GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

Note: This legend is common to maps 1330A, 1331A and 1332A

PALEOZOIC

PENNSYLVANIAN

15 — *CLIFTON FORMATION:* grey to brown mudstone, shale siltstone, sandstone, quartz-pebble conglomerate

14 — *BATHURST FORMATION:* red sandstone, shale, grit, quartz-pebble conglomerate

DEVONIAN

MIDDLE DEVONIAN

13 — *Granitic rocks:* 13a, *Bathurst granite batholith;* 13b, *Ninemile Brook granite porphyry;* 13c, *Nicholas Denys granodiorite stock*

MIDDLE DEVONIAN OR OLDER

12 — *Basic and ultrabasic rocks:* 12a, *diabase, diorite, gabbro;* 12b, *serpentinized peridotite*

LOWER DEVONIAN

DALHOUSIE GROUP (9-11)

11 — *Upper Unit: greenish grey limy quartz greywacke, siltstone, shale, limestone; minor basalt, andesite*

10 — *Middle Unit:* 10a, *greenish grey basalt, andesite; minor trachyte, rhyolite, agglomerate, conglomerate;* 10b, *pink, buff and red trachyte, rhyolite, agglomerate; minor conglomerate, shale*

9 — *Lower Unit: grey and greenish grey limy shale, slate, siltstone, greywacke, limestone; minor basalt*

SILURIAN OR DEVONIAN

8 — *Greenish grey and reddish grey sericitic quartz greywacke and phyllite*

SILURIAN

MIDDLE AND UPPER SILURIAN

CHALEURS BAY GROUP (4-7)

7 — *Volcanic Unit:* 7a, *red rhyolite and trachyte flows and tuffs, feldspar and quartz-feldspar porphyry, green and red andesite and basalt;* 7b, *red conglomerate, greywacke, siltstone, shale; minor rhyolite and basalt flows and tuffs;* 7c, *red and greenish grey basalt and andesite; red rhyolite and trachyte flows and tuffs, red conglomerate*

6 — *Limy sedimentary Unit:* 6a, *greenish grey and red limy slate, shale, quartz greywacke, shaly limestone, grit, basalt;* 6b, *red and grey limy greywacke, siltstone, slate, shaly limestone, shale, conglomerate; andesite*

5 — *Conglomerate Unit: green, grey and red volcanic conglomerate, greywacke, slate*

4 — *Greywacke Unit:* 4a, *greenish grey limy greywacke, slate, limestone, chert, hornfels;* 4b, *green and red greywacke, slate, conglomerate, limestone; basalt, rhyolite*

ORDOVICIAN

MIDDLE ORDOVICIAN

TETAGOUCHE GROUP (1-3) *(units have no stratigraphic significance)*

3a 3b — *Rhyolitic Unit:* 3a, *light to dark grey and greenish grey rhyolite tuff, rhyolite, quartz-sericite schist, trachyte, rhyolite crystal tuff (mainly quartz-feldspar augen schist); phyllite, greenstone;* 3b, *light to dark grey and greenish grey rhyolite crystal tuff (mainly quartz-feldspar, quartz and feldspar augen schists), rhyolite tuff, quartz-sericite schist; phyllite, rhyolite, greenstone, granophyre*

2 — *Metabasalt Unit: greyish green, massive, schistose and grey laminated (tuff ?) greenstone, greenish grey spilite, dark slate, iron-formation, chlorite schist; trachyte, rhyolite tuff;* 2a, *iron-formation*

1 — *Sedimentary Unit: dark grey to greenish grey slate, phyllite, quartz greywacke, siltstone, quartzite; red and green cherty argillite and slate, graphitic slate and schist, greenstone; minor limestone, arkosic grit, conglomerate, rhyolite crystal tuff*

Drift covered area
Rock outcrop
Geological boundary (defined, approximate, assumed)
Bedding, tops known (horizontal, inclined, vertical, overturned)
Bedding, tops unknown (inclined, vertical, dip unknown)
Pillows, tops known (inclined, overturned, dip unknown)
Cleavage, schistosity (inclined, vertical, dip unknown)
Lineation axes of minor folds (plunge known)
Lineation axes of minor folds (drag direction shown)
Lineament (from air photographs)
Fault (defined, approximate, assumed)
Anticline (defined, approximate)
Syncline (defined, approximate)
Anticline or syncline (arrow indicates plunge)
Glacial striae (direction of ice movement known, unknown)
Stoss and lee form (direction of ice movement known)
Esker
Fossil locality
Granite quarry
Mine
Mineral prospect or occurrence — Fe
Adit

Rock type symbols:
A, *agglomerate;* c, *conglomerate;* V, *basic volcanic;* T, *basic tuff;* t, *trachyte;* ls, *limestone;* P, *rhyolite crystal tuff;* S, *sedimentary rock;* R, *rhyolite;* D, *diabase or gabbro;* p, *peridotite*

