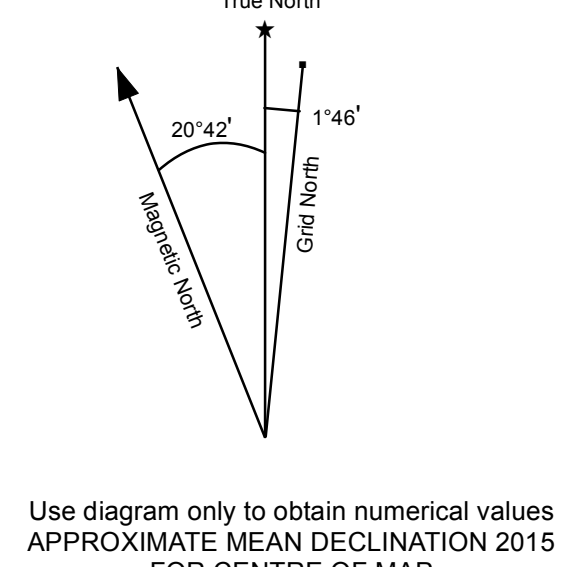


1:250 000-scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA. Copyright Her Majesty the Queen in Right of Canada. ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 8. CONTOUR INTERVAL 100 FEET Elevations in metres above Mean Sea Level

Porphyry Cu-Mo deposits Weighted sums model (Principal Component Residuals) Sheet 13 of 15

SCALE 1:250 000

0 1 2 3 4 5 kilometres



115O	115P	105M
STEWART RIVER	MCQUESTEN	MAYO
115J	115I	105L
STEVENSON RIDGE	THIS MAP	GLENLYON
115G	115H	105E
KUJANE LAKE	AISHIHK LAKE	LAKE LABERGE

LEGEND

- Town
- Mineral Occurrence
- Road
- Contour
- River
- Water Body
- Wetland
- Sample Location
- Catchment > 14km²
- Catchment

Weighted sums model (PC residuals) Porphyry Cu-Mo deposits

- incomplete element suite
- 0-50th percentile
- 50-75th percentile
- 75-90th percentile
- 90-95th percentile
- 95-98th percentile
- 98-100th percentile

REFERENCES

- Geological Survey of Canada, 1986. Regional stream sediment and water geochemical reconnaissance data, southern Yukon (NTS 115I). Geological Survey of Canada, Open File 1220.
- Jackaman, W., 2015. Regional stream sediment geochemical data, Carmacks area, southern Yukon (NTS 115I). Yukon Geological Survey, Open File 2015-14.
- Mackie, R., Arne, D. and Brown, O., 2015. Enhanced interpretation of regional stream sediment (RGS) geochemical data from Yukon: catchment basin analysis and weighted sums modeling. Yukon Geological Survey, Open File Report 2015-10.
- Yukon MINFILE, 2015. Yukon MINFILE – A database of mineral occurrences. Yukon Geological Survey, www.data.geology.gov.yk.ca, accessed May 2015.

Table 1: List of Mineral Occurrences for NTS map sheet 115I (Yukon MINFILE, 2015)

