

Operations and Processing Report

ON THE WESTERN TASMANIAN REGIONAL MINERALS PROGRAM HELICOPTER ELECTROMAGNETIC SURVEY

November 2000 – April 2002

**Department of Infrastructure, Energy and Resources
10 Murray Street
Hobart Tasmania 7000**

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1. INTRODUCTION

This report describes the operations for the Western Tasmanian helicopter geophysical survey conducted in western and northwestern Tasmania, by Geo Instruments Pty Ltd under contract to the Tasmanian Department of Infrastructure, Energy and Resources (DIER) between 5th November 2000 and 19th April 2002.

The survey was designed and implemented by the Tasmanian DIER as part of the Western Tasmanian Regional Minerals Program (the WTRMP) in the western and northwestern parts of Tasmania. The survey covers an area where prospective rocks fall within granite aureoles and over the Mt Read Volcanic Belt.

Survey coverage was over 4 areas, Dolcoath, Meredith, Mt Read and Balfour all with a line spacing of 200 meters and a 30 metre bird height. Line direction was east - west for all areas except Dolcoath which was oriented north-south.

The survey collected a total of 15,600 line kilometres of electromagnetic, magnetic and elevation data in 136 sorties of survey operations. The results of the geophysical survey are presented as laminated colour images of apparent resistivity for three coplanar coil frequencies, a laminated ternary image of apparent resistivity, plus digital grids of the resistivity parameters and of the magnetics and digital terrain model, plus multi-parameter profiles of each survey line.

2. SURVEY SPECIFICATIONS

The survey comprises airborne geophysical mapping over portion of the western and northwestern area of Tasmania. Data acquisition totalled 15,600 line kilometres of airborne electromagnetic, magnetic and elevation data.

2.1 LINE SPECIFICATIONS

Dolcoath

Traverse Line Direction	000°-180°
Traverse Line Spacing	200 metres
Tie Line Direction	090°-270°
Tie Line Spacing	2000 metres
Survey height	EM towed bird at 30m agl

Meredith, Mt Read and Balfour

Traverse Line Direction	090°-270°
Traverse Line Spacing	200 metres
Tie Line Direction	000°-180°
Tie Line Spacing	2000 metres
Survey height	EM towed bird at 30m agl

2.2 INSTRUMENTAL SPECIFICATIONS

Electromagnetic	
Sampling Interval	0.1 second
Sensitivity	1 ppm
Coaxial Coil Frequencies	980 and 7000 Hz
Coplanar Coil Frequencies	880, 6600 and 34000 Hz

Magnetics	
Sampling Interval	0.1 second
Total Noise	< 0.05 nT

Base Station Magnetometer	
Sampling Interval	1 second
Noise Level	< 0.2 nT
Resolution	Better than or equal to 0.1 nT

Radar Altimeter	Output 13.1mV/m
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2.3 FLYING SPECIFICATIONS

Electromagnetic and Magnetometer Sensor	
Nominal Terrain Clearance	30 metres (30 metre bird cable)
Flying Speed	40 m/second

3. SURVEY OPERATIONS

3.1 SURVEY BASES

The survey entailed four blocks referred to as Dolcoath (Area A), Meredith (Area B), Mt Read (Area D) and Balfour (Area E) each with a test survey line (as presented in Appendix 1). Each area had a base for the program, namely, Sheffield, Cradle Mountain, Zeehan and Redpa. The helicopter survey equipment and party chief travelled to Zeehan on the 17th January 2001. Bird assembly and testing commenced the next day. Flying commenced on the Mt. Read area on the 31st January. Flying then continued from Zeehan until the 8th Feb 2001 until the 13th February when the boom became detached from the helicopter during Flight 13. The resultant damage sustained by the boom rendered it unserviceable pending a lengthy repair. As the operational part of the flying season was soon to expire, it was decided in conjunction with the representatives of the Tasmanian DIER that the continuation would be scheduled for the latter part of the year.

Remobilisation was commenced to Sheffield on 6th November 2001. The Hummingbird system was assembled and fully tested on 7th November 2001. The helicopter arrived at Sheffield on 8th November and installation and testing were completed on the following day. The entire survey crew and helicopter travelled to Sheffield on 9th November, and the base GPS and magnetometer stations established.

Surveying of the Dolcoath Block commenced on the 11th November and on completion the crew and equipment repositioned to Cradle Mountain in order to commence work on the Meredith area.

Two incidents occurred during the duration of the survey that contributed to the lengthy completion date. The first was described above and during the second incident, the boom was damaged when it impacted a tree during a survey flight on the 7th December 2001. Though the damage was not severe and a local repair effected, subsequent experience showed that a replacement boom was required.

During the Christmas stand-down, New South Wales experienced an extremely severe bushfire season that demanded the services of the helicopter that was being used for the survey. The replacement boom arrived and was deployed in Zeehan on 20th March 2002.

Other problems included very poor weather conditions causing the survey to be halted for a period of nine months. The survey concluded on 20th April 2002. The final report on the survey program is included in Appendix 3. Logs for each flight are presented in Appendix 4. The quality control (QC) and field data processing were carried out at each of the base locations. The helicopter was always parked at the same location at the base to ensure consistency in ground calibrations.

3.2 FLIGHT PLANNING

Flight planning for each of the areas and the ground geophysical test area (Appendix 1) were planned out in separate blocks for each area. Maps of the proposed flight

lines and tie lines were reviewed with the client prior to commencement of flying. The presence of minor culture in the survey areas was considered in the overall survey design. The survey area is located in UTM Zone 55.

3.3 FLIGHT PATH CONTROL

An Ashtech G12 receiver integrated with an Omnistar Model LR3000 virtual base station was used for navigation. This unit is capable of tracking and receiving up to 12 GPS satellites simultaneously and deriving positions from the satellites in view. The accuracy is better than 5m rms using differential GPS post processing. Positions are generated at 0.2 second intervals for the pilot indicator and are recorded at 0.5 second intervals.

The GPS antenna was mounted approximately one metre behind the cesium vapour magnetometer sensor on the boom.

A real time differential solution was obtained through the use of the Fugro "Omnistar" virtual base station differential GPS service. Corrections are transmitted via a geo-stationary satellite to the helicopter navigation and position displays

The positional data are used to calculate the flight path guidance information which is presented to the pilot on both digital and analogue displays mounted in direct view. The radar altimeter display is mounted in close proximity to the guidance displays for easy cross reference.

Navigation data recorded at a GPS base site at 1 second intervals were used to differentially correct the aircraft's positional data.

3.4 SURVEY PLATFORM

Helicopter: Aerospatiale AS350BA "Squirrel" Helicopter
Registration: VH-RTV
Contracted From: Heli-Aust Pty Ltd of Bankstown
Endurance: 3.5 hours fully loaded
Survey Speed: 40 m/sec

3.5 WEATHER DETAILS

The weather throughout the survey period was influenced by very poor conditions. Consistent rain, sleet, snow and even hail hampered survey production. The program was halted from February to November of 2001 due to poor weather.

3.6 SAFETY MANAGEMENT

There were no aviation incidents during the implementation of the airborne survey

for the aircraft utilised on the project. Formal safety meetings were minuted regularly to discuss safety management, however safety issues were discussed every morning during pre-flight preparation.

Safety procedures included pilot duty time monitoring and adherence to daily and scheduled maintenance of the helicopter. Daily flight planning meetings and mobile telephone communication with the survey base on completion of each flight line served to predict the position of the helicopter at all times.

3.7 ENVIRONMENTAL MANAGEMENT

The aircraft operations are non-polluting except for noise associated with take-off and landing. All operations were conducted during normal day time and no complaints were received regarding noise. Extreme care was maintained during all refuelling operations to eliminate the risk of fuel spillage or fire.

Ground operations are minor, usually focused around the survey bases. Common sense rules apply to these tasks with particular reference to public facilities, residential areas, stock yards, access paths, etc. Any staff member responsible for damaging property or land is liable for dismissal.

4. PERSONNEL

Survey management and geophysical personnel were provided by Geo Instruments Pty Ltd, Sydney. The helicopter pilot was provided by Heli-Aust Pty Ltd. In field quality control was undertaken at the Kentish Hills Retreat, Sheffield, the Cradle Mountain Wilderness Village, Cradle Mountain, the Heemskirk Motor Hotel, Zeehan and The Marrawah B&B at Redpa. Final data processing and map production were undertaken by Geo Instruments Pty Ltd in Sydney and Fugro Airborne Surveys in Perth.

Field Operations

Field Project Manager:	Zoltan Beldi
Pilot:	Tony Feller, Sam Borg, Hamish Robertson, Jim Ladd
Technician:	Pat Healy, Rob Reid
Field Processor:	Anton Rada

Data Processing

Data Supervisor:	Anton Rada
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Client Representatives

Field Operations:	James Reid
Data Processing:	Bob Richardson

5. GEOPHYSICAL EQUIPMENT

5.1 ELECTROMAGNETIC SYSTEM

The electromagnetic system is the Geotech Hummingbird 5-frequency system. It consists of two vertical coaxial coil pairs operating at 980 Hz and 7000 Hz and three horizontal coplanar coil pairs operating at 880 Hz, 6600 Hz, and 34000 Hz housed in a 6.5m long bird together with the magnetometer sensor. The transmitter-receiver separation and the dipole moment for each coil pair is given below:

For birds 1 & 2 – prior to Julian day 67, 2002, flight 93

Frequency	Coil Separation	Dipole Moment
880 Hertz	6.01 metres	200 NIA
980 Hertz	6.01 metres	200 NIA
6,600 Hertz	6.26 metres	150 NIA
7,000 Hertz	6.26 metres	150 NIA
34,000 Hertz	4.93 metres	40 NIA

For bird 3 – after Julian day 67, 2002, flight 94

Frequency	Coil Separation	Dipole Moment
880 Hertz	6.03 metres	200 NIA
980 Hertz	6.03 metres	200 NIA
6,600 Hertz	6.25 metres	150 NIA
7,000 Hertz	6.25 metres	150 NIA
34,000 Hertz	4.79 metres	40 NIA

The receiver coil responses are converted into their in-phase and out-of-phase (quadrature) components by processors installed in the bird, and then transmitted as digital data by a serial cable to the Geotech processor console in the aircraft. This console retains the calibration coefficients to convert the digital data representing voltages to parts per million. These data are transmitted to the Geo Instruments data acquisition system at 1 second intervals.

The EM system is mounted in a lightweight Kevlar boom which is towed 30 metres below the helicopter. Measurements of the in-phase and out-of-phase signals for each frequency are recorded at the rate of 10 times per second, with a sensitivity of one millionth of the primary field (1 part per million).

5.2 MAGNETOMETER

The Geometrics G822A Magnetometer is a highly sensitive unit incorporating an optically pumped sensor. The constant harmonic frequency from the sensor is proportional to the surrounding scalar magnetic field. This frequency is resolved by the Counter/ Processor which provides the magnetic field to a nominal accuracy of 0.01nT at 10 times per second both in analogue and digital forms.

The sensor and pre-amplifier are mounted in the EM boom, which is attached by approximately 30 metres of cable to the helicopter. Magnetic data are recorded in duplicate, once in the Geo Instruments files and also in the Hummingbird EM files.

The sensor is positioned well out of the magnetic field of the helicopter, whatever the type of helicopter. Therefore the magnetic data requires no compensation for the varying magnetic field associated with manoeuvres of the aircraft in the Earth's magnetic field, such as required for boom-mounted magnetic sensors.

5.3 ALTIMETER

A Collins Alt-50 radar altimeter system was installed in the helicopter. This controls the pilot's analogue indicator, which provides a terrain clearance display from 0 to 750 metres (0 to 2,500 ft.) above ground level. This is the primary tool used to maintain a consistent terrain clearance. The output of the altimeter is 13.1 mV/m and it can be read to a resolution of 1 mV for 0.076 metres.

The reference height above the geoid used for data purposes, was derived from the differentially corrected height value provided by the GPS receiver. The GPS height has a probable error of +/- 2m depending on satellite coverage.

Both GPS altitude and the radar terrain clearance were recorded every tenth of a second by the digital acquisition system.

Barometric pressure was recorded every 0.1 second using a Sentra pressure transducer with a range of 600 to 1600 Hpa and a resolution of 0.04 Hpa (equivalent to an error limit of +/- 0.4 metres).

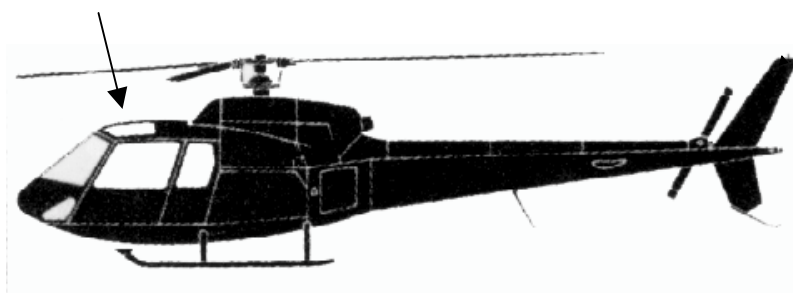
A Geo Instruments thermometer was mounted underneath the helicopter cowling. Temperature was recorded every 0.1 second with a resolution of 0.1°C and a typical error range of +/- 0.5°C.

5.4 GPS NAVIGATION SYSTEM

The guidance system for the helicopter was based on the U.S. Global Positioning System. GPS co-ordinates were referenced to the AGD84 spheroid.

An Ashtech G12 receiver mounted on the upper window of the helicopter cabin was used for navigation by means of analog and digital displays of the aircraft position located directly in front of the pilot. The corrected position is accurate to 1 metre for X and Y and 5 metres for Z (see Section 3.3).

GPS Antenna



5.5 DATA ACQUISITION SYSTEM

The Geo Instruments G2002 digital acquisition system is based on the IBM PC AT architecture. The system is fitted with several modules tailored to condition the input data from the various sensing instruments. A custom written software package facilitates the following:

- (a) Correct synchronisation of the data streams,
- (b) Formatting of all data received,
- (c) Extended error checking of all parameters,
- (d) Visual data presentation for monitoring purposes,
- (e) Generation and distribution of synchronising fiducial numbers,
- (f) Recording of data to magnetic media,
- (g) Calculation of position and provision of steering display for pilot.

5.6 BASE STATION MAGNETOMETER

A Geometrics Recording Base Station Model G-856 with analog and digital recording was used as a diurnal monitor and run continuously during the survey periods. A Geometrics G-823 magnetometer was also available as a base station monitor. The sensor of the magnetometer was placed in a low gradient area beyond the region of expected influence of any man-made interference.

