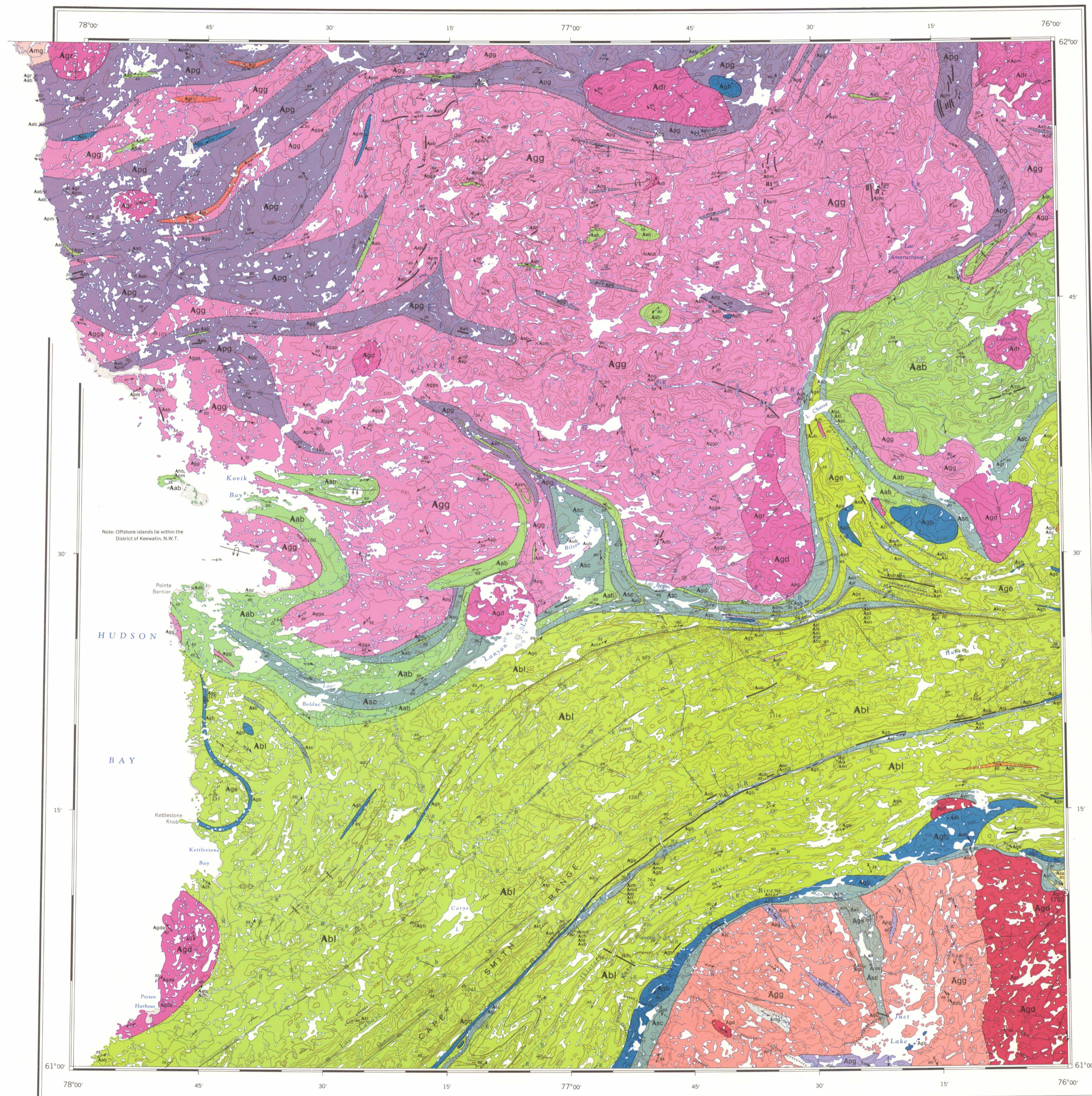


LEGEND

Note: This legend is common to Maps 1538A-1544A. Coloured legend blocks indicate map units that appear on this map. The dikes, narrow band formations and individual outcrops do not necessarily appear on this map.

