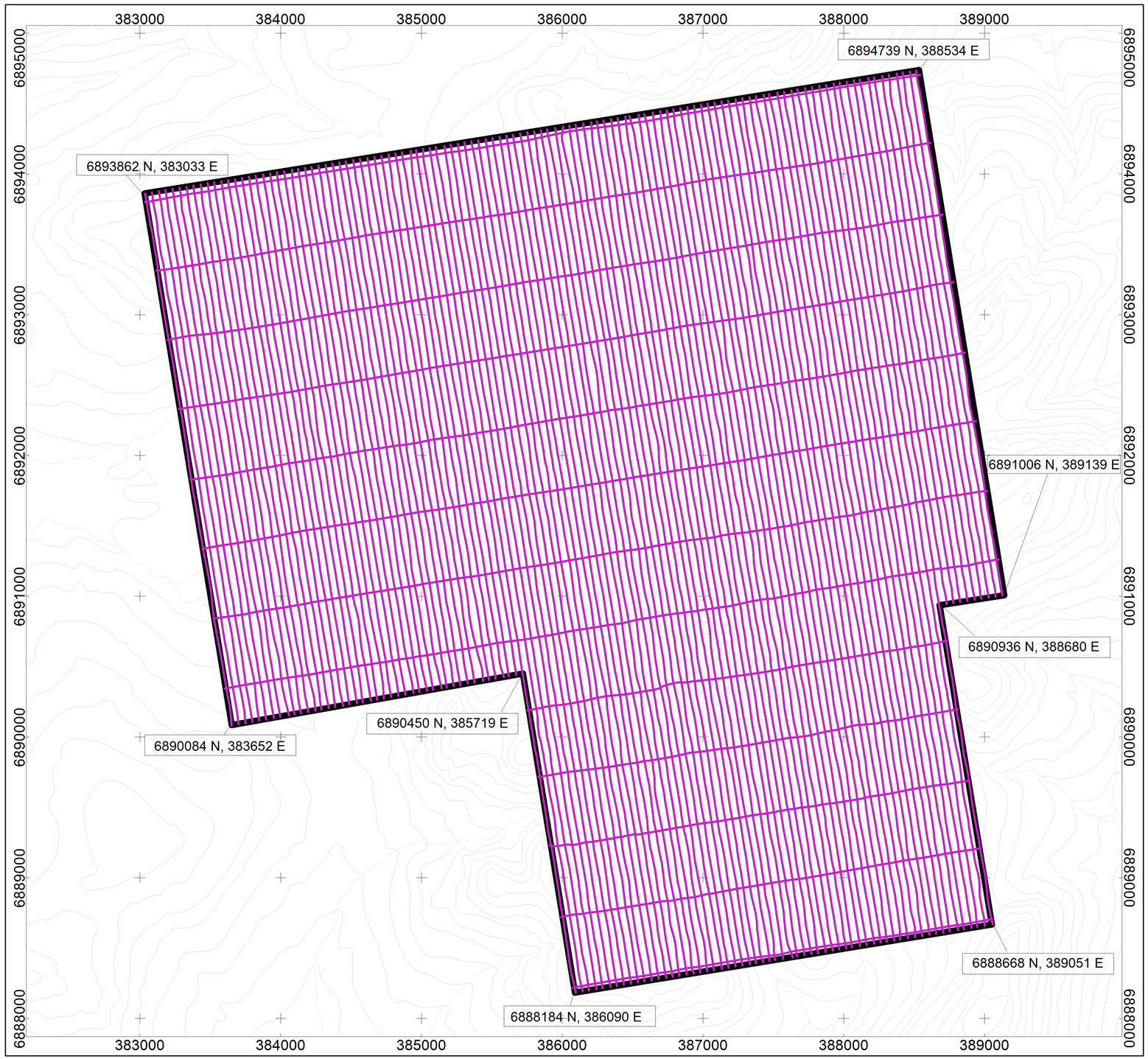

Scale 1:15000

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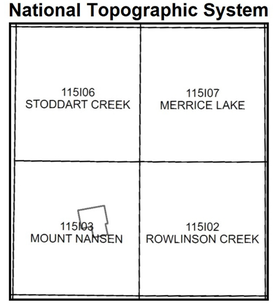
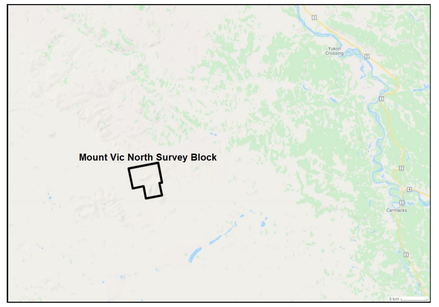
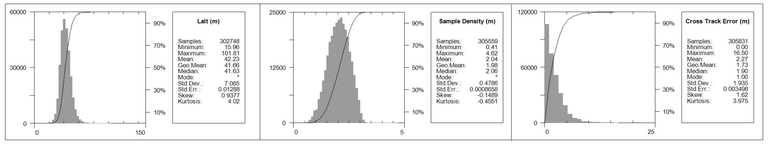
(meters)

WGS 84 / UTM zone 8N

National Topographic System







MAP PROJECTION
Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

- Water Bodies
- Elevation Contours, 100 ft Interval
- Mount Vic North Survey Block Boundary
- Actual Flight Lines

TOPOGRAPHIC REFERENCE
National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_mcan/vector/ntdb_bndt/>[2007]