Base station locations in AGD66

Sheffield

Mag A&B at 442800mE, 5419000mN

Zeehan

Mag A at 362985mE, 5360975mN

Mag B at 362960mE, 5361050mN

Marrawah

Mag A at 308865mE, 5465195mN

Mag B at 308820mE, 5465160mN

Cradle Mountain

Mag A at 411650mE, 5396350mN

Mag B at 411400mE, 5395800mN

All diurnal base station magnetometer data form part of the delivered digital information. Diurnal activity was classed as quiet throughout the survey and there were no significant diurnal magnetic variations.

6. CALIBRATIONS

6.1 ELECTROMAGNETIC SYSTEM

The electromagnetic response was calibrated using an external Q coil prior to the commencement of the survey program. A special calibration jig was used for ground calibrations, as suggested by Fitterman (1998) and as employed on previous projects (see photos in Appendix 5). Firmly anchored cradles are used to hold the EM bird to ensure any ground response is consistent.

The calibration of the EM system was undertaken at a resistive locality near each of the base positions. The chosen site was near each of the survey base stations, well away from any cultural features.

Calibration checks are conducted at the beginning and end of each sortie using internal coils, and at the beginning of each day using a ferrite phasing bar. Any drift is monitored by flying out of ground effect (above 350 metres) at least twice per hour to record electromagnetic zero levels. Prior to the commencement of surveying the EM system is run for at least an hour to stabilise temperatures and the system drift is observed and verified to be less than 5 ppm in 5 minutes.

6.2 MAGNETOMETER

The Geometrics G-822A Caesium vapour magnetometer operates on a split-beam principle with a constant relationship between the earth's magnetic field and the Larmor frequency (the frequency with which gyromagnetic moments precess in a magnetic field). They are therefore not subject to instrumental drift and do not require calibration.

6.3 ALTIMETER

The radar altimeter was calibrated against GPS height by multi-level flights prior to the commencement of the survey.

7. DATA PROCESSING

7.1 IN-FIELD DATA VERIFICATION

In-field quality control (QC) of the survey data entailed two stages of assessment. Firstly the field party leader at each of the survey bases conducted an analysis of the most recently acquired data using both proprietary company software and commercial software (e.g. Geosoft and ERMapper).

At each of the survey bases the post-processed GPS position information was merged with the geophysical data and then subjected to the following checks:

- a) Speed correlation,
- b) Identification of spikes, dropouts and noise bursts in all data streams,
- c) Verification that adequate flight path coverage was achieved,
- d) Checking flight line spacing and terrain clearance tolerances,
- e) Conformity to Contract specifications.

In addition, the field geophysicist processed the test line data to confirm consistency of the EM data. There were four test lines for this survey, one for each of the areas (location coordinates are presented in Appendix 1). Example plots of the mean calculated resistivity are presented in Appendix 6 for both the coplanar coils and the coaxial coils. The mean values are very consistent. A very high repeatability of data is evident.

7.2 FINAL PROCESSING

The final data processing was undertaken by Geo Instruments Pty Ltd using both Geosoft and Intrepid software. All data had previously been checked for any abnormalities by the in-field data verification system described in 7.1 above.

7.2.1 Flight Path Recovery

Processing of the differential GPS location data entailed the following steps:

- a) Post-flight differential GPS corrections using the Ranger differential position processing software where the real time differential GPS data was affected by limited correction satellite visibility (in valleys) or by microwave interference,
- b) No fiducial synchronisation is required as both range data and fiducials are synchronised to GPS time,
- c) Merging of positional data with geophysical data.

7.2.2 Electromagnetic Data Processing

Processing of the in phase and quadrature EM channels follows Cheesman (1998) and Valleau (2000), and entailed:

- a) Filtering to remove major spheric events and reduce system noise;
- b) Base level correction using high altitude EM zero levels;
- c) System parallax removal;
- d) Calculation of apparent resistivity for the coplanar coils;
- e) Gridding at 40m x 40m and micro-levelling using the Akima spline.

The resistivity formulae are taken from “Geo-Electromagnetism” by Wait (1982). They are standard integrals involving Bessel functions and reflection coefficients for a layered halfspace. For the nomogram look-up, a large number of models over a range of resistivities and depths are calculated, giving in-phase and quadrature results, to produce the nomogram grids (with in-phase and quadrature values on the axes, and the grid variables being resistivity, and depth.) The resistivity for a given value of in-phase and quadrature is then found by interpolating the grid. The inversion method as implemented in the Geosoft module was also used to calculate a second set of resistivity values.

The calculation of resistivities from HEM data is discussed by Fraser (1978). The need for levelling of resistivity values derived from HEM surveys is discussed by Huang and Fraser (1999).

7.2.3 Magnetic Processing

Having verified all data in the field, the final processing sequence is reduced to the following steps:

- a) Five point low pass filter,
- b) Diurnal variation removal,
- c) System parallax removal,
- d) IGRF removal,
- e) Micro levelling,
- f) Addition of the mean diurnal value and the IGRF base value,
- g) Gridding at 40m x 40m.

The helicopter magnetic data have been corrected for regional gradient by subtraction of the IGRF Model derived from the 2000-2005 and updated to 2001.9 secular variation model. The IGRF was calculated at each sample point at the GPS height of the aircraft, adjusted for the geoid-spheroid separation. Diurnal variations and system parallax have been removed. The mean diurnal value and IGRF base value have been added to the data. No filters were applied to the data prior to gridding. The minimum curvature algorithm was used for gridding of the data.

7.2.4 Digital Terrain Model (DTM) Processing

The digital terrain model is computed from the difference in GPS height and radar altitude. The raw GPS range data are recorded internally every one second and corrected using real time factors provided by the Fugro Omnistar satellite system. This yields the position of the aircraft GPS antenna, including longitude, latitude and height relative to the AGD84 reference ellipsoid for each set of range data (every one second).

The radar altimeter provided the aircraft's ground clearance, the altimeter data being sampled every tenth of a second. The radar altimeter results were lightly smoothed to remove any spikes, spurious reflections or instrument noise.

The raw ground elevation data were then calculated as the difference between the height of the aircraft above the ellipsoid and the height of the aircraft above the ground. These raw elevation data calculated every one second are relative to the AGD84 reference geoid.

The GPS antenna was mounted on the upper rear fuselage of the aircraft. The radar altimeter sensor was located under the belly at the front of the aircraft.

The digital terrain model information was gridded at 40m x 40m using the Akima gridding algorithm. Decorrugation and microlevelling tools were then applied.

DISCLAIMER NOT TO BE USED FOR NAVIGATION

This digital terrain model (DTM) has been computed from data generated during the course of an airborne geophysical survey flown at a nominal line spacings and data have been interpolated/gridded between such lines. Every effort has been made to make the model a useful general reference. No guarantee can be made that this model is a true representation of height above sea level and it does contain radar altimeter responses from buildings and dense timber. Users of this product should be aware of the topographic limitations mapped here within. **Do not use this DTM for navigation purposes.**

8. DELIVERED ITEMS

Following implementation of all corrections and levelling of the EM, magnetic and DTM fields, ERMapper grid files were generated and subject to further micro-levelling. Preliminary maps and preliminary grid files were delivered for review and approval, then final digital data files were delivered.

Quality Control Products

- (a) Flight path maps at 1:50,000 scale.
- (b) Corrected electromagnetic data as apparent conductivities for coplanar frequencies in mS/m, levelled to a quality such that an enhanced image with artificial illumination applied in a direction perpendicular to the flight line direction does not show any evidence of streaking.
- (c) Corrected magnetic data levelled to a quality such that an enhanced image of the first vertical derivative grid or total magnetic intensity grid with artificial illumination applied in a direction perpendicular to the flight line direction does not show any evidence of streaking.
- (d) Elevation data of such quality that no streaking is evident on enhanced images of the data with artificial illumination applied in a direction perpendicular to the flight line direction.

Final Map and Image Products at 1:50,000 Scale

Following review of a draft template and image of apparent resistivity at 880 Hertz, two laminated copies, on high quality paper at 1:50 000 scale, were delivered of:
three apparent resistivity images; and
one ternary apparent resistivity image.

The inversion method in the Geosoft HEM processing module was employed for the data displayed in these images.

One copy at 1:50 000 scale of multi-parameter plots (multiplots) for each line showing:

- in-phase response for each frequency;
- quadrature response for each frequency;
- magnetics (fine and coarse scales);
- digital terrain model;
- radar altimeter;
- GPS height;
- fiducial; and
- GPS position.

Digital Data

Exabyte tape containing Final Located Data. CD-ROM containing Gridded Apparent Resistivity for each coplanar coil set, Gridded Total Magnetic Intensity and Gridded Digital Terrain Model.

Operations and Processing Report

Data delivery included this Operations and Processing Report on the helicopter electromagnetic survey program and data processing.

REFERENCES

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APPENDIX 1

Map of Survey Areas and List of Coordinates of Survey Areas and Test Areas

APPENDIX 2

Detailed Catalogue of Survey Lines

APPENDIX 3

Operations Summary

APPENDIX 4

Operators Flight Logs

APPENDIX 5

Calibration of Sensors

Electromagnetic Calibration

Geo Instruments considered that ground calibration of the system on a day-to day basis would be suitable at the base station location of each area. Initial calibration was performed at Zeehan airstrip over an area deemed to be of low conductivity as determined by a ground survey by Dr. James Reid using a SiroTem transmit/receiver system.

Subsequent evaluations of the suitability of the survey base areas were conducted using the initial values derived from Zeehan as benchmarks.

It became evident that a systematic calibration error was being introduced into the 34KHz frequency and after some investigation, it was found that the second boom had a slightly different spacing between the end-cap and the receiver coil. This introduced an calibration error of a factor 1.1818. In the interests of consistency, it was decided to continue the erroneous calibration on those areas where flying had already taken place and apply the correction during processing. The attached figures show the Q coil response test with and without corrections applied.

The areas that were affected were Dolcoath, Meredith and the majority of Mt.Read. The actual flight numbers and days are tabulated in the headers of the data block that is included in Appendix 7 of this report.

The calibration of the EM system was undertaken at a resistive locality near each of the base positions. Automatic transmitter stabilisation circuitry within the Hummingbird ensures that no change in calibration would occur over the duration of each flight of this project.

The chosen site was near each of the survey base stations, well away from any cultural features. Care was taken to ensure that there were no underground cables crossing the test area. The land surface is flat and it was not possible to estimate the thickness of the soil horizon. Calibrations were conducted on a daily basis for all areas.

The attached photographs demonstrate the procedure employed in calibration of the Hummingbird system.

APPENDIX 6

Example Test Line Plots

APPENDIX 7

Digital Data Formats

Raw Data Format Description Geo Instruments G2002 Acquisition System

Master key file *.geo extension.

Format as per ZDAS version 8.1c21st February 2001

This file acts as an index for all auxillary data files as well as storing key data values as per format list below.

Line 1 Header containing the following fields;
Line 2 to end of file containing the following fields;

Field	pos – pos	type	descriptor
1	1 - 67	string	Header info

Field	pos – pos	type	descriptor
1	1 5	integer	Fiducial
2	6 16	float 5.5	Timer
3	17 24	long	mag *1000
4	25 32	long	mag *1000
5	33 40	long	mag *1000
6	41 48	long	mag *1000
7	49 56	long	mag *1000
8	57 61	integer	total count (dct corr)
9	62 65	integer	potassium (dct corr)
10	66 69	integer	uranium (dct corr)
11	70 73	integer	thorium (dct corr)
12	74 77	integer	cosmic (dct corr)

Example of first five lines of a .geo file

```
FLT 02 LINE 002 GPSTIME 005408.00 Day 85 10:54:08 WGS84 Zone=56
12317 8845.50005700230457002260570022165700214057002080 708 55 29 34 60
12318 8846.00005700258057002528570024645700240857002364 708 55 29 34 60
12319 8846.50005700276457002764570027445700270057002640 714 67 27 36 55
12320 8847.00005700302857002920570028445700280857002776 714 67 27 36 55
12321 8847.50005700350857003416570033245700322457003124 672 80 18 22 49
```

Raw Data Format Description Geo Instruments G2002 Acquisition System

Navigation/Position file *.GPS extension

Format as per ZDAS version 8.1c 21st February 2001.

This file contains raw GPS positions returned from the primary positioning receiver against fiducial/timer counter. The precision and accuracy of the values is dependent on the mode in which the primary GPS is operating. If the RTCM value in the RTCM field is valid (greater than zero and less than 60) then the position can be related to a ground station or network. If the RTCM value is invalid then the positional accuracy is defined by the autonomous mode nominal accuracy values.

Line 1 Header containing the following fields;

Field	pos	- pos	type	descriptor
1	1	- 67	string	Header info

Line 2 to end of file containing the following fields;

Field	pos	- pos	type	descriptor
1	1	10	float 5.5	timer
2	11	19	float 6.2	GPS Time (hhmmss.ss)
3	20	28	float 7.1	metres easting UTM
4	29	37	float 7.1	metres northing UTM
5	38	43	float 4.1	metres ellipsoid height
6	44	49	integer	metres error Xtrack
7	50	56	float 4.1	seconds RTCM correction latency

Example of a .GPS file (subset)

```
FLT 02 LINE 004 GPSTIME 225625.00 Day 85 08:56:25 WGS84 Zone=56
1782.5000225625.00 360426.46349622.1 87.0 3 6.0
1783.0000225625.50 360428.86349634.1 86.4 3 6.0
1783.5000225626.00 360431.16349647.1 85.1 4 7.0
1784.0000225626.50 360434.86349659.7 83.7 4 7.0
1784.5000225627.00 360439.76349672.3 82.5 2 7.0
1785.0000225627.50 360443.36349684.8 81.6 2 7.0
```

Raw Data Format Description: Geo Instruments G2002 Acquisition System

Magnetometer file *.MAG extension.

Format as per ZDAS version 8.1c21st February 2001

This file contains the magnetometer related data that is recorded as an output from the RMS Instruments Automatic Compensator. The data format from the compensator is configurable, but the following format is the standard format adopted by Geoinstruments for all helicopter surveys.

