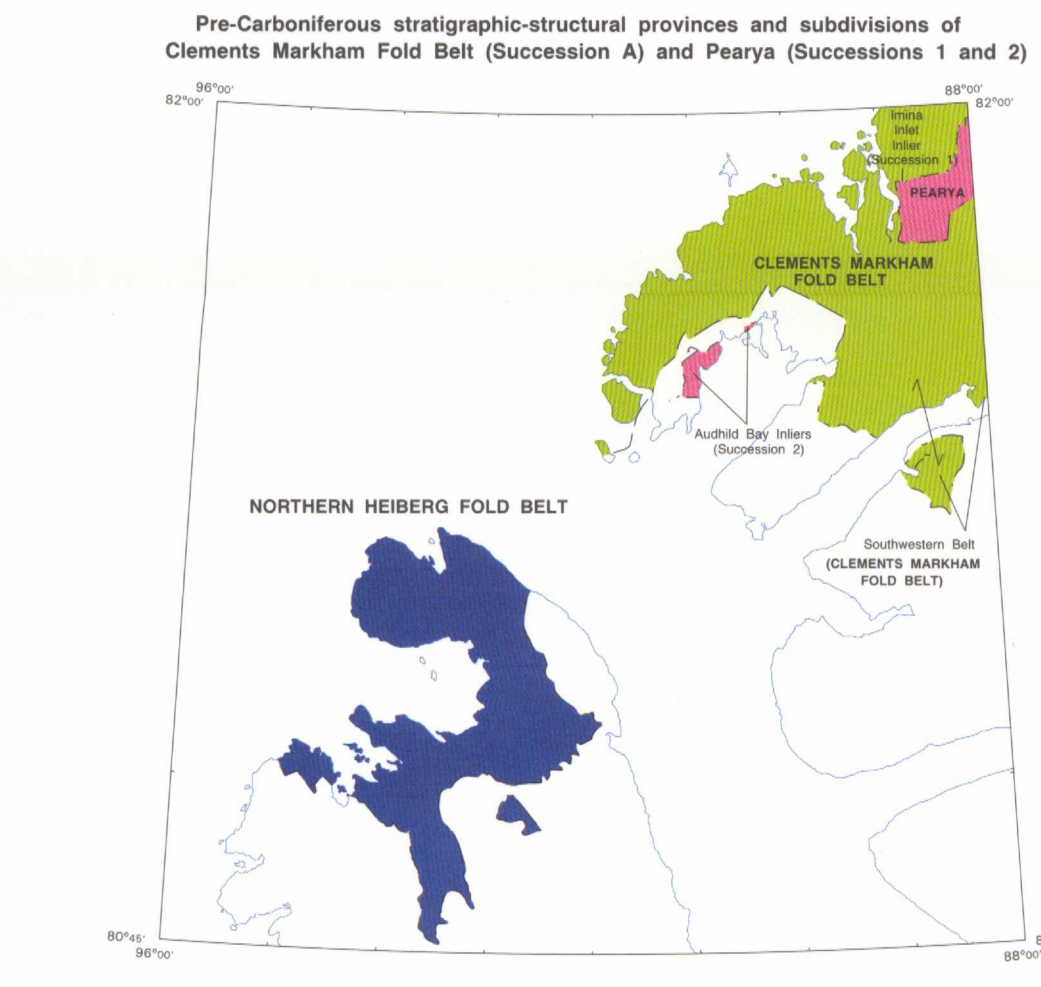


- QUATERNARY**  
Q Unconsolidated sediments (shown only where bedrock geology cannot be interpreted with reasonable certainty)
- TERTIARY PALEOGENE**  
TE EUREKA SOUND GROUP: sandstone, conglomerate, mudrock, minor coal
- CRETACEOUS**  
UPPER CRETACEOUS  
KHP HANSEN POINT VOLCANICS: alkali basalt, trachyte, felsic tuff, conglomerate, mudrock, sandstone, minor coal
- TRIASSIC AND JURASSIC**  
UPPER TRIASSIC AND LOWER JURASSIC  
TUJ HEBBERG FORMATION: sandstone, siltstone, shale
- TRIASSIC**  
MIDDLE AND UPPER TRIASSIC  
TBA BLAA MOUNTAIN GROUP: shale, siltstone, in part calcareous, minor sandstone  
LOWER TRIASSIC  
TBF BLIND FJORD FORMATION: siltstone, minor shale, sandstone, conglomerate
- PERMIAN**  
LOWER PERMIAN  
PV VAN HAUEN FORMATION: siltstone, limestone, chert, sandstone, shale (at dark coloured)  
ESAYOY FORMATION: basaltic flows and tuff
- Carboniferous-Lower Permian facies belts**  
Carbonate belt
- CARBONIFEROUS AND PERMIAN**  
UPPER CARBONIFEROUS AND LOWER PERMIAN  
CPN HANSEN FORMATION: limestone, minor sandstone, mudrock, dolomite  
CPN+ may include Blind Fjord Formation (Carboniferous) and/or van Hauen Formation (Lower Permian) and/or Degebole Formation  
CPN- includes Bloup Fjord Formation
- CARBONIFEROUS**  
UPPER CARBONIFEROUS  
CAL AUDHILD FORMATION: basaltic flows and minor tuff (altered)
- LOWER AND UPPER CARBONIFEROUS**  
CBF BOKFJORD FORMATION: sandstone, conglomerate, minor siltstone, shale, limestone (mostly redbeds)  
CBF+ includes Hansen Formation  
CBF- includes Emma Fjord Formation
- LOWER CARBONIFEROUS**  
CE EMMA FJORD FORMATION: dark grey mudrock; minor sandstone, coal
- NORTHERN HEBBERG FOLD BELT**  
UPPER SILURIAN(?) AND LOWER DEVONIAN  
SDR STALLWORTHY FORMATION (D8i-D8s)  
D8s Member C: red and green mudrock; minor sandstone (quartzite; minor calcareous, rhyolite); chert pebble conglomerate, locally argillaceous limestone with fossil fish  
D8s+ includes Hansen Formation  
D8s- includes Emma Fjord Formation  
D8i Member B: quartzite sandstone, chert pebble and cobble conglomerate and breccia; lesser siltstone (some redbeds)  
D8i Member A: chert pebble conglomerate, quartzite sandstone, siltstone (some redbeds)
- SILURIAN**  
LOWER SILURIAN  
SSV2 SVARTEVAEG FORMATION (Ssv1-Ssv2)  
