

Geophysics Specifications Summary

AIRBORNE MAGNETICS AND RADIOMETRICS

Specifications

Client name	Cameco Australia Pty Ltd
Project name	Arnhem Land
UTS job number	A34101
Survey type	Airborne magnetic, radiometric and DTM survey
Dataset creation date	02/09/99
Map projection system	Australian Map Grid
Geodetic datum	Australian Geodetic Datum 1984
Line spacing	200m
Line direction	000-180
Tie line spacing	2000m
Tie line direction	090-270
Aircraft survey height	60m
Survey flown	August 1999

Equipment Specifications

Aircraft type	Fletcher FU24-950
Survey navigation	UTS Nav System V3.0
Data acquisition	UTS ACQSYS V3.2
Data positioning	Real time differential GPS
GPS type	Novatel 951R, 12 channel
Magnetometer	Scintrex Cesium Vapour Model CS2
Compensation	RMS AADC II
Resolution	0.001nT
Recording interval	0.1 sec or 4-5m
Sensor height	60 m
Spectrometer	Exploranium model GR-820
Crystal size	33.6 litres, NaI
Recording interval	1.0 sec or 40-50m
Sensor height	60 m
Radar altimeter	King model KRA-405

Recording interval 0.1 sec or 4-5m

Base station magnetometer Scintrex ENVI-MAG

Recording interval 5.0 sec

Survey Statistics

		Mag (nT)	DTM (m)	TC (cps)	K (%)	U (ppm)	TH (ppm)
Null	Cells	616322	616477	617752	619533	619533	619533
Non-Null	Cells	734698	734543	733268	731487	731487	731487
Area	Hectares	117514.473	117489.681	117285.7	117000.876	117000.876	117000.9
Area	Acres	290384.609	290323.346	289819.4	289115.482	289115.482	289115.5
Minimum		-580.022	34.157	265.174	-0.035	0.417	0.212
Maximum		411	250.348	4351.979	0.281	4.534	30.018
Mean		-16.248	109.731	1128.619	0.045	1.147	6.404
Median		-22.572	100.873	999.522	0.039	1.06	5.452
Std.	Dev.	46.151	39.703	445.865	0.028	0.331	3.224
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Corr.	Eigenval.	3.715	1.115	0.867	0.234	0.047	0.022
Cov.	Eigenval.	198835.555	2190.99	1486	0.47	0.009	0