



**Ultra low level and
regional survey
specialists.**



Airborne Geophysical Survey

Logistics Report

Barkly Project

Survey carried out on behalf of

Knox Resources Limited

(Reference Number: 1205)

22 December 2020

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1. SURVEY EQUIPMENT

1.1 Aircraft

The aircraft used was a Cessna 210, specially modified for geophysical survey with a tail boom and various other survey configuration modifications.

Registration - VH-HHJ



Survey Aircraft

1.2 Data Acquisition System

High speed digital data acquisition system.

- Sample rates up to 20 Hz
- Integrated Novatel OEM DGPS receiver providing positional information, to tag incoming data streams in addition to providing pilot navigation guidance
- High precision caesium vapour magnetometer
- Visual real time on-screen system monitoring / error messages to limit re-fights due to equipment failure

1.3 Magnetometers

Tail sensor mounted in a stinger housing.

- Model / Type - G-823A caesium vapour magnetometer
- Resolution - 0.001 nT resolution
- Sensitivity - 0.01 nT sensitivity
- Sample Rate - 20 Hz (approximately 3.5 m)
- Compensation - 3-axis fluxgate magnetometer

1.4 Gamma-Ray Spectrometer

RSI RS-500 gamma-ray spectrometer incorporating 2x RSX-4 detector packs.

- Total Crystal Volume - 32 L
- Channels - 1024
- Sample Rate - 2 Hz (approximately 35 m)
- Stabilisation - Multi-peak automatic gain

1.5 Altimeters

Bendix/King KRA 405 radar altimeter.

- Resolution - 0.3 m
- Sample Rate - 20 Hz
- Range - 0-760 m

Renishaw ILM-500R laser altimeter.

- Resolution - 0.01 m
- Sample Rate - up to 20 Hz
- Range - 0-500 m

Barometric pressure sensor.

- Accuracy - RSS $\pm 0.25\%$ FS (at constant temp)
- Range - 600-1100 hPa

1.6 Magnetic Base Stations

GEM GSM-19 Overhauser & Scintrex Envi-Mag proton precession base station magnetometers.

- Resolution - 0.01 / 0.1 nT
- Accuracy - 0.1 / 0.5 nT
- Sample Rate - 1.0 / 0.5 Hz

The GEM GSM-19 sampling at 1 second was used for all corrections.

2. NAVIGATION AND FLIGHT PATH RECOVERY

Integrated Novatel OEM719 DGPS receiver:

- L1/L2 + GLONASS Multi Frequency
- 555-channel

Navigation information supplied to the pilot via an LCD steering indicator. All data were synchronised to a one pulse per second triggered by the GPS time.

3. CALIBRATIONS AND CHECKS

3.1 Magnetometers

A compensation box was flown prior to survey. The compensation consisted of a series of pitch, roll and yaw manoeuvres in reciprocal survey headings at high altitude. The measured output from the 3-axis fluxgate magnetometer was recorded and used to resolve a compensation solution. This solution was applied when post-compensating all survey magnetometer data to remove manoeuvre effects and heading error.

3.2 GPS

GPS accuracy tests were performed by accumulating GPS readings for approximately 5 minutes whilst the aircraft was static. All readings (X, Y, Z) were within 2 meters.

3.3 Altimeters

Prior to commencement of survey production, the radar altimeter was checked for linearity by way of a swoop test over flat terrain.

4. QUALITY CONTROL

4.1 During Flight

During survey, the pilot monitored system health from prompts on the navigation screen.

The diurnal base stations were monitored by ground crew.

4.2 Post Flight

Upon completion of each flight all survey data were transferred from the acquisition system to the infield data processing computer. Using customised techniques, the data were checked for any errors and compliance with specifications.

All profiles were visually checked. The flight path was plotted with colour-coded indicators of any out of specification height or cross-track. The data were gridded and visually inspected for errors and compared for continuity with previous flights.

The summed 256-channel spectra were plotted and inspected. The test line and pre- and post-flight ground calibration data were tabulated and reviewed.

5. DATA PROCESSING

5.1 Magnetism

The following steps were performed during the magnetism processing:

- Review or application of compensation
- Parallax correction
- Diurnal filtering and subtraction
- IGRF correction using the updated current IGRF model
- Tie line levelling
- Micro levelling

Compensation of the magnetometer data was applied using the recorded XYZ fluxgate data using Geometrics MagComp airborne compensation software. A suitable compensation flight

(comp box) was processed to obtain the optimum compensation solution which was then applied to all survey data.

The base station magnetometer data were reviewed, de-spiked if necessary and filtered with an 11-point non-linear filter. These data were then subtracted from the measured aircraft data using time that was synchronised to both the acquisition system and the base mag unit.

The IGRF correction was applied using the updated IGRF 2015 model adjusted for height of the aircraft. This correction was calculated and applied at each point.

Tie line levelling was applied by way of a least squares minimisation procedure using a polynomial fit of order 0 over the cross over errors calculated between the traverse and tie line intersections. A fit to ties process was selectively applied and constrained by several parameters such as cross over height differences and maximum and minimum allowable corrections.

Using MAGSPEC Airborne Surveys' proprietary micro levelling techniques, some selective micro levelling was carefully applied and the resulting channel was then considered final.

At all stages of processing the data were stringently checked against and compared to the previous processing stage to ensure the integrity of the data was protected and no detail was removed or altered.

5.2 Radiometrics

Radiometric processing consisted of the following steps:

- 256-channel spectral noise reduction using the NASVD method
- Dead time, cosmic and background radiation corrections
- Energy recalibration
- Channel interaction correction (stripping) and extraction of ROIs
- Height corrections using STP altitude to the nominal survey height
- Radon removal using the Spectral Ratio method
- Levelling where required

Gamma-ray Spectrometric Data Processing

The raw spectra were first smoothed using the Noise Adjusted Singular Value Decomposition (NASVD) method, (Hovgaard and Grasty, 1997).

For the NASVD process twenty (20) principal components were generated. These components were visually inspected and the final number of components for reconstructing the spectra were determined. Eight (8) components were used to reconstruct the spectra.

For all spectrometers, spectral drift was checked, by monitoring the potassium and thorium channel positions from average spectra along flight lines. The procedure for determining peak positions was the same as used during calibration. If the thorium peak is found to move more than 1 channel or the potassium peak by more than 0.5 channel, energy calibration is performed to determine the count rates in the standard windows.

Both the aircraft 256-channel background spectra and the scaled 256-channel cosmic spectra were subtracted from the 256-channel data.

Deadtime corrections were applied to each spectrum channel or window.

Radon background removal was performed using the Minty Spectral Ratio method (1992).

In areas of significant topographic variation, the altimeter data were first lightly filtered to smooth sudden jumps that can arise when flying over steep terrain (which cause problems when height-correcting the data). These data were then converted to effective height (h_e) at standard temperature and pressure (STP).

The background-corrected count rates in the 3 windows were stripped to give the counts in the potassium, uranium and thorium windows that originate solely from the potassium, uranium and thorium decay series. The window stripping ratios α , β , γ , a and g were estimated from measurements over calibration pads, where:

α - is the thorium into uranium stripping ratio, (equal to the ratio of counts detected in the uranium window to those detected in the thorium window from a pure thorium source);

β - is the thorium into potassium stripping ratio for a pure thorium source;

γ - is the uranium into potassium stripping ratio for a pure uranium source;

a - is the reversed stripping ratio, uranium into thorium, (equal to the ratio of counts detected in the thorium window to those detected in the uranium window from a pure source of uranium);

g - is the reverse stripping ratio, potassium into uranium for a pure potassium source.

The 3 principal stripping ratios (α , β and γ) increase with altitude above the ground as shown in the Table 1.1.

Table 1.1. Stripping ratio increase with Aircraft altitude at STP.

Stripping Ratio	Increase per metre
α	0.00049
β	0.00065
γ	0.00069

Each of the 3 main stripping ratios were adjusted for altitude before stripping was carried out. If 5 stripping ratios are used, then the stripped count rates in the potassium, uranium and thorium channels (N_K , N_U , N_{Th}) are given by:

$$N_K = \frac{[n_{Th}(\alpha\gamma - \beta) + n_U(a\beta - \gamma) + n_K(1 - a\alpha)]}{A}, \quad (A5)$$

$$N_U = \frac{[n_{Th}(g\beta - \alpha) + n_U - n_K g]}{A}, \quad (A6)$$

$$N_{Th} = \frac{[n_{Th}(1 - g\gamma) - n_U a + n_K a g]}{A}, \quad (A7)$$

where

$$A = 1 - g\gamma - a(\alpha - g\beta). \quad (A8)$$

The background-corrected and stripped count rates were corrected for variations in the altitude of the detector using the equation:

$$N_{corr} = N_{obs} e^{-\mu(h_0 - h)}, \quad (A9)$$

where: -

N_{corr}	=	the count rate normalized to the nominal Survey altitude, h_0 ;
N_{obs}	=	the background corrected, stripped count rate at STP height h ;
μ	=	the attenuation coefficient for that window.

Where the STP height above ground level exceeds 300 m, a value of $h = 300$ is used in equation A9.

The resulting potassium, uranium, thorium and total count (cps) were converted to concentrations using the coefficients derived from the Carnamah radiometric test line. Refer to Appendix 2 – Calibrations.

Where required, tie line levelling was applied to the Total Count and Uranium channels to remove any effects caused by residual radon background. A least-squares/median filter procedure applied over the calculated cross over errors at each intersection of the flight and tie lines generated a correction value. A new tie-line levelled channel is then output by application of this correction value to the original channel.

Where required, using MAGSPEC Airborne Surveys' proprietary micro levelling techniques, some selective micro levelling is carefully applied and the resulting channel is then considered final.

At all stages of processing the data were stringently checked against and compared to the previous processing stage to ensure the integrity of the data was protected and no detail was removed or altered.

5.3 Digital Elevation Model

DEM processing consisted of the following steps:

- Inspection of height channels
- Parallax correction of radar altimeter
- Subtraction of radar altimeter from GPS height
- Tie line and micro levelling

The GPS, radar and laser heights were visually inspected for errors and any spikes were carefully corrected.

The altimeter data were then subtracted from the GPS height to create the Digital Elevation channels (laser and/or radar).

