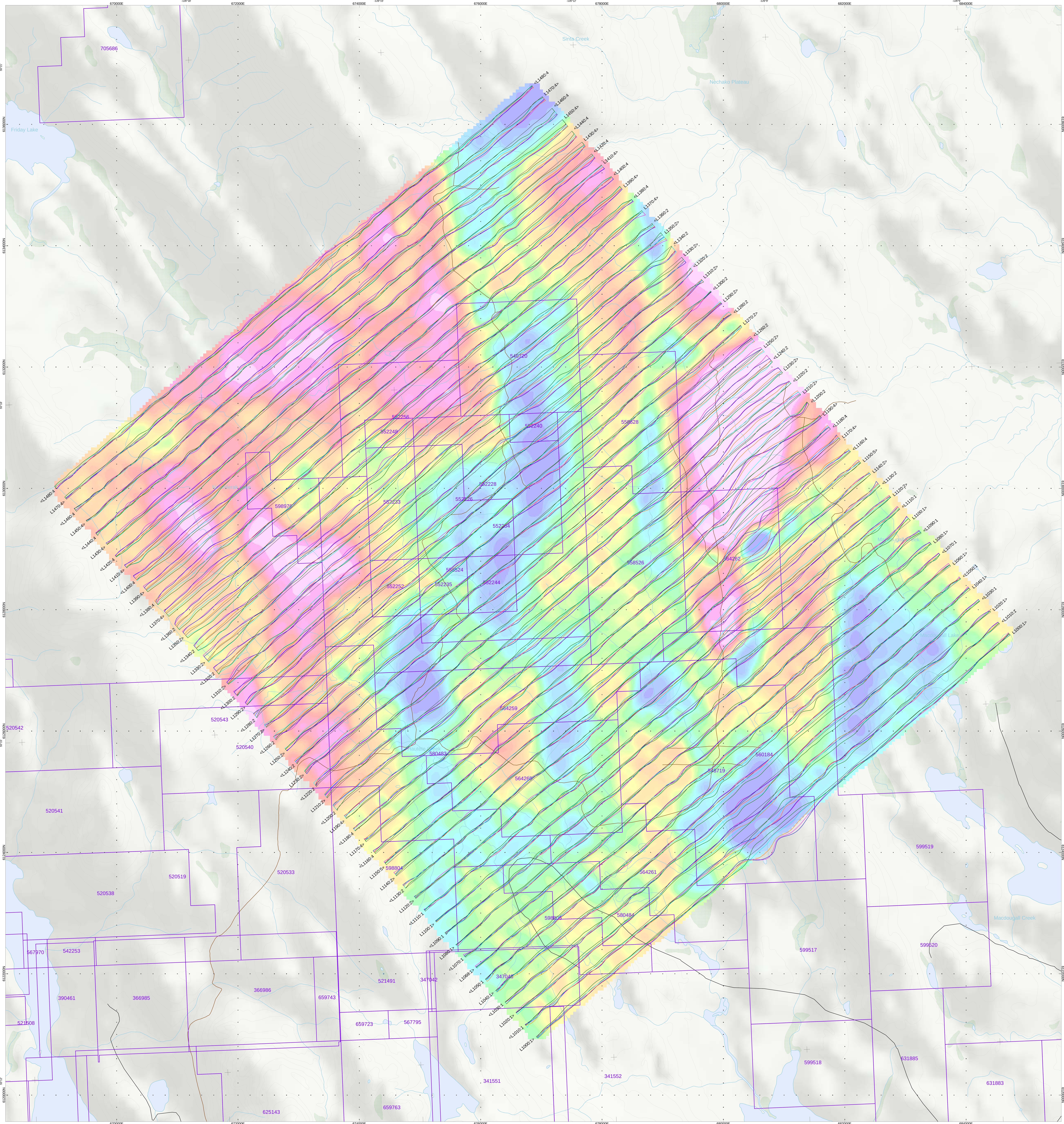


GEOTECH LTD.

Scale 1:10,000,000

100 0 100 200 (kilometers)

WGS 84 / UTM zone 9N

SURVEY SPECIFICATIONS:

Survey Flying Date: May 10th to 13th, 2010
Survey Operations Base: Smithers, British Columbia
Nominal Survey Line Spacing: 250 Meters
Nominal Survey Line Direction: N 49° E / N 229° E
Helicopter Mean Terrain Clearance: 176 metres
Mean Ground Air Speed: 25 metres/sec
ZTEM airborne coil: towed at a mean distance of 74 m below the helicopter
Airborne Magnetometer bird: towed at a mean distance of 57 m below the helicopter

HELICOPTER SPECIFICATIONS

Helicopter Type: Aerospatiale A-Star 350 B3 (C-FEDS)

AIRBORNE INSTRUMENTATION

Survey Type: Helicopter Z-Axis Tipper Electromagnetic (ZTEM), Magnetic towed Bird
GPS Receivers (4): NovAtel CDGPS enabled Propak V3-RT20
GPS Receivers Location: One on the helicopter, three on EM coil
Radar Altimeter: Terra TRA 3000/TRI 40
Navigation: GEONAV-3

AIRBORNE ELECTROMAGNETIC SYSTEM

Electromagnetic System: Geotech Z-Axis Tipper (ZTEM)
Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

AIRBORNE MAGNETOMETER

Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION

MAGNETIC BASE STATION

Magnetometer: GEOMETRICS
Base Station Location: at lodge site (55°3'14.10 N, 126°30'34.61 W)

EM BASE STATION

Two orthogonal square coils
Coil dimensions: 3.5 metres each side
Coil orientation: Horizontal Dipole
Base Station Location: in a large clearing (55°13.093 N, 126°11.817 W)
Azimuth : AzA = N 102° E AzB = N 192° E

PROCESSING SUMMARY

MAGNETICS:

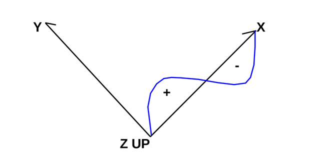
Diurnal Subtraction, microlevelling

ZTEM:

Frequencies extracted: 30, 45, 90, 180, 360Hz.
Sampling rate: 0.4 sec.
Rotation of the inphase part of the inline and orthogonal components (Z/Xloc and Z/Yloc)on to UTM Eastings and Northings.
Attitude correction applied, (calculated from 3 GPS recievers installed on aiborne coil).
DIV(Tilt) calculated: dXcomp/dX+dYcomp/dY for all 5 frequencies.
Phase Rotated Grids (90 deg) calculated from each individual X and Y component grids, for each individual frequency.