Line 1 Header containing the following fields;

Field	pos	– pos	type	descriptor
1	1	- 67	string	Header info

Line 2 to end of file containing the following fields;

<u>Field</u>	<u>pos</u>	<u>– pos</u>	<u>type</u>	<u>descriptor</u>
1	0	1	string	indicator start of line
2	2	8	long	AADC fiducial counter
3	9	18	float 6.2	Vector Mag X axis
4	19	28	float 6.2	Vector Mag Y axis
5	29	38	float 6.2	Vector Mag Z axis
6	39	48	float 6.2	Vector Mag total field
7	49	58	float 6.3	Mag1 Raw Uncomp unfiltered.
8	59	68	float 6.3	Mag1 Uncomp filtered.
9	69	78	float 6.3	Mag1 Compensated filtered
10	79	81	flag	0=invalid 1= valid

Example of header and five lines of *.MAG file

```
FLT 02 LINE 001 GPSTIME 225133.00 Day 85 08:51:34 WGS84 Zone=56
# 50862 +48767.02 -30000.02 -3547.18 57365.54 56977.281 56978.102 56965.429 1
# 50863 +48883.81 -29810.48 -3519.77 57364.45 56976.613 56977.765 56965.397 1
# 50864 +49022.31 -29584.99 -3471.58 57362.97 56976.058 56977.359 56965.362 1
# 50865 +49181.54 -29323.98 -3400.70 57361.00 56975.570 56976.886 56965.330 1
# 50866 +49361.17 -29025.42 -3311.51 57358.23 56974.604 56976.349 56965.301 1
```


Raw Data Format Description Geolnstruments G2002 Acquisition System

Navigation/Position file *.POS extension

Format as per ZDAS version 8.1c21st February 2001.

This file contains raw GPS positions returned from the primary positioning receiver against GPS time.. The *.POS files are a direct recording of the NMEA message from the GPS receiver of the type GPGGA. As such, the format is fully described in the user's manual for the specific GPS receiver. The GPGGA message is generic and is adhered to loosely by some manufacturers, so it is advisable to verify the exact format with the actual type of GPS receiver used on the survey. This file is not normally used for any data merging post flight but is included for data redundancy and archival traceability purposes.

Line 1 Header containing the following fields;

Field	pos – pos	type	descriptor
1	1 - 67	string	Header info

Line 2 to end of file containing the following fields which are separated by commas;

Field	type	descriptor
1	string	\$GPGGA NMEA label
2	numeric	GPS Time
3	numeric	Latitude of posn
4	label	Hemisphere of Latitude (N/S)
5	numeric	Longitude of posn
6	label	Hemisphere of Longitude (E/W)
7	flag	Receiver mode (1= autonomous, 2=RTCM corr)
8	numeric	Number of satellites used in solution
9	flag	Solution OK (1=yes 0=no)
10	numeric	Height above ellipsoid
11	indicator	M=metres
12	numeric	Separation between geoid and ellipsoid
13	indicator	M=metres
14	numeric	RTCM latency
15	string	*checksum

Example of two lines from a file of *.POS

```

FLT 02 LINE 001 GPSTIME 225133.00 Day 85 08:51:34 WGS84 Zone=56
$GPGGA,225133.00,3254.78039,S,15131.72567,E,2,8,1,125.15,M,25,M,6,100*7E
$GPGGA,225133.50,3254.78800,S,15131.72310,E,2,8,1,123.30,M,25,M,6,100*7E
    
```

Data Format for HUM Files (Intermediate processed files)

Line 1 is a generic header line to table line relevant information.

FLT 08 DAY 13 Trav 418 GpsTym 043130.0 LocTym 15:31:31 WGS84 Zone= 55

Field 01 = Flight number
 Field 02 = Day of year (related to local time)
 Field 03 = Line type descriptor
 Field 04 = Line sequence number
 Field 05 = GpsTym Label
 Field 06 = Gps Time Field HHMMSS.s
 Field 07 = Local time Label
 Field 07 = Local time HH:MM:SS
 Field 08 = Datum reference for GPS positions
 Field 09 = UTM Zone identifier

Line 2 to end of file contains lines of the following format.

```
165425.2 8256436.3 1486 1647.4 12.74217 48863.992 48837.10 -58.23
551.22 -12.61 14.00 -14.99 7.33 -8.91 42.16 28.62 -36.14
97.7 3582.0 634.2 30.20
```

Where;

Field 01 = Float 6.1	Position Easting in metres referenced to UTM Zone as per header
Field 02 = Float 7.1	Position Northing in metres referenced to UTM Zone as per header
Field 03 = Int 5.0	System fiducial number (duotonic)
Field 04 = Float 2.5	System time HH.mmmmm
Field 05 = Float 6.3	GeoInstruments Counter Magnetometer value.
Field 06 = Float 6.2	GeoTech Counter Magnetometer value.
Field 07 = Float 6.0	HEM Coil 7K Coax In Phase.
Field 08 = Float 6.0	HEM Coil 7K Coax Quadrature Phase.
Field 09 = Float 6.0	HEM Coil 6K CoPlanar In Phase.
Field 10 = Float 6.0	HEM Coil 6K CoPlanar Quadrature Phase.
Field 11 = Float 6.0	HEM Coil 980Hz Coax In Phase.
Field 12 = Float 6.0	HEM Coil 980Hz Coax Quadrature Phase.
Field 13 = Float 6.0	HEM Coil 880Hz Coax In Phase.
Field 14 = Float 6.0	HEM Coil 880Hz. Coplanar Quadrature Phase.
Field 15 = Float 6.0	HEM Coil 34K Coplanar In Phase.
Field 16 = Float 6.0	HEM Coil 34K Coplanar Quadrature Phase
Field 17 = Float 4.1	Radar altimeter meters above radar reflective terrain.
Field 18 = Float 4.1	Barometric pressure in hectoPascals.
Field 19 = Float 4.1	Gps height above ellipsoid.
Field 20 = Float 4.1	Outside air temperature in degrees Celsius.

Coordinates of Survey and Test Areas, Projection TMAMG55, Datum AGD66

Area A - Dolcoath

Survey Area

Eastings (m)	Northings (m)
432500.0	5410000.0
434000.0	5405000.0
432500.0	5400000.0
424500.0	5396600.0
415000.0	5397000.0
410000.0	5400000.0
410000.0	5402400.0
418000.0	5409000.0
421000.0	5410000.0
432500.0	5410000.0

Test Area – Line 082

426183	5407428
426200	5411253

Area B - Meredith

Survey Area

Eastings (m)	Northings (m)
357500.0	5400600.0
354500.0	5400600.0
354500.0	5404000.0
368000.0	5412000.0
371500.0	5415600.0
382500.0	5417000.0
382500.0	5413000.0
378500.0	5409000.0
380000.0	5404000.0
378000.0	5398000.0
378000.0	5394000.0
368500.0	5386800.0
360500.0	5381200.0
358000.0	5380000.0
356500.0	5379000.0
353000.0	5399400.0
351500.0	5386000.0
358000.0	5386000.0
358000.0	5383600.0
360500.0	5383600.0
360500.0	5388400.0
363500.0	5388400.0
366000.0	5393000.0
370000.0	5393000.0
372000.0	5400000.0
372000.0	5404400.0
370050.0	5404400.0
368000.0	5400600.0
361000.0	5400600.0
361000.0	5398600.0
357500.0	5398600.0

Test Area

410095	5399000
396279	5399000

Area D – Mt Read

Survey Area

Eastings (m)	Northings (m)
381000.0	5351000.0
381535.0	5350000.0
389200.0	5350000.0
389200.0	5349000.0
389200.0	5445400.0
384000.0	5445400.0
383800.0	5333400.0
382000.0	5330000.0
384800.0	5325000.0
384800.0	5323400.0
383000.0	5323400.0
383000.0	5314600.0
380000.0	5314600.0
380000.0	5319600.0
379000.0	5321000.0
379000.0	5331000.0
377500.0	5335000.0
380200.0	5341400.0
372600.0	5341400.0
372600.0	5350000.0
375600.0	5355000.0
374800.0	5363000.0
376000.0	5373000.0
374500.0	5373000.0
369000.0	5362000.0
371000.0	5362000.0
371000.0	5361100.0
351600.0	5351400.0
350000.0	5356600.0
354500.0	5359000.0
350000.0	5367000.0
340000.0	5367000.0
335000.0	5373000.0
341000.0	5373000.0
346000.0	5371600.0
354000.0	5373000.0
361000.0	5364000.0
364000.0	5366000.0
366500.0	5375600.0
371000.0	5378500.0
377000.0	5378500.0
377000.0	5383600.0
376000.0	5383600.0
376000.0	5391000.0
380000.0	5391000.0
396000.0	5404600.0
396000.0	5413000.0
404000.0	5413000.0
404000.0	5409400.0
402000.0	5405600.0

404000.0	5402000.0
404000.0	5398000.0
398500.0	5393600.0
394000.0	5393600.0
387000.0	5381466.0
387000.0	5375000.0
388800.0	5370500.0
388800.0	5370500.0
383600.0	5363000.0
380000.0	5363000.0
382000.0	5357000.0

Test Area – Zeehan Airstrip

363198	5361109
362989	5360756

Area E - Balfour

Survey Area

Eastings (m)	Northings (m)
306700.0	5437600.0
305000.0	5440000.0
326000.0	5440000.0
340000.0	5405200.0
329000.0	5395400.0
326500.0	5416000.0
314800.0	5416000.0
313300.0	5420600.0
309500.0	5426000.0
306700.0	5433000.0

Test Area

362981	5360736
363415	5363284

**Line Channel Report
Dolcoath Area A**

Line	East Min	East Max	Nthg Min	Nthg Max	Line len
Lne 001	410105.5	410115.4	5399960.0	5402865.4	2.91
Lne 002	410310.1	410321.9	5399805.1	5403012.5	3.21
Lne 003	410506.7	410519.3	5399713.0	5403204.9	3.49
Lne 004	410709.8	410720.4	5399551.4	5403349.5	3.80
Lne 005	410902.3	410919.6	5399473.1	5403525.5	4.05
Lne 006	411106.1	411115.3	5399358.5	5403705.5	4.35
Lne 007	411310.0	411320.7	5399206.0	5403837.6	4.63
Lne 008	411503.0	411517.7	5399151.5	5404017.4	4.87
Lne 009	411711.5	411721.6	5398919.4	5404182.0	5.26
Lne 010	411907.2	411917.6	5398891.5	5404371.0	5.48
Lne 011	412111.1	412120.3	5398747.1	5404514.6	5.77
Lne 012	412305.4	412318.9	5398645.5	5404730.5	6.09
Lne 013	412507.0	412522.1	5398435.5	5404839.5	6.40
Lne 014	412706.9	412719.0	5398402.0	5404976.6	6.57
Lne 015	412909.2	412919.7	5398277.5	5405176.0	6.90
Lne 016	413107.6	413117.5	5398179.6	5405348.0	7.17
Lne 017	413308.7	413320.2	5397965.4	5405502.0	7.54
Lne 018	413507.1	413516.2	5397918.5	5405633.0	7.71
Lne 019	413707.4	413722.6	5397791.0	5405816.4	8.03
Lne 020	413906.7	413918.6	5397699.5	5406029.0	8.33
Lne 021	414111.0	414121.4	5397528.0	5406154.4	8.63
Lne 022	414306.2	414316.8	5397436.5	5406317.5	8.88
Lne 023	414511.0	414521.1	5397262.5	5406495.5	9.23
Lne 024	414706.4	414716.1	5397207.0	5406651.5	9.44
Lne 025	414911.6	414923.0	5397000.5	5406798.1	9.80
Lne 026	415106.1	415118.0	5397079.5	5407027.1	9.95
Lne 027	415308.9	415324.1	5396974.5	5407151.5	10.18
Lne 028	415504.3	415521.5	5397073.0	5407344.5	10.27
Lne 029	415708.8	415726.2	5396951.9	5407480.6	10.53
Lne 030	415905.7	415916.7	5397048.4	5407679.0	10.63
Lne 031	416104.0	416116.6	5397046.6	5407872.0	10.83
Lne 032	416307.1	416321.6	5397016.1	5407971.5	10.96
Lne 033	416503.2	416519.9	5397041.4	5408148.0	11.11
Lne 034	416708.8	416723.9	5397001.0	5408293.4	11.29
Lne 035	416902.4	416925.0	5397014.1	5408529.0	11.51
Lne 036	417105.0	417122.1	5396889.0	5408629.5	11.74
Lne 037	417304.3	417318.5	5397005.5	5408795.4	11.79
Lne 038	417504.6	417518.3	5396989.5	5408981.6	11.99
Lne 039	417709.7	417726.0	5396938.0	5409128.1	12.19
Lne 040	417903.2	417923.3	5396975.0	5409297.5	12.32
Lne 041	418107.8	418121.8	5396961.5	5409339.0	12.38
Lne 042	418305.4	418318.2	5396954.5	5409490.5	12.54
Lne 043	418508.7	418525.1	5396864.0	5409478.0	12.61
Lne 044	418706.2	418720.0	5396930.0	5409572.1	12.64
Lne 045	418906.7	418925.4	5396901.1	5409602.9	12.70
Lne 046	419104.4	419118.0	5396890.6	5409669.4	12.78
Lne 047	419309.6	419325.1	5396867.5	5409711.1	12.84
Lne 048	419507.5	419521.5	5396867.5	5409791.0	12.92
Lne 049	419704.8	419720.6	5396885.5	5409893.4	13.01
Lne 050	419903.9	419923.0	5396781.0	5409929.5	13.15
Lne 051	420105.0	420118.4	5396883.0	5410022.9	13.14
Lne 052	420303.7	420318.0	5396871.0	5410110.9	13.24
Lne 053	420508.8	420522.6	5396817.5	5410141.4	13.32
Lne 054	420706.4	420721.2	5396852.5	5410245.5	13.39
Lne 055	420909.8	420921.0	5396833.6	5410287.0	13.45
Lne 056	421106.8	421124.5	5398426.1	5410279.5	11.85
Lne 056	421111.0	421121.2	5396762.5	5403098.4	6.34
Lne 057	421303.5	421321.3	5396812.9	5410252.0	13.44
Lne 058	421479.2	421532.3	5396792.1	5410274.4	13.48
Lne 059	421704.4	421725.1	5396797.0	5410290.4	13.49
Lne 060	421900.0	421924.9	5396784.5	5410286.5	13.50
Lne 061	422103.3	422121.5	5396783.5	5410362.5	13.58
Lne 062	422308.0	422323.5	5396713.0	5410280.1	13.57

