

**LEGEND**

**SEDIMENTARY ROCKS**

**CENOZOIC**

**QUATERNARY RECENT**

Qal Alluvium: sand, silt, clay, gravel

**PLEISTOCENE OR RECENT**

Qm Marine deposits: clay, silt, sand, gravel

**PLEISTOCENE**

Qg Glacial-fluvial deposits: gravel

**TERTIARY PALEOCENE OR EOCENE**

Tpe Unnamed Paleocene/Eocene sandstones; carbonaceous sandstones

**CRETACEOUS**

**UPPER CRETACEOUS**

Ke EUREKA SOUND FORMATION: sandstone, siltstone, shale, lignite

Kk KANGUK FORMATION: shale, minor tuff beds

**LOWER AND UPPER CRETACEOUS**

Kh HASSEL FORMATION: sandstone, minor shale, coal, tuff; Khv1: lower volcanic flow; Khv2: upper volcanic flow

**LOWER CRETACEOUS**

Kc CHRISTOPHER FORMATION: Kc (informal lower member): shale, with glauconitic sandstone in upper part; Kcu (informal upper member): shale, with calcareous sandstone in upper part; Kc (undivided Kc and Kcu): shale, with minor siltstone, sandstone

Ki ISACHSEN FORMATION: sandstone, siltstone, shale, minor coal

**JURASSIC AND CRETACEOUS**

**UPPER JURASSIC AND LOWER CRETACEOUS**

JkD DEER BAY FORMATION: JKdA (Amund Ringnes Island): silty shale; JKdB (Amund Ringnes Island): glauconitic sandstone; JKdC: silty shale; JKdD: locally glauconitic sandstone; JKdE: silty shale, with thin sandstones near top; JKd (undivided Deer Bay Formation): silty shale

**JURASSIC**

**UPPER JURASSIC**

Ja AWINGAK FORMATION: sandstone, partly shaly; local coal

Jr RHINGES FORMATION: shale, very large yellow-buff concretions; minor sandstone

**MESOZOIC**

**UPPER(?), MIDDLE AND LOWER JURASSIC**

Js SAVIK FORMATION: Js (Lower Member): subsurface only; JsU (Upper Member): shale, local sandstone beds on Cornwall Island; Js (undivided Savik Formation): shale, local glauconitic siltstone

**MIDDLE AND LOWER JURASSIC**

Jb BORDEN ISLAND FORMATION AND HEIBERG FORMATION (Upper Member): sandstone, partly bioturbated

Jc JAEGER FORMATION: JcA: clayey sandstones and sandy shales; JcB: partly pebbly, partly glauconitic, partly phosphatic sandstones; JcC: silty, sandy shale; JcD: partly glauconitic, partly phosphatic sandstones

**LOWER JURASSIC**

Jd BORDEN ISLAND FORMATION AND HEIBERG FORMATION (Lower Member): sandstone, pebbly lenses; red-brown ferruginous lenses and beds

**TRIASSIC AND JURASSIC**

**UPPER TRIASSIC AND LOWER JURASSIC**

Tjhu HEIBERG FORMATION (Upper Member): sandstone, minor coal

**TRIASSIC**

**UPPER TRIASSIC**

Tth HEIBERG FORMATION (Lower Member): sandstone, as thin to thick intervals; with shale, as thin to thick intervals

**UPPER(?), MIDDLE AND LOWER(?) TRIASSIC**

Tba BLAA MOUNTAIN FORMATION AND BLIND FIORD FORMATION: undivided (subsurface only); shale, siltstone, sandstone

**Tbb BLAA MOUNTAIN AND BLIND FIORD FORMATIONS:** undivided (subsurface only); shale, siltstone, sandstone

**INTRUSIVE ROCKS**

**CRETACEOUS AND ? OLDER (radiometric ages)**

Gabbro dykes and sills (gd)