MAP PROJECTION

Datum: NAD83
Projection: Universal Transverse Mercator
Central Meridian: 129°W (Zone 9N)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
Major Axis: 6378137.0
Eccentricity: 0.08181919084
NTS: 093M01 & 093M08



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0.0386
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0.0276
0.0244
0.0213
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0.0160
0.0132
0.0105
0.0077
0.0049
0.0024
0.0001
-0.0020
-0.0039
-0.0057
-0.0077
-0.0097
-0.0116
-0.0136
-0.0156
-0.0176
-0.0198
-0.0222
-0.0247
-0.0271
-0.0297
-0.0325
-0.0356
-0.0390
-0.0433
-0.0492
-0.0561
-0.0675

90Hz Z/Y QD

Quadrature Frequencies
0.015 units per mm
Profile Base 0

30 Hz
45 Hz
90 Hz
180 Hz
360 Hz

TOPOGRAPHIC LEGEND:

Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000

250 0 250 500 750 1000

(meters)

WGS 84 / UTM zone 9N

The topographic data base was derived from 1:50,000 NRC (Natural Resources Canada) NTDB data
Background shading is derived from NASA SRTM (Shuttle Radar Topographic Mission) data
Inset data derived from Geocommunities 1:250,000 Canadian National Topographic database
Mineral Dispositions are derived from the British Columbia Government Land and Resources Data Warehouse (http://aardvark.gov.bc.ca)
Geogratis (www.geogratis.ca) Geocommunities (www.geocomm.com)

Copper Ridge Explorations Inc.
Babine Project
Smithers, British Columbia

Geotech ZTEM System
Z/Y (Cross-line) Quardrature Profiles over 90Hz Z/Y (Cross-line) Quadrature Phase Rotated Grid

Flown and processed by Geotech Ltd.
245 Industrial Parkway North,
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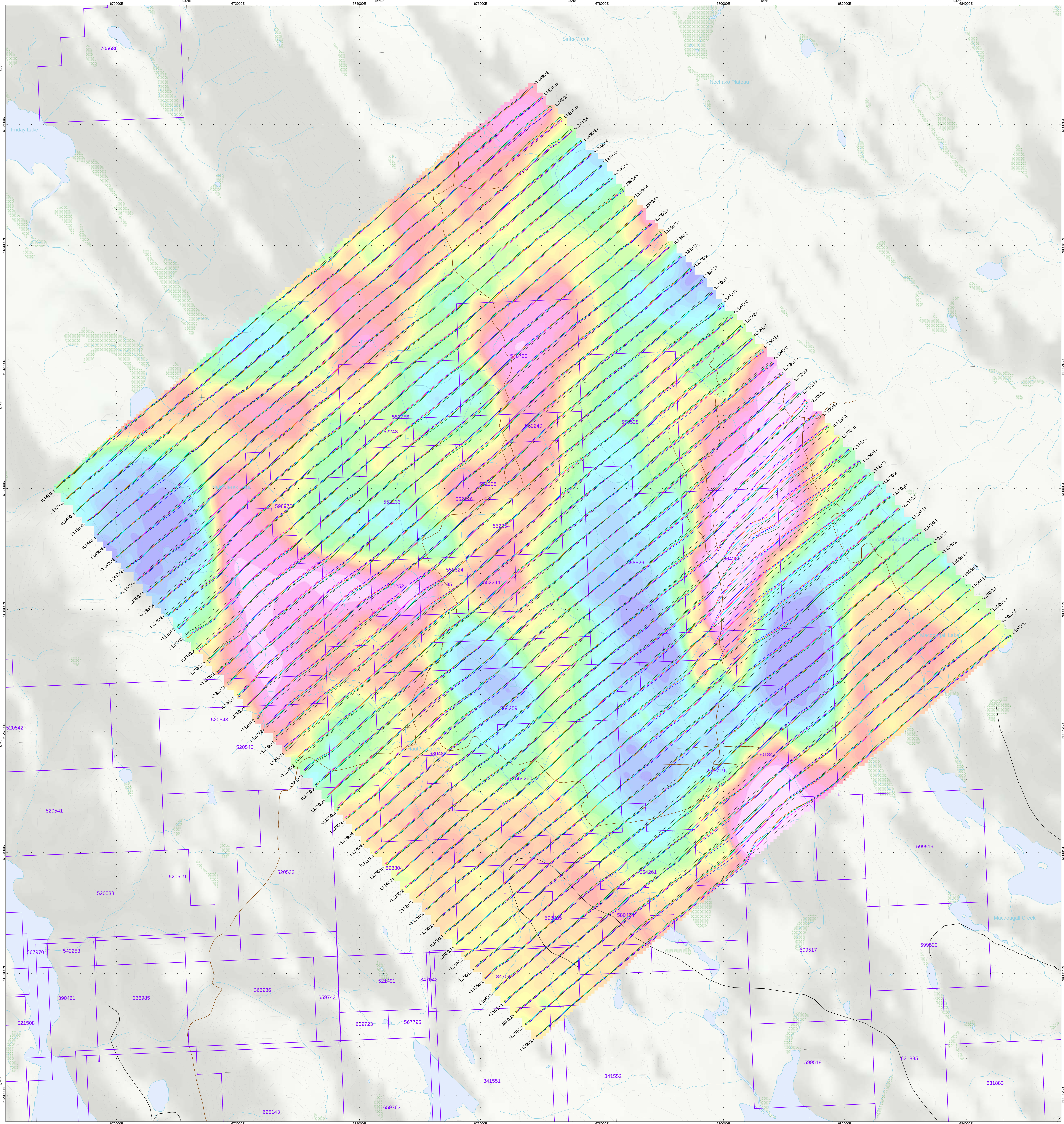
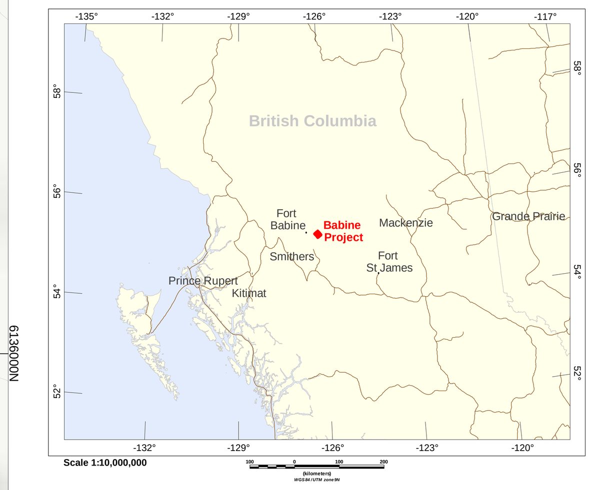
www.geotech.ca

June 2010





SURVEY SPECIFICATIONS:

Survey Flying Date: May 10th to 13th, 2010
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AIRBORNE INSTRUMENTATION

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Navigation: GEONAV-3

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Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

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Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION

MAGNETIC BASE STATION

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PROCESSING SUMMARY

MAGNETICS:

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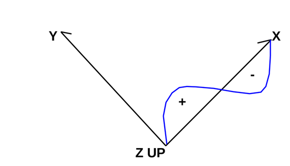
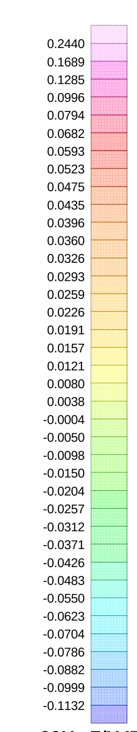
MAP PROJECTION

