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GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

NATMAP
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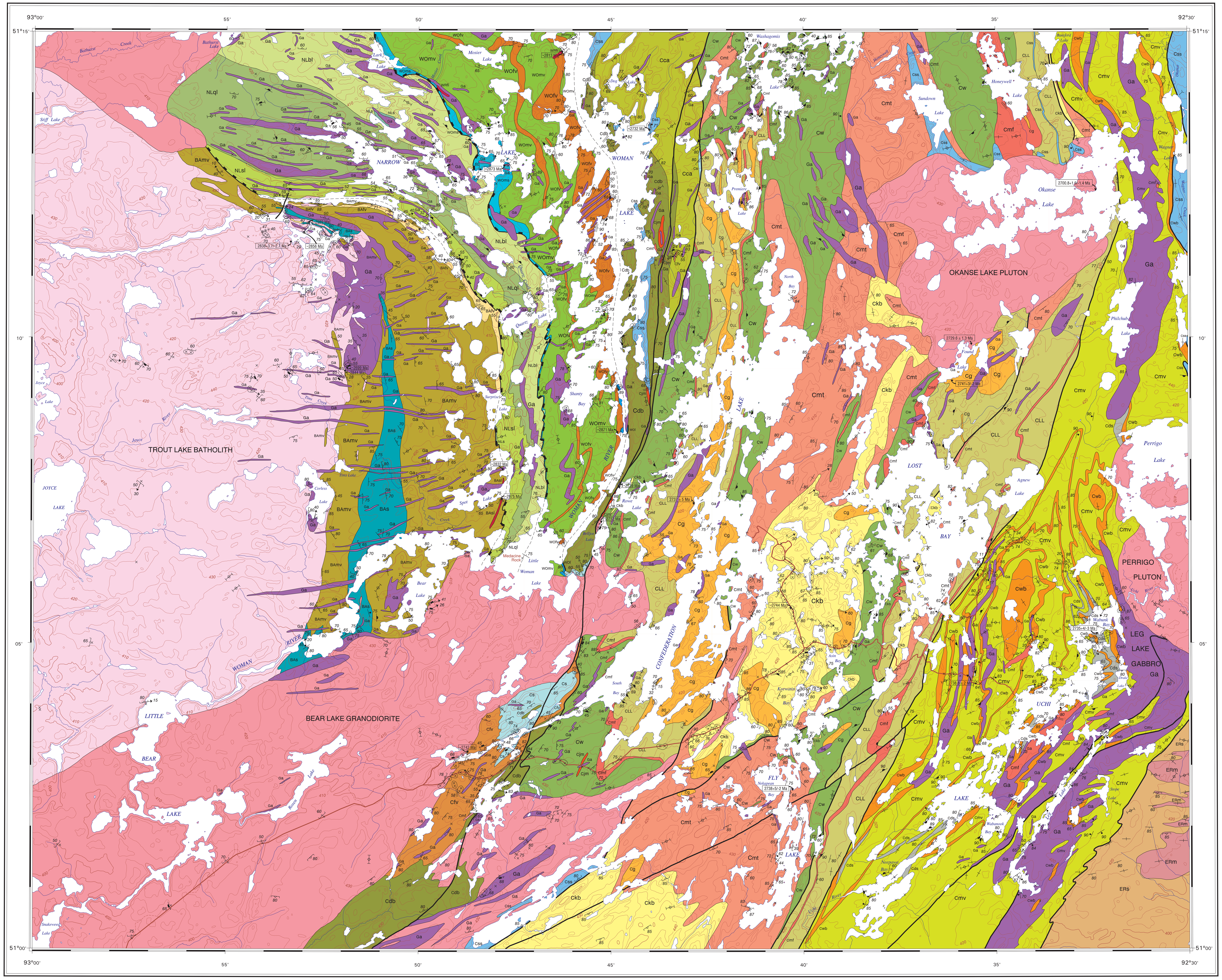

LEGEND

ARCHEAN

ENGLISH RIVER SUBPROVINCE

- ERs — *Metasedimentary rocks*
- ERm — *Migmatite*

UCHI SUBPROVINCE

- Ga — *Gabbros (various ages: >2844–2699 Ma)*
- *Young granitoids (2725–2700 Ma): mostly granodiorite, minor quartz monzonite, diorite, tonalite and granite; includes sanukitoid suites*

CONFEDERATION ASSEMBLAGE (2745–2725 Ma)

- Css — *Sundown Lake sedimentary sequence: conglomeritic to medium grained lithic wacke extensional basin fill deposits (<2735 Ma)*
- Cjm — *Jackson Manion dykes: quartz feldspar phyric dykes (c.2739 Ma)*

EARNGEY BELT (c.2740 Ma)

- Cmv — *Mafic volcanic rocks: Wabanook tholeiites and Neepewa Bay calc-alkaline basalts - pillow basalts, pillow breccias, and volcaniclastic/epiclastic units*
- Cwb — *Wabunk volcanics: andesite to dacitic tuffs*
- Cds — *Drake Lake sedimentary sequence: massive to thinly bedded, light grey, volcaniclastic siltstone. Locally interbedded with Wabunk volcanic rocks*

AGNEW BELT (c.2740 Ma)