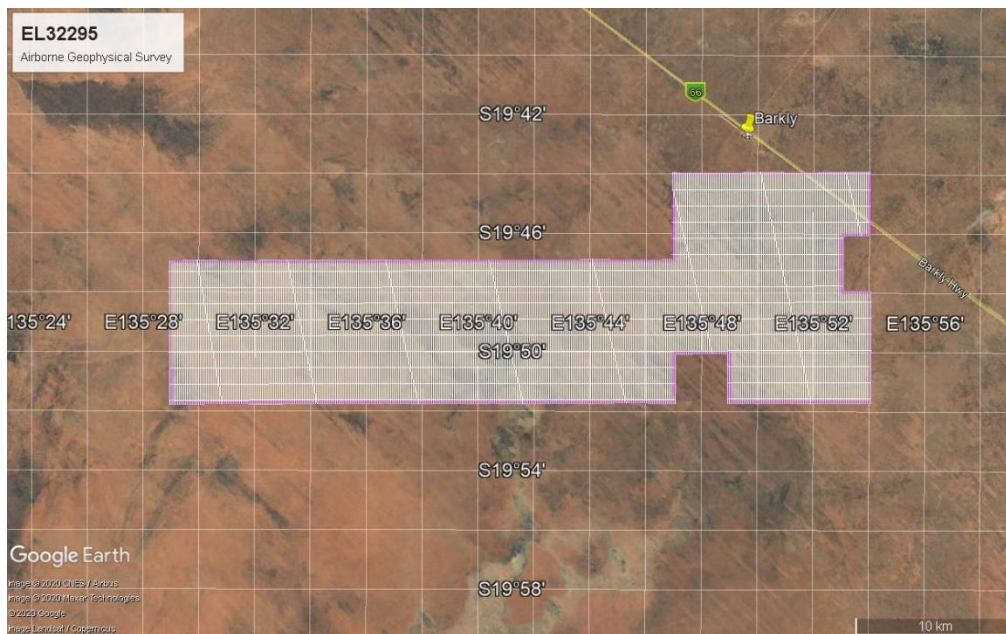
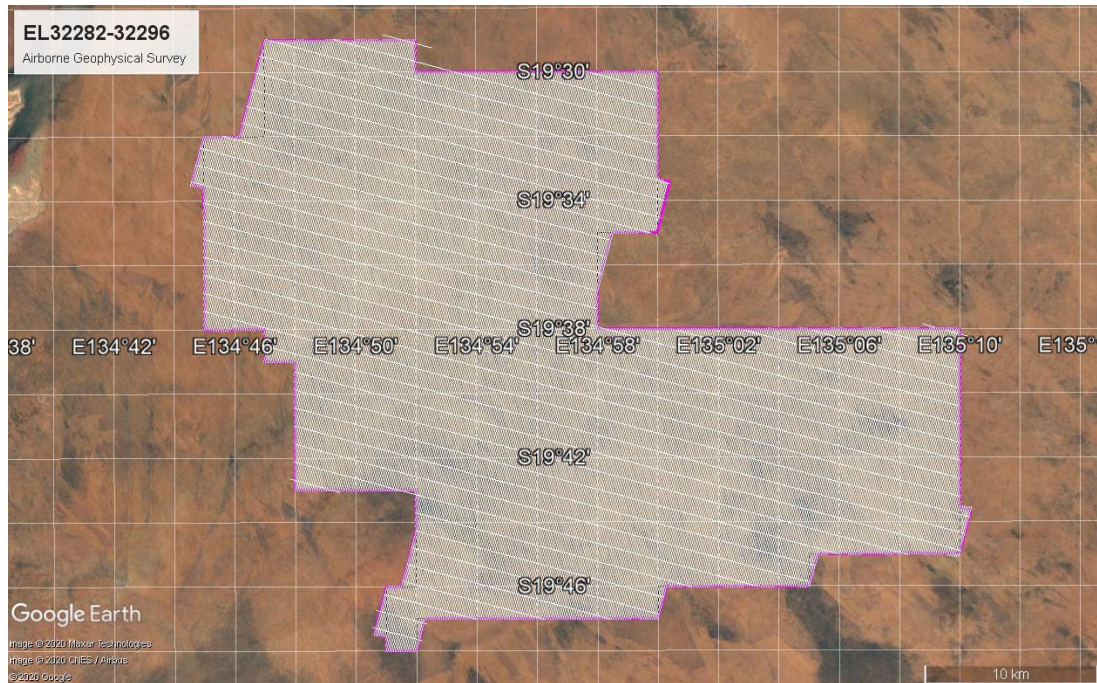
Tie line levelling was applied by way of a least squares minimisation procedure using a polynomial fit of order 0 over the cross over errors calculated between the traverse and tie line intersections.

Using MAGSPEC Airborne Surveys' proprietary micro levelling techniques, some selective micro levelling was carefully applied and the resulting channel was then considered final.

At all stages of processing the data were stringently checked against and compared to the previous processing stage to ensure the integrity of the data was protected and no detail was removed or altered.

APPENDIX 1 - SURVEY AREA

Survey Area Diagram



Survey Area Coordinates and Flight Specifications

Barkly Project

WGS84

SUTM Zone 53

EL32282-32296		EL32282-32296 (cont.)		EL32295	
EASTING	NORTHING	EASTING	NORTHING	EASTING	NORTHING
477262	7845677	486526	7812489	550600	7812450
486008	7845686	486035	7810645	582050	7812450
486009	7843842	484289	7810643	582050	7817850
500000	7843847	484289	7811452	594300	7817850
500000	7837722	483582	7811634	594300	7814050
500721	7837536	484286	7814332	592550	7814050
499990	7834626	485156	7814333	592550	7810450
497357	7834626	486024	7817613	594300	7810450
496505	7831386	486018	7819866	594300	7803650
496505	7829093	479042	7819864	585500	7803650
517474	7829085	479033	7827237	585500	7806750
517464	7818821	477286	7827234	582050	7806750
518124	7818645	477283	7829079	582050	7803700
517462	7816175	473789	7829074	550600	7803700
509217	7816181	473777	7837228		
508730	7814337	473050	7837412		
500492	7814339	473772	7840140		
500000	7812495	475818	7840142		

Area Name	Traverse Line spacing (m)	Traverse Line Direction (deg)	Tie Line Spacing (m)	Tie Line Direction (deg)	Sensor Height (m)	Total Line Kilometres
EL32282-32296	100	015-195	1,000	105-285	30	10,349
EL32295	100	000-180	1,000	090-270	30	4,912
Total						15,261

APPENDIX 2 - FIELD OPERATION AND PROJECT MANAGEMENT

Operational Base

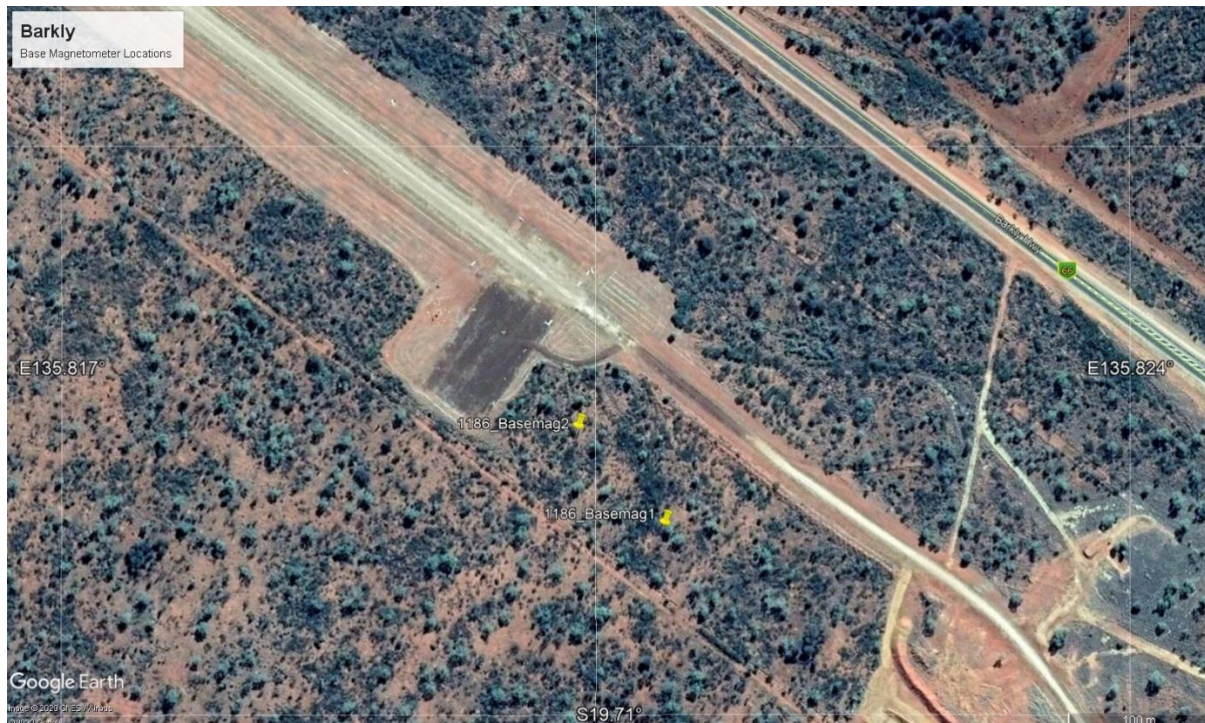
The aircraft and crew were based in Barkly, Northern Territory for the duration of the survey. Production of the survey started on 2nd December 2020 and ended on 17th December 2020.

Personnel

Client Contacts	-	Neil Biddle
	-	Alan Boys
	-	David Stannard
Pilots	-	Daniel Wright
	-	Regan Soper
Operations	-	William Bennett
QC/QA	-	Andrew Taylor
Project Management	-	Peter Spencer
Data Processing	-	Cameron Johnston

Base Station Magnetometer Positions

The base station magnetometers were located near the Barkly Station Airstrip.