Datum: NAD83
Projection: Universal Transverse Mercator
Central Meridian: 129°W (Zone 9N)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
Major Axis: 6378137.0
Eccentricity: 0.08181919084
NTS: 093M01 & 093M08





90Hz Z/Y IP

In-Phase Frequencies
0.05 units per mm
Profile Base 0

30 Hz
45 Hz
90 Hz
180 Hz
360 Hz

TOPOGRAPHIC LEGEND:

Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000

250 0 250 500 750 1000

(meters)

WGS 84 / UTM zone 9N

The topographic data base was derived from 1:50,000 NRC (Natural Resources Canada) NTDB data
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Copper Ridge Explorations Inc.
Babine Project
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Geotech ZTEM System
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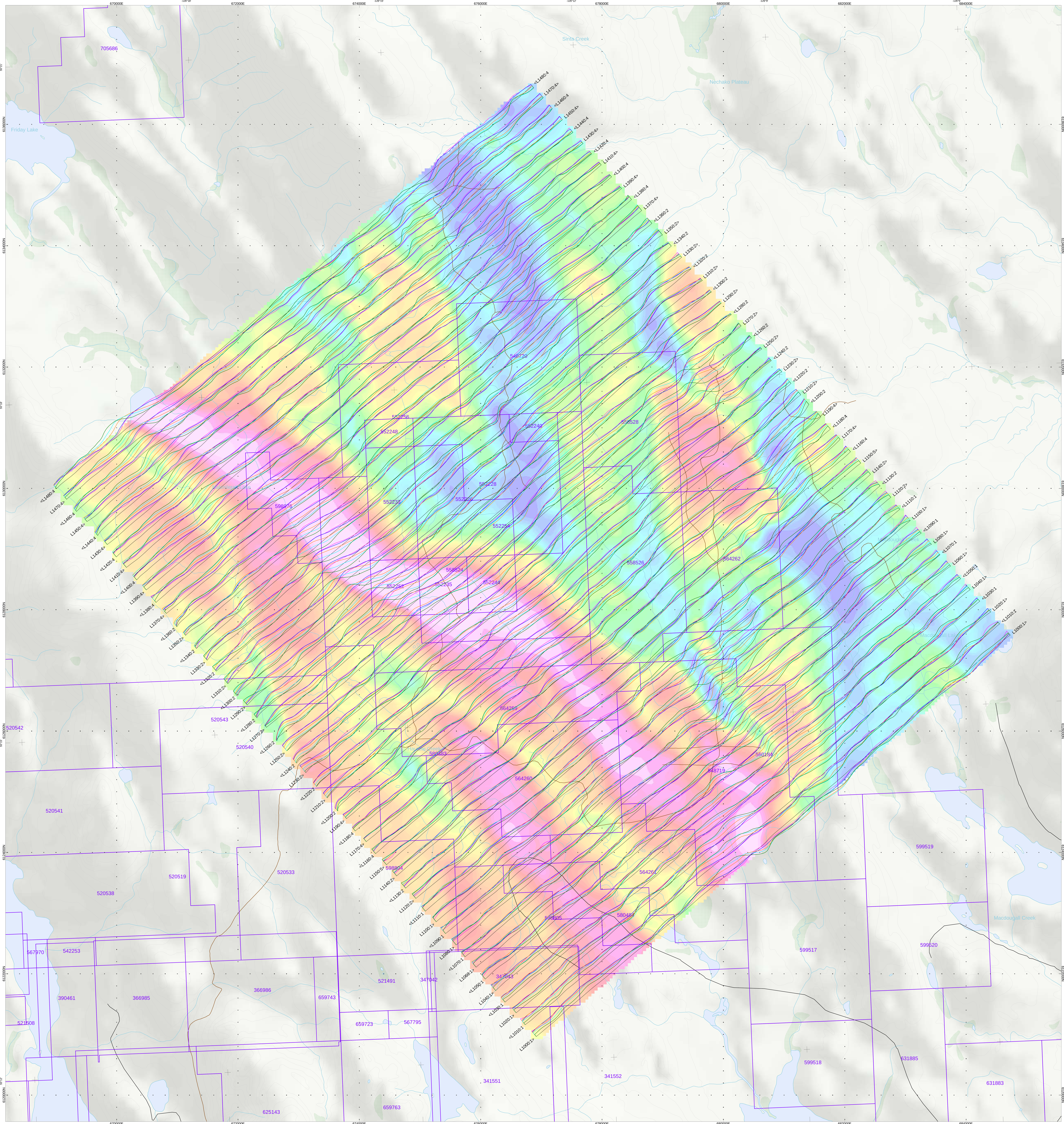
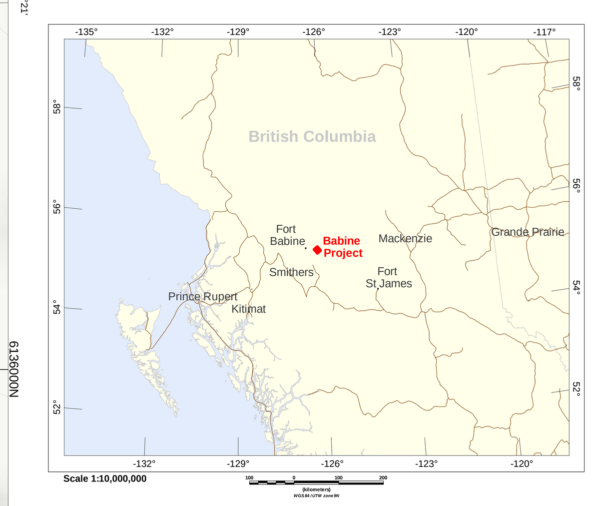
June 2010





SURVEY SPECIFICATIONS:

Survey Flying Date: May 10th to 13th, 2010
Survey Operations Base: Smithers, British Columbia
Nominal Survey Line Spacing: 250 Meters
Nominal Survey Line Direction: N 49° E / N 229° E
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HELICOPTER SPECIFICATIONS

Helicopter Type: Aerospatiale A-Star 350 B3 (C-FEDS)

AIRBORNE INSTRUMENTATION

Survey Type: Helicopter Z-Axis Tipper Electromagnetic (ZTEM), Magnetic towed Bird
GPS Receivers (4): NovAtel CDGPS enabled Propak V3-RT20
GPS Receivers Location: One on the helicopter, three on EM coil
Radar Altimeter: Terra TRA 3000/TRI 40
Navigation: GEONAV-3

AIRBORNE ELECTROMAGNETIC SYSTEM

Electromagnetic System: Geotech Z-Axis Tipper (ZTEM)
Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

AIRBORNE MAGNETOMETER

Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION

MAGNETIC BASE STATION

Magnetometer: GEOMETRICS
Base Station Location: at lodge site (55°3'14.10 N, 126°30'34.61 W)