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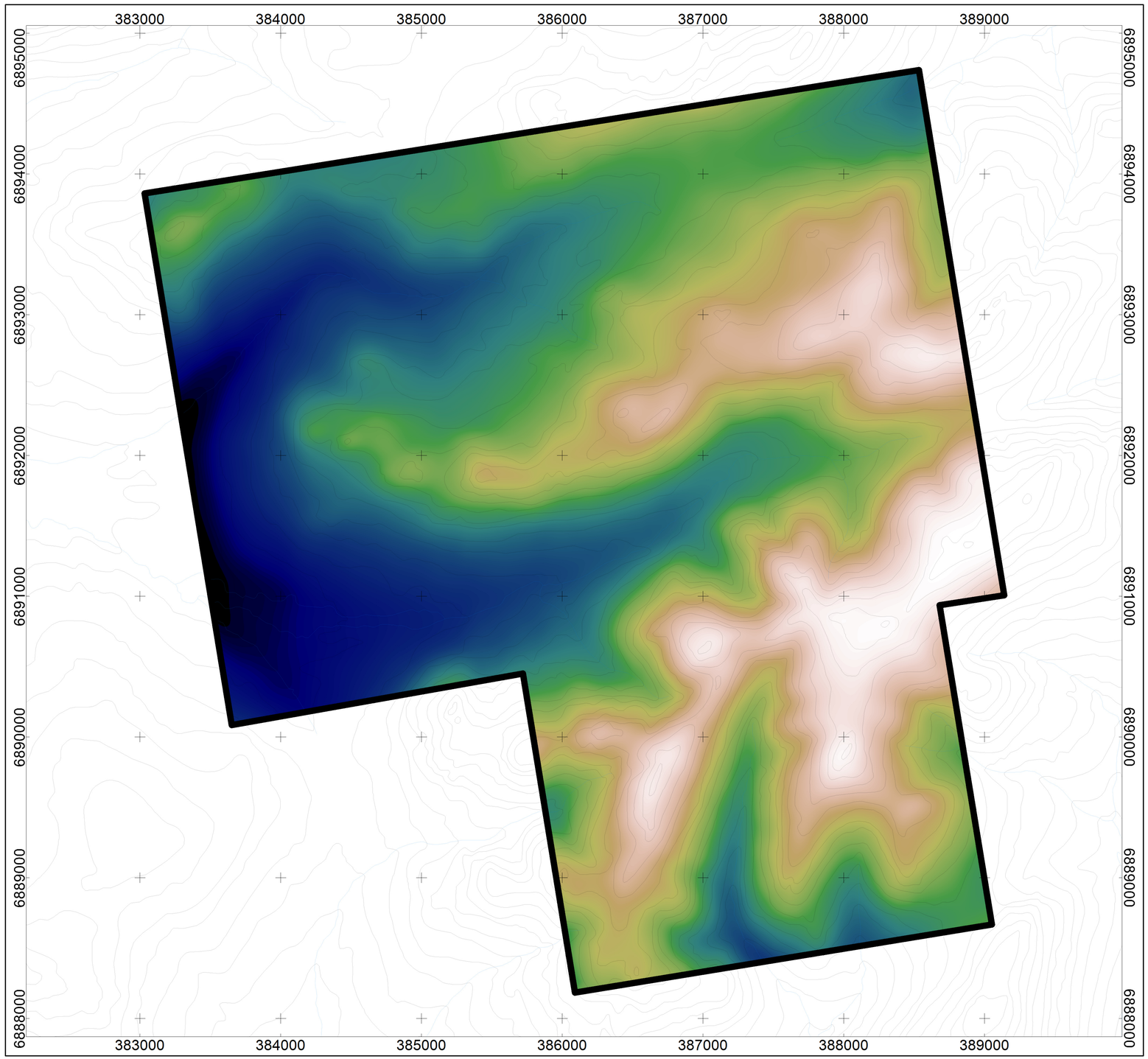
Mount Vic North Survey Block

Overview Map
Actual Flight Lines

Precision GeoSurveys

Job #20138
August 28, 2020

P1_N
FL



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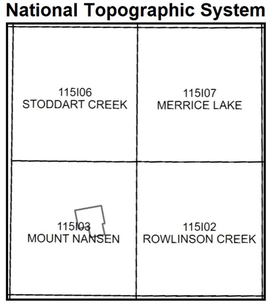
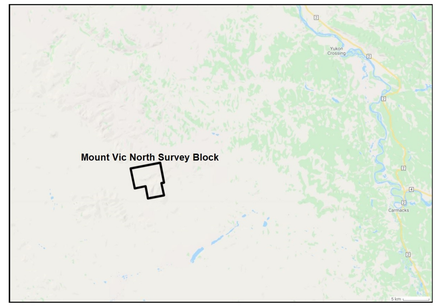
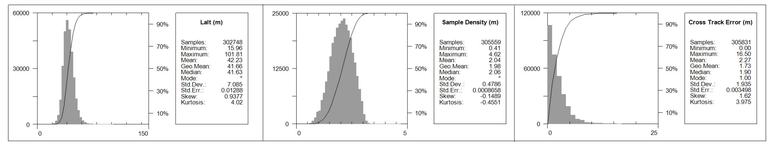
(meters)

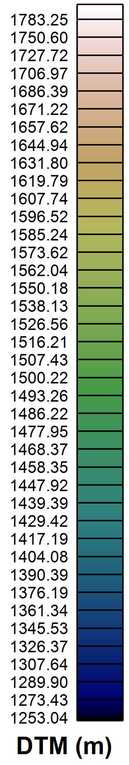
WGS 84 / UTM zone 8N

National Topographic System









MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....
Elevation Contours, 100 ft Interval.....
Mount Vic North Survey Block Boundary.....