Lne 063	422502.1	422522.5	5396762.0	5410295.5	13.53
Lne 064	422708.2	422721.4	5396738.0	5410288.4	13.55
Lne 065	422906.7	422924.1	5396755.0	5410300.0	13.55
Lne 066	423104.7	423123.7	5396728.6	5410298.1	13.57
Lne 067	423302.5	423317.1	5396733.1	5410301.1	13.57
Lne 068	423508.5	423526.7	5396706.4	5410295.1	13.59
Lne 069	423705.1	423717.9	5396708.5	5410301.5	13.59
Lne 070	423909.4	423923.1	5396685.0	5410292.0	13.61
Lne 071	424102.5	424129.7	5396680.5	5410373.0	13.69
Lne 072	424305.4	424321.7	5396634.0	5410265.0	13.63
Lne 073	424507.1	424751.5	5396674.5	5410362.9	13.69
Lne 074	424707.7	424721.7	5396663.9	5410290.5	13.63
Lne 075	424884.2	425016.1	5396707.0	5410300.6	13.59
Lne 076	425107.6	425127.1	5396779.0	5410273.1	13.49
Lne 077	425302.5	425323.0	5396880.4	5410342.6	13.46
Lne 078	425509.6	425523.5	5396973.5	5410279.5	13.31
Lne 079	425703.5	425721.6	5397059.5	5410368.0	13.31
Lne 080	425906.6	425924.4	5397095.9	5410275.5	13.18
Lne 081	426100.2	426122.4	5397250.0	5410320.1	13.07
Lne 082	426303.4	426325.0	5397303.5	5410305.5	13.00
Lne 083	426506.6	426523.2	5397353.5	5410291.9	12.94
Lne 084	426700.3	426722.8	5397489.9	5410274.0	12.78
Lne 085	426906.0	426926.9	5397525.1	5410269.0	12.74
Lne 086	427097.9	427121.1	5397651.9	5410371.0	12.72
Lne 087	427307.6	427325.4	5397693.0	5410290.4	12.60
Lne 088	427499.9	427531.5	5397832.6	5410293.9	12.46
Lne 089	427644.7	427725.8	5397839.0	5410274.0	12.44
Lne 090	427859.0	427962.6	5397995.0	5410320.5	12.33
Lne 091	428103.3	428134.0	5398044.5	5410292.4	12.25
Lne 092	428300.9	428322.6	5398186.0	5410311.5	12.13
Lne 093	428492.2	428522.1	5398254.0	5410272.0	12.02
Lne 094	428703.6	428728.2	5398339.5	5410363.6	12.02
Lne 095	428899.9	428957.2	5398403.5	5410296.6	11.89
Lne 096	429104.5	429204.5	5398515.4	5410272.0	11.76
Lne 097	429276.7	429351.9	5398589.4	5410298.5	11.71
Lne 098	429505.1	429522.0	5398686.4	5410317.4	11.63
Lne 099	429705.9	429725.8	5398747.4	5410266.1	11.52
Lne 100	429874.6	429936.8	5398842.4	5410346.6	11.50
Lne 101	430108.5	430123.4	5398880.5	5410281.0	11.40
Lne 102	430303.0	430321.3	5399029.6	5410303.9	11.27
Lne 103	430506.6	430521.1	5399098.0	5410290.4	11.19
Lne 104	430702.6	430720.6	5399180.6	5410292.5	11.11
Lne 105	430899.7	430922.0	5399201.1	5408876.0	9.67
Lne 106	431034.8	431139.2	5399381.0	5410337.5	10.96
Lne 107	431253.4	431321.6	5399356.5	5409353.1	10.00
Lne 108	431493.7	431562.3	5399513.0	5410276.5	10.76
Lne 109	431701.3	431741.6	5399624.5	5410264.0	10.64
Lne 110	431905.8	431922.8	5399692.6	5410287.5	10.59
Lne 111	432046.5	432123.6	5399800.5	5410295.0	10.49
Lne 112	432309.2	432331.8	5399838.5	5410307.5	10.47
Lne 113	432504.4	432518.0	5399943.5	5410296.0	10.35
Lne 114	432710.7	432721.6	5400013.9	5410289.9	10.28
Lne 115	432903.5	432924.2	5400432.6	5409962.0	9.53
Lne 116	433110.0	433129.8	5401078.9	5409295.5	8.22
Lne 117	433300.3	433319.5	5401782.1	5408657.4	6.88
Lne 118	433509.5	433524.1	5402356.0	5407937.4	5.58
Lne 119	433705.1	433719.6	5403097.5	5407292.4	4.19
Lne 120	433911.5	433921.8	5403727.1	5406631.6	2.90
Tie 001	420671.5	432879.6	5410075.9	5410092.1	12.21
Tie 002	416641.4	433408.2	5408136.9	5408254.6	16.77
Tie 003	414248.2	434096.4	5406160.9	5406183.1	19.85
Tie 004	411853.0	434011.5	5404150.9	5404171.0	22.16
Tie 005	409894.7	433403.8	5402157.4	5402208.0	23.51
Tie 006	409938.6	432741.4	5400147.9	5400170.0	22.80
Tie 007	413244.0	428058.8	5398152.9	5398169.5	14.81
Tie 008	414113.0	426088.6	5396887.0	5397411.6	11.99

Total Distance = 1442.9 kms

**Line Channel report
Meredith Area B**

Flights : 25 to 99 Lines : 100101 to 720301

Flight	Line	Dist	StartFID	EndFID	StartX	EndX	StartY	EndY
30	100101	1.831	2266	2311	380803	382632	5417004	5417008
30	100201	3.398	2090	2202	382575	379185	5416796	5416796
30	100301	5.356	1894	2041	377251	382598	5416602	5416607
30	100401	7.379	1480	1780	382582	375224	5416403	5416396
30	100502	7.466	1186	1438	375202	382650	5416206	5416202
30	100601	9.709	560	947	382579	372903	5416002	5415997
30	100701	11.281	135	519	371391	382642	5415804	5415803
30	100801	11.450	6094	6581	382590	371178	5415599	5415593
30	100901	11.578	5708	6042	371022	382577	5415419	5415402
30	101001	11.821	5238	5665	382576	370789	5415195	5415192
30	101101	12.032	2850	3325	382587	370591	5415001	5414990
30	101201	12.281	3352	3767	370419	382669	5414826	5414810
30	101301	12.415	3813	4282	382582	370207	5414597	5414601
37	101401	12.615	4203	4597	370016	382608	5414401	5414404
37	101501	12.769	3776	4158	382569	369821	5414198	5414197
37	101601	13.015	3230	3644	369646	382638	5414004	5414005
37	101701	13.151	2780	3172	382566	369434	5413798	5413799
37	101801	13.424	2282	2734	369241	382639	5413604	5413607
37	101901	13.582	1689	2118	382598	369043	5413398	5413399
37	102001	13.775	1133	1642	368879	382621	5413205	5413204
37	102101	14.003	596	1080	382592	368621	5412990	5413001
36	102201	10.105	5772	6239	368486	378545	5412802	5412810
36	102202	9.939	193	615	373360	383263	5412802	5412805
36	102301	14.364	5141	5718	382580	368271	5412601	5412603
36	102402	14.635	4210	4847	368073	382649	5412398	5412407
36	102502	14.787	3572	4152	382585	367846	5412196	5412196
36	102601	14.387	2658	3360	367545	381861	5412005	5412004
36	102702	14.412	2014	2599	381573	367210	5411796	5411802
36	102801	14.651	1102	1764	366881	381469	5411598	5411603
36	102901	14.743	397	1041	381181	366535	5411392	5411393
98	123002	14.815	250	766	366207	380989	5411201	5411203
35	103102	15.192	2622	3272	380799	365828	5411007	5411004
35	103202	15.544	1749	2446	365531	380638	5410809	5410809
35	103301	1.102	1043	1082	380395	379334	5410599	5410750
35	103302	12.563	1140	1693	377356	365128	5411010	5410602
35	103402	15.899	124	831	364852	380395	5410410	5410398
35	103501	15.675	5974	6613	379990	364506	5410198	5410197
35	103601	15.692	5118	5787	364178	379802	5410004	5410010
35	103701	15.827	4296	5050	379573	363816	5409806	5409806
35	103801	16.257	3228	4068	363492	379669	5409605	5409602
35	103902	17.038	2324	3114	379590	362696	5409392	5409403
33	104001	16.855	2925	3647	362848	379637	5409198	5409206
33	104101	17.180	2209	2836	379599	362469	5408996	5408997
33	104201	17.511	827	1376	362160	379639	5408802	5408805
33	104301	17.855	200	754	379598	361776	5408599	5408603
32	104401	18.234	2364	2871	361479	379686	5408402	5408401
32	104501	18.462	676	1156	379563	361124	5408197	5408196
32	104602	18.806	140	627	360823	379605	5408005	5408006
32	104701	19.189	5905	6372	379580	360412	5407794	5407800
32	104801	19.604	5353	5863	360127	379707	5407606	5407606
32	104901	19.778	4814	5298	379557	359801	5407397	5407399
32	105001	20.175	4100	4610	359459	379611	5407207	5407208
32	105101	20.500	3525	4044	379586	359112	5406998	5406999
32	105201	20.872	2762	3354	358798	379636	5406803	5406804
32	105301	21.212	2139	2708	379594	358409	5406598	5406598
32	105401	21.519	1370	1964	358109	379596	5406401	5406405
32	105501	21.806	729	1301	379466	357685	5406199	5406197
31	105601	22.261	1944	2566	357423	379652	5406006	5406002
31	105701	22.574	515	1117	379592	357049	5405798	5405799
31	105801	13.850	6136	6566	356764	370587	5405605	5405605
31	105802	13.374	149	450	366281	379644	5405603	5405602
31	105901	23.393	5292	5917	379720	356357	5405398	5405399

31	106001	23.840	4621	5241	356082	379894	5405203	5405205
31	106101	24.210	3730	4382	379855	355677	5404998	5405000
31	106201	24.566	2978	3673	355416	379946	5404805	5404805
31	106301	24.991	740	1467	379963	355011	5404601	5404599
25	106401	13.962	749	1137	380011	366071	5404393	5404401
31	106402	14.123	2221	2703	368798	354708	5404406	5404399
25	106501	14.152	1183	1580	365971	380101	5404199	5404206
31	106502	14.288	1715	2184	354396	368654	5404203	5404205
37	106601	25.746	4900	5625	380057	354348	5403998	5403997
37	106701	25.787	5671	6403	354394	380140	5403805	5403805
37	106802	25.678	162	871	380014	354370	5403600	5403597
37	106901	25.659	930	1660	354388	380006	5403401	5403404
38	107001	25.574	474	1168	379888	354350	5403202	5403200
38	107101	25.344	1229	1914	354544	379849	5403005	5403005
38	107201	25.469	2100	2810	379737	354301	5402797	5402797
38	107301	25.391	2868	3590	354394	379747	5402608	5402602
38	107401	25.250	3783	4589	379589	354387	5402399	5402391
38	107501	25.220	4658	5462	354383	379556	5402204	5402205
38	107601	25.174	5595	6379	379496	354370	5401996	5402010
52	107703	24.581	880	1797	379414	354894	5401797	5401796
52	107802	25.025	3554	4513	379356	354398	5401598	5401598
52	107901	25.021	2251	3290	354396	379341	5401410	5401405
52	108001	24.953	4825	5730	354403	379295	5401208	5401201
52	108101	15.204	6268	6811	379172	364000	5401001	5400999
52	108102	14.815	158	750	369144	354371	5400995	5400999
52	108202	24.788	900	1875	354383	379104	5400806	5400800
85	108303	24.740	3284	4221	379016	354339	5400598	5400598
85	108401	21.693	4546	5320	357387	379028	5400403	5400405
97	108501	3.749	174	318	357389	361129	5400202	5400191
85	108601	7.449	5524	5803	378876	371445	5400201	5400200
97	108701	3.675	381	495	361072	357403	5400002	5399998
85	108802	7.437	6179	6431	371427	378846	5399997	5400005
97	108901	3.753	565	670	357384	361131	5399802	5399800
85	109001	7.416	6492	6752	378754	371354	5399798	5399797
97	109101	3.773	714	836	361095	357329	5399601	5399600
85	109201	7.288	7063	7318	371435	378706	5399599	5399606
97	109301	3.763	887	999	357387	361144	5399400	5399400
85	109401	7.248	7373	7633	378605	371374	5399396	5399398
97	109501	3.758	1036	1163	361102	357351	5399202	5399198
85	109601	7.191	7683	7938	371442	378613	5399199	5399196
97	109701	3.715	1223	1325	357403	361113	5399006	5399000
85	109801	7.140	8136	8413	378485	371366	5399004	5399000
97	109901	3.712	1364	1496	361093	357390	5398801	5398804
85	110001	7.053	8473	8753	371461	378492	5398803	5398805
97	110101	3.780	1546	1666	357396	361169	5398602	5398601
85	110201	6.917	8810	9089	378361	371467	5398599	5398600
85	110301	6.967	9274	9553	371370	378317	5398398	5398399
85	110401	6.939	9592	9856	378231	371312	5398203	5398201
85	110501	6.905	9910	10211	371264	378141	5398002	5398004
85	110601	6.916	10395	10667	378103	371208	5397802	5397801
98	110702	6.996	1104	1413	378101	371131	5397587	5397599
98	110802	7.112	1467	1769	371082	378174	5397407	5397400
98	110901	7.088	1823	2145	378094	371033	5397201	5397197
98	111001	7.182	2193	2510	370993	378149	5397004	5397002
98	111101	7.245	2752	3109	378077	370862	5396797	5396800
98	111201	7.320	3163	3530	370868	378157	5396603	5396601
98	111301	7.369	3587	3974	378097	370762	5396401	5396397
98	111401	7.476	4020	4417	370734	378176	5396198	5396206
98	111501	7.514	4783	5180	378090	370614	5396002	5395997
98	111601	7.524	5228	5608	370634	378125	5395801	5395803
98	111701	7.646	5660	6087	378107	370505	5395602	5395599
98	111801	7.610	6326	6715	370538	378117	5395402	5395402
98	111901	7.676	6777	7278	378110	370495	5395204	5395198
98	112001	7.767	7334	7751	370404	378138	5395002	5395003
46	112101	7.795	2323	2680	370346	378115	5394800	5394803
46	112201	7.865	1923	2270	378095	370258	5394595	5394601
46	112301	7.904	1384	1760	370224	378088	5394395	5394408
46	112401	8.032	887	1324	378099	370109	5394196	5394196

