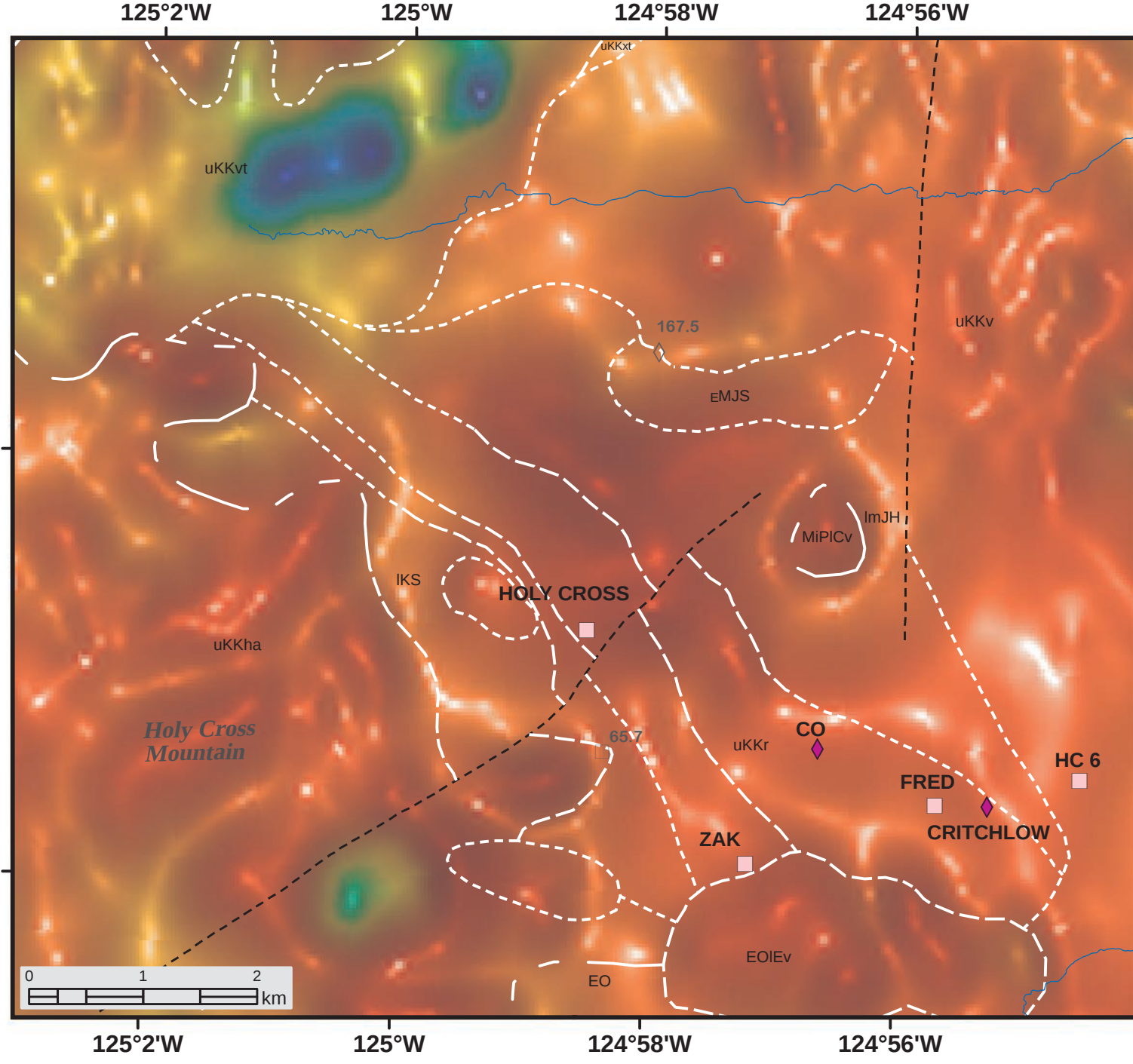


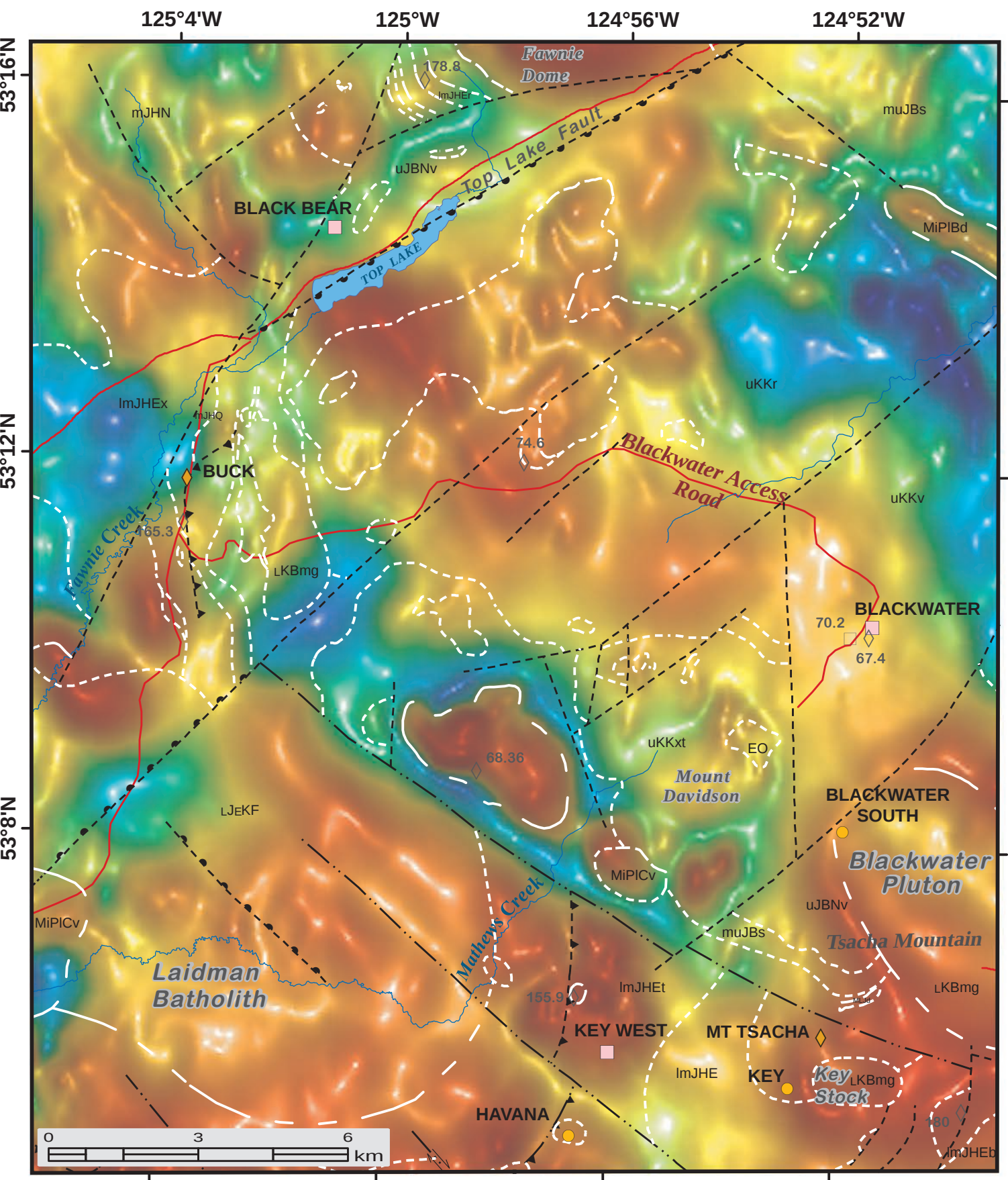
AEROMAGNETIC CORRELATION WITH BEDROCK GEOLOGY, TREK PROJECT AREA, NORTHERN INTERIOR PLATEAU, CENTRAL BRITISH COLUMBIA