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

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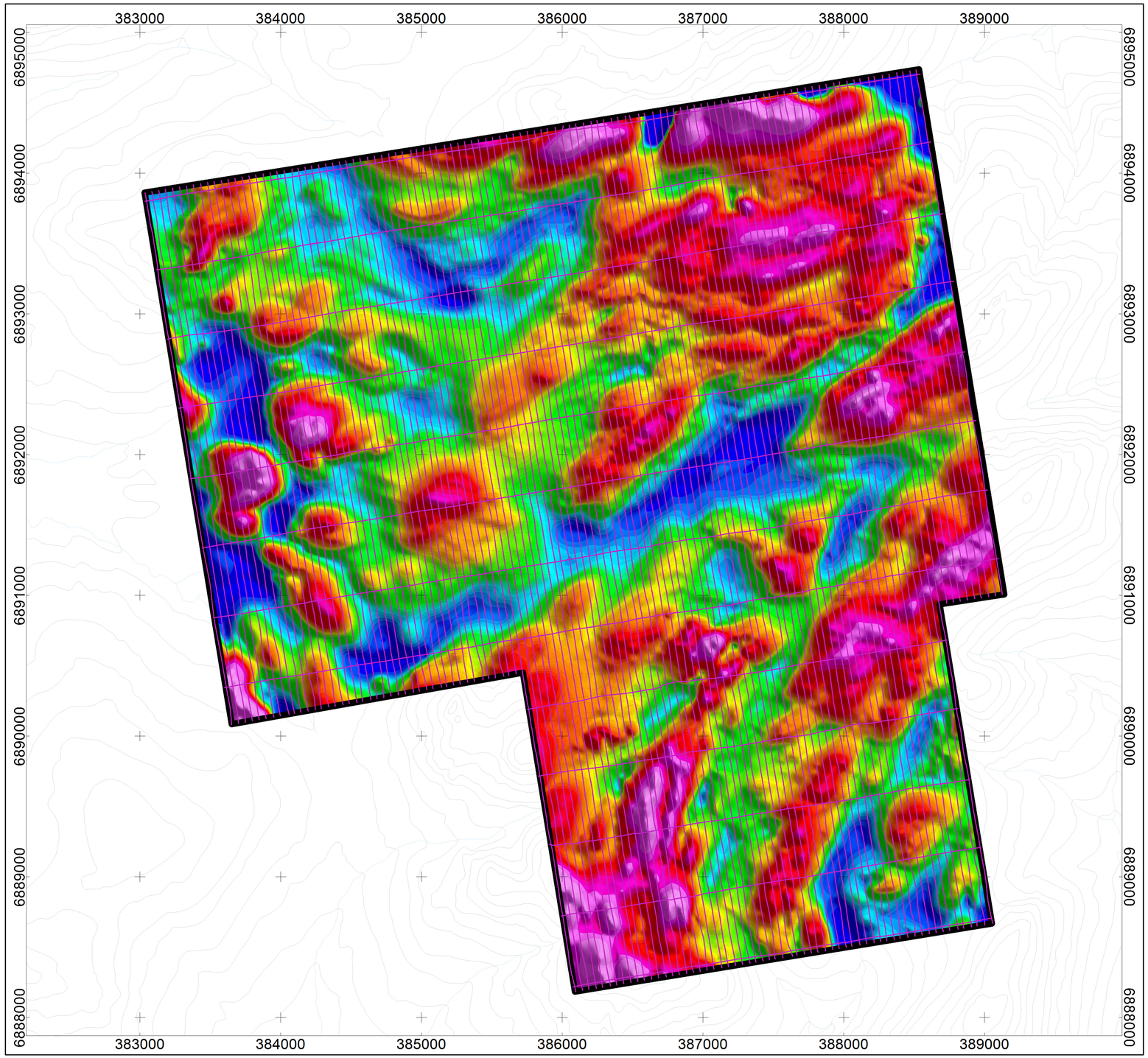
Mount Vic North Survey Block

Overview Map
Digital Terrain Model

Precision GeoSurveys

Job #20138
August 28, 2020

P2_N
DTM



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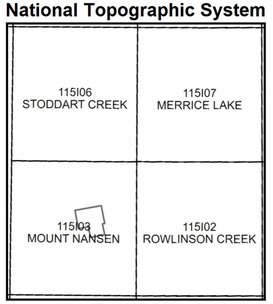
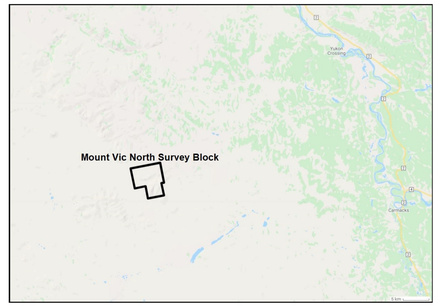
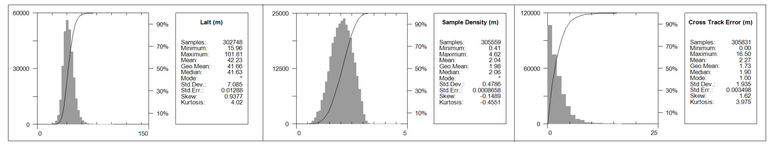
(meters)

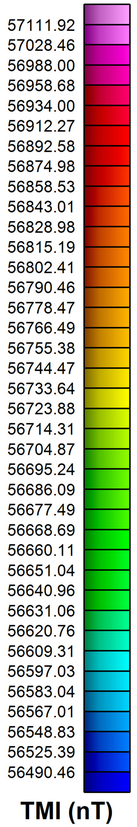
WGS 84 / UTM zone 8N

National Topographic System









MAP PROJECTION
Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
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Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

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Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....

Elevation Contours, 100 ft Interval.....

Mount Vic North Survey Block Boundary.....

Actual Flight Lines.....

DATA REFERENCE
Magnetic data have been compensated and corrected for temporal variations, lag, and heading; then leveled to generate the Total Magnetic Intensity (TMI) grid. Refer to report for details. TMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE
National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_mcan/vector/ntdb_bndt/>[2007]

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Mount Vic North Survey Block