46	112501	8.033	401	798	370115	378112	5394005	5393999
46	112601	7.130	6269	6649	378078	370987	5393798	5393801
46	112602	4.659	126	353	374644	370004	5393797	5393801
46	112701	7.902	5673	6090	369999	377856	5393603	5393603
46	112801	7.696	5222	5619	377576	369916	5393404	5393393
39	112901	11.949	605	1237	377297	365401	5393199	5393197
46	113001	11.984	4510	5134	365457	377384	5393005	5393007
46	113101	11.376	1357	1921	376777	365453	5392799	5392800
45	113201	11.112	3120	3607	365454	376528	5392606	5392604
45	113301	10.872	2458	2937	376263	365431	5392405	5392396
45	113401	10.725	1914	2376	365336	376025	5392196	5392204
45	113501	10.535	1366	1808	375711	365211	5391994	5391998
45	113601	10.364	4785	5197	375434	365104	5391797	5391800
45	113701	10.229	4313	4713	365009	375208	5391607	5391606
45	113801	10.047	3823	4255	374914	364902	5391395	5391398
45	113901	9.869	3167	3571	364816	374655	5391202	5391206
45	114001	9.759	2708	3112	374403	364676	5391004	5390996
45	114101	9.575	2231	2642	364575	374123	5390802	5390805
45	114202	9.482	1631	2031	373866	364418	5390598	5390595
45	114301	9.326	1107	1514	364358	373651	5390401	5390404
45	114401	9.180	667	1047	373346	364197	5390197	5390195
44	114501	9.022	756	1176	364152	373131	5390001	5390014
44	114601	8.848	180	700	372807	364015	5389805	5389795
44	114701	8.695	7495	7897	363947	372601	5389605	5389608
44	114801	8.539	6980	7429	372291	363801	5389386	5389400
44	114901	8.394	6502	6931	363710	372049	5389205	5389207
44	115001	8.209	5823	6292	371758	363609	5389013	5388989
44	115101	8.076	5339	5751	363528	371549	5388802	5388812
38	115201	11.862	1804	2301	359442	371261	5388612	5388607
39	115301	11.661	4400	4989	359392	371000	5388406	5388404
39	115401	11.394	5117	5709	370684	359340	5388199	5388195
45	115505	11.093	625	1107	359401	370454	5388005	5388004
39	115601	10.840	1307	1741	359392	370198	5387803	5387806
47	115702	9.378	1402	2067	369923	360647	5387603	5387594
47	115704	4.306	150	417	363604	359330	5387604	5387601
39	115801	10.323	2409	2801	359391	369686	5387406	5387406
39	115901	10.056	2865	3287	369382	359362	5387194	5387197
39	116001	9.767	3460	3867	359399	369132	5387005	5387009
40	116101	9.469	817	1221	368836	359400	5386798	5386797
40	116201	9.252	1276	1618	359405	368633	5386608	5386607
40	116301	9.009	1678	2058	368305	359329	5386398	5386397
40	116401	16.726	2348	3068	351399	368065	5386207	5386204
40	116501	16.447	3118	3813	367730	351338	5385997	5385998
40	116601	16.082	3996	4655	351410	367439	5385810	5385806
40	116701	15.772	4704	5326	367151	351424	5385599	5385596
40	116801	15.431	5510	6140	351501	366881	5385409	5385406
40	116901	14.129	6210	6803	366568	352488	5385196	5385196
45	116902	6.101	142	389	357578	351496	5385198	5385199
40	117001	14.805	181	758	351577	366335	5385007	5385008
40	117101	14.472	812	1446	365992	351573	5384800	5384794
40	117201	14.075	1628	2267	351691	365707	5384604	5384606
41	117301	13.920	1394	2363	365467	351692	5384385	5384389
41	117401	13.574	2667	3586	351749	365190	5384206	5384207
41	117501	13.252	3857	4771	364890	351775	5384000	5384001
41	117601	12.930	4816	5706	351837	364631	5383818	5383809
41	117701	12.570	6032	6849	364310	351847	5383606	5383598
41	117801	12.214	6889	7624	351936	364038	5383414	5383402
41	117902	11.863	210	880	363742	351956	5383204	5383196
44	118001	11.536	4385	4887	363446	351958	5382988	5383000
44	118101	11.141	3869	4329	352085	363184	5382783	5382805
44	118201	10.796	3400	3830	362852	352095	5382610	5382594
44	118301	10.502	2723	3190	352178	362631	5382403	5382393
44	118401	10.214	2272	2674	362318	352138	5382200	5382195
42	118501	9.855	3488	3883	362030	352210	5382002	5381998
42	118601	9.497	2771	3118	352313	361781	5381785	5381797
42	118701	9.213	2398	2738	361447	352259	5381592	5381594
42	118801	8.784	2039	2324	352409	361172	5381398	5381401
42	118901	8.474	1727	2007	360881	352427	5381195	5381188

42	119001	8.151	1310	1552	352493	360621	5381000	5381007
42	119101	7.654	1021	1273	360158	352521	5380788	5380798
42	119201	7.219	723	965	352567	359767	5380597	5380609
42	119301	6.765	413	685	359349	352606	5380401	5380396
42	119402	6.307	170	354	352672	358969	5380203	5380211
42	119501	5.827	5660	5852	352708	358521	5380005	5380011
42	119601	5.370	5405	5619	358082	352729	5379797	5379796
44	119701	5.081	1799	1996	352794	357858	5379594	5379606
44	119801	4.829	1575	1757	357624	352810	5379398	5379392
44	119901	4.765	1285	1499	352921	357669	5379200	5379202
44	120001	4.786	1012	1214	357637	352867	5378993	5378992
38	700101	8.003	142	392	351419	353180	5386512	5378723
38	700201	7.527	463	698	353522	353521	5378946	5386461
31	700301	4.517	1231	1388	354458	354452	5404703	5400195
38	700402	7.757	1247	1552	355500	355508	5378708	5386446
31	700501	4.832	1505	1674	355511	355511	5400203	5405027
39	700601	7.468	3882	4176	357511	357511	5378936	5386387
32	700701	7.932	1360	1586	357504	357516	5406191	5398268
39	700801	8.481	3391	3730	359517	359514	5388777	5380316
32	700901	9.193	1764	2015	359511	359514	5398203	5407386
39	701001	7.359	2887	3209	361508	361511	5381522	5388860
34	701101	10.576	7455	7952	360986	360995	5398080	5408621
39	701201	5.946	2493	2735	363518	363511	5388840	5382906
34	701301	9.562	6772	7149	363516	363525	5409728	5400189
39	701401	9.163	1865	2262	365513	365506	5384306	5393444
34	701501	10.764	5866	6405	365507	365514	5400216	5410940
39	701601	7.683	1474	1746	367518	367514	5393380	5385712
34	701701	11.927	5238	5722	367514	367512	5412096	5400201
34	701801	6.477	3820	4121	369519	369518	5386932	5393387
34	701901	13.841	4357	4964	369512	369508	5400189	5413990
34	702001	27.474	2542	3539	371518	371512	5416010	5388606
30	702101	26.118	4485	5454	373516	373517	5416264	5390197
30	702201	24.872	5652	6594	375507	375510	5391734	5416556
34	702301	24.315	933	2165	377508	377508	5393247	5416807
25	702401	14.887	1846	2267	379521	379514	5402168	5417038
25	702501	5.519	2361	2502	381516	381517	5417151	5411637
30	702601	5.157	2464	2621	382497	382497	5417398	5412248
96	120101	3.718	7320	7447	350895	354605	5404207	5404206
96	120201	3.750	7137	7271	354597	350855	5404000	5403999
96	120301	3.723	6948	7085	350892	354607	5403805	5403804
96	120401	3.748	6749	6908	354598	350862	5403599	5403601
96	120501	3.726	6517	6678	350886	354601	5403399	5403406
96	120601	3.747	6284	6459	354591	350857	5403200	5403198
96	120701	3.738	5909	6084	350897	354620	5403004	5403005
96	120801	3.770	5659	5854	354584	350831	5402799	5402803
96	120901	3.878	5302	5592	350894	354611	5402603	5402606
96	121001	3.793	5000	5245	354607	350846	5402399	5402404
96	121101	3.897	4692	4921	350962	354834	5402185	5402207
96	121201	3.798	4180	4452	354610	350842	5402004	5402001
96	121301	3.786	3785	4097	350883	354632	5401802	5401807
96	121401	3.792	3334	3718	354591	350863	5401599	5401598
95	121501	3.759	2085	2360	354597	350872	5401399	5401400
95	121601	3.745	1775	2037	350892	354607	5401202	5401204
95	121701	3.735	1375	1594	354603	350888	5400999	5401001
95	121801	3.764	1102	1327	350878	354614	5400803	5400803
96	121902	3.742	2933	3157	350881	354599	5400599	5400606
96	122002	3.755	2642	2859	354597	350864	5400399	5400398
96	122103	3.778	2315	2579	350882	354633	5400206	5400208
95	122202	3.763	169	401	350886	354621	5400001	5400007
95	122301	3.769	6019	6269	350877	354616	5399803	5399801
95	122401	3.762	5769	5944	354603	350854	5399597	5399601
95	122501	3.775	5484	5716	350874	354621	5399401	5399403
95	122601	3.755	5161	5371	354595	350862	5399201	5399202
95	122701	3.777	4806	5096	350875	354596	5399001	5399005
95	122801	3.753	4378	4562	354600	350870	5398798	5398806
95	122901	3.823	4100	4332	350871	354661	5398600	5398603
95	123001	3.743	3837	4021	354596	350873	5398398	5398395
95	123101	3.756	3522	3784	350884	354605	5398200	5398204

95	123201	3.760	3232	3452	354607	350872	5397998	5397994
95	123301	3.743	2771	3050	350887	354587	5397806	5397804
95	123401	3.752	2459	2686	354601	350874	5397606	5397594
95	123502	3.796	2101	2398	350886	354645	5397406	5397401
99	720101	8.108	647	1106	351008	351010	5396599	5404658
99	720201	7.875	1287	1784	353017	353017	5404403	5396581
99	720301	7.885	1975	2374	354449	354452	5396600	5404423

Summary for Flights : 25 to 99

Lines : 100101 to 720301

Number of survey lines :	273
Number of (well defined) lines :	273
Total number of gaps in lines are :	0
Total length of gaps is :	0.000 km
Total distance is :	3038.087 km
Average Line Length is :	11.129 km

Line Channel Report
Mt Read Area D

Flights : 1 to 91 Lines : 100101 to 706401

Flight Line	Dist	StFID	EndFID	StartX	EndX	StartY	EndY
14 100101	8.232	4582	4764	404097	395872	5413367	5413365
14 100201	8.207	4815	4995	395905	404105	5413177	5413174
14 100301	8.256	5044	5228	404101	395851	5412983	5412970
14 100401	8.199	5288	5468	395912	404105	5412774	5412776
14 100501	8.221	5514	5698	404096	395881	5412577	5412569
14 100601	8.226	5758	5945	395916	404136	5412380	5412379
14 100701	8.255	5995	6189	404091	395844	5412171	5412168
14 100801	8.269	6340	6525	395901	404163	5411981	5411979
14 100901	8.230	6579	6779	404082	395859	5411773	5411766
14 101001	8.288	6824	7014	395903	404184	5411578	5411578
14 101101	8.240	7052	7234	404065	395832	5411372	5411366
14 101201	8.283	7280	7455	395918	404194	5411174	5411179
14 101301	8.179	7499	7681	404072	395899	5410970	5410967
14 101402	8.221	172	352	395897	404112	5410778	5410775
15 101501	8.187	741	940	404101	395921	5410563	5410573
15 101601	8.250	990	1179	395911	404154	5410377	5410376
15 101701	8.216	1231	1425	404086	395876	5410172	5410172
15 101801	8.180	1482	1666	395892	404064	5409976	5409979
15 101901	8.211	1728	1920	404097	395893	5409768	5409771
15 102001	8.223	2106	2288	395896	404113	5409576	5409573
15 102101	8.145	2329	2523	404073	395935	5409374	5409370
15 102201	8.098	2571	2748	395898	403991	5409176	5409176
15 102301	8.020	2796	2988	403877	395865	5408968	5408966
15 102401	7.887	3061	3243	395914	403794	5408785	5408774
15 102501	7.799	3293	3483	403677	395886	5408567	5408572
15 102602	7.690	3735	3914	395913	403598	5408375	5408378
15 102701	7.571	3956	4140	403438	395874	5408171	5408169
15 102802	7.500	4304	4476	395911	403404	5407976	5407976
15 102901	7.371	4519	4704	403241	395877	5407774	5407771
15 103001	7.269	4754	4924	395908	403171	5407576	5407578
15 103101	7.214	4973	5150	403047	395840	5407368	5407369
15 103201	7.101	5201	5366	395902	402996	5407177	5407181
15 103301	6.973	5550	5722	402830	395863	5406972	5406967
15 103401	6.843	5771	5921	395918	402756	5406778	5406773
15 103501	6.793	5972	6149	402599	395813	5406566	5406572
15 103601	6.630	6195	6342	395901	402526	5406376	5406376
15 103701	6.604	6387	6557	402402	395804	5406172	5406170
15 103801	6.508	6606	6751	395900	402403	5405975	5405971
15 103902	6.375	157	316	402210	395842	5405771	5405768
15 104001	6.384	362	508	395931	402310	5405574	5405573
15 104101	6.541	547	713	402417	395882	5405368	5405369
15 104201	6.700	771	923	395891	402585	5405176	5405174
15 104301	6.823	950	1129	402656	395841	5404983	5404969
15 104401	7.155	1163	1337	395660	402807	5404774	5404769
16 104501	7.555	326	523	402884	395337	5404570	5404570
16 104601	7.834	569	761	395186	403012	5404379	5404377
16 104701	8.149	797	1012	403077	394937	5404171	5404167
16 104801	8.562	1054	1269	394726	403279	5403967	5403976
16 104901	8.868	1317	1549	403328	394469	5403773	5403769
16 105001	9.194	1591	1801	394248	403435	5403577	5403574
16 105101	9.587	1945	2180	403512	393935	5403376	5403369
16 105201	9.844	2218	2442	393796	403632	5403172	5403168
16 105301	10.215	2479	2726	403750	393543	5402970	5402968
16 105401	10.523	2777	3016	393321	403834	5402774	5402775
16 105501	10.920	3053	3315	403981	393072	5402578	5402569
16 105601	11.284	3366	3627	392838	404112	5402374	5402374
16 105701	11.516	3804	4081	404094	392588	5402168	5402171
16 105801	11.753	4142	4411	392362	404104	5401981	5401972
16 105901	12.063	4457	4749	404098	392046	5401770	5401773
16 106001	12.242	4797	5076	391884	404116	5401577	5401576
16 106101	12.454	5124	5421	404100	391656	5401371	5401363
16 106202	12.756	5616	5908	391428	404173	5401172	5401177