**PALEOZOIC**

**MISSISSIPPIAN AND PENNSYLVANIAN (age of parent rock)**

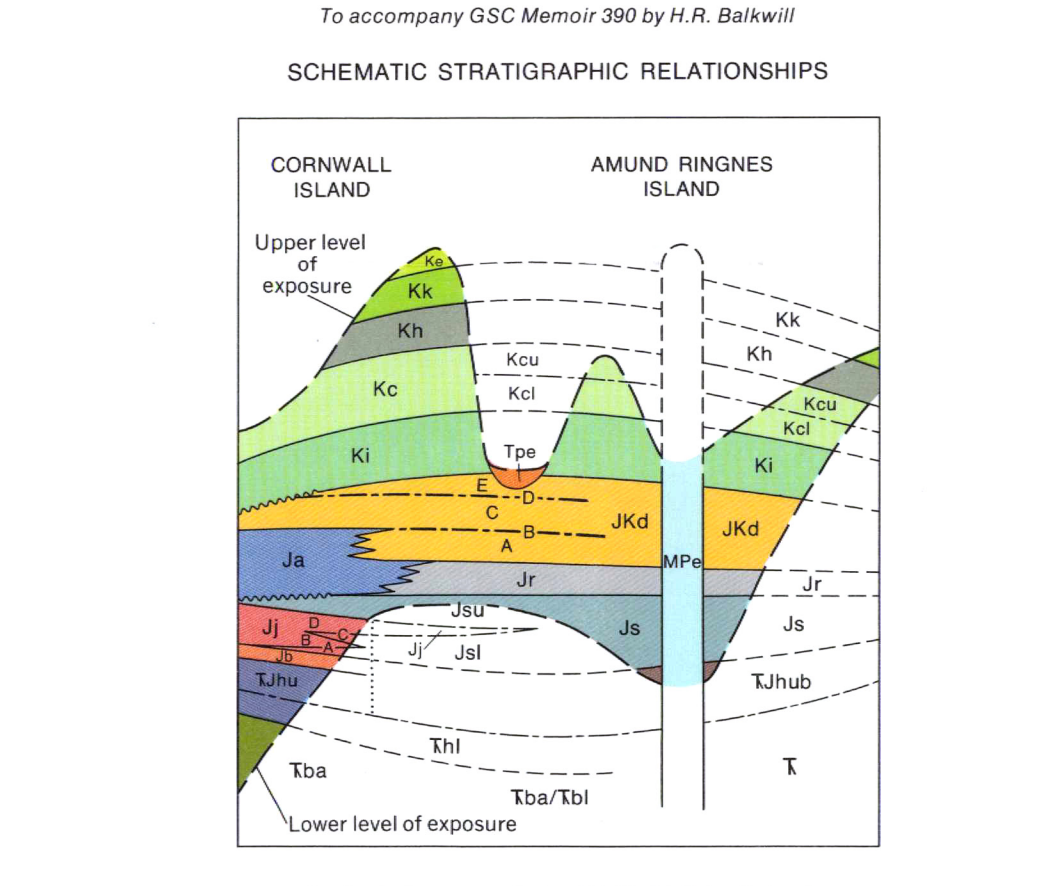
MPa Diapiric domes and dykes: gypsum, with nodular blocks and masses of anhydrite, dolomite and limestone (MPa); and gabbro of unknown age (g1)

Geological boundary (defined, approximate, assumed) .....  
 Intraformational contact (defined, approximate) .....  
 Intraformational marker (defined, approximate) .....  
 Bedding (ground observation; inclined, vertical) .....  
 Bedding (from air photograph or observed from aircraft; dip direction) .....  
 Foliation (inclined, vertical) .....  
 Fault (defined, approximate; solid circle indicates downthrow side) .....  
 Anticline (defined, approximate; arrow indicates plunge) .....  
 Syncline (defined, approximate; arrow indicates plunge) .....  
 Fossil locality (DSC catalogue number) .....  
 Radiometric age determination (age in m.y.) .....  
 Stratigraphic section studied, showing approximate line of traverse (BAA, H.R. Balkwill; RV, K.J. Roy; WR, D.G. Wilson) .....  
 Structural cross-section

Geology by H.R. Balkwill based on studies of vertical air photographs and ground and air observations by H.R. Balkwill, W.S. Hopkins, Jr., K.J. Roy, W.V. Siler, and D.G. Wilson (1971-1974).

Geological compilation by H.R. Balkwill

To accompany GSC Memoir 390 by H.R. Balkwill



Geological cartography by J.H. Waddell, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