- HADRYANIAN**
- Hdb Diabase
  - Adb Diabase
  - Agd Granodiorite (Agd): granite (Agr); tonalite (Ati); diorite (Adr); pegmatite (Apm); aplite (Apl); inclusions of paragneiss (Agp); and amphibolite (Agba, Adra) locally present
  - Amg Migmatite (Amg); includes local argillite; also includes local gneissic granitic rocks (Agg); pegmatite (Apm) locally present; small areas of amphibolite (Aab) and paragneiss (Agp) common
  - Agg Gneissic granitic rocks (Agg); chiefly granodiorite composition with local granite and tonalite; inclusions and bands of amphibolite common (Aab); inclusions and bands of paragneiss common (Agp)
  - Agf Granulite (Agf); hypersthene-quartz-plagioclase gneiss; biotite-hypersthene-quartz-plagioclase gneiss; commonly with clinopyroxene, hornblende, and/or garnet; includes minor gneissic granitic rocks (Agg) and amphibolite (Aab); inclusions of amphibolite common (Aab)
  - Ahg Hornblende-plagioclase gneiss (Ahg); locally with biotite and clinopyroxene; includes minor amounts of amphibolite (Aab)
  - Ahb Amphibolite (Aab); hornblende (Ahb); locally includes thin slate bands (Asl); garnet common locally
  - Arc Rusty graphitic quartz-rich paragneiss (Arc); local biotite and garnet
  - Amo Marble (Amb); calc-silicate rocks (Acs); commonly with diopside
- APHEBIAN**
- Agp Paragneiss (Agp); chiefly biotite-quartz-feldspar gneiss; (biotite-hornblende-quartz-feldspar gneiss; local garnet; rare sillimanite; locally includes minor amounts of amphibolite (Aab); rare calc-silicate rock (Acs) and rusty graphitic quartz-rich paragneiss (Arc); thin bands of gneissic granitic rocks (Agg) locally common
  - Aub Ultrabasic rocks (Aub); variably serpentinized; pyroxenite (Apx); peridotite (Apd); serpentinite (Asl); commonly includes gabbro (Agb)
  - Agb Gabbro, metagabbro (Agb); locally includes ultrabasic rocks (Aub); pyroxenite (Apx) and peridotite (Apd)
  - Art Rhyolite, rhyolite breccia, silicic crystal tuff; metarhyolite (Art); dacite (Adc)
  - Asl Basalt (Abi); greenstone (Age); volcanic breccia (Abv); tuff (Ati); komatiite (Akt); chlorite schist (Acl); thin bands of slate (Asl); shale (Ash) and/or greywacke (Agk) locally intercalated; in part carbonized (Act) and local carbonate dykes (Acd); explosion breccia (Acb)
  - Adm Dolomite (Adm); limestone (Als); includes minor amounts of shale (Ash); slate (Asl) and siltstone (Ass)
  - Agk Greywacke, metagreywacke (Agk); includes minor amounts of schist (Asc) and argillite (Asl)
  - Aaz Quartzite (Aaz); sandstone (Ass); conglomerate (Aco); quartzite and sandstone locally contain pebble conglomerate horizons; includes minor amounts of greywacke (Agk); siltstone (Ass); argillite (Asl); iron formation (Aif); slate (Asl) and schist (Asc)
  - Asc Schists of sedimentary origin (Asc); chiefly muscovite-biotite-quartz schist and muscovite-chlorite-quartz schist; argillite (Asl); siltstone (Ass); mudstone (Amu); shale (Ash) and slate (Asl) both commonly carbonaceous; phyllite (Aph); chert (Ach); iron formation and granitic schist (Aif); breccia (Abo); volcanogenic sedimentary rocks (Avo); includes minor amounts of dolomite (Adm); limestone (Als); sandstone (Ass); greywacke (Agk); quartzite (Aaz) and conglomerate (Aco); also locally includes thin mafic volcanic bands (Abi, Age) gabbro sills (Agb) and amphibolite (Aab)
- ARCHEAN**
- Hdb Diabase
  - Agb Gabbro, hornblende gabbro and metagabbro (Agb)
  - Agd Granodiorite (Agd): granite (Agr); tonalite (Ati); pegmatite (Apm); lamprophyre (Apl); inclusions of amphibolite locally common (Agba)
  - Amg Migmatite (Amg); includes local argillite and areas of gneissic granitic rocks (Agg); also includes small areas of amphibolite (Aab) and lesser amounts of paragneiss (Agp); dikes of granodiorite (Agd); granite (Agr) and pegmatite (Apm) common
  - Agg Gneissic granitic rocks with composition chiefly granodiorite with lesser amounts of granite, tonalite and quartz diorite (Agg); inclusions and bands of amphibolite common (Agba); local areas of granodiorite (Agd) and granite (Agr)
  - Aub Ultrabasic rocks (Aub); pyroxenite (Apx)
  - Agp Paragneiss (Agp); biotite-quartz-feldspar gneiss; hornblende-biotite-quartz-feldspar gneiss; local garnet; rare muscovite; marble (Amo)
  - Aab Amphibolite (Aab); locally includes minor amounts of metasedimentary rocks (Asc, Agk, Acs); rare hornblende (Ahb); metatuff (Ati)
  - Asc Schists of sedimentary origin (Asc); chiefly biotite-quartz-feldspar schist with local muscovite; metagreywacke (Agk); rare calc-silicate rock (Acs); rare leucoplastic quartzite (Aaz); includes local thin bands of amphibolite (Aab) and minor amounts of pegmatite (Apm)
- Rock outcrop .....  
 Geological boundary (defined, approximate, assumed) .....  
 Bedding, tops known (inclined, overturned) .....  
 Bedding, tops unknown (inclined, vertical) .....  
 Pillow top direction (dip known, unknown) .....  
 Foliation (horizontal, inclined, vertical, dip unknown) .....  
 Trend of foliation .....  
 Banding (horizontal, inclined, vertical, dip unknown) .....  
 Plunge of fold axis or minor structure (mineral lineation, rodding, S-plane intersection) .....  
 Trace of lineament .....  
 Fault (defined, approximate, assumed) .....  
 Fault (inclined) .....  
 Joint (inclined, vertical) .....  
 Anticline (approximate trace of the axial surface) .....  
 Syncline (approximate trace of the axial surface) .....  
 Overturned anticline (approximate trace of the axial surface) .....  
 Overturned syncline (approximate trace of the axial surface) .....  
 Glacial striae (direction of ice movement known, unknown) .....  
 Drumlinoid ridge (direction of ice movement unknown) .....  
 Easter (direction of flow assumed) .....  
 Locality where age has been determined (K-Ar method), millions of years ..... 1628 - 41  
 Mine .....  
 Nickel deposit ..... NIX  
 Shaft .....

