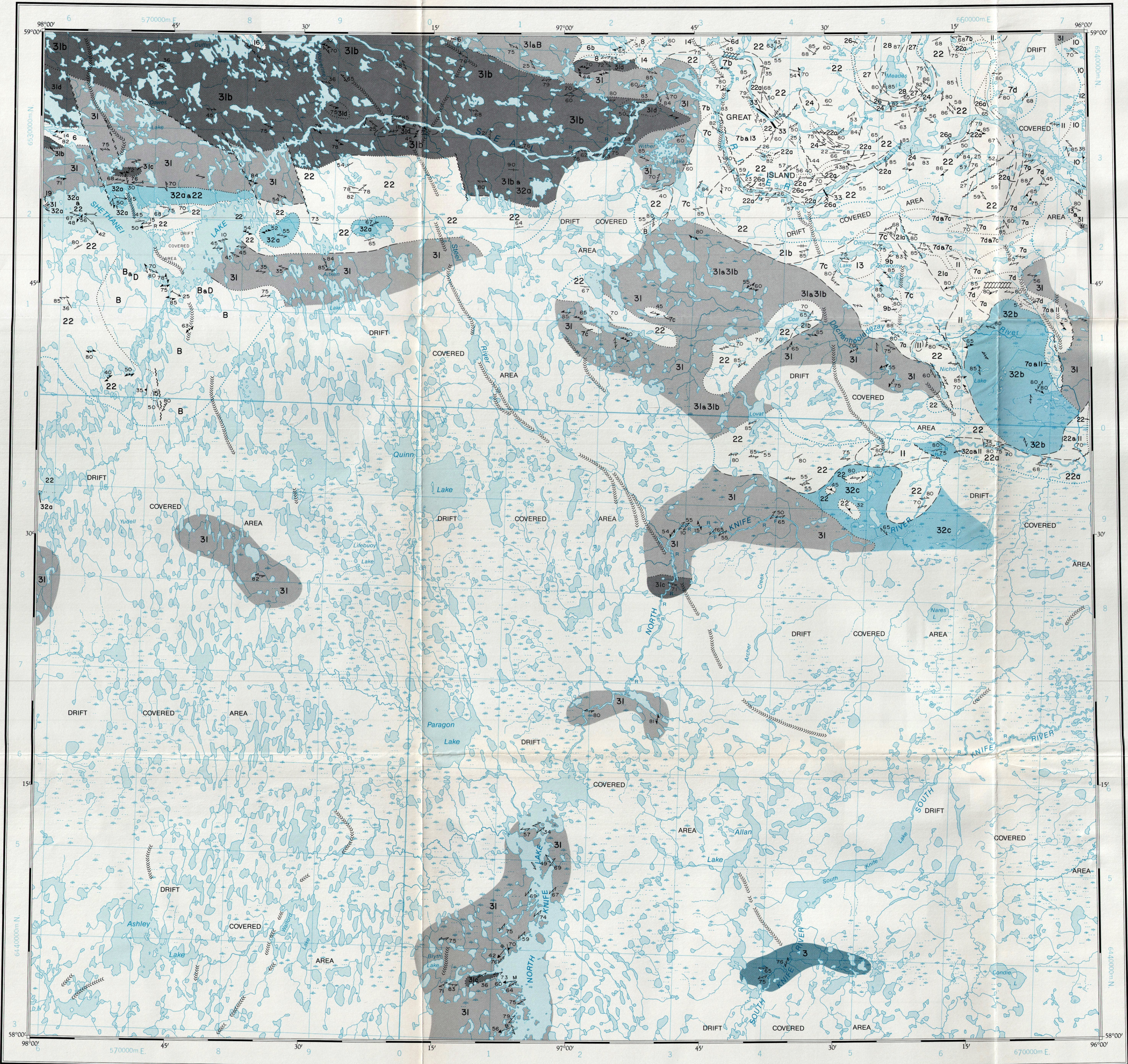
Hudsonian Intrusive and Hybrid Rocks	32	Pink porphyritic quartz monzonite; 32a) pink and/or white granite pegmatite; 32b) pink fluorite-bearing quartz monzonite; 32c) White fluorite-bearing quartz monzonite; 32d) Red granite, coarse grained to pegmatitic ± fluorite; 32e) Quartz-feldspar porphyry
	31	Quartz monzonite, medium- to coarse-grained, massive to foliated ± apilite ± pegmatite zones
	31a,b,c,d	31a) Hybrid quartz monzonite; 31b) Pink apilite ± hornblende; 31c) Well foliated biotite ± magnetite granite gneiss; 31d) Hybrid gneiss
	30	White granite to trondhjemite, medium grained, cordierite-bearing ± tourmaline; 30a) Porphyritic white granodiorite