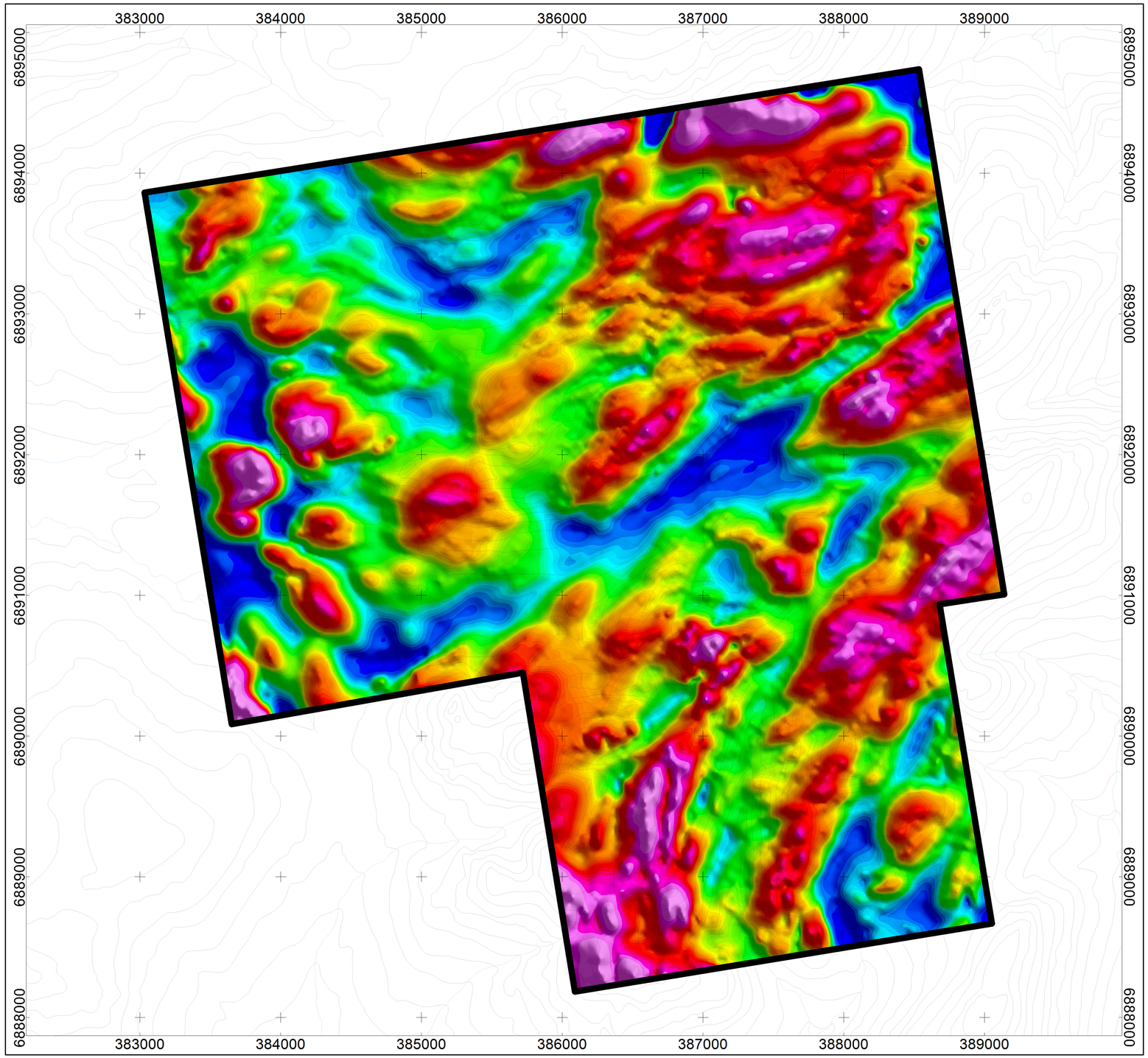
Magnetic Map

Total Magnetic Intensity with Actual Flight Lines

Precision GeoSurveys

Job #20138
August 28, 2020

P3_N
TMI_wFL



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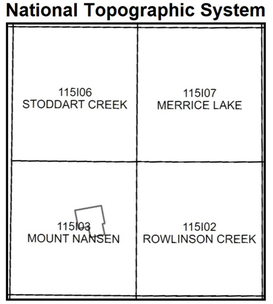
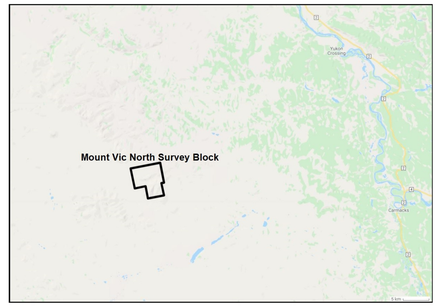
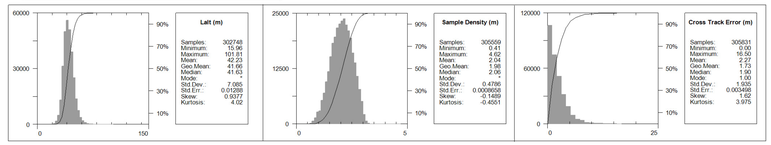
(meters)

WGS 84 / UTM zone 8N

National Topographic System







TMI (nT)
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56934.00
56912.27
56892.58
56874.98
56858.53
56843.01
56828.98
56815.19
56802.41
56790.46
56778.47
56766.49
56755.38
56744.47
56733.64
56723.88
56714.31
56704.87
56695.24
56686.09
56677.49
56668.69
56660.11
56651.04
56640.96
56631.06
56620.76
56609.31
56597.03
56583.04
56567.01
56548.83
56525.39
56490.46

MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....

Elevation Contours, 100 ft Interval.....

Mount Vic North Survey Block Boundary.....

DATA REFERENCE

Magnetic data have been compensated and corrected for temporal variations, lag, and heading; then leveled to generate the Total Magnetic Intensity (TMI) grid. Refer to report for details. TMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_mcan/vector/ntdb_bndt/>[2007]

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Mount Vic North Survey Block