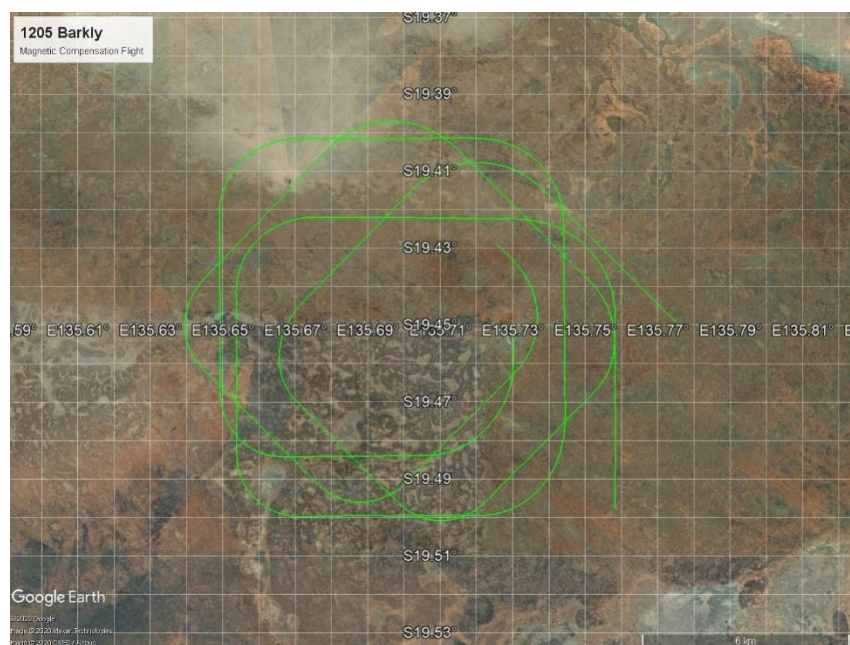
Base station 1 location co-ordinates (WGS84): 19°42'31.8"S; 135°49'16.5"

Base station 2 location co-ordinates (WGS84): 19°42'29.6"S; 135°49'14.4"

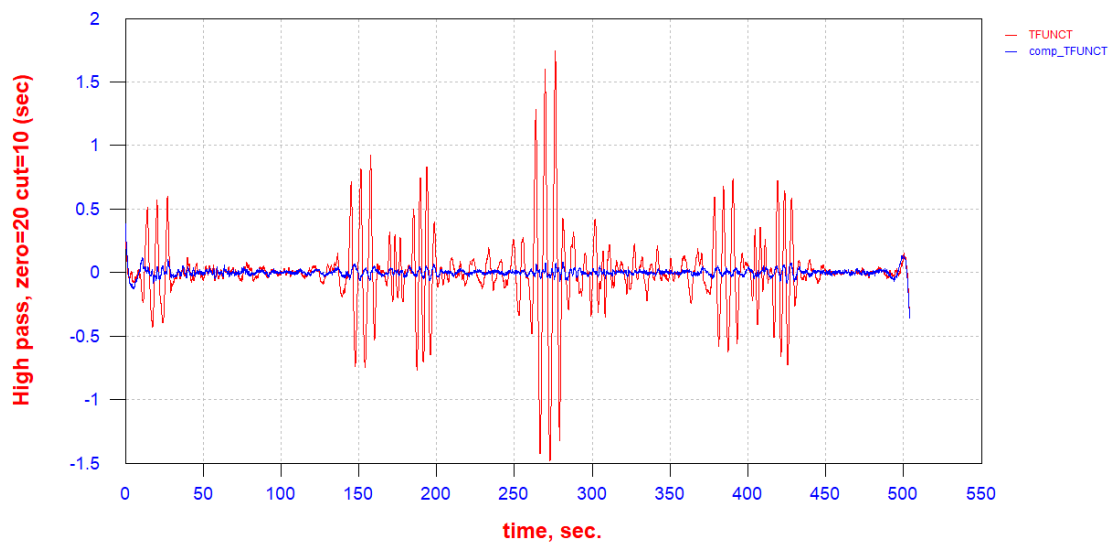
Base station 1 was used for all diurnal corrections.

APPENDIX 3 – CALIBRATIONS

Magnetometer Compensation



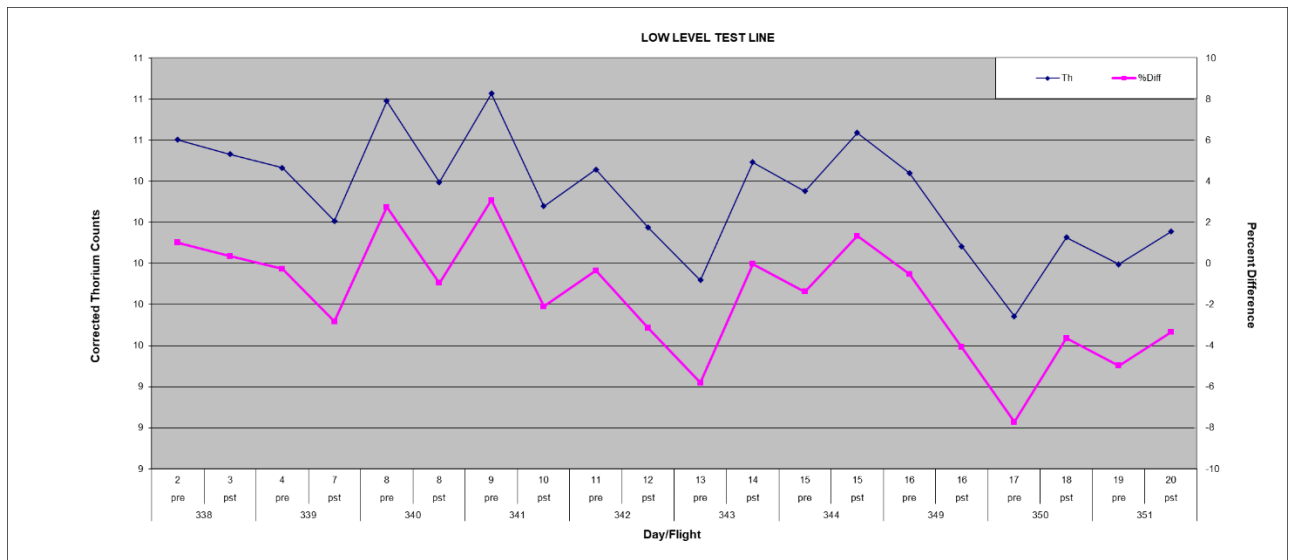
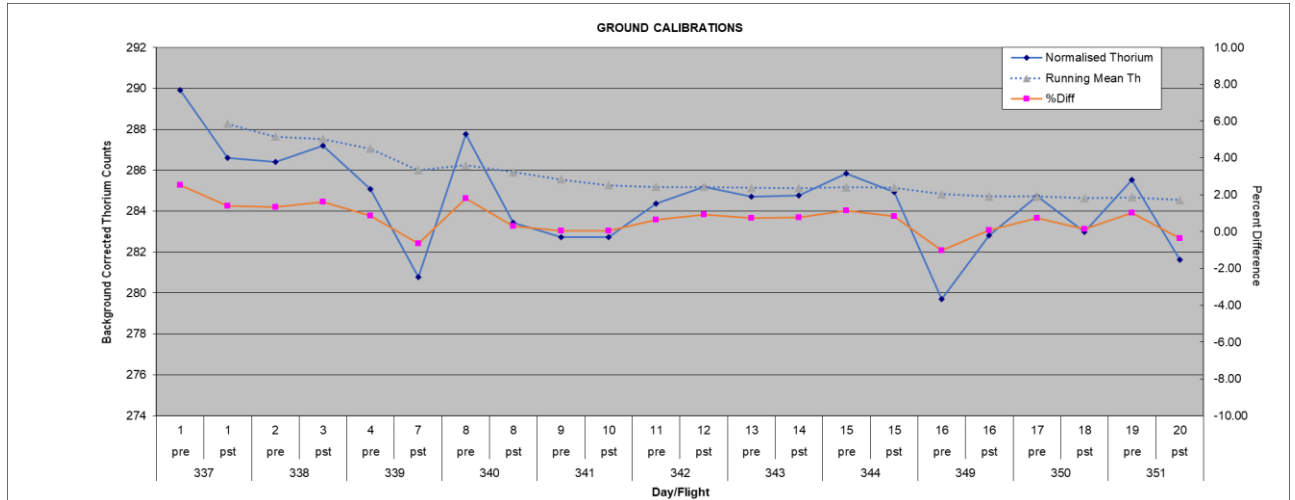
FILE:020052038_filt.XYZ line: 100010



Processed Compensation Box

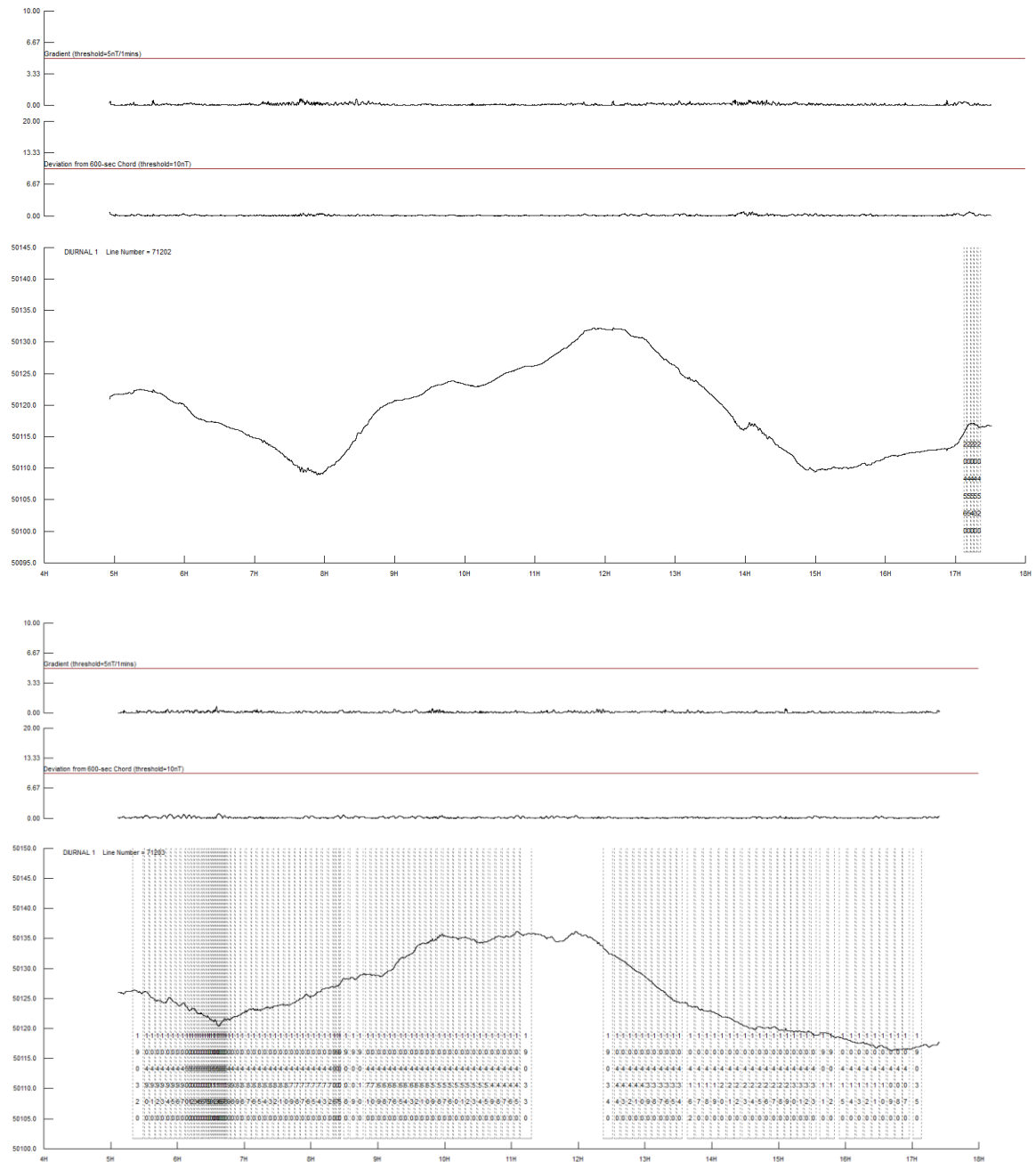
Sensor	Line	Original RMS	Compensated RMS	Improvement Ratio
Tail	100010	0.263	0.021	12.365