SEQUENCE I	SEQUENCE II
20	Meta-arkose; derived arkosic gneiss with metatextite
19	Feldspathic quartzite with faserlikeiesel of muscovite-sillimanite-quartz
18	Quartzite ± andradite ± diopside ± epidote
17	Calc-silicate rocks; 17a) Marble ± quartz ± tremolite; 17b) Albite-pyroxene rock
16	Biotite psammite gneiss ± calc-silicate lenses
29	"Churchill quartzite"
28	Metasiltstone and meta-argillite
27	Metagreywacke
26	Garnet amphibole schist (iron formation) ± pyrrhotite ± magnetite; 26a) Black pyritic meta-argillite ± black acicular amphibole-garnet
25	(North Knife River) Black meta-argillite with quartz pebbles
24	Dolomitic marble ± quartz ± clinocllore
23	(Tadoule Lake) Metaconglomerate with muscovite-biotite-quartz siltstone matrix with quartzite clasts; interlayered grey siltstone with pebble beds
22	Quartzite and interlayered pale green phyllite to biotite-muscovite schist ± garnet; 22a) Grey to grey-green phyllite ± andalusite ± biotite poikiloblasts
21a	Conglomerate oligomictic
21b	Conglomerate polymictic
15	Metagabbro in part noritic; metabasic rocks
14	Quartz porphyry
13	Pink to grey, very fine grained feldspar porphyry
12	Ultramafic and serpentinite
11	Gabbro
10	Granodiorite to porphyritic quartz diorite
9a	Conglomerate, volcanic derived
9b	Conglomerate and greywacke
9c	Metasiltstone (± uvarovite)
8	Amphibolite
7a, b, c, d	7a) Andesite and minor basalt; 7b) Interlayered tuff and pillowed andesite; 7c) Intermediate tuff, lapilli tuff and interlayered siliceous metasedimentary rocks, local rhyodacite and andesite flows; 7d) Rhyolite to rhyodacite

Aphebian and Possible Archean	6	Semi-pelitic paragneiss to metatextite ± muscovite ± cordierite ± garnet ± sillimanite ± andalusite ± hypersthene; 6a) Semi-pelitic paragneiss to schist and interlayered, impure quartzite; 6b) Impure quartzite to quartzite; 6c) Augen gneiss; 6d) Biotite-feldspar gneiss with granodiorite /its
	5	Foliated quartz monzonite
	4	Foliated alaskite
	3	Metadiorite to amphibolite and magnetite-biotite-hornblende schist
	2a, b, c	2a) Hypersthene-quartz diorite; 2b) Hypersthene trondhjemite; 2c) Hypersthene-quartz monzonite (monzocharnokite)
	1	Hypersthene gneiss

Rocks of Uncertain Affinity	A	Grey tonalitic to granodioritic gneisses
	B	Foliated to lineated biotite granodiorite to tonalite
	C	Granodiorite diatextite to biotite metatextite ± garnet
	D	Amphibolite

Units occurring on this map are indicated in heavy type



MAP GR80-9-3

SHETHANEI LAKE

SYMBOLS

- Geological boundary (defined, approximate, assumed, underwater, gradational)
- Bedding, tops known (inclined, vertical, overturned)
- Bedding, tops unknown (inclined, vertical, dip unknown)
- Bedding, tops unknown and parallel schistosity (inclined)
- Metamorphic layering (inclined, vertical, amount of dip unknown)
- Inclusion layering (inclined)
- Igneous layering, tops unknown (inclined)
- Igneous layering, tops unknown (inclined, dip unknown)
- Pillow, tops known (inclined)
- Pillow, tops unknown (inclined)
- Metamorphic layering and parallel gneissosity (inclined, vertical, amount of dip unknown)
- Metamorphic layering and parallel schistosity (inclined)
- Gneissosity (inclined, vertical, dip unknown)
- Schistosity (inclined, vertical, dip unknown)
- Cataclastic foliation (inclined)
- Fracture cleavage—strain slip cleavage (inclined)
- Mineral lineation (plunge indicated)
- Boudin axes (inclined)
- Rodding, mullion structure (inclined)
- Minor folds:
  - axis (inclined)
  - axial plane (inclined)
  - symmetry (asymmetrical Z-shaped, asymmetrical S-shaped, symmetrical)
- Fault (assumed, approximate)
- Sheared zone
- Esker
- Limit of drift covered area