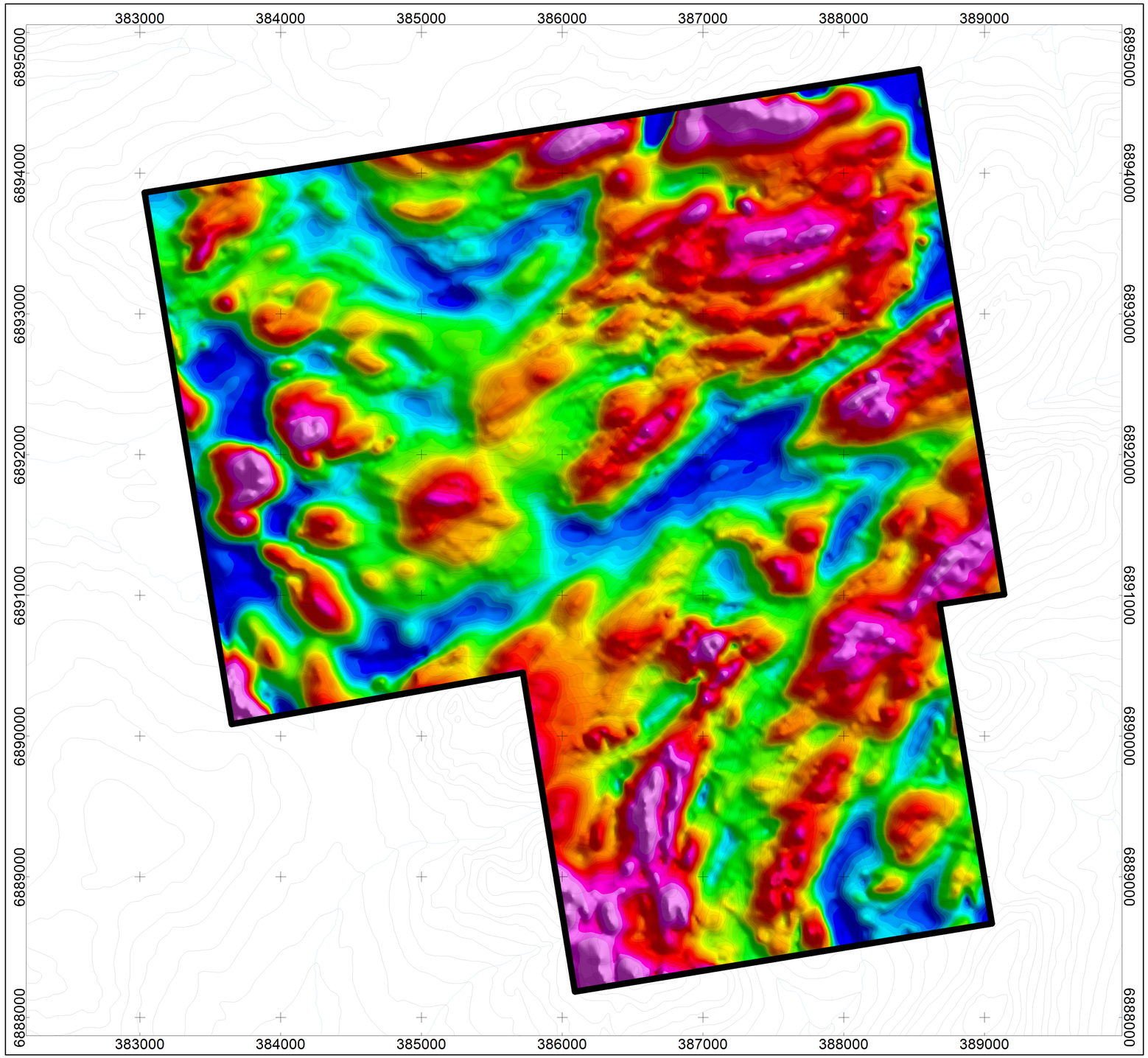
Magnetic Map

Total Magnetic Intensity

Precision GeoSurveys

Job #20138
August 28, 2020

P4_N
TMI



Scale 1:15000

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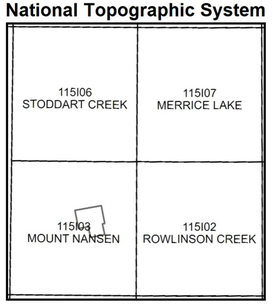
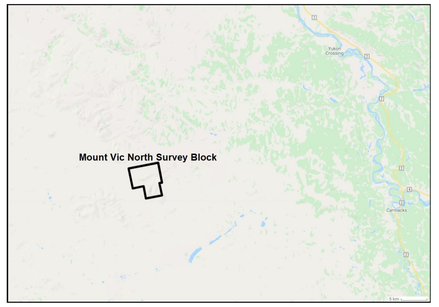
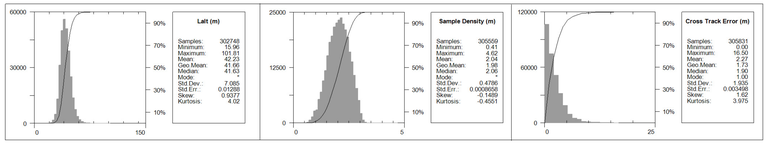
(meters)

WGS 84 / UTM zone 8N

National Topographic System







590.59
507.77
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436.44
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390.25
370.30
352.18
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320.60
306.07
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279.69
267.65
255.53
243.48
232.36
221.17
210.47
200.73
191.10
181.64
171.68
162.61
153.81
144.99
136.42
126.88
116.69
106.51
95.96
84.45
71.89
57.66
41.52
23.02
-0.45
-35.84

RMI (nT)

MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....

Elevation Contours, 100 ft Interval.....

Mount Vic North Survey Block Boundary.....

DATA REFERENCE

Residual Magnetic Intensity (RMI) is computed by taking the difference between Total Magnetic Intensity (TMI) and IGRF. Refer to report for details. RMI is represented as a grid and drawn with a histogram-equalized color shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

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Mount Vic North Survey Block

