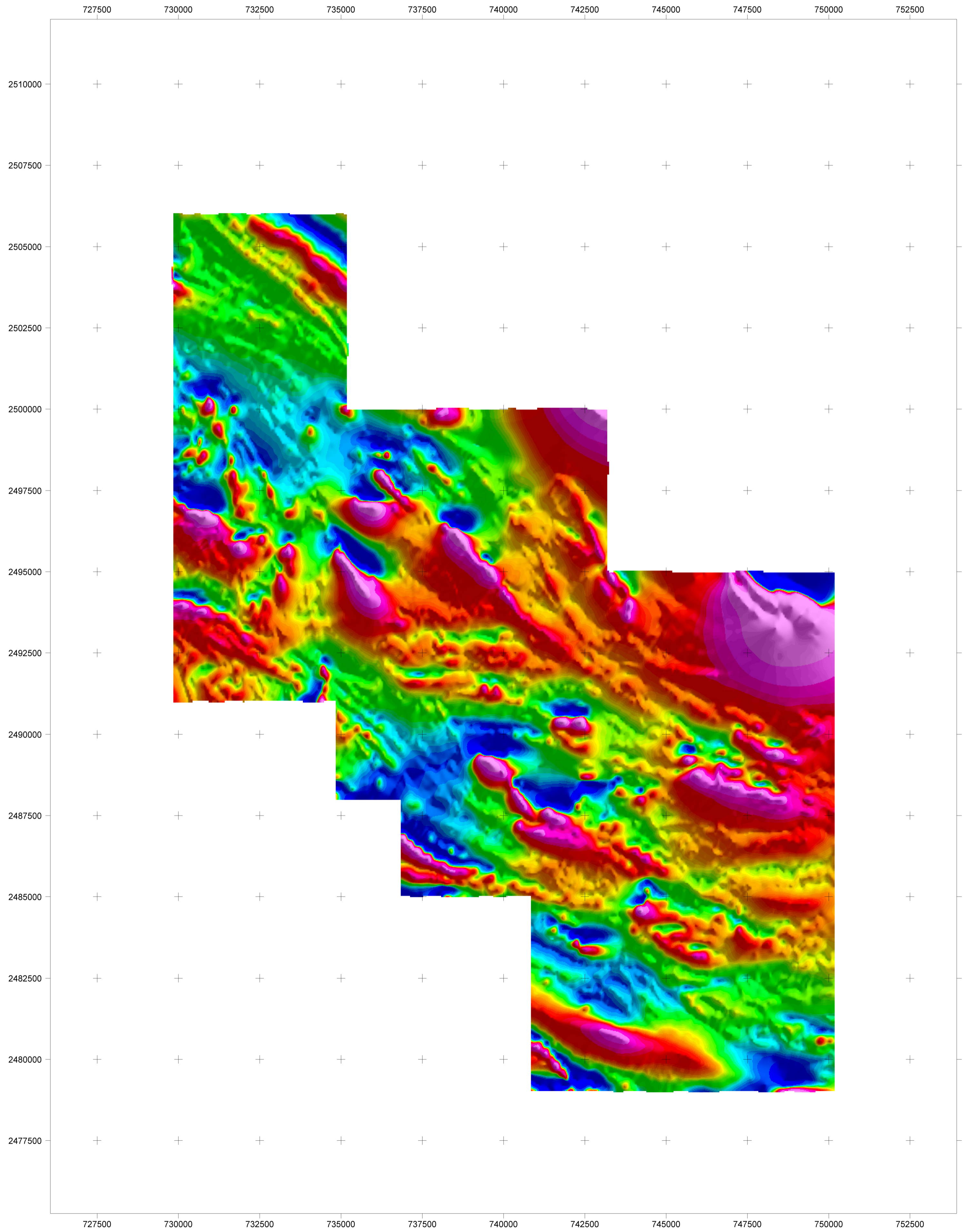


# Block A

## Total Magnetic Intensity



### SURVEY SPECIFICATIONS

Flight Line Direction: 090-270  
 Flight Line Spacing: 200m  
 Tie Line Direction: 000-180  
 Tie Line Spacing: 2000m  
 Survey Height: 50m  
 Line Navigation: Real Time DGPS  
 Survey Flown: July 2011