Geological Services Branch, Mineral Resources Division, Winnipeg  
To accompany MRD Geological Report GR80-9

Geology by

D.C.P. SCHLEDEWITZ 1974-1978

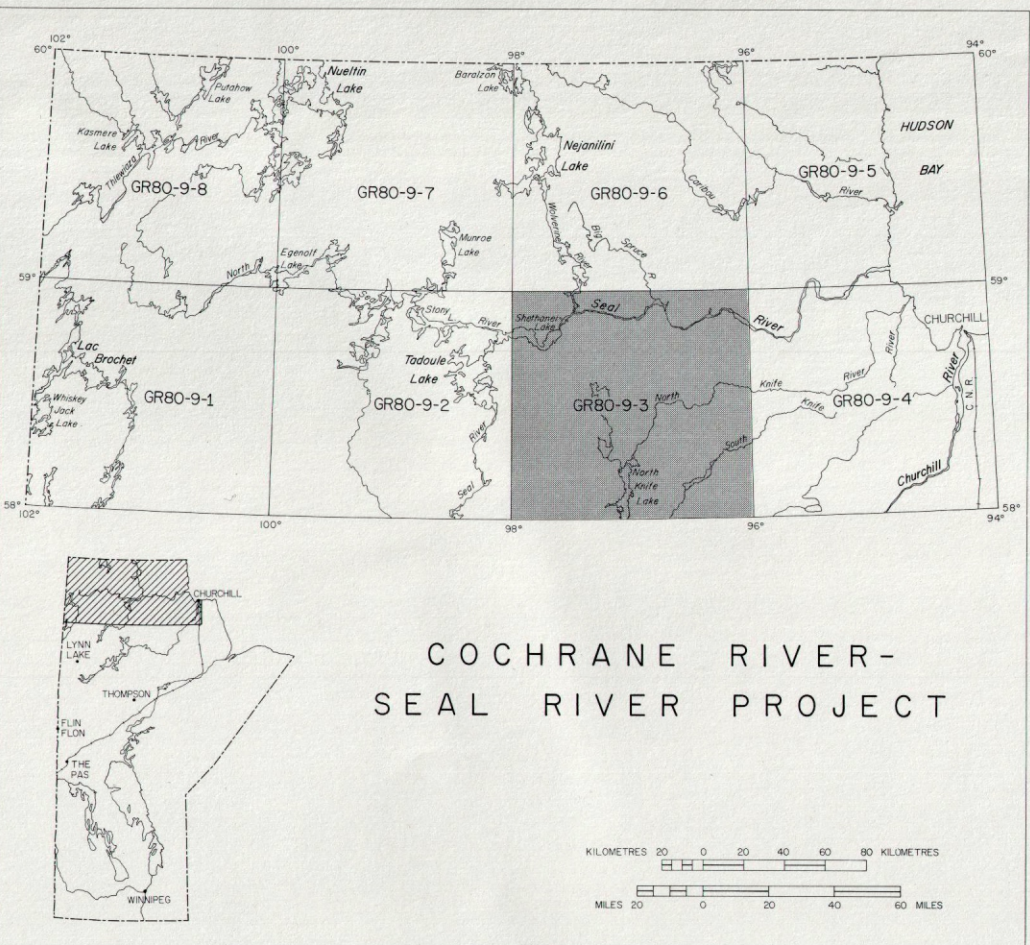
Cartography by

P. BUONPENSIERE

INDEX MAP

The corresponding sheet of the National Topographic Series is 64 - I

The magnetic declination at the centre of the map is approximately 6° 57' East (1981) and is decreasing by 16.7' annually



COCHRANE RIVER-  
SEAL RIVER PROJECT

