Lower Macquarie River Airborne Electromagnetic (AEM) Mapping Survey

Acquisition and Processing Report

for

Commonwealth of Australia

Represented by and acting through the Department of Agriculture, Fisheries and Forestry, **Bureau of Rural Sciences (Commonwealth)**

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Survey flown: December 2006 - April 2007

by



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FAS JOB # 1835

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SURVEY OPERATIONS AND LOGISTICS

1.1 Introduction

Between the 14th of December 2006 and the 19th of April 2007, Fugro Airborne Surveys Pty. Ltd., (FAS) undertook an airborne TEMPEST electromagnetic and magnetic survey for the Commonwealth of Australia, over the Lower Macquarie River Project area in New South Wales. The survey was flown over two areas with total coverage of the survey amounting to 35,189 line kilometres flown in 118 flights. The survey was flown using a Casa C212-200 Turbo Prop aircraft, registration VH-TEM, and a Shorts Skyvan SC7 aircraft, registration VH-WGT, both owned and operated by FAS. This report summarises the procedures and equipment used by FAS in the acquisition, verification and processing of the airborne geophysical data.

1.2 Survey Base

The survey was based out of Dubbo and Coonamble, New South Wales. The survey aircraft were operated from the Dubbo and Coonamble airports with the aircraft fuel available on site. Temporary offices were set up in rooms at the Tallarook Motor Inn, Dubbo, and the Castlereagh Motel, Coonamble, from where all survey operations were run and the post-flight data verification was performed.

1.3 Survey Personnel

The following personnel were involved in this project:

Project Supervision - Acquisition Bart Anderson

- Processing Matthew Owers, Kathlene Oliver

Pilot/s Grant Hamilton

Joshua Cox Mark Harradence Mick Young Peter Hiskins Til Ribarich Tim Haldane

System Operator/s Adam Ellis

Danial Green Glendon Turner Luke Young Michael Wirski Scott Miller Martyn Allen

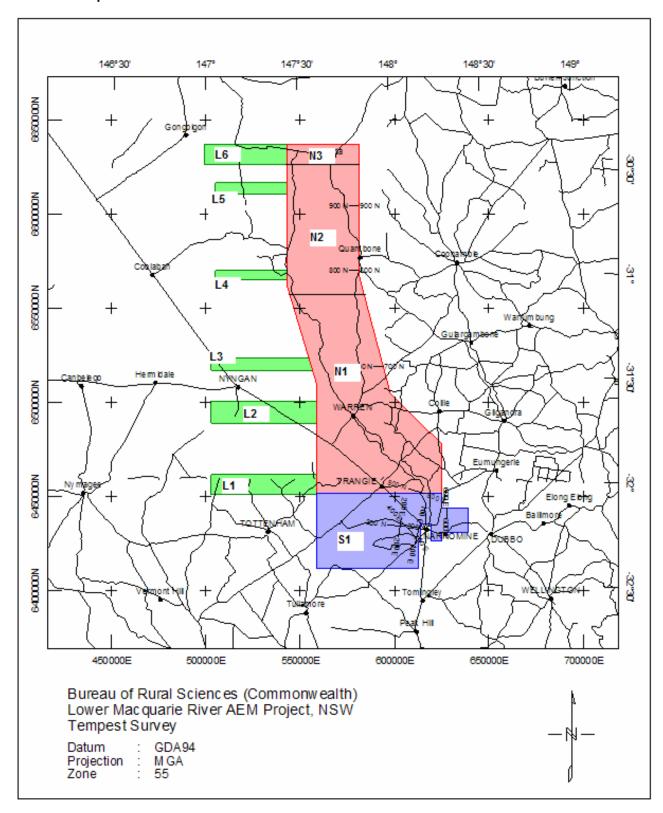
Field Data Processing Martyn Allen

Kah Tho Lee Matthew Lawrence Matthew Noteboom

Nadir Halim Stephen Carter Matthew Noteboom

Office Data Processing Matthew Note Glenn Gooch

1.4 Area Map



SURVEY SPECIFICATIONS AND PARAMETERS

1.5 Area Co-ordinates

The survey area was located within Universal Transverse Mercator (UTM) Zone 55S, Central Meridian = 147° F

Note - Co-ordinates in Geocentric Datum of Australia 1994 (GDA94), Map Grid of Australia zone 55 (MGA55)

Coordinates of Survey Area S1 (Southern Survey Area).

Vertex	Easting (m)	Northing (m)	Vertex	Easting (m)	Northing (m)
1	558900	6411900	8	624900	6426300
2	558900	6451800	9	619500	6426300
3	624900	6451800	10	619500	6435900
4	624900	6444000	11	613800	6435900
5	639000	6444000	12	613800	6426300
6	639000	6431100	13	612600	6426300
7	624900	6431100	14	612600	6411900

Coordinates of the polygon that encloses Survey Areas N1, N2, N3, L1, L2, L3, L4, L5 and L6 i.e. the complete area to be flown with east-west lines (Northern Survey Area)

i.e. the complete area to be flown with east-west lines (Northern Survey Area).					
Vertex	Easting	Northing	Vertex	Easting	Northing
VEILEX	(m)	(m)	VEITEX	(m)	(m)
1	499200	6637200	16	503100	6517200
2	581100	6637200	17	503100	6523500
3	581100	6567437	18	554672	6523500
4	597855	6504531	19	543300	6561106
5	624900	6477900	20	543300	6565200
6	624900	6451200	21	505200	6565200
7	503100	6451200	22	505200	6570000
8	503100	6462000	23	543300	6570000
9	558900	6462000	24	543300	6610200
10	558900	6489000	25	505200	6610200
11	503100	6489000	26	505200	6616800
12	503100	6500700	27	543300	6616800
13	558900	6500700	28	543300	6626400
14	558900	6509516	29	499200	6626400
15	556550	6517200			

Coordinates of Survey Area N1, L1, L2 and L3 (300m/900m spacing)

Vertex	Easting	Northing	Vertex	Easting	Northing
vertex	(m)	(m)	vertex	(m)	(m)
1	581100	6567437	10	503100	6500700
2	597855	6504531	11	558900	6500700
3	624900	6477900	12	558900	6509516
4	624900	6451200	13	556550	6517200
5	503100	6451200	14	503100	6517200
6	503100	6462000	15	503100	6523500
7	558900	6462000	16	554672	6523500
8	558900	6489000	17	544239	6558000
9	503100	6489000	18	583614	6558000

Coordinates of Survey Area N2, L4 and L5 (600m spacing)

Vertex	Easting (m)	Northing (m)	Vertex	Easting (m)	Northing (m)
1	543300	6561106	8	505200	6616800
2	543300	6565200	9	543300	6616800
3	505200	6565200	10	543300	6626400
4	505200	6570000	11	581100	6626400
5	543300	6570000	12	581100	6567437
6	543300	6610200	13	583614	6558000
7	505200	6610200	14	544239	6558000

Coordinates of Survey Area N3 and L6 (300m/900m spacing)

Vertex	Easting	Northing
Vertex	(m)	(m)
1	499200	6637200
2	581100	6637200
3	581100	6626400
4	499200	6626400

Line Coordinates for Seismic and Borehole Lines

	Eine Goordinates for Gelorine and Boreriole Eines				
Line #	Surveyed Line #	Easting	Northing	Easting	Northing
100	81090	613347	6434698	610966	6424986
200	82090	601924	6428719	603589	6438579
300	93090	596009	6435176	605968	6434261
400	84162, 84260	603860	6436700	610600	6429300
500	85010, 85161	606908	6454490	616415	6451390

Line Coordinates for Repeat Calibration Lines

Line #	Surveyed	Easting	Northing	Easting	Northing
	Line #				
600	86xxa	627600	6439000	627600	6444000
700	87xxa	589001	6519000	594001	6519000
800	88xxa	576100	6570000	581100	6570000
900	89xxa	576100	6604800	581100	6604800

Note – "xx" is flight number in which repeat line was flown, "a" is attempt number See Appendix III for details.

1.6 Survey Area Parameters

Coverage specifications for Survey Area S1

Coverage specifications for earlies 7 tied of			
Line spacing	300 metres		
Tie line spacing	N/A		
Line direction	0° grid (constant Easting)		
Tie line direction	N/A		
Terrain clearance	116m		
Approximate line kilometres	8,661 kilometres		
Project number	1140		

Coverage specifications for Survey Areas N1, N2, N3, L1, L2, L3, L4, L5 AND L6

Line spacing	300m for Survey Areas N1 and N3
	600m for Survey Areas N2, L4 and L5
	900m for Survey Areas L1, L2, L3 and L6
Tie line spacing	N/A
Line direction	90° grid (constant Northing)
Tie line direction	N/A
Terrain clearance	116m
Approximate line kilometres	26,529 kilometres
Project number	1140

Coverage specifications for Seismic/Borehole/Calibration lines

Line spacing	N/A
Tie line spacing	N/A
Line direction	Multiple headings
Tie line direction	N/A
Terrain clearance	116m
Approximate distance (planned)	70 km
Line kilometres flown	235.5 km
Project number	1140

Job Number - 1835

Survey Company - Fugro Airborne Surveys Pty Ltd
Date Flown - 14th December 2006 – 19th April 2007

Client - Commonwealth of Australia

EM System - 25 Hz TEMPEST

Navigation - Real-time differential GPS

Datum - GDA94 (MGA 55)

Nominal Terrain Clearance - 116 m

1.7 Job Safety Plan

A Job Safety Plan was prepared and implemented in accordance with the Fugro Airborne Surveys Occupational Safety & Health Management System.

2. AIRCRAFT EQUIPMENT AND SPECIFICATIONS

2.1 Aircraft

Manufacturer - CASA

Model - C212-200 Turbo Prop

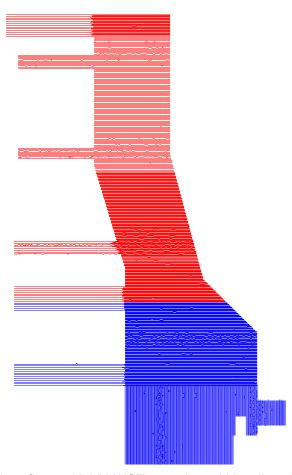
Registration - VH-TEM

Ownership - Fugro Airborne Surveys Pty Ltd System number - I (system flag in delivered dataset)

Manufacturer - Shorts SKYVAN

Model - SC7 Registration - VH-WGT

Ownership - Fugro Airborne Surveys Pty Ltd System number - 2 (system flag in delivered dataset)



Lines flown with VH-WGT are coloured blue; lines flown with VH-TEM are coloured red.

2.2 TEMPEST System Specifications

Specifications of the TEMPEST Airborne EM System (Lane et al., 2000) are:

• Base frequency - 25 Hz

• Transmitter area - 221 m² (TEM) 186 m² (WGT)

• Transmitter turns - 1

Waveform - Square
 Duty cycle - 50%
 Transmitter pulse width - 10 ms
 Transmitter off-time - 10 ms

Peak current
 280 A (TEM) 300 A (WGT)

Peak moment
 Average moment
 Average moment
 G1880 Am² (TEM) 55800 Am² (WGT)
 30940 Am² (TEM) 27900 Am² (WGT)

Sample rate
 Sample interval
 T5 kHz on X and Z
 13.333 microseconds

Samples per half-cycle - 1500

System bandwidth - 25 Hz to 37.5 kHz

Tx Loop Flying height nominal - 116 m (subject to safety considerations)

• Tx Loop Flying height average - 116.0 (TEM) 118.2 (WGT)

EM sensor
 Towed bird with 3 component dB/dt coils

Tx-Rx horizontal separation average Tx-Rx vertical separation average -120.7 (TEM) -114.9 (WGT)
 -39.4 (TEM) -45.2 (WGT)

Tx-Rx horizontal separation standard - 115 m (geometry corrected standard)
 Tx-Rx vertical separation standard - 45 m (geometry corrected standard)

Stacked data output interval
 200 ms (~12 m)

Number of output windows - 15

Window centre times
 - 13 μs to 16.2 ms

Magnetometer - Stinger-mounted caesium vapour

Magnetometer compensation
 Magnetometer output interval
 Magnetometer resolution
 Typical noise level
 GPS cycle rate
 Fully digital
 200 ms (~12 m)
 0.001 nT
 0.2 nT
 1 second

2.2.1 EM Receiver and Logging Computer

The EM receiver computer is a Picodas PDAS-1000 data acquisition system. The EM receiver computer executes a proprietary program for system control, timing, data acquisition and recording. Control, triggering and timing is provided to the TEMPEST transmitter and Digital Signal Processing (DSP) boards by the timing card, which ensures that all waveform generation and sampling is accomplished with high accuracy. The timing card is synchronised to the Global Positioning System (GPS) through the use of the Pulse Per Second (PPS) output from the system GPS card. Synchronisation is also provided to the magnetometer processor card for the purpose of accurate magnetic sampling with respect to the EM transmitter waveform.

The EM receiver computer displays information on the main screen during system calibrations and survey line acquisition to enable the airborne operator to assess the data quality and performance of the system.

2.2.2 TEMPEST Transmitter

The transmitted waveform is a square wave of alternating polarity, which is triggered directly from the EM receiver computer. The nominal transmitter base frequency was 25 Hz with a pulse width of 10ms (50 % duty cycle). Loop current waveform monitoring is provided by a current transformer located directly in the loop current path to allow for full logging of the waveform shape and amplitude, which is sampled by the EM receiver.

2.2.3 TEMPEST 3-Axis Towed Bird Assembly

The TEMPEST 3-axis towed bird assembly provides accurate low noise sampling of the X (horizontal in line), Y (horizontal transverse) and Z (vertical) components of the electromagnetic field. Note that the Y component data were sampled at a lower rate and were not processed or delivered in the dataset for this survey. The receiver coils measure the time rate of change of the magnetic field (dB/dt). Signals from each axis are transferred to the aircraft through a tow cable specifically designed for its electrical and mechanical properties.

2.3 PDAS 1000 Survey Computer

The SURVEY computer is a PICODAS PDAS 1000 data acquisition system. The SURVEY computer executes a proprietary program for acquisition and recording of location, magnetic and ancillary data.

Data are presented both numerically and graphically in real time on the Video Graphics Array (VGA) Liquid Crystal Display (LCD) display, which provides an on-line display capability. The operator may alter the sensitivity of the displays on-line to assist in quality control. Selected EM data are transferred from the EM receiver computer to the SURVEY computer for quality control (QC) display.

2.3.1 Caesium Vapour Magnetometer Sensor

A caesium vapour magnetometer sensor is utilised on the aircraft and consists of the sensor head, cable and the sensor electronics. The sensor head is housed at the end of a composite material tail stinger.

2.3.2 Magnetometer Processor Board

A Picodas magnetometer processor board is used for de-coupling and processing the Larmor frequency output of the magnetometer sensor. The processor board interfaces with the PDAS 1000 survey computer, which initiates data sampling and transfer for precise sample intervals and also with the EM receiver computer to ensure that the magnetic samples remain synchronised with the EM system.

2.3.3 Fluxgate Magnetometer

A tail stinger mounted Bartington MAG-03MC three-axis fluxgate magnetometer is used to provide information on the attitude of the aircraft. This information is used for compensation of the measured magnetic total field.

2.3.4 GPS Receiver

A Novatel GPScard 951R is utilised for airborne positioning and navigation. Satellite range data are recorded for generating post processed differential solutions.

2.3.5 Differential GPS Demodulator

The OMNISTAR differential GPS service provides real time differential corrections.

2.4 Navigation System

A Picodas PNAV 2001 Navigation Computer is used for real-time navigation. The PNAV computer loads a pre-programmed flight plan from disk which contains boundary co-ordinates, line start and end co-ordinates, local co-ordinate system parameters, line spacing, and cross track definitions. The World Geodetic System 1984 (WGS84) latitude and longitude positional data received from the Novatel GPScard contained in the SURVEY computer is transformed to the local co-ordinate system for calculation of the cross track and distance to go values. This information, along with ground heading and ground speed, is displayed to the pilot numerically and graphically on a two line LCD display, and on an analogue Horizontal Strip Indicator (HSI). It is also presented on a LCD screen in conjunction with a pictorial representation of the survey area, survey lines, and ongoing flight path.

The PNAV is interlocked to the SURVEY computer for auto selection and verification of the line to be flown. The GPS information passed to the PNAV 2001 navigation computer is corrected using the received real time differential data from the OMNISTAR service, enabling the aircraft to fly as close to the intended track as possible.

2.5 Altimeter System

2.5.1 Radar Altimeter

Model: Sperry Stars RT-220 radar altimeter system (VH-TEM)
Model: Collins ALT55 radar altimeter system (VH-WGT)

Sample interval: 0.2 second

Accuracy: ± 1.5 % of indicated altitude (both instruments).

The radar altimeters fitted to these aircraft are high quality instruments whose output is factory calibrated. The aircraft radar altitude is recorded onto hard drive as well as displayed on the aircraft chart recorder. The recorded value is the average of the altimeter's output during the previous 0.2 seconds.

2.5.2 Laser Altimeter

Model: Optech 501SB (TEM)

Regal LD90-3300HR (WGT)

Sample interval: 0.2 second

Accuracy: ± 0.05 m at survey altitude (both instruments)

2.5.3 Barometric Altimeter

Output of a Digiquartz 215A-101 pressure transducer is used for calculating the barometric altitude of the aircraft. The atmospheric pressure is taken from a gimbal-mounted probe projecting 0.5 metres from the wing tip of the aircraft and fed to the transducer mounted in the aircraft wingtip.

2.6 Video Tracking System

The video tape recorded by a PAL VHS (VH-WGT) or digital (VH-TEM) video system is synchronised with the geophysical record by a digital fiducial display, which is recorded along with GPS latitude and longitude information and survey line number.

2.7 Data Recorded by the Airborne Acquisition Equipment

Raw EM data including fiducial, local time, X and Z axis sensor response, current monitor and bird auxiliary sensor output are recorded on the EM receiver computer as " \mathbf{G} " EM files.

The Survey computer records all other survey data including aeromagnetic and GPS data using as "S" Survey files, and "R" Rover files containing GPS raw range data for post processing.

3. GROUND DATA ACQUISITION EQUIPMENT AND SPECIFICATIONS

3.1 Magnetic Base Station

A CF1 magnetometer was used for VH-TEM and two Geometrics G856 magnetometers for VH-WGT to measure the daily variations of the Earth's magnetic field. The base stations were established in an area of low gradient, away from cultural influences. The base stations were run continuously throughout the survey flying period with a sampling interval of 0.5 seconds (CF1) or 5 seconds (G856) at a sensitivity of 0.1 nT. All magnetometer base stations at Dubbo were set up near an access track west of the airport, and at Coonamble (for VH-TEM only) approximately 100m from the aircraft parking position, away from the terminal building.

3.2 GPS Base Station

A GPS base logging station integrated with the CF1 unit was used for VH-TEM throughout, setup at locations as for the magnetic base stations above (see 3.1). For VH-WGT, a GPS base station comprising a Novatel receiver and portable computer was set up at the Tallarook Motor Inn, Dubbo. The GPS antenna was mounted on the balcony of the office, with the antenna set above the roof level.

Each GPS base station position was calculated by logging data continuously at the base position over a period of approximately 24 hours. These data were then averaged to obtain the position of the base station using GrafNav software.

Dubbo (VH-WGT)

The calculated GPS base position was (in WGS84):

Lat: 32° 12' 54.55194" S Long: 148° 34' 08.06473" E

Height: 300.984 m. (WGS84 Ellipsoidal Height)

Dubbo (VH-TEM flts 32-38)

The calculated GPS base position was (in WGS84):

Lat: 32° 14′ 56.37838" S Long: 148° 35′ 60.90650" E

Height: 298.882 m. (WGS84 Ellipsoidal Height)

Coonamble (VH-TEM)

The calculated GPS base position was (in WGS84):

Lat: 30° 57' 14.04442" S Long: 148° 22' 54.80051" E

Height: 209.570 m. (WGS84 Ellipsoidal Height)

4. EM AND OTHER CALIBRATIONS AND MONITORING

At the beginning and end of each individual survey flight, the EM system is checked for background noise levels and performance. The airborne checks are conducted at a nominal terrain clearance of 1100 m (3600 ft) to eliminate ground response.

These checks include:-

4.1 Pre-Flight Barometer Calibration: Line C60FF

A recording of the barometer output at a known elevation is carried out before take-off to assist with calibration and determination of drift during the flight. The barometer is used as a back-up to the GPS for aircraft altitude. The GPS position of the aircraft in parking position is also recorded for GPS QC. *Note: FF is the flight number*

4.2 Pre/Post-Flight Transmitter-off: Lines C9000, 9006

These lines are recorded in straight and level flight with the system in standard survey geometry, with the transmitter turned off and bird response turned on to observe ambient noise and to check for noise in the receiver system (bird/coils \rightarrow tow cable \rightarrow winch \rightarrow computer).

4.3 Pre/Post-Flight Noise Additive: Lines C9001, 9004

These lines are recorded in straight and level flight with the system in standard survey geometry, with the transmitter on and the bird response turned off at the tow cable winch. This is to check the noise contribution from the acquisition system and is used in deconvolution of survey line data.

4.4 Pre/Post-Flight Zero: Line 70FF, 71FF

These lines are recorded in straight and level flight with the system in standard survey configuration with transmitter and receiver turned on. This is used to determine the system's response in the absence of ground signal and is used to determine a standard waveform for deconvolution of survey lines. *Note: FF is the flight number*

Additionally, through all these calibrations the airborne operator can assess the system and ambient noise levels.

4.5 Pre-Flight Swoops: Line C9003

This line is recorded immediately after the pre-flight zero. During this manoeuvre the pilot conducts a series of 'swoop' manoeuvres (pitch up/pitch down) over approximately 30-40 seconds to vary the position of the towed sensor relative to the aircraft. The EM data are monitored by the airborne operator to confirm correct operation of the system during the manoeuvre. This data is used to determine coefficients used in the processing to compensate for such variations in the survey data

4.6 Post-Flight Barometer Calibration: Line C61FF

A recording of the barometer output is repeated following landing at the end of the flight to assist with calibration and determination of drift during the flight. Again, the GPS position of the aircraft in parking position is also recorded for GPS QC. *Note: FF is the flight number*

4.7 Dynamic Magnetometer Compensation

To limit aircraft manoeuvre effects on the magnetic data that can be of the same spatial wavelength as the signals from geological sources, compensation calibration lines are flown as high as practical in a low magnetic gradient area close to the survey. This involves flying a series of tests at 2500m or higher on the survey line heading and approximately 15 degrees either side to accommodate small heading variations whilst flying survey lines. The data for each heading consists of a series of aircraft manoeuvres, including pitches, rolls and yaws. This is done to artificially create the most extreme possible attitude the aircraft may encounter whilst on survey. Data from these lines are used to derive

compensation coefficients for removing magnetic noise induced by the aircraft's attitude in the naturally occurring magnetic field.

Compensation data were acquired on the following dates:

Aircraft	Compensation Date	Flights Covered
VH-TEM	1/3/2007	All Flights
VH-WGT	16/1/2007	1 – 56
VH-WGT	28/3/2007	57 - 80

The following tables summarise the compensation improvement based on RMS values (in nanoTeslas) for high-pass filtered magnetic data from compensation flights.

Aircraft	Date		North	South	East	West
VH-TEM	1/3/2007	RMS Uncomp	2.23186	2.34532	2.04766	2.25468
		RMS Comp	0.15455	0.14177	0.14672	0.18308
VH-WGT 16/1/2007		RMS Uncomp	0.28943	0.16679	0.15944	0.17407
		RMS Comp	0.07604	0.08381	0.08029	0.08654
VH-WGT	28/3/2007	RMS Uncomp	0.14113	0.10225	0.11407	0.10630
		RMS Comp	0.07588	0.07697	0.07637	0.07557

4.8 Parallax Checks

Due to the relative positions of the EM towed bird and the magnetometer instruments on the aircraft and to processing / recording time lags, raw readings from each vary in position. To correct for this and to align selected anomaly features on lines flown in opposite directions, magnetics, EM data and the altimeters are 'parallaxed' with respect to the position information. System parallax is checked by flying in opposing directions over known geophysical features. This is also monitored routinely during processing of jobs and specifically checked following any major changes in the aircraft system which are likely to affect the parallax values. The last parallax check was performed in May 2006; all values were found to be consistent with previous results.

VH-TEM

Variable	Parallax Value
Magnetics	0.6 s
GPS	0 s
Radar Altimeter	0.6 s
EM – X	0.2 s
EM – Z	1.4 s

VH-WGT

Variable	Parallax Value
Magnetics	0.4 s
GPS	0 s
Radar Altimeter	0.6 s
EM - X	0.2 s
EM – Z	1.4 s

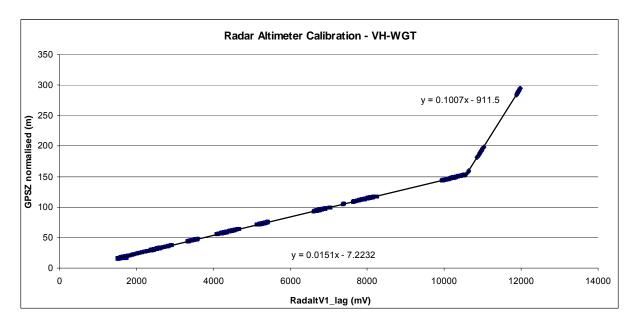
Note that a positive parallax value in the tables above indicates that samples in that data stream are moved to lower fiducial numbers.

4.9 Radar Altimeter Calibration

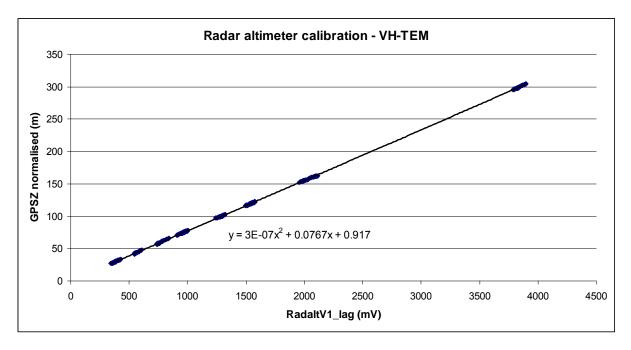
The radar altimeter is checked for accuracy and linearity every 12 months or when any change in a key system component requires this procedure to be carried out. This calibration involves flying a number of lines at a range of constant altitudes to allow the radar altimeter data to be compared to and assessed with other height data (GPS and barometric) to confirm the accuracy of the radar altimeter over its operating range.

Absolute radar calibration for VH-WGT was carried out over Dubbo airport, NSW in January 2007 and was successful in calibrating the radar altimeter to information provided by the GPS and barometer instrument.

The graph below shows the results of this calibration for VH-WGT as Radar Altimeter output (mV) versus the GPS height normalised to altitude above the airstrip (based on average GPS along the lowest altitude pass). This chart shows the linear behaviour of the radar altimeter in each range, and the coefficients to convert from millivolts to metres.



Absolute radar calibration for VH-TEM was carried out over Dubbo airport on 1st March 2007. Results are shown below. Similar to the VH-WGT results, GPS height is normalised based on a line recorded while taxiing along the runway.



4.10 Laser Altimeter Calibration

The Laser altimeters for both aircraft were checked based on the same process as that described above for the radar altimeters. The data used for VH-TEM was from the same flight and based on passes of the Dubbo airstrip, while VH-WGT flew similar passes over the Narromine airstrip. The two plots below show the laser altimeter heights compared to normalised GPS heights. Pitch and roll

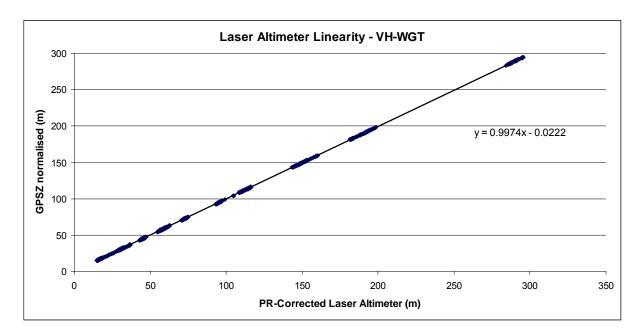
manoeuvres were also conducted to determine coefficients to correct for the laser's deviation from the vertical.

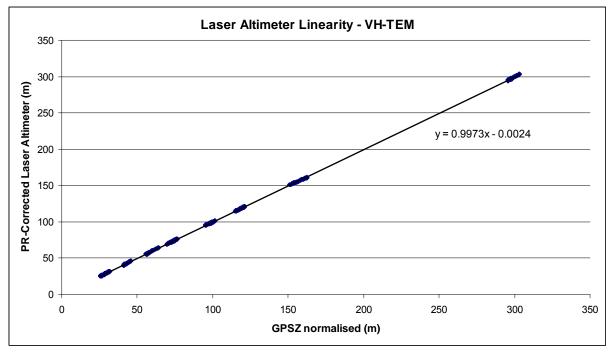
The following equation was used to correct the laser altimeter for changes in pointing direction:

$$l_c = l_m \cos(p_m + p_0)\cos(r_m + r_0) - h_l \sin(p_m + p_0)$$

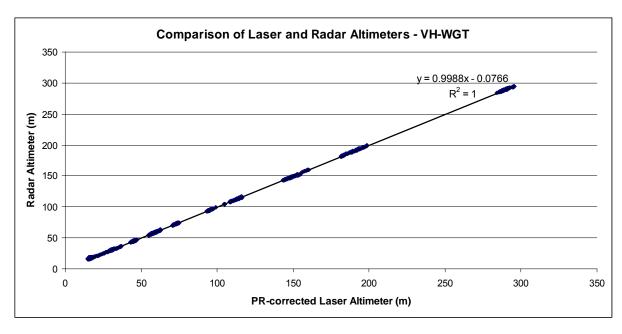
Where l_c is the corrected altimeter value, l_m the raw measured altimeter value, p_m and r_m are the measured transmitter loop pitch and roll respectively, p_0 and r_0 are the laser altimeter pointing pitch and roll offsets relative to the transmitter loop orientation respectively, and h_0 is the horizontal offset between the laser altimeter and the aircraft's centre of rotation. Based on the data acquired during the calibration flights, the following values for p_0 , r_0 and h_0 were used for corrections throughout the survey.

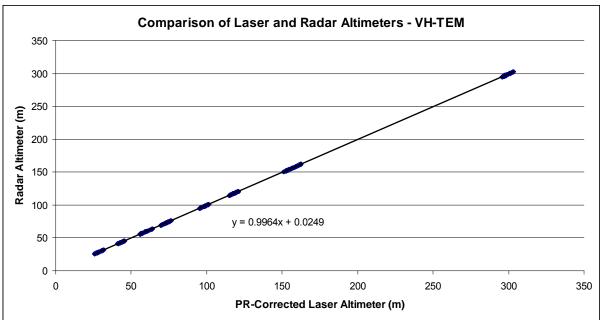
	p_0	r_0	h_0
VH-WGT	-1.00	1.60	1.03
VH-TEM	0.90	-0.10	0.42





The following two plots show the radar altimeter compared to the laser altimeter, corrected for aircraft pitch and roll.



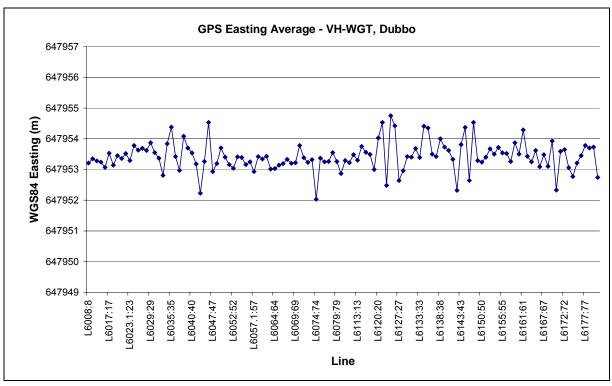


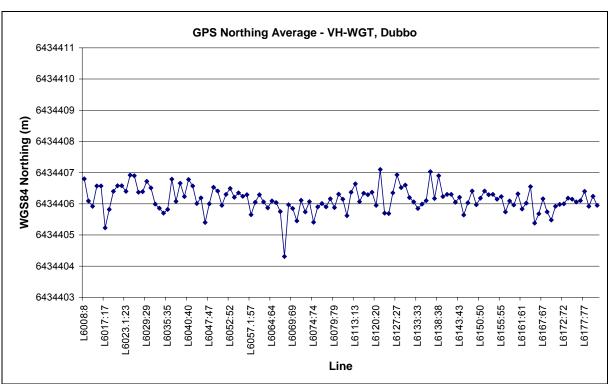
4.11 Heading Error Checks

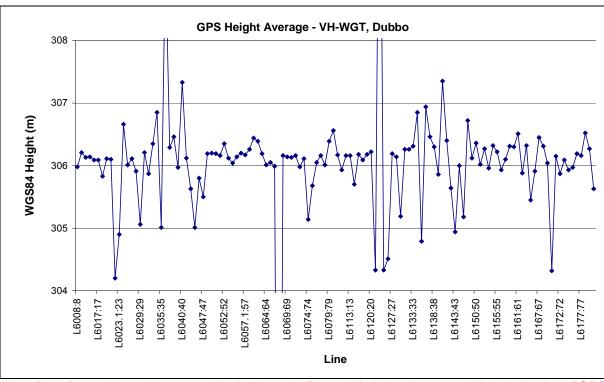
Historically, heading error checks have been part of the aeromagnetic data acquisition procedure but they are no longer used. Fugro Airborne Surveys now calculates these effects using the aircraft magnetic compensation system and specially developed software. The precision to which these effects are now calculated and corrected for is far in excess of the manual methods used in the past.

4.12 Repeat Point GPS Check

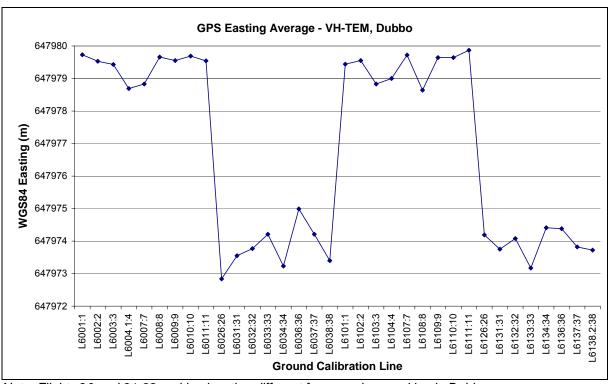
At the end of each flight the aircraft were parked as close to the same position as possible. Before and after the flight 90-120 seconds of data was recorded in this location to provide a check for consistency in navigation data. The following pages show plots of the average GPS height, northing and easting for each ground calibration during the survey. Comments on spurious data follow each plot.



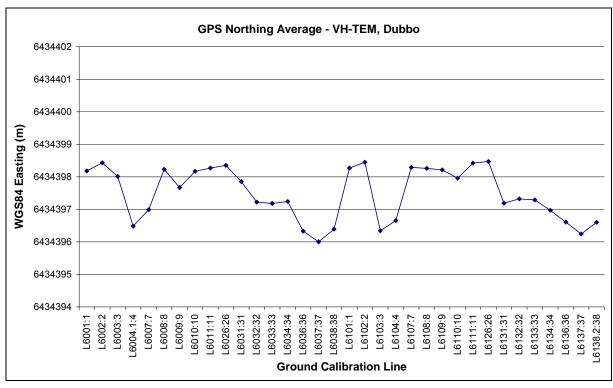


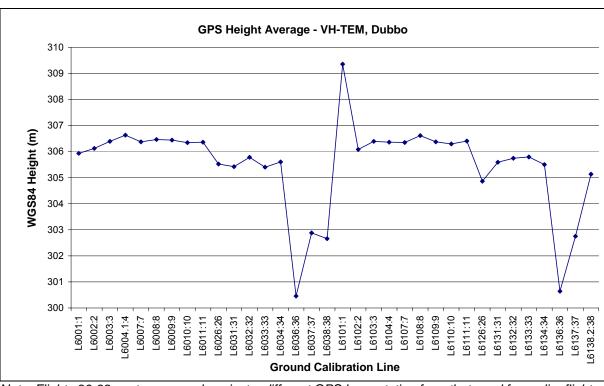


Note: Data for outlying points generally displays significant drift during line record likely indicative of GPS system continuing initialisation during ground calibration line.

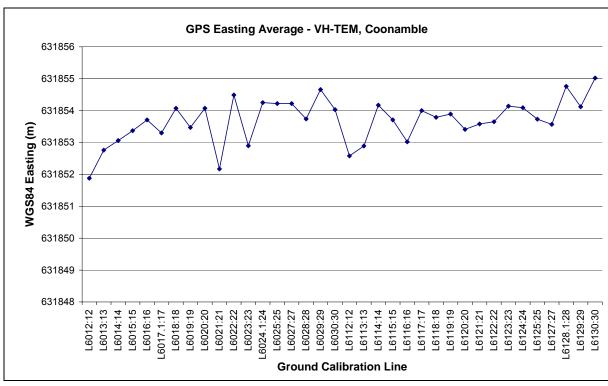


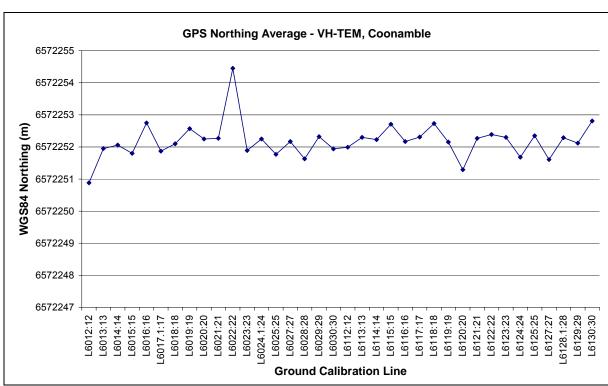
Note: Flights 26 and 31-38 parking location different from previous parking in Dubbo.

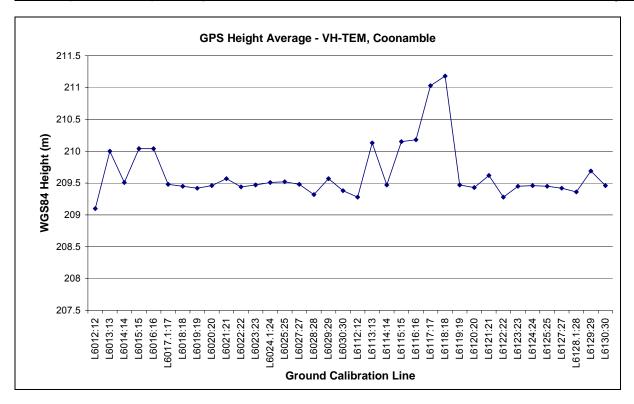




Note: Flights 36-38 post-processed against a different GPS base station from that used for earlier flights.







5. DATA PROCESSING

5.1 Field Data Processing

5.1.1 Quality Control Specifications

5.1.1.1 Navigation Tolerance

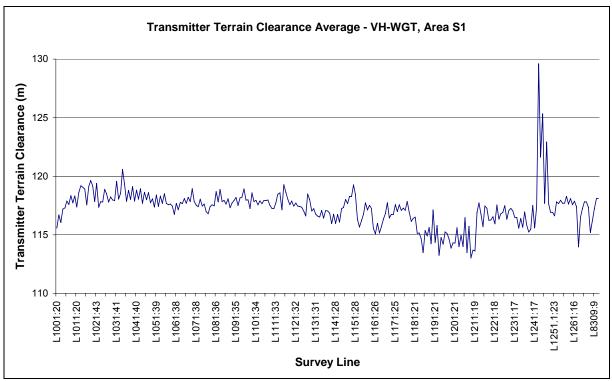
The re-flight specifications applied for the duration of the survey were:

Electronic Navigation - absence of electronic navigation data (e.g. GPS base station fails).

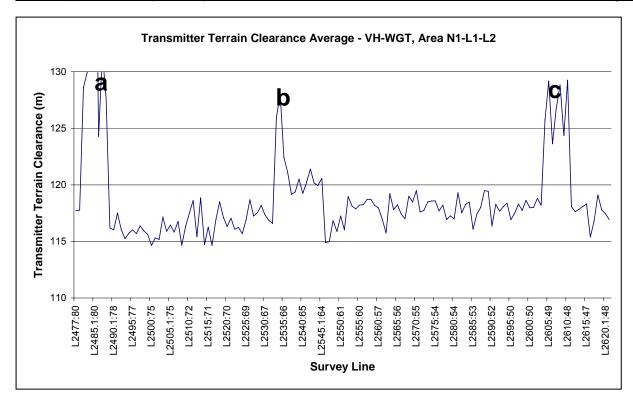
<u>Flight Path</u> – flight path deviates by more than 40 metres over a continuous distance of 1500 metres or more unless the deviation is required by civil aviation requirements.

Altitude – the average terrain clearance for any one flight line shall be within ±5 metres of the nominal aircraft terrain clearance. Portions of survey lines that are unable to be flown at the nominal survey height due to Australian Civil Aviation Safety Authority regulations of safety considerations shall be excluded from the average. Where the terrain clearance varies from that nominated by more than 20 metres over a continuous distance of two kilometres or more, a fill-in line will be flown at the Contractor's expense unless it can be reasonably demonstrated that such flying would put pilot and crew at risk.

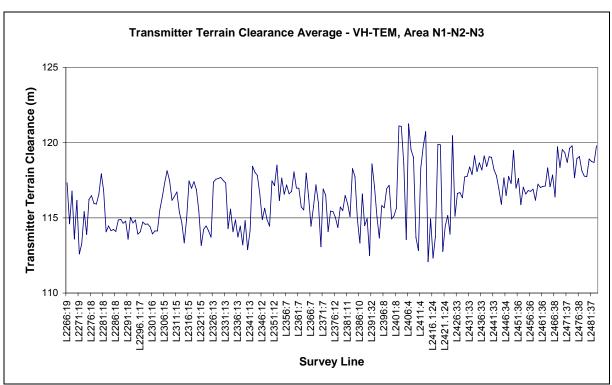
The following plots show the average transmitter ground clearance for all survey lines flown by VH-WGT and VH-TEM for this project. Some lines appear to violate the above specification for average height – comments are included below each plot.



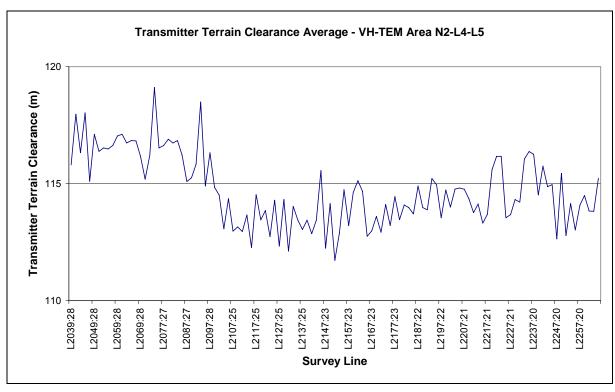
Note: Some lines in this area violate contract specifications due to rough terrain.

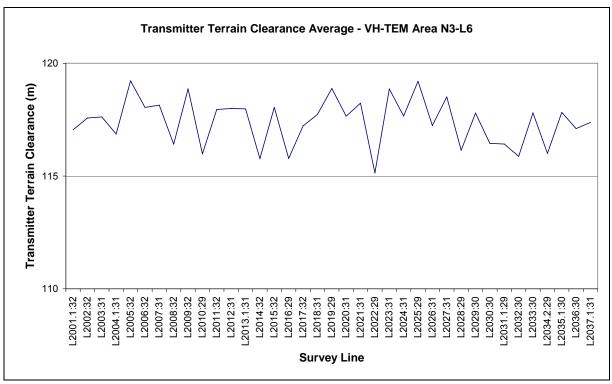


Notes from left to right: a) Biased by pilot climbing to 1500ft over Warren; b) Large spike due to pilot climbing to 1500ft over Nevertire, flat section due to a problem with pilot's altimeter display; c) Biased by pilot climbing to 1500ft over Trangie.



Note: Some lines early in survey were flown too high due to a discrepancy between pilots' instruments and recorded radar/laser altimeter values. The worst cases were reflown.





5.1.1.2 Electromagnetic Data

The quality control checks on the electromagnetic data were:

Noise – For any flight, if the standard deviation of the processed high altitude data for a window exceeds 2 times the corresponding window standard deviation specified in the table below, then that window will be deemed to be 'noisy'. If more than 25% of the windows are deemed to be noisy in either component, then that flight must be reflown at the Contractor's expense. See Appendix IV for full record of zero-line statistics.

Window	X component standard deviation (fT)	Z component standard deviation (fT)
1	0.021	0.014
2	0.019	0.010
3	0.018	0.009
4	0.017	0.009
5	0.016	0.008
6	0.015	0.008
7	0.014	0.008
8	0.013	0.007
9	0.013	0.008
10	0.016	0.009
11	0.021	0.009
12	0.014	0.007
13	0.012	0.006
14	0.009	0.004
15	0.009	0.005

Repeat lines – A number of repeat lines were flown regularly to check system repeatability. These lines were flown once every day for the first four successful production days, and once every three production days after that. Comparison plots of derived conductivity data are included as an attachment (see Appendix VIII).

Borehole calibration lines – Five specified lines were flown by one or both aircraft to coincide with existing seismic and borehole data for comparison. Plots of these lines are also included as an attachment (see Appendix VIII).

5.1.2 In-Field Data Processing

Following acquisition, multiple copies of the EM data are made onto DVDs or CDs. The EM, location, magnetic and ancillary data are then processed at the field base to the point that the quality of the data from each flight can be fully assessed. Copies of the raw and processed data are then transferred to Perth for final data processing. A more comprehensive statement of EM data processing is given in section 5.2.3.

