

Processing report
for
Ground Truth Exploration

Rosebute area magnetic survey

The area was surveyed by the Ground Truth Exploration on July 3rd, 2016.
Approximately 5.25 line km of data was acquired, 4.05 km in 9 traverse lines and one 1.2 km tieline through the centre of the area.

IGRF values for the survey area were calculated based on the date of acquisition and Z-coordinate derived from the GPS altitude.
Digital elevation model (DEM) was created from the GPS altitude.

Final TMI grid was produced from diurnal-corrected and IGRF-reduced data.
25m grid cell size was used.
Data collected while changing lines was also used due to short line length and large line spacing.

Geosoft Oasis Montaj and custom auxiliary software were used for the data processing.

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Appendix:

Database Channels:

X	- Easting, NAD 87, zone UTM 7N
Y	- Northing, NAD 87, zone UTM 7N
Z	- GPS altitude
mag_raw	- input TMI data
sq	- reading quality indicator
diur	- diurnal variation
mag_fin1	- final magnetic field value prior to de-corrugation - best used for line data.
DEM	- Digital Elevation Model
IGRF	- International Geomagnetic Reference Field
IGRF_decl	- IGRF declination
IGRF_incl	- IGRF inclination
lon1	- Longitude, WGS84
lat1	- Latitude, WGS84
date	- data acquisition date
Ltime1	- data acquisition time (local, PDT)

List of attachments:

- | | |
|-------------------|---------------------------------|
| 1 - RB_CLI.gdb | - Geosoft database |
| 2 - RB_DEM.grd | - Digital Elevation model grid. |
| 3 - RB_MagFIN.grd | - Final TMI grid |