Number	Name	Type	Status	Commodities
115I 068	DMDE	Vein Au-Quartz	Drilled Prospect	Gold, Silver
115I 069	SCHST	Ultramafic Mafic Gabbroid Cu-Ni-PGE	Anomaly	Asbestos, Copper, Nickel
115I 070	MALONEY	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Molybdenum, Gold, Silver, Tungsten
115I 071	CHART	Unknown	Anomaly	Copper
115I 074	COMANCHE	Porphyry Cu-Mo-Au	Drilled Prospect	Copper
115I 075	NORTHSTAR	Unknown	Anomaly	Copper
115I 076	TUF	Porphyry Cu-Mo-Au	Showing	Copper
115I 077	CROSSING	Vein Cu ⁺ -Ag-Quartz	Showing	Copper
115I 079	GRI	Porphyry Cu-Mo-Au	Anomaly	Copper, Gold
115I 080	RICO	Unknown	Anomaly	Copper, Lead, Zinc, Gold
115I 081	KERR	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Molybdenum
115I 083	MEYERS	Unknown	Unknown	Coal
115I 084	LONELY	Vein Au-Quartz	Showing	Copper, Silver, Gold
115I 085	CAR	Vein & Disseminations Siltstone	Prospect	Antimony, Copper, Tungsten, Silver, Mercury, Lead, Gold, Arsenic
115I 086	FRULINSON	Vein & Disseminations Siltstone	Showing	Antimony, Mercury, Silver, Arsenic, Gold
115I 087	KOOK	Porphyry Cu-Mo-Au	Anomaly	Copper, Molybdenum
115I 088	BATH	Porphyry Alkalic Cu-Au	Anomaly	Antimony, Copper
115I 092	RINK	Coal	Anomaly	
115I 093	GOUTLER	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Gold, Lead, Molybdenum, Zinc, Silver
115I 095	BLUFF	Vein Cu ⁺ -Ag-Quartz	Showing	Copper, Silver, Gold
115I 096	RUSK	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Drilled Prospect	Copper, Lead, Silver, Molybdenum, Gold
115I 098	HLAVAY	Coal	Drilled Prospect	Coal
115I 100	PITTS	Epithermal Au-Ag-Cu: High Sulphidation	Showing	Antimony, Mercury, Arsenic, Gold
115I 101	LIMBY	Porphyry Cu-Mo-Au	Anomaly	Copper, Molybdenum
115I 105	MERDAN	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Drilled Prospect	Lead, Silver, Zinc
115I 106	HAPPY	Vein Au-Quartz	Showing	Gold, Lead, Zinc
115I 107	NUCLEUS	Porphyry Cu-Mo-Au	Deposit	Gold, Silver, Copper, Tungsten, Molybdenum
115I 108	TOOT	Porphyry Cu-Mo-Au	Showing	Copper
115I 110	ROW	Unknown	Anomaly	Copper, Silver, Zinc, Lead
115I 111	ANTONIAK	Porphyry Subvolcanic Cu-Au-Ag (As-Sb)	Deposit	Gold, Silver, Copper
115I 112	WHALE	Vein Au-Quartz	Drilled Prospect	Copper, Silver
115I 113	FIELD	Unknown	Anomaly	Gold
115I 115	TDAST	Unknown	Anomaly	Gold
115I 117	DOC	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Showing	Antimony, Gold, Copper, Lead, Silver, Zinc
115I 119	DOWS	Epithermal Au-Ag-Cu: High Sulphidation	Drilled Prospect	Gold
115I 120	ELEPHANT	Unknown	Anomaly	Copper, Lead, Zinc, Silver, Gold
115I 121	STODDART	Unknown	Showing	Antimony, Gold, Copper, Lead, Silver, Zinc
115I 122	GRZLY	Vein Au-Quartz	Showing	Gold, Silver, Tungsten
115I 123	ANG	Unknown	Showing	Gold
115I 001	SOUTH TANTALUS	Coal	Deposit	Coal
115I 002	TANTALUS MINE	Coal	Past Producer	Coal
115I 003	TANTALUS BUTTE	Coal	Past Producer	Coal
115I 004	FIVE FINGERS	Coal	Past Producer	Coal
115I 008	RICKE	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Gold
115I 008	CARMACKS COPPER	Porphyry Alkalic Cu-Au	Deposit	Copper, Gold, Copper - Oxide, Copper - Total, Copper - Sulphide, Silver
115I 012	HAUD	Unknown	Unknown	Copper, Gold, Silver
115I 013	HOOCEKOD	Vein Cu ⁺ -Ag-Quartz	Showing	Copper, Gold, Silver
115I 017	TOWHATA	Coal	Anomaly	Coal
115I 018	NEEDLEROCK	Unknown	Showing	Coal
115I 019	BRADENS CANYON	Vein Cu ⁺ -Ag-Quartz	Prospect	Copper, Silver
115I 020	COON	Vein Cu ⁺ -Ag-Quartz	Drilled Prospect	Copper, Gold, Silver
115I 021	MINIO	Porphyry Alkalic Cu-Au	Producer	Copper, Silver, Gold, Lead, Zinc
115I 022	MINIO NORTH	Porphyry Alkalic Cu-Au	Deposit	Copper, Silver, Gold
115I 023	PAL	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Gold, Silver
115I 025	GREENER	Coal	Showing	Coal
115I 026	PELLEY	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Molybdenum
115I 029	AMADEUS	Porphyry Cu-Mo-Au	Drilled Prospect	Antimony, Arsenic, Copper, Zinc, Lead, Silver, Gold
115I 031	TADTORO	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Gold, Zinc, Molybdenum, Silver, Lead
115I 032	PHELPS	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Showing	Copper, Molybdenum, Gold
115I 034	PROSPECTOR MOUNTAIN	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Drilled Prospect	Copper, Silver, Zinc, Gold, Lead
115I 035	STARBIRD	Porphyry Subvolcanic Cu-Au-Ag (As-Sb)	Showing	Copper, Molybdenum, Zinc, Silver, Gold, Antimony, Lead