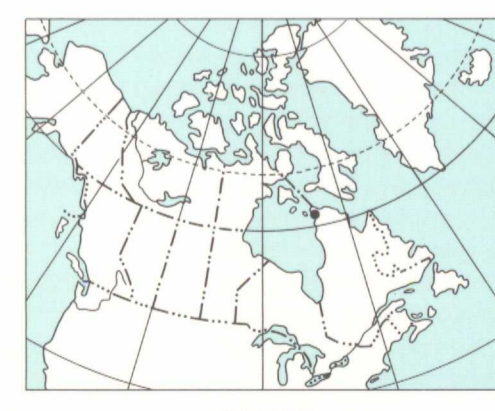


Note: Offshore islands lie within the District of Kewatin, N.W.T.

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Geology by R. Bergeron (1957), T.M. Gordon, J.B. Henderson and F.C. Taylor, 1973  
 Compiled by F.C. Taylor, 1979  
 To accompany Memoir 399 by F.C. Taylor  
 Geological cartography by H.A. Thomson, 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 published by the Surveys and Mapping Branch in 1964  
 Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, K1A 0E9  
 Geographical names subject to revision  
 Names in quotation marks are unofficial  
 Magnetic declination 1980 varies from 30°53.1' westerly at centre of west edge to 32°57.3' westerly at centre of east edge. Mean annual change 12.05' easterly



MAP 1539A  
 GEOLOGY  
**KOVIK BAY**  
 QUEBEC - NORTHWEST TERRITORIES  
 Scale 1:250 000  
 Kilometres 6 0 6 12 18  
 Miles 4 0 4 8  
 Elevations in feet above mean sea level  
 Universal Transverse Mercator Projection  
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35F	35G	35H	25E
1539A	1540A	1541A	1538A
35C & D	35B	35A	25D

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