EM BASE STATION

Two orthogonal square coils
Coil dimensions: 3.5 metres each side
Coil orientation: Horizontal Dipole
Base Station Location: in a large clearing (55°13.093 N, 126°11.817 W)
Azimuth : AzA = N 102° E AzB = N 192° E

PROCESSING SUMMARY

MAGNETICS:

Diurnal Subtraction, microlevelling

ZTEM:

Frequencies extracted: 30, 45, 90, 180, 360Hz.
Sampling rate: 0.4 sec.
Rotation of the inphase part of the inline and orthogonal components (Z/Xloc and Z/Yloc)on to UTM Eastings and Northings.
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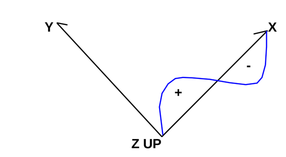
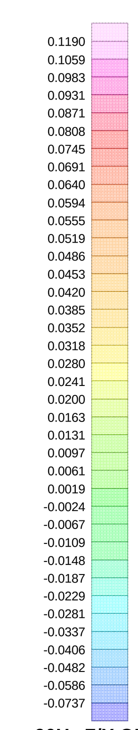
Phase Rotated Grids (90 deg) calculated from each individual X and Y component grids, for each individual frequency.

MAP PROJECTION

Datum: NAD83
Projection: Universal Transverse Mercator
Central Meridian: 129°W (Zone 9N)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
Major Axis: 6378137.0
Eccentricity: 0.08181919084
NTS: 093M01 & 093M08

BC Geological Survey
Assessment Report
32356b





90Hz Z/X QD

Quadrature Frequencies
0.015 units per mm
Profile Base 0

30 Hz
45 Hz
90 Hz
180 Hz
360 Hz

TOPOGRAPHIC LEGEND:

Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000

250 0 250 500 750 1000

(meters)

WGS 84 / UTM zone 9N

The topographic data base was derived from 1:50,000 NRC (Natural Resources Canada) NTDB data
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Babine Project
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June 2010

GEOTECH LTD.

SURVEY SPECIFICATIONS:
Survey Flying Date: May 10th to 13th, 2010
Survey Operations Base: Smithers, British Columbia
Nominal Survey Line Spacing: 250 Meters
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HELICOPTER SPECIFICATIONS
Helicopter Type: Aerospatiale A-Star 350 B3 (C-FEDS)

AIRBORNE INSTRUMENTATION
Survey Type: Helicopter Z-Axis Tipper Electromagnetic (ZTEM), Magnetic towed Bird
GPS Receivers (4): NovAtel CDGPS enabled Propak V3-RT20
GPS Receivers Location: One on the helicopter, three on EM coil
Radar Altimeter: Terra TRA 3000/TRI 40
Navigation: GEONAV-3

AIRBORNE ELECTROMAGNETIC SYSTEM
Electromagnetic System: Geotech Z-Axis Tipper (ZTEM)
Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

AIRBORNE MAGNETOMETER
Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION
MAGNETIC BASE STATION
Magnetometer: GEOMETRICS
Base Station Location: at lodge site (55°3'14.10 N, 126°30'34.61 W)

EM BASE STATION
Two orthogonal square coils
Coil dimensions: 3.5 metres each side
Coil orientation: Horizontal Dipole
Base Station Location: in a large clearing (55°13.093 N, 126°11.817 W)
Azimuth : AzA = N 102° E AzB = N 192° E

PROCESSING SUMMARY
MAGNETICS:
Diurnal Subtraction, microlevelling

ZTEM:
Frequencies extracted: 30, 45, 90, 180, 360Hz.
Sampling rate: 0.4 sec.
Rotation of the inphase part of the inline and orthogonal components (Z/Xloc and Z/Yloc)on to UTM Eastings and Northings.
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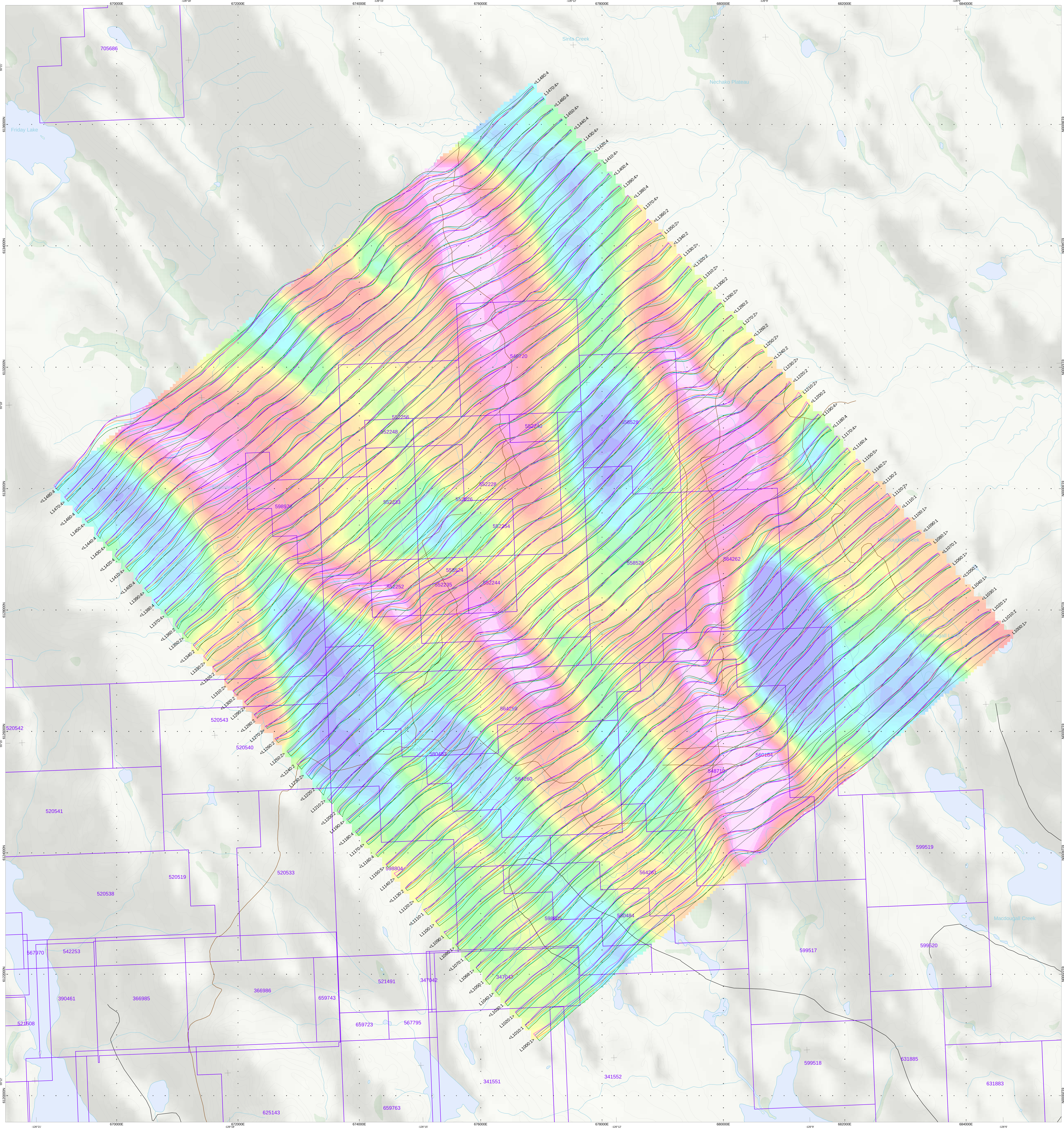
MAP PROJECTION
Datum: NAD83
Projection: Universal Transverse Mercator
Central Meridian: 129°W (Zone 9N)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
Major Axis: 6378137.0
Eccentricity: 0.08181919084
NTS: 093M01 & 093M08