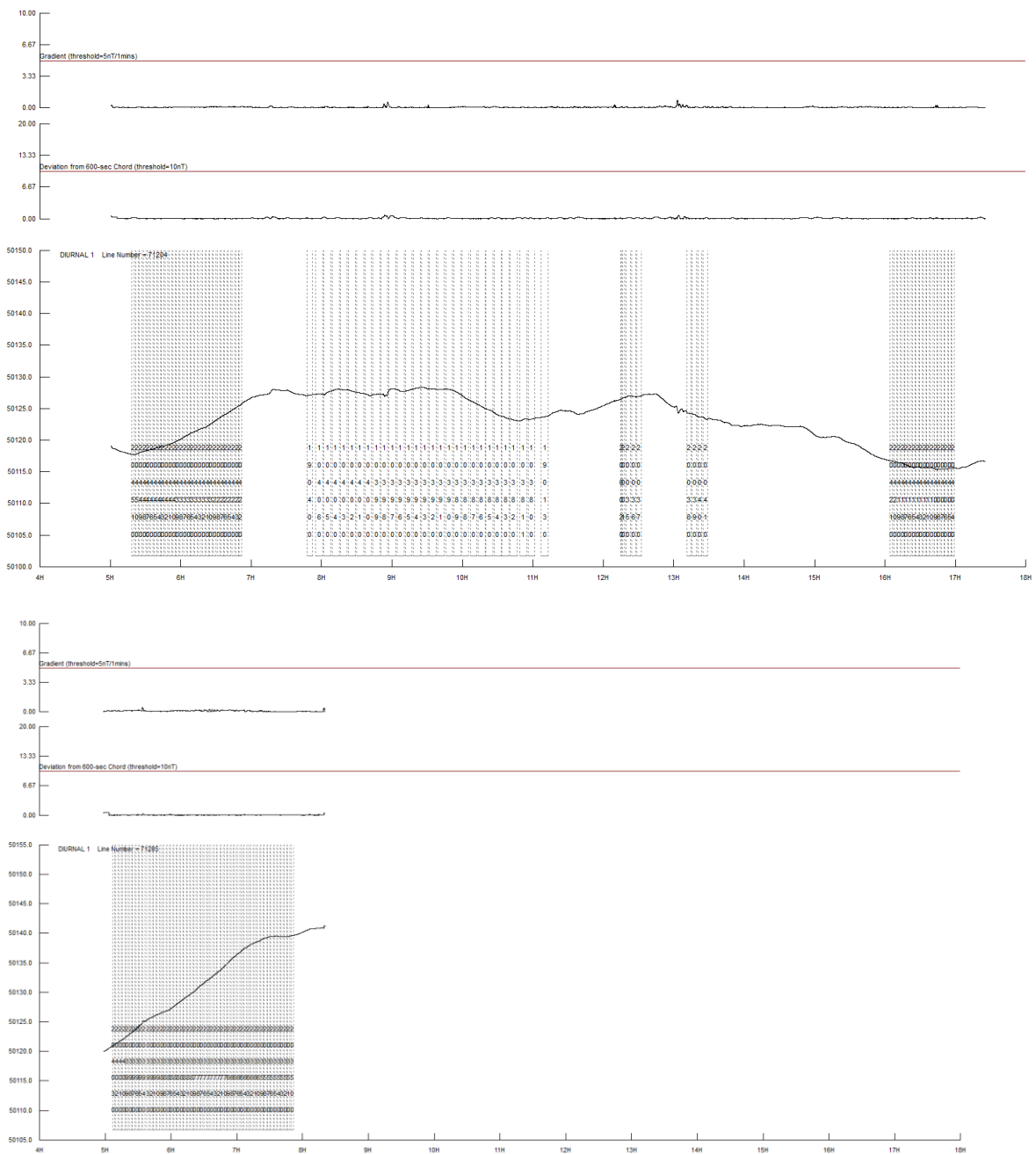
Ground Calibration Checks and Test Lines