5.2 Final Data Processing

5.2.1 Flight Path Recovery

The GPS position of the aircraft at every point along the survey line is post-processed (differentially corrected) by applying the same X, Y and Z positional changes (deviations from averaged position) as seen at the base GPS unit (see 3.2 for a description of establishing the base GPS position).

The post-processed flight path (X and Y co-ordinates) and GPS height are then checked for spikes and level shifts, and if required, edited or improved by re-running the GPS post-processing. Section 4.12 describes the GPS repeat point test we conducted on every flight to confirm the repeatability of the GPS system. No other calibration procedures are performed for the GPS.

5.2.2 Magnetics

Magnetic data were compensated for aircraft manoeuvre noise using coefficients derived from the appropriate compensation flight (see 4.7). Base station data is edited so that all significant spikes, level shifts and null data are eliminated.

A diurnal base value was then added.

Area	Base Value
All	56715 nT

A lag was applied to synchronise the magnetic data with the navigation data.

The International Geomagnetic Reference Field (IGRF) 2005 model (updated for secular variation 2006.9) was removed from the levelled total field magnetics. An IGRF base value was then added to the data.

Area	Base Value
All	56786 nT

Following this, microlevelling was applied in order to subtly level the data. The algorithm is a FAS proprietary operation used to remove the small across-line corrugations that may appear in any gridded data. The process attempts to de-corrugate the data without destroying the data's integrity. This is achieved by confining the changes to very small values and applying them as a correction to the along-line data.

5.2.3 Altimeters

Radar altimeter data are recorded by the data acquisition system (DAS) as a value in millivolts. This value is converted to metres using the relationships determined during the altimeter calibration flights. This data has a parallax applied followed by a short smoothing filter to eliminate short-wavelength system noise.

The Laser Altimeter data are recorded directly as a height in metres. As a first step all spurious values, and values of 0m were removed, followed by a routine that used local maxima and minima to remove small sharp steps & spikes, resulting from vegetation and other cultural features. The resulting channel from this process was splined and filtered, then finally the expression defined in section 4.10 was applied to correct for the changing pointing angle of the altimeter due to aircraft pitch and roll.

5.2.4 Derived Ground Elevation

Aircraft navigation whilst in survey mode is via real time differential GPS, obtained by combining broadcast differential corrections with on-board GPS measurements. Terrain clearance is measured with a laser altimeter.

The ground elevation, relative to the WGS84 spheroid used by GPS receiver units, is obtained by finding the difference between the terrain clearance (from the final processed laser altimeter) and the aircraft altitude above the ellipsoid (GPS height derived from post-processing of the DGPS data using the field base station data), and taking into account that the laser altimeter is mounted 2.4 metres below the GPS antenna.

The digital elevation model derived from this survey can be expected to have an absolute accuracy of +/- several metres in areas of low to moderate topographic relief. Sources of error include uncertainty in the height of the GPS base station, variations in the laser altimeter characteristics over ground of varying surface texture, and the finite footprint of the laser altimeter.

Following this, microlevelling was applied in order to more subtly level the data. The algorithm is a FAS proprietary operation used to remove the small across-line corrugations that may appear in any gridded data. The process attempts to de-corrugate the data without destroying the data's integrity. This is achieved by confining the changes to very small values and applying them as a correction to the along-line data.

An N-Value is subtracted to correct the final data to the Australian Height Datum (AHD).

Available spot heights were supplied by Geoscience Australia and compared to the DEM data on a grid basis. The following table (over page) summarises these spot height comparisons. The largest discrepancies occur at stations FOSTER, MINORE, EUROMBEDAH and MOUNT HARRIS which are all in high topographic gradient locations (situated on hilltops). In these high gradient areas interpolation errors are much greater than in the low gradient areas that make up the vast majority of the survey area. Otherwise, in the low gradient areas the DEM appears to be accurate to within ± 2m.

Station Name	Station Num.	Height	Easting	Northing	DTM height	Diff. (m)	Area
FROST	NSW 2113	294.7	609010.01	6418587.99	290.02	-4.68	S1
GRADGERY	NSW 2287	173.7	587369.16	6542272.48	177.06	3.36	N1/L1
NM C 114	NSW 5292	194.9	546962.10	6459701.28	195.9	1	N1/L1
NM C 115	NSW 5293	235.79	596769.12	6459286.60	237.62	1.83	N1/L1
EUROMBEDAH	NSW 2007	292.2	623812.96	6434782.92	284.23	-7.97	S1
FOSTER	NSW 2094	266.4	560144.00	6544540.75	227	-39.4	N1/L1
MOUNT HARRIS	NSW 2419	242.3	563205.54	6537353.36	237.08	-5.22	N1/L1
WARREN	NSW 6227	195.22	577698.22	6492968.27	194.57	-0.65	N1/L1
MERRINELE	NSW 3080	181.6	577307.61	6543604.34	180.37	-1.23	N1/L1
MINORE	NSW 6692	365.69	632304.81	6431551.39	352.27	-13.42	S1
PM5008	PM5008	196.13	566687.49	6478030.07	198.35	2.23	N1/L1

Note:

The accuracy of the elevation calculation is directly dependent on the accuracy of the two input parameters, laser altitude and GPS altitude. The GPS altitude value is primarily dependent on the number of available satellites. Although post-processing of GPS data will yield X and Y accuracies in the order of 0.5 metres, the accuracy of the altitude value is usually much less, but generally still within 1-2 metres. Further inaccuracies may be introduced during the interpolation and gridding process as only 1 out of every 5 points across-line is real data. Furthermore, along line obstructions may cause the pilot to veer laterally and so data interpolated between lines may vary significantly from real topography, and do not show artificial vertical obstructions.

Because of the inherent inaccuracies of this method, no guarantee is made or implied that the information displayed is a true representation of the height above sea level. Although this product may be of some use as a general reference, THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.

5.2.5 Electromagnetic Data Processing

Details of the pre-processing applied to TEMPEST data can be found in Lane et al. (2000), and are summarised below.

Calibration

High altitude pre and post flight zero line data (Section 4.4) are used to characterise the system response in the absence of any ground response. These calibration lines were acquired pre and post flight and were linearly interpolated during processing for use at individual transients during the flight.

Cleaning and Stacking

Routines to suppress sferic noise, powerline noise, VLF noise and coil motion noise (collectively termed "cleaning") and to stack the data are applied to the survey line data. Output from the stacking filter is drawn at 0.2 second intervals. A cosine shaped filter making use of 152 transients (approximately 3 sec) is used in the stacking process.

Deconvolution

The survey height stacked data are deconvolved in the frequency domain using the interpolated high altitude reference waveform, to yield a quantity that is independent of system characteristics. This procedure accounts for slow variations in the transmitted current waveform's amplitude and shape

during the flight. It also accounts for the effect of eddy currents induced in the transmitter loop and airframe. The output of the deconvolved data is the summed effect of the direct coupling between the transmitter loop and receiver coils (primary field) and the coupling between currents induced in the ground and the receiver (secondary field).

Primary Field Estimation

Since the receiver's orientation and position (relative to the transmitter) is not precisely known, the primary field cannot simply be theoretically computed and subtracted from the deconvolved data to yield the desired pure ground response. The primary field is instead estimated using knowledge of the asymptotic behaviour at the low frequency in-phase component of the deconvolved spectrum. The estimation of the primary field requires some assumptions to be made regarding the conductivity structure of the ground at depth. Once estimated the primary field is subtracted from the deconvolved data to yield the estimated pure ground response.

Transmitter-Receiver Separation Estimation

Once the primary field and coupling terms are estimated it is then possible to estimate the position of the receiver coils relative to the transmitter loop via basic dipole theory. Equations (1) and (2) define the coupling terms for an infinitesimal vertical magnetic dipole transmitter and an ideal receiver located at co-ordinates (x,z) with respect to the transmitter. The horizontal (or X) component coupling is defined by,

$$g_x = \frac{3xz}{\left(x^2 + z^2\right)^{5/2}},\tag{1}$$

and for the vertical (or Z) component data;

$$g_z = \frac{2z^2 - x^2}{\left(x^2 + z^2\right)^{5/2}} \tag{2}$$

The above equations are inverted to solve for the coil set position defined by the co-ordinates (x,z) as follows. From equations (1) and (2),

$$\frac{g_z}{g_x} = r = \frac{(2z^2 - x^2)}{3xz} \tag{3}$$

Therefore,

$$x^2 + 3rxz - 2z^2 = 0 (4)$$

Therefore,

$$x = -(3rz \pm \sqrt{9r^2z^2 + 8z^2})/2 = z(-3r \pm \sqrt{9r^2 + 8})/2 = zr_1$$
(5)

Substituting back into the expression for g_x, we get

$$g_x = \frac{3r_1}{z^3 (r_1^2 + 1)^{5/2}} \tag{6}$$

and

$$z = \left\{ \frac{3r_1}{g_x(r_1^2 + 1)^{5/2}} \right\}^{\frac{1}{3}}, \quad and \quad x = r_1 \left\{ \frac{3r_1}{g_x(r_1^2 + 1)^{5/2}} \right\}^{\frac{1}{3}}$$
 (7)

where

$$r_1 = \left\{ -3(g_z/g_x) + \sqrt{9(g_z/g_x)^2 + 8} \right\} / 2$$
 (8)

The +/- solutions collapse to a single solution due to a basic knowledge that the bird is always going to be below and behind the transmitter. Therefore equations (7) and (8) provide the necessary

calculation to convert g_x and g_z values to x and z values which define the position of the receiver with respect to the transmitter.

An estimate of transmitter-receiver separation is made for every 0.2 second sample drawn from the stacking filter. Along with other system geometry variables (either measured or assumed) the survey wide averages of the system geometry for each aircraft is shown in the table following.

Geometry Variable		VH-WGT	VH-TEM
Transmitter loop pitch	measured	2.97 deg	1.64 deg
Transmitter loop roll	measured	-0.15 deg	-0.62 deg
Transmitter loop yaw	measured	0.0 deg	0.0 deg
Transmitter loop terrain clearance	measured	118.15 m	116.00 m
Transmitter-receiver in-line horizontal separation	estimated	-114.86 m	-120.71 m
Transmitter-receiver vertical separation	estimated	-45.16 m	-39.41 m
Transmitter-receiver transverse horizontal I separation	assumed	0.0 m	0.0 m
Receiver pitch	assumed	0.0 deg	0.0 deg
Receiver roll	assumed	0.0 deg	0.0 deg
Receiver yaw	assumed	0.0 deg	0.0 deg

Transformation to B-field Response

The pure ground response data are transformed from dB/dt to B-field responses equivalent to that which would be observed for a perfect 100% duty cycle square wave waveform with a 1 A peak to peak step.

Windowing

Finally, the evenly spaced samples are binned into a number of windows.

Table of TEMPEST window information for 25Hz base frequency

Window #	Start	End		start time		centre time	
	sample	sample	samples	(s)	(s)	(s)	time (ms)
1	1	2	2	0.000007	0.000020	0.000013	0.013
2	3	4	2	0.000033	0.000047	0.000040	0.040
3	5	6	2	0.000060	0.000073	0.000067	0.067
4	7	10	4	0.000087	0.000127	0.000107	0.107
5	11	16	6	0.000140	0.000207	0.000173	0.173
6	17	26	10	0.000220	0.000340	0.000280	0.280
7	27	42	16	0.000353	0.000553	0.000453	0.453
8	43	66	24	0.000567	0.000873	0.000720	0.720
9	67	102	36	0.000887	0.001353	0.001120	1.120
10	103	158	56	0.001367	0.002100	0.001733	1.733
11	159	246	88	0.002113	0.003273	0.002693	2.693
12	247	384	138	0.003287	0.005113	0.004200	4.200
13	385	600	216	0.005127	0.007993	0.006560	6.560
14	601	930	330	0.008007	0.012393	0.010200	10.200
15	931	1500	570	0.012407	0.019993	0.016200	16.200

Geometry Corrections to EM Data

The final EM dataset includes both "non-geometry corrected" and geometry-corrected" located EM data. The non-geometry corrected EM amplitudes reflect, not only the variations in ground conductivity, but the variations in geometry of the various parts of the EM measurements (i.e. transmitter loop pitch, transmitter loop roll, transmitter loop terrain clearance, transmitter loop to receiver coil horizontal longitudinal separation, transmitter loop to receiver coil horizontal transverse separation, and transmitter loop to receiver coil vertical separation) during the survey. For example, the largest influence on the early time EM amplitude is the terrain clearance of the transmitter loop. The larger the terrain clearance, the smaller the amplitude. Later window times (larger window number) show diminished variations due to terrain clearance.

Geometry-corrected located data are produced for optimum presentation of the EM amplitude data in image format (e.g. window amplitude images, principal component analysis images derived from the window amplitudes (Green,1998b)). Between non-geometry and geometry corrected states, the ground response data undergo an approximate correction to produce data that would be measured if the system had always maintained a nominated standard (constant) geometry. A dipole-image method (Green, 1998a) is used to adjust the data to the response that would be expected at a standard terrain clearance (115m), standard transmitter loop pitch and roll (zero degrees), and a standard transmitter loop to receiver coil geometry (115m behind and 45 below the aircraft). These geometry variables have been set to their respective standard values in the geometry corrected located data. The nongeometry corrected located data file contains the measured (or estimated) geometry variables. Zero parallax is applied to transmitter loop pitch, roll, terrain clearance, X component EM and Z component EM data prior to geometry correction. Over extremely conductive ground (e.g. > 100 S conductance), the estimates for transmitter loop to receiver coil separation determined from the primary field coupling factors may be in error at the metre scale due to uncertainty in the estimation of the primary field. This will influence the accuracy of very early time window amplitude information in the geometry-corrected located data. Receiver coil pitch has a significant effect on early time Z component response and late time X component response (Green and Lin, 1996). Receiver coil roll impacts early time Z component response.

Due to a miscommunication in the field, the data from the two aircraft were not corrected to the same geometry (due to a slightly higher average airspeed, the receiver generally flies higher behind VH-TEM). This led to a large amplitude change, where the data acquired from each aircraft abutted in the field-processed dataset that was returned from the field and was delivered to GA at that time. To correct this, the first phase of the final processing was to re-geometry correct the VH-TEM data to the same standard geometry as VH-WGT (see table below) since levelling of area S1 had already commenced.

Values used to standardise transmitter height, pitch and roll and transmitter-receiver geometry

Geometry Variable	Standard Value
Transmitter loop pitch	0.0 deg
Transmitter loop roll	0.0 deg
Transmitter loop yaw	0.0 deg
Transmitter loop terrain clearance	115.0 m
Transmitter-receiver in-line horizontal separation	-115.0 m
Transmitter-receiver vertical separation	-45.0 m
Transmitter-receiver transverse horizontal separation	0.0 m
Receiver pitch	0.0 deg
Receiver roll	0.0 deg
Receiver yaw	0.0 deg

Based on the overall character of the data, and statistics of the geometry figures determined from the high-altitude zero calibration line, it was inferred that the receiver 'bird' operating with VH-TEM had some coil suspension issues (ie. the support and the way the coil-set is suspended within the bird-shell) throughout the survey. This resulted in small changes in the apparent tilt of the coil-set, and as steps (or level shifts) in the signal amplitudes of the Z-component data. Fortunately the day-to-day changes were slight, but based on observations of the geometry of all 38 flights, a system of small corrections was applied, prior to re-applying geometry corrections hence both the geometry corrected and non-geometry corrected EM data have been adjusted. The rotation corrections applied are tabulated below.

Flights	Rotation (degrees)
17,19,28,30,31	7
24,29	5
16,18,20,21,22,23,25,26,27	6
4,7,9,13,15	4
8,12	3
2	2
34	1
10,11	4.5

Once the full dataset had been corrected to the same standard geometry, limited range micro-levelling was applied to all windows for presentation purposes and to ensure the input data for CDI processing was free of striping.

5.2.6 Conductivity Depth Images (CDI)

CDI conductivity sections for TEMPEST data were calculated using EMFlow and then modified to reflect the finite depth of investigation using an in-house routine, *Sigtime*.

The Sigtime routine removes many of the spurious conductive features that appear at depth as a result of fitting long time constant exponential decays to very small amplitude features in the late times. For each observation, the time when the response falls below a signal threshold amplitude is determined. This time is transformed into a diffusion depth with reference to the conductivity values determined for that observation. Anomalous conductivity values below this depth are replaced by background values or set to undefined, reflecting the uncertainty in their origin. The settings and options applied are indicated in the appropriate header files for Sigtime output. This procedure is different to that which would be obtained by filtering conductivity values using either a constant time or constant depth across the entire line.

The "final" data for each area were input into version 5.10 of EMFlow to calculate Conductivity Depth Images (CDI). Conductivity values were calculated at each point then run through *Sigtime*.

EMFlow was developed within the CRC-AMET through AMIRA research projects (Macnae et al, 1998, Stolz and Macnae, 1998). The software has been commercialised by Encom Technology Pty Ltd. Examples of TEMPEST conductivity data can be seen in Lane et al. (2000), Lane et al. (1999), and Lane and Pracillio (2000).

Conductivity values were calculated to a depth of 200m below surface at each point, using a depth increment of 5m and a conductivity range of 1-1000mS/m.

5.2.6.1 Factors and Corrections

Geometric Factor

The geometric factor gives the ratio of the strength of the primary field coupling between the transmitter loop and the receiver coil at each observation relative to the coupling observed at high altitude during acquisition of reference waveform data. Variations in this factor indicate a change in the attitude and/or relative separation of the transmitter loop and the receiver coil.

Transmitter-Receiver Geometry

Transmitter-to-receiver geometry values for each observation are derived from the high altitude reference waveforms and knowledge of the system characteristics. These data are available in the located data (see section 5.2.4 for "standardised" values)

GPS Antenna, Laser Altimeter and Transmitter Loop Offset Corrections

For VH-TEM the transmitter loop was mounted 0.1m above the GPS antenna, whilst for VH-WGT it was mounted 0.25m below the GPS antenna. The GPS antenna is 2.3m above the belly of the aircraft on VH-TEM, and 3.3m above the belly on VH-WGT. For both aircraft the laser altimeter sensor is mounted in the belly. Therefore a total of 2.4m and 3.05m was added to the laser altimeter data for VH-TEM and VH-WGT, respectively, to determine the transmitter loop height above the ground.

Transmitter Loop Pitch and Roll Correction

Measured vertical gyro aircraft pitch and roll attitude measurements are converted to transmitter loop pitch and roll by adding -0.9 degrees for pitch and -0.1 degrees for roll, for VH-TEM, and -0.45 for pitch and 0.6 degrees for roll, for VH-WGT. Nose up is positive for pitch, and left wing up is positive for roll.

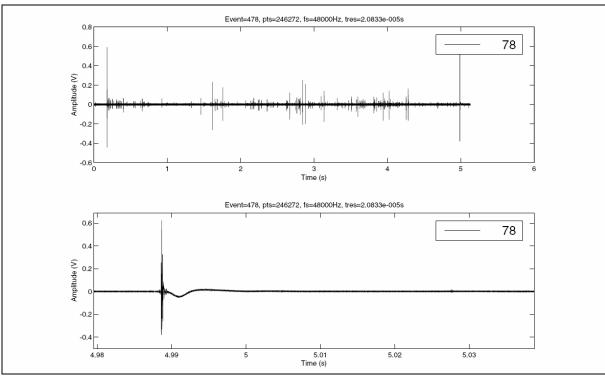
5.2.6.2 Primary Sources of EM Noise

A number of "monitor" values are calculated during processing to assist with interpretation. They generally represent quantities that have been removed as far as is practical from the data, but may still be present in trace amounts. These are more significant for interpretation of discrete conductors than for general mapping applications.

Sferic Monitor

Sferics are the electromagnetic signals associated with lightning activity. These signals travel large distances around the Earth. Background levels of sferics are present at all times from lightning activity in tropical areas of the world (eg tropical parts of Asia, South America and Africa). Additional higher amplitude signals are produced by "local" lightning activity (ie at distances of kilometres to hundreds of kilometres).

The sferic monitor is the sum of the absolute differences brought about by the sferic filter operations, summed over 0.2 second intervals, normalised by the receiver effective area. It is given in units of uV/sq.m/0.2s. Many sferics have a characteristic form that is well illustrated by figure 2 in Garner and Thiel (2000), over page. The high frequency, initial part of a sferic event can be detected and filtered more easily than the later, low frequency portion. The sferic monitor indicates where at least the high frequency portion of a sferic has been successfully removed, but it is quite possible that lower frequency elements of the sferic event may have eluded detection, passing through to the window amplitude data. Thus, discrete anomalies coincident with sferic activity as indicated by the sferic monitor should be down-weighted relative to features clear of any sign of sferic activity.



An electric field time-series sampled at 48 kilo samples per second using MIMDAS. The top panel exhibits the entire event, while the lower panel depicts a close up view of an individual sferic from that event. The sample rate and resolution in time are denoted by fs and tres, respectively. (Garner & Thiel, 2000.)

Low Frequency Monitor

The Low Frequency Monitor (LFM) makes use of amplitudes at frequencies below the base frequency which are present in the streamed data to estimate the amplitude of coil motion noise at the base frequency in log10(pV/sqrt(Hz)/sq.m). This noise is primarily induced by the coil's motion through the earth's magnetic field – a change in coupling between the receiver coil and the ambient magnetic field will induce a voltage in the receiver coil. This noise is referred to as coil motion or Earth field noise. Receiver coils in the towed bird are suspended in a fashion that attempts to keep this noise below the noise floor at frequencies equal to and above the base frequency of the system. Severe turbulence, however, can result in 'coil knock events' that introduce noise into the processed data. Note that the LFM will also respond to sferic events with an appreciable low frequency (sub-base frequency)

component. This situation can be inferred when both the LFM and sferic monitors show a discrete kick.

The coil motion noise below the base frequency is rejected through the use of tapered stacking, but the coil motion noise at the base frequency itself is not easily removed.

Powerline Monitor

The powerline monitor gives the amplitude of the received signal at the powerline frequency (50 or 60 Hz) in log10(pV/sqrt(Hz)/sq.m). Careful selection of the base frequency (such that the powerline frequency is an even harmonic of the base frequency) and tapered stacking combine to strongly attenuate powerline signals. When passing directly over a powerline, the rapid lateral variations in the strength and direction of the magnetic fields associated with the powerline can result in imperfect cancellation of the powerline response during stacking. Some powerline-related interference can manifest itself in a form that is similar to the response of a discrete conductor. The exact form of the monitor profile over a powerline depends on the line direction, powerline direction, powerline current, and receiver component, but the monitor will show a general increase in amplitude approaching the powerline.

Grids (or images) of the powerline monitor reveal the location of the transmission lines. Note that the X component (horizontal receiver coil axis parallel with the flight line direction) does not register any response from powerlines parallel to the flight line direction since the magnetic fields associated with powerlines only vary in a direction perpendicular to the powerline. Note also that the Z component (vertical receiver coil axis) shows a narrow low directly over the powerline where the magnetic fields are purely horizontal.

Very Low Frequency Monitors

Wide area VLF communication signals in the 15 to 25 kHz frequency band are monitored by the TEMPEST system. In the Australian region, signals at 18.2 kHz, 19.8 kHz, 21.4 kHz and 22.2 kHz are monitored as the amplitude of the received signal at these frequencies in log10(pV/sqrt(Hz)/sq.m). The strongest signal comes from North West Cape (19.8 kHz). The signal at 18.2 kHz is often observed to pulse in a regular sequence. These strong narrow band signals have some impact on the high frequency response of the system, but they are strongly attenuated by selection of the base frequency and tapered stacking. The VLF transmissions are strongest in amplitude, in the horizontal direction at right angles to the direction to the VLF transmitter. This directional dependence enables the VLF monitors to be used to indicate the receiver coil attitude.

5.2.6.3 Other Sources of EM Noise

Man-made periodic discharges

If an image of the Z component sferic monitor shows the presence of spatially coherent events, then pulsed cultural interference would be strongly suspected. Since sferic signals are much stronger in the horizontal plane than in the vertical plane, few sferics of significant amplitude are recorded in Z component data. In contrast, evidence of cultural interference is generally swamped by true sferics in X component sferic monitor images.

Electric fences are the most common source of pulsed cultural interference. Periodic discharges (eg every second or so) into a large wire loop (fence) produce very large spikes in raw data. These are attenuated to a large degree by the sferic filter, but a residual artefact can still be present in the processed data.

Grounded metal objects

Grounded extensive metal objects such as pipelines and rail lines can qualify as conductors and may produce a response that is visible in processed data. Grounded metal objects produce a response similar to shallow, highly conductive, steeply dipping conductors. These objects can sometimes be identified from good quality topographic maps, from aerial photographs, by viewing the tracking video, from their unusual spatial distribution (ie often a series of linear segments) and in some circumstances from their effect on the powerline monitor. A powerline running close to a long metal object will induce a 50 Hz response in the object.

5.2.7 System Specifications for Modelling TEMPEST Data

Differences between the specifications for the acquisition system, and those of the virtual system for which processed results are given, must be kept in mind when forward modelling, transforming or inverting TEMPEST data.

Acquisition is carried out with a 50% duty cycle square transmitter current waveform and dB/dt sensors.

During processing, TEMPEST EM data are transformed to the response that would be obtained with a B-field sensor for a 100% duty cycle square waveform at the base frequency, involving a 1A change in current (from -0.5A to +0.5A to -0.5A) in a 1sq.m transmitter. Data are given in units of femtoTesla (fT = 10^{-15} Tesla). It is this configuration, rather than the actual acquisition configuration, which must be specified when modelling fully pre-processed TEMPEST data.

Window timing information is given above (see section 5.2.5).

The geometry-corrected EM data have been standardised through an approximate transformation to a standard transmitter loop terrain clearance, transmitter loop pitch and roll of zero degrees, and a fixed transmitter loop to receiver coil geometry (roughly equal to the average estimated geometry values). Transmitter loop pitch, transmitter loop roll and transmitter loop terrain clearance values for each observation have been modified to reflect the standard values. Hence, the standardised geometry values should be used if modelling with the geometry- corrected X- and Z-component amplitude data (see table section 5.2.5).

5.2.7.1 Parallax

The located data files utilise the following parallax values :-

- magnetics (TEM) = 0.6 fiducials (3 observations from the zero parallax position),
- magnetics (WGT) = 0.4 fiducials (2 observations from the zero parallax position),
- radar altimeter = 0.6 fiducials (3 observations from the zero parallax position),
- EM X-component = 0.2 fiducials (1 observation from the zero parallax position),
- EM Z-component = 1.4 fiducials (7 observations from the zero parallax position),

These EM parallax values are optimised for aligning, from line to line, the EM response amplitudes for horizontal or broad steeply dipping conductors, which account for the majority of responses in regolith-dominated terrains such as this.

For optimum gridded display of the response for discrete vertical or narrow conductors, the following EM parallax values are appropriate:-

- EM X-component = 1.8 fiducials (9 observations from the zero parallax position, or 8 observations from the "horizontal" parallax position),
- EM Z-component = 0.6 fiducials (3 observations from the zero parallax position, or -4 observations from the "horizontal" parallax position).

(NB Positive parallax values are defined in this case as shifting the indicated quantity back along line to smaller fiducial values. Location information remains in the zero parallax state.)

The final corrected and levelled data were gridded using a bi-directional spline interpolation (with no anti-aliasing) algorithm with a square cell size of 60m.

5.2.8 Delivered Products

Appendix VII contains a complete list of all data supplied digitally.

Digital located data in ASCII format was produced containing the non-geometry corrected and geometry corrected X and Z EM data as well as magnetics, digital elevation and derived conductivity data. The header file can be found in Appendix IV.

Grids (in ER Mapper format) of selected conductivity slices, total magnetic field and digital elevation were also produced.

Acquisition and processing report in hardcopy and digital format.

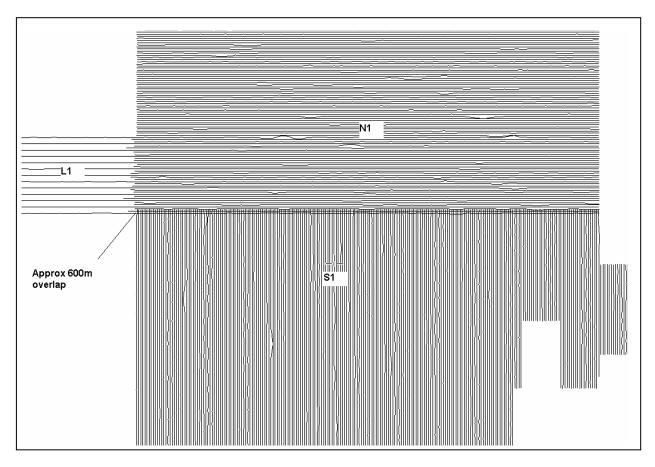
5.3 Data Analysis and Comparisons

The survey contained two variables that could affect the continuity of the results across the dataset. These were the perpendicular line paths between the northern and southern areas, and the fact that multiple aircraft were utilised for the survey. Boundaries where the differences occur were examined and a summary of the observations is documented below.

5.3.1 Perpendicular line paths

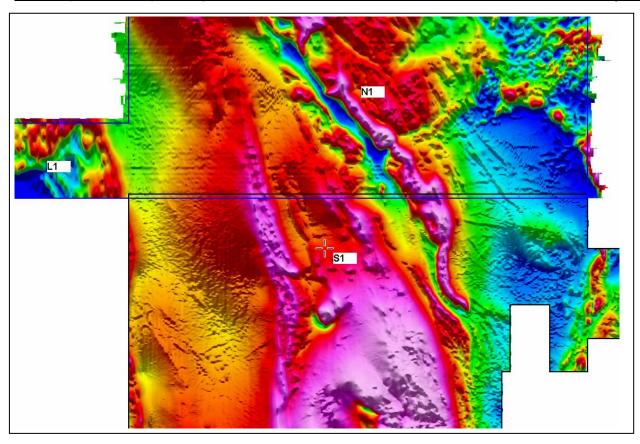
Final data was processed to minimise the difference between the two blocks flown on different headings (E/W for blocks L1/N1 and N/S for block S1). Lines flown on either side of this join were acquired by a single aircraft (VH-WGT) which helped to minimise differences and resulted in a high level of consistency between datasets.

The following image shows the overlap area between area L1/N1 and S1. The overlap is approximately 600m wide.

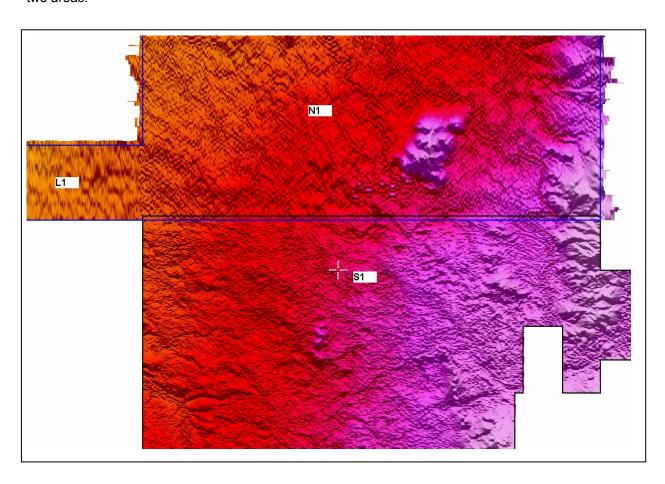


To check the continuity of the results across this overlap, grids of the separate survey components TMI, DEM and a sample of the interval conductivity grids were examined. In all cases the sun shade is from the north, which will highlight any level shifts across the join. In all grids there is a slight textural change between the E/W and N/S flown lines. This is purely an artefact of the gridding with respect to the sunshade applied to it.

Magnetics - The image below shows the final merged TMI grid. The magnetic field is not affected by geometry of the aircraft with respect to the local geology and the same diurnal and IGRF base values were applied to the data. This resulted in a consistent join between the two areas.



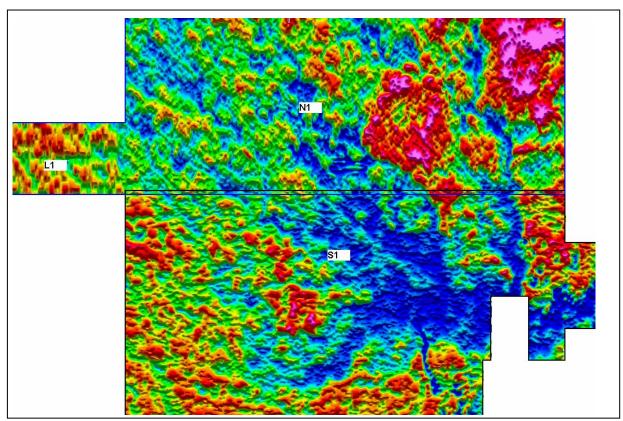
Digital Elevation Model - The image below shows the final merged DEM grid. The GPS data collected by the aircraft is absolute if operating correctly. The radar altimeter data also came from a single aircraft using the same calibrated conversion factors. The result is a smooth join across the two areas.



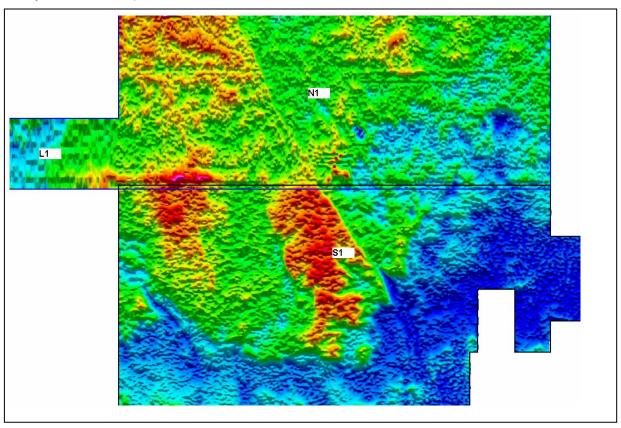
Interval conductivities

Conductance and depth values derived from EMFlow are used to calculate specific interval conductivities. An example from a near surface and deeper interval conductivity are examined.

Interval Conductivity (5m-10m) - The image below shows the final merged interval conductivity grid, for the depth range 5m to 10m. As we can see there is a consistent join between the two areas.



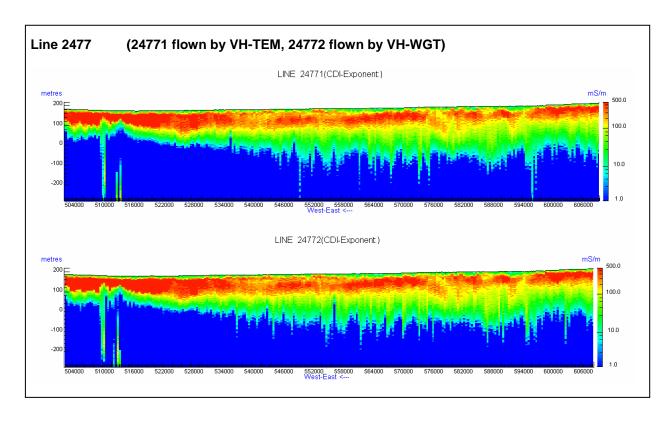
Interval Conductivity (60m-100m) - The image below shows the final merged interval conductivity grid, for the depth range 60m to 100m. There is a slight level shift to the north of the cross-over area, however this is a shift within area L1/N1 itself, and not a shift between the two areas. The join itself is acceptable.

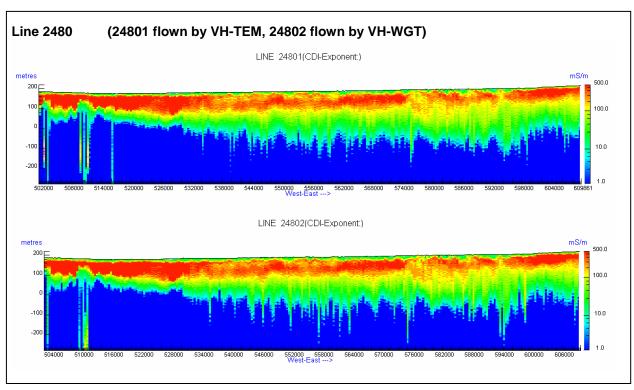


5.3.2 Multiple aircraft

As described in Section 2, there were two different survey aircraft involved in the acquisition, VH-TEM and VH-WGT. To test the consistency and repeatability of the data collected from each, we created CDI data for two lines, 2477 and 2480, that were flown by both aircraft. The EMFLOW output for these are shown on the next page.

In general, a high-level of consistency is evident between the CDI's derived from both aircraft, in terms of both conductivity and depth distribution. This consistency is further demonstrated in Appendix VIII which contains CDI sections of the repeat and seismic / borehole lines that were flown by both aircraft.





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APPENDIX I – Weekly Acquisition Reports VH-WGT

Week Commencing: Monday 11-Dec-06 Aircraft: VH-WGT Operators: Nathan Alexander Pilots: Grant Hamilton, Troy Wilhelmi, Mark Harradence, Til Ribarich

Job Number: 1835 Base: Dubbo Data Proc: Kah Tho Lee Techs: Michael Wirski, Craig Lyra
Area S1 Total km: 34065.0 Country: Australia Crew Leader: Scott Miller Client: BRS, Geo Australia

1835 Total Area KM: 34065 Area Name: S1 Accom: Cattleman's Country Contact #: 0429 109 240 / 02 6884 5222

Flight Crew M/R Oil Fuel This Flight To Date Standby Comments Plt(s) T/O Land Hrs Added Op R Prod Refly Scrub Prod Refly (0, 0.5, 1)Number Monday 11-Dec-06 Weather: Strong Cool S winds +24C Remarks: Replaced tow cable and standardised wiring to match. Julian 10-Dec-00 Hours Today 0.0 0.0 0.0 0.0 0.0 0.0 Safety Meeting: Tuesday 12-Dec-06 test SM/NA 5:55 6:45 0.8 400 Weather: Cool morning S Winds 15kts, +20C, Dubbo NE winds +32C 9:33 12:21 2.8 GH SM/NA Remarks: Quick Test flight for Tow cable then Mobilised to Dubbo, Julian 346 Mark Harradence, Troy Wilhelmi & Til Ribarich arrive on site at 20:20 3.6 0.0 0.0 0.0 0.0 Hours Today 0.0 Safety Meeting: Wednesday Weather: NE winds 15kts +34C 13-Dec-06 799 Remarks: Set up base mags, Base GPS and liaise with Airport Manager for Julian permission to park aircraft in suitable location 347 Hours Today 0.0 0.0 0.0 0.0 0.0 0.0 Safety Meeting: Day Thursday 14-Dec-06 GH/TR SM/NA 8:43 10:07 1.4 900 Weather: NE winds 5kts +30C TRAINING TW/TR 11:34 13:07 1.6 600 Remarks: Liaised with Client and met with CMA. Julian TRAINING TW/TR 14:34 15:33 1.0 Training fliight M.Harradence 3.9 0.0 Hours Today 0.0 0.0 0.0 0.0 Day Safety Meeting: Friday 6:43 7:05 0.4 15-Dec-06 TW/GH NA Weather: +22C NE winds; Midday Winds 15kts +28C 2 799 MH/TR TR 8:54 12:29 3.6 Training Remarks: Test flight in morning to check LIDAR data. Liased with Office for TRAINING MH/TR/TW 21:34 21:55 0.4 Julian 349 assistance. Micheal Wirski & Craig Lyra to help. Night flying for pilots Hours Today 4.3 0.0 0.0 0.0 0.0 0.0 Safety Meeting: Day Saturday 16-Dec-06 TW/GH NA/MW 17:39 18:33 0.9 401 Weather: +20C NE winds 20kts; Midday Winds 25kts +26C 3 TRAINING MH/TR NA 11:55 12:17 0.4 Remarks: Michael Wirski & Craig Lyra arrive on site. Work on LIDAR Julian 350 Test flights of LIDAR with new software. 0.0 0.0 Day Hours Today 1.3 0.0 0.0 0.0 Safety Meeting: Sunday 17-Dec-06 MH/TR NA/CL 0.8 Weather: +20C NE winds 20kts; Midday Winds 25kts +26C 4 SM/MW MH/TR Remarks: Test flight in morning to check LIDAR data. Craig & Michael re writing Training MH/TR MW/CL Julian 351 software. 0.8 0.0 0.0 0.0 0.0 0.0 Hours Today Safety Meeting: **Total Job Hours** 13.9 Weekly Totals 13.9 0 0 3899 0.0 0.0 0.0 0.0 7887.0 **Total Aircraft Hours** 280 0.0 Aircraft Hrs at Ltrs/Hr Total Standby Hours to Next Periodic 155.7 Running Ava 50 7873.1 0.0 km/dav % Complete Seismic Line start of job 8042.7 Anticipated Hours Next week 13.9 0.0 km/hr Area North Next service km Remaining 34065.0 km 16015

Area	Commencing: Job Number: S1 Total km: otal Area KM:	1835	18-Dec	-06	С	Aircraft: Base: ountry: Name:	Dubbo Austra)			vata Proc: v Leader:	Nathan A Kah Tho Mark Har Cattlema	Lee	v/	Techs: Client:	Michael W BRS, Geo	nilton, Troy Wilhelmi, Mark Harradence, Til Ribarich irski, Craig Lyra Australia 240 / 02 6884 5222
	Date	Flight	Cre	ow.		ime	M/R	0	il	Fuel		Flight	iro odana		Date		Comments
'	Date	Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	oonments
Monday	18-Dec-06						0.0										Weather:
							0.0										Remarks: Work On Software for LIDAR
Julian	352						0.0										Scott Miller back to Sydney for Family emergency. Mark Harradence Crew Leader
Day	8				Hours	Today	0.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Tuesday	19-Dec-06	Training	ИН?TR/TV	٧		ļ	1.8										Weather:
							0.0										Remarks: Software trials on the ground, rewired LIDAR cable
Julian	353					<u> </u>	0.0										
Day	9			1	Hours	Today	1.8				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Wednesday	y 20-Dec-06				1	-	0.0										Weather:
Julian	054				1		0.0										Remarks:Testing of LIDAR software and relaibility Clean aircraft and pack up fo equipment for pending departures 21/22DEC
	354 10				Hours	Today	0.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Day Thursday			MH	MW	Hours	Touay	_				0.0	0.0	0.0	0.0	0.0		Weather:
Thursday	21-Dec-06		MH	MW			0.5 0.5										Remarks: Ferry to Naromine, for Opening of project
Julian	355		IVII	IVIVV		1	0.5										Other crew demob for Home for Xmas
Day	11			!	Hours	Today	1.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Friday	22-Dec-06		MH	MW	7:50	9:00	1.2				0.0	0.0	0.0	0.0	0.0		Weather:
,	22 200 00				7.00	0.00	0.0										Remarks: Ferry Aircraft to Bankstown for service in January
Julian	356						0.0										Mark and Michael home for Xmas
Day	12			1	Hours	Today	1.2				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Saturday	23-Dec-06						0.0										Weather:
							0.0										Remarks:
Julian	357						0.0										
Day	13				Hours	Today	0.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Sunday	24-Dec-06						0.0										Weather:
							0.0										Remarks:
Julian	358						0.0										
Day	14					Today	0.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
	tal Job Hours	17.9		Weekly			4.0		0	0	0.0	0.0	0.0]		0.0	
Aircraft Hrs				Aircraft			7891.0	l .	rs/Hr		0.0	l /-l			tal Standby		
start of job		7873.1 Hours to Ne. 8042.7 Anticipated Hours					151.7		Kunnı	ng Avg		km/day			Complete		
Next service	ext service 8042.7 Anticipated Hours Survey Equipment Problems:						8.9	l			0.0	km/hr		кm	Remaining	34065.0	
Surve	y ⊑quipment i	-robiems:															_

Week Commencing: Monday 8-Jan-07 Job Number: 1835 Area S1 Total km: 34065 1835 Total Area KM: 34065 Date Flight Crew					Base: ountry:	VH-W Dubbo Austra S1)		D	ata Proc: v Leader:	Scott Mille Matt Law Scott Mille Talarook	ence, Nad er	lir Halim	Client:	Micheal W BRS, Geo 0429 109	
		Cre			me	M/R	Oi		Fuel		Flight		То	Date		Comments
	Number	Plt(s)	Ор	T/O	Land	Hrs	L	R A	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday 8-Jan-07	TEST	GH		16:45	17:50	1.8							,			Weather: Remarks: Test flight for engine change only
Julian 8						0.0										
Day 29				Hours	Today	1.8				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Tuesday 9-Jan-07	Ferry	GH	MW	9:54	11:13	1.3										Weather:
						0.0										Remarks: Ferry Aircraft to Dubbo for further engine work as Bankstown
Julian 9						0.0										was too restrictive for flight tests
Day 30				Hours	Today	1.3				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Wednesday 10-Jan-07	TEST	GH	GS	7:02	7:32	0.5										Weather: Warm day, NW winds +38C
	TEST	GH	GS	16:48	17:19	0.5										Remarks: Engine test flight only
Julian 10						0.0										
Day 31				Hours	Today	1.0				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Thursday 11-Jan-07	TEST	GH/TR	MW	9:52	10:20	0.5							i			Weather: Warm Day NW winds +39C
						0.0										Remarks: Engine test flight only
Julian 11						0.0										Survey equipment will not work in hot daily temperatures system locks up
Day 32					Today	0.5				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Friday 12-Jan-07	TEST	GH/TR	AM	14:38	15:03	0.9							,			Weather: Very Hot day +42C Westerly winds
						0.0										Remarks: Engine test flight only
Julian 12						0.0										Survey equipment will not work in hot daily temperatures system locks up
Day 33				Hours	Today	0.9				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Saturday 13-Jan-07						0.0										Weather: Very Hot day +42C
1						0.0							,			Remarks:
Julian 13					- -	0.0				0.0	0.0	0.0	0.0	0.0		Survey equipment will not work in hot daily temperatures system locks up
Day 34	TEOT	TD/OLL	B 41/47	Hours	<u> </u>	0.0		-		0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Sunday 14-Jan-07	TEST	TR/GH	MW	8:32	8:58	0.4		-+					,			Weather: Warm Day NE winds +35C
Iulian 14	TEST	TR/GH		15:18	15:45	0.5							i			Remarks: Engine test flight only
Julian 14				Haura	Today	0.9				0.0	0.0	0.0	0.0	0.0		Relocated aircraft due to bushfire waterbombing using previous facilities
Day 35 Total Job Hours	24.3	,	Weekly	_		6.4	0	0	0	0.0		0.0	0.0	0.0	0.0	Safety Meeting:
Aircraft Hrs at	24.3		vveekiy Aircraft			7896.5		s/Hr	0	0.0	0.0	0.0	To	tal Standby	0.0	
start of job 7873.1		Hours to				146.2		Runnin		0.0	km/day			6 Complete	0.0	
Next service 8042.7		ated Hou				4.7		NUI II III I	y Avy		km/hr			Remaining		
INCAL SCIVICE 0042.1	Anticip	ateu i 10t	uio ivex	r MCGK		4.7	l			0.0	KITI/TH		MIII	remaining	J 4 005.0	•

