



LEGEND

PALEOZOIC (<545 Ma)

Supracrustal rocks

MESOPROTEROZOIC (1600-900 Ma)

Mafic intrusions

Alkaline complex

PALEOPROTEROZOIC (2500-1600 Ma)

Sedimentary and volcanic rocks

Volcanic rocks

Mafic and ultramafic rocks

Felsic intrusions

Alkaline complex

ARCHEAN (>2500 Ma)

Orthogneiss, paragneiss, amphibolite

Supracrustal rocks, age and tectonic affinity unknown; sedimentary and volcanic rocks

Plutonic rocks, age and tectonic affinity unknown

NEOARCHEAN (2800-2500 Ma)

LATE OROGENIC PLUTONIC ROCKS

Granite, granodiorite, univided

Syenite, monzonite, diorite

Diatexite, anatectic granite

Mafic, ultramafic intrusions

EARLY OROGENIC AND SYNVOLCANIC PLUTONIC ROCKS

Tonalite and granodiorite orthogneiss, tonalite, trondhjemite, and granodiorite intrusions

Mafic, ultramafic, and anorthositic intrusions

HIGH-GRADE GNEISSIC AND CHARNOKITIC PLUTONIC ROCKS

Univided granulite gneiss and charnockite

Paragneiss

Mafic gneiss

Tonalite, enderbic gneiss

Diatexite, charnockite

SUPRACRUSTAL ROCKS

Late successor basin sequences. Alluvial-fluvial sedimentary and caliche-schistose volcanic rocks

Early successor basin sequences. Turbidite and alluvial-fluvial sedimentary and calc-alkaline volcanic rocks

Accretionary complexes. Turbidite sedimentary rocks and related gneiss and diatexite

Arc volcanic sequences. Differentiated and bimodal mafic-felsic calc-alkaline and tholeiitic volcanic rocks, subvolcanic intrusions, volcanogenic sedimentary rocks, and iron-formation

Submarine mafic plain sequences. Tholeiitic-komatiitic volcanic rocks, subvolcanic mafic-ultramafic intrusions, minor volcanogenic sedimentary rocks, and iron-formation

MESOARCHEAN (3200-2800 Ma) PLUTONIC ROCKS

Early orogenic and synvolcanic plutonic rocks. Tonalite and granodiorite orthogneiss, tonalite, trondhjemite, and granodiorite plutons

SUPRACRUSTAL ROCKS

Early successor basin turbidite sedimentary sequences

Platform-type sequences. Quartz-rich arenite, quartz-pebble conglomerate, stromatolitic marble, mafic and ultramafic volcanic rocks

Arc volcanic sequences. Differentiated and bimodal mafic-felsic calc-alkaline and tholeiitic volcanic sequences

Submarine mafic plain sequences. Tholeiitic-komatiitic volcanic sequences

PALEOARCHEAN (>3200 Ma)

Orthogneiss, paragneiss, amphibolite

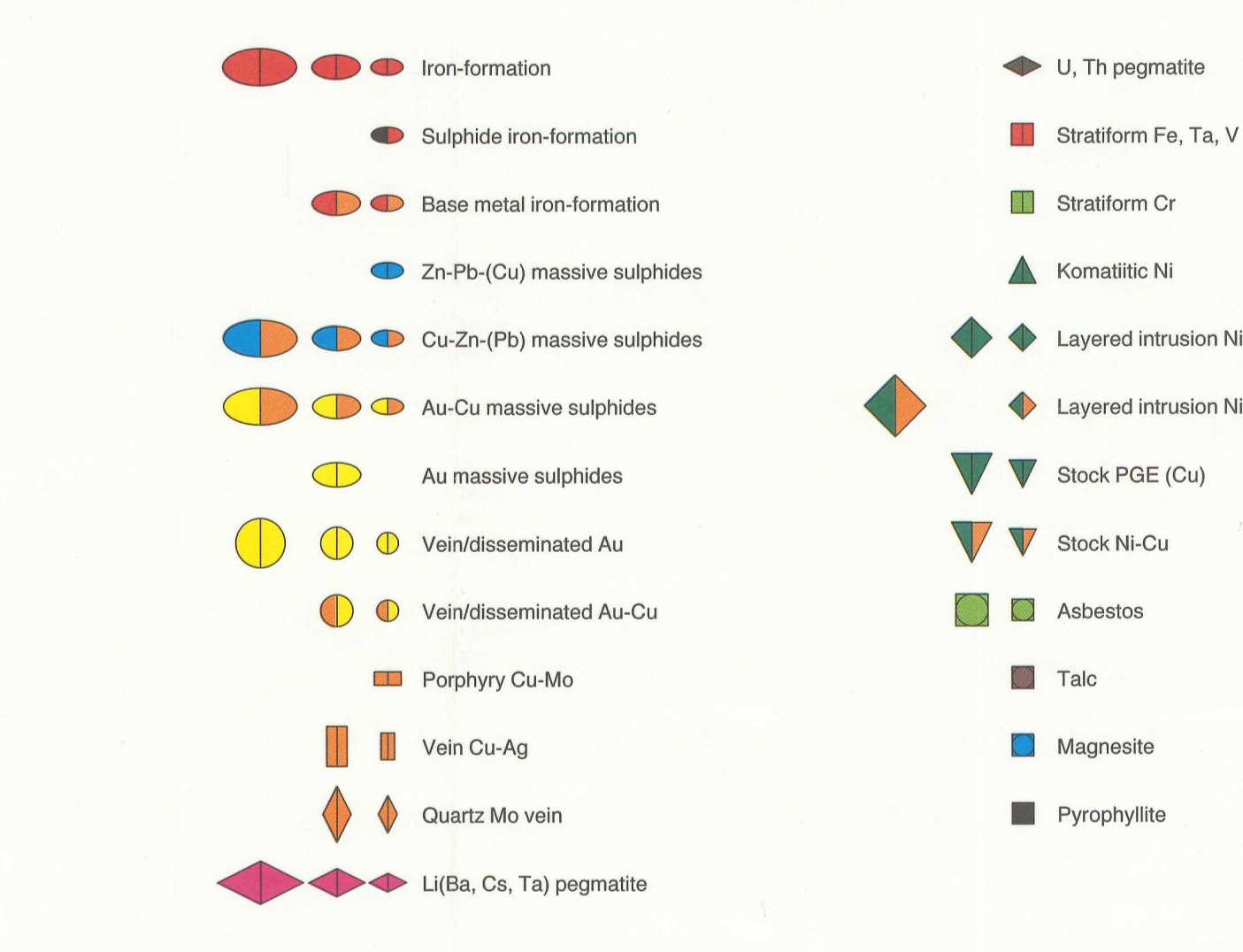
Table with columns: NUMBER, DEPOSIT NAME, ALTERNATE NAME, DEPOSIT TYPE. Lists various geological units and their characteristics.

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ARCHEAN DEPOSIT TYPES



Symbol colours and size classification scheme adapted from Guild (1981). Deposit sizes based on estimated metric tonnes of contained metals

Table with columns: Commodity, Large, Medium, Small. Lists deposit sizes for Au, Cu, Zn, Pb, Ni, and other commodities.

Miscellaneous deposit database compiled by K.H. Poulsen, Geological Survey of Canada

Geological base from Cart, K.D., Frith, R.A., Poulsen, K.H., and Ciesielski, A. (comp.) 1998. Lithotectonic map of the Superior Province, Canada and adjacent parts of the United States of America. Geological Survey of Canada, Map 1948A, scale 1:2 000 000.

Digital cartography by T. D. West, Geoscience Information Division

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

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