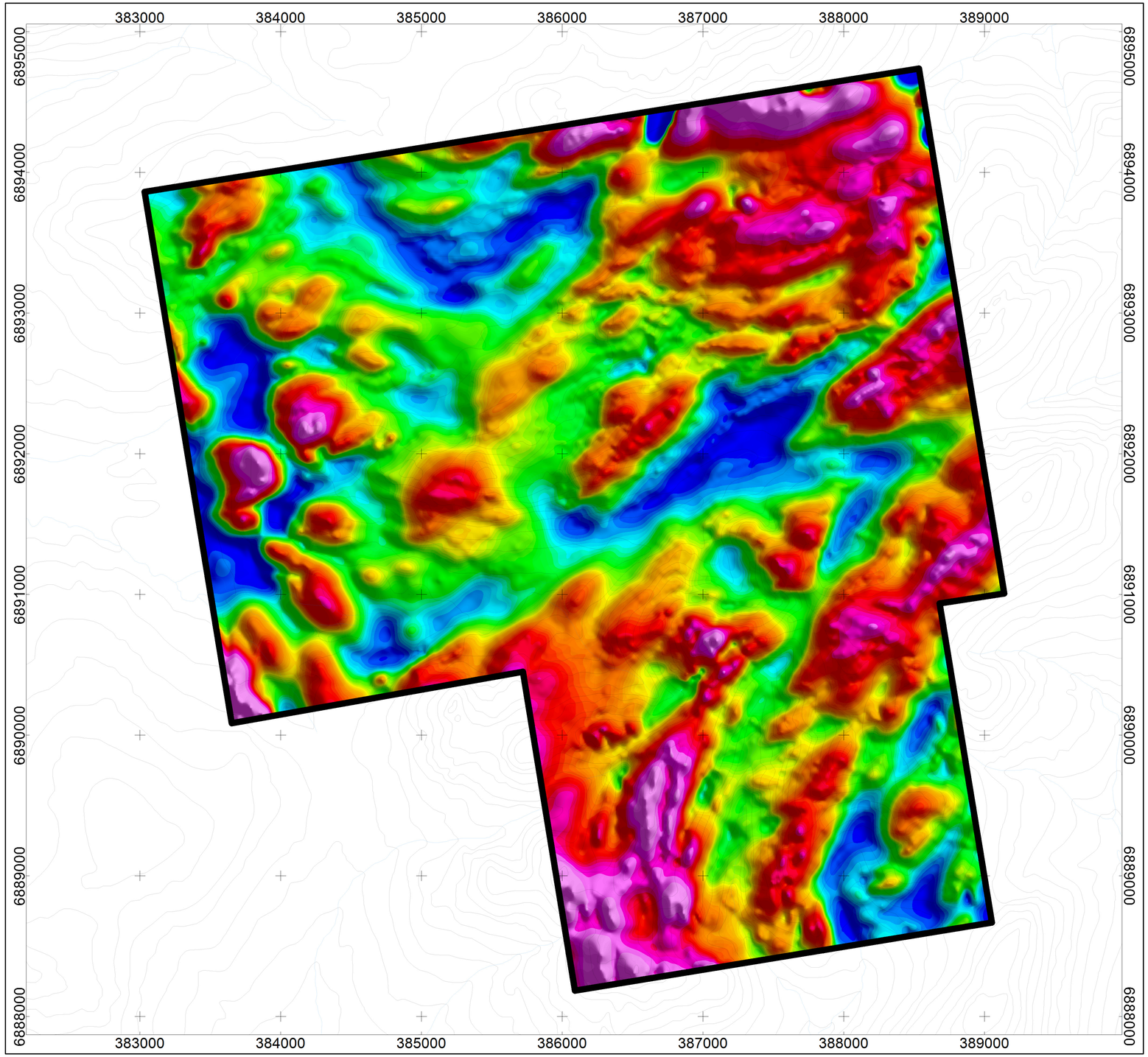
Magnetic Map

Residual Magnetic Intensity

Precision GeoSurveys

Job #20138
August 28, 2020

P5_N
RMI

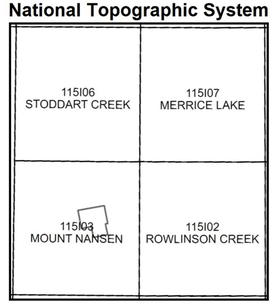


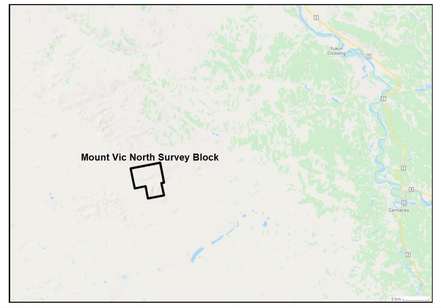
Scale 1:15000

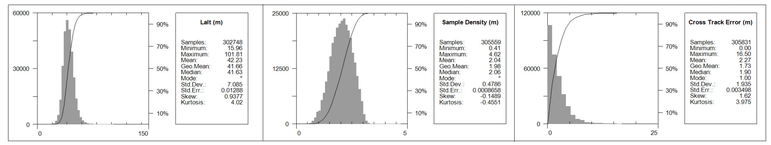
250 0 250 500 750 1000
(meters)

WGS 84 / UTM zone 8N

National Topographic System







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451.06
424.15
401.25
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298.63
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267.52
253.01
239.41
226.22
213.97
202.69
192.07
181.21
171.30
161.40
150.86
140.36
130.50
121.31
112.19
102.58
92.41
81.33
69.25
56.18
42.20
27.35
10.95
-9.64
-31.90
-61.54

RTP (nT)

MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....
Elevation Contours, 100 ft Interval.....
Mount Vic North Survey Block Boundary.....

DATA REFERENCE

Reduced to Magnetic Pole (RTP) is computed from Residual Magnetic Intensity (RMI). Refer to report for details. RTP is represented as a grid and drawn with a histogram-equalized colour shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