90Hz Z/X IP

In-Phase Frequencies
0.025 units per mm
Profile Base 0

30 Hz	
45 Hz	
90 Hz	
180 Hz	
360 Hz	

TOPOGRAPHIC LEGEND:
Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000
250 0 250 500 750 1000
(meters)
WGS 84 / UTM zone 9N

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Babine Project
Smithers, British Columbia

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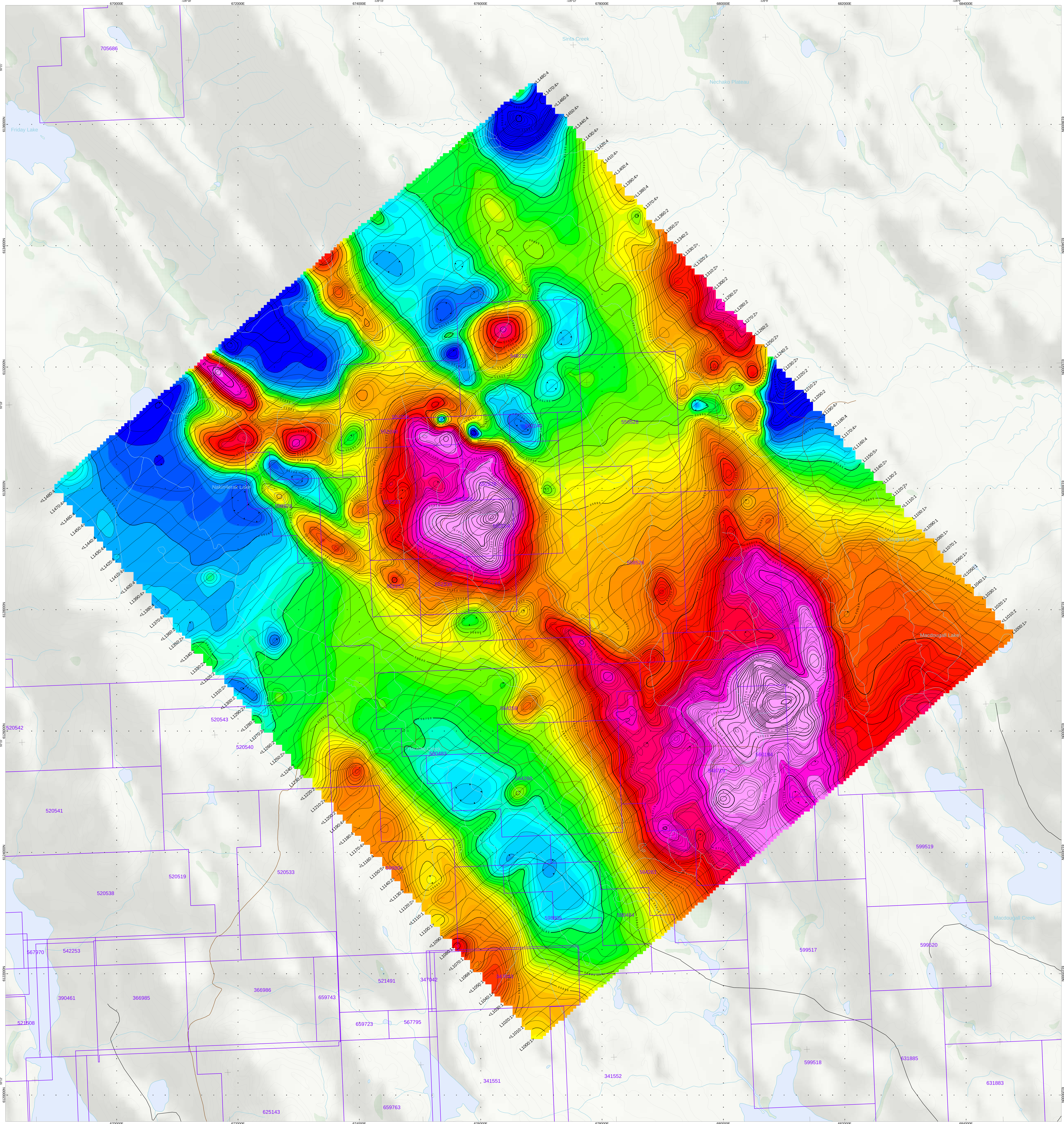
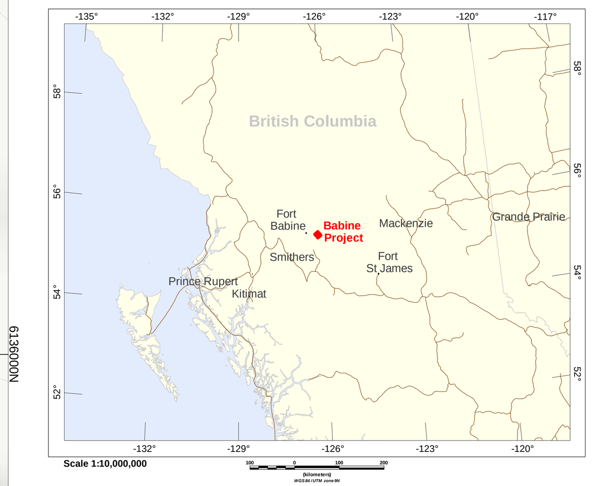
June 2010



GEOTECH LTD.