Ssv2 Member B: mainly volcanogenic sandstone, mudrock, and minor conglomerate (sediment gravity-flow deposits); minor andesitic tuff; rare carbonate conglomerate  
Ssv1 Member A: volcanic flows and less common tuffs (andesite and andesite/basalt); minor carbonate olistoliths
- CAMBRIAN TO SILURIAN**  
LOWER CAMBRIAN TO LOWER SILURIAN  
C-SH HAZEN FORMATION: chert, minor mudrock (probably mainly chert member but may include chertified carbonate member)  
C-SH+ carbonate member; lime mudstone, calcarenite dolomite, carbonate conglomerate (all redbedded)
- CAMBRIAN**  
LOWER CAMBRIAN  
CG GREAT LAND FORMATION: quartzite, phyllite, slate (grey, purple, green); minor pebble conglomerate, siltstone (common sediment gravity-flow deposits)  
CG+ may include Hazen Formation (chert member)  
CG- dolomite associated with Great Land Formation (fault slices and/or olistoliths of Aurland Fjord beds?)
- CAMBRIAN AND/OR OLDER**  
EARLY CAMBRIAN AND/OR OLDER (Stratigraphic order uncertain)  
G-A AURLAND FJORD FORMATION: dolomite, lesser marble  
G- JAEGER LAKE FORMATION: altered volcanic flows and tuff (basalt and andesite/basalt); lesser dolomite, marble, in part stromatolitic
- CLEMENTS MARKHAM FOLD BELT**  
DEVONIAN OR OLDER  
MIDDLE DEVONIAN OR OLDER  
DB BOUJNE COMPLEX: porphyritic andesite flows; tuff, sandstone, phyllite, slate, hornfels (Middle Devonian or older); includes abundant porphyritic hypabyssal intrusions of mafic composition (Devonian?), and alkali-mafic composition (Late Ordovician?)
- SILURIAN**  
LOWER SILURIAN  
SDR DANISH RIVER FORMATION: calcareous-dolomitic sandstone and silty mudrock; minor pebble conglomerate (mainly sediment gravity flow)  
SDR+ includes carbonate olistoliths (Middle Ordovician) and common mafic and alkaline sills  
SDR- includes common mafic and alkaline sills  
SDR0 Ordovician carbonate olistolith in Danish River Formation
- SUCCESSION B**  
(Overlaps Succession A and parts of Pearya)
- SUCCESSION A**  
(Isolated outcrop belts with different stratigraphy. Designations refer to position within entire fold belt)  
Southwestern belt  
SF4 Member C: mudrock; dark grey, silty  
Member B (SF2-SF3)  
SF3 Upper part: (resistant) volcanic flows and tuffs (alkali basalt, basalt/alkali basalt, andesite, trachyandesite)  