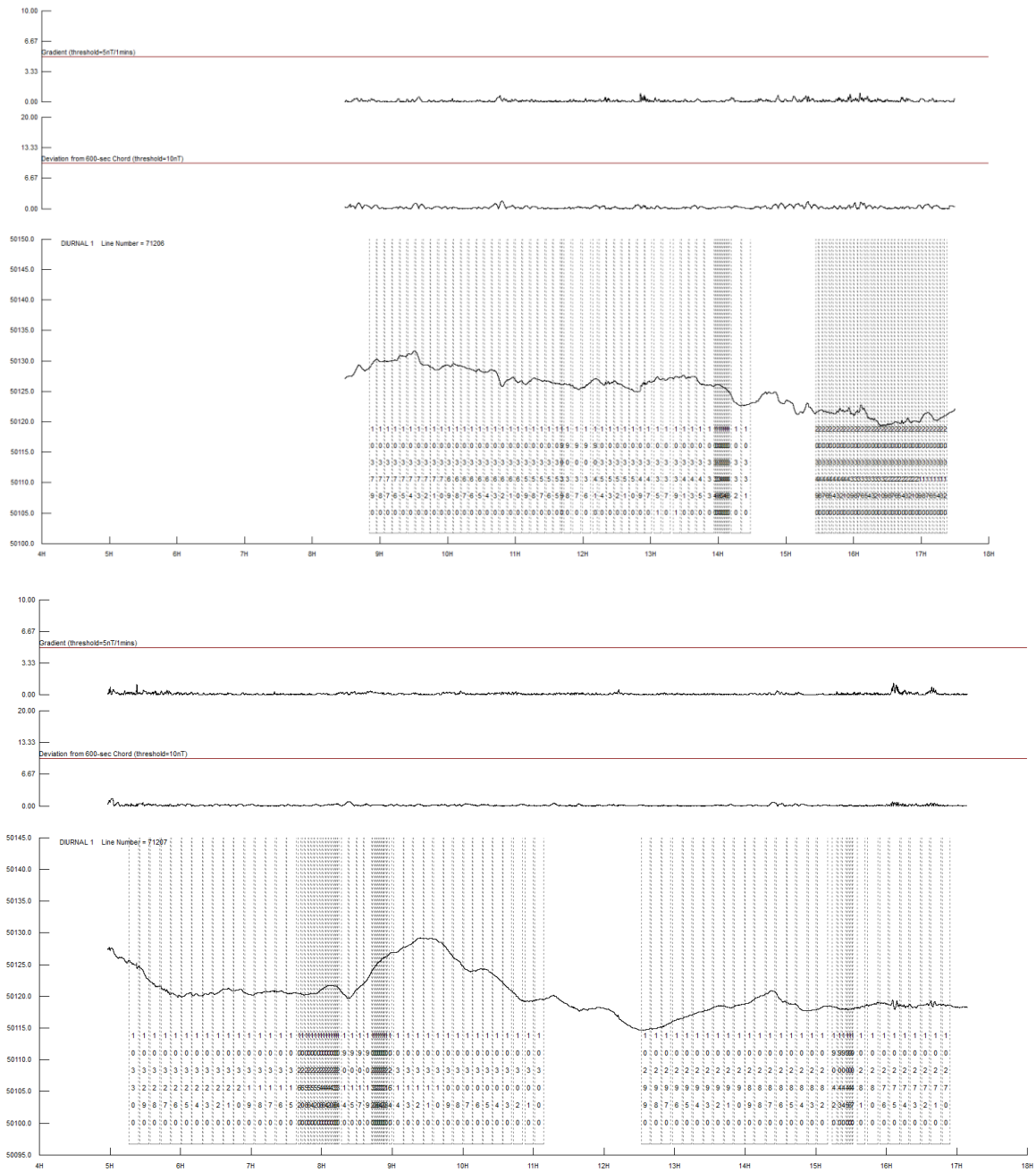


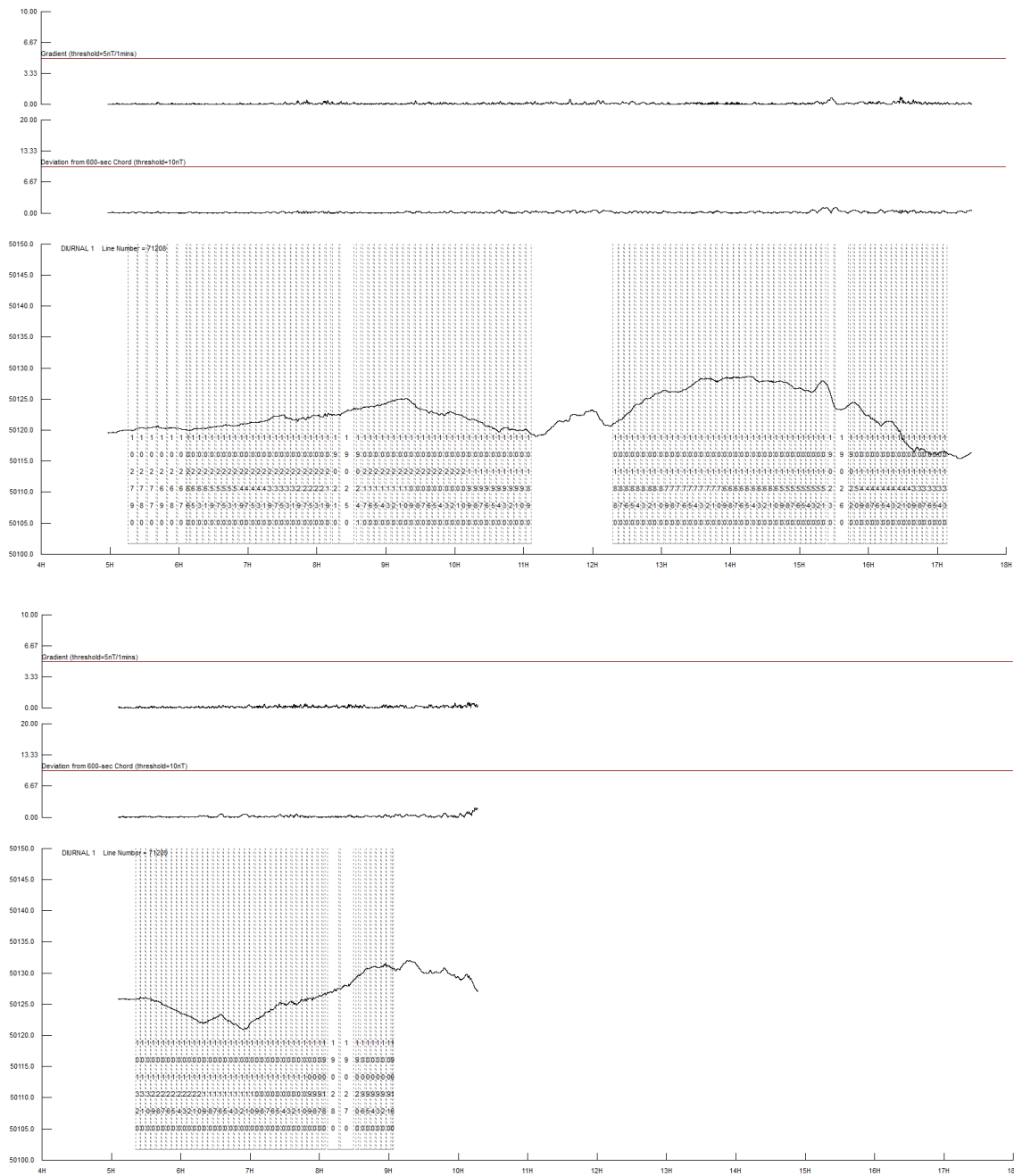
APPENDIX 4 – DIURNAL BASE STATION PLOTS

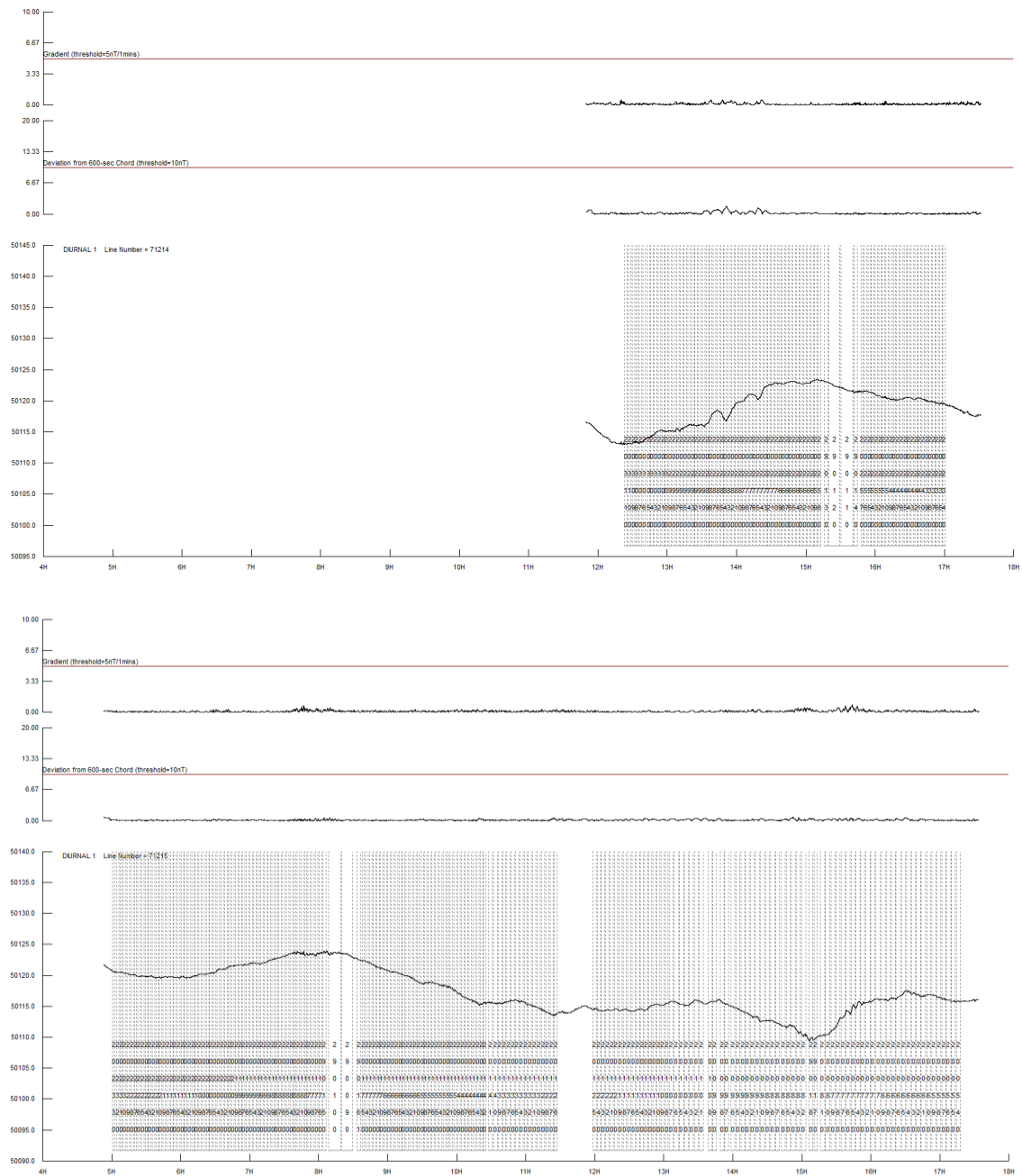
Diurnal 1 Line Number = YYMMDD

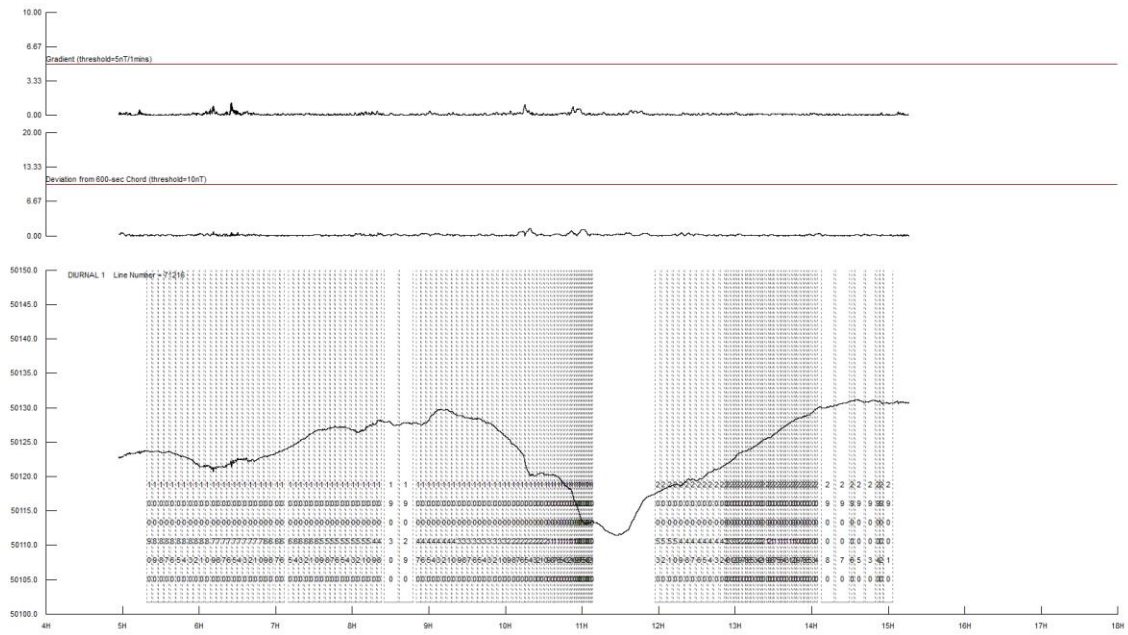












APPENDIX 5 – PROCESSING PARAMETERS AND DELIVERABLES

Magnetics

Average Diurnal 50,110 nT

IGRF Correction Parameters

	EL32282-32296	EL32295
Year:	2020.94	2020.96
Height:	295 m	290
Zone:	53	53
Hemisphere:	Southern	Southern
Latitude:	-19.6442203 °	-19.8120727 °
Longitude:	134.9385527 °	135.7091406 °
Total Field:	50465.56 nT	50510.24 nT
Declination:	4.2669 °	4.4826 °
Inclination:	-50.0612 °	-50.2392 °

Radiometrics

Radiometric Correction Parameters

Radiometric Stripping Coefficients

Alpha:	0.2881
Beta:	0.4539
Gamma:	0.8021
a:	0.0536

	<i>Height Attenuation</i>	<i>Aircraft Background</i>	<i>Cosmic Corrections</i>	<i>Concentration Coefficients</i>
Total Count	-0.0074	35.102	1.0919	37.50
Potassium	-0.0094	7.6972	0.0624	124.46
Uranium	-0.0084	0.000	0.0503	15.04
Thorium	-0.0074	0.000	0.0624	7.22

Located and Gridded Data

ASCII Located data were supplied in ASEG-GDF format and Geosoft GDB. Gridded data were supplied in ERMapper format.

ASCII Located Data File Formats and Channels

MAGNETICS

Line:I8:NULL=9999999:NAME=Line number
 Flight:I4:NULL=999:NAME=Flight number
 Date:I9:NULL=99999999:UNIT=YYYYMMDD:NAME=Date
 Time:F11.2:NULL=9999999.99:UNIT=seconds:NAME=Time
 Fid:I9:NULL=99999999:NAME=Fiducial number
 Zone:I4:NULL=999:NAME=WGS84 Zone
 Latitude:F12.6:NULL=9999.999999:UNIT=degrees:NAME=WGS84 Latitude
 Longitude:F12.6:NULL=9999.999999:UNIT=degrees:NAME=WGS84 Longitude
 Easting:F12.2:NULL=99999999.99:UNIT=metres:NAME=SUTM53 Easting
 Northing:F12.2:NULL=99999999.99:UNIT=metres:NAME=SUTM53 Northing
 Radalt:F8.2:NULL=99999.9:UNIT=metres:NAME=Radar altimeter
 Laseralt:F8.2:NULL=99999.9:UNIT=metres:NAME=Laser altimeter
 Gpsht:F8.2:NULL=99999.9:UNIT=metres:NAME=GPS Height
 DTM:F8.2:NULL=99999.9:UNIT=metres:NAME=Digital terrain model
 Diurnal:F10.3:NULL=999999.999:UNIT=nT:NAME=Diurnal
 IGRF:F9.2:NULL=99999.99:UNIT=nT:NAME=IGRF
 Raw_TMI:F10.3:NULL=99999.999:UNIT=nT:NAME=Raw total magnetic intensity
 Mag_Dnl:F10.3:NULL=99999.999:UNIT=nT:NAME=Diurnal corrected TMI
 Mag_Dnl_IGRF:F10.3:NULL=99999.999:UNIT=nT:NAME=Diurnal and IGRF corrected TMI
 Tlev_TMI:F10.3:NULL=99999.999:UNIT=nT:NAME=Tie Line Levelled Total Magnetic Intensity
 Mlev_Final_TMI:F10.3:NULL=99999.999:UNIT=nT:NAME=Mlev Final Total Magnetic Intensity