SURVEY SPECIFICATIONS:

Survey Flying Date: May 10th to 13th, 2010
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Helicopter Type: Aerospatiale A-Star 350 B3 (C-FEDS)

AIRBORNE INSTRUMENTATION

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GPS Receivers (4): NovAtel CDGPS enabled Propak V3-RT20
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Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

AIRBORNE MAGNETOMETER

Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION

MAGNETIC BASE STATION

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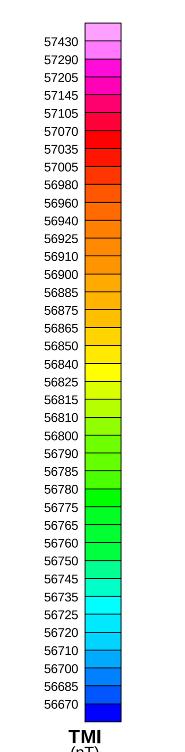

TMI Contour Intervals:
10 nT
50 nT
250 nT

TOPOGRAPHIC LEGEND:
Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000
250 0 250 500 750 1000
(meters)
WGS 84 / UTM zone 9N

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Geogratis (www.geogratis.ca) Geocommunities (www.geocomm.com)

Copper Ridge Explorations Inc.
Babine Project
Smithers, British Columbia

Geotech ZTEM System
Total Magnetic Intensity
TMI

Flown and processed by Geotech Ltd.
245 Industrial Parkway North,
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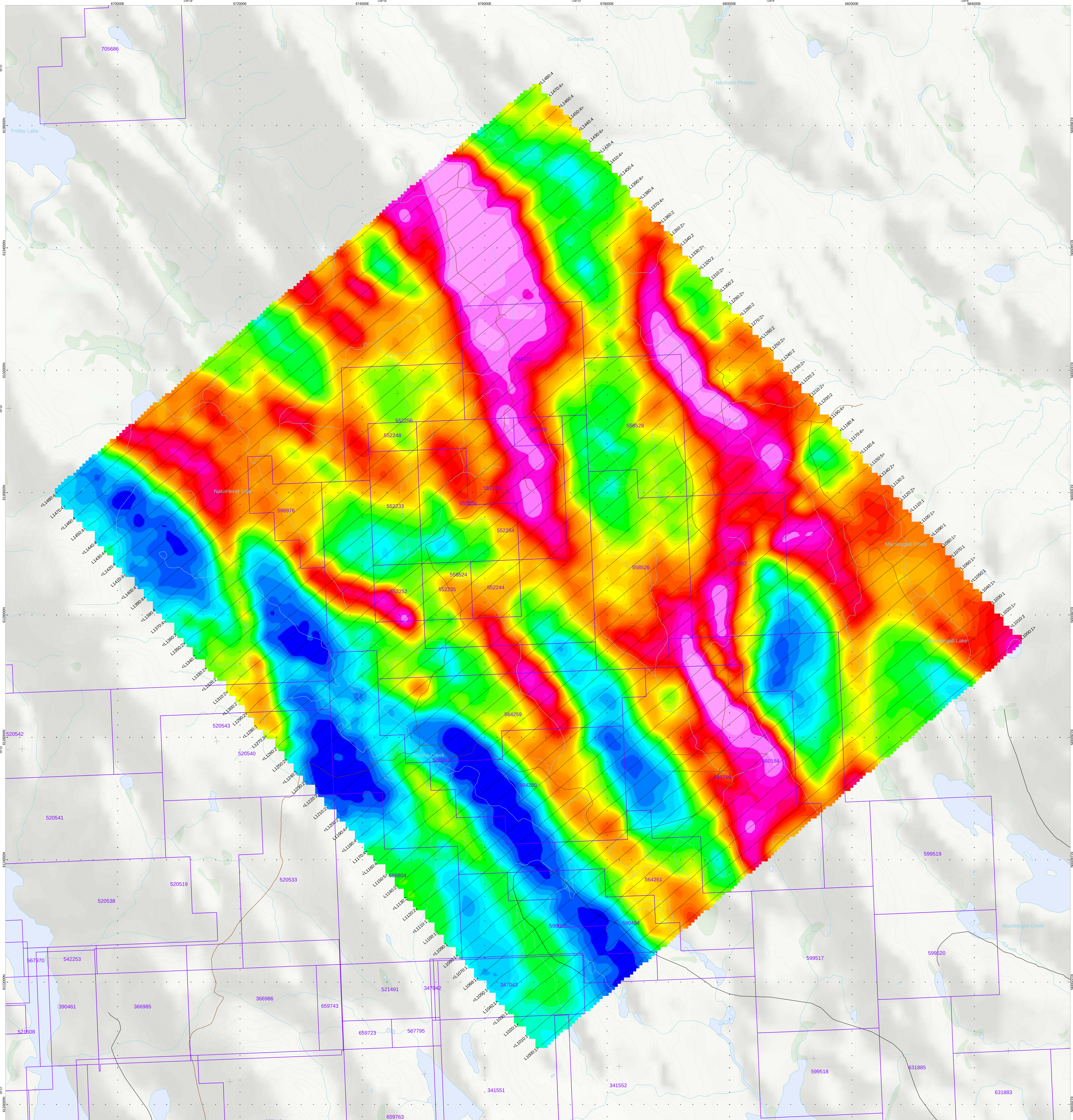
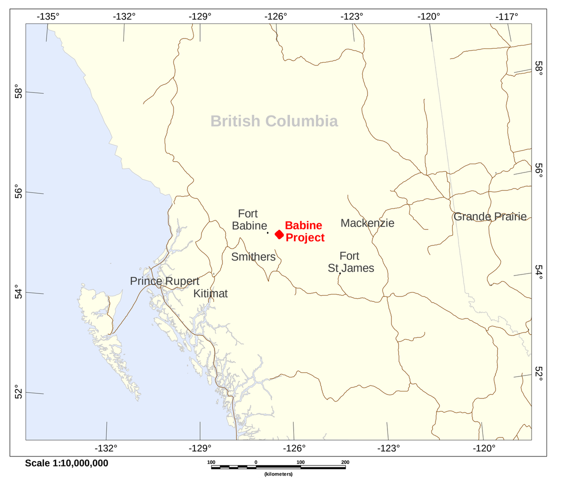
June 2010





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Magnetometer Sensitivity: +/- 0.02 nT
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MAGNETIC BASE STATION

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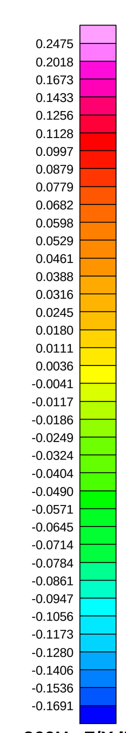
Diurnal Subtraction, microlevelling

ZTEM:

Frequencies extracted: 30, 45, 90, 180, 360Hz.
Sampling rate: 0.4 sec.
Rotation of the inphase part of the inline and orthogonal components (Z/Xloc and Z/Yloc)on to UTM Eastings and Northings.
Attitude correction applied, (calculated from 3 GPS recievers installed on aiborne coil).
DIV(Tilt) calculated: dXcomp/dX+dYcomp/dY for all 5 frequencies.
Phase Rotated Grids (90 deg) calculated from each individual X and Y component grids, for each individual frequency.