Detailed Geology of the Holy Cross Area



Detailed Geology of the Tsacha Mountain Area



VOLCANIC AND SEDIMENTARY ROCKS

Post Accretionary

Miocene to Holocene

MiHoAv Anahim volcanics

Miocene to Pliocene

MiPiCv Chilcotin Group

Eocene to Oligocene

EOIEv Endako Group

Eocene

EO Ootsa Lake Group

Upper Cretaceous

Kasaska Group

uKKhA Andesite to trachyandesite flows

uKKt Crystal-lithic tuff

uKKv Vitric tuff

uKKr Flow-laminated rhyolite

uKKv Undifferentiated Kasaska Group

Lower to Upper Cretaceous

luKNS Nazko belt

IKS Skeena Group

Middle Jurassic to Lower Cretaceous

Bowser Lake Group

IKBMv Moose Lake volcanics

uJBnv Nechako volcanics

muJBs Bowser Lake Group sediments

Stikine Terrane

Lower and Middle Jurassic

Hazelton Group

mJHQ Quick Formation

mJHT Tagai succession

mJHN Naglico Formation

Entiako Formation

ImJHEb Basalt flows

ImJHEr Flow-laminated dacite

ImJHEt Lithic lapilli tuff and ash tuff

ImJHEx Crystal lithic tuff

ImJHE Undifferentiated Entiako Formation

uJHT Telawa Formation

ImJH Undifferentiated Hazelton Group

Perman to Triassic

PTTs Limestone, shale and siltstone

Catch Creek Terrane

Perman to Triassic

PTCCSV Chert, argillite, basalt and limestone

PTCCum Serpentinized peridotite

INTRUSIVE ROCKS

Miocene to Pliocene

MiPbd Basalt dykes

Eocene

EQ Quanchus Plutonic Suite

Late Cretaceous

Blackwater Plutonic Suite

LKBmg Quartz monzonite to monzogranite

LKBd Plagioclase porphyritic diorite

Jurassic to Paleogene

JTg Coast plutonic complex

Late Jurassic to Early Cretaceous

LJKF Francois Lake Plutonic Suite

Middle to Late Jurassic

MLJd Diorite and quartz diorite

Early and Middle Jurassic

EMJS Stag Lake Plutonic Suite

Triassic to Jurassic

TrJBd Brooks diorite complex

METAMORPHIC ROCKS

Jurassic to Cretaceous

JKT Tatla Lake metamorphic complex

Permian to Jurassic

PJV Vanderhoof metamorphic complex

BC MINFILE Occurrences

Volcanic Redbed Cu

Iron oxide breccias and veins P-Cu-Au-Ag-U

Epithermal Au-Ag: low sulphidation

Polymetallic veins Ag-Pb-Zn+Au

Cu-Ag quartz veins

Cu skarn

Porphyry Cu $\pm$ Mo $\pm$ Au

Porphyry Mo (Low F-type)

Ultramafic-hosted asbestos

Volcanic ash - pumice

Geochronology (ages in Ma)