SF2 Lower part: (moderately resistant) volcanic flows and tuffs (trachyandesite, rhyolite/dacite, andesite, basalt); includes strata of Member A, (northwestern facies) and carbonate olistoliths (Middle Ordovician)  
Member A (SF10-SF11)  
SF10 Northwestern facies: volcanogenic sandstone, tuff with small amounts of nonvolcanogenic sandstone and mudrock; includes carbonate olistoliths of Middle Ordovician age  
SF11 Southeastern facies: volcanogenic sandstone and siltstone; nonvolcanogenic siltstone and minor sandstone; very small amounts of tuff
- ORDOVICIAN**  
MIDDLE ORDOVICIAN  
OO Carbonate olistoliths (in Fire Bay Formation)
- CAMBRIAN(?) TO SILURIAN(?)**  
LOWER CAMBRIAN(?) TO LOWER SILURIAN(?)  
C-SH HAZEN FORMATION: chert, minor silty mudrock; (Cambrian rocks probably concealed); includes carbonate olistoliths (Middle Ordovician)
- PEARYA**  
SUCCESSION 2  
Largely units  
C-SH HAZEN FORMATION: chert, minor silty mudrock; (Cambrian rocks probably concealed); includes carbonate olistoliths (Middle Ordovician)
- NEOPROTEROZOIC TO LOWER ORDOVICIAN**  
M Marble  
CQPS Marble, quartzite, phyllite, schist; minor diatexite (diatexite may be Varanger)  
PQC Hornfels, quartzite, marble  
V Metavolcanics (with abundant granitoid intrusions of probable Late Devonian or younger age)
- MESOPROTEROZOIC AND(?) NEOPROTEROZOIC**  
UPPER MESOPROTEROZOIC AND(?) LOWERMOST NEOPROTEROZOIC  
(Age refers to granitoid intrusions and regional metamorphism; protoliths of metamorphic rocks may be older)  
Pn Biotite gneiss, granite composition (common augen structure, calcic texture and retrograde metamorphism)
- INTRUSIONS**  
(Excludes of metamorphosed intrusions of Early Neoproterozoic or older age)  
LATE CRETACEOUS OR OLDER (LATE DEVONIAN)  
K7ev Hornblende syenite (K-Ar age may reflect later thermal event)
- DEVONIAN**  
LATE DEVONIAN  
Dg Granitoid rocks (unspotted)  
Dg+ quartz diorite  
Dg- includes tonalite and abundant metamorphosed sediments (original limestone, chert, mudrock)  
Dg0 quartz diorite, age uncertain  
Dg+ dykes and plugs of porphyritic felsite (alkalified trachyandesite)  
Dg: tonalite
- AGE UNKNOWN**  
b AURLAND FJORD PLUTON: gabbro  
st Serpentinized ultramafic rocks (including dunite)  
Mafic dykes and sills of different ages
- ESIC CIST**  
JUN 6 1997  
Earth Sciences Sector / Secteur des sciences de la Terre