Jo Area S	mmencing: b Number: I Total km: I Area KM:	1835				Base:)		D	ata Proc: v Leader:	Scott Mille Matt Law Scott Mille Talarook	rence, Nac er		Client:		Australia 240 / 02 6884 5222
Da	te	Flight Number	Cre Plt(s)	ow Op	Ti T/O	me Land	M/R Hrs	Oi	il R	Fuel Added	This Prod	Flight Refly	Scrub	To I	Date Refly	Standby (0, 0.5, 1)	Comments
Monday Julian	15-Jan-07	TEST	GH/TR	MW	6:45	7:45	1.0		K	Added	Fiod	Relly	Scrub	Piou	Relly	(0, 0.3, 1)	Weather: Strong Easterly wind 15-20 Kts Cool AM +20C Midday +35C Remarks: Test of LIDAR WGT now located near RFDS due to emergency fire bombing program
Day	36				Hours	Today	1.0				0.0	0.0	0.0	0.0	0.0	, ·	Safety Meeting:
Tuesday	16-Jan-07	6 7	TR/GH TR/GH	MW			0.0										Weather: Strong Easterly wind 15-20 Kts Cool AM +20C Midday +35C Remarks: Test of LIDAR over water
Julian	16	·					0.0										Second flight LIDAR Stacks over airport
Day	37				Hours	Today	3.4				0.0	0.0	0.0	0.0	0.0		Safety Meeting:
Wednesday	17-Jan-07	8	TR/GH	MW			2.1				64.5		25.8				Weather: North East winds 10kts AM 20C, PM 36C Remarks: Production
Julian Day	17 38				Hours	Today	2.1				64.5	0.0	25.8	38.7	0.0	,	Safety Meeting:
Thursday	18-Jan-07	9	TR/GH	SM	6:50	9:15	2.4				04.0	0.0	20.0	00.1	0.0		Weather:North East Winds 15-20kts AM +25C PM +38C
Julian	18						0.0										Remarks: Seismic lines and reflight of 400 foot ptiches and rolls
Day	39				Hours	Today	2.4				0.0	0.0	0.0	38.7	0.0		Safety Meeting:
Friday	19-Jan-07	10 11	TR/GH GH	SM SM			0.0										Weather:Hot Nrtherly winds midday +38C Remarks: Flights to fix low Z problems
Julian	19 40				Hours	Today	0.0 2.6				0.0	0.0	0.0	38.7	0.0	,	Safety Meeting:
Day Saturday	20-Jan-07				Hours	Touay	0.0				0.0	0.0	0.0	30.7	0.0		Weather: Strong Winds 25-30kts +41C
Julian	20-3411-07						0.0										Remarks: PDO work on "Matilda"
Day	41				Hours	Today	0.0				0.0	0.0	0.0	38.7	0.0	·	Safety Meeting:
Sunday	21-Jan-07	12	GH/TR	SM			1.4										Weather: Strong Westerly winds 13-25kts AM +28C PM +40C Remarks: Test flight resolved Z problems and LIDAR drop outs caused by TX
Julian	21						0.0										off.
Day	42					Today	1.4				0.0	0.0	0.0	38.7	0.0	,	Safety Meeting: Delayed until crew changes completed.
Aircraft Hrs at start of job Next service	7873.1 8042.7 Equipment F	Anticip	Weekly Aircraft Next P urs Nex	Hours eriodic		12.9 7909.4 133.3 6.1	Ltr	0 rs/Hr Runni	0 0 ing Avg		0.0 km/day km/hr	25.8	%	al Standby Complete Remaining	0.1		

Jo Area S	mmencing: b Number: Total km: I Area KM:	1835				Base: ountry:	VH-W Dubbo Austra S1)			w Leader:	Matt Law Scott Mill	rence, Nac	dir Halim	Client:	Micheal W BRS, Geo	
Da	te	Flight	Cre	ew		me	M/R	0	il	Fuel	This	Flight			Date	-	Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	22-Jan-07	13	GH/TR	SM	7:07	8:29	1.4			501				1			Weather: Slight Southerly 3kts +18C AM +35C Midday
		14	GH/TR	SM			0.5										Remarks: Flew seismic lines, errors in Lidar
Julian	22	15	GH	SM	20:20		0.4				0.0	0.0		00.7	0.0	ł	Subsequent flights for LIDAR problem. Final flight landed at 2045
Day	43				Hours	Today	2.3				0.0	0.0	0.0	38.7	0.0		Could not work on EMPDAS due to heat failures. (Crashes at > +35C)
Tuesday	23-Jan-07	TEST	TR/GH	SM/MW			0.5			850							Weather: South Easterly breeze.
lulian	22						0.0										Remarks: Test flights of LIDAR, assumed fixed at this stage.
Julian	23 44				Hours	Today	0.5				0.0	0.0	0.0	38.7	0.0	1	LIDAR mounted into shock mount as per specifications. Safety Meeting: Nil due to long work hours
Day Wednesday	- ' '	16	TR/GH	N 4\A/		10:08				220		0.0		30.1	0.0		
wednesday	24-Jan-07	10	TR/GH	MW	7:00	10.06	3.1			220 1150	154.8		12.9				Weather: Slight Easterly breeze 3 kts +23C AM +36C Midday Remarks: Production flight with no LIDAR problems. 2 lines flown short,
Julian	24						0.0			1150							due to checks of LIDAR.
Day	45				Hours	Today	3.1				154.8	0.0	12.9	180.6	0.0	1	Safety Meeting:
Thursday	25-Jan-07	17	TR/GH	MW	7:57	11:29	3.5			1129	335.4	0.0	12.9	100.0	0.0		Weather: +23C AM Slight Easterly Breeze, 6 Kts. +35C Midday
,	20 00 07				1.01	111.20	0.0			20	000.1		12.0	i			Remarks: Delay of flight as LIDAR output error message in Laptop Data stream
Julian	25						0.0							i			(Using Hyperterminal). Changed to +12V. No problems
Day	46			•	Hours	Today	3.5				335.4	0.0	12.9	503.1	0.0	Ī	Safety Meeting: Nil due to long work hours
Friday	26-Jan-07	18	TR/GH	SM	7:07	10:34	3.5			1160	332.4				•		Weather: Sout Easterly Breeze 6Kts. +16C AM +34C midday
							0.0							1			Remarks: Production flight. Still getting PDAS reboots in flight for no reason
Julian	26						0.0							Ī			Waiting for Cable to build new LIDAR cable. Temp on floor.
Day	47				Hours	Today	3.5				332.4	0.0	0.0	835.5	0.0		Safety Meeting: Nil due to long work hours
Saturday	27-Jan-07						0.0										Weather: Strong Easterly breeze 15-20Kts
							0.0										Remarks:PDO no flying
Julian	27						0.0									<u> </u>	
Day	48					Today	0.0				0.0	0.0	0.0	835.5	0.0		Safety Meeting: Nil due to long work hours
Sunday	28-Jan-07	19	TR/GH	SM	6:23	9:24	3.0			1062	245.4	12.9		1			Weather: Southerly change winds 7 Kts +14C AM +29C Midday
							0.0							1			Remarks: Production flight with repaet lines. PDAS reboot still occuring
Julian	28				L	<u> </u>	0.0				0.45.4	40.0	2.2	1005.5	/	1	Attempted to swap PNAV but was supplied with wrong one.
Day	49	F0. 4		\A/ I-'		Today	3.0			0070	245.4	12.9	0.0	1093.8	12.9		Safety Meeting: Nil due to long work hours
I otal Aircraft Hrs at	Job Hours	53.1		Weekly Aircraft			15.9 7925.3		rs/Hr	6072 382	1068.0	12.9	25.8		tal Standby	0.0	-
	7873.1						117.4			ing Avg	152.6	km/day			tal Standby 6 Complete		.1
	ext service 7873.1 Hours to Ne. 8042.7 Anticipated Hours						7.5		ixuiiii	ing Avg		km/hr			Remaining		
	quipment F		uis ivex	ı week		1.5	J			01.2	KIII/III		KIII	rvennaming	32811.2	•	
Survey	quipment	- robierils:	1														_

	eek Commencing: Monday 29-Jan Job Number: 1835				Α		VH-W					Scott Mill					nilton, Til Ribarich	
					_		Dubbo					Steve Ca				Micheal W		
	Total km:	34065				,	Austra	alia		Cre		Scott Mill				BRS, Geo		
1835 Tota	l Area KM:	34065		0	Area	Name:	S1				Accom:	Talarook	Motor Inn		Contact #:	0429 109	240 / 02 6884 5222	
Da	te	Flight	Cre			me	M/R	C	il	Fuel		Flight			Date		Comments	
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)		
Monday	29-Jan-07	20	GH/TR	SM	6:26	9:54	3.5			1160	438.9						Weather:S;ight Southerly brreze 3 kts +13C AM +29C Midday	
							0.0										Remarks: Production flight. PDAS reboot in flight still occuring	
Julian	29						0.0											
Day	50				Hours	Today	3.5				438.9	0.0	0.0	1532.7	12.9		Safety Meeting:	
Tuesday	30-Jan-07	21	TR/GH	SM	6:25	10:03	3.6			1110	372.3						Weather:Slight southerly 8kts, +18C AM +37C Midday	
							0.0										Remarks: Production flight. Pdas reboot in flight cost 2 lines	
Julian	30						0.0											
Day	51				Hours	Today	3.6				372.3	0.0	0.0	1905.0	12.9		Safety Meeting:	
Wednesday	31-Jan-07	22	GH/TR	SM	6:29	7:01	0.5			381						1.0	Weather: Easterly breeze 9kts. +18C AM +40C Midday	
							0.0										Remarks: Severe Sferix in flight while doing cals. No production possible	
Julian	31						0.0										S.Miller visited Dr for neck injurry	
Day	52				Hours	Today	0.5				0.0	0.0	0.0	1905.0	12.9		Safety Meeting: Held today	
Thursday	1-Feb-07						0.0									1.0	Weather: Strong easterly breeze 25Kts gusting to 28. +18C AM + 35C midd	ay
							0.0										Remarks: Winds too strong for survey. No flights	
Julian	32						0.0										S.Miller on sick leave (1 day)	
Day	53				Hours	Today	0.0				0.0	0.0	0.0	1905.0	12.9		Safety Meeting:	
Friday	2-Feb-07	23	TR	SM	6:37	8:37	2.0				159.6	12.9				0.5	Weather: Strong easterly breeze 15kts, +20C AM +37C midday	
		24	TR	MW	13:26	13:36	0.2			720							Remarks: Winds too strong for continued EM (bird) survey.	
Julian	33						0.0										Test flight of LDAR protection with optical glass. Did not work with protective	9
Day	54				Hours	Today	2.2				159.6	12.9	0.0	2077.5	25.8		glass plate. Plate removed after test.	
Saturday	3-Feb-07	25	GH	SM	6:37	9:55	3.3			1160	399.0						Weather:Slight Northerly breeze 8Kts, +22C AM, +38C Midday	
							0.0										Remarks:Production flight cut short by 30 minutes due to incresed turbulence	e.
Julian	34						0.0										PDAS reboot cost 20 minutes and one line reflown inflight	
Day	55				Hours	Today	3.3				399.0	0.0	0.0	2476.5	25.8		PNAV replacement installed after flight, check test OK	
Sunday	4-Feb-07	26	TR	MW	6:37	9:39	3.0			1086	279.3		39.9				Weather: Winds East 8 kts +23C AM +40C Midday	
							0.0										Remarks: Several system problems with PDAS, EM XFR, GPS and HDD.	
Julian	35						0.0									1	Production shortened due to problems.	
Day	56				Hours	Today	3.0				279.3	0.0	39.9	2715.9	25.8		Work on Robyn ongoing, installed new Regulator board	
Total	Job Hours	69.2	,	Weekly	Totals		16.1	0	0	5617	1649.1	12.9	39.9			2.5		
Aircraft Hrs at			Total	Aircraft	Hours		7941.5	Lt	rs/Hr	348					tal Standby			
start of job	7873.1		Hours to	Next P	eriodic		101.3		Runni	ng Avg	235.6	km/day		9	6 Complete	8.0	j	
Next service	8042.7						8.5				102.2	km/hr		km	Remaining	31349.1		
Survey E	quipment F	Problems:						_									-	

Date Stock Stock
Date Flight Number Number Number Flight Number Num
Date Flight Crew Time M/R Oil Fuel This Flight To Date Standby (0, 0.5, 1)
Number Pit(s) Op T/O Land Hrs L R Added Prod Refly Scrub Prod Refly (0, 0.5, 1)
Monday S-Feb-07
A
Day S7
Tuesday 6-Feb-07 27 TR SM 6:26 10:14 3.8 1159 319.2 39.9
Day 58 Hours Today 3.8 319.2 39.9 0.0 3075.0 65.7
Julian 37
Day 58
Wednesday 7-Feb-07
Remarks: No flight due to strong winds. Work ongoing with Robyn. M. Wirski to complete coil balance and re install into bird sheel. Day 59 Hours Today 0.0 0.0 0.0 0.0 3075.0 65.7 Safety: Incident report in for LIDAR. QIR submitted on glass. Thursday 8-Feb-07 28 TR SM 6:30 10:12 3.7 1120 478.8 39.9 Weather: North Easterly breeze, 7kts. +19C AM, +36C Midday Remarks: Full production flight. I Scrub due to cross track of PNAV.
Day 59 Hours Today 0.0 0.0 0.0 0.0 3075.0 65.7 M. Wirski to complete coil balance and re install into bird sheel. Safety: Incident report in for LIDAR. QIR submitted on glass. Thursday 8-Feb-07 28 TR SM 6:30 10:12 3.7 1120 478.8 39.9 Weather: North Easterly breeze, 7kts. +19C AM, +36C Midday Remarks: Full production flight. ! Scrub due to cross track of PNAV.
Day 59 Hours Today 0.0 0.0 0.0 3075.0 65.7 Safety: Incident report in for LIDAR. QIR submitted on glass. Thursday 8-Feb-07 28 TR SM 6:30 10:12 3.7 1120 478.8 39.9 Weather: North Easterly breeze, 7kts. +19C AM, +36C Midday Remarks: Full production flight.! Scrub due to cross track of PNAV. Scrub due to cross track of PNAV. Scrub due to cross track of PNAV.
Thursday 8-Feb-07 28 TR SM 6:30 10:12 3.7 1120 478.8 39.9 Weather: North Easterly breeze, 7kts. +19C AM, +36C Midday Remarks: Full production flight. ! Scrub due to cross track of PNAV.
Remarks: Full production flight. ! Scrub due to cross track of PNAV.
Julian 39 0.0
Day 60 Hours Today 3.7 478.8 0.0 39.9 3513.9 65.7 Safety Meeting: Held at 1800.
Friday 9-Feb-07 Weather: Strong Easterly +16kts. +19C AM +36C Midday
Remarks: No flight due to system crash and strong winds.
Julian 40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Day 61 Hours Today 0.0 0.0 0.0 3513.9 65.7 Safety Meeting:
Saturday 10-Feb-07 Weather: Strong Winds +20Kts by 9AM. +18C AM +35C Midday
Remarks: Rebuilding EMPDAS & PDAS software files including backups.
Julian 41 Robyn Bird ready for test flight, no brass bolts for tail Day 62 Hours Today 0.0 0.0 0.0 3513.9 65.7 Safety Meeting:
Sunday 11-Feb-07 29 GH SM\GT 6:25 9:05 2.7 1085 279.3 39.9 Weather: Slight Easterly Breeze 6 Kts. +16C AM +34C Midday
Remarks: Production flght short due to strong turbulence and winds Julian 42 Also had High Sferix in flight.
Day 63 Hours Today 2.7 279.3 39.9 0.0 3833.1 105.6 Safety Meeting: Total Job Hours 79.4 Weekly Totals 10.2 0 0 3364 1077.3 79.8 39.9 1.0
Aircraft Hrs at Total Aircraft Hours 7951.6 Ltrs/Hr 331 Total Standby 3.5
start of job 7873.1 Hours to Next Periodic 91.1 Running Avg 153.9 km/day % Complete 11.3
Next service 8042.7 Anticipated Hours Next week 8.7 106.0 km/hr km Remaining 30231.9
Survey Equipment Problems:

Jo Area S	mmencing: bb Number: 1 Total km: al Area KM:	1835			С	Base:	VH-W Dubbo Austra S1)		D	ata Proc: v Leader:	Glendon Steve Ca Scott Mill Talarook	rter		Techs: Client:	Glendon T BRS, Geo	nilton, Til Ribarich Turner/ Scott Miller Australia 240 / 02 6884 5222
Da	ate	Flight		ew		me	M/R	Oi		Fuel		Flight			Date		Comments
Monday	12-Feb-07	Number 30	Plt(s)	Op SM/GT	T/O 6:30	Land 7:16	Hrs 0.8	L	R	Added 290	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1) 1.0	Weather: Strong winds 30 Kts +18C AM +29C Midday Large storms in region
Worlday	12-Feb-07	30	IK	SIVI/GT	0.30	7.10	0.0			290						1.0	Remarks: Strong winds just after take off, resulted in flight cancelled. Sferix also high
Julian	43						0.0										Electrical failure of main supply rail for Rack just before landing
Day	64				Hours	Today	0.8				0.0	0.0	0.0	3833.1	105.6		Safety Meeting:
Tuesday	13-Feb-07						0.0									1.0	Weather: Winds 18-20KTs 6AM. +17C AM +25C Midday
							0.0										Remarks: All wiring checked by Engineer on site. Rack Supply battery OK. Possible Relay
Julian	44						0.0										No Production due to contined strong winds, from Low pressure trough throughout inland
Day	65				Hours	Today	0.0				0.0	0.0	0.0	3833.1	105.6		Eastern Australia. (QLD - VIC)
Wednesday	14-Feb-07	31	TR	SM/GT	6:30	9:26	2.9			961	239.4						Weather: Easterly breeze, 7 kts +18C AM, +30C Midday Storms in afternoon
							0.0										Remarks: Production flight cut short due winds.
Julian	45						0.0										Mid air near miss incident.
Day	66			_		Today	2.9				239.4	0.0	0.0	4072.5	105.6		Safety Meeting:
Thursday	15-Feb-07	32	GH	SM/GT	6:35	9:48	3.2			1100	399.0			ł			Weather: Winds 070/7kts +19C AM +30C Midday. Storms in afternoon
La Cara	40						0.0										Remarks: Production Flight cut short by 25 mins due to turbulence and winds
Julian	46					Tadan	0.0				000.0	0.0	0.0	4474.5	405.0		John Stewart arrived on site 2030, assitance on RH Gen and voltages.
Day	67			014/07		Today	3.2	\vdash		074	399.0	0.0	0.0	4471.5	105.6		Safety Meeting:
Friday	16-Feb-07	33	TR	SM/GT	7:05	10:10	3.1			971	279.3			ł			Weather: 060/6Kts +19C AM +32C Midday Storms in Afternoon
Julian	47						0.0							ł			Remarks: Aircraft Voltage Regulator adjusted to 28V, turbulence cut short survey flight Tested Flash card in C: Drive of PDAS OK
Day	68				Hours	Today	3.1				279.3	0.0	0.0	4750.8	105.6		Safety Meeting:
Saturday	17-Feb-07	34	GH	SM/GT	6:30	10:06	3.6			1160	438.9	0.0	0.0	4700.0	100.0		Weather: 110/04 kts +18C AM +33C Midday
outur day	17-1 CD-07	57	GIT	OW/OT	0.50	10.00	0.0			1100	430.3			1			Remarks: Full Production flight
Julian	48						0.0							1			rectitutes. Full Freduction might
Day	69				Hours	Today	3.6			İ	438.9	0.0	0.0	5189.7	105.6		Safety Meeting:
Sunday	18-Feb-07	35	GH	SM/GT	6:25	9:27	3.0			1100	359.1						Weather: 060 / 8 kts +20C AM +32C Midday
							0.0							1			Remarks: Shorter flight due to turbulence. Trialed CF Flash in PDAS C: drive for last line.
Julian	49						0.0							1			
Day	70			•	Hours	Today	3.0				359.1	0.0	0.0	5548.8	105.6		Safety Meeting:
Tota	Job Hours	96.0		Weekly	Totals		16.6	0	0	5582	1715.7	0.0	0.0			2.0	
Aircraft Hrs at		•	Total	Aircraft	Hours		7968.3	Ltr	rs/Hr	336				То	tal Standby		
start of job	7873.1		Hours to				74.4	F	Runni	ng Avg		km/day			6 Complete		
Next service	8042.7		ated Ho	urs Nex	t week		9.5				103.1	km/hr		km	Remaining	28516.2	
Survey	Equipment F	Problems:															_

J Area S	ommencing: ob Number: 1 Total km: al Area KM:	1835			С	Base:	VH-W Dubbo Austra S1)		D	ata Proc: v Leader:	Glendon Steve Ca Scott Mill Talarook	rter		Techs: Client:	BRS, Geo	rurner/ Scott Miller
	ate	Flight	Cro	ew	Ti	me	M/R	Oi	ı	Fuel	This	Flight		То	Date	Standby	Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	19-Feb-07	36	GH	GT/SM	6:35	10:16	3.7			1160	478.8						Weather: 090/07kts +22C AM +36C midday Clouds 6/8 AM Cumulous Midday
							0.0										Remarks: Full production flight using CF in PDAS C: Drive.
Julian	50						0.0										Unable to trial CF in EMPDAS D: Drive due to full flight.
Day	71				Hours	Today	3.7				478.8	0.0	0.0	6027.6	105.6		Safety Meeting: Held at 1745
Tuesday	20-Feb-07	37	GH	GT	6:27	9:46	3.3			600	359.1		39.9				Weather: 140 /11kts +21C AM, +36C Midday. Clouds 1/8 AM, Cumulous and storms Midd
		Test	GH	GT	11:13	11:44	0.5			842							Remarks: Production cut short due to winds, and equipment failure. Test of Robyn Bird
Julian	51						0.0	\vdash									succesfully completed before temps got too high for take off.
Day	72					Today	3.8				359.1	0.0	39.9	6346.8	105.6		Safety Meeting:
Wednesday	21-Feb-07	38	GH	GT	6:34	9:56	3.4			1140	359.1	39.9					Weather: 100 /12Kts +23C AM Clouds 4/8, +30C Midday, 350/ 10kts +35C PM Clouds 3/
							0.0										Remarks: Production short due turbulence, and PDAS lockup on line. Replaced CF with H
Julian _	52					<u> </u>	0.0										Reflight from previous day flown OK
Day	73					Today	3.4				359.1	39.9	0.0	6745.8	145.5		Safety Meeting:
Thursday	22-Feb-07	39	GH	GT	6:38	10:26	3.8			241	478.8						Weather: 020/05 Kts +23C AM clouds 7/8 light showers in area, +35 PM 350/10 kts thund
		Test			14:00	14:15	0.2			1161							Remarks: Full production flight, light winds and cloud cover kept thermals and temps low
Julian	53						0.0										Test flight for Co Pilot Altimeter (not used for survey acquisition)
Day	74				Hours	Today	4.1				478.8	0.0	0.0	7224.6	145.5		Safety Meeting:
Friday	23-Feb-07						0.0										Weather: 030/7kts +22C AM clouds 4/8 +33C PM 350/12Kts hail / thundersorms
							0.0										Remarks: PDO No flying today
Julian	54						0.0	\vdash									
Day	75					Today	0.0				0.0	0.0	0.0	7224.6	145.5		Safety Meeting:
Saturday	24-Feb-07	40	GH	GT	6:45	10:35	3.8			1120	478.8						Weather: 300/06kts +21C AM cloud 1/8, +35C PM 320/12kts clouds 5/8
							0.0										Remarks: Full production flight
Julian	55					<u> </u>	0.0										
Day	76					Today	3.8		_		478.8	0.0	0.0	7703.4	145.5		Safety Meeting:
Sunday	25-Feb-07	41	GH/MY	SM	7:01	10:26	3.4			1119	359.1						Weather: 140/06kts +20C AM Clouds 3/8. +33C PM 120/08kts clouds 6/8
							0.0										Remarks: Full production flight with 50km ferry from/to Dubbo
Julian	56						0.0										
Day	77					Today	3.4		_		359.1	0.0	0.0	8062.5	145.5		Safety Meeting:
	I Job Hours	118.2		Weekly			22.2	0	0	7383	2513.7	39.9	39.9	_		0.0	
Aircraft Hrs a		İ		Aircraft			7990.4		s/Hr	333	050 /				tal Standby		
start of job	7873.1		Hours to				52.3	5	kunni	ng Avg		km/day			Complete		
Next service	8042.7		ated Ho	urs Nex	t week		10.7	l			113.3	km/hr		km	Remaining	26002.5	
Survey	Equipment F	roblems:															-

	/eek Commencing: Monday 26-Feb- Job Number: 1835			07	Α		VH-W					Glendon					nilton / Mick Young
	b Number: Total km:				_		Dubbo Austra					Steve Ca Mick You				BRS. Geo	Furner/ Scott Miller
							S1/N1			Crev			Motor Inn			-,	240 / 02 6884 5222
	l Area KM:	34065			_								WIOLOI IIIII				
Dat	te	Flight Number	Plt(s)	w Op	Ti T/O	me Land	M/R Hrs	Oi L	il R	Fuel Added	This Prod	Flight Refly	Scrub	To Prod	Date Refly	Standby (0, 0.5, 1)	Comments
Monday	00 5-4 07		` '	GT			2.2	_	ĸ			Relly	Scrub	Flou	Relly	(0, 0.5, 1)	440/40 + 2000 AM OLDOVO LIEAVAY DAINI AT 4000 + 2000DM
Moriday	26-Feb-07	42	MY/GH	GI	6:48	9:00	2.2			1119	199.5						110/10 +20C AM CLD6/8 HEAVY RAIN AT 1000. +28CPM Flight cut short due rain and wind
Julian	57						0.0										Flight cut short due fain and wind
Day	78				Hours	Today	2.2				199.5	0.0	0.0	8262.0	145.5		Safety Meeting:
Tuesday	27-Feb-07	43	MY	GT	6:55	10:28				1260	399.0		39.9	020210			Am 120/05 +19C CLD 7/8 Pm 100/10 +28c
							0.0										Full flight 1 line scrubed due to system noise
Julian	58						0.0										,
Day	79				Hours	Today	3.6				399.0	0.0	39.9	8621.1	145.5	1	Safety Meeting:
Wednesday	28-Feb-07	44	GH	SM	6:49	8:21	1.5			550	0.0					1.0	Am 070/08 +19c CLD 4/8 (storms) Pm +28c
							0.0										Spherics no production possible
Julian	59						0.0										
Day	80				Hours	Today	1.5				0.0	0.0	0.0	8621.1	145.5		Safety Meeting:
Thursday	1-Mar-07	45	MY	GT	7:00	10:45	3.8			1140	375.6		375.6				Weather:130/07 20c
							0.0										Remarks:Extreme spherics
Julian _	60					<u> </u>	0.0										
Day	81					Today	3.8				375.6	0.0	375.6	8621.1	145.5		Safety Meeting:Held by SM
Friday	2-Mar-07	46	MY	GT	7:25	10:30	3.1			1021	253.8	121.8					Weather:010/05 20c-25c Fine cond.
Julian	61						0.0										Remarks:Cut short due turbulence
Day	82				Hours	Today	3.1				253.8	121.8	0.0	8996.7	267.3		Safety Meeting:
Saturday	3-Mar-07				Hours	Today	0.1				200.0	121.0	0.0	0330.1	201.0		Weather:
Cataraay	3-IVIAI-07						0.0										Remarks:Nil flying due rebalancing bird
Julian	62						0.0										
Day	83				Hours	Today	0.0				0.0	0.0	0.0	8996.7	267.3		Safety Meeting:
Sunday	4-Mar-07	47	MY	GT	6:50	10:15	3.4			1100	441.6						Weather: VRB/05 20c-30c Fine cond.
							0.0										Remarks:Cut short due spherics and turbulence
Julian	63						0.0										
Day	84					Today	3.4				441.6	0.0	0.0	9438.3	267.3		Safety Meeting:
	Job Hours	135.8		Weekly			17.5		0	6190	1669.5	121.8	415.5			1.0	
Aircraft Hrs at				Aircraft			8008.0		rs/Hr	353					tal Standby]
start of job	7873.1		Hours to				34.7		≺unni	ng Avg		km/day			6 Complete		
Next service	ext service 8042.7 Anticipated Hours Survey Equipment Problems:				t week		11.2				95.2	km/hr		km	Remaining	24626.7	
Survey E	quipment F	roblems:															_ 399

	mmencing: bb Number: Total km	1835	5-Mar-0)7		Base:	VH-W Dubbo)			perators: ata Proc: V Leader:	Matt Note	eboom			Glendon T BRS, Geo	
1835 Tota	al Area KM:	34165		0	Area	,							Motor Inn				240 / 02 6884 5222
Da	ate	Flight	Cr	ew	Ti	me	M/R	0	il	Fuel	This	Flight		То	Date	Standby	Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	5-Mar-07						0.0										Weather:
				ļ	ļ		0.0										Remarks:Nil flying due wx - rain/storms
Julian	64				<u> </u>	<u> </u>	0.0							2 / 2 2 2		1.0	
Day	85			ı	Hours	Today	0.0				0.0	0.0	0.0	9438.3	267.3	1.0	Safety Meeting:
Tuesday	6-Mar-07						0.0										Weather:
Julian	65				1		0.0										Remarks:Nil flying due wx - 13017
Day	86				Hours	Today	0.0				0.0	0.0	0.0	9438.3	267.3	1.0	Safety Meeting:
Wednesday	7-Mar-07			I	riours	Today	0.0				0.0	0.0	0.0	3430.3	207.0		Weather:
	7-IVIGIT-07						0.0									1.0	Nil Flying due wx - rain low cld
Julian	66						0.0										Thirtying ddc tix Tairrion old
Day	87				Hours	Today	0.0		1		0.0	0.0	0.0	9438.3	267.3		Safety Meeting:
Thursday	8-Mar-07				1		0.0									1.0	Weather:
							0.0										Nil flying due storms am and turb pm
Julian	67						0.0										
Day	88				Hours	Today	0.0				0.0	0.0	0.0	9438.3	267.3		Safety Meeting:Held no items raised
Friday	9-Mar-07	48	MY	GT	10:00	13:25	3.4			1200	198.0	172.0					Weather: Early fog then fine w/v 12007
							0.0										Remarks: Re-fly due to spherics
Julian -	68						0.0										
Day	89				-	Today	3.4				198.0	172.0	0.0	9808.3	439.3		Safety Meeting:
Saturday	10-Mar-07	49	MY	GT	7:00	10:40	3.7		1	1272	452.0	122.0					Weather:Fine 08011
Julian	69						0.0										Remarks: Re-fly due to spherics
Day	90			ļ	Hours	Today	3.7				452.0	122.0	0.0	10382.3	561.3		Safety Meeting:
Sunday	11-Mar-07	50	MY	GT	7:00	10:45				1250	574.0		Ü.Ü	.0002.0	331.0		Weather:Perfect 12007
, ,			····	<u> </u>	1		0.0				0						Remarks:
Julian	70						0.0										
Day	91				Hours	Today	3.8				574.0	0.0	0.0	10956.3	561.3		Safety Meeting:
Total	Job Hours	146.6		Weekly	Totals		10.8	0	2	3722	1224.0	294.0	0.0			4.0	
Aircraft Hrs at				Aircraft			8018.8		rs/Hr						tal Standby		
start of job	7873.1		Hours to				23.9		Runni	ng Avg		km/day			6 Complete		-
Next service	8042.7		ated Ho	urs Nex	t week		11.2				113.0	km/hr		km	Remaining	23208.7	
Survey I	Equipment I	Problems:															_

Jo	mmencing: bb Number: Total km al Area KM:	1835 34165				ountry:	Dubbo Austra)			dta Proc: w Leader:	Glendon Matt Note Mick You Talarook	boom		Client:	Glendon T BRS, Geo	
Da	ite	Flight	Cre	ew	Ti	me	M/R	C	Dil	Fuel	This	Flight		То	Date	Standby	Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	12-Mar-07	51	MY	GT	7:00	10:40	3.7			1340	553.0						Weather: Fine 19005 to 08012
							0.0										Remarks:
Julian	71						0.0										
Day	92				Hours	Today	3.7				553.0	0.0	0.0	11509.3	561.3		Safety Meeting:
Tuesday	13-Mar-07	52	MY	GT	9:10	10:50	1.7			600	132.0						Weather: Marginal 10018 to 08018
							0.0										Remarks: Flight cut short due turbulence
Julian	72						0.0										
Day	93				Hours	Today	1.7				132.0	0.0	0.0	11641.3	561.3		Safety Meeting:
Wednesday	14-Mar-07	53	MY	GT	7:40	11:20	3.7			1232	452.0						Weather: Fine 11011 to 10010
							0.0										Remarks:
Julian	73						0.0										
Day	94				Hours	Today	3.7				452.0	0.0	0.0	12093.3	561.3		Safety Meeting:
Thursday	15-Mar-07	54	MY	GT	7:00	10:00	3.0			1004	396.0						Weather: Fine 06010 to 06011
							0.0										Remarks:
Julian	74						0.0										
Day	95			•	Hours	Today	3.0				396.0	0.0	0.0	12489.3	561.3		Safety Meeting:
Friday	16-Mar-07	N/A	MY	GT	9:30	10:00	0.5			460							Weather: 33013 to 31014
					12:15	12:40	0.4										Remarks: CMOS battery failure so no production. Warren open day
Julian	75						0.0										
Day	96				Hours	Today	0.9				0.0	0.0	0.0	12489.3	561.3		Safety Meeting:
Saturday	17-Mar-07	55	MY	GT	7:00	10:40	3.7			1460	528.0						Weather: Fine 06004 to 28008
							0.0										Remarks: Compac flash card reader problem + data cable problem. Field repair carr
Julian	76						0.0										
Day	97				Hours	Today	3.7				528.0	0.0	0.0	13017.3	561.3		Safety Meeting: Held, no issue's raised
Sunday	18-Mar-07	56	MY	GT	8:15	11:00	2.8			920	330.0						Weather: Windy + Turbulent 09016 to 09017
							0.0										Remarks: Flight cut short due turbulence
Julian	77						0.0										
Day	98				Hours	Today	2.8				330.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Total	Job Hours	165.9	,	Weekly	Totals		19.3	0	0	7016	2391.0	0.0	0.0			0.0	
Aircraft Hrs at	!		Total	Aircraft	Hours		8038.1	Lt	trs/Hr	363		•		To	tal Standby	10.5	
start of job	7873.1		Hours to	Next P	eriodic		4.6	Ì	Runn	ing Avg	341.6	km/day		%	6 Complete	39.1	1
Next service	8042.7	8042.7 Anticipated Hours N			t week		11.8	Ì		- 0	123.7	km/hr		km	Remaining	20817.7	
Survey	Equipment I	Problems:						•							·		

Jo	eek Commencing: Monday 19-Mar-0 Job Number: 1835 Total km 34165 35 Total Area KM: 34065					Base: ountry:	VH-W Dubbo Austra))ata Proc: w Leader:	Glendon Matt Note Mick You Talarook	eboom		Client:	Glendon T BRS, Geo 0429 109	
						me	M/R		il	Fuel		Flight		To	Date		Comments
Da	ile	Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	Comments
Monday	19-Mar-07		ι (-)				0.0					,				(-,, ,	Weather:
·							0.0										Remarks: Maintenance
Julian	78						0.0										
Day	99			•	Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Tuesday	20-Mar-07						0.0										Weather:
							0.0										Remarks: Maintenance
Julian	79						0.0										
Day	100				Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Wednesday	21-Mar-07						0.0										Weather:
							0.0										Remarks: Maintenance
Julian	80						0.0										
Day	101				Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Thursday	22-Mar-07						0.0										Weather:
							0.0										Remarks: Maintenance
Julian	81						0.0										
Day	102				Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Friday	23-Mar-07						0.0										Weather:
							0.0										Remarks: Maintenance
Julian	82						0.0										
Day	103			_	Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Saturday	24-Mar-07						0.0										Weather:
Julian	83						0.0										Remarks: Maintenance
	104				Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Day Sunday	25-Mar-07			1	riouis	louay	0.0				0.0	0.0	0.0	10047.3	301.3		Weather:
Canady	20-IVIAI-07						0.0										Remarks: Maintenance
Julian	84						0.0	\vdash									Tromains, Maintenalice
Day	105				Hours	Today	0.0				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
	Job Hours	165.9	,	Weekly			0.0	0	0	0					22110	0.0	11.14 11.1
Aircraft Hrs at		100.0		Aircraft			8038.1		rs/Hr	_	3.0	3.0	3.0		tal Standby		1
start of job	7873.1		Hours to				4.6			ing Avg	0.0	km/day			6 Complete		
Next service	8042.7		ated Ho				11.0			39		km/hr			Remaining		
	Equipment F							1							3		

Jo	mmencing: bb Number: Total km al Area KM:	1835 34165	26-Mar-		С	Aircraft: Base: ountry: Name:	Dubbo Austra)			data Proc: w Leader:	Glendon Matt Note Mick You Talarook	eboom		Techs: Client:	Mick Your Glendon T BRS, Geo 0429 109	urner
Da	ite	Flight	Cre	ew	Ti	me	M/R	C	Dil	Fuel	This	Flight		То	Date		Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	26-Mar-07		MY		18:15	19:35	1.3										Weather:
						ļ	0.0										Remarks: Ferry Bankstown to Dubbo
Julian	85						0.0										
Day	106					Today	1.3				0.0	0.0	0.0	13347.3	561.3		Safety Meeting:
Tuesday	27-Mar-07	57	MY	GT/LK	8:15	10:25	2.2			691	198.0						Weather: 06014
							0.0			658							Remarks: Cut short due ill crew member.
Julian -	86						0.0										
Day	107					Today	2.2				198.0	0.0	0.0	13545.3	561.3		Safety Meeting:
Wednesday	28-Mar-07	58	MY	GT/LK	7:20	9:30	2.2			600	198.0		66.0				Weather: 08007
		59	MY	GT/LK	16:55	18:10	1.3			540				Comp. Box			Remarks: Line scrubbed due coil knock. Flight shortend due turb.
Julian -	87						0.0										
Day	108				-	Today	3.4				198.0	0.0	66.0	13677.3	561.3		Safety Meeting:
Thursday	29-Mar-07	60	MY	GT/LK	7:10	10:05	2.9		1	1000	330.0	66.0					Weather:06004
			MY	GT/LK	11:10	12:10	1.0			370	30.0		30.0				Remarks:2nd flight failed due rain
Julian -	88			<u> </u>			0.0										
Day	109					Today	3.9				360.0	66.0	30.0	14073.3	627.3		Safety Meeting: Yes
Friday	30-Mar-07	61	MY	GT/LK	7:15	10:20	3.1			1050	264.0						Weather:23008
							0.0										Remarks:
Julian -	89						0.0										
Day	110					Today	3.1				264.0	0.0	0.0	14337.3	627.3		Safety Meeting:
Saturday	31-Mar-07	62	MY	GT/LK	7:00	10:00	3.0		1	990	330.0		330.0				Weather:00000 and 13009
		63	MY	GT/LK	11:25	13:15	1.8			624	132.0						Remarks: 1st flight scrubbed due flown wrong direction 2nd flight cut short
Julian -	90						0.0										due to turbulance
Day	111				 	Today	4.8				462.0	0.0	330.0	14469.3	627.3		Safety Meeting:
Sunday	1-Apr-07	64	MY	GT/LK	6:10	9:10	3.0			1124	264.0	198.0					Weather:13009
							0.0										Remarks:
Julian	91				L	<u> </u>	0.0										
Day	112	407.7				Today	3.0		0	7045	264.0	198.0	0.0	14931.3	825.3	0.0	Safety Meeting:
	Job Hours	187.7		Weekly			21.8	0	2	7647	1746.0	264.0	426.0		نجا المصطاحي	0.0	
Aircraft Hrs at	7070 4	1		Aircraft			8059.9		rs/Hr		040.4	lena /alas :			tal Standby		ļ
start of job	7873.1		Hours to				80.1	ļ	Kunn	ing Avg		km/day			Complete		
Next service	8140		ated Ho	urs Nex	t week		11.7	l			80.3	km/hr		кm	Remaining	19233.7	
Survey	Equipment I	Problems:															<u>-</u>

Jo	mmencing: bb Number: Total km al Area KM:	1835	2-Apr-0			Base: ountry:	VH-W Dubbo Austra N1)			Data Proc: w Leader:	Glendon Matt Note Mick You Talarook	eboom		Client:	Glendon T BRS, Geo	
Da	ite	Flight	Cre			me	M/R	C	Dil	Fuel	This	Flight		То	Date		Comments
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)	
Monday	2-Apr-07	65	MY	LK/GT	6:15	9:00	2.8			988	198.0						Weather: 13010
		66	MY	LK/GT	9:55	12:35	2.7			906	330.0						Remarks:
Julian	92						0.0										
Day	113				Hours	Today	5.4				528.0	0.0	0.0	15459.3	825.3		Safety Meeting:
Tuesday	3-Apr-07						0.0										Weather:
							0.0										Remarks:PDO
Julian	93						0.0										
Day	114					Today	0.0				0.0	0.0	0.0	15459.3	825.3		Safety Meeting:
Wednesday	4-Apr-07	67	MY	LK/GT	6:25	10:30	4.1			1006	327.0		66.0				Weather:11009
		68	MY	LK/GT	10:30	12:15	1.8			596	129.0						Remarks:
Julian	94						0.0									ļ	
Day	115				_	Today	5.8				456.0	0.0	66.0	15849.3	825.3		Safety Meeting:
Thursday	5-Apr-07	69	MY	LK/GT	6:15	9:00	2.8			906	254.0	66.0					Weather: 15007
		70	MY	LK	10:05	12:15	2.2			729	248.0						Remarks:
Julian	95						0.0									ļ	
Day	116				Hours	Today	4.9				502.0	66.0	0.0	16417.3	891.3		Safety Meeting:
Friday	6-Apr-07	71	MY	LK	6:10	9:10	3.0			984	244.0		60.0				Weather: 14010
							0.0										Remarks:
Julian	96						0.0										
Day	117				Hours	Today	3.0				244.0	0.0	60.0	16601.3	891.3		Safety Meeting:
Saturday	7-Apr-07						0.0										Weather:
							0.0										Remarks: PDO
Julian	97						0.0										
Day	118				_	Today	0.0				0.0	0.0	0.0	16601.3	891.3		Safety Meeting:
Sunday	8-Apr-07	72	MY	LK	6:05	8:25	2.3		<u> </u>	898	119.0	ļ	60.0				Weather: 08006
		73	MY	LK	9:15	10:50	1.6		<u> </u>	520	59.0		59.0				Remarks:
Julian	98						0.0										
Day	119					Today	3.9				178.0	0.0	119.0	16660.3	891.3		Safety Meeting:
	Job Hours	210.8		Weekly			23.1			7533	1908.0	66.0	245.0	_		0.0	
Aircraft Hrs at		Ì		Aircraft			8083.0		trs/Hr						al Standby]
start of job	7873.1		Hours to				57.0		Runn	ing Avg		km/day			Complete		
Next service Survey E	8140 Equipment F		ated Ho	urs Nex	t week		12.3	J			82.7	km/hr		km	Remaining	17504.7	,

