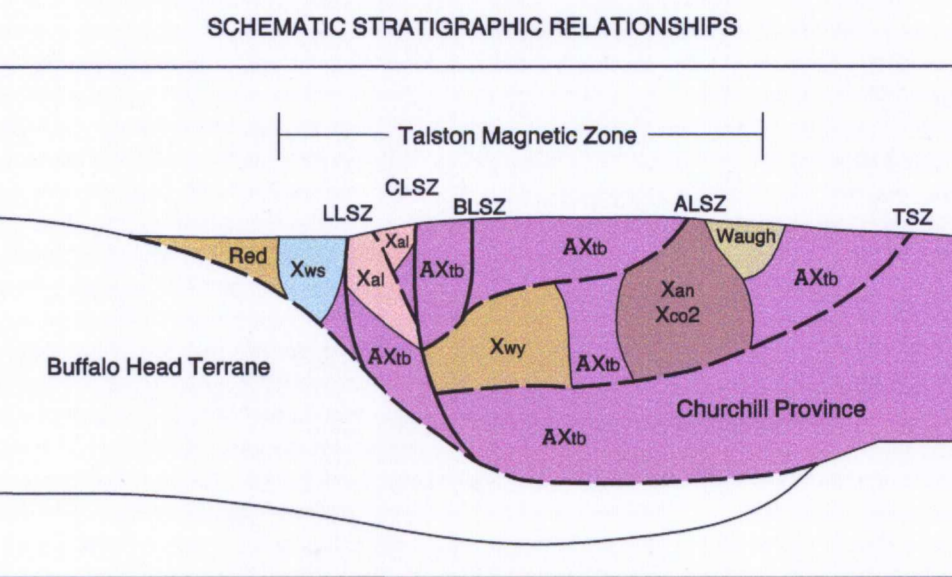


LEGEND: QUATERNARY (Qa, Qv), DEVONIAN (D), PALEOPROTEROZOIC (XAG, Xct, Xgm, Xig, Xco3, Xco2, Xco1, Xws, Xcl, Xlc, Xpm, Xhm, Xal, Xan, Xco2, Xco1, Xwb, Xwv, Xwc, Xws, Xms, Xa, Xtbs, AXtb, AXtb, AXtb, Atbt, mt), PRE-TECTONIC (GRANULITE-GRADE) TALTSON PLUTONIC ROCKS (Xal, Xan), TALTSON BASEMENT COMPLEX (Xa, Xtbs, AXtb, AXtb, Atbt, mt).



NOTES: 1. U-Pb zircon and monazite ages of magmatic gneisses of the Taltson magmatic zone (NTS 74M, 74L) range from 1.7 to 1.82 Ga. ... 2. An-orthopyroxene rims from the NTS 74M area cluster around 1900 Ma, and hornblende-cooling ages are about 1900 Ma. ... 3. Leland Lakes shear zone (LLSZ) and Charles Lakes shear zone (CLSZ) are composite shear zones active under granulite to amphibolite facies conditions prior to ca. 1934 Ma. ... 4. Metasedimentary gneisses of unit Xms occur as enclaves within TBC gneisses, and as rafts within plutonic units. ... 5. For discussion of mineral occurrences see McDonough and Abernethy (1995), McDonough (1997) and references therein.

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- Geological boundary (dashed, approximate, assumed)
Geological boundary (assumed projection under cover of younger deposits)
Bedding, tops known (inclined, vertical)
Foliation, high-grade mylonite (inclined, vertical)
Foliation, greenschist mylonite (inclined, vertical)
First foliation (inclined, vertical)
Second foliation (inclined, vertical)
Lineation, high-grade stretching (inclined)
Lineation, greenschist stretching (inclined)
Mesoscopic fold axis, vergence indicated by tick (inclined)
Mesoscopic W-fold axis (inclined)
Mesoscopic U-fold axis (inclined)
Mesoscopic shear-fault axis (inclined)
Aisai plane of mesoscopic fold (inclined, vertical)
Fault displacement unknown (dashed, approximate)
Fault displacement unknown (assumed projection under cover of younger deposits)
Thrust fault, normal oblique (dashed, approximate)
Thrust fault, normal oblique (assumed projection under cover of younger deposits)
Small scale thrust fault
Brecciation
Shear bands, ductile, dextral (inclined, vertical)
Shear bands, ductile, sinistral (inclined, vertical)
Shear bands, brittle, dextral (inclined, vertical)
Shear bands, brittle, sinistral (inclined, vertical)
Quartz vein (inclined, vertical)
Pegmatite vein (inclined, vertical)
Episite vein (inclined, vertical)
Granite vein (inclined, vertical)
Joint (inclined, vertical)
Antiform and synform, trace of axial surface (fold upright; approximate)
K-Ar date (Ma; b, biotite; h, hornblende; m, muscovite)
1835 BK x
1904 BA x
U-Pb date (Ma; z, zircon; m, monazite)
20 1803 x
IPb 2.0 x 2.2 x
Gossan (no orientation implied)
Mineral occurrence
Arsenopyrite
As
Chalcopyrite
Cp
Hematite
Hm
Magnetite
Mt
Molybdenite
Mo
Pyrite
Py
Pyrrhotite
Pp

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0S8. ... MAP 1958A GEOLOGY TURTLE LAKE ALBERTA Scale 1:50 000/Echelle 1:50 000



Table with 3 columns and 3 rows showing map sheet coordinates: 74M11, 74M10, 74M9; 74M8, 74M7, 74M6; 74M5, 74M4, 74M3.

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SOURCES OF INFORMATION: 2, 3. McDonough, M.R., McNeill, V.J., Grover, T.W., Cooley, M.A., Schetselaar, E.M., Robinson, N., Van Ham, J., and Hodgson, G., 1984. Geology of the Turtle Lake District, Alberta. Alberta Research Council, Map 26, 1:31 860 scale. ... 3. Godfrey, J.D., Walton, G.J., and Hodgson, G., 1984. Geology of the Turtle Lake District, Alberta. Alberta Research Council, Map 27, 1:31 860 scale.

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1958A