16	106301	12.943	5968	6282	404094	391163	5400975	5400968
16	106401	13.212	6330	6645	390949	404148	5400773	5400769
16	106501	13.468	6693	7025	404092	390637	5400576	5400573
16	106601	13.648	7080	7397	390506	404141	5400374	5400375
17	106701	13.889	1178	1525	404120	390248	5400183	5400167
17	106801	14.107	1571	1925	390024	404117	5399986	5399974
17	106901	14.373	1979	2328	404104	389744	5399775	5399768
17	107001	14.640	2519	2889	389541	404166	5399572	5399578
17	107101	14.870	2933	3320	404108	389256	5399370	5399367
17	107201	15.089	3382	3799	389085	404154	5399171	5399173
17	107301	15.288	3850	4332	404099	388835	5398971	5398972
17	107401	15.538	4491	4948	388603	404118	5398774	5398779
17	107501	15.764	4991	5487	404096	388356	5398574	5398568
17	107601	15.984	5532	6023	388136	404080	5398370	5398317
17	107701	16.197	6194	6663	404100	387925	5398171	5398174
17	107801	16.463	6696	7163	387673	404110	5397948	5397975
17	107901	16.444	7216	7710	403834	387414	5397772	5397772
17	108001	16.411	7912	8384	387222	403610	5397576	5397575
17	108101	16.453	8440	8915	403355	386923	5397364	5397370
17	108201	16.454	8944	9491	386717	403136	5397152	5397177
18	108301	16.461	5537	6164	402862	386437	5396971	5396969
18	108401	16.423	6209	6921	386242	402615	5396771	5396777
18	108502	16.383	221	860	402357	386013	5396574	5396571
18	108601	16.391	899	1578	385793	402135	5396376	5396375
18	108701	16.339	1782	2364	401844	385539	5396174	5396172
18	108801	16.382	2412	3074	385302	401640	5395985	5395974
18	108901	16.351	3265	3899	401348	385036	5395772	5395768
18	109001	16.330	3943	4550	384841	401131	5395576	5395577
18	109101	16.266	4743	5275	400835	384595	5395371	5395366
18	109201	16.308	5317	5829	384369	400650	5395173	5395172
20	109301	16.307	1818	2328	400337	384055	5394981	5394975
20	109401	16.574	2379	2869	383890	400435	5394768	5394783
20	109501	16.096	3220	3706	399800	383728	5394579	5394577
20	109601	16.179	3751	4203	383443	399602	5394380	5394371
20	109701	16.189	4396	4888	399321	383158	5394173	5394176
20	109801	16.216	4939	5441	382952	399142	5393982	5393984
20	109902	16.185	2226	2718	398840	382680	5393781	5393772
20	110001	11.718	2775	3087	382469	394173	5393580	5393579
22	110101	11.804	465	792	393978	382189	5393371	5393377
22	110201	11.885	824	1154	381990	393859	5393169	5393178
22	110301	12.015	1400	1752	393722	381724	5392975	5392971
22	110401	12.177	1792	2152	381528	393688	5392771	5392784
22	110501	12.285	2219	2596	393515	381249	5392577	5392576
22	110601	12.328	2778	3165	381094	393401	5392374	5392380
22	110701	12.511	3222	3631	393292	380803	5392177	5392180
22	110802	12.660	3763	4150	380587	393227	5391981	5391981
22	110901	12.737	4344	4741	393035	380320	5391776	5391774
22	111001	12.857	4805	5202	380127	392966	5391583	5391584
22	111101	16.975	5258	5767	392797	375849	5391374	5391382
22	111201	16.837	5980	6487	375893	392704	5391181	5391186
22	111301	16.768	6546	7048	392578	375834	5390977	5390981
22	111401	16.673	7119	7599	375883	392533	5390783	5390780
22	111501	16.513	1064	1538	392363	375872	5390572	5390578
22	111601	16.270	1619	2074	375900	392150	5390383	5390379
23	111701	16.233	874	1413	375905	392102	5390189	5390168
23	111801	16.186	1470	2007	392025	375870	5389969	5389977
23	111901	16.106	2122	2689	375887	391958	5389790	5389781
23	112001	15.944	2739	3308	391782	375872	5389569	5389577
23	112101	15.845	3343	3928	375912	391719	5389370	5389384
23	112201	15.748	4028	4593	391559	375846	5389181	5389172
23	112302	15.634	115	637	391431	375830	5389006	5388978
23	112401	15.530	667	1189	375880	391379	5388791	5388788
23	112501	15.394	1231	1763	391188	375826	5388576	5388574
23	112601	15.236	1879	2411	375913	391116	5388378	5388372
23	112701	15.129	2447	2951	390967	375867	5388176	5388178
23	112801	15.039	2986	3503	375901	390907	5387973	5387988
23	112901	14.916	3661	4146	390750	375864	5387770	5387768
23	113002	14.844	4255	4750	375882	390695	5387572	5387587

23	113101	14.710	4909	5401	390495	375813	5387383	5387381
21	113202	14.559	1226	1738	375902	390424	5387188	5387182
21	113301	14.441	2090	2606	390284	375878	5386980	5386970
21	113401	14.336	1484	2036	375900	390196	5386784	5386784
21	113502	11.960	945	1342	387790	375855	5386583	5386568
21	113503	5.478	1815	2047	390042	384582	5386581	5386577
20	113601	14.083	1381	1803	375902	389962	5386386	5386383
20	113701	13.954	872	1311	389811	375880	5386183	5386181
20	113801	13.835	388	807	375904	389718	5385978	5385978
55	113902	13.766	558	1242	375896	389614	5385780	5385783
23	114001	13.672	5491	6006	375906	389540	5385585	5385585
24	114101	13.541	134	616	375896	389394	5385380	5385433
24	114201	13.410	7110	7667	389245	375877	5385177	5385177
24	114301	13.317	6589	7064	375895	389175	5384983	5384972
24	114401	13.176	6058	6550	389005	375862	5384769	5384773
24	114501	13.110	5426	5886	375886	388962	5384581	5384582
24	114601	12.930	4920	5390	388765	375867	5384373	5384376
24	114701	12.814	4446	4881	375902	388684	5384183	5384179
24	114801	12.738	3868	4310	388531	375820	5383970	5383971
24	114901	12.662	3404	3821	375897	388528	5383792	5383789
24	115001	11.424	2904	3323	388307	376908	5383571	5383571
24	115101	11.380	732	1159	388188	376836	5383375	5383371
24	115201	11.282	1257	1659	376889	388145	5383182	5383185
24	115301	10.842	1860	2342	387666	376860	5383016	5382972
24	115401	11.036	2378	2808	376879	387886	5382792	5382774
24	115501	10.956	2878	3358	387745	376826	5382569	5382569
24	115601	10.804	3512	3918	376881	387647	5382397	5382389
26	115701	10.696	476	843	387520	376846	5382179	5382178
26	115801	10.568	921	1293	376883	387430	5381982	5381985
26	115901	10.409	1474	1808	387262	376871	5381779	5381772
26	116001	10.264	1863	2199	376880	387126	5381585	5381581
26	116101	10.451	2249	2633	387309	376886	5381397	5381373
26	116201	10.464	2689	3083	376872	387311	5381183	5381186
26	116301	10.482	3271	3663	387297	376837	5380979	5380978
26	116401	10.450	3717	4066	376879	387309	5380781	5380787
26	116501	10.433	4128	4467	387293	376878	5380578	5380575
26	116601	10.436	4515	4857	376880	387299	5380384	5380383
26	116701	10.437	5017	5367	387290	376873	5380179	5380176
26	116801	10.472	5418	5735	376884	387337	5379982	5379981
26	116901	10.430	5800	6127	387285	376872	5379774	5379776
26	117001	10.456	6176	6493	376885	387301	5379580	5379585
26	117101	10.481	6654	6981	387292	376831	5379374	5379376
26	117201	10.633	7033	7368	376880	387322	5379179	5379183
26	117301	10.599	7427	7814	387287	376848	5378970	5378968
26	117401	16.682	198	665	370724	387378	5378784	5378782
26	117501	16.998	727	1349	387305	370388	5378576	5378576
29	117602	17.409	4691	5325	370121	387333	5378396	5378379
29	117701	17.698	5370	6095	387300	369748	5378169	5378158
55	117802	17.916	1552	2491	387306	369458	5377978	5377977
55	117901	18.177	2706	3551	369190	387310	5377779	5377781
55	118001	18.460	3607	4396	387297	368884	5377578	5377578
55	118101	18.829	4606	5353	368569	387353	5377379	5377383
55	118201	19.116	5419	6136	387305	368232	5377177	5377177
55	118301	19.405	6329	7101	367956	387310	5376980	5376978
55	118401	19.728	7152	7941	387305	367627	5376781	5376777
56	118501	20.048	568	1372	367321	387317	5376578	5376582
56	118601	20.348	1432	2246	387300	366998	5376381	5376374
56	118701	20.701	2403	3245	366705	387336	5376186	5376185
56	118801	21.043	3330	4072	387298	366308	5375981	5375975
56	118901	21.046	4256	5126	366338	387324	5375778	5375781
56	119001	6.463	5219	5509	387295	380853	5375586	5375581
56	119002	12.912	5690	6138	379164	366277	5375578	5375577
57	119003	6.719	1258	1557	383642	376944	5375583	5375575
57	119101	17.234	478	1207	366226	383410	5375385	5375377
57	119102	11.947	1594	2156	376993	388900	5375381	5375378
57	119201	22.854	2360	3562	388894	366132	5375176	5375176
58	119301	22.867	292	1506	366132	388904	5374981	5374976
56	119401	22.887	231	1125	366079	388902	5374781	5374777

56	119501	23.006	1185	2119	388906	365980	5374584	5374579
58	119601	23.171	1732	2754	388903	365969	5374387	5374381
1	119702	23.297	3342	4404	365933	388955	5374179	5374179
1	119802	23.914	4626	5728	388882	365820	5373980	5373980
1	119903	23.748	5920	6922	365802	388949	5373784	5373778
1	120002	23.616	7130	8147	388883	365720	5373581	5373577
69	120102	6.200	2247	2418	334903	341097	5373376	5373378
58	120201	23.503	2611	3638	365704	388937	5373377	5373378
69	120302	6.963	2481	2635	341809	334850	5373182	5373179
65	120402	1.531	3053	3117	352749	354275	5373179	5373181
58	120501	23.353	3917	4829	388901	365651	5373182	5373177
69	120602	7.629	2707	2919	334910	342530	5372977	5372980
65	120703	2.854	2788	2947	354412	351570	5372982	5372977
59	120801	23.417	220	1307	365607	388921	5372947	5372977
69	120902	8.237	2998	3180	343232	335001	5372778	5372778
65	121002	4.141	2409	2650	350443	354561	5372787	5372787
59	121101	23.482	1510	2462	388900	365484	5372779	5372778
69	121202	8.712	3397	3626	335230	343934	5372580	5372583
65	121302	5.511	2005	2287	354717	349228	5372584	5372579
59	121401	23.439	2665	3584	365525	388905	5372580	5372579
69	121503	9.326	4037	4234	344674	335355	5372375	5372376
69	121605	6.740	1319	1559	354858	348130	5372379	5372380
59	121701	23.552	3772	4719	388903	365414	5372383	5372379
65	121805	19.536	283	990	355041	335553	5372177	5372178
59	121901	23.606	4936	5883	365394	388924	5372189	5372181
65	122004	19.549	1057	1789	335721	355223	5371990	5371985
59	122101	7.453	6102	6424	388904	381475	5371985	5371977
59	122102	19.649	149	876	384930	365331	5371985	5371984
65	122202	19.515	3378	4055	355323	335850	5371775	5371780
60	122302	23.707	3047	4006	365276	388899	5371779	5371779
65	122401	19.499	4100	4782	336053	355508	5371593	5371577
60	122501	23.730	4253	5255	388885	365217	5371581	5371576
65	122601	19.470	5014	5673	355656	336229	5371380	5371382
60	122701	23.788	5437	6377	365206	388933	5371380	5371376
65	122801	19.475	5731	6405	336383	355811	5371187	5371181
60	122901	23.852	6610	7632	388879	365095	5371184	5371181
65	123002	19.480	158	820	355941	336501	5370981	5370976
66	123101	23.931	247	1454	365094	388909	5370983	5370982
65	123201	19.406	885	1521	336717	356087	5370786	5370778
66	123301	23.999	1697	2751	388888	364979	5370783	5370777
65	123401	19.487	1728	2380	356270	336833	5370571	5370581
66	123501	24.084	7379	8486	364983	388960	5370582	5370579
65	123601	19.444	2443	3065	337064	356466	5370381	5370384
68	123701	18.059	5962	6806	364933	382912	5370384	5370408
70	123702	3.408	261	428	380354	383748	5370365	5370381
66	123801	19.339	2973	3512	356584	337272	5370178	5370164
2	123903	18.920	9879	10716	364874	383739	5370182	5370181
66	124001	19.364	3637	4146	337393	356734	5369985	5369979
71	124103	18.966	342	1164	364818	383714	5369980	5369981
66	124201	19.345	4294	4808	356882	337561	5369776	5369776
72	124303	19.000	608	1498	364773	383711	5369781	5369777
66	124401	19.341	4867	5357	337740	357062	5369581	5369581
72	124502	19.100	1725	2522	383703	364651	5369581	5369576
66	124601	19.346	5494	6011	357198	337879	5369379	5369377
72	124702	19.095	2882	3808	364675	383707	5369380	5369377
66	124801	19.371	6657	7184	338092	357437	5369181	5369178
73	124901	19.185	201	1078	364610	383737	5369184	5369180
67	125001	19.371	11934	12446	357509	338159	5368981	5368976
2	125102	19.247	11067	11942	383698	364510	5368984	5368979
67	125201	14.379	12498	12841	338399	352765	5368779	5368779
67	125202	11.837	209	549	345852	357674	5368776	5368784
77	125301	19.204	3648	4437	364524	383680	5368779	5368781
67	125401	19.360	608	1085	357824	338483	5368579	5368575
77	125501	14.985	4685	5353	383689	368748	5368578	5368576
78	125503	11.674	4845	5284	376106	364459	5368579	5368578
67	125601	19.293	1139	1654	338764	358035	5368382	5368380
78	125701	19.400	5348	6160	364413	383755	5368380	5368379
67	125801	19.231	1818	2327	358097	338889	5368175	5368179