Week Co	mmencing:	Monday	9-Apr-0	7	Þ	Aircraft:	VH-W	GT		C	perators:	Glendon i	Turner		Pilots:	Pilots: Mick Young echs: Glendon Turner					
J	ob Number:						Dubbo					Matt Note									
	Total km	34165				ountry:		alia		Cre		Mick You				BRS, Geo					
1835 Tot	al Area KM:	34065		0	Area	Name:	N1				Accom:	Talarook	Motor Inn		Contact #:	0429 109	240 / 02 6884 5222				
D	ate	Flight		ew		ime	M/R	C	Dil	Fuel	This	Flight		То	Date	,	Comments				
		Number	Plt(s)	Op	T/O	Land	Hrs	L	R	Added	Prod	Refly	Scrub	Prod	Refly	(0, 0.5, 1)					
Monday	9-Apr-07	74	MY	LK	6:10	8:25	2.3			750	115.0	119.0					Weather: 12006				
		75	MY	LK	9:20	12:05	2.8			906	342.0						Remarks:				
Julian	99						0.0														
Day	120					Today	5.0				457.0	119.0	0.0	17236.3	1010.3		Safety Meeting:				
Tuesday	10-Apr-07	76	MY	LK	6:05	8:50	2.8			1100	277.0						12006				
		77	MY	LK	9:55	12:10	2.3			780	274.0						Remarks:				
Julian	100				<u> </u>		0.0														
Day	121			1	+	Today	5.0				551.0	0.0	0.0	17787.3	1010.3		Safety Meeting:				
Wednesday	11-Apr-07	78	MY	LK	6:05	9:10	3.1			1044	372.0						13005				
		79	MY	LK	10:00	12:00	2.0			658	215.0						Remarks:				
Julian	101					<u> </u>	0.0							100=10							
Day	122			1		Today	5.1				587.0	0.0	0.0	18374.3	1010.3		Safety Meeting:				
Thursday	12-Apr-07	80	MY	LK	6:00	9:15	3.3				313.0						Weather:13007				
	100						0.0										Remarks: Last flight for WGT or	n 1835. Casa to finish			
Julian	102 123				Haure	Today	3.3	_			313.0	0.0	0.0	18687.3	1010.3		Cofety Masting, Voc. no items				
Day Friday				1	Hours	louay	3.3				313.0	0.0	0.0	10007.3	1010.3		Safety Meeting: Yes, no items				
riiday	13-Apr-07				 	<u> </u>	0.0										Weather: Remarks:				
Julian	103						0.0										Remarks.				
Day	124			ļ	Hours	s Today	0.0				0.0	0.0	0.0	18687.3	1010.3		Safety Meeting:				
Saturday	14-Apr-07			I	riours	l	0.0				0.0	0.0	0.0	10007.5	1010.5		Weather:				
Cuturuuy	14-Арі-от						0.0										Remarks:				
Julian	104						0.0										Nomana.				
Day	125				Hours	Today	0.0				0.0	0.0	0.0	18687.3	1010.3		Safety Meeting:				
Sunday	15-Apr-07					1	0.0										Weather:				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.5 7 .5. 07				 		0.0										Remarks:				
Julian	105				<u> </u>		0.0														
Day	126				Hours	Today	0.0				0.0	0.0	0.0	18687.3	1010.3	1	Safety Meeting:				
	I Job Hours	229.1		Weekly			18.3	0	0	5238	1908.0					0.0	· ·				
Aircraft Hrs a			L	Aircraft			8101.3		trs/Hr				5.0		tal Standby						
start of job	7873.1		Hours to				38.7			ing Avg	272.6	km/day			6 Complete		•				
Next service	8140	Anticip	ated Ho	urs Nex	t week		12.7	1				km/hr			Remaining						
Survey	Equipment F	Problems:													J						

APPENDIX II – Weekly Acquisition Reports VH-TEM

Aircraft: VH-TEM 17157.0 Hrs - Progressive M/R Hrs at the start of job Contract Number: Job Name: Lower Macquarie River Total Job kms: 13345.300 Kms Area Names: F4, N3 Proc. Reflight Kms Kms 13345.300 Kms - Total Job Kms including Proc. Reflights Accommodation: Country Comfort Kms Remain 12891.600 Kms - Kms remaining including Proc. Reflights Flying Base: Dubbo Airport
Client: BRS 12891.600 Kms % Complete 3.40

Date	Flt	Pilot	On	Production	Processing	Fugro	Tir	me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 26-Feb Julian Day 57																		Landing gear on Casa being repaired
Julian Day 57																		
Monday										1								
·																		
Date 27-Feb										92.2						1.0	Weather▶	Overcast skies, rain in afternoon, high winds Landing gear on Casa being repaired
Julian Day 58										1								Landing gear on casa being repaired
ounan bay oo										1								
Tuesday																		
										02.2						1.0	Mosths-	Overcast skies, rain in afternoon, high winds
Date 28-Feb										92.2						1.0	vveatner▶	Landing gear on Casa being repaired
Julian Day 59																		
-										1								
Wednesday																		
																		Outstand thunder and lightning starms, rain in afternoon
										92.2						1.0	Weather►	Overcast, thunder and lightning storms, rain in afternoon, extremely high winds
Date 1-Mar	1	TH,SC	AE,SM	TF														
Julian Day 60																		
Thursday																		
Tilui Suay										1								
										92.2							Weather▶	Overcast skies, calm winds, light rain in afternoon
Date 2-Mar	2	TH,SC	AE	37.700		113.000	7:16	9:08	1.9									
Julian Day 61																		
Friday																		
inday																		
				37.700		113.000			1.9	90.3	1.9	37.700		113.000			Weather▶	Clear Skies, Calm winds, hot temperatures in afternoon
Date 3-Mar	3	TH,JC	AE	75.400		188.600	6:25	9:09	2.7									
Julian Day 62																		
Saturday.										ł								
Saturday																		
j				75.400		188.600			2.7	87.6	4.6	113.100		301.600			Weather▶	Clear Skies, Calm winds, hot temperature in afternoon
Date 4-Mar	4	TH,JC	AE	340.600		151.300	6:55	10:44	3.8									
Julian Day 63	•																	
Sunday										ł								
Sunday																		
				340.600		151.300			3.8	83.8	8.4	453.700		452.900			Weather▶	Clear skies, calm winds which turned high in afternoon creating turbulance in late morning
		Totals This	Week: ▶	453.700	0.000	452.900	Weel	K Hours:▶	8.4	▲: A/C Hrs to	Next Serv	ice			0.0	3.0		

Aircraft:	VH-TEM	1			17157.0	Hrs - Progr	ressive M/F	R Hrs at th	e start of j	ob						Cont	ract Number:	0
•									•								Job Name:	Lower Macquarie River
Total Job kms:	13345.300	Kms															Area Names:	F4, N3
Proc. Reflight Kms:	0.000	Kms			13345.300	Kms - Tota	l Job Kms	including	Proc. Refl	ights						Acc	ommodation:	Country Comfort
Plan Kms Remain:	11762.800	Kms			11762.800	Kms - Kms	remaining	gincluding	Proc. Ref	lights								Dubbo Airport
% Complete:	11.86	%															Client:	BRS
	qwertyuiopas			qwertyui		qwertyuiopa						qwertyuiopas		qwertyuiopa	. , .	. , .		qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro	Ti	me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 5-Mar									0.0									
Julian Day 64									0.0									
M 1									0.0	ļ								
Monday									0.0									
				0.000	0.000	0.000			0.0	83.8	8.4	453.700	0.000	452.900		1.0	Weather	Overcast rain, high winds
Date 6-Mar				0.000	0.000	0.000	 	1	0.0	00.0	U. 4	700.700	0.000	702.300		1.0	** Call ICI	O TOTOGOCTURE, TRIGHT WINDO
Julian Day 65									0.0	1								
,									0.0									
Tuesday									0.0]								
									0.0									
				0.000	0.000	0.000			0.0	83.8	8.4	453.700	0.000	452.900		1.0	Weather▶	Overcast rain, high winds
Date 7-Mar Julian Day 66									0.0								-	
Julian Day 66									0.0									
Wednesday									0.0	1								
Wednesday									0.0									
				0.000	0.000	0.000			0.0	83.8	8.4	453.700	0.000	452.900		1.0	Weather▶	Overcast, rain, high winds
Date 8-Mar									0.0									
Julian Day 67									0.0									
Thursday									0.0									
Thursday									0.0									
				0.000	0.000	0.000			0.0	83.8	8.4	453.700	0.000	452.900		1.0	Weather▶	Lightning storms, cloudy
Date 9-Mar	5	TH,JC	AE	0.000	0.000	0.000	8:47	10:06	1.3									Laser Altimeter issues, monitored and fixed.
Julian Day 68	6	TH,JC	AE	0.000	0.000	0.000	11:02	12:17	1.3									
									0.0									
Friday									0.0									
									0.0									Manaira Can alasandia lata arranian arranian arrandalarata
				0.000	0.000	0.000			2.6	81.2	11.0	453.700	0.000	452.900			Weather▶	Morning Fog, cleared in late morning, sunny and clear for remainder of day
Date 10-Mar	7	TH,JC	AE	613.000	0.000	0.000	6:42	11:09	4.4		1	<u> </u>	1				 	- Contained of day
Julian Day 69	,	111,00	, 1L	013.000	0.000	0.000	0.72	11.00	0.0									
-					İ				0.0	1								
Saturday									0.0]								
_									0.0									
		W11.16		613.000	0.000	0.000			4.4	76.8	15.4	1066.700	0.000	452.900			Weather▶	Clear, calm winds
Date 11-Mar	8	TH,JC	AE	515.800		38.000	6:59	10:54	3.9 0.0	ł								
Julian Day 70					1		1	1	0.0								-	
Sunday							 		0.0	1								
Junuay									0.0	1								
				515.800	0.000	38.000			3.9	72.9	19.3	1582.500	0.000	490.900			Weather▶	Clear, calm winds
		Totals This	Week: ▶	1128.800	0.000	38.000	Weel	k Hours:▶	10.9	▲: A/C Hrs to	Next Serv	rice			0.0	4.0		
										•				Į.			_	

The content of the	Aircraft:	VH-TEM				17157.0	Hrs - Progr	essive M/I	R Hrs at th	e start of j	ob						Contr	act Number:	0
Part Part																		Job Name:	Lower Macquarie River
Part Part	Total Job kms:	13345.300	Kms														A	rea Names:	F4, N3
Process Proc	Proc. Reflight Kms:	0.000	Kms			13345.300	Kms - Tota	l Job Kms	including	Proc. Refl	ights						Acco	mmodation:	Country Comfort
Methods Meth	Plan Kms Remain:	9483.100	Kms			9483.100	Kms - Kms	remaining	g including	Proc. Ref	lights							Flying Base:	Dubbo Airport
Proc. Proc	% Complete:	28.94	%															Client:	BRS
Proc. Proc	gwertyui •	gwertyuiopas			gwertyui		gwertyuiopa	gwertyui	qwertyui	qwertyu	gwerty	gwertyui	gwertyuiopas	d	gwertyuiopa	gwertyuiop	gwertyuiop		gwertyuiopasdfghjklzxcvbnm gwertyuiopasdfghjklzxcvb
Mathematical part				On	Production							Job	Prod.	Proc.				Activity	
Part								Take	Land	Hrs		Hrs				-	Davs	_	Weather, Data delivery, Safety Meetings
More 2-May No. More 1-May No. More													40		40	,-	,-		
March 1948 1948 1948 1949						I I		Oii			inspection								Crew movements etc
Manual Part Manual Part			B11.10		Renights	_						Date	Date	Date	Date				
Monthage		9	PH,JC	AE		113.400	37.700	6:54	8:53		ł								T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Monday	Julian Day 71										-								Turbulence caused early end of flight
Part 1-Min Place Mondov																			
Market 19 19 19 19 19 19 19 1	Worlday										+								
Author Day 1-4-May					0.000	112 400	27 700				70.0	24.2	1502 500	112 100	E20 600			Moothork	Clear and sunny high winds and hot in afternoon
Marked Day 17 Marked Day 17 Marked Day 18 Marked Day	Data 12 Mar				0.000	113.400	37.700				70.9	21.3	1562.500	113.400	526.000			weather	olear and suriny, high winds and not in alternoon
Tuesday											†								No flying due to high winds
THE STATE 1	ounan Day 12										t								The styring add to ringin windo
Part Part	Tuesday										†								
Date 16-Mar 10 PH_JC AE 512-400 38.000 642 11.03 A	luccuay																		
Medical Pay 7					0.000	0.000	0.000			0.0	70.9	21.3	1582.500	113.400	528.600		l	Weather▶	Clear and sunny, extremely high winds
Medical Pay 7	Date 14-Mar	10	PH.JC	AE				6:42	11:03										, , , ,
Medical Part			- 1																
Control Cont	, i									0.0	1								
Control Cont	Wednesday									0.0	1								
Date 1	·																		
Thursday Thurs					512.400	0.000	38.000			4.4	66.5	25.7	2094.900	113.400	566.600			Weather▶	Clear and sunny. Hot in afternoon
Thursday		11	PH,JC	AE	114.300			6:59	9:04										
Thursday	Julian Day 74																		Turbulence caused early end of flight
Meather Clear and sunny. Meather Cle	!																		
Date 17-Mar 12 PH.JC AE 844,000 0.000	Thursday																		
Date 16-Mar																			0
Sulian Day 75					114.300	0.000	0.000				64.4	27.8	2209.200	113.400	566.600			Weather▶	Clear, little clouds, nigh winds in afternoon
Friday	Date 16-Mar							9:30	10:00	0.5									Data Hisking and Jasua Cay flow to Warren than flow to
Friday	Julian Day 75							12:00	12:30	0.5									
Friday										0.0	+								Coordanible after showcase in Warren.
Date 17-Mar 12 PH,JC AE 844.000 0.000	Friday										t								
Date 17-Mar 12 PH,JC AE 844,000 6:47 12:00 5.2	i i i i i i i i i i i i i i i i i i i										†								
Date J1-Mar J2 PH,JC AE 844.000 6:47 12:00 5.2 Julian Day 5.2 Julian Day					0.000	0.000	0.000				63.4	28.8	2209.200	113.400	566.600			Weather▶	Clear and sunny.
Saturday 76 Image: Control of the control of the	Date 17-Mar	12	PH,JC	AE				6:47	12:00										,
Saturday	Julian Day 76										1								
Sunday Sunday]								
Date 18-Mar Julian Day 13 PH,JC AE 695.600 6.46 11:30 4.7 4.7 53.5 38.7 3748.800 113.400 566.600 Weather ► Clear and sunny, hot in afternoon Weather ► Clear and sunny, hot in afternoon Turbulence caused early end of flight. Sunday 695.600 0.00 0.00 4.7 53.5 38.7 3748.800 113.400 566.600 Weather ► Clear and sunny, hot in afternoon	Saturday]								
Date 18-Mar 13 PH,JC AE 695.600 6:46 11:30 4.7 Julian Day 77 7 8 9 <th< td=""><td>· [</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	· [
Sunday 77 0.0 0.0 Sunday 0.0 0.0 695.600 0.000 4.7 53.5 38.7 3748.800 113.400 566.600 Weather▶ Clear and sunny, hot in afternoon						0.000	0.000				58.2	34.0	3053.200	113.400	566.600			Weather▶	Clear and sunny, hot in afternoon
Sunday 0.0 695.600 0.000 695.600 0.000 4.7 53.5 38.7 3748.800 113.400 566.600 Weather ► Clear and sunny, hot in afternoon		13	PH,JC	AE	695.600			6:46	11:30										
Sunday 0.0 695.600 0.000 695.600 0.000 4.7 53.5 38.7 3748.800 113.400 566.600 Weather ► Clear and sunny, hot in afternoon	Julian Day 77										1								I urbulence caused early end of flight.
0.0 0.00 0.000 4.7 53.5 38.7 3748.800 113.400 566.600 Weather▶ Clear and sunny, hot in afternoon	C										+								
695.600 0.000 0.000 4.7 53.5 38.7 3748.800 113.400 566.600 Weather▶ Clear and sunny, hot in afternoon	Sunday										+								
					60E 000	0.000	0.000				52 F	20.7	2740 000	112 100	EGG 600			Mootho->	Clear and sunny hot in afternoon
10tals 1118 week: 2166,300 113,400 /5,700 week nours: 19.4 A: A/C HIS to Next Service 0.0 0.0			Cotolo Th	Mooler				14/-	L Harrer	_				113.400	000.000			vveatner▶	olear and suriny, not in alternoon
		ı	otais inis	vveek: ▶	2166.300	113.400	/5.700	vvee	k mours:▶	19.4	A: A/C Hrs to	ivext Serv	ice			0.0	0.0		

Aircraft:	VH-TEM				17157.0	Hrs - Progre	essive M/I	R Hrs at the	e start of j	ob						Contr	act Number:	0
Ţ																	Job Name:	Lower Macquarie River
Total Job kms:		Kms															Area Names:	F4, N3
Proc. Reflight Kms:		Kms				Kms - Total		_		-							mmodation:	Country Comfort
Plan Kms Remain:		Kms			7054.100	Kms - Kms	remaining	ncluding	Proc. Ref	lights							Flying Base:	
% Complete:	47.14	%															Client:	
	qwertyuiopas			qwertyui		qwertyuiopa						qwertyuiopas		qwertyuiopa				qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro		me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 19-Mar	14	PH,JC	AE	163.800			7:03	8:44	1.7									
Julian Day 78									0.0									Turbulance caused early end to flight.
Mondov									0.0	+								
Monday									0.0	+								
				163.800	0.000	0.000			1.7	51.8	40.4	3912.600	113.400	566.600			Weather▶	Clear and Sunny, windy in afternoon
Date 20-Mar				103.800	0.000	0.000			0.0	31.0	70.7	3312.000	110.700	300.000			** Catricl	ological and oddiny, windy in ditember
Julian Day 79									0.0	†								
									0.0	1								
Tuesday									0.0	1								
1 1									0.0									
				0.000	0.000	0.000			0.0	51.8	40.4	3912.600	113.400	566.600			Weather▶	Clear and sunny, little cloud.
Date 21-Mar	15	PH,JC	AE,DG	777.000			6:46	11:39	4.9									
Julian Day 80									0.0									
W									0.0									
Wednesday									0.0	+								
l				777.000	0.000	0.000			4.9	46.9	45.3	4689.600	113.400	566.600			Weather▶	Cloudy
Date 22-Mar	16	PH,JC	AE,DG	234.000	0.000	78.000	6:49	9:19	2.5	40.9	40.0	4009.000	113.400	300.000			Weather	Cloudy
Julian Day 81	10	111,00	AL,DO	254.000		70.000	0.43	3.13	0.0	•								Turbulance caused early end of flight.
ounan Buy									0.0	†								The same of the sa
Thursday									0.0	1								
									0.0									
				234.000	0.000	78.000			2.5	44.4	47.8	4923.600	113.400	644.600			Weather▶	Clear and sunny, windy in afternoon.
Date 23-Mar	17	PH,JC	AE,DG	117.600	78.000	39.200	6:47	8:50	2.1									
Julian Day 82									0.0									
Fuldan									0.0	ļ								
Friday									0.0									
				117.600	78.000	39.200			2.1	42.3	49.9	5041,200	191,400	683.800			Weather▶	Cloudy, windy in afternoon
Date 24-Mar	18	PH,JC	AE,DG	665.700	70.000	78.300	6:45	11:35	4.8	72.0	40.0	3071.200	101.700	303.000			** Catricl	oloug, may in unomoon
Julian Day 83	.,	,	. 1.2,23	555.760		. 5.500	00		0.0	†								
' '									0.0	1								
Saturday									0.0]								
									0.0									
				665.700	0.000	78.300			4.8	37.5	54.7	5706.900	191.400	762.100			Weather▶	Cloudy, overcast, rain in afternoon
Date 25-Mar	19	PH,JC	AE,DG	314.600	78.300		5:41	9:08	3.5									
Julian Day 84									0.0	+								
Sunday									0.0	ł								
Sunday								-	0.0	ł								
1				314.600	78.300	0.000		 	3.5	34.0	58.2	6021.500	269.700	762.100			Weather▶	Overcast
<u> </u>	Т	otals This	Week: ►	2272.700	156.300	195.500	Wee	k Hours:▶	19.5	▲: A/C Hrs to			20000	. 0200	0.0	0.0	.70001101	1
	,			2272.700	100.000	100.000	1		10.0	1	5. •			ļ	0.0	0.0		

Total Job kms: Proc. Reflight Kms:								R Hrs at the								Contr	act Number:	0
																	Job Name:	Lower Macquarie River
Proc. Reflight Kms:	13345.300	Kms														Д	rea Names:	F4, N3
	0.000	Kms			13345.300	Kms - Total	Job Kms	including F	Proc. Refli	ghts						Acco	mmodation:	Country Comfort
Plan Kms Remain:	3896.100	Kms			3896.100	Kms - Kms	remaining	including	Proc. Refl	ights							Flying Base:	Dubbo Airport
% Complete:	70.81	%															Client:	BRS
qwertyui	qwertyuiopas			qwertyui	(qwertyuiopa	qwertyui	qwertyui	qwertyu	qwerty	qwertyui	qwertyuiopas	d	qwertyuiopa	qwertyuiop	qwertyuiop	· ·	qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro	Tiı	ne	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 26-Mar	20	PH,JC	AE,DG	772.900	39.400	39.400	5:45	10:54	5.2									
Julian Day 85									0.0									
									0.0									
Monday									0.0									
									0.0									
				772.900	39.400	39.400			5.2	28.8	63.4	6794.400	309.100	801.500			Weather▶	Clear and sunny, slight cloud cover in afternoon
Date 27-Mar Julian Dav 86									0.0									Dilete Day Off
Julian Day 86	-				 				0.0									Pilots Day Off
Tuesday									0.0									
rucsuay									0.0									
				0.000	0.000	0.000			0.0	28.8	63.4	6794.400	309.100	801.500			Weather▶	
Date 28-Mar									0.0									
Julian Day 87									0.0									New Pilot arrived in late afternoon, no survey flight
Ī									0.0									
Wednesday									0.0									
									0.0									
				0.000	0.000	0.000			0.0	28.8	63.4	6794.400	309.100	801.500			Weather►	
Date 29-Mar	21	PH,MH	DG	796.200			6:00	10:50	4.8									
Julian Day 88									0.0									
Thursday									0.0									
Thui Sudy									0.0									
				796.200	0.000	0.000			4.8	24.0	68.2	7590.600	309.100	801.500			Weather▶	Cloudy, overcast, light winds
Date 30-Mar	22	PH,MH	DG	378.000					0.0									
Julian Day 89									0.0									
[0.0									
Friday									0.0									
				070	0.555	0.000			0.0		20.0	7000 000	000.400	004.505	-		14/ //	Class Course high winds in affirmation
Date 31-Mar	22	PH,G	DG	378.000	0.000	0.000	8:33	12:49	0.0	24.0	68.2	7968.600	309.100	801.500			vveather▶	Clear, Sunny, high winds in afternoon
Date 31-Mar Julian Day 90	23	PH,G	DG	567.000	 		8:33	12:49	4.3 0.0									
Julian Day 90									0.0									
Saturday									0.0									
									0.0									
				567.000	0.000	0.000			4.3	19.7	72.5	8535.600	309.100	801.500			Weather▶	Clear and sunny, cloudy in afternoon
Date 1-Apr	24	PH,G	DG	151.200	453.300		6:02	10:50	4.8									Reflights from flight 3 and 4 flown
Julian Day 91									0.0									
									0.0									
Sunday									0.0									
				151.200	453.300	0.000			0.0 4.8	14.9	77.3	8686.800	762.400	801.500			\/\oathor >	Clear and sunny, windy in afternoon
		otala Thi-	Mook: 5				\A/c -1	. Hourous					102.400	001.000			vv eatrier >	olear and sunity, willdy in alternoon
		otals This	vveek: ►	2665.300	492.700	39.400	vveek	: Hours:▶	19.1	▲: A/C Hrs to	Next Serv	u e			0.0	0.0		

Aircraft:	VH-TEM				17157.0	Hrs - Progr	essive M/F	R Hrs at the	e start of j	ob						Contr	act Number:	0
•				'													Job Name:	Lower Macquarie River
Total Job kms:	13345.300	Kms														,	Area Names:	F4, N3
Proc. Reflight Kms:	0.000	Kms			13345.300	Kms - Tota	I Job Kms	including I	Proc. Refl	ights						Acco	mmodation:	Castleraegh Motel
Plan Kms Remain:						Kms - Kms											Flying Base:	Coonamble NSW
% Complete:	96.52	%															Client:	BRS
awertvui "	qwertyuiopas			qwertyui		qwertyuiopa	awertvui	awertvui	awertvu	awertv	awertvui	qwertyuiopas	d	qwertyuiopa	awertvuiop	awertvuiop		qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro		me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days	1	Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to	.,.			Crew movements etc
			initials	Reflights	today		· · ·		M/R	оросион	Date	Date	Date	Date				Grow moreomerne one
Date 2-Apr	25	PH, GH	DG	680.400	iouuj		6:13	10:49	4.6		Date	24.0	24.0	2410				
Julian Day 92		PH. GH	NIL	000.400			11:58	12:30	0.5	İ								FERRY TO DUBBO FOR 150HRLY MAINT
		PH, GH	AE				13:48	14:53	1.1									REFLY BORE HOLE LINE PROB WITH PNAV FILE
Monday		,							0.0	Ī								
									0.0	1								
				680.400	0.000	0.000			6.2	8.7	83.5	9367.200	762.400	801.500			Weather▶	wind
Date 3-Apr									0.0									150 HRLY MAINT AT DUBBO
Julian Day 93									0.0	Į								
									0.0									
Tuesday									0.0									
									0.0									
				0.000	0.000	0.000			0.0	8.7	83.5	9367.200	762.400	801.500			Weather▶	
Date 4-Apr									0.0	ļ								150 HRLY MAINT AT DUBBO
Julian Day 94									0.0									REPLACED WINCH MTR TIME EXP
Wednesday									0.0									
weunesuay									0.0	ł								
				0.000	0.000	0.000			0.0	8.7	83.5	9367.200	762.400	801.500			Weather▶	
Date 5-Apr	ferry	PH, GH	nil	0.000	0.000	0.000	6:04	6:40	0.6	0.7	00.0	0007.200	102.400	001.000			Weather	
Julian Day 95	27	PH, GH	DG	758.400			7:14	12:05	4.8									M/R TIME 17254.5
,									0.0	ĺ								
Thursday									0.0									NEW WINCH MOTOR FAILED ON RETREVAL
 									0.0									ENGR Dubbo TO Coonamble TO CHANGE
				758.400	0.000	0.000			5.4	3.3	88.9	10125.600	762.400	801.500			Weather▶	very windy
Date 6-Apr	28	PH,GH	DG	946.600			6:00	11:53	5.9									
Julian Day 96									0.0									
Falatan									0.0									
Friday									0.0	•								
				946.600	0.000	0.000			0.0 5.9	2.6	94.8	11072.200	762.400	801.500			Moothorb	very windy
Date 7-Apr	29	PH,GH	DG	737.000	81.900	101.900		-	0.0	-2.6	94.ŏ	11012.200	/0∠.400	001.500			Weather►	scrub HDD WRITE PROB LOST LINE & EM TRANSFER
Julian Day 97	29	ги,СП	טט	131.000	01.800	101.900			0.0	f								Proc scrub due turb / coil knocks
ounan Day 97									0.0	İ								1 100 00100 000 turb / Our knooko
										İ								LIMITED FUEL AVAIL FOR NEXT FLT DUE NO DELIVERY
Saturday									0.0									THROUGH EASTER
									0.0	<u> </u>								M/R TIME 17265.7
				737.000	81.900	101.900			0.0	-2.6	94.8	11809.200	844.300	903.400			Weather▶	very windy
Date 8-Apr	30	PH,GH	DG	227.000			6:08	8:33	2.4									M/R TIME 17268.1 LDGS 9140
Julian Day 98									0.0									NO FUEL REMAING DELAY ON DELIVERY DUE EASTER
									0.0									EXPECT TUESDAY
Sunday									0.0									
1									0.0									
				227.000	0.000	0.000			2.4	-5.0	97.2	12036.200	844.300	903.400			Weather▶	very windy
	T	otals This	Week: ▶	3349.400	81.900	101.900	Weel	k Hours:▶	19.9	▲: A/C Hrs to	Next Serv	ice			0.0	0.0		
			l.	_			•			•							•	

Aircraft:	VH-TEM				17157.0	Hrs - Progr	essive M/I	R Hrs at th	e start of	job						Contr	act Number:	:[0
•		•															Job Name:	: Lower Macquarie River
Total Job kms:	13345.300	Kms														,	Area Names:	F4, N3
Proc. Reflight Kms:	0.000	Kms			13345.300	Kms - Tota	I Job Kms	includina	Proc. Refl	iahts						Acc	mmodation:	COUNTRY COMFORT
Plan Kms Remain:	-1665.000	-				Kms - Kms												
% Complete:				'				,		3							Client:	
· .	qwertyuiopas			qwertyui		qwertyuiopa	awartwui	awartwii	awortvu	aworty.	awortwii	qwertyuiopas	d	qwertyuiopa	awartuuian	awort wion		qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro		me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
Date		initials			-	_	Take		-		Hrs	i iou.		Scrubs	_	ı	Activity	
		muais	board	excludes	Reflights	Scrub		Land	Hrs	Periodic			Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 9-Apr									0.0									
Julian Day 99									0.0									Waiting on fuel drums to arrive, contacted truck driver he
Julian Day 33										ļ								advised not possible until Wednesday afternoon
[0.0	1								Plan move to Dubbo to complete survey
Monday									0.0	1								Cancel fuel order
] .								ļ	0.0	ļ								<u> </u>
				0.000	0.000	0.000			0.0	-5.0	97.2	12036.200	844.300	903.400			Weather▶	
Date 10-Apr	Ferry	PH, GH					6:52	7:24	0.5	4								Reposition crew to Dubbo
Julian Day 100									0.0									<u> </u>
l <u>-</u>								ļ	0.0	4								4
Tuesday									0.0	1								
									0.0									
				0.000	0.000	0.000			0.5	-5.5	97.7	12036.200	844.300	903.400			Weather▶	
Date 11-Apr	31	PH, GH	DG	667.800			5:50	11:25	5.6									Long ferry to northern area Approx 2 hours total ferry
Julian Day 101									0.0	1								<u> </u>
W									0.0	1								
Wednesday									0.0	1								
									0.0						1			
2		B		667.800	0.000	0.000			5.6	-11.1	103.3	12704.000	844.300	903.400		ļ	Weather▶	
Date 12-Apr	32	PH, GH	DG	536.000			5:52	11:18	5.4	1								Long ferry to northern area Approx 2 hours total ferry
Julian Day 102									0.0	ļ								Complete northern area
Thursday									0.0									
Thursday									0.0									
				500,000	0.000	0.000				40.5	400.7	40040.000	044.000	000 400			10/46	ak
D	00	DIL OIL	D.O.	536.000	0.000	0.000	0.54	44.00	5.4	-16.5	108.7	13240.000	844.300	903.400			Weather▶	
Date 13-Apr Julian Day 103	33	PH, GH	DG	646.000			6:54	11:39	4.8 0.0									Commence south part of block M/R 17284.4 LDG 9144
Julian Day 103								-	0.0	+								W/R 17264.4 LDG 9144
Friday								1	0.0	1								+
I IIIay									0.0	1							—	
[646.000	0.000	0.000		 	4.8	-21.3	113.5	13886.000	844.300	903.400	1	I	Weather▶	ok
					0.000	0.000				-21.5	110.0	10000.000	J-7000	303.700	·		** Cau ici	Return early very turbulent condits possible data issues
Date 14-Apr	34	PH, GH	DG	280.000			6:24	8:54	2.5	1								The same of the sa
Julian Day 104								 	0.0	†								
104									0.0	1								
Saturday									0.0	1								1
									0.0	1								1
]				280.000	0.000	0.000			2.5	-23.8	116.0	14166.000	844.300	903.400			Weather▶	very windy
Date 15-Apr	35	PH, GH	DG	0.000			5:58	7:32	1.6							•		very high spherics in all directions no lines flown
Julian Day 105		PH, GH		2.200			18:19	18:58	0.7	1								night currency circuits
' ' '		,							0.0	1								1
Sunday									0.0	1								
								1	0.0	1								1
				0.000	0.000	0.000			2.3	-26.1	118.3	14166.000	844.300	903.400			Weather▶	1
	1	Totals This	Week: ▶	2129.800	0.000	0.000	Wee	k Hours:▶		▲: A/C Hrs to					0.0	0.0		
				2123.000	0.000	0.000				1 =:/:01::010				ļ	0.0	1 0.0		

Aircraft:	VH-TEM				17157.0	Hrs - Progr	essive M/I	R Hrs at th	e start of j	ob						Contr	ract Number:	0
																	Job Name:	Lower Macquarie River
Total Job kms:	13345.300	Kms														,	Area Names:	F4, N3
Proc. Reflight Kms:	0.000	Kms				Kms - Tota										Acc	ommodation:	COUNTRY COMFORT
Plan Kms Remain:		Kms			-3816.900	Kms - Kms	remaining	g including	Proc. Ref	lights							Flying Base:	
% Complete:	128.60	%															Client:	
qwertyui	qwertyuiopas			qwertyui		qwertyuiopa	qwertyui	qwertyui	qwertyu	qwerty	qwertyui	qwertyuiopas	d	qwertyuiopa	qwertyuiop	qwertyuiop		qwertyuiopasdfghjklzxcvbnm qwertyuiopasdfghjklzxcvb
Date	Flt	Pilot	On	Production	Processing	Fugro	Ti	me	Flt	Hours to	Job	Prod.	Proc.	Scrubs	Stdby	Lost	Activity	COMMENTS
		initials	board	excludes	Reflights	Scrub	Take	Land	Hrs	Periodic	Hrs		Reflights		Days	Days		Weather, Data delivery, Safety Meetings
			Oper	Scrubs &	flown		Off		on	Inspection	to	to	to	to				Crew movements etc
			initials	Reflights	today				M/R		Date	Date	Date	Date				
Date 16-Apr	PDO								0.0									
Julian Day 106									0.0	İ								
, , , , , , , , , , , , , , , , , , ,									0.0	ĺ								
Monday									0.0									
1									0.0									
				0.000	0.000	0.000			0.0	-26.1	118.3	14166.000	844.300	903.400			Weather▶	
Date 17-Apr	36	PH, GH	DG	658.000			5:59	10:39	4.7									
Julian Day 107									0.0	Į								
1									0.0									
Tuesday									0.0									D.Carden IN
									0.0			1						
				658.000	0.000	0.000			4.7	-30.8	123.0	14824.000	844.300	903.400			Weather▶	ok / turbulent
Date 18-Apr	37	PH, GH	DG	810.000			5:50	10:47	5.0									
Julian Day 108									0.0									
Wednesday.									0.0									M/D 47000 0 L DO 0454
Wednesday									0.0									M/R 17298.9 LDG 9151 M. Harradence IN
				810.000	0.000	0.000			5.0	-35.8	128.0	15634.000	844.300	903.400	1	1	Moothork	ok / becoming turbulent
Date 19-Apr	38	PH, GH	DG	683.900	0.000	0.000			0.0	-35.6	120.0	15034.000	044.300	903.400			weather	ok / becoming turbulent
Julian Day 109	30	РП, СП	DG	003.900				-	0.0	ł								T. Wilhelmi IN
Julian Day 109									0.0	1								M/R 17303.6 LDG 9152
Thursday									0.0									WIII 17000.0 EBC 0102
1 mar sauy									0.0									Area completed
				683.900	0.000	0.000			0.0	-35.8	128.0	16317.900	844.300	903.400			Weather▶	ok / becoming turbulent
Date 20-Apr									0.0	-								, 3
Julian Day 110									0.0	İ								Wait for confirmation of data prior to de-mob
									0.0	I								Maint on aircraft brakes and rear door hyd lines
Friday									0.0									Maint on EM das
[0.0									Maint on External power Inverter
				0.000	0.000	0.000			0.0	-35.8	128.0	16317.900	844.300	903.400			Weather▶	
Date 21-Apr	Т	W, PH, M	Н				12:59	14:28	1.5									
Julian Day 111								ļ	0.0	1								Wait for confirmation of data prior to de-mob
Catumalass				ļ					0.0	ł								Tarining flights Highing Milledon Home
Saturday				ļ				 	0.0	ł								Training flights Hiskins, Wilhelmi, Harradence
				0.000	0.000	0.000			0.0	27.0	400.5	40047.000	044.000	000 400			10/4	
Date 22-Apr				0.000	0.000	0.000		1	1.5 0.0	-37.3	129.5	16317.900	844.300	903.400		<u> </u>	Weather▶	
Julian Day 112								 	0.0	ł								
Julian Day 112									0.0	ł								
Sunday									0.0	İ								
Julian				1				1	0.0	1								
				0.000	0.000	0.000			0.0	-37.3	129.5	16317.900	844.300	903.400			Weather▶	
	Т	otals This	Week: ▶	2151.900	0.000	0.000	Wee	k Hours:▶	11.2	▲: A/C Hrs to					0.0	0.0		
				2101.800	0.000	0.000	1				5				0.0	0.0	J	

APPENDIX III – Flight Summary (Line Listing)

Notes on Line numbers included below:

60FF – pre-flight barometer calibration for flight FF

61FF -- post=-flight barometer calibration for flight FF

70FF – pre-flight 'zero' calibration line for flight FFf

71FF - post-flight 'zero' calibration line for flight FF

9000-9006 – other pre/post flight EM calibrations (See Chapter 4)

18?? – magnetic compensation lines

81FF-89FF – repeat/seismic/borehole line from flight FF

1001-1268 - Area S1

2001-2621 - Area N1-3/L1-6

Shorts Skyvan - VH-WGT

Flight	Date (yyyymmdd)	Line	Direction	Start Fid	End Fid	Start Time	End Time
	(www.mmdd)						
	(yyyiiiiida)						
6	20070116	6006	N	1	100	8:28:49	8:30:28
6	20070116	1810	N	1356	1588	10:12:10	10:16:02
6	20070116	1811	Е	1589	1874	10:17:08	10:21:53
6	20070116	1812	S	1875	2157	10:22:39	10:27:21
6	20070116	1813	W	2158	2442	10:28:35	10:33:19
6	20070116	6106	N	2443	2534	10:47:29	10:49:00
8	20070117	6008	N	1	90	6:55:54	6:57:24
8	20070117	9000.1	S	391	480	7:24:14	7:25:44
8	20070117	9001.1	S	481	570	7:26:40	7:28:10
8	20070117	7008.1	S	571	660	7:28:49	7:30:19
8	20070117	9003	N	661	713	7:31:02	7:31:55
8	20070117	8608	N	714	804	7:39:16	7:40:47
8	20070117	8608.1	S	805	897	7:43:01	7:44:34
8	20070117	1268	N	898	1118	7:51:49	7:55:30
8	20070117	1265	S	1578	1793	8:08:15	8:11:51
8	20070117	1264	N	1794	2026	8:13:11	8:17:04
8	20070117	9004	N	2027	2116	8:21:53	8:23:23
8	20070117	7108	N	2117	2206	8:24:47	8:26:17
8	20070117	9006	N	2207	2296	8:27:19	8:28:49
8	20070117	6108	N	2444	2533	9:16:56	9:18:26
9	20070118	6009	N	1	60	6:50:55	6:51:55
9	20070118	9000	N	61	150	7:08:02	7:09:32
9	20070118	9001	W	151	240	7:11:41	7:13:11
9	20070118	7009	S	241	330	7:14:47	7:16:17
9	20070118	9003	S	331	442	7:16:49	7:18:41
9	20070118	8109	N	443	801	7:26:44	7:32:43
9	20070118	8209	S	802	1044	7:37:54	7:41:57
9	20070118	8309	W	1045	1288	7:52:48	7:56:52
9	20070118	9004.1	N	2085	2174	8:38:34	8:40:04
9	20070118	7109	N	2175	2264	8:40:53	8:42:23
9	20070118	9006	N	2265	2354	8:43:05	8:44:35
9	20070118	6109	N	1	60	9:25:41	9:26:41
12	20070121	6012	N	1	60	6:55:08	6:56:08
12	20070121	9000	N	61	150	7:09:51	7:11:21
12	20070121	9001	N	151	240	7:12:16	7:13:46
12	20070121	7012	Ν	241	330	7:14:24	7:15:54
12	20070121	9003	Ν	331	400	7:16:37	7:17:47
12	20070121	8612	N	401	569	7:36:28	7:39:17
12	20070121	9004	N	570	659	7:46:34	7:48:04

12	20070121	7112	N	660	749	7:48:46	7:50:16
12	20070121	9006	S	750	839	7:51:28	7:52:58
12	20070121	6112	N	1	59	8:27:37	8:28:36
16	20070124	6016	N	1	91	6:53:56	6:55:27
16	20070124	9000	N	92	181	7:09:50	7:11:20
16	20070124	7016	N	272	363	7:15:28	7:17:00
16	20070124	9001.1	N	364	453	7:18:21	7:17:00 7:19:51
16	20070124	9003	N	454	527	7:10:21	7:19:31
16	20070124	8516.1	E	773	963	8:02:42	8:05:53
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46	20070302	7046	W	301	390	7:41:14	7:42:44
46	20070302	9003	W	391	450	7:41:14	7:42:44
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76	20070410	6176	N	1	120	8:54:48	8:56:48
77	20070410	6077	N	1	120	9:37:53	9:39:53
77	20070410	9000	W	121	210	10:04:50	10:06:20
77	20070410	9001	W	211	300	10:06:54	10:08:24
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78	20070411	2487	W	4805	5625	8:12:23	8:26:04
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Casa 212-200 - VH-TEM

	<u> </u>							
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	1	20070301	9001	E	211	300	0.296852	7:08:58
	1	20070301	7001	E	301	390	0.298368	7:11:09
	1	20070301	9003	E	391	428	0.299873	7:12:27

1	20070301	1811	N	509	726	0.316262	7:39:03
1	20070301	1812	W	727	942	0.319734	7:44:01
1	20070301	1813	S	1080	1292	0.325162	7:51:47
1	20070301	1814	E	1293	1504	0.328125	7:56:02
1	20070301	8601	S	1290	111	0.326723	8:21:10
			N	112			
1	20070301	8401			579	0.352535	8:35:27
1	20070301	8501	S	580	935	0.372488	9:02:19
1	20070301	7101	E	936	1025	0.380208	9:09:00
1	20070301	9004	E	1026	1115	0.381829	9:11:20
1	20070301	9006	Е	1116	1205	0.383472	9:13:42
1	20070301	6101	Ν	1	120	0.433287	10:25:56
2	20070302	6002	N	1	120	0.297407	7:10:16
2	20070302	9000	W	121	210	0.309236	7:26:48
2	20070302	9001	W	211	300	0.310961	7:29:17
2	20070302	7002	W	301	390	0.312581	7:31:37
2	20070302	9003	W	391	440	0.314144	7:33:12
2	20070302	2425	W	441	1014	0.323322	7:55:09
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2	20070302	2423	W	1653	2219	0.340405	8:19:38
2	20070302	2422	E	2220	2877	0.348889	8:33:22
2	20070302	8702	W	2878	2982	0.360428	8:40:46
2	20070302	7102	E VV	2983	3072	0.36588	8:48:22
2	20070302	9004	E	3073	3162	0.367662	8:50:56
2	20070302	9004	E	3163	3252	0.367002	8:53:09
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3	20070303	9001	W	211	300	0.275081	6:37:37
3	20070303	7003	W	301	390	0.276655	6:39:53
3	20070303	9003	W	391	437	0.278113	6:41:16
3	20070303	2421	W	438	1032	0.290567	7:08:20
3	20070303	2420	Е	1033	1694	0.300521	7:23:47
3	20070303	2419	W	1695	2238	0.309375	7:34:35
3	20070303	2418	Е	2240	2884	0.31684	7:47:00
3	20070303	2417	W	2885	3419	0.325694	7:57:55
3	20070303	2416	Е	3420	4067	0.333715	8:11:21
3	20070303	2415	W	4068	4634	0.342361	8:22:27
3	20070303	7103	Е	4635	4724	0.352639	8:29:18
3	20070303	9004	E	4725	4814	0.354421	8:31:52
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4	20070304	9001	W	335	424	0.297616	7:10:04
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4	20070304	9003	W	515	577	0.300903	7:14:21
4	20070304	2414	Е	578	1176	0.315683	7:44:34
4	20070304	2413	W	1177	1796	0.324919	7:58:13
4	20070304	2412	Е	1797	2388	0.333183	8:09:39
4	20070304	2411	W	2389	2973	0.341088	8:20:55
4	20070304	2410	Е	2974	3573	0.349063	8:32:39
4	20070304	2409	W	1	583	0.358657	8:46:11
4	20070304	2408	Ε	584	1212	0.366539	8:58:18
4	20070304	2407	W	1213	1787	0.37485	9:09:22
4	20070304	2406	Е	1788	2410	0.382778	9:21:35
4	20070304	2405	W	2411	2986	0.391516	9:33:23
4	20070304	2404	E	2987	3620	0.399294	9:45:33
			_				