Geological boundary (defined, approximate, assumed or projected under ice or overburden) ...

Bedding, top known (horizontal, inclined, vertical, overturned, photogrammetric; dip determination) ...

Bedding, tops unknown (horizontal, inclined, vertical, dip unknown) ...

Bedding, general trend ...

Bedding, estimated dip from air photographs (inclined) ...

gentle (about 1° to 3°) ...

gentle (about 3° to 10°) ...

medium (about 10° to 25°) ...

steep (about 25° to 45°) ...

very steep (about 45° to 80°) ...

Lineament (from air photographs) ...

Fault (downthrow side unknown; defined, approximate, assumed or projected through ice, overburden or water; downthrow side unknown) ...

Fault (downthrow side unknown; defined, approximate, assumed or projected through ice, overburden or water; downthrow side unknown) ...

Fault (downthrow side unknown; defined, approximate, assumed or projected through ice, overburden or water; downthrow side unknown) ...

Normal fault (thrusture or downthrow side defined; approximate, assumed or projected through ice, overburden or water) ...

Thrust fault (teeth indicate upthrown side; defined, approximate, assumed or projected through ice, overburden or water) ...

Anticline (upright, overturned; arrow indicates plunge) ...

Syncline (upright, overturned; arrow indicates plunge) ...

Fossil locality as listed in appendix 5 (shown only for some Lower Permian units) ...

Locality where age has been determined, in millions of years ...

Stratigraphic section (thickness determined on the ground; thickness determined by photogrammetry; type section; designation by letters and/or numbers) ...

Line of section ...

Calm ...

Stratigraphic sections of pre-Carboniferous rocks by R.L. Treth (1969, GSC Bulletin 77); sections EBF, S, in area, GSC Bulletin 425; sections EAF, FB1 to FB5, GL, SV1 of Carboniferous and Permian rocks by R. Thorsen (1976, GSC Bulletin 225; sections 65, 66)

Pre-Carboniferous geology based on fieldwork by R.L. Christie (1957, U.S. Geol. Surv. Prof. Paper 1060), H.P. Treth (1961, 1962, 1985, 1986, 1990, 1992), A.S. Henry (1989), and J.C. Hamilton (1994); compiled by H.P. Treth

Carboniferous to Tertiary geology adapted from compilation by R. Thorsen (1972, GSC Map 1300A); with contributions to age and biology of Hansen Point volcanics by K.G. Casadez and R.A. McRae

Digital cartography by the Geological Survey of Canada (Calgary)

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

Digital base map at the same scale from Geomatics Canada, Department of Natural Resources, modified for publication by the Geological Survey of Canada

Copies of the topographic editions covering this map area may be obtained from the Canada Map Office, Department of Natural Resources, Ottawa, K1A 0S9

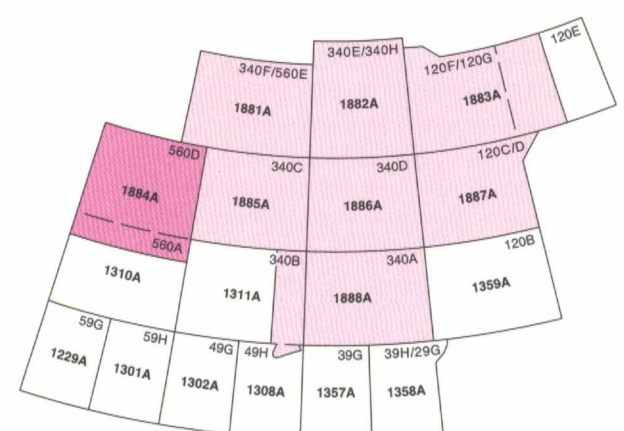
The proximity of the North Pole causes the magnetic compass to be erratic in this area. Mean magnetic declination 1995, 97°50' West, decreasing 30.7' annually. Readings vary from 97°31' W in the SE corner to 112°31' W in the NW corner of the map

Elevations in feet above mean sea level

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0S8. 2003-02-01 Rev. 11/01, Calgary, Alberta T0L 2A7. 100 West Park Drive, Vancouver, B.C. V6P 1R6

MAP 1884A  
GEOLOGY  
CAPE STALLWORTHY -  
BUKKEN FJORD  
DISTRICT OF FRANKLIN  
NORTHWEST TERRITORIES  
Scale 1:250 000 - Echelle 1:250 000

Universal Transverse Mercator Projection  
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