70	125901	7.921	5427	5704	364353	372254	5368178	5368194
70	126001	8.510	6029	6502	375255	383716	5368183	5368177
67	126101	19.207	2415	2921	339080	358266	5367976	5367980
70	126201	7.852	5086	5376	372102	364271	5367966	5367982
78	126302	8.541	4224	4682	383705	375199	5367976	5367979
67	126402	19.241	3116	3628	358438	339216	5367784	5367780
70	126501	7.814	4781	5040	364242	372039	5367789	5367789
78	126603	8.533	556	989	383684	375188	5367778	5367780
67	126701	19.281	3684	4206	339399	358658	5367578	5367584
70	126801	7.741	4454	4726	371893	364167	5367579	5367579
78	126901	8.605	1263	1710	375179	383750	5367583	5367584
67	127001	19.284	4255	4777	358746	339484	5367376	5367375
70	127101	7.676	3989	4258	364151	371809	5367381	5367385
78	127201	8.580	1765	2227	383678	375132	5367380	5367380
67	127301	19.261	5066	5595	339724	358963	5367178	5367177
70	127401	7.561	3664	3936	371632	364090	5367179	5367180
78	127501	8.642	2433	2872	375131	383739	5367182	5367183
67	127601	9.182	5651	5935	359084	349918	5366980	5366982
70	127701	7.586	3330	3612	364061	371628	5366984	5366983
78	127801	8.634	2950	3354	383694	375089	5366975	5366978
67	127901	9.319	5990	6257	350012	359317	5366773	5366782
70	128001	7.549	3001	3280	371501	363969	5366773	5366777
78	128102	8.652	272	667	375094	383715	5366782	5366782
67	128201	9.293	6396	6661	359371	350094	5366581	5366576
70	128301	7.472	2695	2959	363957	371413	5366582	5366583
78	128401	8.669	714	1096	383679	375034	5366582	5366584
67	128501	9.392	6722	6982	350238	359620	5366377	5366381
70	128601	7.467	2237	2491	371295	363842	5366375	5366381
78	128701	8.732	1153	1498	375040	383747	5366381	5366379
67	128801	9.435	7020	7267	359684	350260	5366186	5366177
70	128901	7.667	215	505	363600	371246	5366181	5366178
78	129002	8.707	1651	2030	383681	374998	5366183	5366180
67	129101	9.418	7334	7566	350457	359865	5365971	5365981
69	129201	7.848	1671	1938	371087	363253	5365990	5365978
78	129301	8.721	2111	2490	374988	383683	5365983	5365983
69	129402	20.479	4771	5438	350573	371018	5365783	5365779
78	129501	8.756	2555	2957	383691	374963	5365783	5365784
69	129601	20.286	5602	6192	370886	350629	5365586	5365576
78	129701	8.751	3209	3588	374941	383667	5365584	5365582
69	129801	20.088	6251	6883	350786	370839	5365379	5365377
78	129902	8.819	3650	4090	383692	374907	5365376	5365381
69	130004	19.911	193	815	370688	350807	5365181	5365181
13	130001	19.122	12953	13581	370801	351717	5365185	5365182
78	130101	8.828	4156	4588	374893	383690	5365199	5365184
69	130203	19.625	871	1475	351043	370637	5364983	5364985
13	130202	19.825	11952	12658	350921	370705	5364980	5364985
78	130302	8.851	4732	5179	383671	374856	5364982	5364979
70	130402	19.468	623	1268	370499	351072	5364789	5364779
13	130401	19.584	11117	11702	370583	351029	5364775	5364779
78	130502	8.908	5238	5635	374845	383725	5364785	5364781
70	130602	19.224	1443	2115	351257	370439	5364581	5364578
13	130601	19.386	10190	10877	351143	370491	5364578	5364583
78	130702	8.964	5687	6127	383700	374773	5364582	5364582
13	130801	19.202	9439	10078	370394	351228	5364377	5364376
78	130902	8.939	166	590	383680	374773	5364381	5364382
12	131001	19.007	12598	13303	351362	370325	5364182	5364182
78	131102	8.974	641	1008	374776	383726	5364178	5364185
12	131201	18.784	11879	12494	370179	351426	5363979	5363977
79	131302	8.979	1155	1552	374749	383705	5363984	5363981
12	131401	18.586	10916	11636	351605	370148	5363778	5363782
79	131502	9.023	1620	2062	383701	374709	5363777	5363779
12	131601	18.341	10222	10819	369972	351663	5363576	5363579
79	131702	9.031	2107	2527	374707	383709	5363580	5363583
11	131801	18.196	10168	10840	351809	369969	5363381	5363382
79	131902	9.082	2709	3106	383690	374633	5363375	5363384
11	132001	17.973	9376	10021	369809	351872	5363178	5363178
79	132102	9.077	3159	3518	374704	383744	5363179	5363186
11	132201	17.743	8708	9330	352044	369751	5362979	5362977

79	132302	6.470	3636	3908	381124	374670	5362978	5362979
11	132401	17.493	7935	8564	369593	352136	5362779	5362781
79	132502	6.536	3950	4177	374707	381230	5362780	5362777
11	132601	17.796	7192	7841	352264	370019	5362578	5362579
79	132702	6.469	4218	4435	381139	374680	5362580	5362581
11	132801	19.093	6242	6996	371182	352320	5362379	5362382
79	132902	6.421	4477	4674	374760	381170	5362379	5362379
11	133001	19.019	5399	6088	352482	371200	5362180	5362180
79	133102	6.379	4717	4936	381141	374773	5362178	5362178
11	133201	19.368	4541	5325	371187	352595	5361981	5361975
79	133302	6.476	4976	5211	374783	381246	5361983	5361982
8	133401	19.380	4266	5165	352706	371240	5361783	5361778
79	133502	6.325	5353	5558	381049	374736	5361777	5361775
8	133601	19.692	3085	4168	371195	352807	5361577	5361582
79	133703	6.350	5670	5869	374840	381178	5361583	5361586
7	133802	19.732	23657	24539	352922	371228	5361388	5361378
79	133902	6.344	5912	6146	381174	374841	5361380	5361377
7	134001	19.127	22501	23400	371205	353021	5361178	5361178
79	134102	6.320	6192	6398	374865	381173	5361184	5361185
7	134201	18.528	21439	22226	353155	371020	5360984	5360989
79	134302	6.148	6448	6647	381032	374893	5360978	5360981
7	134401	17.755	20437	21257	370585	353260	5360779	5360780
79	134502	6.224	6686	6870	374937	381150	5360784	5360783
7	134601	17.161	19429	20161	353375	370244	5360579	5360576
79	134702	6.298	7035	7267	381169	374883	5360581	5360579
7	134801	16.362	18621	19263	369771	353484	5360384	5360382
79	134902	6.250	7312	7516	374946	381185	5360382	5360384
7	135001	15.840	17960	18545	353603	369410	5360177	5360178
79	135102	6.218	7563	7780	381155	374948	5360175	5360180
7	135201	15.342	17177	17726	368991	353689	5359982	5359981
79	135302	6.275	7830	8037	375005	381271	5359984	5359984
7	135401	14.829	16555	17079	353838	368636	5359778	5359780
79	135501	6.322	8082	8306	381299	374989	5359779	5359778
7	135602	14.271	15889	16341	368174	353925	5359582	5359581
79	135702	6.386	8353	8598	374999	381370	5359575	5359579
7	135801	13.754	15202	15749	354067	367786	5359377	5359377
79	135902	6.456	8779	9063	381433	374996	5359374	5359378
7	136001	13.531	14582	15106	367393	353895	5359175	5359180
79	136102	6.351	9109	9364	374996	381329	5359178	5359178
6	136201	13.479	16995	17470	353554	367008	5358978	5358984
79	136301	6.573	9410	9672	381551	374994	5358975	5358977
5	136403	13.491	7300	7852	366595	353138	5358782	5358778
80	136503	6.667	12352	12654	374997	381638	5358774	5358784
5	136602	13.461	8118	8673	352776	366206	5358582	5358578
80	136703	6.722	207	521	381698	375000	5358577	5358570
5	136802	13.406	8776	9316	365788	352413	5358381	5358378
80	136902	6.757	571	843	375090	381825	5358386	5358385
5	137001	13.441	9540	10037	352030	365442	5358187	5358177
80	137102	6.875	902	1171	381840	374987	5358193	5358175
5	137201	13.347	10144	10641	364980	351660	5357981	5357982
80	137401	6.943	1349	1641	375004	381915	5357979	5357981
6	137402	13.620	882	1391	364589	350997	5357781	5357773
80	137501	7.015	1686	1961	381970	374978	5357765	5357777
5	137602	13.320	10839	11359	350906	364196	5357579	5357579
80	137702	7.074	1999	2296	374995	382047	5357592	5357584
5	137801	13.321	11589	12134	363796	350509	5357381	5357378
80	137902	7.146	2369	2651	382102	374978	5357386	5357378
5	138001	13.280	12211	12811	350152	363392	5357181	5357182
80	138103	7.141	3231	3556	382093	374979	5357182	5357178
6	138202	13.284	1891	2508	349782	363022	5356978	5356991
80	138302	7.119	3918	4230	382093	375000	5356979	5356974
6	138401	12.936	2624	3269	362589	349704	5356779	5356783
80	138502	7.087	4304	4636	375019	382077	5356789	5356785
6	138601	12.488	3703	4380	349782	362213	5356578	5356585
80	138702	7.113	4714	5026	382034	374946	5356579	5356584
6	138801	12.019	4510	5092	361794	349816	5356379	5356381
80	138902	7.034	5203	5510	375003	382012	5356384	5356382
6	139001	11.607	5164	5806	349901	361455	5356182	5356181

80	139102	6.998	5569	5871	381959	374988	5356188	5356173
6	139201	11.083	6067	6659	360988	349950	5355977	5355981
80	139302	6.981	5910	6224	375002	381956	5355985	5355981
6	139401	10.619	6781	7300	350025	360607	5355779	5355780
6	139502	10.120	9488	9998	360178	350095	5355581	5355578
80	139601	6.945	6298	6640	381903	374993	5355789	5355777
80	139702	6.944	7321	7648	381875	374959	5355587	5355572
6	139801	9.674	10054	10516	350149	359790	5355379	5355380
80	139902	6.898	7685	7990	375004	381873	5355396	5355383
6	140001	9.240	10632	11094	359398	350190	5355181	5355180
80	140102	6.837	321	636	381798	374989	5355181	5355175
6	140201	8.772	11275	11705	350264	359007	5354980	5354977
80	140302	6.811	674	979	375006	381792	5354955	5354983
6	140401	8.289	11792	12127	358602	350334	5354780	5354780
80	140502	6.787	1067	1377	381737	374977	5354785	5354774
6	140601	7.808	12199	12490	350417	358210	5354579	5354579
81	140701	6.712	3520	3911	375015	381689	5354583	5354584
79	140801	7.124	215	454	357694	350584	5354378	5354380
81	140902	6.807	3984	4333	381662	374891	5354378	5354381
6	141001	6.954	12683	12967	357404	350467	5354178	5354181
81	141102	6.942	4376	4740	374747	381649	5354170	5354189
6	141201	6.455	13206	13468	350584	357023	5353982	5353979
81	141302	6.984	4796	5150	381596	374649	5353979	5353983
6	141401	5.977	13567	13786	356582	350617	5353784	5353780
81	141502	7.066	5318	5627	374527	381568	5353774	5353789
6	141601	5.527	13860	14047	350715	356232	5353582	5353584
81	141702	7.197	5692	6009	381516	374346	5353579	5353584
6	141801	5.057	14123	14285	355788	350739	5353378	5353381
81	141902	7.286	6041	6368	374273	381533	5353380	5353388
6	142001	4.606	14363	14512	350846	355446	5353182	5353181
82	142103	7.344	1156	1473	374168	381490	5353181	5353184
6	142201	4.277	14604	14733	354997	350725	5352982	5352978
81	142302	7.417	276	558	374057	381453	5352987	5352985
6	142401	3.689	14934	15051	350944	354628	5352780	5352779
82	142505	7.496	1542	1817	381393	373912	5352781	5352778
6	142601	3.218	15115	15209	354193	350979	5352578	5352581
82	142702	7.602	1874	2224	373813	381388	5352584	5352576
6	142801	2.740	15273	15350	351081	353818	5352382	5352379
82	142902	7.600	2296	2587	381318	373735	5352385	5352378
6	143001	2.231	15429	15494	353378	351150	5352183	5352179
82	143102	7.763	2816	3195	373571	381310	5352180	5352181
6	143201	1.805	15552	15606	351214	353017	5351983	5351979
91	143302	7.833	1430	1772	381248	373436	5351977	5351978
6	143401	1.366	15670	15709	352580	351215	5351781	5351778
89	143402	7.904	693	1112	381219	373343	5351781	5351777
83	143502	8.038	997	1407	373235	381242	5351583	5351582
6	143601	0.921	15769	15796	351325	352245	5351583	5351579
88	143602	8.132	2447	2882	373099	381200	5351381	5351387
83	143701	8.293	1666	2008	381187	372912	5351174	5351179
88	143801	8.583	3050	3430	381311	372753	5350973	5350981
88	143901	8.732	3643	4068	372731	381435	5350782	5350783
88	144001	8.987	4118	4503	381520	372556	5350575	5350580
88	144101	16.874	4548	5346	372480	389300	5350378	5350376
88	144201	16.917	5596	6373	389303	372438	5350178	5350179
88	144301	16.906	6732	7479	372476	389327	5349977	5349983
88	144402	16.859	395	1189	389298	372495	5349777	5349779
89	144502	16.860	1318	2097	372498	389301	5349583	5349585
89	144601	16.941	2165	3049	389302	372459	5349376	5349371
89	144701	16.863	3281	4045	372488	389293	5349179	5349178
89	144801	16.896	4311	5038	389292	372441	5348980	5348976
89	144901	16.925	5089	5814	372486	389363	5348781	5348781
89	145002	16.917	213	953	389284	372431	5348579	5348574
89	145102	16.901	1134	1901	372499	389341	5348382	5348381
89	145201	16.836	1951	2675	389293	372500	5348176	5348176
90	145301	16.918	5142	5952	372470	389329	5347980	5347978
90	145402	16.926	253	1033	372474	389347	5347779	5347781
90	145501	16.918	1095	2022	389295	372452	5347583	5347581
90	145601	16.874	2243	3072	372491	389307	5347379	5347380