MAP PROJECTION

Datum: NAD83
Projection: Universal Transverse Mercator
Central Meridian: 129°W (Zone 9N)
Central Scale Factor: 0.9996
False Easting/Northing: 500,000m/0m
Major Axis: 6378137.0
Eccentricity: 0.08181919084
NTS: 093M01 & 093M08



360Hz Z/X IP

TOPOGRAPHIC LEGEND:

Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000

250 0 250 500 750 1000
(meters)
WGS 84 / UTM zone 9N

The topographic data base was derived from 1:50,000 NRC (Natural Resources Canada) NTDB data
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Geogratis (www.geogratis.ca) Geocommunities (www.geocomm.com)

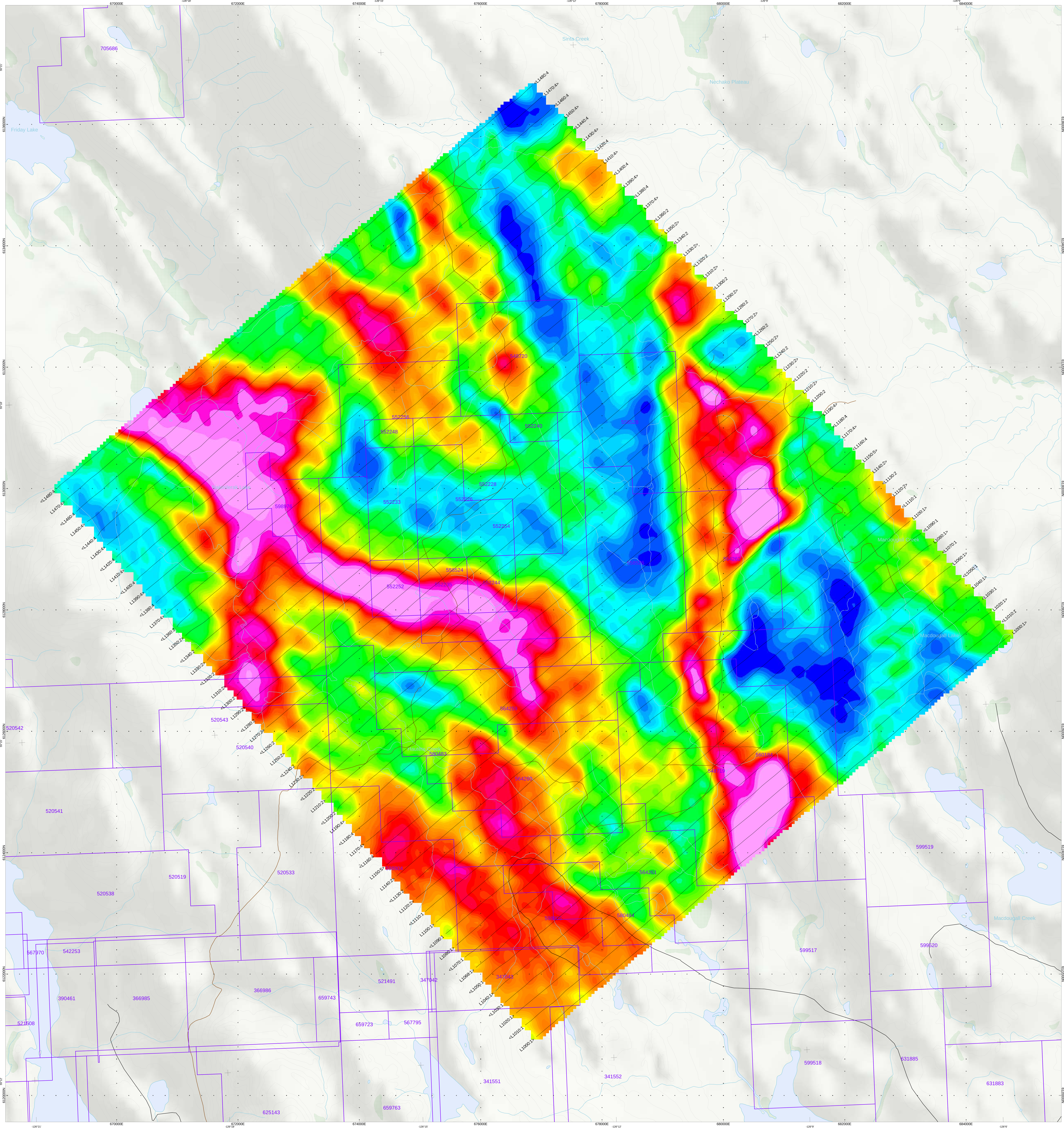
Copper Ridge Explorations Inc.
Babine Project
Smithers, British Columbia

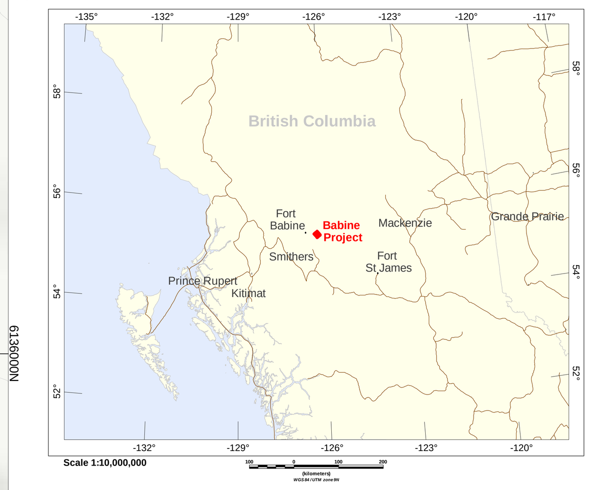
Geotech ZTEM System
360Hz Phase Rotated In-Phase Z/X (In-line) Grid

Flown and processed by Geotech Ltd.
245 Industrial Parkway North,
Aurora, Ontario, Canada L4G 4C4
www.geotech.ca

June 2010

GEOTECH LTD.





SURVEY SPECIFICATIONS:

Survey Flying Date: May 10th to 13th, 2010
Survey Operations Base: Smithers, British Columbia
Nominal Survey Line Spacing: 250 Meters
Nominal Survey Line Direction: N 49° E / N 229° E
Helicopter Mean Terrain Clearance: 176 metres
Mean Ground Air Speed: 25 metres/sec
ZTEM airborne coil: towed at a mean distance of 74 m below the helicopter
Airborne Magnetometer bird: towed at a mean distance of 57 m below the helicopter

HELICOPTER SPECIFICATIONS

Helicopter Type: Aerospatiale A-Star 350 B3 (C-FEDS)

AIRBORNE INSTRUMENTATION

Survey Type: Helicopter Z-Axis Tipper Electromagnetic (ZTEM), Magnetic towed Bird
GPS Receivers (4): NovAtel CDGPS enabled Propak V3-RT20
GPS Receivers Location: One on the helicopter, three on EM coil
Radar Altimeter: Terra TRA 3000/TRI 40
Navigation: GEONAV-3

AIRBORNE ELECTROMAGNETIC SYSTEM

Electromagnetic System: Geotech Z-Axis Tipper (ZTEM)
Coil dimensions: 7.4 metres diameter
Coil orientation: Vertical Dipole
Digitizing rate: 2000Hz

AIRBORNE MAGNETOMETER

Magnetometer: GEOMETRICS
Magnetometer Sensitivity: +/- 0.02 nT
Sampling Rate: 0.2 Hz