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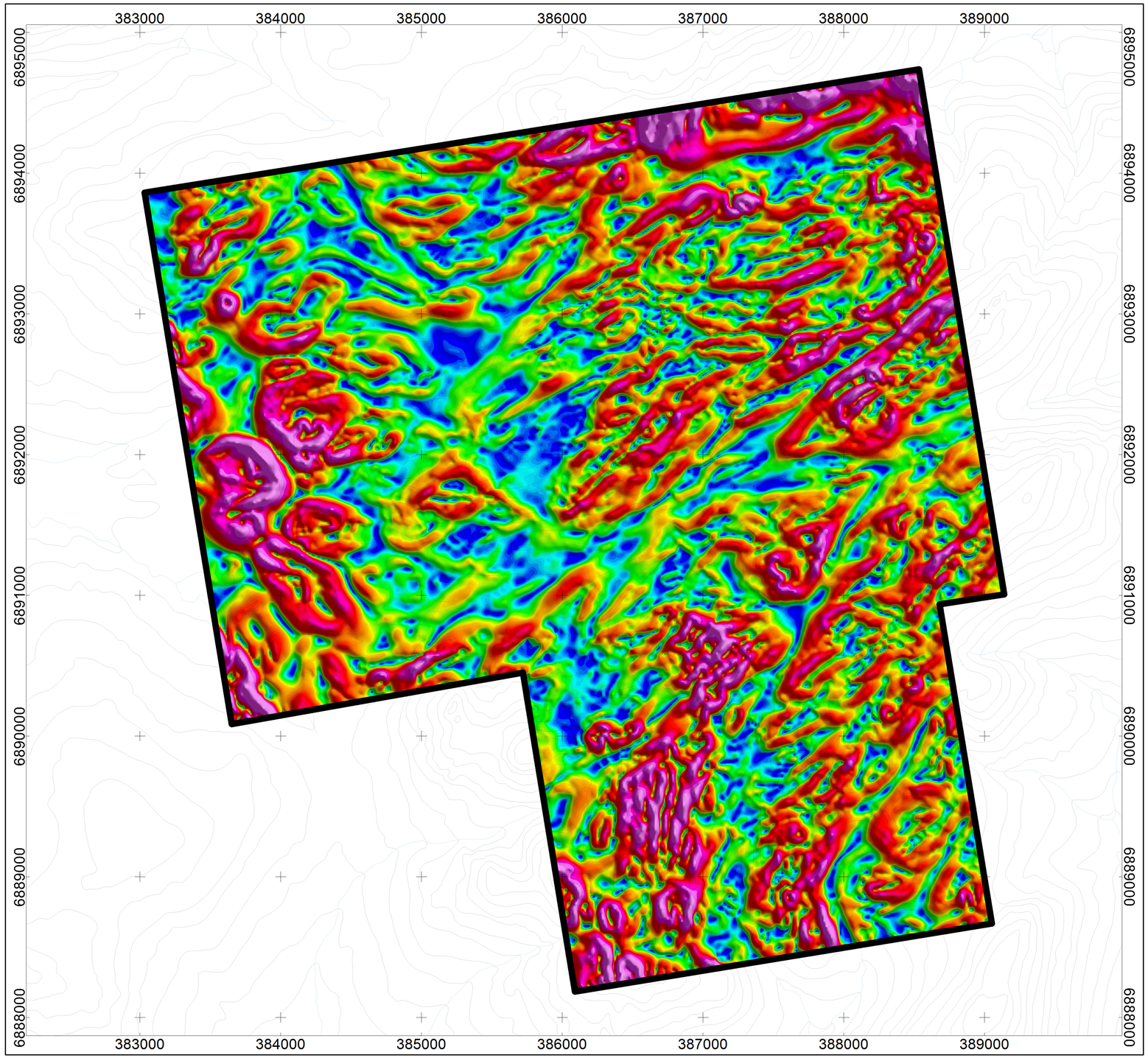
Mount Vic North Survey Block

Magnetic Map
Reduced to Magnetic Pole

Precision GeoSurveys

Job #20138
August 28, 2020

P6_N
RTP

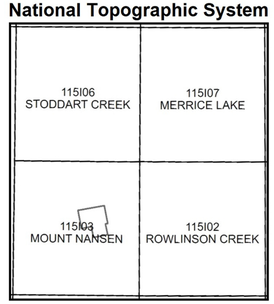


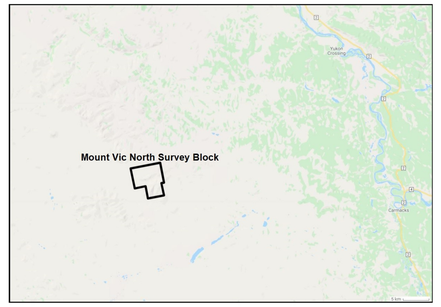
Scale 1:15000

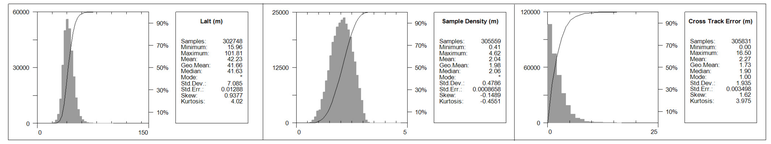
250 0 250 500 750 1000
(meters)

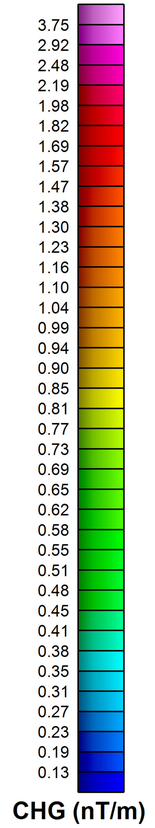
WGS 84 / UTM zone 8N

National Topographic System









MAP PROJECTION

Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

Survey Dates:	August 7 to August 10, 2020
Survey Base:	Carmacks, YT
Aircraft Type:	Airbus AS350 helicopter
Registration:	C-GSVY
Survey Technology:	Magnetic and Radiometric Survey
Mean Flight Height	42.2 meters
Survey Line Spacing:	50 meters
Survey Line Direction:	170°/350°
Tie Line Spacing:	500 meters
Tie Line Direction:	080°/260°

AIRBORNE SURVEY SYSTEM

Magnetometer Sensor:	Scintrex CS-3 Cesium
Configuration:	Stinger with 3 axis compensation
Sample Rate:	20 Hz
Sensitivity:	0.0006 nT √Hz rms
Gamma Ray Spectrometer:	Pico Envirotec AGRS
Downward-Looking Crystals:	16.8 litres of NaI(Tl)
Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....
Elevation Contours, 100 ft Interval.....
Mount Vic North Survey Block Boundary.....

DATA REFERENCE

Calculated Horizontal Gradient (CHG) is the magnitude of the horizontal gradient of Residual Magnetic Intensity (RMI). Refer to report for details. CHG is represented as a grid and drawn with a histogram-equalized colour shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE

National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Hill 79 Resources Corp.