RADIOMETRICS

Line:I8:NULL=9999999:NAME=Line number
 Flight:I4:NULL=999:NAME=Flight number
 Date:I9:NULL=99999999:UNIT=YYYYMMDD:NAME=Date
 Time:F11.2:NULL=9999999.99:UNIT=seconds:NAME=Time
 Fid:I10:NULL=9999999:NAME=Fiducial number
 Zone:I4:NULL=999:NAME=WGS84 Zone
 Latitude:F12.6:NULL=9999.999999:UNIT=degrees:NAME=WGS84 Latitude
 Longitude:F12.6:NULL=9999.999999:UNIT=degrees:NAME=WGS84 Longitude
 Easting:F12.2:NULL=99999999.99:UNIT=metres:NAME=SUTM53 Easting
 Northing:F12.2:NULL=99999999.99:UNIT=metres:NAME=SUTM53 Northing
 RAD_ALT:F8.2:NULL=99999.9:UNIT=metres:NAME=Altitude
 GPS_height:F8.2:NULL=99999.9:UNIT=metres:NAME=GPS Height
 Live_Time:I5:NULL=9999:NAME=Live time
 Baro_pres:F8.1:NULL=99999.9:UNIT=hPa:NAME=Baro pressure
 Temp:F6.1:NULL=999.9:UNIT=degrees C:NAME=Temperature
 Humid:F6.1:NULL=999.9:UNIT=percent:NAME=Humidity
 RAW_TOT:I6:NULL=99999:UNIT=CPS:NAME=Raw Total count
 RAW_POT:I6:NULL=99999:UNIT=CPS:NAME=Raw K40
 RAW_URA:I6:NULL=99999:UNIT=CPS:NAME=Raw Bi214
 RAW_THO:I6:NULL=99999:UNIT=CPS:NAME=Raw TI208
 Cosmic:I6:NULL=99999:UNIT=CPS:NAME=Cosmic
 TOTAL_COUNT:F9.2:NULL=99999.99:UNIT=CPS:NAME=Corrected Total Count
 POTASSIUM:F9.2:NULL=99999.99:UNIT=CPS:NAME=Corrected Potassium
 URANIUM:F9.2:NULL=99999.99:UNIT=CPS:NAME=Corrected Uranium
 THORIUM:F9.2:NULL=99999.99:UNIT=CPS:NAME=Corrected Thorium
 DOSE_RATE:F9.4:NULL=999.9999:UNIT=nGy/hr:NAME=Dose Rate
 POTASSIUM_PERCENT:F9.4:NULL=999.9999:UNIT=percent:NAME=Potassium Percent
 URANIUM_PPM:F9.4:NULL=999.9999:UNIT=PPM:NAME=Uranium PPM
 THORIUM_PPM:F9.4:NULL=999.9999:UNIT=PPM:NAME=Thorium PPM
 Raw_spec:256F6.0:NULL=99999:UNIT=cps:NAME=Raw_spec

Data Contents

+---IMAGES

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- | 120501_EL32282-32296_Ternary.tif
- | 120501_EL32282-32296_TMI-1VD.tif
- | 120501_EL32282-32296_TMI-Grey.tif
- | 120501_EL32282-32296_TMI.tif
- | 120501_EL32282-32296_Total_Count.tif
- | 120502_EL32295_DEM.tif
- | 120502_EL32295_Ternary.tif
- | 120502_EL32295_TMI-1VD.tif
- | 120502_EL32295_TMI-Grey.tif
- | 120502_EL32295_TMI.tif
- | 120502_EL32295_Total_Count.tif
- |

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- | | 120502_EL32295_Magnetics_DEM.gdb
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| \---GRIDS

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- | 120501_EL32282-32296_DEM.ers
- | 120501_EL32282-32296_TMI
- | 120501_EL32282-32296_TMI-1VD
- | 120501_EL32282-32296_TMI-1VD.ers
- | 120501_EL32282-32296_TMI.ers
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- | 120502_EL32295_DEM.ers
- | 120502_EL32295_TMI
- | 120502_EL32295_TMI-1VD
- | 120502_EL32295_TMI-1VD.ers
- | 120502_EL32295_TMI.ers
- |

\---SPEC

+---DATA

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- | | 120502_EL32295_Radiometrics.DFN
- | |

| \---GEOSOF

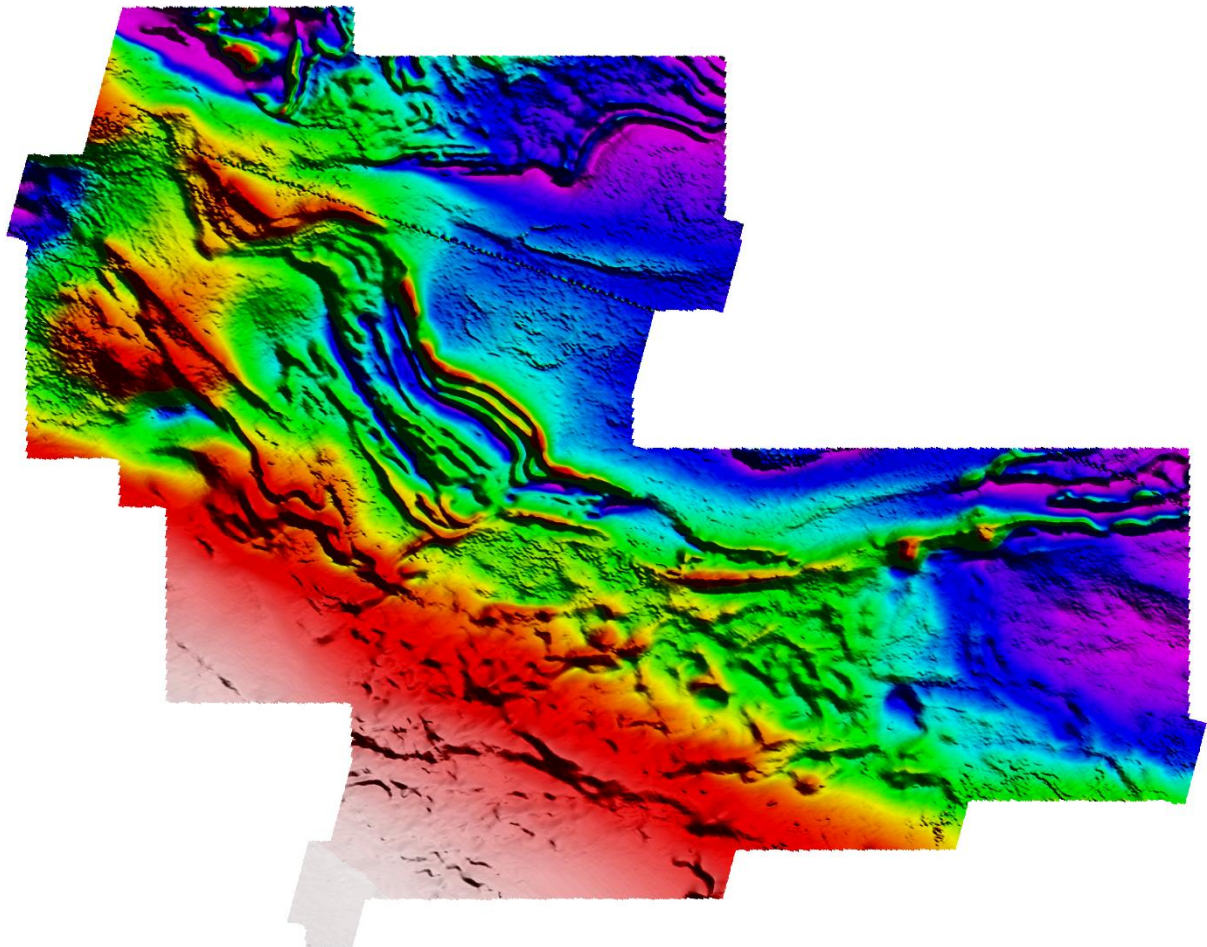
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- | 120502_EL32295_Radiometrics.gdb

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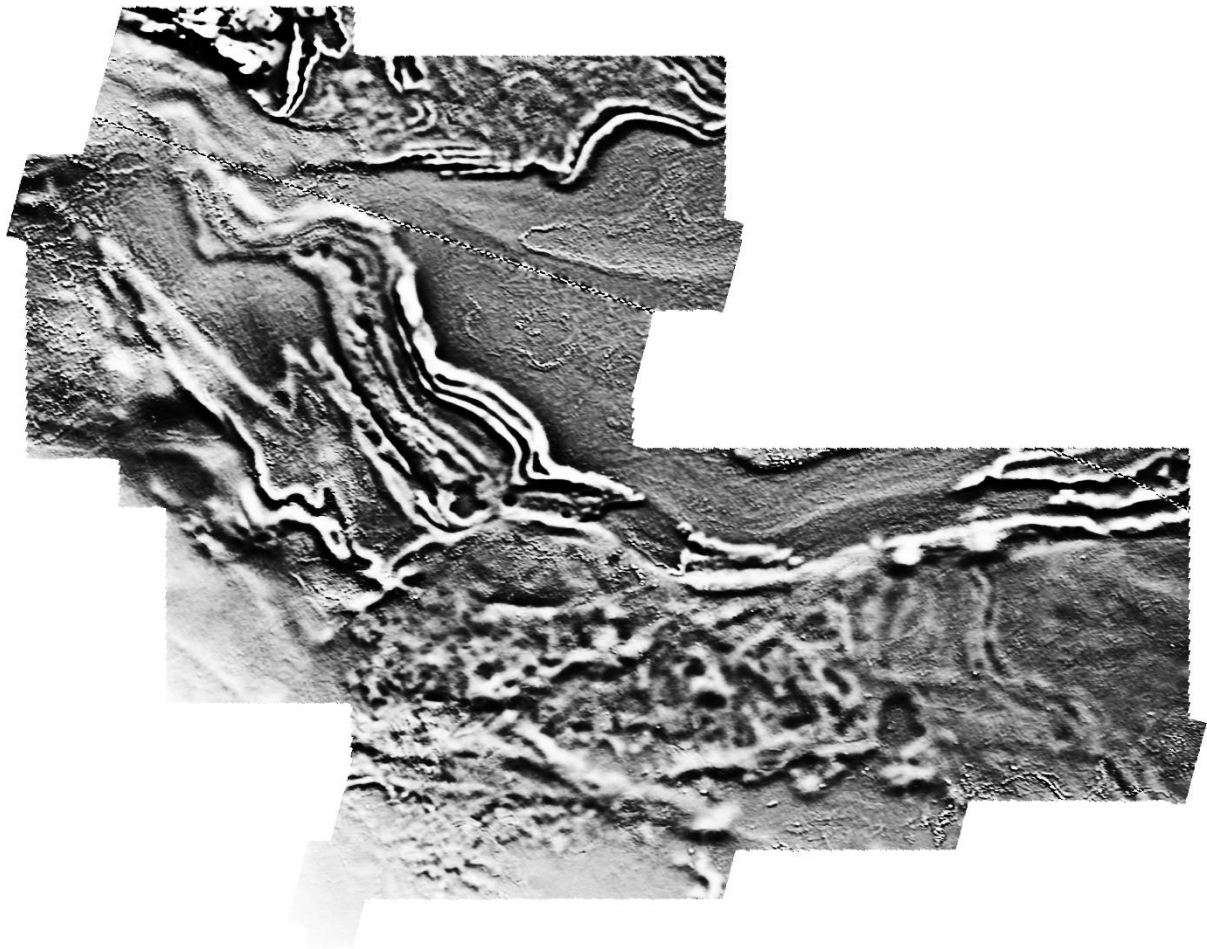
\---GRIDS