GROUND INSTRUMENTATION

MAGNETIC BASE STATION

Magnetometer: GEOMETRICS
Base Station Location: at lodge site (55°3'14.10 N, 126°30'34.61 W)

EM BASE STATION

Two orthogonal square coils
Coil dimensions: 3.5 metres each side
Coil orientation: Horizontal Dipole
Base Station Location: in a large clearing (55°13.093 N, 126°11.817 W)
Azimuth : AzA = N 102° E AzB = N 192° E

PROCESSING SUMMARY

MAGNETICS:

Diurnal Subtraction, microlevelling

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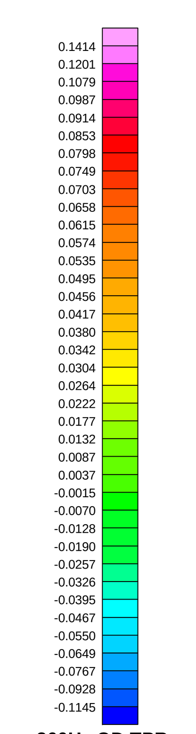

360Hz QD TPR

TOPOGRAPHIC LEGEND:

Roads
Trails
Contours
Rivers
Lakes
Wetlands
Mining Claims

Scale 1:20000

250 0 250 500 750 1000

(meters)

WGS 84 / UTM zone 9N

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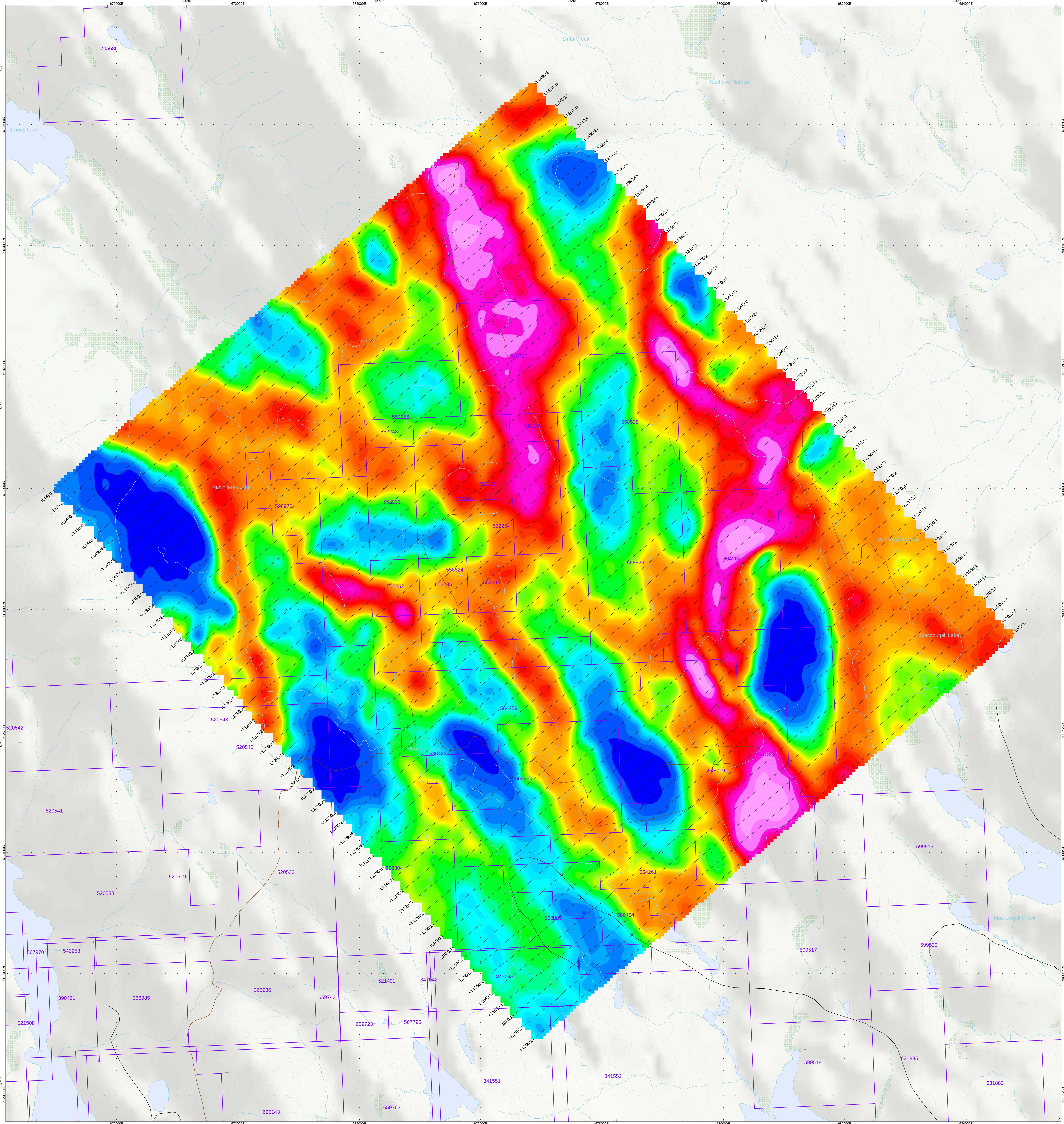
Copper Ridge Explorations Inc.
Babine Project
Smithers, British Columbia

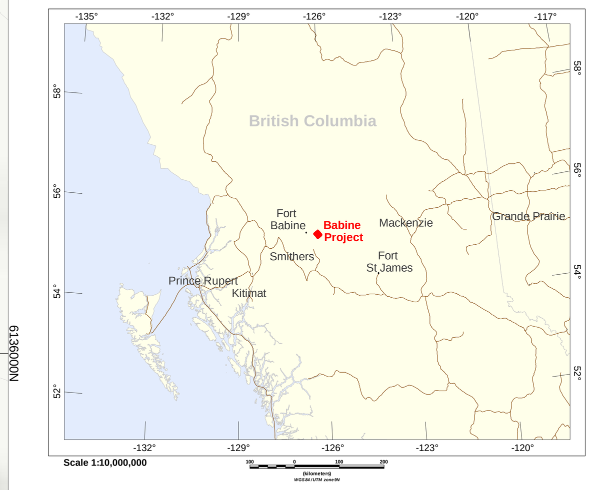
Geotech ZTEM System
360Hz Quadrature Total Phase Rotated (TPR) Grid

Flown and processed by Geotech Ltd.
245 Industrial Parkway North,
Aurora, Ontario, Canada L4G 4C4
www.geotech.ca

June 2010



GEOTECH LTD.



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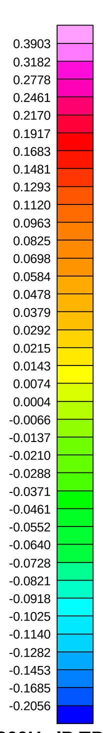

360Hz IP TPR

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June 2010