### EQUIPMENT SPECIFICATIONS

**PLATFORM**  
 Aircraft Type: PAC750 XL  
 Aircraft Registration: ZK-JBC

**Data Acquisition:** UTS ACOGYS V3.74  
**GPS System:** Novatel 12 Channel  
**Height Datum:** EGM96  
**Radar Altimeter:** Bendix King KRA-405

**MAGNETICS**  
 Magnetometer: Cesium Vapour  
 Compensation: RMS AAC500  
 Resolution: 0.001 nT  
 Recording Interval: 0.1 seconds

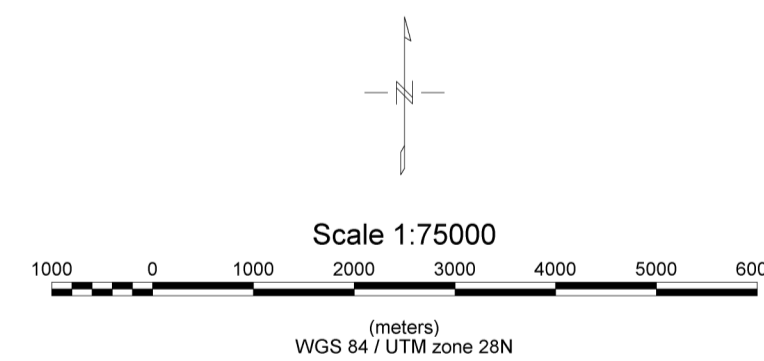
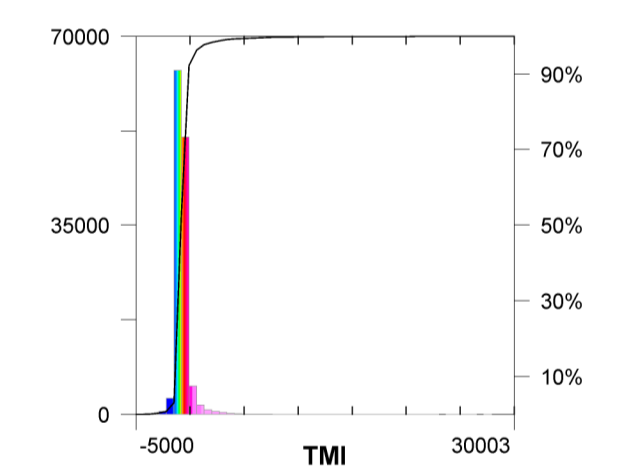
**RADIOMETRICS**  
 Spectrometer: RSI RSX-500  
 Detector Volume: 33.6 litres. NaI  
 Recording Interval: 1.0 seconds

### PROCESSING SPECIFICATIONS

**MAGNETICS**  
 The magnetic data has been corrected and levelled using the following processes:  
 • Diurnal variations were removed through subtraction of the diurnal field measured at the base station magnetometer.  
 • The regional magnetic gradient has been removed through subtraction of the IGRF computed at the date of the survey.  
 • System parallax was corrected.  
 • The magnetic data was levelled using the survey tie line data.  
 • The final magnetic data was microlevelled to remove minor residual variations in profile intensities.

The following IGRF parameters were used during processing:  
 IGRF Model Year: 2011.6  
 Total Field: 36029.72 nT  
 Declination: -4.9743 °  
 Inclination: 25.5663 °  
 Height: 350.1685 m

**RADIOMETRICS**  
 The radiometric data has been corrected and levelled using the following processes:  
 • System parallax was corrected.  
 • Statistical noise reduction was performed using the 256 channel data.  
 • The energy spectrum between the K and Th peaks was recalibrated using the 256 channel data.  
 • Dead time corrections were applied.  
 • Cosmic and aircraft background was removed.  
 • Radon background was removed using the Minty Spectral Ratio method.  
 • Stripping coefficients were applied.  
 • Height attenuation corrections were applied.  
 • The four primary channels data were microlevelled to remove minor residual variations in their profile intensities.



NEGOCE INTERNATIONALE MAURITANIE MINING s.a

**Block A**  
**AIRBORNE GEOPHYSICAL SURVEY**  
**Total Magnetic Intensity**

Aeroquest Airborne Job # B29901