Ar-Ar biotite

K-Ar feldspar

Ar-Ar hornblende

K-Ar whole-rock

Ar-Ar whole-rock

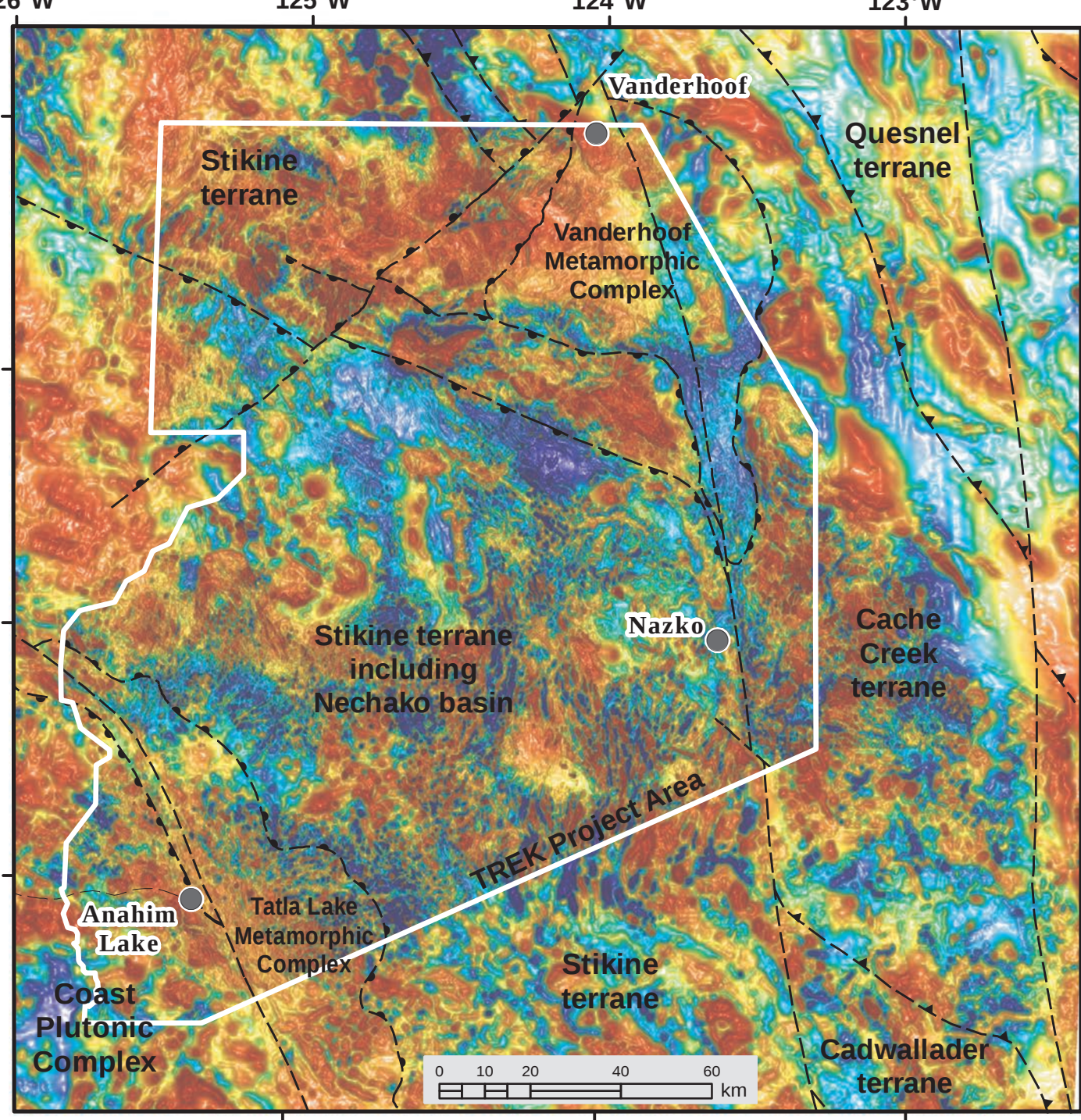
K-Ar biotite

U-Pb zircon

K-Ar hornblende

U-Pb titanite

Tectonic Domains



Faults / Contacts

Thrust fault, approximate / inferred / interpreted from geophysics / concealed

Normal fault, approximate / inferred / interpreted from geophysics / concealed

Dextral fault, approximate / inferred / interpreted from geophysics / concealed

Sinistral fault, approximate / inferred / interpreted from geophysics / concealed

Unknown fault, approximate / inferred / interpreted from geophysics / concealed

Contact, defined / approximate / inferred / interpreted from geophysics

Fold axial trace, inferred / interpreted from geophysics

Reduction to pole (RTP) layer generated from total magnetic grid. The data used to generate the grid are the 2013 TREK Airborne Magnetic Survey (Aerogeosystems, 2014, 62.5m grid cell size, 250m line spacing) and GSC Canada-wide TMI grid (250m grid cell size). The merged grid was generated by Fathom Geophysics.