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4	20070304	2403	W	3621	4210	0.407512	9:56:39
4	20070304	2402	Е	4211	4844	0.415938	10:09:31
4	20070304	8704	W	4845	4913	0.426817	10:15:46
4	20070304	7104	Е	4914	5003	0.431713	10:23:10
4	20070304	9004	E	5004	5093	0.433356	10:25:32
4	20070304	9006.1	E	5100	5189	0.435521	10:28:39
4	20070304	6104	N	5190	5309	0.453321	10:51:33
7	20070310	6007	N	1	120	0.274838	6:37:46
7	20070310	9000	W	121	210	0.285301	6:52:20
7	20070310	9001	W	211	300	0.287014	6:54:48
7	20070310	7007	W	301	390	0.288681	6:57:12
7	20070310	9003	W	391	450	0.290023	6:58:38
7	20070310	2371	W	451	985	0.301944	7:23:43
7	20070310	2370	Е	986	1661	0.309907	7:37:32
7	20070310	2369	W	1662	2216	0.319259	7:48:59
7	20070310	2368	Е	2217	2888	0.327292	8:02:30
7	20070310	2367	W	2889	3451	0.336308	8:13:40
7	20070310	2366	Ε	3452	4113	0.343993	8:26:23
7	20070310	2365	W	4114	4699	0.353044	8:38:09
7	20070310	2364	Е	4700	5342	0.361609	8:51:26
7	20070310	2363	W	5343	5909	0.370185	9:02:31
7	20070310	2362	E	5910	6534	0.378021	9:14:46
7	20070310	2361	W	6535	7113	0.386921	9:26:49
7	20070310	2360	E	7114	7752	0.395162	9:39:41
7	20070310	2359	W	7753	8321	0.403507	9:50:32
7	20070310	2358	E	8322	8963	0.411262	10:02:55
7	20070310	2357.1	W	9028	9597	0.411202	10:02:33
7	20070310	2357.1	E VV	9598	10233	0.422743	10:16:15
7			E				
	20070310	8707		10234	10361	0.443368	10:40:35
7	20070310	7107	E	10362	10451	0.448079	10:46:44
7	20070310	9004	E	10452	10541	0.449572	10:48:53
7	20070310	9006	E	10542	10631	0.451319	10:51:24
7	20070310	6107	N	10632	10751	0.467292	11:14:54
8	20070311	6008	N	1	120	0.286551	6:54:38
8	20070311	9000	W	121	210	0.296447	7:08:23
8	20070311	9001	W	211	300	0.298206	7:10:55
8	20070311	7008	W	301	390	0.299769	7:13:10
8	20070311	9003	W	391	438	0.301215	7:14:33
8	20070311	2401	W	439	1804	0.312095	7:52:11
8	20070311	2398	E	1805	3129	0.329931	8:17:11
8	20070311	2399	W	3130	3737	0.346887	8:29:39
8	20070311	2400	E	3738	4310	0.355324	8:41:13
8	20070311	2395	W	4311	5752	0.364653	9:09:08
8	20070311	2392	E	5753	7138	0.382546	9:33:58
8	20070311	2397	W	7139	7750	0.400081	9:46:19
8	20070311	2396	E	7751	8335	0.408958	9:58:39
8	20070311	7108	E	1	90	0.434456	10:27:07
8	20070311	9004	E	91	180	0.435856	10:27:07
8	20070311	9004	E	181	270	0.437535	10:23:00
8	20070311	6108	N	271	390	0.457555	11:00:27
9	20070312	6009	N	1	120	0.280984	6:46:37
9	20070312	9000	W	121	210	0.296215	7:08:03
9	20070312	9001	W	211	300	0.298067	7:10:43
9	20070312	7009	W	301	390	0.299815	7:13:14
9	20070312	9003	W	391	450	0.301366	7:14:58
9	20070312	2423.1	W	451	1070	0.31184	7:39:23
9	20070312	2422.1	E E	1071 2235	1623	0.320833	7:51:13
9	20070312	2394.1			2837	0.34169	8:22:05

	00070040	7400	. –	l a		0.050007	0.00.40
9	20070312	7109	E	1	95	0.353287	8:30:19
9	20070312	9004	E	96	185	0.354942	8:32:37
9	20070312	9006	E	186	275	0.356655	8:35:05
9	20070312	6109	N	276	395	0.371863	8:57:29
10	20070314	6010	N	1	120	0.273611	6:36:00
10	20070314	9000	W	121	210	0.286979	6:54:45
10	20070314	9001	W	211	300	0.290787	7:00:14
10	20070314	7010	W	301	390	0.29272	7:03:01
10	20070314	9003	W	391	444	0.294259	7:04:38
10	20070314	2393.1	W	1761	2319	0.329919	8:04:24
10	20070314	2388	Е	2320	2990	0.337789	8:17:36
10	20070314	2389	W	2991	4323	0.347153	8:42:07
10	20070314	2386	Е	4324	5894	0.363738	9:09:58
10	20070314	2387	W	5895	6494	0.383542	9:22:18
10	20070314	2384	E	6495	7192	0.392326	9:36:35
10	20070314	2383	W	7193	8428	0.401863	9:59:17
10	20070314	2380	E	8429	9919	0.418044	10:26:50
10	20070314	8710	W	9920	10026	0.438252	10:32:52
10	20070314	7110	E	10027	10116	0.44316	10:32:32
10	20070314	9004	E	10027	10206	0.444664	10:39:39
10	20070314	9004	E	10117	10200	0.446285	10:44:09
10	20070314	6110	N	10207	10296		11:08:06
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11	20070315	6011	S	121	128	0.296713	7:07:24
11	20070315	9000	W	129	248	0.297535	7:10:27
11	20070315	9001	E	339	428	0.303229	7:18:09
11	20070315	7011	W	429	518	0.30515	7:20:55
11	20070315	9003	W	519	573	0.307188	7:23:16
11	20070315	2385	W	574	1140	0.320938	7:51:36
11	20070315	2382	Е	1141	1811	0.331273	8:08:13
11	20070315	2381	W	1812	2391	0.340799	8:20:25
11	20070315	7111	W	1	90	0.351169	8:27:11
11	20070315	9004	W	91	180	0.353495	8:30:32
11	20070315	9006	W	181	270	0.355498	8:33:25
11	20070315	6111	N	271	390	0.395069	9:30:54
12	20070317	6012	S	1	120	0.277986	6:42:18
12	20070317	9000	W	121	210	0.289468	6:58:20
12	20070317	9001	W	211	300	0.291331	7:01:01
12	20070317	7012	W	301	390	0.293125	7:03:36
12	20070317	9003	W	391	448	0.294421	7:04:56
12	20070317	2379	W	449	1100	0.304433	7:29:15
12	20070317	2378	Ε	1101	1702	0.313542	7:41:32
12	20070317	2377	W	1703	2336	0.321586	7:53:39
12	20070317	2376	E	2337	2927	0.330139	8:05:15
12	20070317	2375	W	2928	3527	0.338947	8:18:05
12	20070317	2374	E	3528	4100	0.346956	8:29:10
12	20070317	2373	W	4101	4736	0.355162	8:42:02
12	20070317	2372	E	4737	5310	0.364132	8:53:55
12	20070317	2355	W	5311	5916	0.372419	9:06:23
12	20070317	2354	E	5917	6500	0.380775	9:18:03
12	20070317	2353	W	6501	7096	0.389178	9:30:21
12	20070317	2352	E	7097	7674	0.397581	9:42:09
12	20070317	2351	W	7675	8300	0.405938	9:54:59
12	20070317	2350	E	8301	8887	0.414514	10:06:41
12	20070317	2349	W	8888	9500	0.422593	10:00:41
12	20070317	2348	E	9501	10082	0.422393	10:10:43
12	20070317	2347	W	10083	10664	0.438542	10:29:49
12	20070317	2347	E VV	10665	11244	0.436342	10:41:12
12	20070317	2345	W	11245	11837	0.446169	10.52.09
12	20070317	2345	٧٧	11245	1103/	0.45412	11.03.49

1 40	00070047	0044	l –	14000	10440	0.400004	1 44.45.40
12	20070317	2344	E	11838	12440	0.462234	11:15:40
12	20070317	2343	W	12441	13035	0.470255	11:27:05
12	20070317	2342	E	13036	13625	0.478241	11:38:30
12	20070317	7112	Е	13626	13715	0.488611	11:45:06
12	20070317	9004	Е	13716	13805	0.490081	11:47:13
12	20070317	9006	E	13806	13896	0.491609	11:49:26
12	20070317	6112	S	13897	14016	0.503275	12:06:43
13	20070318	6013	S	1	120	0.278403	6:42:54
13	20070318	9000.1	W	126	215	0.28735	6:55:17
13	20070318	9001	W	216	305	0.289282	6:58:04
13	20070318	7013	W	306	395	0.290891	7:00:23
13	20070318	9003	W	396	439	0.29235	7:00:20
13	20070318	2341	W	440	1018	0.300625	7:22:33
13	20070318	2340	E	1019	1726	0.308519	7:36:04
13	20070318	2339	W	1727	2312	0.317998	7:47:41
13	20070318	2338	E	2313	3031	0.325961	8:01:22
13	20070318	2337	W	3032	3611	0.335694	8:13:04
13	20070318	2336	Е	3612	4280	0.343727	8:26:07
13	20070318	2335	W	4281	4844	0.352407	8:36:52
13	20070318	2334	E	4845	5528	0.359826	8:49:33
13	20070318	2333	W	5529	6100	0.3689	9:00:45
13	20070318	2332	E	6101	6765	0.376331	9:13:00
13	20070318	2331	W	6766	7333	0.385451	9:24:31
13	20070318	2330	Е	7334	7999	0.393148	9:37:14
13	20070318	2329	W	8000	8571	0.402546	9:49:12
13	20070318	2328	E	8572	9222	0.410451	10:01:54
13	20070318	2327	W	9223	9794	0.419317	10:13:21
13	20070318	2326	E	9795	10456	0.427257	10:26:17
13	20070318	2325	W	10457	11015	0.427237	10:20:17
13	20070318	2324	E	11016	11670	0.433904	10:37:06
13	20070318	8713	E	11792	11936	0.44333	11:06:16
13	20070318	7113	E	11937	12026	0.466169	11:12:47
13	20070318	9004	E	12027	12116	0.467928	11:15:19
13	20070318	9006	E	12117	12206	0.469456	11:17:31
13	20070318	6113	S	12207	12327	0.482407	11:36:41
15	20070321	6015	S	1	120	0.278171	6:42:34
15	20070321	9000	W	121	210	0.290208	6:59:24
15	20070321	9001	W	211	300	0.29235	7:02:29
15	20070321	7015	W	301	390	0.29419	7:05:08
15	20070321	9003	W	391	447	0.295602	7:06:37
15	20070321	2323	W	448	1102	0.302894	7:27:05
15	20070321	2322	Е	1103	1703	0.311644	7:38:47
15	20070321	2321	W	1704	2351	0.320093	7:51:44
15	20070321	2320	E	2352	2956	0.328669	8:03:22
15	20070321	2319	W	2957	3605	0.337338	8:16:35
15	20070321	2318	E	3606	4200	0.346192	8:28:26
15	20070321	2317	W	4201	4821	0.35441	8:40:42
15	20070321	2317	E	4822	5428	0.363044	8:52:54
15	20070321	2315	W	5429	6043	0.303044	9:04:46
			VV E				
15 15	20070321	2314		6044	6660	0.379549	9:16:50
15	20070321	2313	W	6661	7270	0.388148	9:29:06
15	20070321	2312	E	7271	7886	0.39625	9:40:52
15	20070321	2311	W	7887	8497	0.404792	9:53:05
15	20070321	2310	E	8498	9104	0.412859	10:04:38
15	20070321	2309	W	9105	9706	0.420926	10:16:10
15	20070321	2308	E	9707	10331	0.429225	10:28:30
15	20070321	2307	W	10332	10924	0.438009	10:40:37
15	20070321	2306	Е	10925	11525	0.44603	10:52:18

	54433 11:04:12
1 15 20070321 2304 F 12115 12721 0.4	11.07.12
10 20070021 2004 L 12110 12721 0.4	62141 11:15:36
15 20070321 7115 E 12722 12811 0.4	73032 11:22:40
	74537 11:24:50
	76389 11:27:30
	88009 11:44:44
	281516 6:47:23
16 20070322 9001 W 1 90 0.2	94352 7:05:22
16 20070322 7016 W 91 180 0.2	96204 7:08:02
16 20070322 9003 W 181 226 0.2	97824 7:09:38
	302928 7:25:53
	310706 7:39:06
	319919 7:50:12
	8:02:24
	846921 8:30:41
16 20070322 2297 W 3968 4561 0.3	856111 8:42:42
16 20070322 7116 E 5206 5295 0.3	375463 9:02:10
	37728 9:04:47
	379178 9:07:31
	9:25:39
	278542 6:43:06
	.2886 6:57:05
17 20070323 9001 W 218 307 0.2	90405 6:59:41
17 20070323 7017 W 308 397 0.2	92257 7:02:21
17 20070323 9003 W 398 439 0.2	93947 7:03:59
	300058 7:21:49
	307894 7:34:25
	318148 7:47:56
	8:12:46
	843715 8:25:42
	855405 8:33:17
	8:35:37
17 20070323 9006 E 4389 4478 0.3	858958 8:38:24
17 20070323 6117 S 4479 4598 0.3	370463 8:55:28
	276273 6:39:50
	287188 6:55:04
	89352 6:58:10
	.2911 7:00:41
	292639 7:02:22
	99641 7:13:15
18 20070324 2295 W 556 1153 0.3	7:33:41
18 20070324 2294 E 1154 1835 0.3	316412 7:47:00
	325532 7:58:47
	333588 8:11:05
	342083 8:22:35
	850139 8:34:58
	866991 8:59:08
	9:10:28
18 20070324 2286 E 6160 6784 0.3	882975 9:21:54
18 20070324 2281 W 6785 7390 0.3	9:33:19
	07141 9:56:37
	15567 10:08:37
	42441 10:21:41
	33102 10:33:40
• 10 ZUUZUZE ZZZO E MOZO 104/Z U4	
18 20070324 2275 W 10473 11122 0.4	41782 10:47:00
18 20070324 2275 W 10473 11122 0.4 18 20070324 2276 E 11123 11681 0.4	50579 10:58:09
18 20070324 2275 W 10473 11122 0.4 18 20070324 2276 E 11123 11681 0.4 18 20070324 2273 W 11682 12350 0.4	

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18	20070324	9004	Е	12441	12530	0.472222	11:21:30
18	20070324	9006	Е	12531	12620	0.47419	11:24:20
18	20070324	6118	S	12621	12740	0.486007	11:41:51
19	20070325	6019	S	1	129	0.274583	6:37:33
19	20070325	9000	W	130	219	0.284873	6:51:43
19	20070325	9001	W	220	309	0.286863	6:54:35
19	20070325	7019	W	310	399	0.288657	6:57:10
19	20070325	9003	W	400	450	0.290266	6:58:50
19	20070325	2289.1	W	451	1103	0.297373	7:19:06
19	20070325	2284.3	E	1104	1701	0.30765	7:32:59
19	20070325	2271	W	1702	2362	0.316053	7:46:08
19	20070325	2274	E	2363	2989	0.324896	7:58:18
19	20070325	2269	W	2990	3673	0.333993	8:12:21
19	20070325	2272	E	3674	4299	0.343345	8:24:51
19	20070325	2267	W	4300	4974	0.352488	8:38:50
19	20070325	2270	E	4975	5620	0.361574	8:51:26
19	20070325	2268	E	5665	6289	0.380729	9:18:40
19	20070325	2266	E	6290	6895	0.399676	9:45:38
			E				
19 19	20070325 20070325	7119 9004	E	6896 6986	6985 7075	0.410139 0.411782	9:52:06 9:54:28
			E				
19	20070325	9006		7076	7165	0.413565	9:57:02
19	20070325	6119	S	7166	7285	0.425613	10:14:53
20	20070326	6020	S	1	120	0.277593	6:41:44
20	20070326	9000	W	121	210	0.288032	6:56:16
20	20070326	9001	W	211	300	0.290035	6:59:09
20	20070326	7020	W	301	390	0.29162	7:01:26
20	20070326	9003	W	391	440	0.292998	7:02:45
20	20070326	2263	Е	1029	1727	0.305486	7:31:34
20	20070326	2265.1	W	1729	2314	0.315185	7:43:38
20	20070326	2259	E	2315	2995	0.323044	7:56:32
20	20070326	2261	W	2996	3580	0.332199	8:08:07
20	20070326	2255	Е	3581	4289	0.34044	8:22:03
20	20070326	2257	W	4290	4887	0.349618	8:33:25
20	20070326	2251	Е	4888	5582	0.357801	8:46:49
20	20070326	2253	W	5583	6185	0.366944	8:58:27
20	20070326	2247	Е	6186	6864	0.375231	9:11:39
20	20070326	2249	W	6865	7466	0.384236	9:23:20
20	20070326	2243	Е	7467	8110	0.392766	9:36:19
20	20070326	2241	W	8111	9246	0.402002	9:57:49
20	20070326	2239	Е	9247	10546	0.416273	10:21:06
20	20070326	2237	W	10547	11610	0.432604	10:40:41
20	20070326	2235	E	11611	12883	0.446088	11:03:35
20	20070326	2221	W	12884	13415	0.462523	11:14:54
20	20070326	2223	E	13416	14080	0.469965	11:27:50
20	20070326	8820	W	14081	14183	0.480116	11:33:05
20	20070326	7120	E	14184	14273	0.484225	11:38:47
20	20070326	9004	E	14274	14363	0.485718	11:40:56
20	20070326	9006	E	14364	14453	0.487407	11:43:22
20	20070326	6120	S	14454	14579	0.4989	12:00:31
21	20070320	6021	S	1	120	0.4909	5:56:21
21	20070329	9000	W	121	210	0.246076	6:11:33
21	20070329	9000	W	211	300	0.259699	6:11:33
					390		
21	20070329	7021	W	301		0.261551	6:18:08
21	20070329	9003	W	391	445	0.262975	6:19:36
21	20070329	2245	W	446	1052	0.268148	6:36:15
21	20070329	2219	E	1053	1637	0.277072	6:48:44
21	20070329	2233	W	1638	2760	0.285266	7:09:30
21	20070329	2231	Е	2761	3960	0.299363	7:31:05

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23 20070331 2157 W 7776 8395 0.481644 11:43:54 23 20070331 2151 E 8396 9023 0.490197 11:56:21 23 20070331 2153 W 9024 9638 0.499039 12:08:52 23 20070331 2147 E 9639 10253 0.507245 12:20:41 23 20070331 7123 E 10254 10343 0.51765 12:26:55	23	20070331	2155	E	7165	7775	0.473333	11:31:47
23 20070331 2151 E 8396 9023 0.490197 11:56:21 23 20070331 2153 W 9024 9638 0.499039 12:08:52 23 20070331 2147 E 9639 10253 0.507245 12:20:41 23 20070331 7123 E 10254 10343 0.51765 12:26:55								
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24	20070401	7024	W	355	444	0.269352	6:29:22
24	20070401	9003	W	445	497	0.270972	6:31:05
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24	20070401	2149.1	W	8510	9053	0.419097	10:12:34
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25 25	20070402	2125	E VV	7033	7660	0.366204	8:57:48
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25 25	20070402	2121	W	7661			9:08:20
25	20070402	2111	E	8231	8868	0.381968	9:20:40
25	20070402	2117	W	8869	9434	0.390127	9:31:13
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25	20070402	2103	E	10636	11251	0.415648	10:08:48
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25	20070402	7125	Е	11823	11912	0.433449	10:25:40
25	20070402	9004	Е	11913	12002	0.434896	10:27:45
25	20070402	9006	Е	12003	12092	0.436586	10:30:11
25	20070402	6125	S	12093	12212	0.452465	10:53:33
27	20070405	6027	S	1	120	0.296875	7:09:30
27	20070405	9000	W	121	210	0.306516	7:22:53
27	20070405	9001	W	211	300	0.308449	7:25:40
27	20070405	7027	W	301	390	0.310243	7:28:15
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27	20070405	9003	W	391	447	0.31162	7:29:41
27	20070405	8927	W	448	586	0.316655	7:38:18
27	20070405	2105	W	587	1212	0.321887	7:53:57
27	20070405	2099	E	1213	1852	0.330868	8:07:07
27	20070405	2101	W	1853	2484	0.339769	8:19:48
27	20070405	2095	Е	2485	3114	0.348507	8:32:21
27	20070405	2089	W	3115	4327	0.357778	8:55:25
27	20070405	2087	E	4328	5537	0.373449	9:17:56
27	20070405	2085	W	5538	6717	0.389306	9:40:16
27	20070405	2083.1	Е	7020	8162	0.412442	10:12:58
27	20070405	2081	W	8163	9383	0.426898	10:35:05
27	20070405	2079	E	9384	10516	0.420090	10:55:08
27	20070405	2077	W	10517	11727	0.455914	11:16:42
27	20070405	2075	Е	11728	12864	0.471065	11:37:17
27	20070405	7127	Е	12865	12954	0.487257	11:43:09
27	20070405	9004	E	12955	13044	0.488831	11:45:25
27	20070405	9006	E	13045	13134	0.490521	11:47:51
27	20070405	6127	S	13135	13254	0.505231	12:09:32
28	20070406	6028	S	1	120	0.246343	5:56:44
28	20070406	9000	W	121	210	0.246343	6:10:19
28	20070406	9001	W	211	300	0.257963	6:12:58
28	20070406	7028	W	301	390	0.259606	6:15:20
28	20070406	9003	W	391	450	0.2611	6:16:59
28	20070406	2073	W	451	1641	0.267072	6:44:26
28	20070406	2071	E	1642	2799	0.282188	7:05:39
28	20070406	2069	W	2800	3965	0.29662	7:26:34
28	20070406	2091	Е	3966	5131	0.312164	7:48:57
28	20070406	2097	W	5132	5755	0.327014	8:01:18
28	20070406	2067	E	5756	6392	0.327014	8:15:02
28	20070406	2065	W	6393	7011	0.344907	8:26:59
28	20070406	2063	Е	7012	7651	0.353877	8:40:16
28	20070406	2061	W	7653	8271	0.362095	8:51:44
28	20070406	2059	E	8272	8908	0.37037	9:03:57
28	20070406	2057	W	8909	9520	0.378634	9:15:26
28	20070406	2055	Е	9521	10156	0.387118	9:28:03
28	20070406	2053	W	10157	10767	0.395382	9:39:32
28	20070406	2051	E	10768	11403	0.403461	9:51:35
28	20070406	2049	W	11404	11982	0.412095	10:03:04
28	20070406	2047	E	11983	12606	0.419931	10:15:06
28	20070406	2045	W	12607	13178	0.42831	10:26:18
28	20070406	2043	Е	13179	13803	0.436169	10:38:30
28	20070406	2041	W	13804	14376	0.444988	10:50:20
28	20070406	2039	Е	14377	15002	0.452604	11:02:11
28	20070406	2093	W	1	598	0.464757	11:19:13
28	20070406	7128	E	599	688	0.474306	11:24:30
28	20070406	9004	Е	689	778	0.475822	11:26:41
28	20070406	9006	E	779	868	0.477581	11:29:13
28	20070406	6128.1	S	897	1016	0.49794	11:59:02
29	20070407	6029	S	1	120	0.25	6:02:00
29	20070407	9000	W	121	210	0.260683	6:16:53
29	20070407	9001	W	211	300	0.26456	6:22:28
29	20070407	7029	W	301	390	0.266262	6:24:55
29	20070407	9003	W	391	453	0.267685	6:26:31
29	20070407	2034.2	E	29	1385	0.298611	7:32:37
29	20070407	2031.1	W	1812	2987	0.330613	8:15:41
29	20070407	2028	E	2988	4352	0.345556	8:40:21
29	20070407	2025	W	4353	5474	0.362581	9:00:49
29	20070407	2023	E	5475	6950	0.376863	9:27:17
29	20070407	2022		5475	0950	0.370003	9.21.11

29	20070407	2019	W	6951	8084	0.395185	9:47:58
29	20070407	2016	Е	8085	9524	0.409491	10:13:41
29	20070407	2010	Е	10673	12064	0.441644	10:59:10
29	20070407	7129	Е	12065	12154	0.460648	11:04:50
29	20070407	9004	Е	12155	12244	0.462188	11:07:03
29	20070407	9006	E	12245	12334	0.463889	11:09:30
29	20070407	6129	S	12335	12454	0.478912	11:31:38
30	20070408	6030	S	1	120		6:04:02
				· ·		0.251412	
30	20070408	9000	W	121	210	0.262685	6:19:46
30	20070408	9001	W	211	300	0.265428	6:23:43
30	20070408	7030	W	301	390	0.267269	6:26:22
30	20070408	9003	W	391	445	0.268669	6:27:48
30	20070408	8930	W	446	555	0.274421	6:37:00
30	20070408	2035.1	W	675	1236	0.286921	7:02:32
30	20070408	2036	Е	1237	1926	0.294525	7:15:37
30	20070408	2033	W	1927	2486	0.303854	7:26:53
30	20070408	2032	Е	2487	3183	0.311609	7:40:20
30	20070408	2029	W	3184	3758	0.321146	7:52:02
30	20070408	2030	Е	3759	4450	0.329167	8:05:32
30	20070408	7130	Е	4451	4540	0.340162	8:11:20
30	20070408	9004	Е	4541	4630	0.341782	8:13:40
30	20070408	9006	E	4631	4720	0.343866	8:16:40
30	20070408	6130	S	4721	4840	0.357616	8:36:58
31	20070411	6031	N	1	120	0.237431	5:43:54
31	20070411	9000	W	121	210	0.262373	6:19:19
31	20070411	9001	W	211	300	0.265405	6:23:41
31	20070411	7031	W	301	390	0.266956	6:25:55
31	20070411	9003	W	391	446	0.268461	6:27:31
31	20070411	2037.1	W	447	1645	0.278102	7:00:27
31	20070411	2026	E	1646	2288	0.300532	7:23:29
31	20070411	2013.1	W	2289	3471	0.309201	7:44:58
31	20070411	2013.1	E	3472	4136	0.330891	8:07:34
31	20070411	2012	W	4137	4680	0.330691	8:19:37
31	20070411	2027	E VV	4681	5322	0.348438	8:32:27
31	20070411	2024	W	5323	5882	0.346436	8:42:57
31	20070411	2023		5883	6512	0.364201	8:54:57
	20070411	2020	E W		7078	0.364201	9:05:51
31				6513			
31	20070411	2018	E	7079	7697	0.38037	9:18:03
31	20070411	2007	W	7698	8932	0.388796	9:40:27
31	20070411	2004.1	E	8933	10276	0.405648	10:06:32
31	20070411	2003	W	10277	10861	0.422002	10:17:26
31	20070411	7131	E	10862	10951	0.431979	10:23:33
31	20070411	9004	E	10952	11041	0.433553	10:25:49
31	20070411	9006	E	11042	11131	0.435336	10:28:23
31	20070411	6131	N	11132	11251	0.476933	11:28:47
32	20070412	6032	N	1	120	0.239063	5:46:15
32	20070412	9000	W	121	210	0.264306	6:22:06
32	20070412	9001	W	211	300	0.266424	6:25:09
32	20070412	7032	W	301	390	0.267975	6:27:23
32	20070412	9003	W	391	451	0.26941	6:28:58
32	20070412	2001.1	W	452	1568	0.283553	7:06:56
32	20070412	2002	E	1569	2257	0.305428	7:31:18
32	20070412	2017	W	2258	2817	0.315359	7:43:27
32	20070412	2014	Е	2818	3523	0.32294	7:56:48
32	20070412	2015	W	3524	4078	0.331875	8:07:09
32	20070412	2008	E	4079	4782	0.339514	8:20:39
32	20070412	2011	W	4784	5333	0.348438	8:30:55
32	20070412	2006	E	5334	6030	0.355544	8:43:36
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32 20070412 2005 W 6675 7135 0.380313 917.00 32 20070412 2073.1 W 7136 8200 0.396424 9.48:36 32 20070412 8732 W 8201 8310 0.431111 10:22:38 32 20070412 2391 W 8201 8310 0.431111 10:23:38 32 20070412 7132 E 8877 8966 0.446389 10:44:18 32 20070412 9004 E 8967 9056 0.448889 10:47:54 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070412 9006 E 9057 9146 0.46509 10:50:21 32 20070413 900.1 W 347 9266 0.472431 11:22:18 33 20070413 900.1 W 437 526 0.306169 7:22:23 33							_	
32 20070412 2073.1 W 7136 8200 0.396424 94.836 32 20070412 8732 W 8201 8310 0.431111 10:22:38 32 20070412 2391 W 8311 8876 0.436771 10:38:23 32 20070412 7004 E 8967 9956 0.446389 10:44:18 32 20070412 9004 E 8967 9956 0.448889 10:44:18 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070413 6033 N 1 120 0.280382 6:45:45 33 20070413 900.1 W 347 436 0.304236 7:19:36 33 20070413 900.1 W 437 436 0.304236 7:19:36 33 20070413 900.1 W 437 436 0.304236 7:19:36 33	32	20070412	2009	W	6031	6574	0.364641	8:54:09
32 20070412 2073.1 W 7136 8200 0.396424 948:36 32 20070412 2973.1 W 7136 8200 0.396424 948:36 32 20070412 2391 W 8201 8310 0.431111 10:32:33 32 20070412 7132 E 8877 8966 0.446389 10:44:18 32 20070412 9004 E 8967 9056 0.448889 10:44:18 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070413 6033 N 1 120 0.280382 645:45 33 20070413 9000.1 W 347 436 0.304236 7:19:36 33 20070413 9001.1 W 437 436 0.304236 7:19:36 33 20070413 9001.1 W 437 436 0.304236 7:19:36 33	32	20070412	2005	W	6575	7135	0.380313	9:17:00
32 20070412 2073.1 W 7136 8200 0.396424 9.48:36 32 20070412 2391 W 8311 8876 0.436171 10:38:23 32 20070412 7132 E 8877 8966 0.446389 10:47:54 32 20070412 9006 E 8967 9056 0.446889 10:47:54 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070412 9006 N 9147 9266 0.472431 11:22:18 33 20070413 6033 N 1 120 0.280382 6:45:45 33 20070413 9000.1 W 347 436 0.304236 7:19:36 33 20070413 9001.1 W 347 526 0.306169 7:22:23 33 20070413 9003.1 W 527 616 0.307697 7:24:35 33 20070413 9003.1 W 617 670 0.309167 7:26:05 33 20070413 2426 E 671 1380 0.316042 7:46:56 33 20070413 2426 E 1945 2622 0.333507 8:11:33 32 20070413 2428 E 1945 2622 0.333507 8:11:33 33 20070413 2429 W 2623 3206 0.342222 323 33 20070413 2430 E 3207 3871 0.35066 8:36:02 33 20070413 2431 W 508 5442 80 0.35662 9:10:21 33 20070413 2434 E 5650 6308 0.383356 9:23:01 33 20070413 2434 E 5650 6308 0.383356 9:23:01 33 20070413 2438 E 8105 8746 0.416123 10:09:55 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2436 E 8879 7528 0.399888 9:46:23 33 20070413 2437 W 7629 8104 0.408252 9:10:21 33 20070413 2438 E 8105 8746 0.416123 10:09:55 33 20070413 2440 E 9331 9966 0.438661 11:17:07 33 20070413 2441 W 9967 10:660 0.4411157 10:45:10 34 20070414 2444 E 10:21 1300 0.258831 6:14:43 34 20070414 9000 W 121 210 0.258831 6:14:43 34 20070414 9001 W 211 300 0.276289 6:37:55 34 20070414 9000 W 121 210 0.25883 6:37:55 34 20070414 9001 W 211 300 0.276289 6:37:55 34 20070414 2444 E 10:22 1714 0.295914 7:17:30 34 20070414 2444 E 10:22 1714 0.295914 7:17:30 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2448 E 3599								
32 20070412 2391 W 8201 8310 0.4311111 10.22:38 32 20070412 7132 E 8877 8966 0.446389 10.44:18 32 20070412 9004 E 8967 9056 0.446388 10.44:18 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070412 6132 N 9147 9266 0.472431 11:22:18 33 20070413 6033 N 1 1 120 0.280382 6:45:45 33 20070413 9000.1 W 347 436 0.304236 7:19:36 33 20070413 9001.1 W 437 526 0.306189 7:22:23 33 20070413 9001.1 W 527 616 0.307697 7:24:35 33 20070413 9001.1 W 527 616 0.307697 7:24:35 33 20070413 9003.1 W 527 616 0.307697 7:26:06 33 20070413 9003.1 W 527 616 0.307697 7:26:06 33 20070413 2426 E 671 1380 0.316042 7:46:56 33 20070413 2428 E 1945 2622 0.333507 8:11:33 33 20070413 2428 E 1945 2622 0.333507 8:11:33 33 20070413 2429 W 2623 3206 0.342222 8:22:32 33 20070413 2430 E 3207 3871 0.55066 8:36:02 33 20070413 2431 W 3872 4428 0.359306 8:36:02 33 20070413 2432 E 4429 5082 0.368863 8:59:11 33 20070413 2432 E 4429 5082 0.368868 8:59:11 33 20070413 2434 E 5650 6308 0.38356 9:23:01 33 20070413 2434 E 5650 6308 0.38356 9:23:01 33 20070413 2436 E 6879 7528 0.39968 9:46:23 33 20070413 2438 E 1667 1 1767 0.399167 10:21 33 20070413 2439 W 8747 9330 0.424942 10:21:39 33 20070413 2434 E 5650 6308 0.38356 9:23:01 33 20070413 2436 E 6879 7528 0.39968 9:46:23 33 20070413 2438 E 16687 9 7528 0.399688 9:46:23 33 20070413 2439 W 8747 9330 0.424942 10:21:39 33 20070413 2438 E 16674 11763 0.466718 11:12:08 33 20070413 2438 E 16674 11763 0.466718 11:12:08 33 20070413 2439 W 8747 9330 0.424942 10:21:39 33 20070413 2441 W 9967 10:660 0.441157 10:45:10 33 20070413 2439 W 8747 9330 0.424942 10:21:39 33 20070413 2444 E 10:561 11190 0.449236 6:36:510 34 20070414 2444 E 10:561 11190 0.49236 6:37:55 34 20070414 9001 W 211 300 0.275276 6:37:55 34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 6034 N 1 1 120 0.25881 6:37:55 34 20070414 6034 N 1 1 120 0.25881 6:37:55 34 20070414 6034 N 1 1 120 0.25881 6:37:55 34 20070414 2444 E 10:32 1714 0.295914 7:42:50 34 20070414 2444 E 10:32 1714 0.295914 7:42:50 34 20070414 2444 E 299 2988 0.313426 7:42:50 34 20070414 2444								
32 20070412 2391 W 8311 8876 0.436771 10:38:23 32 20070412 9004 E 8967 9056 0.446389 10:44:18 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070412 6132 N 9147 9266 0.472431 11:22:18 33 20070413 6033 N 1 120 0.280382 6:45:45 33 20070413 9000.1 W 347 436 0.304236 7:19:36 33 20070413 9001.1 W 437 526 0.306169 7:22:23 33 20070413 9003.1 W 527 616 0.307697 7:24:35 33 20070413 9003.1 W 617 670 0.309167 7:26:05 33 20070413 9003.1 W 617 670 0.309167 7:26:05 33 20070413 2426 E 671 1380 0.316042 7:46:56 33 20070413 2428 E 1945 2622 0.333507 8:11:33 20070413 2429 W 2623 3206 0.342222 8:22:32 33 20070413 2430 E 3207 3871 0.35066 8:36:02 33 20070413 2431 W 3872 4428 0.359306 8:46:41 33 20070413 2432 E 429 9 5082 0.366863 8:59:11 33 20070413 2434 E 5650 6308 0.383356 9:23:01 33 20070413 2434 E 5650 6308 0.383356 9:23:01 33 20070413 2434 E 5650 6308 0.383356 9:23:01 33 20070413 2436 E 8679 7528 0.399688 9:46:23 33 20070413 2436 E 8679 7528 0.399688 9:46:23 33 20070413 2436 E 8679 7528 0.399688 9:46:23 33 20070413 2436 E 8679 7528 0.39968 9:46:23 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:99:55 33 20070413 2438 E 8105 8746 0.416123 10:93:55 33 20070413 2441 W 9967 10:560 0.441157 10:45:10 33 20070413 2442 E 10:561 11190 0.42926 10:57:24 33 20070413 2444 W 8967 10:560 0.441157 10:45:10 34 20070414 9000 W 121 210 0.258831 6:35:10 34 20070414 9000 W 121 210 0.258831 6:35:10 34 20070414 9000 W 121 210 0.258831 6:37:54 44 20070414 9000 W 121 210 0.258831 6:37:54 44 20070414 2								
32 20070412 7132 E 8877 8966 0.446389 10:44:18 32 20070412 9004 E 8967 9056 0.44889 10:47:54 32 20070412 6132 N 9147 9266 0.472431 11:22:18 33 20070413 9000.1 W 347 436 0.304236 7:19:36 33 20070413 9001.1 W 437 526 0.306169 7:22:23 33 20070413 9001.1 W 437 526 0.306169 7:22:23 33 20070413 9003.1 W 617 670 0.309167 7:26:06 33 20070413 2426 E 671 1380 0.316042 7:46:56 33 20070413 2428 E 1945 2622 0.33507 8:11:33 33 20070413 2428 E 1945 2622 0.33507 8:11:33 33	32	20070412	8732	W	8201	8310	0.431111	10:22:38
32 20070412 7132 E 8877 8966 0.448889 10.447:54 32 20070412 9006 E 9057 9156 0.448889 10:47:54 32 20070412 9006 E 9057 9146 0.45059 10:50:21 32 20070413 6033 N 1 120 0.280382 6:45:18 33 20070413 9000.1 W 347 436 0.304236 6:7:19:36 33 20070413 9001.1 W 437 526 0.306169 7:22:23 33 20070413 9003.1 W 617 670 0.309167 7:26:06 33 20070413 2426 E 671 1380 0.316042 7:46:56 33 20070413 2427 W 1381 1944 0.32556 7:58:12 33 20070413 2428 E 1945 2622 0.33507 8:11:33 33	32	20070412	2391	W	8311	8876	0.436771	10:38:23
32								
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33 20070413 6133 N 11944 12063 0.487662 11:44:14 34 20070414 6034 N 1 120 0.258831 6:14:43 34 20070414 9000 W 121 210 0.27338 6:35:10 34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070	33	20070413	9004	E	11764	11853	0.467442	11:14:37
33 20070413 6133 N 11944 12063 0.487662 11:44:14 34 20070414 6034 N 1 120 0.258831 6:14:43 34 20070414 9000 W 121 210 0.27338 6:35:10 34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070	33	20070413	9006	W	11854	11943	0.469178	11:17:07
34 20070414 6034 N 1 120 0.258831 6:14:43 34 20070414 9000 W 121 210 0.27338 6:35:10 34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414								
34 20070414 9000 W 121 210 0.27338 6:35:10 34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 2007								
34 20070414 9001 W 211 300 0.275289 6:37:55 34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 2								
34 20070414 7034 W 301 390 0.276771 6:40:03 34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45	34	20070414	9001	W	211	300	0.275289	6:37:55
34 20070414 9003 W 391 456 0.27809 6:41:33 34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45	34	20070414	7034	W	301	390	0.276771	6:40:03
34 20070414 2443 W 457 1031 0.287639 7:03:47 34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 2444 E 1032 1714 0.295914 7:17:30 34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 2445 W 1715 2298 0.305069 7:29:02 34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 2446 E 2299 2988 0.313426 7:42:50 34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45	34	20070414	2445	W	1715	2298	0.305069	7:29:02
34 20070414 2447 W 2989 3598 0.322616 7:54:44 34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45	34	20070414	2446	E	2299	2988	0.313426	7:42:50
34 20070414 2448 E 3599 4312 0.331505 8:09:16 34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 2449 W 4313 4913 0.341169 8:21:18 34 20070414 7134 E 4914 5003 0.350868 8:26:45								
34 20070414 7134 E 4914 5003 0.350868 8:26:45								
	34	20070414	7134	E	4914	5003	0.350868	8:26:45
34 20070414 9004 E 5004 5093 0.352326 8:28:51	34	20070414	9004	E	5004	5093	0.352326	8:28:51
34 20070414 9006 E 5094 5183 0.354039 8:31:19								
34 20070414 6134 N 5184 5303 0.372801 8:58:50								
36 20070417 6036 N 1 120 0.242998 5:51:55	36	20070417	6036	N	1	120	0.242998	5:51:55
36 20070417 9000 W 121 210 0.256273 6:10:32	36	20070417	9000	W	121	210	0.256273	6:10:32
36 20070417 9001 W 211 300 0.257998 6:13:01								
36 20070417 9003 W 391 460 0.261076 6:17:07								
36 20070417 8736.1 W 1 103 0.277894 6:41:53	36	20070417	8736.1	W	1	103	0.277894	6:41:53

36	20070417	2450	Е	104	829	0.285775	7:03:37
36	20070417	2451	W	830	1411	0.29559	7:15:21
36	20070417	2452	E	1412	2179	0.303715	7:30:09
36	20070417	2453	W	2180	2771	0.313808	7:41:45
36	20070417	2454	Е	2772	3524	0.321817	7:55:58
36	20070417	2455	W	3525	4138	0.331516	8:07:37
36	20070417	2458	Е	4139	4874	0.340463	8:22:33
36	20070417	2459	W	4876	6312	0.349873	8:47:46
36	20070417	2456	E	6313	7860	0.368495	9:16:26
36	20070417	2457	W	7861	8517	0.387789	9:29:22
36	20070417	2460	E	8518	9227	0.398611	9:45:50
36	20070417	2461	W	9228	9897	0.407708	9:58:16
36	20070417	2464	E	9898	10620	0.416794	10:12:14
36	20070417	7136	E	10621	10710	0.427951	10:17:45
36	20070417	9004	E	10711	10800	0.429444	10:19:54
36	20070417	9006	E	10801	10890	0.43103	10:22:11
36	20070417	6136	Ν	10891	11010	0.445995	10:44:14
37	20070418	6037	N	1	120	0.237095	5:43:25
37	20070418	9000	W	121	210	0.249479	6:00:45
37	20070418	9001.1	W	91	183	0.261296	6:17:49
37	20070418	7037	W	184	273	0.262951	6:20:09
37	20070418	9003	W	274	339	0.264421	6:21:52
37	20070418	2465	W	340	1756	0.27191	6:55:10
37	20070418	2462	Е	1757	3529	0.290012	7:27:10
37	20070418	2471	W	3530	4965	0.31235	7:53:43
37	20070418	2468	E	4966	6679	0.330174	8:24:01
37	20070418	2477	W	6680	8191	0.352164	8:52:19
37	20070418	2474	E	8192	9840	0.370718	9:21:19
37	20070418	2481	W	9841	10590	0.391146	9:35:45
37	20070418	2482	Ε	10591	11400	0.401644	9:51:52
37	20070418	2479	W	11401	12156	0.412292	10:06:18
37	20070418	2478	Е	12157	12939	0.422303	10:21:10
37	20070418	7137	E	12940	13029	0.433935	10:26:22
37	20070418	9004	E	13030	13119	0.435347	10:28:24
37	20070418	9006	E	13120	13209	0.436933	10:30:41
37	20070418	6137	N	13210	13329	0.451528	10:52:12
38	20070419	6038	N	1	120	0.243831	5:53:07
38	20070419	9000	W	121	210	0.257095	6:11:43
38	20070419	9001	W	211	300	0.259387	6:15:01
38	20070419	7038	W	301	390	0.261076	6:17:27
38	20070419	9003	W	391	450	0.2625	6:19:00
38	20070419	2463	W	451	1131	0.270185	6:40:25
38	20070419	2466	E	1132	1881	0.279468	6:54:56
38	20070419	2467	W	1882	2575	0.289086	7:07:51
38	20070419	2470	E	2576	3338	0.302292	7:28:01
38	20070419	2473	W	4626	5361	0.333935	8:13:09
38	20070419	2472.1	E	5363	6118	0.343773	8:27:38
38	20070419	2475	W	6119	6864	0.354051	8:42:16
38	20070419	2476	E	6865	7642	0.364387	8:57:41
38	20070419	2483	W	7643	9235	0.374977	9:26:31
38	20070419	2480	E	9236	10861	0.394699	9:55:28
38	20070419	2469.1	W	10862	11585	0.415139	10:09:52
38 38	20070419 20070419	7138 9004	E E	11586 11676	11675 11765	0.426296 0.42772	10:15:22 10:17:25
38 38	20070419	9004	E		11765	0.42772 0.429468	10:17:25
38 38	20070419	9006 6138.2	E N	11766	11855	0.429468	10:19:56
J0	20070419	0130.2	įΝ	1	120	0.400009	10.55.36

APPENDIX IV – Pre- and Post-flight Zero Statistics

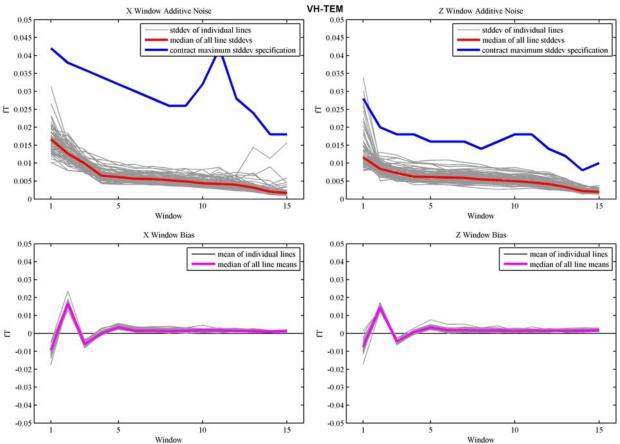


Figure 1 Plots of the mean and standard deviation of all high altitude lines for the survey flown by VH-TEM Plot provided courtesy of Geoscience Australia.

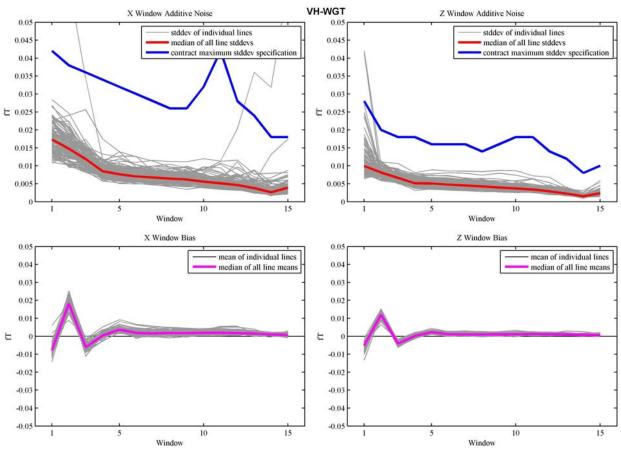


Figure 1 Plots of the mean and standard deviation of all high altitude lines for the survey flown by VH-WGT Plot provided courtesy of Geoscience Australia.