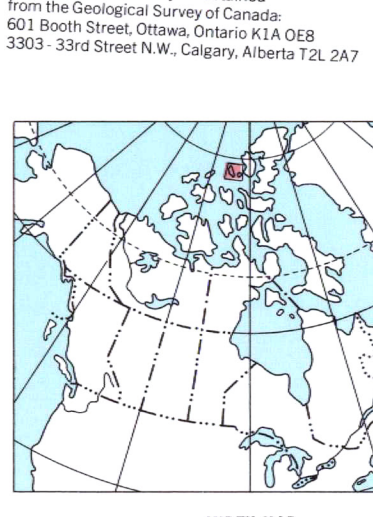
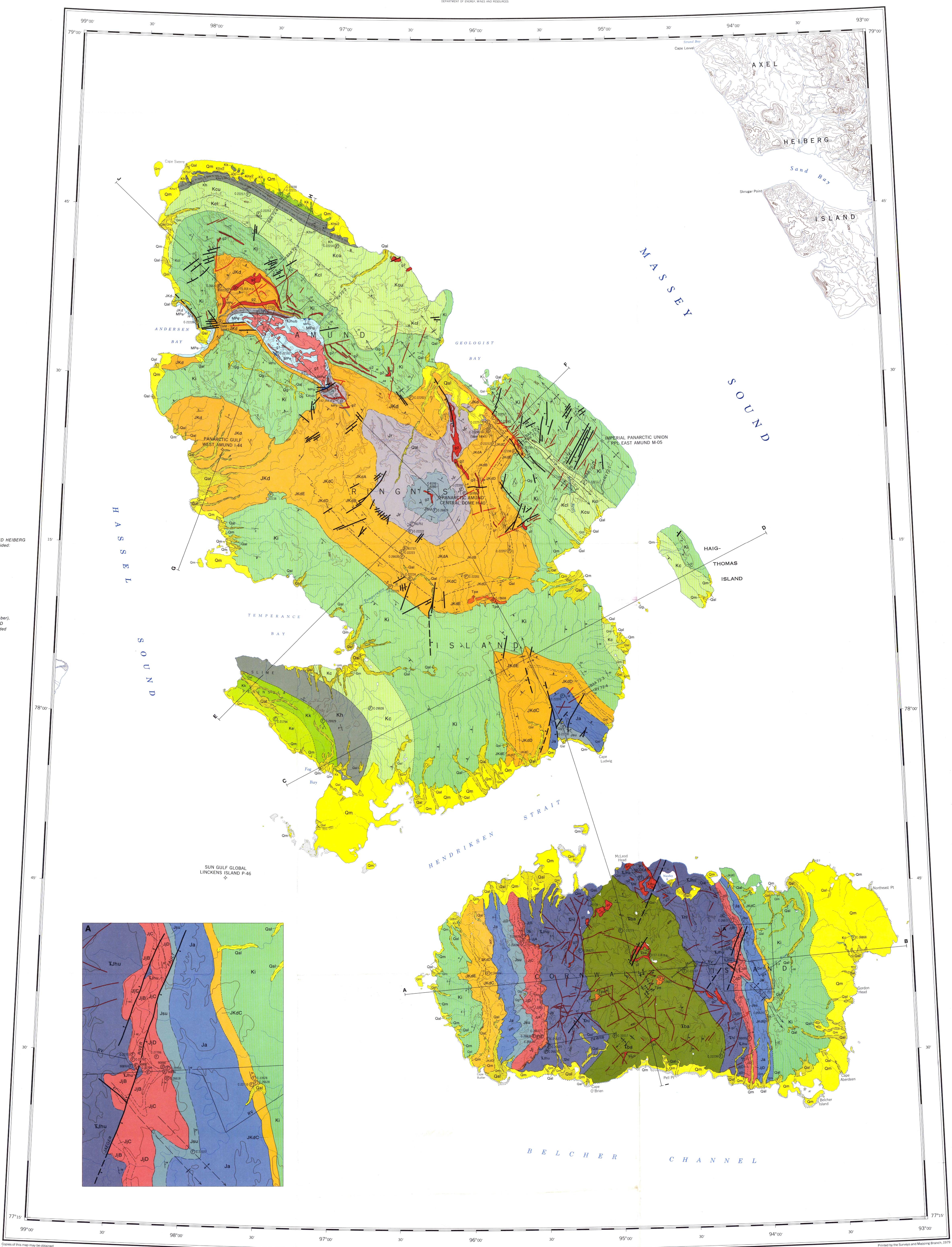
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale from parts of 1:250 000 scale maps "Cape Nathorst", "Cornwall Island", "Haig-Thomas Island", and "Hassel Sound", published by the Surveys and Mapping Branch, 1965 and 1966

Copies of the topographical edition of these maps may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

The daily change of the North Magnetic Pole causes the magnetic compass to be very erratic in this area

Elevations in feet above mean sea level



MAP 1471A  
GEOLOGY  
**AMUND RINGNES, CORNWALL,  
AND HAIG-THOMAS ISLANDS**  
DISTRICT OF FRANKLIN

Scale 1:250,000

Kilometres 0 6 12 18  
Miles 0 4 8

Transverse Mercator Projection  
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