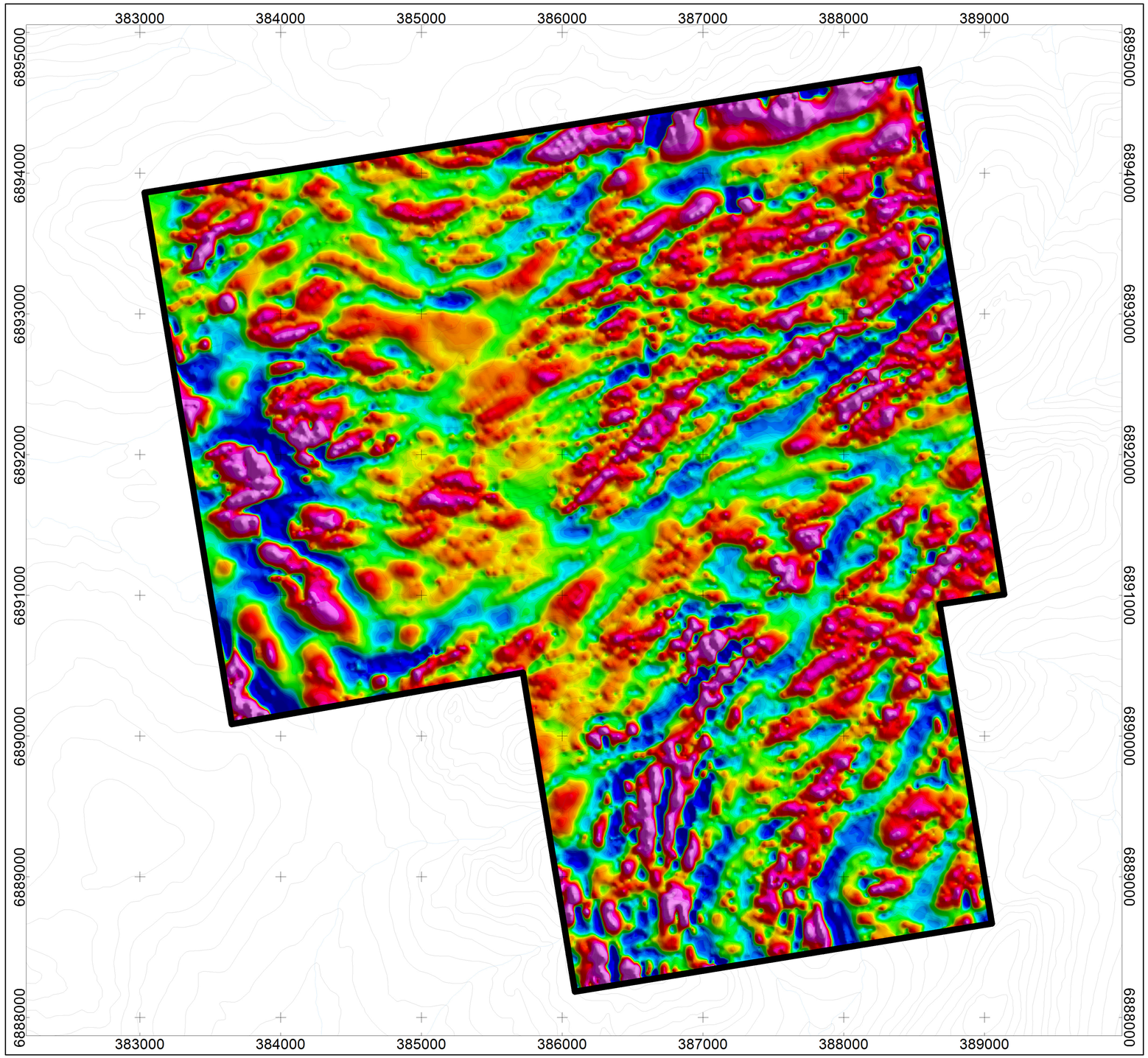
Mount Vic North Survey Block

Magnetic Map
Calculated Horizontal Gradient

Precision GeoSurveys

Job #20138
August 30, 2020

P7_N
CHG

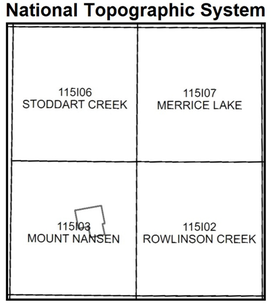


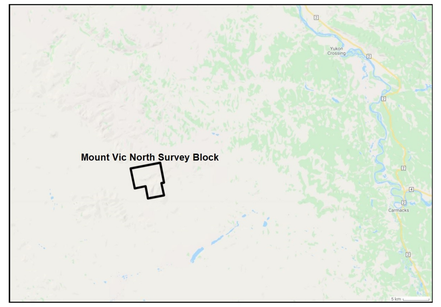
Scale 1:15000

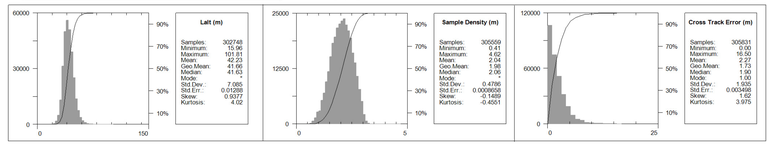
250 0 250 500 750 1000
(meters)

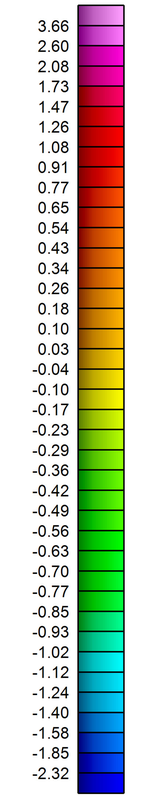
WGS 84 / UTM zone 8N

National Topographic System









MAP PROJECTION
Projection: Universal Transverse Mercator Zone 8N
Datum: WGS 84
Local Datum Transform: World

MOUNT VIC NORTH SURVEY SPECIFICATIONS

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Upward-Looking Crystal:	4.2 litres of NaI(Tl)
Sample Rate:	1 Hz (Resampled to 20 Hz)

Legend

Water Bodies.....
Elevation Contours, 100 ft Interval.....
Mount Vic North Survey Block Boundary.....

DATA REFERENCE
Calculated Vertical Gradient (CVG) is the first vertical derivative of Residual Magnetic Intensity (RMI). Refer to report for details. CVG is represented as a grid and drawn with a histogram-equalized colour shade; sun illumination inclination at 45° and declination at 045°.

TOPOGRAPHIC REFERENCE
National Topographic Data Base (NTDB), Canada. Ottawa, ON: Government of Canada, Natural Resources Canada, Center for Topographic Information.
URL <http://ftp.geogratis.gc.ca/pub/nrcan_rncan/vector/ntdb_bndt/>[2007]

Hill 79 Resources Corp.

Mount Vic North Survey Block

Magnetic Map
Calculated Vertical Gradient

Precision GeoSurveys

Job #20138
August 31, 2020

P8_N
CVG