120501_EL32282-32296_Dose_Rate
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120501_EL32282-32296_Uranium
120501_EL32282-32296_Uranium.ers
120501_EL32282-32296_Uranium_PPM
120501_EL32282-32296_Uranium_PPM.ers
120502_EL32295_Dose_Rate
120502_EL32295_Dose_Rate.ers
120502_EL32295_Potassium
120502_EL32295_Potassium.ers
120502_EL32295_Potassium_Percent
120502_EL32295_Potassium_Percent.ers
120502_EL32295_Thorium
120502_EL32295_Thorium.ers
120502_EL32295_Thorium_PPM
120502_EL32295_Thorium_PPM.ers
120502_EL32295_Total_Count
120502_EL32295_Total_Count.ers
120502_EL32295_Uranium
120502_EL32295_Uranium.ers
120502_EL32295_Uranium_PPM
120502_EL32295_Uranium_PPM.ers

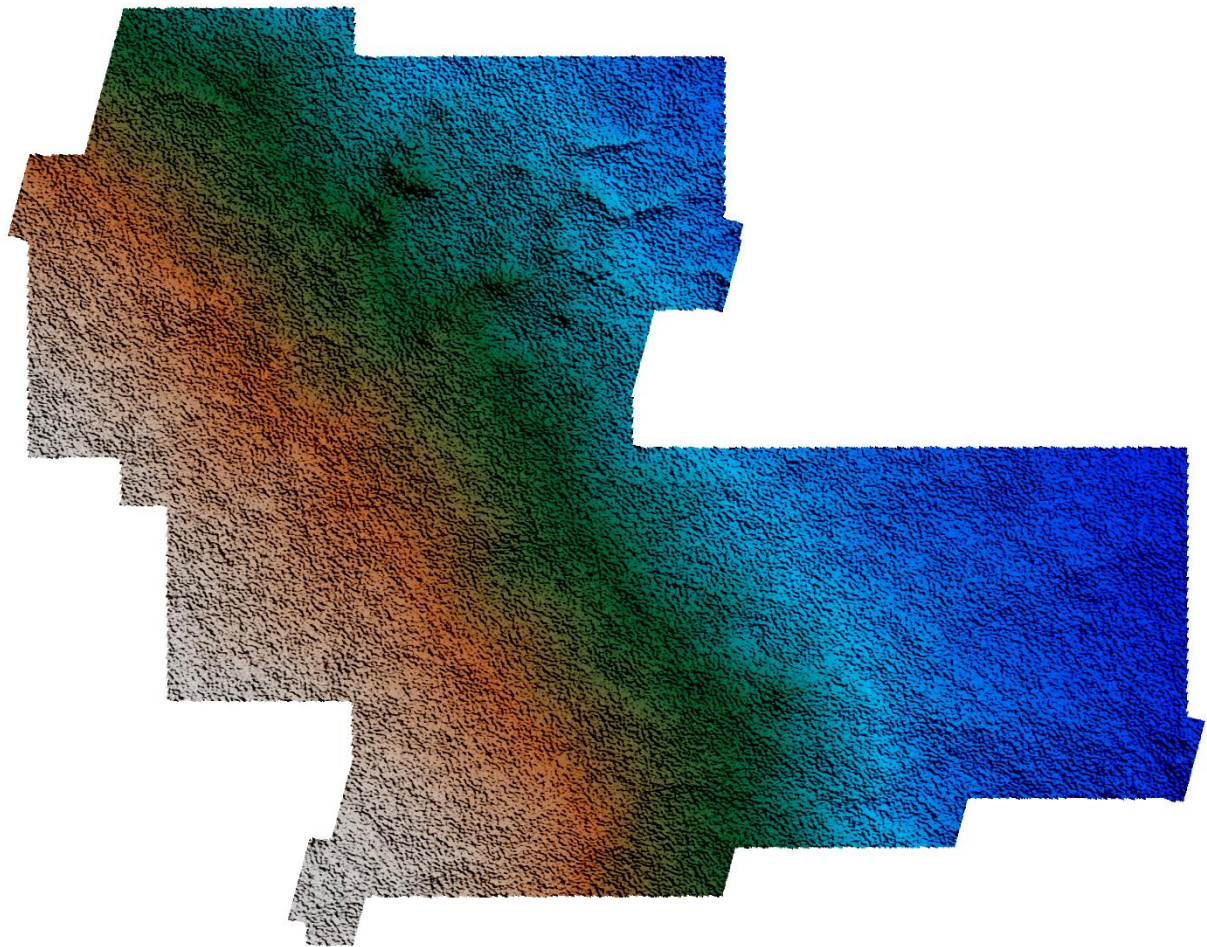
APPENDIX 6 – VERIFICATION IMAGES



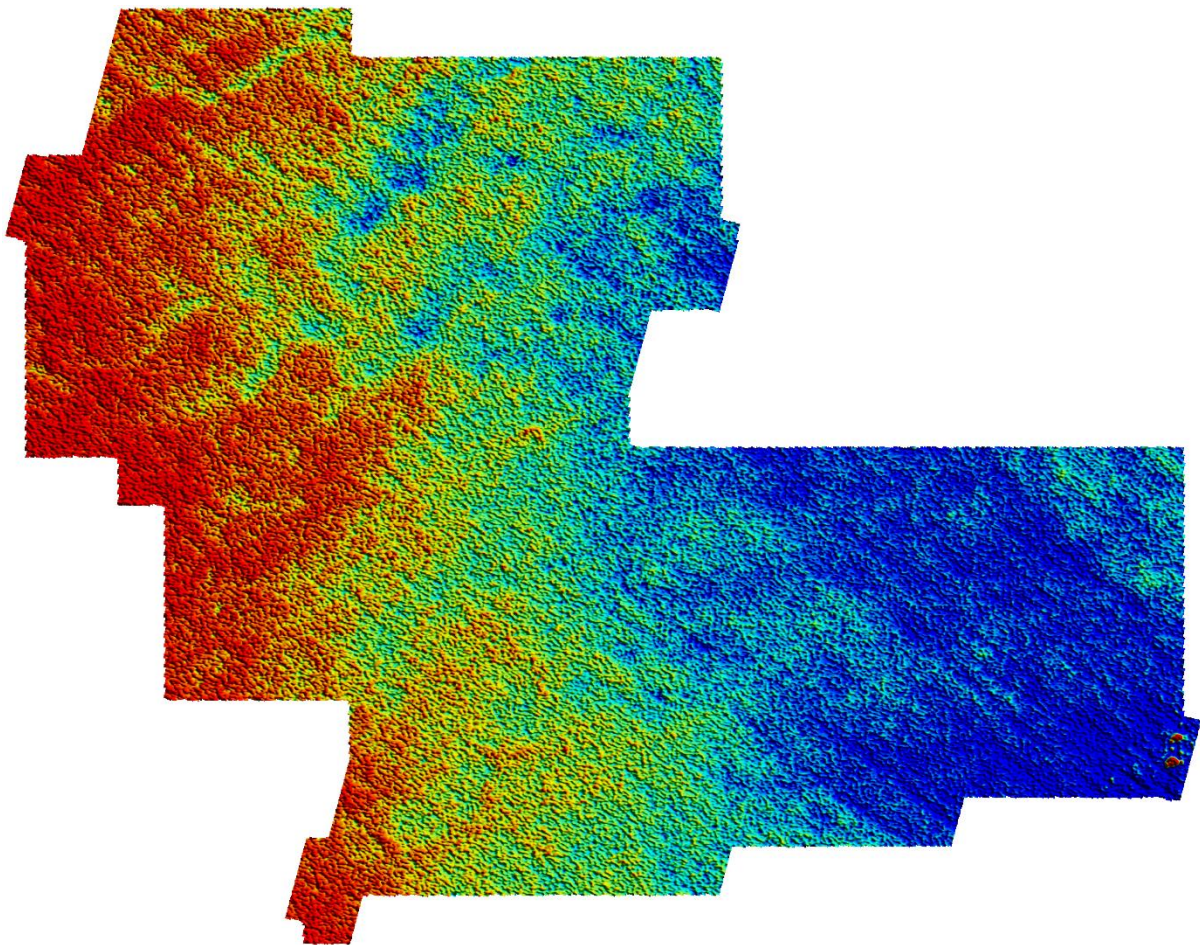
EL32282-32296 - Total Magnetic Intensity