APPENDIX V – Located Data Format

DUBBO S1 NON-GEOMETRY CORRECTED (LMRAEM_S1_NON-HPR.HDR)

```
COMM JOB NUMBER:
                                                                         1835
COMM AREA NUMBER:
                                                                           S1
COMM SURVEY COMPANY:
                                                      Fugro Airborne Surveys
COMM CLIENT:
                                                          25Hz TEMPEST Survey
COMM SURVEY TYPE:
COMM AREA NAME:
                                                   Lower Macquarie River AEM
COMM STATE:
COMM COUNTRY:
                                                                   Australia
                                                         January-April, 2007
COMM SURVEY FLOWN:
COMM LOCATED DATA CREATED:
                                                                   June 2007
COMM
COMM DATUM:
                                                                        GDA94
COMM PROJECTION:
                                                                          MGA
COMM ZONE:
                                                                           55
COMM
COMM SURVEY SPECIFICATIONS
COMM
COMM TRAVERSE LINE SPACING:
                                                                        300 m
COMM TRAVERSE LINE DIRECTION:
                                                                  000-180 deg
COMM NOMINAL TERRAIN CLEARANCE:
                                                                        115 m
COMM FINAL LINE KILOMETRES:
                                                                    8661.0 km
COMM
COMM LINE NUMBERING
COMM
COMM TRAVERSE LINE NUMBERS:
                                                                10010 - 12680
COMM
COMM AREA BOUNDARY (GDA94, MGA55)
COMM 558900 6451800
COMM 624900 6451800
COMM 624900 6444000
COMM 639000 6444000
COMM 639000 6431100
COMM 624900 6431100
COMM 624900 6426300
COMM 619500 6426300
COMM 619500 6435900
COMM 613800 6435900
COMM 613800 6426300
COMM 612600 6426300
COMM 612600 6411900
COMM 558900 6411900
COMM
COMM
COMM SURVEY EQUIPMENT
COMM
COMM AIRCRAFT:
                                                     Skyvan SC-3-200, VH-WGT
COMM
COMM MAGNETOMETER:
                                                Scintrex Cs-2 Caesium Vapour
COMM INSTALLATION:
                                                                stinger mount
                                                                     0.001 nT
COMM RESOLUTION:
COMM RECORDING INTERVAL:
                                                                        0.2 \, s
COMM
                                                                 25Hz TEMPEST
COMM ELECTROMAGNETIC SYSTEM:
COMM INSTALLATION:
                                    Transmitter loop mounted on the aircraft
                                              Receiver coils in a towed bird
COMM COIL ORIENTATION:
                                                                          X, Z
COMM RECORDING INTERVAL:
                                                                        0.2 s
```

```
COMM SYSTEM GEOMETRY:
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER (AVERAGE):
                                                                  114.0 m
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER (AVERAGE):
                                                                   47 3 m
COMM
COMM RADAR ALTIMETER:
                                                             Collins ALT55
COMM RECORDING INTERVAL:
                                                                    0.2 \, s
COMM
COMM LASER ALTIMETER:
                                                         Regal LD90-3300HR
COMM RECORDING INTERVAL:
COMM
                                                real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
COMM
COMM ACQUISITION SYSTEM:
                                                                 PDAS-1000
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
COMM DIURNAL BASE VALUE APPLIED
                                                                  56715 nT
COMM PARALLAX CORRECTION APPLIED
                                                                    0.4 s
COMM IGRF BASE VALUE APPLIED
                                                                  56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                    2006.9
COMM
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                    0.2 s
COMM Z-COMPONENT EM DATA
                                                                    1.4 s
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                    0.6 s
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                    0.0 s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
COMM Because of the inherent inaccuracies of this method, no guarantee is
COMM made or implied that the information displayed is a true
COMM representation of the height above sea level. Although this product
COMM may be of some use as a general reference,
COMM THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.
COMM
COMM ELECTROMAGNETIC SYSTEM
COMM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
COMM WINDOW
               START
                                   CENTRE
                           END
               0.007 0.020
0.033 0.047
0.060 0.073
0.087 0.127
COMM 1
                                    0.013
       2
COMM
                                     0.040
COMM 3
                                     0.067
COMM 4
                                     0.107
```

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```
Lower Macquarie River Tempest Survey - Commonwealth of Australia
                                                                Job No. 1835 Page 103
COMM
         5
                   0.140
                               0.207
                                             0.173
                              0.340
COMM
         6
                   0.220
                                            0.280
                              0.553
         7
                  0.353
                                            0.453
COMM
                            0.873
0.873
1.353
2.100
3.272
                  0.567
         8
                                            0.720
COMM
                                            1.120
                  0.887
COMM
        9
                  1.367
                                            1.733
COMM
       10
                               3.273
                                            2.693
COMM
                  2.113
       11
                               5.113
                                            4.200
COMM
                  3.287
       12
                  5.127
                               7.993
COMM
       13
                                            6.560
                  COMM
       14
COMM 15
                 12.407
                             19.993
                                          16.200
COMM
COMM PULSE WIDTH: 10 ms
COMM
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields : 68
COMM Field
             Columns Type Format Channel
                                                              Description
COMM
                                                [Project Number
            1 - 4 int (i 4) PROJECT
5 - 6 int (i 2) AIRCRAFT
7 - 10 int (i 4) FLIGHT
COMM 1
            1 -
                                                                                         ]
                                                 [Aircraft (1-TEM, 2-WGT)
[Flight
COMM
      2
                                   AIRCRAFT
                                 FLIGHT
COMM 3
                                                                                         1
           11 - 16 int (i 6) LINE
                                                 [Line
COMM 4
         11 - 16 int (i 6) LINE [Line
17 - 24 real (f 8.1) FID [Fiducial
25 - 33 int (i 9) DATE [Date
34 - 41 real (f 8.1) TIME [Time
42 - 45 int (i 4) BEARING [Bearing
46 - 58 real (f13.6) LONGITUDE [Longitude GDA94
59 - 71 real (f13.6) LATITUDE [Latitude GDA94
72 - 82 real (f11.2) EASTING [Easting MGA55
83 - 94 real (f12.2) NORTHING [Northing MGA55
95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter
102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter
109 - 116 real (f 8.2) TxHeight [Transmitter GPS height
                                                                                         1
COMM 5
                                                                                    (s)]
                                                                               ddmmyyyy]
COMM 6
COMM
      7
                                                                                (s)]
COMM 8
                                                                                   (deg)]
COMM 9
                                                                                   (deg)]
COMM 10
        59 - 71 real (f13.6) LATITUDE
COMM 11
                                                                                    (m) l
COMM 12
                                                                                     (m)1
COMM 13
                                                                                     (m)]
COMM 14
                                                                                     (m)1
          109 - 116 real (f 8.2) TxHeight [Transmitter GPS height
COMM 15
                                                                                    (m)]
COMM 16
          117 - 124 real (f 8.2) DTM
                                                 [DTM
                                                                                     (m)]
          COMM 17
COMM 18
COMM 19
COMM 20
COMM 21
COMM 22
COMM 23
COMM 24
          197 - 208 real (f12.6) EMX_Raw[1]
                                                 [Raw EMX01 Window
COMM 25
                                                                                   (fT)]
          209 - 220 real (f12.6) EMX_Raw[2]
                                                 [Raw EMX02 Window
COMM 26
                                                                                   (fT)]
          COMM 27
                                                                                    (fT)]
COMM 28
                                                                                    (fT)]
COMM 29
                                                                                    (fT)]
COMM 30
                                                                                    (fT)]
COMM 31
          269 - 280 real (f12.6) EMX_Raw[7]
                                                 [Raw EMX07 Window
                                                                                   (fT)]
```

341 - 352 real (f12.6) EMX_Raw[13] [Raw EMX13 Window

353 - 364 real (f12.6) EMX_Raw[14] [Raw EMX14 Window

365 - 376 real (f12.6) EMX_Raw[15] [Raw EMX15 Window

COMM 32 COMM 33

COMM 34 COMM 35

COMM 36

COMM 37

COMM 38

COMM 39

COMM	40	377	_	388	real (f12.6)	EMZ_Raw[1]	[Raw EMZ01	Window	(fT)]
COMM	41	389	-	400	real (f12.6)	EMZ_Raw[2]	[Raw EMZ02	Window	(fT)]
COMM	42	401	-	412	real (f12.6)	EMZ_Raw[3]	[Raw EMZ03	Window	(fT)]
COMM	43	413	-	424	real (f12.6)	EMZ_Raw[4]	[Raw EMZ04	Window	(fT)]
COMM	44	425	-	436	real (f12.6)	EMZ_Raw[5]	[Raw EMZ05	Window	(fT)]
COMM	45	437	-	448	real (f12.6)	EMZ_Raw[6]	[Raw EMZ06	Window	(fT)]
COMM	46	449	-	460	real (f12.6)	EMZ_Raw[7]	[Raw EMZ07	Window	(fT)]
COMM	47	461	-	472	real (f12.6)	EMZ_Raw[8]	[Raw EMZ08	Window	(fT)]
COMM	48	473	-	484	real (f12.6)	EMZ_Raw[9]	[Raw EMZ09	Window	(fT)]
COMM	49	485	_	496	real (f12.6)	EMZ_Raw[10]	[Raw EMZ10	Window	(fT)]
COMM	50	497	-	508	real (f12.6)	EMZ_Raw[11]	[Raw EMZ11	Window	(fT)]
COMM	51	509	-	520	real (f12.6)	EMZ_Raw[12]	[Raw EMZ12	Window	(fT)]
COMM	52	521	_	532	real (f12.6)	EMZ_Raw[13]	[Raw EMZ13	Window	(fT)]
COMM	53	533	-	544	real (f12.6)	EMZ_Raw[14]	[Raw EMZ14	Window	(fT)]
COMM	54	545	-	556	real (f12.6)	EMZ_Raw[15]	[Raw EMZ15	Window	(fT)]
COMM	55	557	-	566	real (f10.3)	X_Sferics	[X_Sferics]
COMM	56	567	-	576	real (f10.3)	Z_Sferics	[Z_Sferics]
COMM	57	577	-	586	real (f10.3)	X_VLF1	[X_18.2kHz]
COMM	58	587	-	596	real (f10.3)	X_VLF2	[X_19.8kHz]
COMM	59	597	-	606	real (f10.3)	X_VLF3	[X_21.4kHz]
COMM	60	607	-	616	real (f10.3)	X_VLF4	[X_22.2kHz]
COMM	61	617	-	626	real (f10.3)	Z_VLF1	[Z_18.2kHz]
COMM	62	627	-	636	real (f10.3)	Z_VLF2	[Z_19.8kHz]
COMM	63	637	-	646	real (f10.3)	Z_VLF3	[Z_21.4kHz]
COMM	64	647	-	656	real (f10.3)	Z_VLF4	[Z_22.2kHz]
COMM	65	657	-	666	real (f10.3)	X_Powerline	[X_Powerlin	ne]
COMM	66	667	-	676	real (f10.3)	<pre>Z_Powerline</pre>	[Z_Powerli	ne]
COMM	67	677	-	686	real (f10.3)	X_Lowfreq	[X_Lowfreq]
COMM	68			696	real (f10.3)	<pre>Z_Lowfreq</pre>	[Z_Lowfreq]
COMM		697	-	698	<newline></newline>				

COMM Total number of lines : 268 COMM Total Kilometres : 8659.97

DUBBO S1 GEOMETRY CORRECTED (LMRAEM_S1_HPR.HDR)

```
COMM JOB NUMBER:
                                                                        1835
COMM AREA NUMBER:
COMM SURVEY COMPANY:
                                                      Fugro Airborne Surveys
COMM CLIENT:
                                                         25Hz TEMPEST Survey
COMM SURVEY TYPE:
COMM AREA NAME:
                                                  Lower Macquarie River AEM
COMM STATE:
                                                                         NSW
COMM COUNTRY:
                                                                   Australia
COMM SURVEY FLOWN:
                                                         January-April, 2007
COMM LOCATED DATA CREATED:
                                                                   June 2007
COMM
COMM DATUM:
                                                                       GDA94
COMM PROJECTION:
                                                                         MGA
COMM ZONE:
                                                                          55
COMM
COMM SURVEY SPECIFICATIONS
COMM
COMM TRAVERSE LINE SPACING:
                                                                       300 m
                                                                 000-180 deg
COMM TRAVERSE LINE DIRECTION:
COMM NOMINAL TERRAIN CLEARANCE:
                                                                       115 m
COMM FINAL LINE KILOMETRES:
                                                                   8661.0 km
COMM
COMM LINE NUMBERING
COMM
COMM TRAVERSE LINE NUMBERS:
                                                               10010 - 12680
COMM
COMM AREA BOUNDARY (GDA94, MGA55)
COMM
COMM 558900 6451800
COMM 624900 6451800
COMM 624900 6444000
COMM 639000 6444000
COMM 639000 6431100
COMM 624900 6431100
COMM 624900 6426300
COMM 619500 6426300
COMM 619500 6435900
COMM 613800 6435900
COMM 613800 6426300
COMM 612600 6426300
COMM 612600 6411900
COMM 558900 6411900
COMM
COMM
COMM SURVEY EQUIPMENT
COMM
                                                     Skyvan SC-3-200, VH-WGT
COMM AIRCRAFT:
COMM
COMM MAGNETOMETER:
                                               Scintrex Cs-2 Caesium Vapour
COMM INSTALLATION:
                                                               stinger mount
COMM RESOLUTION:
                                                                    0.001 nT
COMM RECORDING INTERVAL:
                                                                       0.2 s
COMM
COMM ELECTROMAGNETIC SYSTEM:
                                                                25Hz TEMPEST
COMM INSTALLATION:
                                   Transmitter loop mounted on the aircraft
COMM
                                             Receiver coils in a towed bird
COMM COIL ORIENTATION:
                                                                         X.7
COMM RECORDING INTERVAL:
                                                                       0.2 s
COMM SYSTEM GEOMETRY:
                                                                       115 m
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER:
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER:
                                                                        45 m
COMM
```

```
COMM RADAR ALTIMETER:
                                                            Collins ALT55
COMM RECORDING INTERVAL:
                                                                   0.2 \, \mathrm{s}
COMM
                                                        Regal LD90-3300HR
COMM LASER ALTIMETER:
COMM RECORDING INTERVAL:
COMM
                                               real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
COMM
                                                                PDAS-1000
COMM ACQUISITION SYSTEM:
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
COMM DIURNAL BASE VALUE APPLIED
                                                                 56715 nT
COMM PARALLAX CORRECTION APPLIED
                                                                   0.4 s
COMM IGRF BASE VALUE APPLIED
                                                                 56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                   2006.9
COMM
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                    0.2 s
COMM Z-COMPONENT EM DATA
                                                                    1.4 s
COMM DATA CORRECTED FOR TRANSMITTER HEIGHT, PITCH AND ROLL
COMM DATA CORRECTED FOR TRANSMITTER-RECEIVER GEOMETRY VARIATIONS
COMM DATA HAVE BEEN MICROLEVELLED
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                   0.6 \, \mathrm{s}
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                   0.0 s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
COMM Because of the inherent inaccuracies of this method, no guarantee is
COMM made or implied that the information displayed is a true
COMM representation of the height above sea level. Although this product
COMM may be of some use as a general reference,
COMM THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.
COMM -----
COMM
COMM ELECTROMAGNETIC SYSTEM
COMM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
              START END

0.007 0.020

0.033 0.047

0.060 0.073

0.087 0.127

0.140 0.207
COMM WINDOW
                                   CENTRE
COMM 1
                                   0.013
      2
                                    0.040
COMM
COMM 3
                                    0.067
COMM 4
                                    0.107
COMM 5
                                    0.173
```

(fT)] (fT)]

```
_____Job No. 1835 Page 107
COMM
                        0.220
                                        0.340
                                                        0.280
                                      0.553
COMM
           7
                        0.353
                                                        0.453
                                      0.873
            8
                        0.567
                                                        0.720
COMM
                                      1.353
                                                       1.120
           9
                       0.887
COMM
                                      2.100
                       1.367
                                                       1.733
COMM
          10
                                                       2.693
                       2.113
                                       3.273
COMM
          11
                                     5.113
COMM
                       3.287
                                                       4.200
          12
COMM
                       5.127
          13
                                       7.993
                                                       6.560
                                   12.393
COMM
          14
                       8.007
                                                       10.200
COMM 15
                      12.407
                                     19.993
                                                       16.200
COMM
COMM PULSE WIDTH: 10 ms
COMM
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields
                                : 68
COMM Field
                 Columns Type Format Channel
                                                                  Description
COMM
                    4 int (i 4) PROJECT
6 int (i 2) AIRCRAFT
                                                          [Project Number
[Aircraft (1-TEM
[Flight
COMM 1
             1 -
                                                                                                               1
COMM 2
              5 -
                                (i \ 2)
                                          AIRCRAFT
                                                             [Aircraft (1-TEM, 2-WGT)
             7 - 10 int (i 4)
                                         FLIGHT
COMM 3
                                                                                                               1
             11 - 16 int (i 6) LINE
COMM 4
                                                           [Line
                                                                                                               1
           17 - 24 real (f 8.1) FID [Fiducial]
25 - 33 int (i 9) DATE [Date]
34 - 41 real (f 8.1) TIME [Time]
42 - 45 int (i 4) BEARING [Bearing]
46 - 58 real (f13.6) LONGITUDE [Longitude GDA94]
59 - 71 real (f13.6) LATITUDE [Latitude GDA94]
72 - 82 real (f11.2) EASTING [Easting MCAFF]
COMM 5
                                                                                                         (s) ]
                                                                                                   ddmmyyyy ]
COMM 6
COMM 7
                                                                                                    (s) ]
COMM 8
                                                                                                        (deg) ]
                                                                                                       (deg) ]
COMM 9
                                                                                                      (deg) ]
COMM10
COMM11 72 - 82 real (f11.2) EASTING [Easting MGA55 COMM12 83 - 94 real (f12.2) NORTHING [Northing MGA55 COMM13 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter COMM14 102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter
                                                                                                        (m)]
                                                                                                         (m) ]
                                                                                                         (m)
                                                                                                         (m)]
COMM15 109 - 116 real (f 8.2) TxHeight [Transmitter GPS height
                                                                                                         (m) ]
COMM16 117 - 124 real (f 8.2) DTM [DTM]
COMM17 125 - 134 real (f10.3) MAG [Compensated TMI]
COMM18 135 - 144 real (f10.5) Roll_Final [Final Tx loop roll]
COMM19 145 - 154 real (f10.5) Pitch_Final [Final Tx loop pitch]
                                                                                                         (m) ]
                                                                                                       (nT) ]
                                                                                                       (deg) ]
COMM19 145 - 154 real (f10.5) Pitch_Final [Final Tx loop pitch (deg)]
COMM20 155 - 160 real (f 6.1) TxAlt [Tx ground clearance (m)]
COMM21 161 - 168 real (f 8.2) HSep_Final [Final Tx-Rx horizontal separation(m)]
COMM22 169 - 176 real (f 8.2) VSep_Final [Final Tx-Rx vertical separation (m)]
         177 - 186 real (f10.3) X_Geofact [X_Geometric factor 187 - 196 real (f10.3) Z_Geofact [Z_Geometric factor 197 - 208 real (f12.6) EMX_Final[1] [Final EMX01 Window
COMM23
                                                                                                               1
COMM24
COMM25
                                                                                                       (fT) l
COMM26 209 - 220 real (f12.6) EMX Final[2] [Final EMX02 Window
         221 - 232 real (f12.6) EMX_Final[3] [Final EMX03 Window
COMM27
                                                                                                        (fT) ]
         233 - 244 real (f12.6) EMX_Final[4] [Final EMX04 Window 245 - 256 real (f12.6) EMX_Final[5] [Final EMX05 Window 257 - 268 real (f12.6) EMX_Final[6] [Final EMX06 Window
COMM28
                                                                                                        (fT) ]
COMM29
COMM30
                                                                                                        (fT) ]
           269 - 280 real (f12.6) EMX_Final[7] [Final EMX07 Window
                                                                                                       (fT) ]
COMM31
COMM32 281 - 292 real (f12.6) EMX_Final[8] [Final EMX08 Window
                                                                                                       (fT) ]
COMM33 293 - 304 real (f12.6) EMX_Final[9] [Final EMX09 Window
                                                                                                       (fT) ]
          305 - 316 real (f12.6) EMX_Final[10] [Final EMX10 Window 317 - 328 real (f12.6) EMX_Final[11] [Final EMX11 Window 329 - 340 real (f12.6) EMX_Final[12] [Final EMX12 Window
                                                                                                       (fT) ]
COMM34
COMM35
                                                                                                        (fT)
                                                                                                       (fT) ]
COMM 36
          341 - 352 real (f12.6) EMX_Final[13] [Final EMX13 Window
COMM37
                                                                                                       (fT) ]
COMM38 353 - 364 real (f12.6) EMX_Final[14] [Final EMX14 Window
                                                                                                       (fT) ]
```

365 - 376 real (f12.6) EMX_Final[15] [Final EMX15 Window 377 - 388 real (f12.6) EMZ_Final[1] [Final EMZ01 Window

COMM39

COMM40

COMM41	389 -	400	real (f	E12.6)	EMZ_Final[2]	[Final	EMZ02	Window	(fT)]
COMM42	401 -	412	real (f	E12.6)	<pre>EMZ_Final[3]</pre>	[Final	EMZ03	Window	(fT)]
COMM43	413 -	424	real (f	E12.6)	EMZ_Final[4]	[Final	EMZ04	Window	(fT)]
COMM44	425 -	436	real (f	E12.6)	EMZ_Final[5]	[Final	EMZ05	Window	(fT)]
COMM45	437 -	448	real (f	E12.6)	EMZ_Final[6]	[Final	EMZ06	Window	(fT)]
COMM46	449 -	460	real (f	E12.6)	EMZ_Final[7]	[Final	EMZ07	Window	(fT)]
COMM47	461 -	472	real (f	E12.6)	EMZ_Final[8]	[Final	EMZ08	Window	(fT)]
COMM48	473 -	484	real (f	E12.6)	EMZ_Final[9]	[Final	EMZ09	Window	(fT)]
COMM49	485 -	496	real (f	E12.6)	EMZ_Final[10]	[Final	EMZ10	Window	(fT)]
COMM50	497 -	508	real (f	E12.6)	EMZ_Final[11]	[Final	EMZ11	Window	(fT)]
COMM51	509 -	520	real (f	E12.6)	EMZ_Final[12]	[Final	EMZ12	Window	(fT)]
COMM52	521 -	532	real (f	E12.6)	EMZ_Final[13]	[Final	EMZ13	Window	(fT)]
COMM53	533 -	544	real (f	E12.6)	EMZ_Final[14]	[Final	EMZ14	Window	(fT)]
COMM54	545 -	556	real (f	E12.6)	EMZ_Final[15]	[Final	EMZ15	Window	(fT)]
COMM55	557 -	566	real (f	E10.3)	X_Sferics	[X_Sfer	rics]
COMM56	567 -	576	real (f	E10.3)	Z_Sferics	[Z_Sfer	rics]
COMM57	577 -	586	real (f	E10.3)	X_VLF1	$[X_18.2]$	kHz]
COMM58	587 -	596	real (f	E10.3)	X_VLF2	$[X_19.8]$	kHz]
COMM59	597 -	606	real (f	E10.3)	X_VLF3	$[X_21.4]$	kHz]
COMM60	607 -	616	real (f	E10.3)	X_VLF4	$[X_22.2]$	kHz]
COMM61	617 -	626	real (f	E10.3)	Z_VLF1	$[Z_18.2]$	kHz]
COMM62	627 -	636	real (f	E10.3)	Z_VLF2	$[Z_19.8]$	kHz]
COMM63	637 -	646	real (f	E10.3)	Z_VLF3	[Z_21.4	kHz]
COMM64	647 -	656	real (f	E10.3)	Z_VLF4	$[Z_{22.2}]$	kHz]
COMM65	657 -	666	real (f	E10.3)	X_Powerline	[X_Powe	erline]
COMM66	667 -	676	real (f	E10.3)	Z_Powerline	[Z_Powe	erline]
COMM67	677 -	686	real (f	E10.3)	X_Lowfreq	[X_Lowf	req]
COMM68	687 -	696	real (f	E10.3)	Z_Lowfreq	[Z_Lowf	req]
COMM	697 -	698	<newline< td=""><td>=></td><td></td><td></td><td></td><td></td><td></td><td></td></newline<>	= >						

COMM Total Kilometres : 8659.97

DUBBO S1 Conductivity data (LMRAEM_S1_COND.HDR)

```
COMM JOB NUMBER:
                                                                        1835
COMM AREA NUMBER:
COMM SURVEY COMPANY:
                                                      Fugro Airborne Surveys
COMM CLIENT:
                                                         25Hz TEMPEST Survey
COMM SURVEY TYPE:
COMM AREA NAME:
                                                  Lower Macquarie River AEM
COMM STATE:
                                                                         NSW
COMM COUNTRY:
                                                                   Australia
COMM SURVEY FLOWN:
                                                         January-April, 2007
COMM LOCATED DATA CREATED:
                                                                   June 2007
COMM
COMM DATUM:
                                                                       GDA94
COMM PROJECTION:
                                                                         MGA
COMM ZONE:
                                                                          55
COMM
COMM SURVEY SPECIFICATIONS
COMM
COMM TRAVERSE LINE SPACING:
                                                                       300 m
                                                                 000-180 deg
COMM TRAVERSE LINE DIRECTION:
COMM NOMINAL TERRAIN CLEARANCE:
                                                                       115 m
COMM FINAL LINE KILOMETRES:
                                                                   8661.0 km
COMM
COMM LINE NUMBERING
COMM
COMM TRAVERSE LINE NUMBERS:
                                                               10010 - 12680
COMM
COMM AREA BOUNDARY (GDA94, MGA55)
COMM
COMM 558900 6451800
COMM 624900 6451800
COMM 624900 6444000
COMM 639000 6444000
COMM 639000 6431100
COMM 624900 6431100
COMM 624900 6426300
COMM 619500 6426300
COMM 619500 6435900
COMM 613800 6435900
COMM 613800 6426300
COMM 612600 6426300
COMM 612600 6411900
COMM 558900 6411900
COMM
COMM
COMM SURVEY EQUIPMENT
COMM
                                                     Skyvan SC-3-200, VH-WGT
COMM AIRCRAFT:
COMM
COMM MAGNETOMETER:
                                               Scintrex Cs-2 Caesium Vapour
COMM INSTALLATION:
                                                               stinger mount
COMM RESOLUTION:
                                                                    0.001 nT
COMM RECORDING INTERVAL:
                                                                       0.2 s
COMM
COMM ELECTROMAGNETIC SYSTEM:
                                                                25Hz TEMPEST
COMM INSTALLATION:
                                   Transmitter loop mounted on the aircraft
COMM
                                             Receiver coils in a towed bird
COMM COIL ORIENTATION:
                                                                         X.7
COMM RECORDING INTERVAL:
                                                                       0.2 s
COMM SYSTEM GEOMETRY:
                                                                       115 m
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER:
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER:
                                                                        45 m
COMM
```

'	•	•				-
	RADAR ALTIM					Collins ALT55
	RECORDING I	INTERVAL:				0.2 s
COMM	TAGED ATEST	, T. T. T.			D	1 1 000 2200110
	LASER ALTIM				Rega	1 LD90-3300HR 0.2 s
COMM	RECORDING 1	.NIERVAL•				0.2 S
	NAVIGATION:			r	eal-time dif	ferential GPS
	RECORDING I			-	car criiic arr	1.0 s
COMM						
COMM	ACQUISITION	SYSTEM:				PDAS-1000
COMM						
	DATA PROCES	SSING				
COMM	MA CATEGIA DA					
	MAGNETIC DA		יחו דבה			56715 nT
	PARALLAX CC					0.4 s
	IGRF BASE V					56786 nT
	IGRF MODEL					2006.9
COMM						
COMM	ELECTROMAGN	ETIC DATA				
	SYSTEM PARA		ED, AS FOI	LLOWS		
	X-COMPONENT					0.2 s
	Z-COMPONENT		N NICM T TTTED	HEIGHT, PITCH	AND DOLL	1.4 s
				RECEIVER GEOME		NS
	DATA HAVE E	=		RECEIVER GEORIE	11(1 V111(111111)	,1VD
	CONDUCTIVIT			ALCULATED		EMFlow V5.10
COMM	CONDUCTIVIT	CIES CALCUI	ATED USING	G corrected EM	DATA	
COMM						
	DIGITAL TER					
				RADAR ALIMETER		0.6 s
				GPS ALIMETER D TUDE - RADAR AL		0.0 s
	DATA HAVE E			IODE - KADAR AL	IIIODE]	
				calculation is	directly dep	endent on
				parameters, rad		
				alue may be er		-
				reflects the		
				The GPS altit		
	_			ilable satellit Ll yield X and	_	
				acy of the alti		
				metre range.		
				nterpolation an		
				racies of this		
				mation displaye		
				pove sea level.	Although t	his product
				l reference,		
				FOR NAVIGATION		
COMM						
	ELECTROMAGN	ETIC SYSTE	IM.			
COMM						
	TEMPEST IS	A TIME-DOM	MAIN SQUARI	E-WAVE SYSTEM,		
	TRANSMITTIN					
				R COILS IN A TO		
				TIMES PER SECON		
	THE TIMES (IN MILLISE	CONDS) FOR	R THE 15 WINDOW	S ARE:	
COMM	WINDOW	START	END	CENTRE		
COMM	WINDOW 1	0.007	0.020	0.013		
COMM		0.033	0.047	0.040		
COMM	3	0.060	0.073	0.067		

60-65 m

65-70 m

70-75 m

75-80 m

80-85 m

85-90 m

90-95 m

100-105 m

95-100 m

(mS/m)]

(mS/m) 1

(mS/m) 1

(mS/m)]

(mS/m)]

(mS/m)]

(mS/m)]

(mS/m)

(mS/m)

[Conductivity_013

[Conductivity_014

[Conductivity_015

[Conductivity_016

[Conductivity_017

[Conductivity_018

[Conductivity_019

[Conductivity_020

[Conductivity_021

```
<u>Lower Macquarie River Tempest Survey - Commonwealth of Australia</u>
                                                                         Job No. 1835 Page 111
COMM
         4
                   0.087
                                0.127
                                            0.107
COMM
         5
                   0.140
                                0.207
                                            0.173
                   0.220
                                0.340
                                            0.280
COMM
         6
         7
                   0.353
                                0.553
                                            0.453
COMM
         8
                   0.567
                                0.873
                                            0.720
COMM
COMM
         9
                   0.887
                                1.353
                                            1.120
        10
                   1.367
COMM
                                2.100
                                            1.733
COMM
        11
                   2.113
                               3.273
                                            2.693
COMM
        12
                   3.287
                               5.113
                                            4.200
        13
                   5.127
                               7.993
                                            6.560
COMM
                               12.393
COMM
        14
                  8.007
                                           10.200
        15
                               19.993
COMM
                  12.407
                                           16.200
COMM
COMM PULSE WIDTH: 10 ms
COMM
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields
                           : 127
COMM
               Columns Type Format Channel
COMM Field
                                                          Description
COMM
COMM
           1 -
                 4
                    int (i 4)
                                  PROJECT
                                               [Project Number
      1
                                                                                        ]
           5 -
                         (i 2)
                                               [Aircraft (1-TEM, 2-WGT)
COMM
      2
                 6
                    int
                                  AIRCRAFT
                                                                                        1
           7 –
                10
COMM
      3
                    int
                         (i 4)
                                  FLIGHT
                                               [Flight
                                                                                        1
COMM
      4
          11 - 16
                   int
                         (i 6)
                                LINE
                                               [Line
                                                                                        1
COMM
     5
          17 - 24 real (f 8.1) FID
                                              [Fiducial
                                                                                   (s)]
                                              [Date
          25 -
                33 int (i 9) DATE
COMM
     6
                                                                              ddmmyyyy ]
                41 real (f 8.1) TIME
45 int (i 4) BEARING
COMM
      7
          34 -
                                               [Time
                                                                                   (s)
                                                                                        1
COMM
     8
          42 -
                45
                                               [Bearing
                                                                                  (deg)
                                              [Longitude GDA94
          46 - 58 real (f13.6) LONGITUDE
                                                                                 (deg) ]
COMM 9
          59 - 71 real (f13.6) LATITUDE
COMM 10
                                              [Latitude GDA94
                                                                                 (deg) ]
COMM 11
          72 - 82 real (f11.2) EASTING
                                               [Easting MGA55
                                                                                   (m)]
          83 - 94 real (f12.2) NORTHING [Northing MGA55 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter
COMM 12
                                                                                   (m) 1
COMM 13
                                                                                   (m)
        102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter
COMM 14
                                                                                   (m)]
        109 - 116 real (f 8.2) TxHeight [Transmitter GPS height
COMM 15
                                                                                   (m)]
COMM 16
        117 - 124 real (f 8.2) DTM
                                              [DTM
                                                                                   (m) ]
        125 - 134 real (f10.3) MAG
COMM 17
                                               [Compensated TMI
                                                                                  (nT) l
         135 - 144 real (f10.3) CND[1]
145 - 154 real (f10.3) CND[2]
COMM 18
                                               [Conductivity_001
                                                                     0-5 \text{ m}
                                                                                 (mS/m)]
                                                                     5-10 m
COMM 19
                                               [Conductivity_002
                                                                                 (mS/m)
        155 - 164 real (f10.3) CND[3]
                                                                    10-15 m
COMM 20
                                               [Conductivity_003
                                                                                (mS/m) 1
        165 - 174 real (f10.3) CND[4]
COMM 21
                                               [Conductivity_004
                                                                   15-20 m
                                                                                 (mS/m)]
                                               [Conductivity_005
        175 - 184 real (f10.3) CND[5]
                                                                   20-25 m
COMM 22
                                                                                 (mS/m) 1
         185 - 194 real (f10.3) CND[6]
195 - 204 real (f10.3) CND[7]
COMM 23
                                               [Conductivity_006
                                                                     25-30 m
                                                                                 (mS/m)]
                                               [Conductivity_007
                                                                     30 - 35 m
COMM 24
                                                                                 (mS/m)
         205 - 214 real (f10.3) CND[8]
                                                                    35-40 m
COMM 25
                                               [Conductivity_008
                                                                                 (mS/m) ]
         215 - 224 real (f10.3) CND[9]
COMM 26
                                               [Conductivity_009
                                                                    40-45 m
                                                                                 (mS/m)]
COMM 27
         225 - 234 real (f10.3) CND[10]
                                               [Conductivity_010
                                                                    45-50 m
                                                                                 (mS/m)]
COMM 28
         235 - 244 real (f10.3) CND[11]
                                               [Conductivity_011
                                                                     50-55 m
                                                                                 (mS/m)]
         245 - 254 real (f10.3) CND[12]
255 - 264 real (f10.3) CND[13]
                                                                     55-60 m
COMM 29
                                               [Conductivity_012
                                                                                 (mS/m)
```

COMM 30

COMM 31

COMM 32

COMM 33

COMM 34

COMM 35

COMM 36

COMM 37

265 - 274 real (f10.3) CND[14]

275 - 284 real (f10.3) CND[15]

285 - 294 real (f10.3) CND[16]

295 - 304 real (f10.3) CND[17] 305 - 314 real (f10.3) CND[18]

315 - 324 real (f10.3) CND[19]

325 - 334 real (f10.3) CND[20]

COMM 38 335 - 344 real (f10.3) CND[21]

COMM 39	345 - 354	real (f10.3)	CND[22]	[Conductivity_022	105-110 m	(mS/m)]
COMM 40	355 - 364	real (f10.3)	CND[23]	[Conductivity_023	110-115 m	(mS/m)]
COMM 41	365 - 374	real (f10.3)	CND[24]	[Conductivity_024	115-120 m	(mS/m)]
COMM 42	375 - 384	real (f10.3)	CND[25]	[Conductivity_025	120-125 m	(mS/m)]
COMM 43	385 - 394	real (f10.3)	CND[26]	[Conductivity_026	125-130 m	(mS/m)]
COMM 44	395 - 404	real (f10.3)	CND[27]	[Conductivity_027	130-135 m	(mS/m)]
COMM 45	405 - 414	real (f10.3)	CND[28]	[Conductivity_028	135-140 m	(mS/m)]
COMM 46	415 - 424	real (f10.3)	CND[29]	[Conductivity_029	140-145 m	(mS/m)]
COMM 47	425 - 434	real (f10.3)	CND[30]	[Conductivity_030	145-150 m	(mS/m)]
COMM 48	435 - 444	real (f10.3)	CND[31]	[Conductivity_031	150-155 m	(mS/m)]
COMM 49	445 - 454	real (f10.3)	CND[32]	[Conductivity_032	155-160 m	(mS/m)]
COMM 50	455 - 464	real (f10.3)	CND[33]	[Conductivity_033	160-165 m	(mS/m)]
COMM 51	465 - 474	real (f10.3)	CND[34]	[Conductivity_034	165-170 m	(mS/m)]
COMM 52	475 - 484	real (f10.3)	CND[35]	[Conductivity_035	170-175 m	(mS/m)]
COMM 53	485 - 494	real (f10.3)	CND[36]	[Conductivity_036	175-180 m	(mS/m)]
COMM 54	495 - 504	real (f10.3)	CND[37]	[Conductivity_037	180-185 m	(mS/m)]
COMM 55	505 - 514	real (f10.3)	CND[38]	[Conductivity_038	185-190 m	(mS/m)]
COMM 56	515 - 524	real (f10.3)	CND[39]	[Conductivity_039	190-195 m	(mS/m)]
COMM 57	525 - 534	real (f10.3)	CND[40]	[Conductivity_040	195-200 m	(mS/m)]
COMM118	1135 -1144	real (f10.3)	INT_CND_0_5	[Interval Conductiv	ity 0-5m	(mS/m)]
COMM119	1145 -1154	real (f10.3)	INT_CND_5_10	[Interval Conductiv	ity 5-10m	(mS/m)]
COMM120	1155 -1164	real (f10.3)	INT_CND_10_15	[Interval Conductiv	ity 10-15m	(mS/m)]
COMM121	1165 -1174	real (f10.3)	INT_CND_15_20	[Interval Conductiv	ity 15-20m	(mS/m)]
COMM122	1175 -1184	real (f10.3)	INT_CND_20_30	[Interval Conductiv	ity 20-30m	(mS/m)]
COMM123	1185 -1194	real (f10.3)	INT_CND_30_40	[Interval Conductiv	ity 30-40m	(mS/m)]
COMM124	1195 -1204	real (f10.3)	INT_CND_40_60	[Interval Conductiv	ity 40-60m	(mS/m)]
COMM125	1205 -1214	real (f10.3)	INT_CND_60_10)[Interval Conductiv	ity 60-100m	(mS/m)]
COMM126	1215 -1224	real (f10.3) II	NT_CND_100_150	[Interval Conductivit	y 100-150m (ms	3/m)]	
COMM127	1225 -1234	real (f10.3) II	NT_CND_150_200	[Interval Conductivit	y 150-200m (ms	3/m)]	
COMM	1235 -1236	<newline></newline>					

COMM Total number of lines : 268

COMM Total Kilometres : 8659.97

DUBBO N1-3 NON-GEOMERTY CORRECTED (LMRAEM_N1-3_NON-HPR.HDR)

```
COMM JOB NUMBER:
                                                                          1835
COMM AREA NUMBER:
                                                                     N1-3/L1-6
COMM SURVEY COMPANY:
                                                       Fugro Airborne Surveys
COMM CLIENT:
COMM SURVEY TYPE:
                                                           25Hz TEMPEST Survey
                                                    Lower Macquarie River AEM
COMM AREA NAME:
                                                                           NSW
COMM STATE:
                                                                     Australia
COMM COUNTRY:
COMM SURVEY FLOWN:
                                                           January-April, 2007
                                                                     June 2007
COMM LOCATED DATA CREATED:
COMM
COMM DATUM:
                                                                         GDA94
COMM PROJECTION:
                                                                           MGA
COMM ZONE:
                                                                            55
COMM SURVEY SPECIFICATIONS
COMM
COMM TRAVERSE LINE SPACING:
                                                                     300-900 m
COMM TRAVERSE LINE DIRECTION:
                                                                   090-270 deg
COMM NOMINAL TERRAIN CLEARANCE:
                                                                         115 m
COMM FINAL LINE KILOMETRES:
                                                                   26529.31 km
COMM
COMM LINE NUMBERING
COMM
COMM TRAVERSE LINE NUMBERS:
                                                                 20010 - 26210
COMM
COMM AREA BOUNDARY (GDA94, MGA55)
COMM
COMM 499200 6637200
                               503100 6517200
COMM 581100 6637200
                               503100 6523500
COMM 581100 6567437
                               554672 6523500
COMM 597855 6504531
                               543300 6561106
COMM 624900 6477900
                               543300 6565200
                               505200 6565200
COMM 624900 6451200
                             505200 6565200

505200 6570000

543300 6570000

543300 6610200

505200 6616800

543300 6616800
COMM 503100 6451200
COMM 503100 6462000
COMM 558900 6462000
COMM 558900 6489000
COMM 503100 6489000
COMM 503100 6500700
COMM 558900 6500700
COMM 558900 6509516
                               543300 6626400
                                499200 6626400
COMM 556550 6517200
COMM
COMM
COMM SURVEY EQUIPMENT
COMM
                                                      Skyvan SC-3-200, VH-WGT
COMM AIRCRAFT:
                                                 CASA C212 Turbo Prop, VH-TEM
COMM
COMM
COMM MAGNETOMETER:
                                                 Scintrex Cs-2 Caesium Vapour
COMM INSTALLATION:
                                                                 stinger mount
COMM RESOLUTION:
                                                                      0.001 nT
COMM RECORDING INTERVAL:
                                                                         0.2 s
COMM
COMM ELECTROMAGNETIC SYSTEM:
                                                                  25Hz TEMPEST
COMM INSTALLATION:
                                   Transmitter loop mounted on the aircraft
COMM
                                              Receiver coils in a towed bird
COMM COIL ORIENTATION:
                                                                           X.Z
                                                                         0.2 s
COMM RECORDING INTERVAL:
COMM SYSTEM GEOMETRY:
                                                                      120.7 m
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER (TEM AVERAGE):
```