General

City

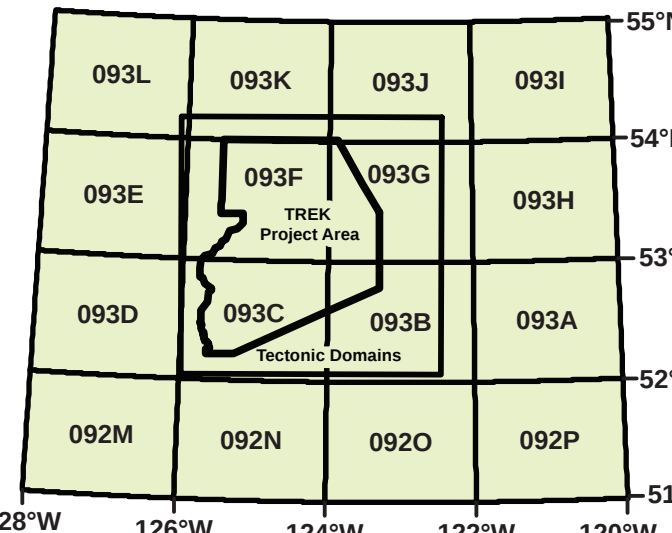
Road

River

Lake

Protected area

National Topographic System



AEROMAGNETIC CORRELATION WITH BEDROCK GEOLOGY, TREK PROJECT AREA, NORTHERN INTERIOR PLATEAU, CENTRAL BRITISH COLUMBIA

PART OF 1:250 000 NTS SHEETS 093 B, C, F & G

J.J. Angen, M. Rahimi, C.J.R. Hart, E. Westberg, J. M. Logan and R. Kim

1:250 000

North American Datum 1983, UTM Projection, Zone 10

July 2017

0 2 10 20 km

0 2 10 20 mi

Magnetic declination

Year 2017

Latitude 53.25° N

Longitude 124.5° W

Model used IGRF12

17.678° E changing by 0.20° W per year

Product of the Mineral Deposit Research Unit of The University of British Columbia as part of Geoscience BC's Targeting Resources through Exploration and Knowledge (TREK) Project. This map comprises new mapping carried out during the summer of 2014 and 2015 as well as interpretation of aeromagnetic data (Aerogeosystems Ltd., 2014) and compilation of previous mapping (Tipper, 1959; 1961; 1963; 1969; Diakow and Levson, 1997; Struik et al., 2007; Mihalynuk et al., 2008; Bordet, 2014; Christie et al., 2014). Geoscience BC is an independent, non-profit organization that generates earth science in collaboration with First Nations, local communities, government, academia and the resource sector. Our independent earth science enables informed resource management decisions and attracts investment and jobs. Geoscience BC gratefully acknowledges the financial support of the Province of British Columbia. The Mineral Deposit Research Unit is a collaborative venture between the mining industry and The University of British Columbia. The unit, which operates on the support and financial assistance provided by the mining industry and the Natural Sciences and Engineering Research Council of Canada, is an internationally recognized research group devoted to solving mineral exploration-related problems.

Recommended Citation: Angen, J.J., Rahimi, M., Hart, C.J.R., Westberg, E., Logan, J.M. and Kim, R. (2017). Aeromagnetic correlation with bedrock geology, TREK project area, northern Interior Plateau, central British Columbia, Geoscience BC Map 2017-06-02 and MDRU Map 13-2017, scale 1:250 000.