

LEGEND

QUATERNARY AND RECENT

- Qu: Esker/loessburden/swamp

PROTEROZOIC

- PH: Hepburn Intrusive Suite: Granite, granodiorite, diorite with megacrysts of potassium feldspar Phk
- Pa: Amphibolite dykes, sills and hornblende gneiss
- SNARE GROUP**
 - PS: Undifferentiated subgreywacke, arkosic sandstone, mudstone, dolomite and calc-silicate rock
 - Psc: Conglomerate Psc, with mostly quartz pebbles; quartzite, arkosic quartzite Psq
 - Psd: Dolomite
 - Pscs: Calc-silicate rock, dolomitic argillite
 - Emm: Migmatite and mixed gneiss derived from paragneiss with leucosome > 50%; local pegmatite
 - Pp: Porphyroblastic rusty coloured biotite paragneiss and schist of uncertain origin; likely derived from the Snare Group Eps or Yellowknife Supergroup metasediments Ppy
 - Pm: Migmatitic rusty coloured paragneiss, migmatite of uncertain origin; likely derived from the Snare Group Pms or Yellowknife Supergroup metasediments with leucosome < 50% Emy; pegmatite Ppt
- ARCHEAN**
 - Amy: Migmatite derived from Yellowknife Supergroup metasediments with leucosome > 50%; local pegmatite
 - Ag: Orthogneiss of granodioritic, granitic and tonalitic composition with biotite, hornblende ± orthopyroxene, clinopyroxene and minor apatite
 - Ap: Origin plutonic complex; granodiorite Appd, tonalite Aptn both with biotite, pink feldspar and epidote; diorite Apdt
- YELLOWKNIFE SUPERGROUP**
 - Ayp: Paraconglomerate with clasts of quartz, basaltic amphibolite and granitoid gneiss, with homblende matrix (similar to Aygh)
 - Aygh: Hornblende paragneiss of basaltic provenance
 - Ayg: Paragneiss derived from greywacke and mudstone turbidites with porphyroblasts Aygp; migmatitic rocks Aygm
 - Ayb: Basalt and andesite pillowed flows; minor pyroclastic and sill rocks of similar and more felsic composition

Geological boundary (defined, approximate, assumed)

Bedding, top known (inclined, overturned)

Bedding, top unknown (inclined, vertical)

Pillow, top known (inclined, overturned)

Pillow, top unknown (inclined)

Bedding-foliation, top known (1st, 2nd generation)

Bedding-foliation, top unknown (1st, 2nd generation)

Foliation (inclined, vertical, dip unknown, 1st generation)

(inclined, vertical, dip unknown, 2nd generation)

(inclined, vertical, 3rd generation)

Clast elongations (1st, 2nd generation, arrow indicates plunge)

Mineral lineation (1st, 2nd, 3rd generation, arrow indicates plunge)

Mineral orientation trend

Minor fold axis (1st, 2nd, 3rd generation, arrow indicates plunge)

Fault (defined, approximate)

Thrust fault (teeth in direction of dip; defined, assumed)

(teeth indicate upthrust side)

Shear zone

Antiform (1st, 2nd, 3rd folding)

Synform (1st, 2nd, 3rd folding)

Mineral prospect

Mineral occurrence

Mineral isograd (symbol on upgrate side)

Biotite

Cordierite

Cordierite/garnet

Sillimanite

MINERALS

Andalusite an Orthopyroxene op

Cordierite cd Sillimanite sl

Garnet gr Spinel sp

Gold Au

Geology by R.A. Frith and R. Leatherbarrow, 1974, J.C. McGlynn and J.V. Ross, 1993

Compiled by R.A. Frith, 1988

Geological cartography by the Geological Survey of Canada

Colour separations were produced using digital methods

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

Base map assembled by the Geological Survey of Canada from maps published at the same scale by the Surveying and Mapping Branch in 1987, 1979

Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9

Magnetic declination 1990, 31°16' East, decreasing 21.2' annually

Elevations in metres above mean sea level

Geographical names subject to revision

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INDEX MAP

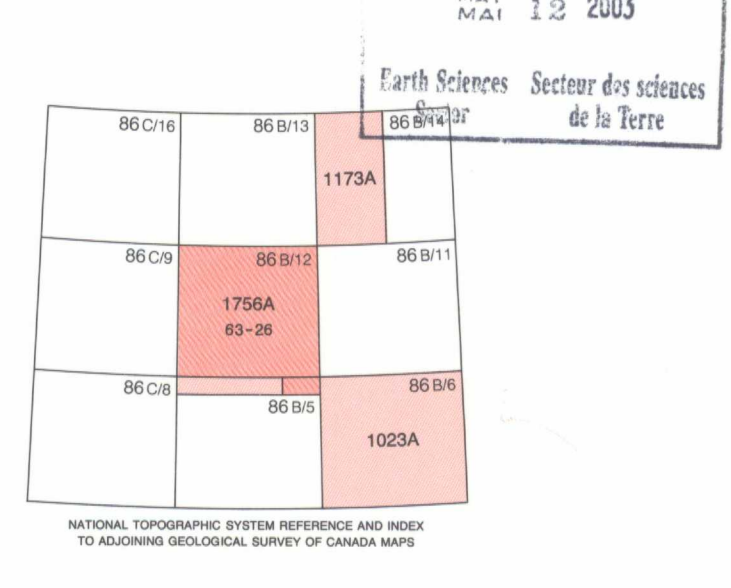
MAP 1756A
GEOLOGY
ARSENO LAKE
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES

Scale 1:50 000 - Échelle 1/50 000

Kilometres 0 1 2 3 4 Kilometres

Universal Transverse Mercator Projection / Projection transverse universelle de Mercator

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1756A