```
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER (TEM AVERAGE):
                                                                 39.4 m
                                                                115.6 m
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER (WGT AVERAGE):
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER (WGT AVERAGE):
                                                                 43 2 m
COMM
COMM RADAR ALTIMETER:
                                                      Sperry RT-220 (TEM)
                                                      Collins ALT55 (WGT)
COMM RADAR ALTIMETER:
COMM RECORDING INTERVAL:
                                                                   0.2 s
COMM
COMM LASER ALTIMETER:
                                                       Optech 501SB (TEM)
                                                  Regal LD90-3300HR (WGT)
COMM LASER ALTIMETER:
COMM RECORDING INTERVAL:
COMM
                                               real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
COMM ACQUISITION SYSTEM:
                                                               PDAS-1000
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
                                                                56715 nT
COMM DIURNAL BASE VALUE APPLIED
COMM PARALLAX CORRECTION APPLIED (WGT)
                                                                   0.4 s
COMM PARALLAX CORRECTION APPLIED (TEM)
                                                                   0.6 s
COMM IGRF BASE VALUE APPLIED
                                                                56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                  2006.9
COMM
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                   0.2 \, s
COMM Z-COMPONENT EM DATA
                                                                   1.4 s
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                  0.6 s
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                   0.0 s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
COMM Because of the inherent inaccuracies of this method, no guarantee is
COMM made or implied that the information displayed is a true
COMM representation of the height above sea level. Although this product
COMM may be of some use as a general reference,
COMM THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.
COMM -----
COMM
COMM ELECTROMAGNETIC SYSTEM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
COMM WINDOW START END CENTRE COMM 1 0.007 0.020 0.013
                                  CENTRE
```

COMM 1 1 - 4 int (i 4) COMM 2 5 - 6 int (i 2) COMM 3 7 - 10 int (i 4) AIRCRAFT [Aircraft (1-TEM, 2-WGT) FLIGHT [Flight COMM 4 11 - 16 int (i 6) LINE [Line COMM 5 17 - 24 real (f 8.1) FID [Fiducial (s)] COMM 6 25 - 33 int (i 9) DATE COMM 7 34 - 41 real (f 8.1) TIME COMM 8 42 - 45 int (i 4) BEARING [Date ddmmyyyy] [Time (s)] COMM 7 34 - 41 1001 (i 4) BEARING [Bearing COMM 9 46 - 58 real (f13.6) LONGITUDE [Longitude GDA94 71 2021 (f13.6) LATITUDE [Latitude GDA94] (deg) (deg)] (deg)] COMM11 72 - 82 real (f11.2) EASTING [Easting MGA55 COMM12 83 - 94 real (f12.2) NORTHING [Northing MGA55 COMM13 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter COMM14 102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter (m)] (m) 1 (m) 1 (m) 1 COMM15 109 - 116 real (f 8.2) TxHeight [Transmitter GPS height (m)] COMM15 109 - 110 104 (2 COMM16 117 - 124 real (f 8.2) DTM [DTM (m)] COMM16 117 - 124 real (f 8.2) DTM [DTM (m)]

COMM17 125 - 134 real (f10.3) MAG [Compensated TMI (nT)]

COMM18 135 - 144 real (f10.5) Roll_Raw [Raw Tx loop roll (deg)]

COMM19 145 - 154 real (f10.5) Pitch_Raw [Raw Tx loop pitch (deg)]

COMM20 155 - 160 real (f 6.1) TxLasalt [Tx ground clearance (m)]

COMM21 161 - 168 real (f 8.2) HSep_Raw [Raw Tx-Rx horizontal separation (m)]

COMM22 169 - 176 real (f 8.2) VSep_Raw [Raw Tx-Rx vertical separation (m)]

COMM23 177 - 186 real (f10.3) X_Geofact [X_Geometric factor]

COMM24 187 - 196 real (f10.3) Z_Geofact [Z_Geometric factor]

COMM25 197 - 208 real (f12.6) EMX_Raw[1] [Raw EMX01 Window (fT)]

COMM26 209 - 220 real (f12.6) EMX_Raw[2] [Raw EMX02 Window (fT)] COMM26 209 - 220 real (f12.6) EMX Raw[2] [Raw EMX02 Window (fT)] COMM27 221 - 232 real (f12.6) EMX_Raw[3] [Raw EMX03 Window (fT)] COMM28 233 - 244 real (f12.6) EMX_Raw[4] [Raw EMX04 Window (fT)] [Raw EMX05 Window COMM29 245 - 256 real (f12.6) EMX_Raw[5] COMM30 257 - 268 real (f12.6) EMX_Raw[6] (fT)] [Raw EMX06 Window (fT)] COMM31 269 - 280 real (f12.6) EMX_Raw[7] [Raw EMX07 Window (fT)] COMM32 281 - 292 real (f12.6) EMX_Raw[8] [Raw EMX08 Window (fT)] COMM33 293 - 304 real (f12.6) EMX_Raw[9] [Raw EMX09 Window (fT)] COMM34 305 - 316 real (f12.6) EMX_Raw[10] [Raw EMX10 Window COMM35 317 - 328 real (f12.6) EMX_Raw[11] [Raw EMX11 Window COMM36 329 - 340 real (f12.6) EMX_Raw[12] [Raw EMX12 Window (fT)] (fT)] (fT)]

						_
COMM37			real (f12.6)		[Raw EMX13 Window	(fT)]
COMM38			real (f12.6)		[Raw EMX14 Window	(fT)]
COMM39			real (f12.6)		[Raw EMX15 Window	(fT)]
COMM40			real (f12.6)		[Raw EMZ01 Window	(fT)]
COMM41	389 -	400	real (f12.6)		[Raw EMZ02 Window	(fT)]
COMM42	401 -	412	real (f12.6)	EMZ_Raw[3]	[Raw EMZ03 Window	(fT)]
COMM43	413 -	424	real (f12.6)	EMZ_Raw[4]	[Raw EMZ04 Window	(fT)]
COMM44	425 -	436	real (f12.6)	EMZ_Raw[5]	[Raw EMZ05 Window	(fT)]
COMM45	437 -	448	real (f12.6)	EMZ_Raw[6]	[Raw EMZ06 Window	(fT)]
COMM46	449 -	460	real (f12.6)	EMZ_Raw[7]	[Raw EMZ07 Window	(fT)]
COMM47	461 -	472	real (f12.6)	EMZ_Raw[8]	[Raw EMZ08 Window	(fT)]
COMM48	473 -	484	real (f12.6)	EMZ_Raw[9]	[Raw EMZ09 Window	(fT)]
COMM49	485 -	496	real (f12.6)	EMZ_Raw[10]	[Raw EMZ10 Window	(fT)]
COMM50	497 -	508	real (f12.6)	EMZ_Raw[11]	[Raw EMZ11 Window	(fT)]
COMM51	509 -	520	real (f12.6)	EMZ_Raw[12]	[Raw EMZ12 Window	(fT)]
COMM52	521 -	532	real (f12.6)	EMZ_Raw[13]	[Raw EMZ13 Window	(fT)]
COMM53	533 -	544	real (f12.6)	EMZ_Raw[14]	[Raw EMZ14 Window	(fT)]
COMM54	545 -	556	real (f12.6)	EMZ_Raw[15]	[Raw EMZ15 Window	(fT)]
COMM55	557 -	566	real (f10.3)	X_Sferics	[X_Sferics]
COMM56	567 -	576	real (f10.3)	Z_Sferics	[Z_Sferics]
COMM57	577 -	586	real (f10.3)	X_VLF1	[X_18.2kHz]
COMM58	587 -	596	real (f10.3)	X_VLF2	[X_19.8kHz]
COMM59	597 -	606	real (f10.3)	X_VLF3	[X_21.4kHz]
COMM60	607 -	616	real (f10.3)	X_VLF4	[X_22.2kHz]
COMM61	617 -	626	real (f10.3)	Z_VLF1	[Z_18.2kHz]
COMM62	627 -	636	real (f10.3)	Z_VLF2	[Z_19.8kHz]
COMM63	637 -	646	real (f10.3)	Z_VLF3	[Z_21.4kHz]
COMM64	647 -	656	real (f10.3)	Z_VLF4	[Z_22.2kHz]
COMM65	657 -	666	real (f10.3)	X_Powerline	[X_Powerline]
COMM66	667 -	676	real (f10.3)	<pre>Z_Powerline</pre>	[Z_Powerline]
COMM67	677 -	686	real (f10.3)	X_Lowfreq	[X_Lowfreq]
COMM68	687 -	696	real (f10.3)	Z_Lowfreq	[Z_Lowfreq]
COMM	697 -	698	<newline></newline>			
COMM						

COMM Total number of lines : 507 COMM Total Kilometres : 26529.31

DUBBO N1-3 GEOMETRY CORRECTED (LMRAEM_N1-3_HPR.HDR)

		•		,
	JOB NUMBER:			1835
	AREA NUMBER:			N1-3/L1-6
	SURVEY COMPANY:			Fugro Airborne Surveys
	CLIENT: SURVEY TYPE:			BRS 25Hz TEMPEST Survey
	AREA NAME:			Lower Macquarie River AEM
	STATE:			NSW
	COUNTRY:			Australia
COMM	SURVEY FLOWN:			January-April, 2007
	LOCATED DATA CREATED:			June 2007
COMM	D.3. (117.11.)			CD 7 0 4
	DATUM:			GDA94
	PROJECTION: ZONE:			MGA 55
COMM	ZONE			33
	SURVEY SPECIFICATIONS			
COMM				
	TRAVERSE LINE SPACING:			300-900 m
	TRAVERSE LINE DIRECTION:			090-270 deg
	NOMINAL TERRAIN CLEARANCE	:		115 m
COMM	FINAL LINE KILOMETRES:			26529.31 km
	LINE NUMBERING			
COMM				
COMM	TRAVERSE LINE NUMBERS:			20010 - 26210
COMM				
	AREA BOUNDARY (GDA94, MGA	55)		
COMM	400000 6637000	E02100	CE17200	
	499200 6637200 581100 6637200	503100	6517200 6523500	
	581100 6567437	554672		
	597855 6504531	543300		
COMM	624900 6477900	543300	6565200	
COMM	624900 6451200	505200	6565200	
	503100 6451200	505200	6570000	
	503100 6462000	543300		
	558900 6462000 558900 6489000	543300 505200	6610200 6610200	
	503100 6489000		6616800	
	503100 6500700		6616800	
	558900 6500700		6626400	
COMM	558900 6509516	499200	6626400	
	556550 6517200			
COMM				
COMM	CIDVEN FOILDMENT			
COMM	SURVEY EQUIPMENT			
	AIRCRAFT:			Skyvan SC-3-200, VH-WGT
COMM				CASA C212 Turbo Prop, VH-TEM
COMM				
	MAGNETOMETER:			Scintrex Cs-2 Caesium Vapour
	INSTALLATION:			stinger mount
	RESOLUTION:			0.001 nT
COMM	RECORDING INTERVAL:			0.2 s
	ELECTROMAGNETIC SYSTEM:			25Hz TEMPEST
	INSTALLATION:	Tra	nsmitter	loop mounted on the aircraft
COMM				eceiver coils in a towed bird
	COIL ORIENTATION:			X,Z
	RECORDING INTERVAL:			0.2 s
	SYSTEM GEOMETRY: RECEIVER DISTANCE BEHIND	ייינטי יוניי	• صعبت ۱۳۵۲	115 m
COMM	VECETAEK DISTANCE BEHIND	TUP IKAN	SHITITEK.	112 (((

```
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER:
                                                                      45 m
COMM
COMM RADAR ALTIMETER:
                                                       Sperry RT-220 (TEM)
                                                       Collins ALT55 (WGT)
COMM RADAR ALTIMETER:
COMM RECORDING INTERVAL:
                                                                     0.2 s
COMM
                                                        Optech 501SB (TEM)
COMM LASER ALTIMETER:
                                                   Regal LD90-3300HR (WGT)
COMM LASER ALTIMETER:
COMM RECORDING INTERVAL:
COMM
                                                real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
                                                                     1.0 \, \mathrm{s}
COMM
COMM ACQUISITION SYSTEM:
                                                                 PDAS-1000
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
COMM DIURNAL BASE VALUE APPLIED
                                                                  56715 nT
COMM PARALLAX CORRECTION APPLIED (WGT)
                                                                     0.4 s
COMM PARALLAX CORRECTION APPLIED (TEM)
                                                                     0.6 s
COMM IGRF BASE VALUE APPLIED
                                                                  56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                    2006.9
COMM
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                     0.2 s
COMM Z-COMPONENT EM DATA
                                                                     1.4 s
COMM DATA CORRECTED FOR TRANSMITTER HEIGHT, PITCH AND ROLL
COMM DATA CORRECTED FOR TRANSMITTER-RECEIVER GEOMETRY VARIATIONS
COMM DATA HAVE BEEN MICROLEVELLED
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                    0.6 s
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                     0.0 \, s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
COMM Because of the inherent inaccuracies of this method, no guarantee is
COMM made or implied that the information displayed is a true
COMM representation of the height above sea level. Although this product
COMM may be of some use as a general reference,
COMM THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.
COMM
COMM ELECTROMAGNETIC SYSTEM
COMM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
COMM WINDOW
               START
                           END
                                   CENTRE
```

COMM Number of fields : 68

COMM

Field Columns Type Format Channel Description [Project Number [Aircraft (1-TEM, 2-WGT) [Flight [Line 4 int (i 4) PROJECT 1 -] 5 - 6 int (i 2) AIRCRAFT 7 - 10 int (i 4) FLIGHT] 3 1 11 - 16 int (i 6) LINE 17 - 24 real (f 8.1) FID [Fiducial (s)] 6 ddmmyyyy] 7 (s)] 8 (deg) 9 (deg)] 10 (deg)] 11 (m)] 12 (m)] (m)] (m)] 13 14 (m) 1 15 (m)] 117 - 124 real (f 8.2) DTM [DTM (m)]
125 - 134 real (f10.3) MAG [Compensated TMI (nT)]
135 - 144 real (f10.5) Roll_Final [Final Tx loop roll (deg)]
145 - 154 real (f10.5) Pitch_Final [Final Tx loop pitch (deg)]
155 - 160 real (f 6.1) TxAlt [Tx ground clearance (m)]
161 - 168 real (f 8.2) HSep_Final [Final Tx-Rx horizontal separation (m)]
169 - 176 real (f 8.2) VSep_Final [Final Tx-Rx vertical separation (m)]
177 - 186 real (f10.3) X_Geofact [X_Geometric factor]
187 - 196 real (f10.3) Z_Geofact [Z_Geometric factor]
197 - 208 real (f12.6) EMX_Final[1] [Final EMX01 Window (fT)]
209 - 220 real (f12.6) EMX_Final[3] [Final EMX02 Window (fT)]
211 - 232 real (f12.6) EMX_Final[4] [Final EMX03 Window (fT)]
233 - 244 real (f12.6) EMX_Final[4] [Final EMX04 Window (fT)] 17 18 19 20 21 22 23 24 25 26 2.7 233 - 244 real (f12.6) EMX_Final[4] [Final EMX04 Window 245 - 256 real (f12.6) EMX_Final[5] [Final EMX05 Window 257 - 268 real (f12.6) EMX_Final[6] [Final EMX06 Window 269 - 280 real (f12.6) EMX_Final[7] [Final EMX07 Window (fT)] 2.8 29 (fT) 1 30 (fT) (fT)] 31 281 - 292 real (f12.6) EMX_Final[8] [Final EMX08 Window 293 - 304 real (f12.6) EMX_Final[9] [Final EMX09 Window 305 - 316 real (f12.6) EMX_Final[10] [Final EMX10 Window (fT) l 33 (fT)] (fT)]

35	317 - 328	real (f12.6)	EMX_Final[11]	[Final EMX11 Window	(fT)]
36	329 - 340	real (f12.6)	EMX_Final[12]	[Final EMX12 Window	(fT)]
37	341 - 352	real (f12.6)	EMX_Final[13]	[Final EMX13 Window	(fT)]
38	353 - 364	real (f12.6)	EMX_Final[14]	[Final EMX14 Window	(fT)]
39	365 - 376	real (f12.6)	EMX_Final[15]	[Final EMX15 Window	(fT)]
40	377 - 388	real (f12.6)	EMZ_Final[1]	[Final EMZ01 Window	(fT)]
41	389 - 400	real (f12.6)	<pre>EMZ_Final[2]</pre>	[Final EMZ02 Window	(fT)]
42	401 - 412	real (f12.6)	<pre>EMZ_Final[3]</pre>	[Final EMZ03 Window	(fT)]
43	413 - 424	real (f12.6)	EMZ_Final[4]	[Final EMZ04 Window	(fT)]
44	425 - 436	real (f12.6)	EMZ_Final[5]	[Final EMZ05 Window	(fT)]
45	437 - 448	real (f12.6)	<pre>EMZ_Final[6]</pre>	[Final EMZ06 Window	(fT)]
46	449 - 460	real (f12.6)	<pre>EMZ_Final[7]</pre>	[Final EMZ07 Window	(fT)]
47	461 - 472	real (f12.6)	EMZ_Final[8]	[Final EMZ08 Window	(fT)]
48	473 - 484	real (f12.6)	EMZ_Final[9]	[Final EMZ09 Window	(fT)]
49	485 - 496	real (f12.6)	EMZ_Final[10]	[Final EMZ10 Window	(fT)]
50	497 - 508	real (f12.6)	EMZ_Final[11]	[Final EMZ11 Window	(fT)]
51	509 - 520	real (f12.6)	EMZ_Final[12]	[Final EMZ12 Window	(fT)]
52	521 - 532	real (f12.6)	EMZ_Final[13]	[Final EMZ13 Window	(fT)]
53	533 - 544	real (f12.6)	EMZ_Final[14]	[Final EMZ14 Window	(fT)]
54	545 - 556	real (f12.6)	EMZ_Final[15]	[Final EMZ15 Window	(fT)]
55	557 - 566	real (f10.3)	X_Sferics	[X_Sferics]
56	567 - 576	real (f10.3)	Z_Sferics	[Z_Sferics]
57	577 - 586	real (f10.3)	X_VLF1	[X_18.2kHz]
58	587 - 596	real (f10.3)	X_VLF2	[X_19.8kHz]
59	597 - 606	real (f10.3)	X_VLF3	[X_21.4kHz]
60	607 - 616		X_VLF4	[X_22.2kHz]
61	617 - 626	real (f10.3)	Z_VLF1	[Z_18.2kHz]
62	627 - 636	real (f10.3)	Z_VLF2	[Z_19.8kHz]
63	637 - 646			[Z_21.4kHz]
64	647 - 656	real (f10.3)	Z_VLF4	[Z_22.2kHz]
65	657 - 666	real (f10.3)	X_Powerline	[X_Powerline]
66	667 - 676	real (f10.3)	<pre>Z_Powerline</pre>	[Z_Powerline]
67	677 - 686	real (f10.3)	X_Lowfreq	[X_Lowfreq]
68	687 - 696	real (f10.3)	<pre>Z_Lowfreq</pre>	[Z_Lowfreq]
	697 - 698	<newline></newline>			

COMM Total number of lines : 507

COMM Total Kilometres : 26529.31

DUBBO N1-3 Conductivity data

	•			
COMM	JOB NUMBER:			1835
	AREA NUMBER:			N1-3/L1-6
	SURVEY COMPANY:			Fugro Airborne Surveys
	CLIENT:			BRS
	SURVEY TYPE:			25Hz TEMPEST Survey
	AREA NAME:			Lower Macquarie River AEM
	STATE: COUNTRY:			NSW Australia
	SURVEY FLOWN:			January-April, 2007
	LOCATED DATA CREATED:			June 2007
COMM	Ederiild Britis Charilles			0 and 2007
	DATUM:			GDA94
	PROJECTION:			MGA
COMM	ZONE:			55
COMM				
COMM	SURVEY SPECIFICATIONS			
COMM				
COMM	TRAVERSE LINE SPACING:			300-900 m
	TRAVERSE LINE DIRECTION:			090-270 deg
	NOMINAL TERRAIN CLEARANCE	:		115 m
	FINAL LINE KILOMETRES:			26529.31 km
COMM				
	LINE NUMBERING			
COMM	MDAMADOR I THE MIMDEDO.			20010 26210
COMM	TRAVERSE LINE NUMBERS:			20010 - 26210
	AREA BOUNDARY (GDA94, MGA	55)		
COMM	AKEA BOONDAKI (GDA)1, MGA	<i>33</i>)		
	499200 6637200	503100	6517200	
	581100 6637200		6523500	
	581100 6567437	554672	6523500	
	597855 6504531		6561106	
COMM	624900 6477900	543300	6565200	
COMM	624900 6451200	505200	6565200	
COMM	503100 6451200	505200	6570000	
COMM	503100 6462000	543300	6570000	
COMM	558900 6462000	543300	6610200	
COMM	558900 6489000	505200	6610200	
	503100 6489000		6616800	
	503100 6500700		6616800	
	558900 6500700		6626400	
	558900 6509516	499200	6626400	
	556550 6517200			
COMM				
COMM	CIDVEY EQUIDMENT			
COMM	SURVEY EQUIPMENT			
	AIRCRAFT:			Skyvan SC-3-200, VH-WGT
COMM				CASA C212 Turbo Prop, VH-TEM
COMM				cheff cara range frop, vii fan
	MAGNETOMETER:			Scintrex Cs-2 Caesium Vapour
	INSTALLATION:			stinger mount
	RESOLUTION:			0.001 nT
	RECORDING INTERVAL:			0.2 s
COMM				
COMM	ELECTROMAGNETIC SYSTEM:			25Hz TEMPEST
	INSTALLATION:	Tra		loop mounted on the aircraft
COMM			Re	eceiver coils in a towed bird
	COIL ORIENTATION:			X,Z
	RECORDING INTERVAL:			0.2 s
	SYSTEM GEOMETRY:	يتقريب فللنب	CMTmm	115
COMM	RECEIVER DISTANCE BEHIND	ınr ıkan	OMITITEK:	115 m

```
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER:
                                                                      45 m
COMM
COMM RADAR ALTIMETER:
                                                       Sperry RT-220 (TEM)
                                                       Collins ALT55 (WGT)
COMM RADAR ALTIMETER:
COMM RECORDING INTERVAL:
                                                                     0.2 s
COMM
                                                        Optech 501SB (TEM)
COMM LASER ALTIMETER:
                                                   Regal LD90-3300HR (WGT)
COMM LASER ALTIMETER:
COMM RECORDING INTERVAL:
COMM
                                                real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
                                                                     1.0 \, \mathrm{s}
COMM
COMM ACQUISITION SYSTEM:
                                                                 PDAS-1000
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
COMM DIURNAL BASE VALUE APPLIED
                                                                  56715 nT
COMM PARALLAX CORRECTION APPLIED (WGT)
                                                                     0.4 s
COMM PARALLAX CORRECTION APPLIED (TEM)
                                                                     0.6 s
COMM IGRF BASE VALUE APPLIED
                                                                  56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                    2006.9
COMM
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                     0.2 s
COMM Z-COMPONENT EM DATA
                                                                     1.4 s
COMM DATA CORRECTED FOR TRANSMITTER HEIGHT, PITCH AND ROLL
COMM DATA CORRECTED FOR TRANSMITTER-RECEIVER GEOMETRY VARIATIONS
COMM DATA HAVE BEEN MICROLEVELLED
COMM CONDUCTIVITY DEPTH INVERSION CALCULATED
                                                              EMFlow V5 10
COMM CONDUCTIVITIES CALCULATED USING corrected EM DATA
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                     0.6 s
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                     0.0 \, s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
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COMM made or implied that the information displayed is a true
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COMM
COMM ELECTROMAGNETIC SYSTEM
COMM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
```

COMM 32 275 - 284 real (f10.3) CND[15]

```
COMM
COMM WINDOW
                   START
                                 END
                                            CENTRE
                    0.007
                                 0.020
COMM
         1
                                             0 013
         2
                   0.033
                                0.047
                                             0.040
COMM
                                             0.067
         3
                   0.060
                                0.073
COMM
         4
                                0.127
COMM
                   0.087
                                             0.107
COMM
         5
                   0.140
                                0.207
                                             0.173
COMM
         6
                   0.220
                                0.340
                                             0.280
         7
COMM
                   0.353
                                0.553
                                             0.453
         8
                   0.567
                               0.873
                                            0.720
COMM
         Q
                               1.353
COMM
                   0.887
                                            1.120
        10
                               2.100
                                            1.733
COMM
                   1.367
        11
                                3.273
                                            2.693
COMM
                   2.113
        12
                                5.113
COMM
                   3.287
                                             4.200
                                7.993
COMM
        13
                   5.127
                                            6.560
COMM
        14
                   8.007
                              12.393
                                            10.200
COMM
        15
                  12.407
                              19.993
                                            16.200
COMM
COMM PULSE WIDTH: 10 ms
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a 1sq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
                          : 127
COMM Number of fields
COMM
COMM Field
               Columns Type Format Channel
                                                            Description
COMM
           1 -
COMM
      1
                 4 int (i 4)
                                 PROJECT
                                               [Project Number
                                                                                          1
           5 - 6 int (i 2)
7 - 10 int (i 4)
COMM
      2
                                  AIRCRAFT
                                                [Aircraft (1-TEM, 2-WGT)
                                                                                          ]
COMM
      3
                                  FLIGHT
                                                [Flight
                                                                                          1
          11 - 16 int (i 6) LINE
COMM
      4
                                                [Line
                                                                                          1
          17 - 24 real (f 8.1) FID
COMM
     5
                                               [Fiducial
                                                                                     (s)]
          25 - 33 int (i 9) DATE
COMM
     6
                                               [Date
                                                                                ddmmyyyy ]
          34 - 41 real (f 8.1) TIME
42 - 45 int (i 4) BEARING
                                               [Time
      7
COMM
                                                                                     (s)]
                                                                                   (deg)
COMM
      8
                                                [Bearing
          46 - 58 real (f13.6) LONGITUDE [Longitude GDA94
COMM 9
                                                                                   (deg) ]
          59 - 71 real (f13.6) LATITUDE
                                               [Latitude GDA94
                                                                                   (deg) ]
COMM 10
COMM 11
          72 - 82 real (f11.2) EASTING
                                               [Easting MGA55
                                                                                    (m) 1
         83 - 94 real (f12.2) NORTHING [Northing MGA55
95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter
102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter
COMM 12
                                                                                     (m) ]
COMM 13
                                                                                     (m)
COMM 14
                                                                                     (m)
COMM 15 109 - 116 real (f 8.2) TxHeight [Transmitter GPS height
                                                                                     (m) ]
COMM 16 117 - 124 real (f 8.2) DTM
                                                [DTM
                                                                                     (m)]
        125 - 134 real (f10.3) MAG
                                               [Compensated TMI
COMM 17
                                                                                    (nT) ]
        135 - 144 real (f10.3) CND[1]
145 - 154 real (f10.3) CND[2]
155 - 164 real (f10.3) CND[3]
                                               [Conductivity_001
COMM 18
                                                                       0-5 \text{ m}
                                                                                  (mS/m)]
COMM 19
                                                [Conductivity_002
                                                                       5-10 m
                                                                                   (mS/m)
                                                [Conductivity_003 10-15 m
                                                                                   (mS/m)]
COMM 20
        165 - 174 real (f10.3) CND[4]
                                               [Conductivity_004 15-20 m
COMM 21
                                                                                  (mS/m)]
COMM 22
        175 - 184 real (f10.3) CND[5]
                                               [Conductivity_005
                                                                    20-25 m
                                                                                   (mS/m)]
        185 - 194 real (f10.3) CND[6]
195 - 204 real (f10.3) CND[7]
205 - 214 real (f10.3) CND[8]
215 - 224 real (f10.3) CND[9]
                                                                    25-30 m
                                                [Conductivity_006
COMM 23
                                                                                  (mS/m) 1
COMM 24
                                                [Conductivity_007
                                                                      30-35 m
                                                                                   (mS/m)
                                                                    35-40 m
COMM 25
                                                [Conductivity_008
                                                                                   (mS/m)
                                                                    40-45 m
COMM 26
                                                                                  (mS/m) ]
                                                [Conductivity_009
         225 - 234 real (f10.3) CND[10]
                                               [Conductivity_010 45-50 m
COMM 27
                                                                                   (mS/m)]
COMM 28
        235 - 244 real (f10.3) CND[11]
                                               [Conductivity_011 50-55 m
                                                                                   (mS/m) 1
COMM 29 245 - 254 real (f10.3) CND[12]
COMM 30 255 - 264 real (f10.3) CND[13]
COMM 31 265 - 274 real (f10.3) CND[14]
                                               [Conductivity_012
[Conductivity_013
                                                                      55-60 m
                                                                                   (mS/m)]
                                                                      60-65 m
                                                                                   (mS/m)
                                                [Conductivity_014 65-70 m
                                                                                  (mS/m) 1
```

[Conductivity_015 70-75 m

(mS/m)]

COMM 33	285 - 294	real (f10.3)	CND[16]	[Conductivity 016	75-80 m	(mS/m)	1
COMM 34	295 - 304	real (f10.3)	CND[17]	[Conductivity_017	80-85 m	(mS/m)	i
COMM 35	305 - 314	real (f10.3)	CND[18]	[Conductivity 018	85-90 m	(mS/m)	ì
COMM 36	315 - 324	real (f10.3)	CND[19]	[Conductivity 019	90-95 m	(mS/m)	i
COMM 37	325 - 334	real (f10.3)	CND[20]	[Conductivity_020	95-100 m	(mS/m)	i
COMM 38	335 - 344	real (f10.3)	CND[21]	[Conductivity 021	100-105 m	(mS/m)	i
COMM 39	345 - 354	real (f10.3)	CND[21]	[Conductivity 022	105-110 m	(mS/m)	i
COMM 40	355 - 364	real (f10.3)	CND[23]	[Conductivity 023	110-115 m	(mS/m)	1
COMM 41	365 - 374	real (f10.3)	CND[24]	[Conductivity 024	115-120 m	(mS/m)	i
COMM 42	375 - 384	real (f10.3)	CND[25]	[Conductivity 025	120-125 m	(mS/m)	i
COMM 43	385 - 394	real (f10.3)	CND[26]	[Conductivity 026	125-130 m	(mS/m)	i
COMM 44	395 - 404	real (f10.3)	CND[27]	[Conductivity 027	130-135 m	(mS/m)	i
COMM 45	405 - 414	real (f10.3)	CND[28]	[Conductivity 028	135-140 m	(mS/m)	ì
COMM 46	415 - 424	real (f10.3)	CND[29]	[Conductivity 029	140-145 m	(mS/m)	i
COMM 47	425 - 434	real (f10.3)	CND[30]	[Conductivity 030	145-150 m	(mS/m)	i
COMM 48	435 - 444	real (f10.3)	CND[31]	[Conductivity_031	150-155 m	(mS/m)	í
COMM 49	445 - 454	real (f10.3)	CND[32]	[Conductivity 032	155-160 m	(mS/m)	i
COMM 50	455 - 464	real (f10.3)	CND[33]	[Conductivity 033	160-165 m	(mS/m)	i
COMM 51	465 - 474	real (f10.3)	CND[34]	[Conductivity 034	165-170 m	(mS/m)	i
COMM 52	475 - 484	real (f10.3)	CND[35]	[Conductivity 035	170-175 m	(mS/m)	i
COMM 53	485 - 494	real (f10.3)	CND[36]	[Conductivity_036	175-180 m	(mS/m)	j
COMM 54	495 - 504	real (f10.3)	CND[37]	[Conductivity_037	180-185 m	(mS/m)	j
COMM 55	505 - 514	real (f10.3)	CND[38]	[Conductivity_038	185-190 m	(mS/m)]
COMM 56	515 - 524	real (f10.3)	CND[39]	[Conductivity_039	190-195 m	(mS/m)]
COMM 57	525 - 534	real (f10.3)	CND[40]	[Conductivity_040	195-200 m	(mS/m)]
COMM118	1135 -1144	real (f10.3)	INT_CND_0_5	[Interval Conductive	ity 0-5m	(mS/m)]
COMM119	1145 -1154	real (f10.3)	INT_CND_5_10	[Interval Conductive	ity 5-10m	(mS/m)]
COMM120	1155 -1164	real (f10.3)	INT_CND_10_15	[Interval Conductive	ity 10-15m	(mS/m)]
COMM121	1165 -1174	real (f10.3)	INT_CND_15_20	[Interval Conductive	ity 15-20m	(mS/m)]
COMM122	1175 -1184	real (f10.3)	INT_CND_20_30	[Interval Conductive	ity 20-30m	(mS/m)]
COMM123	1185 -1194	real (f10.3)	INT_CND_30_40	[Interval Conductive	ity 30-40m	(mS/m)]
COMM124	1195 -1204	real (f10.3)	INT_CND_40_60	[Interval Conductive	ity 40-60m	(mS/m)]
COMM125	1205 -1214	real (f10.3)	INT_CND_60_10	[Interval Conductive	ity 60-100m	(mS/m)]
COMM126	1215 -1224	real (f10.3) IN	NT_CND_100_150	[Interval Conductivity	y 100-150m (m	3/m)]	
COMM127	1225 -1234		NT_CND_150_200	[Interval Conductivity	y 150-200m (m	3/m)]	
COMM	1235 -1236	<newline></newline>					

Total number of lines : 507

Total Kilometres : 26529.31

DUBBO Seismic/Borehole/Repeat Lines - NON-GEOMETRY CORRECTED

(LMRAEM_Test_RptLines_NON-HPR.HDR)

COMM JOB NUMBER: 1835 Seismic/Borehole/Repeat Lines COMM AREA NUMBER: COMM SURVEY COMPANY: Fugro Airborne Surveys COMM CLIENT: 25Hz TEMPEST Survey COMM SURVEY TYPE: COMM AREA NAME: Lower Macquarie River AEM NSW COMM STATE: COMM COUNTRY: Australia COMM SURVEY FLOWN: January-April 2007 June 2007 COMM LOCATED DATA CREATED: COMM COMM DATUM: GDA94 COMM PROJECTION: MGA COMM ZONE: 55 COMM COMM SURVEY SPECIFICATIONS COMM COMM TRAVERSE LINE SPACING: N/A m COMM TRAVERSE LINE DIRECTION: Various deg COMM NOMINAL TERRAIN CLEARANCE: 115 m COMM FINAL LINE KILOMETRES: 235.5 km COMM COMM LINE NUMBERING COMM COMM TRAVERSE LINE NUMBERS: 81090 - 88320 COMM COMM LINE COORDINATES (GDA94, MGA55) COMM COMM LINE 81?? COMM 613347 6434698 610966 6424986 COMM LINE 82?? 603589 6438579 COMM 601924 6428719 COMM LINE 83?? COMM 596009 6435176 605968 6434261 COMM LINE 84?? COMM 601654 6434125 610340 6439080 COMM LINE 85?? COMM 606908 6454490 616415 6451390 COMM LINE 86?? COMM 627600 6439000 627600 6444000 COMM LINE 87?? COMM 589001 6519000 594001 6519000 COMM LINE 88?? 581100 6570000 COMM 576100 6570000 COMM LINE 89?? 581100 6604800 COMM 576100 6604800 COMM COMM COMM SURVEY EQUIPMENT COMM COMM AIRCRAFT: Skyvan SC-3-200, VH-WGT COMM CASA C212 Turbo Prop, VH-TEM COMM COMM MAGNETOMETER: Scintrex Cs-2 Caesium Vapour COMM INSTALLATION: stinger mount COMM RESOLUTION: 0.001 nT 0.2 sCOMM RECORDING INTERVAL: COMM COMM ELECTROMAGNETIC SYSTEM: 25Hz TEMPEST COMM INSTALLATION: Transmitter loop mounted on the aircraft COMM Receiver coils in a towed bird

	COIL ORIENTATION:	X, 2	
	RECORDING INTERVAL:	0.2 s	3
	SYSTEM GEOMETRY: RECEIVER DISTANCE BEHIND THE TRANSMITTER (TEM	I AVERAGE): 120.8 m	n
	RECEIVER DISTANCE BELOW THE TRANSMITTER (TEM		
	RECEIVER DISTANCE BEHIND THE TRANSMITTER (WGT		
	RECEIVER DISTANCE BELOW THE TRANSMITTER (WGT		
COMM			
COMM	RADAR ALTIMETER:	Sperry RT-220 (TEM))
COMM	RADAR ALTIMETER:	Collins ALT55 (WGT))
COMM	RECORDING INTERVAL:	0.2 s	3
COMM			
	LASER ALTIMETER:	Optech 501SB (TEM)	
	LASER ALTIMETER:	Regal LD90-3300HR (WGT)	
COMM	RECORDING INTERVAL:	0.2 s	3
	NAVIGATION:	eal-time differential GPS	7
	RECORDING INTERVAL:	1.0 s	_
COMM		2.0	
	ACQUISITION SYSTEM:	PDAS-1000)
COMM	~		
COMM	DATA PROCESSING		
COMM			
	MAGNETIC DATA		
	DIURNAL BASE VALUE APPLIED	56715 nT	
	PARALLAX CORRECTION APPLIED (WGT)	0.4 s	
	PARALLAX CORRECTION APPLIED (TEM) IGRF BASE VALUE APPLIED	0.6 s 56786 nT	
	IGRF MODEL 2005 EXTRAPOLATED TO	2006.9	
COMM	IGRE MODEL 2005 EXTRAPOLATED TO	2000.9	,
	ELECTROMAGNETIC DATA		
	SYSTEM PARALLAX REMOVED, AS FOLLOWS		
	X-COMPONENT EM DATA	0.2 s	3
COMM	Z-COMPONENT EM DATA	1.4 s	3
COMM			
	DIGITAL TERRAIN DATA		
	PARALLAX CORRECTION APPLIED TO RADAR ALIMETER		-
	PARALLAX CORRECTION APPLIED TO GPS ALIMETER D		3
	DTM CALCULATED [DTM = GPS ALTITUDE - RADAR AL DATA HAVE BEEN MICROLEVELLED	I.T.LODE]	
COMM			_
001	The accuracy of the elevation calculation is	directly dependent on	
	the accuracy of the two input parameters, rad		
	altitude. The radar altitude value may be er		7
	tree cover, where the altimeter reflects the	-	
COMM	canopy rather than the ground. The GPS altit	ude value is primarily	
	dependent on the number of available satellit		
	post-processing of GPS data will yield X and		
	order of 1-2 metres, the accuracy of the alti		
	much less, sometimes in the ±5 metre range.		
	may be introduced during the interpolation an		
	Because of the inherent inaccuracies of this made or implied that the information displaye		
	representation of the height above sea level.		
	may be of some use as a general reference,	interiough chirb product	
	THIS PRODUCT MUST NOT BE USED FOR NAVIGATION	PURPOSES.	
			-
COMM			
COMM	ELECTROMAGNETIC SYSTEM		
COMM			
	TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,		
	TRANSMITTING AT A BASE FREQUENCY OF 25Hz,	WIED DIDD	
	WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TO		

COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.

(fT)]

```
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM

        START
        END
        CENTRE

        0.007
        0.020
        0.013

        0.033
        0.047
        0.040

        0.060
        0.073
        0.067

        0.087
        0.127
        0.107

        0.140
        0.207
        0.173

        0.220
        0.340
        0.280

        0.353
        0.553
        0.453

        0.567
        0.873
        0.720

        0.887
        1.353
        1.120

        1.367
        2.100
        1.733

        2.113
        3.273
        2.693

        3.287
        5.113
        4.200

        5.127
        7.993
        6.560

        8.007
        12.393
        10.200

        12.407
        19.993
        16.200

COMM WINDOW
                               START
                                                       END
                                                                          CENTRE
COMM
                1
                2
COMM
                3
COMM
                4
COMM
COMM
                5
COMM
                6
                7
COMM
               8
COMM
             9
COMM
COMM 10
COMM 11
COMM 12
COMM 13
COMM 14
COMM 15
COMM
COMM PULSE WIDTH: 10 ms
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields : 68
COMM
                           Columns Type Format Channel
COMM Field
                                                                                                     Description
COMM 1 1 - 4 int (i 4) PROJECT [Project Number COMM 2 5 - 6 int (i 2) AIRCRAFT [Aircraft (1-TEM, 2-WGT) COMM 3 7 - 10 int (i 4) FLIGHT [Flight COMM 4 11 - 16 int (i 6) LINE [Line COMM 5 17 - 24 real (f 8.1) FID [Fiducial COMM 6 25 - 33 int (i 9) DATE [Date COMM 7 34 - 41 real (f 8.1) TIVE
COMM
                                                                                                                                           (s)]
                                                                            [Date
[Time
                                                                                                                                  ddmmyyyy ]
COMM 7 34 - 41 real (f 8.1) TIME
                                                                                                                                       (s) ]
COMM 7 34 - 41 real (f 8.1) TIME [Time | COMM 8 42 - 45 int (i 4) BEARING [Bearing | COMM 9 46 - 58 real (f13.6) LONGITUDE [Longitude GDA94 | COMM10 59 - 71 real (f13.6) LATITUDE [Latitude GDA94 | COMM11 72 - 82 real (f11.2) EASTING [Easting MGA55 | COMM12 83 - 94 real (f12.2) NORTHING [Northing MGA55]
                                                                                                                                      (deg) ]
                                                                                                                                       (deg) ]
                                                                                                                                       (deg) ]
                                                                                                                                           (m) 1
                                                                                                                                            (m)]
COMM13 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter
                                                                                                                                           (m) ]
COMM14 102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter
                                                                                                                                          (m) ]
                                                                                                                                          (m) ]
COMM15 109 - 116 real (f 8.2) TxHeight [Transmitter GPS height COMM16 117 - 124 real (f 8.2) DTM [DTM
COMM16 117 - 124 real (f 8.2) DTM [DTM]

COMM17 125 - 134 real (f10.3) MAG [Compensated TMI]

COMM18 135 - 144 real (f10.5) Roll_Raw [Raw Tx loop roll]

COMM19 145 - 154 real (f10.5) Pitch_Raw [Raw Tx loop pitch]

COMM20 155 - 160 real (f 6.1) TxLasalt [Tx ground clearance]

COMM21 161 - 168 real (f 8.2) HSep_Raw [Raw Tx-Rx horizontal]

COMM22 169 - 176 real (f 8.2) VSep_Raw [Raw Tx-Rx vertical]

COMM23 177 - 186 real (f10.3) X_Geofact [X_Geometric factor]

COMM24 187 - 196 real (f10.3) Z_Geofact [Z_Geometric factor]
                                                                                                                                           (m)]
                                                                                                                                        (nT) ]
                                                                                                                                      (deg) ]
                                                                                                                                       (deg) ]
                                                                                                                                           (m)]
                                                                                [Raw Tx-Rx horizontal separation
                                                                                                                                            (m) 1
                                                                                [Raw Tx-Rx vertical separation
                                                                                                                                            (m)]
COMM25 197 - 208 real (f12.6) EMX_Raw[1] [Raw EMX01 Window
                                                                                                                                        (fT) ]
(fT) ]
                                                                                                                                          (fT) ]
                                                                                                                                          (fT) ]
COMM29 245 - 256 real (f12.6) EMX_Raw[5] [Raw EMX05 Window
                                                                                                                                          (fT) ]
COMM30 257 - 268 real (f12.6) EMX_Raw[6] [Raw EMX06 Window
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Lower Ma	cquarie F	River Temp	<u> est Survey – Co</u>	mmonwealth of A	ustralia			Job No. 1835	Page
COMM31	269 -	280 ~	eal (f12 6)	EMX_Raw[7]	[Paw	EMX07 Wind	OM	(fo	r)]
COMM32				EMX_Raw[7]		EMX08 Wind			r)]
COMM33				EMX_Raw[9]		EMX09 Wind			[)]
COMM34				EMX_Raw[9]		EMX10 Wind			[)]
COMM35				EMX_Raw[10]	_	EMX10 Wind			[)]
				_		EMX11 Wind			[)]
COMM36 COMM37				EMX_Raw[12]		EMX12 Wind			[(.
				EMX_Raw[13]					
COMM38				EMX_Raw[14]		EMX14 Wind			[(1
COMM39				EMX_Raw[15]		EMX15 Wind			[(1
COMM40				EMZ_Raw[1]		EMZ01 Wind			[(1
COMM41			eal (f12.6)		=	EMZ02 Wind			[(1
COMM42			eal (f12.6)			EMZ03 Wind			[(1
COMM43			eal (f12.6)	_		EMZ04 Wind			r)]
COMM44			eal (f12.6)	-	=	EMZ05 Wind			r)]
COMM45				EMZ_Raw[6]		EMZ06 Wind			[(]
COMM46				EMZ_Raw[7]		EMZ07 Wind			[(]
COMM47				EMZ_Raw[8]		EMZ08 Wind			[(]
COMM48			,	EMZ_Raw[9]	=	EMZ09 Wind			[(]
COMM49				EMZ_Raw[10]		EMZ10 Wind			[(]
COMM50			, ,	EMZ_Raw[11]	_	EMZ11 Wind			[(]
COMM51				EMZ_Raw[12]		EMZ12 Wind			[(]
COMM52				EMZ_Raw[13]		EMZ13 Wind			[([
COMM53				EMZ_Raw[14]		EMZ14 Wind			[([
COMM54	545 -			EMZ_Raw[15]		EMZ15 Wind	WO.	(f)	[(]
COMM55				X_Sferics	_]
COMM56				Z_Sferics	[Z_Sf]
COMM57	577 -		eal (f10.3)	_	_	3.2kHz]
COMM58	587 -		eal (f10.3)			.8kHz]
COMM59			eal (f10.3)	X_VLF3	[X_21	.4kHz]
COMM60			eal (f10.3)	X_VLF4	[X_22	2.2kHz]
COMM61	617 -	626 r	eal (f10.3)	Z_VLF1	[Z_18	3.2kHz]
COMM62	627 -	636 r	eal (f10.3)	Z_VLF2	[Z_19	.8kHz]
COMM63	637 -	646 r	eal (f10.3)	Z_VLF3	[Z_21	.4kHz]
COMM64	647 -	656 r	eal (f10.3)	Z_VLF4	[Z_22	2.2kHz]
COMM65	657 -	666 r	eal (f10.3)	X_Powerline	E [X_Pc	werline]
COMM66	667 -	676 r	eal (f10.3)	Z_Powerline	e [Z_Pc	werline]
COMM67	677 -	686 r	eal (f10.3)	X_Lowfreq	[X_Lc	wfreq]
COMM68	687 -	696 r	eal (f10.3)	Z_Lowfreq	[Z_Lc	wfreq]
COMM	697 -	698 <n< td=""><td>ewline></td><td></td><td></td><td></td><td></td><td></td><td></td></n<>	ewline>						
COMM									
COMM									
COMM 7	Cotal 1	number	of lines :	40					
COMM									
COMM	Flt	Line	Start X	Start Y	End X	End Y	Kms		
COMM									
COMM	9	81090	610947	6424980	613359	6434737	10.05		
COMM	27	89270	581110	6604810	576057	6604802	5.05		
COMM	30	89300	581107	6604792	576096	6604798	5.01		
COMM	9	82090	603637	6438623	601917	6428686	10.08		
COMM	á	83090	606145	6434244	505000	6435175	10 19		

COMM	Total	number	of lines :	40			
COMM							
COMM	Flt	Line	Start X	Start Y	End X	End Y	Kms
COMM							
COMM	9	81090	610947	6424980	613359	6434737	10.05
COMM	27	89270	581110	6604810	576057	6604802	5.05
COMM	30	89300	581107	6604792	576096	6604798	5.01
COMM	9	82090	603637	6438623	601917	6428686	10.08
COMM	9	83090	606145	6434244	595999	6435175	10.19
COMM	16	84162	610604	6429292	603839	6436726	10.05
COMM	26	84260	610635	6429320	603861	6436704	10.02
COMM	1	85010	606913	6454499	616455	6451378	10.04
COMM	16	85161	606881	6454542	616420	6451386	10.05
COMM	1	86010	627548	6444035	627595	6439001	5.03
COMM	8	86081	627602	6443986	627598	6439012	4.97
COMM	12	86120	627598	6438986	627610	6444019	5.03
COMM	16	86160	627596	6444029	627598	6438957	5.07
COMM	17	86170	627598	6444019	627593	6438985	5.03
COMM	18	86180	627590	6443997	627610	6438971	5.03
COMM	19	86190	627597	6444005	627603	6438977	5.03
COMM	23	86230	627592	6444037	627596	6438990	5.05
COMM	27	86270	627614	6444041	627605	6438976	5.07
COMM	31	86310	627596	6444015	627597	6438981	5.03
COMM	34	86340	627592	6443991	627599	6438980	5.01
COMM	37	86370	627594	6444047	627603	6438963	5.08
COMM	40	86400	627612	6444039	627605	6438953	5.09
COMM	41	86410	627606	6444023	627591	6438971	5.05
COMM	48	86480	627595	6444017	627607	6438998	5.02
COMM	51	86511	627549	6444012	627605	6438990	5.02
COMM	55	86550	627604	6444025	627601	6438948	5.08