MINERALS

Antimony	Sb	*Lead*	Pb
Arsenic	As	*Manganese*	Mn
Copper	Cu	*Molybdenum*	Mo
Gold	Au	*Silver*	Ag
Iron	Fe	*Zinc*	Zn

Geology by R. Skinner, 1951, 1952; R.A. Jones and J.C. Smith, 1957

Geology compiled by Ralph Skinner

To accompany GSC Memoir 371 by Ralph Skinner

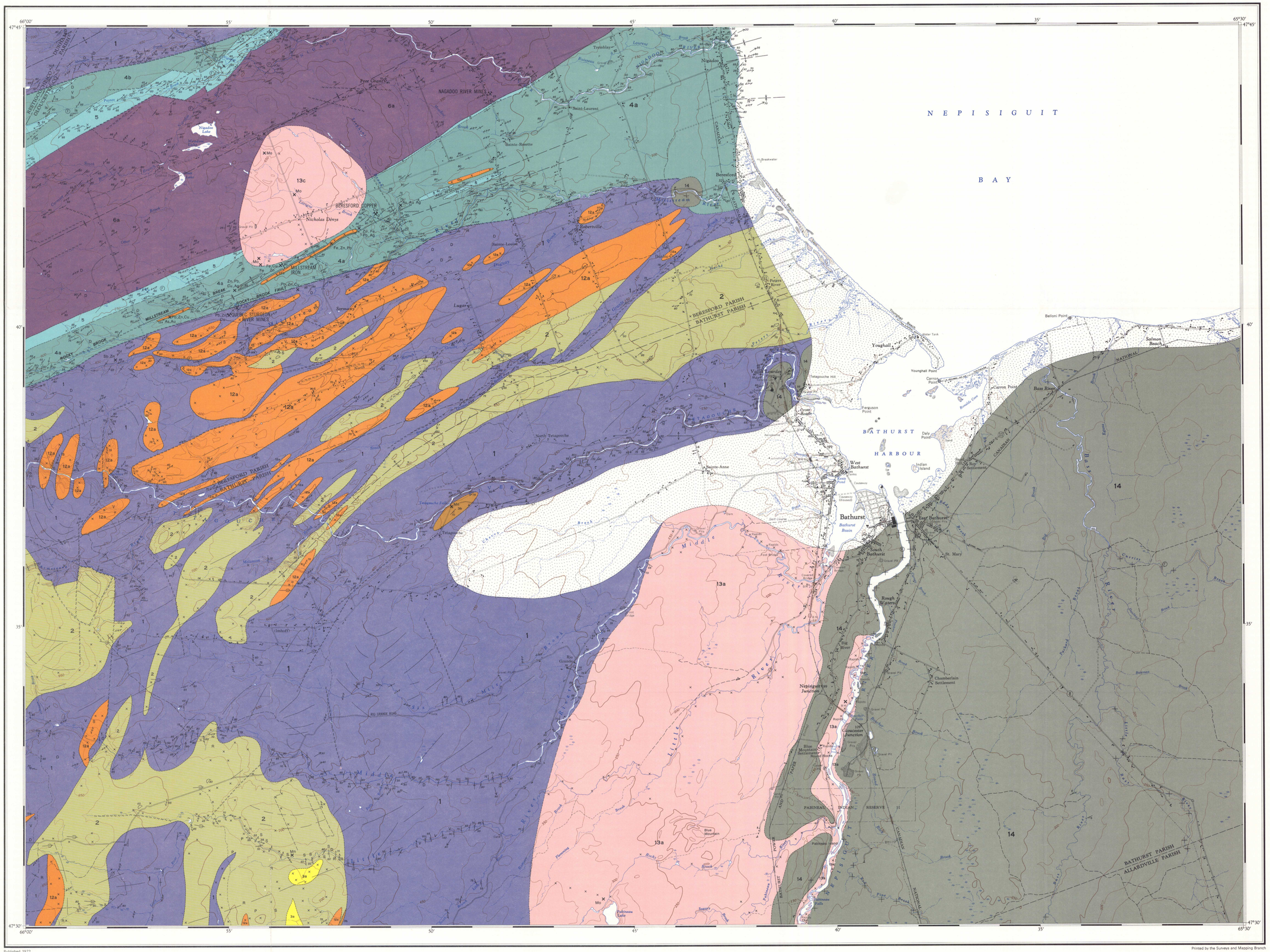
Geological cartography by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1956

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1971, 23°07' West, decreasing 2.8 annually

Elevations in feet above mean sea-level



Published, 1972
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

INDEX MAP

MAP 1331 A

GEOLOGY

BATHURST

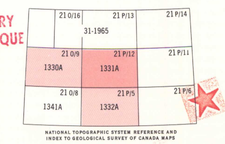
NEW BRUNSWICK

Scale 1:50,000

Miles 1 0 1 2 Miles

Metres 1000 0 1000 2000 3000 Metres

Printed by the Surveys and Mapping Branch



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

BATHURST
NEW BRUNSWICK
1331A

612 can 1900 c