- Cg — *Granophric granodiorite*
- Ckb — *Keewatin Bay porphyries: quartz-feldspar phyric volcaniclastic and effusive flows, locally includes subvolcanic intrusions*
- Cw — *Washagomis tholeiites (MORB/BAB); dominantly pillowed flows and pillow breccia*
- Cmf — *Honeywell Lake volcanics; predominantly dacitic flow, locally perlitic (minor tuffs)*
- Cmt — *Nekapean Bay volcanics; felsic lapilli tuff/volcanic breccia (minor flows). In Lost Bay includes Earngey belt clasts*
- CLL — *Lost Bay calc-alkaline basalt (arc-like): pillowed flows, pillow breccia and tuffs*

KNOTT BELT (c.2742 Ma)

- Cs — *Knott belt sedimentary rocks: volcaniclastic sandstone and breccia, locally interbedded with felsic volcanic rocks. May in part include Sundown Lake sedimentary sequence rocks*
- Cfv — *Knott belt: felsic volcanic rocks; ignimbritic rhyolite flows*
- Cca — *Dog Lake calc-alkaline basalts (arc-like): massive to pillowed flows*
- Cdb — *Dent tholeiites (arc-like): predominantly pillowed flows*

- WRfi — *Woman River quartz-feldspar porphyry dykes (c.2813 Ma)*
- *Trout Lake Batholith: massive to schistose tonalite (2806 to 2856 Ma)*

WOMAN ASSEMBLAGE (c.2771 Ma)

- WOl — *Little Woman limestone: stromatolitic marble*
- WOfv — *Woman Lake Tuff: ignimbritic to tuffaceous rhyolitic and dacitic flows*
- WOmv — *Shanty Bay mafic volcanic rocks: mostly pillow basalts*
- WOms — *Medicine Rock sedimentary sequence: interbedded hematitic iron formation and grey to brown siltstone*

NARROW LAKE ASSEMBLAGE (<2975; >2880)

- NLbl — *Bathurst Lake tholeiitic pillow basalts: chemically MORB-like, continental rift sequence*
- NLql — *Quartz Lake tholeiitic pillow basalts: chemically MORB-like, continental rift sequence*
- NLsl — *Surprise Lake tholeiitic pillow basalts: chemically MORB-like, continental rift sequence*
- NLs — *Narrow Lake assemblage sedimentary rocks: massive lithic wackes, locally conglomeritic*

BALMER ASSEMBLAGE (2975–2989 Ma)

- BAsl — *Spot Lake dacite (c.2975 Ma)*
- BAfv — *Skinner porphyries: thinly bedded to massive quartz and feldspar phyric tuffs (c.2989 Ma)*
- BAmv — *Tims Creek volcanics: massive basaltic andesite to andesite*
- BAs — *Balmer assemblage sedimentary rocks: predominantly thinly bedded to massive medium grained greywacke and siltstone*

Geological contact (approximate)
Fault (approximate or assumed)
Unconformity (approximate or assumed, with ticks towards younger unit)
Approximate trace of assemblage boundary through lakes
Rock outcrop, area of rock outcrop mapped by author
Bedding, top known (inclined, overturned), unknown, vertical — 30, 40, 60
Bedding in pillow lava; dip if known (upright, overturned) — 60, 66
Foliation, unknown generation (inclined, vertical) — 60
Foliation, S_1 generation — 60
Foliation, S_2 generation — 66
Igneous contact/dyke — 61
Shear zone (motion unknown, dextral, sinistral) — 56, 88, 68
Stretching and mineral lineation (generation unknown, S_1) — 70, 40
M-fold (generation unknown, S_1, S_2) — 30, 40, 60
S-fold (generation unknown, S_2) — 30, 60
Z-fold (generation unknown, S_2) — 30, 60
General younging direction from sedimentary structures
U/Pb zircon age — ~2741 Ma

ACKNOWLEDGMENTS

This map was produced as part of the Western Superior NATMAP project. The author thanks Vicki McNicoll (GSC) for the use of unpublished U-Pb zircon age determinations. Cees van Staal (GSC) is thanked for his assistance, along with Phil Thurston, John Devaney, Jack Parker, Charlie Blackburn and Carmen Story (all OGS). Sebastien Hogan, Sheldon Thistle, Allysson Lindsay and Rob Ludberg assisting in the mapping of this area.

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LOCATION MAP

Geological mapping by N. Rogers, 2002

Geological compilation by N. Rogers

Digital cartography by D. Viner, Earth Sciences Sector Information Division (ESS Info)

This map was produced from processes in conformance with the Cartographic Services Section Quality Management System, Ottawa, registered to the Quality System ISO 9001: 1994 standards

OPEN FILE 4265

GEOLOGY

CONFEDERATION LAKE

ONTARIO

Scale 1:50 000/Échelle 1/50 000

kilometres 1 0 1 2 3 4 kilomètres

Universal Transverse Mercator Projection
North American Datum 1927

Projection transverse universelle de Mercator
Système de référence géodésique nord-américain, 1927

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

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Some geographical names subject to revision

Mean magnetic declination 2002, 0°5′E, decreasing 4.5′ annually

Elevations in metres above mean sea level

52 N/6	52 N/7	52 N/8
52 N/3	52 N/2 OF 4265	52 N/1
52 K/14	52 K/15	52 K/16

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2002

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Recommended citation:
Rogers, N.
2002: Geology, Confederation Lake, Ontario; Geological Survey of Canada, Open File 4265, scale 1:50 000.

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