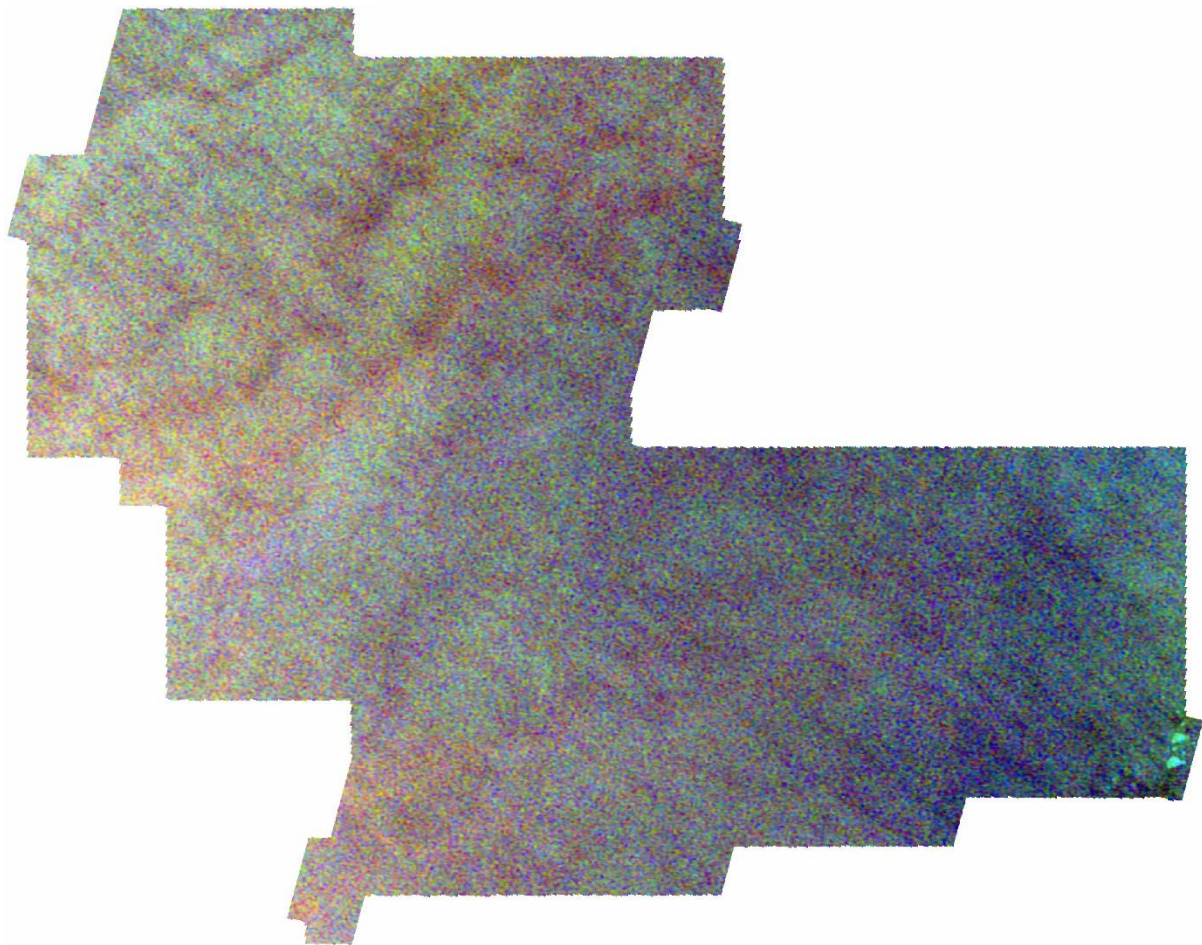
EL32282-32296 - Total Magnetic Intensity - First Vertical Derivative



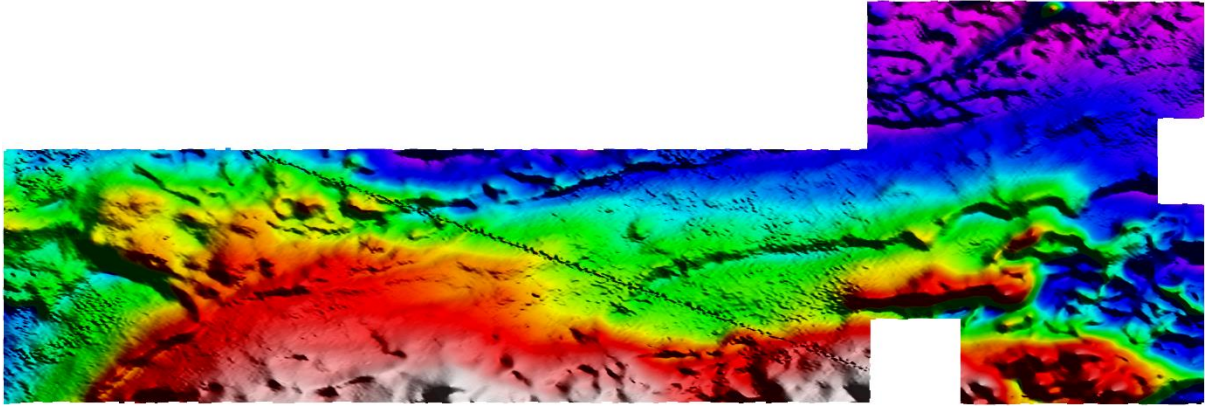
EL32282-32296 - Digital Elevation Model



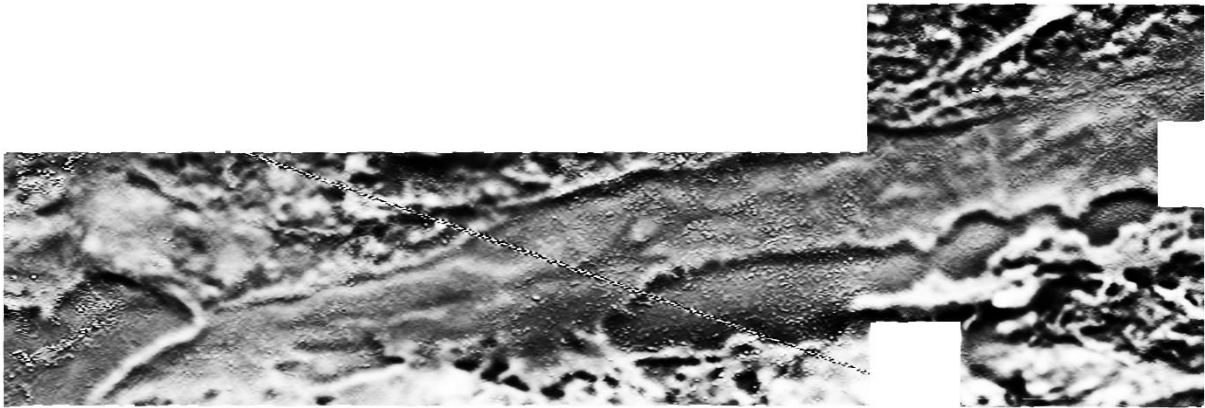
EL32282-32296 - Total Count Radiometrics



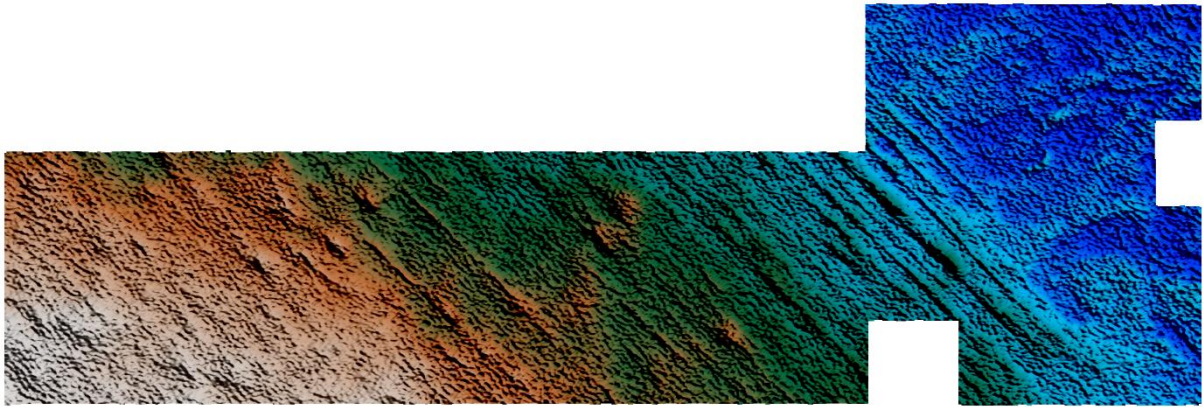
EL32282-32296 - Ternary Radiometrics



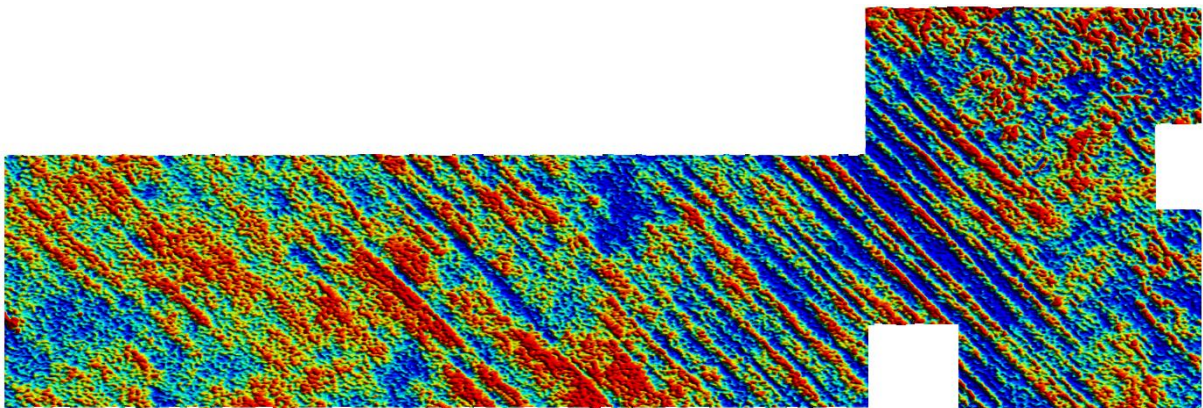
EL32295 - Total Magnetic Intensity



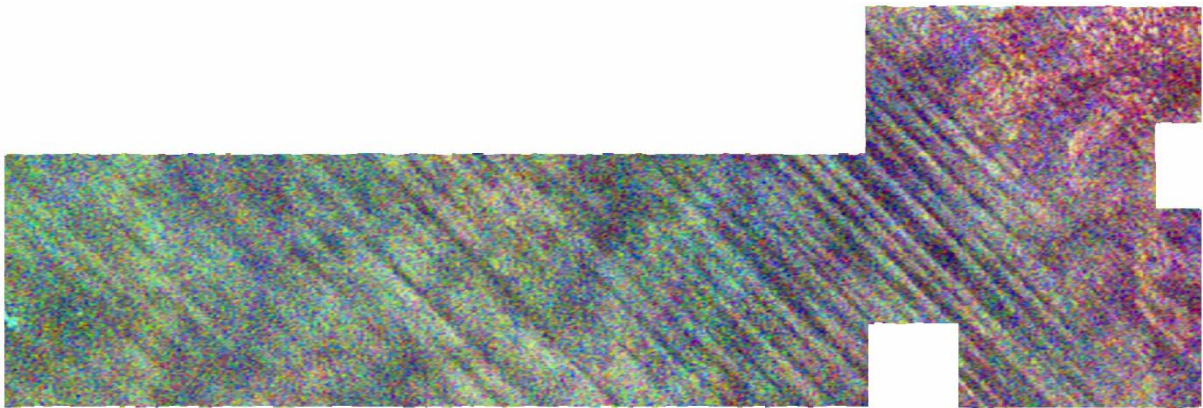
EL32295 - Total Magnetic Intensity - First Vertical Derivative



EL32295 - Digital Elevation Model



EL32295 - Total Count Radiometrics



EL32295 - Ternary Radiometrics