115I 037	CASH	Porphyry Cu-Mo-Au	Deposit	Lead
115I 038	FLORIAN	Drilled Prospect	Drilled Prospect	Copper, Gold, Silver, Molybdenum
115I 039	COM	Porphyry Cu-Mo-Au	Anomaly	Copper, Fluorite, Tungsten
115I 042	REVENUE	Porphyry Cu-Mo-Au	Deposit	Copper, Gold, Silver, Molybdenum, Tungsten
115I 043	COMBO	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Showing	Gold, Tungsten, Zinc, Lead, Silver
115I 045	NEWKIRK	Porphyry Cu-Mo-Au	Showing	Copper, Zinc, Molybdenum
115I 046	LLE	Vein Au-Quartz	Showing	Gold
115I 047	TRITOP	Porphyry Mo (Low F-Type)	Anomaly	Copper, Molybdenum, Gold
115I 048	EDGAR	Porphyry Cu-Mo-Au	Anomaly	Copper, Molybdenum
115I 049	CARBON CREEK	Vein Au-Quartz	Past Producer	Gold, Silver
115I 050	GRABER	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Silver, Gold
115I 051	CASTLE	Vein Cu ⁺ -Ag-Quartz	Showing	Antimony, Gold, Copper, Lead, Zinc, Silver
115I 052	RED FOX	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Drilled Prospect	Gold, Lead, Zinc, Silver
115I 053	GLUER	Skarn Au	Deposit	Silver, Gold
115I 054	ALFORMA	Epithermal Au-Ag-Cu: High Sulphidation	Deposit	Silver, Gold, Lead, Zinc, Copper
115I 055	EDMONS HILL	Epithermal Au-Ag-Cu: High Sulphidation	Drilled Prospect	Antimony, Mercury, Silver, Gold
115I 058	TNTA HILL	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Showing	Copper, Gold, Zinc, Silver, Lead
115I 060	WOLF	Unknown	Anomaly	Arsenic, Gold
115I 062	FOSTER	Skarn Au	Showing	Gold
115I 064	BROWN MCADEE	Epithermal Au-Ag-Cu: High Sulphidation	Past Producer	Gold, Silver, Lead, Copper, Zinc, Antimony
115I 065	MOUNT NANSEN	Epithermal Au-Ag-Cu: High Sulphidation	Past Producer	Silver, Gold
115I 066	CYPRUS	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Gold, Molybdenum
115I 005	CONGLOMERATE	Unknown	Anomaly	
115I 011	STU	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Silver, Gold
115I 014	KLAZA	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Deposit	Copper, Gold, Zinc, Silver, Lead
115I 099	RAND	Unknown	Unknown	
115I 099	ZERO	Unknown	Unknown	
115I 099	CHART	Unknown	Unknown	
115I 028	MINNESOTA	Vein Au-Quartz	Unknown	
115I 033	TERRA	Unknown	Unknown	
115I 061	OPAL	Unknown	Unknown	
115I 061	PANTHER	Epithermal Au-Ag-Cu: High Sulphidation	Anomaly	Arsenic, Gold
115I 094	GIANT	Porphyry Cu-Mo-Au	Anomaly	Copper
115I 124	TOE	Porphyry Cu-Mo-Au	Anomaly	Copper
115I 125	PEPPER	Porphyry Cu-Mo-Au	Anomaly	Copper
115I 014	VERLENE	Porphyry Cu-Mo-Au	Unknown	Copper, Silver, Gold
115I 089	BEAVON	Unknown	Unknown	Copper
115I 126	BUTTER	Porphyry Cu-Mo-Au	Anomaly	Copper, Gold
115I 127	HOOCHIE	Porphyry Cu-Mo-Au	Anomaly	Copper, Gold
115I 128	GRAN	Porphyry Cu-Mo-Au	Anomaly	Copper
115I 010	BONAZZA CREEK	Vein Cu ⁺ -Ag-Quartz	Prospect	Copper, Gold, Silver
115I 007	WVS	Porphyry Cu-Mo-Au	Drilled Prospect	Copper, Silver, Gold
115I 009	MERRICE	Vein Cu ⁺ -Ag-Quartz	Showing	Copper, Silver, Gold
115I 057	GRANITE MOUNTAIN	Vein Polymetallic Ag-Pb-Zn ⁺ -Au	Drilled Prospect	Copper, Molybdenum, Gold
115I 098	MORI	Unknown	Unknown	
115I 072	PHOEBE	Unknown	Unknown	
115I 044	EGG	Unknown	Unknown	
115I 082	LESS	Unknown	Anomaly	
115I 091	MC CABE	Unknown	Anomaly	
115I 024	ADERA	Porphyry Cu-Mo-Au	Anomaly	
115I 097	BOYLEN	Unknown	Anomaly	
115I 114	TATLARAN	Unknown	Anomaly	
115I 027	NIX	Unknown	Showing	
115I 090	SAM	Unknown	Anomaly	
115I 015	LODEN	Vein Au-Quartz	Showing	
115I 040	SPOKANE	Skarn Cu	Anomaly	

RECOMMENDED CITATION

MACKIE, R., ARNE, D. AND PENNIMPEDE, C., 2016. Weighted sums model for Porphyry Cu-Mo deposits using principal component residuals. In: Enhanced interpretation of stream sediment geochemical data for NTS map sheet 115I. Yukon Geological Survey, Open File 2016-14, scale 1:250 000, sheet 13 of 15.

Catchment basin polygons generated by the Yukon Geological Survey (J. O. Bruce). Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map and the accompanying report may be obtained from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5. Ph. 867-687-3201, Email geology@gov.yk.ca.

A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.

Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2016-14

Weighted sums model for Porphyry Cu-Mo deposits using principal component residuals (NTS 115I) Sheet 13 of 15

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