COMM	57	86570	627602	6444023	627607	6438984	5.04
COMM	61	86610	627601	6444008	627601	6438961	5.05
COMM	65	86650	627602	6444009	627599	6438995	5.01
COMM	71	86710	627600	6444019	627601	6439000	5.02
COMM	76	86760	627602	6443999	627602	6438976	5.02
COMM	2	87020	594022	6519005	588978	6518995	5.04
COMM	3	87030	594030	6518998	588969	6519006	5.06
COMM	4	87040	590312	6518983	593994	6518999	3.68
COMM	7	87070	588980	6518995	594025	6519016	5.05
COMM	10	87100	594056	6518996	588956	6519006	5.10
COMM	32	87320	594010	6519005	588967	6519005	5.04
COMM	36	87361	593993	6519006	588948	6519003	5.05
COMM	20	88200	581095	6570005	576044	6570007	5.05
COMM	22	88220	581121	6570005	576057	6569996	5.06
COMM							

COMM Total Kilometres : 235.52

DUBBO Seismic/Borehole/Repeat Lines – GEOMETRY CORRECTED (LMRAEM Test RptLines HPR.HDR)

COMM INSTALLATION:

(LMR	AEM_Test_RptLines_H	PR.HDR)			
COMM	JOB NUMBER:				1835
	AREA NUMBER:				Seismic/Borehole/Repeat Lines
	SURVEY COMPANY:				Fugro Airborne Surveys
COMM	CLIENT:				BRS
COMM	SURVEY TYPE:				25Hz TEMPEST Survey
COMM	AREA NAME:				Lower Macquarie River AEM
COMM	STATE:				NSW
COMM	COUNTRY:				Australia
COMM	SURVEY FLOWN:				January-April 2007
COMM	LOCATED DATA CREA	ATED:			June 2007
COMM					
COMM	DATUM:				GDA94
COMM	PROJECTION:				MGA
COMM	ZONE:				55
COMM					
	SURVEY SPECIFICAT	TIONS			
COMM					
	TRAVERSE LINE SPA				N/A m
	TRAVERSE LINE DIF				Various deg
	NOMINAL TERRAIN (≝ ∶		115 m
	FINAL LINE KILOME	TRES:			235.5 km
COMM	T TALE MILIMORDIANO				
COMM	LINE NUMBERING				
	TRAVERSE LINE NUN	/DFDC ·			81090 - 88320
COMM	TRAVERSE LINE NON	TDERCS •			01070 00320
	LINE COORDINATES	(CDA94	MC255)		
COMM	DINE COORDINATED	(GDA)1,	MGAJJ)		
	LINE 81??				
	613347 6434698	610966	6424986		
	LINE 82??	010000	0121700		
	601924 6428719	603589	6438579		
	LINE 83??				
COMM	596009 6435176	605968	6434261		
COMM	LINE 84??				
COMM	601654 6434125	610340	6439080		
COMM	LINE 85??				
COMM	606908 6454490	616415	6451390		
	LINE 86??				
	627600 6439000	627600	6444000		
	LINE 87??				
	589001 6519000	594001	6519000		
	LINE 88??	E01100	6550000		
	576100 6570000	581100	6570000		
	LINE 89??	501100	6604000		
	576100 6604800	281100	6604800		
COMM					
COMM	CIIDVEV EOIITDMENT				
COMM	SURVEY EQUIPMENT				
	AIRCRAFT:				Skyvan SC-3-200, VH-WGT
COMM	TITICIAL I •				CASA C212 Turbo Prop, VH-TEM
COMM					CILCI CELE TOLOGI TOP, VII TEN
	MAGNETOMETER:				Scintrex Cs-2 Caesium Vapour
	INSTALLATION:				stinger mount
	RESOLUTION:				0.001 nT
	RECORDING INTERVA	۸T:			0.2 s
COMM					
COMM	ELECTROMAGNETIC S	SYSTEM:			25Hz TEMPEST
COMM	TNICTATIATION.		Пас	. n am i + + o 20	loop mounted on the sixaraft

Transmitter loop mounted on the aircraft

COMM	Receiver coils in a t	owed bird
	M COIL ORIENTATION:	Х, Z
COMM	M RECORDING INTERVAL:	0.2 s
	M SYSTEM GEOMETRY:	44-
	A RECEIVER DISTANCE BEHIND THE TRANSMITTER:	115 m 45 m
COMM	M RECEIVER DISTANCE BELOW THE TRANSMITTER:	45 M
	RADAR ALTIMETER: Sperry RT-	220 (TEM)
	### RADAR ALTIMETER: Collins AL	
COMM	M RECORDING INTERVAL:	0.2 s
COMM		
	# LASER ALTIMETER: Optech 50	• •
	1 LASER ALTIMETER: Regal LD90-330 1 RECORDING INTERVAL:	0.2 s
COMM		0.2 5
	NAVIGATION: real-time differe	ntial GPS
	M RECORDING INTERVAL:	1.0 s
COMM	Л	
COMM	ACQUISITION SYSTEM:	PDAS-1000
COMM		
COMM	1 DATA PROCESSING	
	M MAGNETIC DATA	
	M DIURNAL BASE VALUE APPLIED	56715 nT
COMM	M PARALLAX CORRECTION APPLIED (WGT)	0.4 s
COMM	M PARALLAX CORRECTION APPLIED (TEM)	0.6 s
	M IGRF BASE VALUE APPLIED	56786 nT
	4 IGRF MODEL 2005 EXTRAPOLATED TO	2006.9
COMM	1 1 ELECTROMAGNETIC DATA	
	M SYSTEM PARALLAX REMOVED, AS FOLLOWS	
	4 X-COMPONENT EM DATA	0.2 s
COMM	/ Z-COMPONENT EM DATA	1.4 s
	M DATA CORRECTED FOR TRANSMITTER HEIGHT, PITCH AND ROLL	
	4 DATA CORRECTED FOR TRANSMITTER-RECEIVER GEOMETRY VARIATIONS	
COMM	1 DATA HAVE BEEN MICROLEVELLED	
	M DIGITAL TERRAIN DATA	
	M PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA	0.6 s
COMM	1 PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA	0.0 s
	M DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]	
	1 DATA HAVE BEEN MICROLEVELLED	
	M The accuracy of the elevation calculation is directly depende M the accuracy of the two input parameters, radar altitude and	
	Maltitude. The radar altitude value may be erroneous in areas	
	M tree cover, where the altimeter reflects the distance to the	
COMM	M canopy rather than the ground. The GPS altitude value is pri	marily
	M dependent on the number of available satellites. Although	
	M post-processing of GPS data will yield X and Y accuracies in	
	M order of $1-2$ metres, the accuracy of the altitude value is us M much less, sometimes in the ± 5 metre range. Further inaccura	
	M may be introduced during the interpolation and gridding proce	
	M Because of the inherent inaccuracies of this method, no guara	
	M made or implied that the information displayed is a true	
	I representation of the height above sea level. Although this	product
	M may be of some use as a general reference,	
COMM	1 THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.	
COMM		
	4 ELECTROMAGNETIC SYSTEM	
COMM		
	M TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,	
COMM	M TRANSMITTING AT A BASE FREQUENCY OF 25Hz,	

(fT)]

```
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
COMM WINDOW
                      START
                                       END
                                                      CENTRE
                                0.020
                      0.007
                                                     0.013
COMM
           1
                     0.033 0.047

0.060 0.073

0.087 0.127

0.140 0.207

0.220 0.340

0.353 0.553

0.567 0.873

0.887 1.353

1.367 2.100
                                                      0.040
COMM
           2
           3
COMM
                                                      0.067
           4
COMM
                                                      0.107
           5
                                                      0.173
COMM
           6
                                                      0.280
COMM
           7
                                                      0.453
COMM
          8
                                                     0.720
COMM
COMM 9
                                                     1.120
COMM 10
                                                     1.733
                      1.367
                                     2.100
COMM 11
                      2.113
                                      3.273
                                                      2.693
COMM 12
                      3.287
                                     5.113
                                                     4.200
COMM 13
                      5.127
                                      7.993
                                                      6.560

    5.127
    7.993

    8.007
    12.393

COMM
         14
                                                    10.200
COMM 15
                     12.407
                                    19.993
                                                    16.200
COMM
COMM PULSE WIDTH: 10 ms
COMM
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields : 68
COMM
Field
            Columns Type Format Channel
                                                             Description
        1 -
              4 int (i 4) PROJECT
                                                    [Project Number
                                                                                                             1
               6 int (i 2) AIRCRAFT 10 int (i 4) FLIGHT
                                                       [Aircraft (1-TEM, 2-WGT)
        5 -
                                                                                                             1
        7 - 10
                                    FLIGHT
 3
                                                         [Flight
       11 - 16 int (i 6) LINE
                                                        [Line
 4
                                                                                                             1
     11 - 24 real (f 8.1) FID [FIGURE 125 - 33 int (i 9) DATE [Date 34 - 41 real (f 8.1) TIME [Time 42 - 45 int (i 4) BEARING [Bearing 46 - 58 real (f13.6) LONGITUDE [Longitude GDA94 59 - 71 real (f13.6) LATITUDE [Latitude GDA94 72 - 82 real (f11.2) EASTING [Easting MGA55 83 - 94 real (f12.2) NORTHING [Northing MGA55 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter 102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter 109 - 116 real (f 8.2) TxHeight [DTM [DTM]
                                                                                                       (s)]
                                                                                               ddmmyyyy ]
 7
                                                                                                   (s) ]
 8
                                                                                                     (deg) ]
 9
                                                                                                     (deg) ]
                                                                                                    (deg) ]
10
11
                                                                                                      (m) ]
12
                                                                                                       (m)]
                                                                                                       (m) ]
(m) ]
(m) ]
13
14
15
     16
17
18
19
20
21
23

      187 - 196
      real (f10.3)
      Z_Geofact
      [Z_Geometric factor

      197 - 208
      real (f12.6)
      EMX_Final[1]
      [Final EMX01 Window

      209 - 220
      real (f12.6)
      EMX_Final[2]
      [Final EMX02 Window

      221 - 232
      real (f12.6)
      EMX_Final[3]
      [Final EMX03 Window

24
25
                                                                                                    (fT) ]
26
                                                                                                      (fT) ]
2.7
                                                                                                      (fT) ]
```

233 - 244 real (f12.6) EMX_Final[4] [Final EMX04 Window

28

29	245 - 256	real	(f12.6)	EMX_Final[5]	[Final EMX05 Wind	low (fT)]
30	257 - 268	real	(f12.6)	EMX_Final[6]	[Final EMX06 Wind	low (fT)]
31	269 - 280	real	(f12.6)	EMX_Final[7]	[Final EMX07 Wind	low (fT)]
32	281 - 292	real	(f12.6)	EMX_Final[8]	[Final EMX08 Wind	low (fT)]
33	293 - 304	real	(f12.6)	EMX_Final[9]	[Final EMX09 Wind	low (fT)]
34	305 - 316	real	(f12.6)	EMX_Final[10]	[Final EMX10 Wind	low (fT)]
35	317 - 328	real	(f12.6)	EMX_Final[11]	[Final EMX11 Wind	low (fT)]
36	329 - 340	real	(f12.6)	EMX_Final[12]	[Final EMX12 Wind	low (fT)]
37	341 - 352	real	(f12.6)	EMX_Final[13]	[Final EMX13 Wind	low (fT)]
38	353 - 364	real	(f12.6)	EMX_Final[14]	[Final EMX14 Wind	low (fT)]
39	365 - 376	real	(f12.6)	EMX_Final[15]	[Final EMX15 Wind	low (fT)]
40	377 - 388	real	(f12.6)	EMZ_Final[1]	[Final EMZ01 Wind	low (fT)]
41	389 - 400	real	(f12.6)	EMZ_Final[2]	[Final EMZ02 Wind	low (fT)]
42	401 - 412	real	(f12.6)	EMZ_Final[3]	[Final EMZ03 Wind	low (fT)]
43	413 - 424	real	(f12.6)	EMZ_Final[4]	[Final EMZ04 Wind	low (fT)]
44	425 - 436	real	(f12.6)	EMZ_Final[5]	[Final EMZ05 Wind	low (fT)]
45	437 - 448	real	(f12.6)	EMZ_Final[6]	[Final EMZ06 Wind	low (fT)]
46	449 - 460	real	(f12.6)	EMZ_Final[7]	[Final EMZ07 Wind	low (fT)]
47	461 - 472	real	(f12.6)	EMZ_Final[8]	[Final EMZ08 Wind	low (fT)]
48	473 - 484	real	(f12.6)	EMZ_Final[9]	[Final EMZ09 Wind	low (fT)]
49	485 - 496	real	(f12.6)	EMZ_Final[10]	[Final EMZ10 Wind	low (fT)]
50	497 - 508	real	(f12.6)	EMZ_Final[11]	[Final EMZ11 Wind	low (fT)]
51	509 - 520	real	(f12.6)	EMZ_Final[12]	[Final EMZ12 Wind	low (fT)]
52	521 - 532	real	(f12.6)	EMZ_Final[13]	[Final EMZ13 Wind	low (fT)]
53	533 - 544	real	(f12.6)	EMZ_Final[14]	[Final EMZ14 Wind	low (fT)]
54	545 - 556	real	(f12.6)	EMZ_Final[15]	[Final EMZ15 Wind	low (fT)]
55	557 - 566	real	(f10.3)	X_Sferics	[X_Sferics]
56	567 - 576	real	(f10.3)	Z_Sferics	[Z_Sferics]
57	577 - 586	real	(f10.3)	X_VLF1	[X_18.2kHz]
58	587 - 596	real	(f10.3)	X_VLF2	[X_19.8kHz]
59	597 - 606	real	(f10.3)	X_VLF3	[X_21.4kHz]
60	607 - 616	real	(f10.3)	X_VLF4	[X_22.2kHz]
61	617 - 626	real	(f10.3)	Z_VLF1	[Z_18.2kHz]
62	627 - 636		(f10.3)		[Z_19.8kHz]
63	637 - 646			Z_VLF3	[Z_21.4kHz]
64	647 - 656	real	(f10.3)	Z_VLF4	[Z_22.2kHz]
65	657 - 666	real	(f10.3)	X_Powerline	[X_Powerline]
66	667 - 676			Z_Powerline	[Z_Powerline]
67	677 - 686	real	(f10.3)	X Lowfreg	[X Lowfreg]
68	687 - 696	real	(f10.3)	Z_Lowfreq	[Z_Lowfreq]
	697 - 698	<newli< td=""><td>ne></td><td></td><td></td><td></td><td></td><td></td></newli<>	ne>					
COMM	Ī							

COMM ___ COMM

COMM Total number of lines: 40

COMM

COMM Total Kilometres : 235.52

DUBBO Seismic/Borehole/Repeat Lines - Conductivity data

COMM JOB NUMBER: 1835 COMM AREA NUMBER: Seismic/Borehole/Repeat Lines COMM SURVEY COMPANY: Fugro Airborne Surveys COMM CLIENT: 25Hz TEMPEST Survey COMM SURVEY TYPE: COMM AREA NAME: Lower Macquarie River AEM COMM STATE: COMM COUNTRY: Australia January-April 2007 COMM SURVEY FLOWN: COMM LOCATED DATA CREATED: June 2007 COMM COMM DATUM: GDA94 COMM PROJECTION: MGA COMM ZONE: 55 COMM COMM SURVEY SPECIFICATIONS COMM COMM TRAVERSE LINE SPACING: N/A m COMM TRAVERSE LINE DIRECTION: Various deg COMM NOMINAL TERRAIN CLEARANCE: 115 m COMM FINAL LINE KILOMETRES: 235.5 km COMM COMM LINE NUMBERING COMM COMM TRAVERSE LINE NUMBERS: 81090 - 88320 COMM LINE COORDINATES (GDA94, MGA55) COMM COMM LINE 81?? COMM 613347 6434698 610966 6424986 COMM LINE 82?? COMM 601924 6428719 603589 6438579 COMM LINE 83?? COMM 596009 6435176 605968 6434261 COMM LINE 84?? COMM 601654 6434125 610340 6439080 COMM LINE 85?? COMM 606908 6454490 616415 6451390 COMM LINE 86?? COMM 627600 6439000 627600 6444000 COMM LINE 87?? COMM 589001 6519000 594001 6519000 COMM LINE 88?? COMM 576100 6570000 581100 6570000 COMM LINE 89?? COMM 576100 6604800 581100 6604800 COMM COMM COMM SURVEY EQUIPMENT COMM Skyvan SC-3-200, VH-WGT COMM AIRCRAFT: COMM CASA C212 Turbo Prop, VH-TEM COMM COMM MAGNETOMETER: Scintrex Cs-2 Caesium Vapour COMM INSTALLATION: stinger mount 0.001 nT COMM RESOLUTION: 0.2 s COMM RECORDING INTERVAL: COMM 25Hz TEMPEST COMM ELECTROMAGNETIC SYSTEM: COMM INSTALLATION: Transmitter loop mounted on the aircraft COMM Receiver coils in a towed bird COMM COIL ORIENTATION: X,Z

```
COMM RECORDING INTERVAL:
                                                                     0.2 s
COMM SYSTEM GEOMETRY:
COMM RECEIVER DISTANCE BEHIND THE TRANSMITTER:
                                                                     115 m
COMM RECEIVER DISTANCE BELOW THE TRANSMITTER:
                                                                      45 m
COMM
COMM RADAR ALTIMETER:
                                                       Sperry RT-220 (TEM)
COMM RADAR ALTIMETER:
                                                       Collins ALT55 (WGT)
COMM RECORDING INTERVAL:
                                                                     0.2 s
COMM
COMM LASER ALTIMETER:
                                                        Optech 501SB (TEM)
                                                   Regal LD90-3300HR (WGT)
COMM LASER ALTIMETER:
COMM RECORDING INTERVAL:
                                                                     0.2 \, \mathrm{s}
COMM
                                                real-time differential GPS
COMM NAVIGATION:
COMM RECORDING INTERVAL:
                                                                     1.0 s
COMM ACQUISITION SYSTEM:
                                                                 PDAS-1000
COMM
COMM DATA PROCESSING
COMM
COMM MAGNETIC DATA
COMM DIURNAL BASE VALUE APPLIED
                                                                  56715 nT
COMM PARALLAX CORRECTION APPLIED (WGT)
                                                                     0.4 s
COMM PARALLAX CORRECTION APPLIED (TEM)
                                                                     0.6 s
COMM IGRF BASE VALUE APPLIED
                                                                  56786 nT
COMM IGRF MODEL 2005 EXTRAPOLATED TO
                                                                    2006.9
COMM ELECTROMAGNETIC DATA
COMM SYSTEM PARALLAX REMOVED, AS FOLLOWS
COMM X-COMPONENT EM DATA
                                                                     0.2 \, \mathrm{s}
COMM Z-COMPONENT EM DATA
                                                                     1.4 s
COMM DATA CORRECTED FOR TRANSMITTER HEIGHT, PITCH AND ROLL
COMM DATA CORRECTED FOR TRANSMITTER-RECEIVER GEOMETRY VARIATIONS
COMM DATA HAVE BEEN MICROLEVELLED
COMM CONDUCTIVITY DEPTH INVERSION CALCULATED
                                                              EMFlow V5.10
COMM CONDUCTIVITIES CALCULATED USING corrected EM DATA
COMM
COMM DIGITAL TERRAIN DATA
COMM PARALLAX CORRECTION APPLIED TO RADAR ALIMETER DATA
                                                                     0.6 s
COMM PARALLAX CORRECTION APPLIED TO GPS ALIMETER DATA
                                                                     0.0 s
COMM DTM CALCULATED [DTM = GPS ALTITUDE - RADAR ALTITUDE]
COMM DATA HAVE BEEN MICROLEVELLED
COMM -----
COMM The accuracy of the elevation calculation is directly dependent on
COMM the accuracy of the two input parameters, radar altitude and GPS
COMM altitude. The radar altitude value may be erroneous in areas of heavy
COMM tree cover, where the altimeter reflects the distance to the tree
COMM canopy rather than the ground. The GPS altitude value is primarily
COMM dependent on the number of available satellites. Although
COMM post-processing of GPS data will yield X and Y accuracies in the
COMM order of 1-2 metres, the accuracy of the altitude value is usually
COMM much less, sometimes in the ±5 metre range. Further inaccuracies
COMM may be introduced during the interpolation and gridding process.
COMM Because of the inherent inaccuracies of this method, no quarantee is
COMM made or implied that the information displayed is a true
COMM representation of the height above sea level. Although this product
COMM may be of some use as a general reference,
COMM THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.
COMM
COMM ELECTROMAGNETIC SYSTEM
COMM TEMPEST IS A TIME-DOMAIN SQUARE-WAVE SYSTEM,
COMM TRANSMITTING AT A BASE FREQUENCY OF 25Hz,
```

```
COMM WITH 2 ORTHOGONAL-AXIS RECEIVER COILS IN A TOWED BIRD.
COMM FINAL EM OUTPUT IS RECORDED 5 TIMES PER SECOND.
COMM THE TIMES (IN MILLISECONDS) FOR THE 15 WINDOWS ARE:
COMM
COMM WINDOW
                                 END
                   START
                                             CENTRE
                   0.007
                                0.020
COMM
         1
                                             0.013
                   0.033
                               0.047
COMM
         2
                                              0.040
                               0.073
         3
                   0.060
COMM
                                              0.067
                               0.127
COMM
         4
                   0.087
                                              0.107
                              0.207
0.340
0.553
         5
                   0.140
                                             0.173
COMM
         6
                   0.220
                                             0.280
COMM
         7
                   0.353
                                             0.453
COMM
         8
                   0.567
                               0.873
                                             0.720
COMM
        9
                               1.353
COMM
                   0.887
                                             1.120
        10
COMM
                  1.367
                               2.100
                                             1.733
COMM
        11
                   2.113
                                3.273
                                             2.693
COMM
        12
                   3.287
                               5.113
                                             4.200
COMM
        13
                   5.127
                                7.993
                                             6.560
COMM
        14
                   8.007
                              12.393
                                             10.200
      15
                  12.407
                              19.993
                                            16.200
COMM
COMM
COMM PULSE WIDTH: 10 ms
COMM
COMM TEMPEST EM data are transformed to the response that would be
COMM obtained with a B-field sensor for a 100% duty cycle square
COMM waveform at the base frequency, involving a 1A change in
COMM current (from -0.5A to +0.5A to -0.5A) in a lsq.m transmitter.
COMM It is this configuration, rather than the actual acquisition
COMM configuration, which must be specified when modelling TEMPEST data.
COMM
COMM
COMM
COMM
COMM Output field format : DOS - Flat ascii
COMM Number of fields : 127
COMM
               Columns Type Format Channel
COMM Field
                                                             Description
COMM
                                               [Project Number
COMM 1
           1 –
                 4 int (i 4) PROJECT
                                                                                           1
           5 - 6 int (i 2) AIRCRAFT
7 - 10 int (i 4) FLIGHT
                                                [Aircraft (1-TEM, 2-WGT)
     2
COMM
                                                                                           1
      3
                                                 [Flight
COMM
          11 - 16 int (i 6) LINE
                                                [Line
     4
COMM
                                                                                           1
          17 - 24 real (f 8.1) FID
COMM 5
                                                [Fiducial
                                                                                      (s)]
          25 - 33 int (1 9) DATE

34 - 41 real (f 8.1) TIME [Time

42 - 45 int (i 4) BEARING [Bearing

46 - 58 real (f13.6) LONGITUDE [Longitude GDA94]

T1 roal (f13.6) LATITUDE [Latitude GDA94]
COMM 6
           25 - 33 int (i 9) DATE
                                                [Date
                                                                                 ddmmyyyy ]
     7
COMM
                                                                                      (s)]
COMM
      8
                                                                                    (deg) ]
COMM 9
                                                                                     (deg) ]
                                                                                   (deg) ]
COMM 10
COMM 11
          72 - 82 real (f11.2) EASTING
                                                [Easting MGA55
                                                                                     (m)]
COMM 12
         83 - 94 real (f12.2) NORTHING
                                                [Northing MGA55
                                                                                      (m) ]
COMM 13 95 - 101 real (f 7.2) Lasalt_final [Final Laser Altimeter COMM 14 102 - 108 real (f 7.2) Radalt_final [Final Radar Altimeter COMM 15 109 - 116 real (f 8.2) TxHeight [Transmitter GPS height]
                                                                                      (m)]
                                                                                      (m)
                                                                                      (m)]
COMM 16 117 - 124 real (f 8.2) DTM
                                                [DTM
                                                                                      (m)]
COMM 17 125 - 134 real (f10.3) MAG
                                                [Compensated TMI
                                                                                     (nT) ]
                                                                     0-5 m
COMM 18 135 - 144 real (f10.3) CND[1]

COMM 19 145 - 154 real (f10.3) CND[2]

COMM 20 155 - 164 real (f10.3) CND[3]
                                             [Conductivity_001
[Conductivity_002
[Conductivity_003
                                                                                   (mS/m) ]
                                                [Conductivity_002 5-10 m
[Conductivity_003 10-15 m
                                                                                    (mS/m)
                                                                                    (mS/m)]
                                               [Conductivity_004 15-20 m
COMM 21 165 - 174 real (f10.3) CND[4]
                                                                                    (mS/m)]
COMM 22 175 - 184 real (f10.3) CND[5]
                                               [Conductivity_005 20-25 m
COMM 23 185 - 194 real (f10.3) CND[6]
                                                [Conductivity_006 25-30 m
                                                                                    (mS/m) ]
COMM 24 195 - 204 real (f10.3) CND[7]
COMM 25 205 - 214 real (f10.3) CND[8]
COMM 26 215 - 224 real (f10.3) CND[9]
                                                 [Conductivity_007 30-35 m
[Conductivity_008 35-40 m
                                                [Conductivity_007
                                                                                    (mS/m)]
                                                                                    (mS/m)
                                                [Conductivity_009 40-45 m
                                                                                    (mS/m) ]
COMM 27 225 - 234 real (f10.3) CND[10]
                                                [Conductivity_010 45-50 m
                                                                                    (mS/m)]
COMM 28 235 - 244 real (f10.3) CND[11]
                                                [Conductivity_011 50-55 m
                                                                                    (mS/m)
COMM 29 245 - 254 real (f10.3) CND[11]
```

[Conductivity_012 55-60 m

(mS/m)]

```
255 - 264 real (f10.3) CND[13]
265 - 274 real (f10.3) CND[14]
                                                         [Conductivity_013
                                                                                  60-65 m
COMM 30
                                                                                                 (mS/m)]
                                                                                  65-70 m
COMM 31
                                                         [Conductivity_014
                                                                                                 (mS/m)
          275 - 284 real (f10.3) CND[15]
                                                                                  70-75 m
COMM 32
                                                        [Conductivity_015
                                                                                                 (mS/m)]
          285 - 294 real (f10.3) CND[16]
                                                        [Conductivity_016 75-80 m
COMM 33
                                                                                                 (mS/m) 1
           295 - 304 real (f10.3) CND[17]
                                                                                80-85 m
COMM 34
                                                        [Conductivity_017
                                                                                                 (mS/m)
           305 - 314 real (f10.3) CND[18]
315 - 324 real (f10.3) CND[19]
325 - 334 real (f10.3) CND[20]
COMM 35
                                                         [Conductivity_018
                                                                                  85-90 m
                                                                                                 (mS/m)]
COMM 36
                                                         [Conductivity_019
                                                                                  90-95 m
                                                                                                 (mS/m)
                                                                                 95-100 m
                                                                                                 (mS/m)
COMM 37
                                                         [Conductivity_020
          335 - 344 real (f10.3) CND[21]
COMM 38
                                                        [Conductivity_021
                                                                                 100-105 m
                                                                                                 (mS/m)]
COMM 39
           345 - 354 real (f10.3) CND[22]
                                                        [Conductivity_022
                                                                                 105-110 m
                                                                                                 (mS/m)
           355 - 364 real (f10.3) CND[23]
365 - 374 real (f10.3) CND[24]
375 - 384 real (f10.3) CND[25]
COMM 40
                                                        [Conductivity_023
                                                                                  110-115 m
                                                                                                 (mS/m)]
                                                         [Conductivity_024
                                                                                  115-120 m
COMM 41
                                                                                                 (mS/m)
                                                                                  120-125 m
COMM 42
                                                         [Conductivity_025
                                                                                                 (mS/m)
           385 - 394 real (f10.3) CND[26]
COMM 43
                                                        [Conductivity_026
                                                                                 125-130 m
                                                                                                 (mS/m) 1
COMM 44
          395 - 404 real (f10.3) CND[27]
                                                        [Conductivity_027
                                                                                 130-135 m
                                                                                                 (mS/m)
          405 - 414 real (f10.3) CND[28]
415 - 424 real (f10.3) CND[29]
425 - 434 real (f10.3) CND[30]
435 - 444 real (f10.3) CND[31]
                                                        [Conductivity_028
                                                                                 135-140 m
COMM 45
                                                                                                 (mS/m)]
COMM 46
                                                        [Conductivity_029
                                                                                  140-145 m
                                                                                                 (mS/m)]
                                                                                  145-150 m
COMM 47
                                                         [Conductivity_030
                                                                                                 (mS/m)
COMM 48
                                                        [Conductivity_031
                                                                                 150-155 m
                                                                                                 (mS/m) ]
COMM 49
          445 - 454 real (f10.3) CND[32]
                                                        [Conductivity_032
                                                                                 155-160 m
                                                                                                 (mS/m)]
          455 - 464 real (f10.3) CND[33]
COMM 50
                                                        [Conductivity_033
                                                                                 160-165 m
                                                                                                 (mS/m)
          465 - 474 real (f10.3) CND[34]
475 - 484 real (f10.3) CND[35]
485 - 494 real (f10.3) CND[36]
COMM 51
                                                        [Conductivity_034
                                                                                 165-170 m
                                                                                                 (mS/m)]
                                                        [Conductivity_035
                                                                                  170-175 m
COMM 52
                                                                                                 (mS/m)
                                                                                  175-180 m
COMM 53
                                                        [Conductivity_036
                                                                                                 (mS/m) 1
          495 - 504 real (f10.3) CND[37]
COMM 54
                                                        [Conductivity_037
                                                                                 180-185 m
                                                                                                 (mS/m)
COMM 55 505 - 514 real (f10.3) CND[38]
                                                        [Conductivity_038
                                                                                 185-190 m
                                                                                                 (mS/m)]
COMM 56 515 - 524 real (f10.3) CND[39] [Conductivity_039 190-195 m COMM 57 525 - 534 real (f10.3) CND[40] [Conductivity_040 195-200 m COMM118 1135 -1144 real (f10.3) INT_CND_0_5 [Interval Conductivity 0-5m]
                                                                                                 (mS/m) 1
                                                                                                 (mS/m)
                                                                                                 (mS/m)]
COMM119 1145 -1154 real (f10.3) INT_CND_5_10 [Interval Conductivity 5-10m (mS/m)]
COMM120 1155 -1164 real (f10.3) INT_CND_10_15[Interval Conductivity 10-15m (mS/m)]
\texttt{COMM121 1165 -1174 real (f10.3) INT\_CND\_15\_20[Interval Conductivity 15-20m (mS/m)]}
COMM122 1175 -1184 real (f10.3) INT_CND_20_30[Interval Conductivity 20-30m (mS/m)]
COMM123 1185 -1194 real (f10.3) INT_CND_30_40[Interval Conductivity 30-40m (mS/m)]
COMM124 1195 -1204 real (f10.3) INT_CND_40_60[Interval Conductivity 40-60m (mS/m)]
COMM125 1205 -1214 real (f10.3) INT_CND_60_10[Interval Conductivity 60-100m (mS/m)]
\texttt{COMM126 1215 -1224} \quad \texttt{real (f10.3) INT\_CND\_100\_150[Interval Conductivity 100-150m (mS/m)]}
COMM127 1225 -1234 real (f10.3) INT_CND_150_200[Interval Conductivity 150-200m (mS/m)]
          1235 -1236 <newline>
COMM
COMM
```

COMM

COMM Total number of lines : 40

COMM

COMM Total Kilometres : 235.52

APPENDIX VI – Standby Days

1

1

1

1

1

1

2

13-Feb

28-Feb

5-Mar

6-Mar

7-Mar

8-Mar

16-Mar

Aircraft:	VH-TEM			
Date	Days	Description	Kms Flown	
26-Feb	1	Rain, High winds	0	
27-Feb	1	Rain, High winds	0	
28-Feb	1	Lightning Storms	0	
Date	Days	Description	Kms Flown	
31-Jan	1	Spherics	0	
1-Feb	1	High Winds	0	
2-Feb	0.5	High Winds	159	
5-Feb	1	High Winds	0	
12-Feb	1	High Winds, Spherics	0	

High Winds

Lightning Storms

Rain, Storms

Bad Weather

Rain, Low Cloud

Storms/Turbulence

Warren Open Day

0

0

0

0

0

0

0

APPENDIX VII – List of all Supplied Data and Products

Final Located Data

Area S1:

LMRAEM_S1_HPR LMRAEM_S1_NON-HPR LMRAEM_S1_Cond

Areas N1-3/L1-6:

LMRAEM_N1-3_HPR LMRAEM_N1-3_NON-HPR LMRAEM_N1-3_Cond

Seismic, borehole and repeat lines:

LMRAEM_Test_RptLines_HPR LMRAEM_Test_RptLines_NON-HPR LMRAEM_Test_RptLines_Cond

For each filename above, there are 3 files. Extension '.asc' is the data, '.hdr' is a header describing the data format and survey specifications and '.i4' is a geosoft import template. For all files, some changes to field format were required – these are shown in the '.hdr' files.

For each of the suffixes HPR, NON-HPR and Cond, the contents are as follows:

NON-HPR - data without geometry correction as defined in Attachment 2, section 3.3.2 of the

contract.

HPR – data with geometry correction as defined in Attachment 2, section 3.3.3 of the

contract.

Cond – Conductivity-depth data as defined in Attachment 2, section 3.3.4 of the contract.

Final Gridded Products (delivered in ERMapper format GDA94 MGA55)

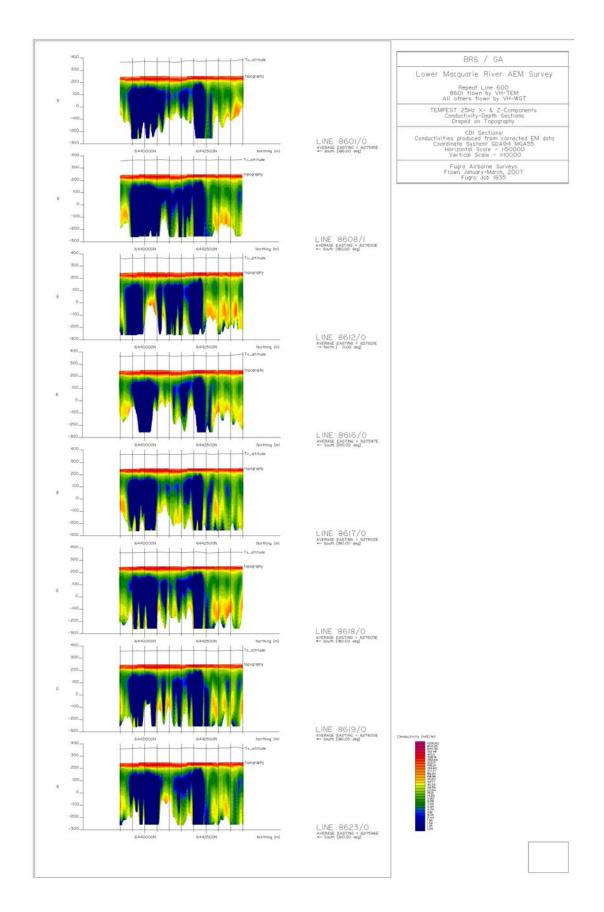
- Total Magnetic Intensity
- Digital Elevation Model
- Interval Conductivity grids for these depth ranges:
 - 0-5 metres
 - 5-10 metres
 - 10-15 metres
 - 15-20 metres
 - 20-30 metres
 - 30-40 metres
 - 40-60 metres
 - 60-100 metres100-150 metres
 - 150-200 metres

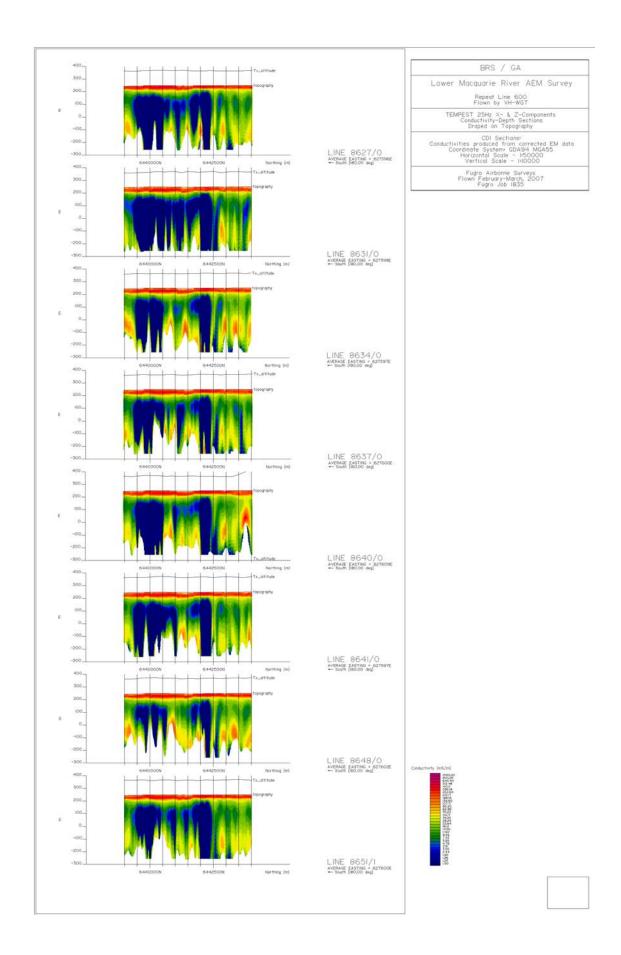
Final Acquisition and Processing Report

Delivered as hardcopy and digitally (6 copies)

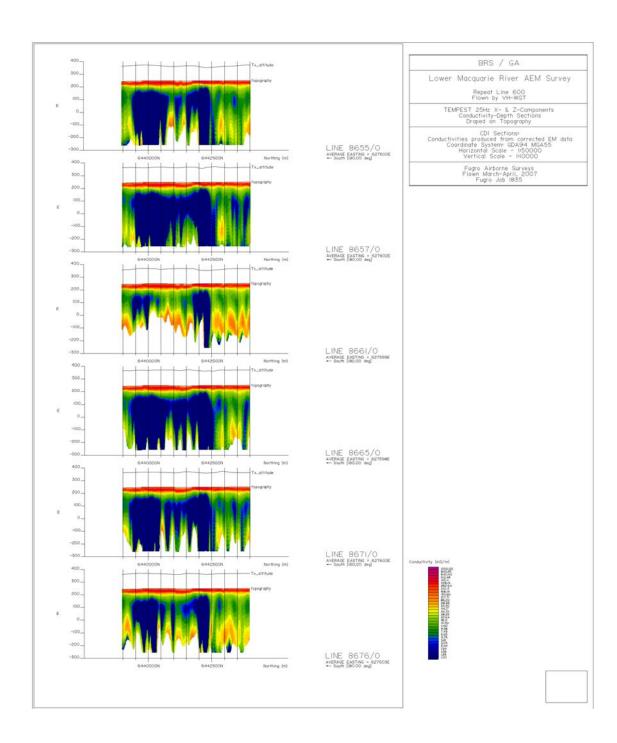
APPENDIX VIII – EM Repeat line and Seismic / Borehole line CDIs

Repeat Line 600 - 8601 flown by VH-TEM, All others flown by VH-WGT

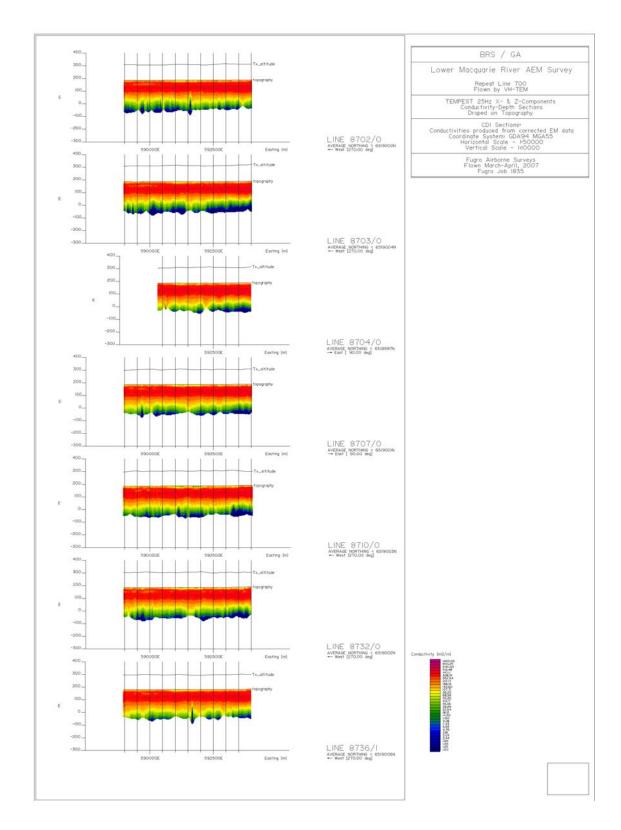




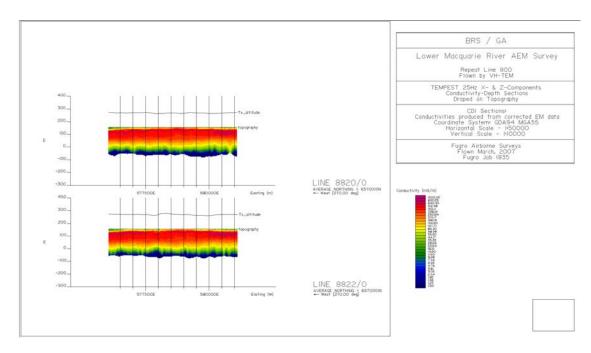
155



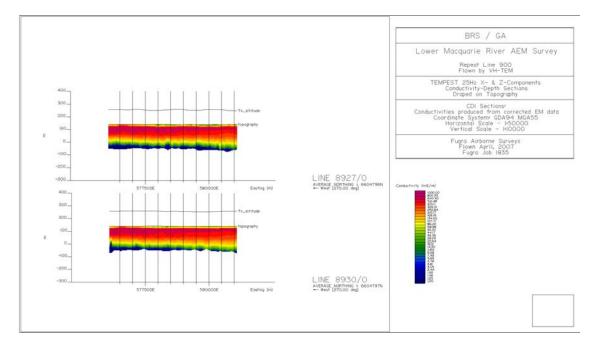
Repeat Line 700 - All flown by VH-TEM



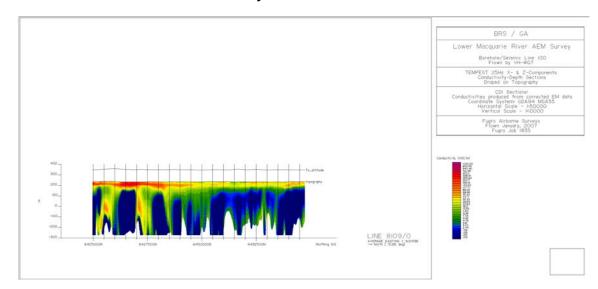
Repeat Line 800 - All flown by VH-TEM



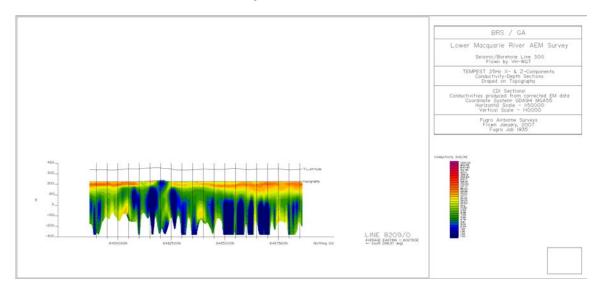
Repeat Line 900 - All flown by VH-TEM



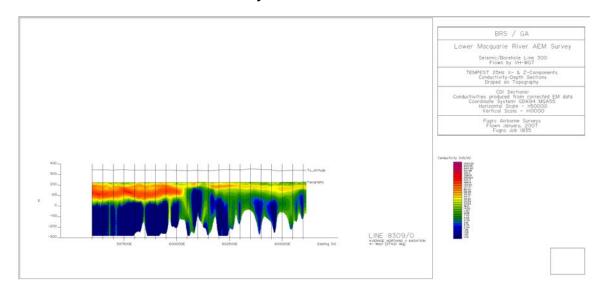
Seismic / Borehole Line 100 - Flown by VH-WGT



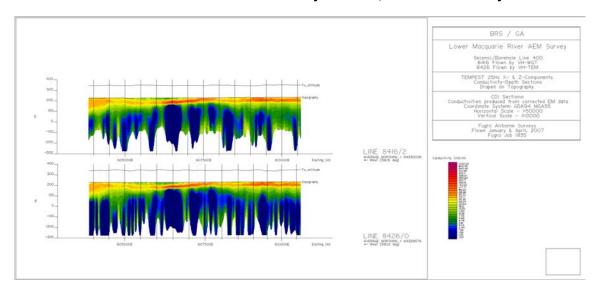
Seismic / Borehole Line 200 - Flown by VH-WGT



Seismic / Borehole Line 300 - Flown by VH-WGT



Seismic / Borehole Line 400 - Line 8416 flown by VH-WGT, Line 8426 flown by VH-TEM



Seismic / Borehole Line 500 - Line 8501 flown by VH-TEM, Line 8516 flown by VH-WGT