90	145701	16.902	3129	3923	389305	372456	5347176	5347176
90	145801	16.871	4143	4783	372478	389308	5346985	5346983
91	145901	16.901	2024	2674	372479	389344	5346783	5346786
91	146001	16.858	2720	3367	389294	372475	5346574	5346580
8	146102	16.953	5546	6166	372474	389388	5346381	5346381
2	146201	16.854	12601	13226	372472	389291	5346182	5346184
2	146301	16.842	162	766	389273	372463	5345979	5345982
2	146401	16.942	840	1442	372476	389384	5345781	5345782
2	146501	16.856	1724	2363	389281	372465	5345578	5345582
3	146601	11.663	377	953	372472	384092	5345378	5345374
4	146701	11.701	428	1003	372468	384113	5345182	5345183
4	146801	11.678	1193	1750	384077	372440	5344980	5344979
4	146901	11.588	1926	2457	372484	384036	5344784	5344783
4	147001	11.667	2520	2962	384090	372452	5344580	5344577
4	147101	11.668	3268	3812	372491	384097	5344379	5344380
4	147201	11.660	3865	4450	384070	372479	5344174	5344178
6	147302	11.737	345	970	372482	384120	5343983	5343981
6	147401	11.643	1179	1656	384060	372447	5343777	5343781
5	147501	11.677	386	918	372481	384114	5343583	5343579
5	147601	11.629	1130	1714	384045	372459	5343379	5343375
6	147701	11.607	1822	2326	372485	384055	5343183	5343181
8	147802	11.599	6425	6895	384053	372482	5342978	5342978
6	147901	11.649	2798	3260	384058	372438	5342780	5342776
6	148001	11.660	3320	3850	372477	384079	5342573	5342581
6	148101	11.677	4060	4647	384045	372411	5342378	5342377
6	148201	11.654	4698	5215	372487	384103	5342181	5342186
6	148301	11.731	5393	5890	384022	372438	5341972	5341976
6	148401	7.953	5935	6167	372503	380445	5341783	5341784
13	148402	2.725	7068	7185	381547	384036	5341602	5341777
6	148501	8.277	6192	6484	380611	372410	5341677	5341576
13	148503	2.394	6954	7061	384031	381645	5341577	5341572
14	148604	2.465	714	844	384033	381582	5341385	5341373
15	148605	1.799	2499	2601	380561	378794	5341338	5341372
13	148701	2.451	6442	6552	381511	383800	5341102	5341363
15	148703	1.858	2355	2477	378632	380473	5341181	5341212
13	148801	2.271	6306	6418	383890	381647	5340873	5340971
15	148802	1.529	2681	2768	378732	380237	5340984	5340948
14	148901	2.312	1203	1330	384002	381703	5340782	5340777
15	148903	0.993	2085	2140	378707	379696	5340787	5340781
14	149001	2.533	1354	1564	381586	384065	5340632	5340583
15	149002	1.009	1897	1961	378769	379757	5340585	5340646
14	149101	2.776	1605	1777	384013	381251	5340377	5340377
15	149102	1.177	1780	1849	379858	378766	5340344	5340382
14	149201	2.971	1797	2007	381131	384042	5340246	5340185
15	149202	1.032	1672	1754	378734	379752	5340180	5340211
14	149301	2.724	2412	2567	384001	381290	5339977	5339963
15	149302	0.947	1546	1623	379557	378775	5339932	5339978
14	149401	3.101	2585	2774	381106	384019	5339862	5339784
15	149402	0.844	1435	1510	378574	379409	5339779	5339786
14	149502	3.878	2823	3039	384007	380173	5339574	5339462
15	149503	0.595	1357	1402	379397	378824	5339538	5339577
13	149601	4.188	473	720	380007	384014	5339240	5339383
15	149602	0.518	1284	1331	378783	379295	5339371	5339385
13	149702	3.933	234	466	383994	380084	5339181	5339197
15	149703	0.521	1210	1249	379301	378818	5339137	5339178
13	149801	3.660	7426	7651	383997	380357	5338979	5338984
15	149802	0.280	1157	1176	378895	379173	5338985	5338984
12	149901	5.756	12182	12474	383995	378767	5338784	5338774
12	150001	5.395	11821	12115	378729	383988	5338582	5338583
6	150101	5.395	6848	7170	378646	384009	5338380	5338384
6	150201	5.505	7237	7604	383985	378515	5338185	5338176
6	150301	5.564	7665	8012	378479	384010	5337981	5337985
6	150401	5.628	8206	8518	383979	378371	5337776	5337778
6	150501	5.699	8576	8891	378305	383981	5337578	5337587
6	150601	5.779	8949	9199	383965	378200	5337377	5337376
6	150701	5.869	9255	9520	378137	383987	5337183	5337187
6	150801	5.951	9576	9858	383955	378025	5336983	5336974
6	150901	6.032	9997	10289	377974	383983	5336785	5336786

7	151002	6.506	1271	1601	383957	377473	5336577	5336576
7	151101	6.219	903	1210	377800	383994	5336382	5336378
7	151202	6.239	1679	1985	377714	383903	5336181	5336179
7	151301	6.301	2053	2332	383934	377653	5335971	5335975
7	151401	6.361	2514	2768	377575	383921	5335781	5335781
7	151501	6.524	2819	3078	383937	377428	5335580	5335578
7	151601	6.571	3120	3382	377403	383960	5335380	5335377
7	151701	6.582	3428	3650	383930	377360	5335176	5335177
7	151801	6.589	3698	3920	377394	383965	5334986	5334986
7	151901	6.486	4096	4305	383913	377437	5334783	5334776
7	152001	6.375	4369	4598	377535	383897	5334582	5334580
7	152101	6.313	4653	4868	383907	377606	5334373	5334374
7	152201	6.300	4917	5184	377689	383974	5334185	5334179
7	152301	6.185	5242	5522	383908	377743	5333978	5333974
7	152401	6.095	5699	5989	377838	383914	5333780	5333785
7	152502	6.083	281	720	377900	383928	5333579	5333585
7	152601	5.974	789	1189	383908	377969	5333376	5333377
7	152701	5.790	1251	1636	378046	383805	5333178	5333182
7	152801	5.633	1834	2251	383693	378104	5332985	5332981
7	152901	5.445	2320	2669	378198	383603	5332783	5332783
7	153001	5.237	2761	3113	383469	378267	5332579	5332579
7	153101	5.062	3557	3807	378356	383397	5332385	5332382
8	153201	4.856	7278	7512	378444	383281	5332184	5332174
8	153301	4.652	7591	7750	383155	378512	5331980	5331979
8	153401	4.460	7813	7974	378575	383026	5331782	5331786
8	153501	4.287	8037	8169	382922	378641	5331578	5331583
8	153601	3.933	8240	8399	378953	382874	5331382	5331384
8	153701	3.940	8718	8872	382719	378789	5331174	5331176
8	153801	3.777	8939	9146	378880	382642	5330984	5330986
8	153901	3.664	9232	9416	382523	378872	5330779	5330780
8	154001	3.596	9459	9733	378870	382439	5330584	5330585
8	154101	3.475	9804	9966	382305	378841	5330380	5330376
9	154201	3.366	2078	2392	378875	382210	5330185	5330186
9	154301	3.437	2455	2661	382325	378908	5329971	5329975
9	154401	3.608	2732	3069	378884	382455	5329786	5329788
9	154501	3.664	3250	3459	382542	378894	5329577	5329574
9	154601	3.817	3513	3765	378880	382677	5329379	5329388
9	154701	3.902	3810	4044	382771	378886	5329179	5329178
9	154801	4.047	4109	4368	378881	382905	5328980	5328984
9	154901	4.126	4551	4791	382979	378871	5328776	5328778
9	155001	4.331	4845	5167	378878	383175	5328583	5328570
9	155101	4.383	5232	5567	383232	378884	5328376	5328380
9	155201	4.482	5622	5954	378889	383335	5328184	5328185
9	155301	4.653	6132	6387	383448	378818	5327976	5327978
9	155401	4.742	6448	6730	378882	383598	5327779	5327778
9	155501	4.866	6793	7020	383678	378834	5327576	5327578
9	155601	4.925	7077	7282	378878	383790	5327376	5327388
9	155701	5.064	7492	7697	383904	378854	5327176	5327179
14	155802	5.146	4106	4325	378876	384008	5326985	5326987
14	155902	5.278	4382	4561	384118	378850	5326770	5326783
14	156002	5.394	4620	4872	378879	384254	5326584	5326586
14	156102	5.506	4915	5122	384337	378843	5326361	5326384
10	156201	5.647	274	546	378876	384505	5326186	5326181
10	156301	5.672	607	868	384559	378904	5325981	5325979
10	156401	5.797	925	1204	378866	384642	5325779	5325788
10	156501	5.924	1247	1556	384769	378868	5325582	5325579
10	156601	6.067	1842	2239	378876	384909	5325383	5325380
10	156701	6.026	2286	2600	384887	378884	5325182	5325177
10	156801	6.045	2645	2894	378873	384901	5324978	5324984
14	156902	6.045	5330	5632	378881	384904	5324787	5324784
14	157003	6.051	5884	6156	384879	378848	5324580	5324575
10	157101	6.049	3725	4015	384898	378870	5324392	5324375
10	157201	6.036	4068	4320	378881	384903	5324182	5324182
14	157303	6.071	164	461	378878	384929	5323982	5323984
14	157402	6.065	524	803	384899	378854	5323777	5323776
15	157503	6.020	221	550	378885	384882	5323585	5323582
11	157601	4.265	2097	2269	378895	383150	5323382	5323385
11	157701	4.263	2320	2504	383094	378845	5323178	5323182

11	157801	4.227	2582	2769	378875	383088	5322983	5322981
11	157901	4.235	2966	3168	383088	378867	5322777	5322780
11	158001	4.240	3220	3447	378869	383093	5322583	5322582
11	158101	4.245	3694	3923	383101	378874	5322381	5322380
11	158202	4.303	4729	4981	383109	378833	5322177	5322179
11	158302	4.260	3518	3732	383092	378852	5321990	5321975
11	158401	4.250	3221	3482	378872	383099	5321781	5321785
11	158501	4.247	2944	3158	383100	378869	5321587	5321578
11	158601	4.266	2693	2902	378881	383133	5321382	5321385
11	158701	4.228	2409	2635	383109	378903	5321188	5321175
11	158801	4.288	1551	1766	378873	383136	5320979	5320983
11	158901	4.150	1271	1491	383108	378975	5320779	5320778
11	159002	3.984	878	1093	383105	379140	5320580	5320576
11	159102	3.833	3978	4175	379303	383116	5320382	5320378
11	159201	3.711	440	662	383110	379419	5320184	5320175
12	159302	3.525	14958	15123	383104	379593	5319983	5319974
12	159401	3.398	13776	13938	383097	379713	5319788	5319773
15	159502	3.256	5422	5621	383098	379864	5319579	5319582
12	159601	3.253	15219	15344	379874	383119	5319383	5319387
12	159701	3.278	14141	14281	379880	383145	5319189	5319179
12	159801	3.268	13544	13681	379876	383133	5318995	5318985
10	159901	3.470	424	764	383192	379763	5318783	5318776
15	159905	3.263	4951	5185	383104	379864	5318782	5318778
10	160001	2.662	10551	10743	383196	380546	5318579	5318580
12	160002	3.288	12985	13132	379891	383167	5318588	5318582
10	160101	3.479	10277	10499	379770	383227	5318382	5318380
10	160201	3.468	9893	10183	383205	379770	5318184	5318179
10	160301	3.480	9235	9532	383207	379762	5317977	5317982
10	160401	3.483	8954	9186	379770	383228	5317779	5317783
10	160501	3.461	8565	8819	383201	379769	5317577	5317576
10	160601	3.466	8288	8507	379770	383219	5317380	5317383
10	160701	3.448	7966	8192	383198	379769	5317173	5317176
10	160801	3.473	7563	7795	379777	383231	5316980	5316983
10	160901	3.467	7212	7458	383207	379776	5316784	5316774
10	161001	3.465	6873	7149	379777	383217	5316582	5316584
10	161101	3.459	6537	6792	383206	379771	5316376	5316378
9	161201	3.459	9264	9526	383204	379769	5316176	5316181
9	161301	3.450	8902	9176	379777	383203	5315983	5315980
9	161401	3.481	8488	8782	383205	379755	5315780	5315782
9	161501	3.449	8156	8395	379775	383203	5315579	5315581
9	161601	3.435	7816	8080	383197	379788	5315379	5315383
9	161701	3.477	7197	7532	379776	383216	5315182	5315181
9	161801	3.455	6792	7104	383193	379769	5314977	5314978
9	161901	3.475	6361	6711	379768	383209	5314778	5314778
43	700101	8.720	5033	5317	335024	340458	5373571	5366772
43	700201	3.217	5740	5847	337025	337092	5373574	5370369
43	700301	5.698	5466	5638	339013	339014	5367965	5373657
43	700401	6.803	6080	6232	341001	341002	5366789	5373588
68	700502	6.267	329	533	343011	343013	5373012	5366752
68	700602	5.666	638	787	345023	345007	5366772	5372434
68	700702	6.276	896	1100	347022	347010	5373022	5366755
68	700802	5.988	1234	1423	349005	349007	5366770	5372752
6	700901	4.713	16497	16682	351010	351009	5357732	5353026
68	700903	21.264	1640	2597	351011	351012	5373069	5351847
68	701001	21.566	2782	3649	353010	353008	5351916	5373448
68	701101	19.253	3892	4787	355008	355011	5372048	5352831
77	701204	15.870	2174	2744	357009	357007	5353904	5369757
77	701303	12.266	2916	3251	359015	359014	5367104	5354847
29	701401	10.729	1629	2066	361020	361013	5366600	5355892
29	701501	9.075	1125	1490	363007	363004	5356896	5365959
29	701601	12.670	2240	2662	365007	365004	5357913	5370571
29	701701	17.706	2896	3468	367011	367007	5376521	5358832
29	701801	18.003	3619	4316	369005	369006	5359909	5377888
60	701901	19.145	1515	2452	371003	371003	5379081	5359967
84	702003	10.151	886	1308	373014	373010	5351267	5341129
91	702101	11.190	410	742	373007	373010	5367906	5379088
29	702201	14.336	1672	2269	375408	375412	5379066	5364769
91	702202	38.008	990	2402	375413	375407	5379077	5341131

26	702301	8.073	1675	1937	375984	375990	5383581	5391645
28	702401	21.527	4576	5213	377015	377005	5370643	5392152
91	702402	34.108	2625	3792	377007	377011	5341178	5375254
28	702501	30.983	2681	4016	379014	379013	5391584	5361112
91	702502	22.878	4752	5473	378999	379006	5362918	5340064
8	702503	22.806	4252	5189	379008	379006	5320741	5343515
15	702504	3.971	2883	3090	380388	378951	5342039	5338436
15	702505	3.971	2883	3090	380388	378951	5342039	5338436
9	702601	46.660	9835	12238	381007	381007	5314382	5360540
8	702602	7.057	2838	3350	380092	380092	5321389	5314358
14	702603	7.327	3227	3588	379245	382493	5336682	5342747
14	702604	7.327	3227	3588	379245	382493	5336682	5342747
28	702701	30.332	1354	2426	381001	381009	5362198	5392494
91	702702	11.905	4171	4520	381006	381007	5368749	5356853
10	702801	33.649	3542	6204	383011	383011	5347831	5314374
8	702901	3.804	2357	2491	384689	384693	5326787	5322986
8	703001	19.050	413	1883	383505	383515	5350584	5331656
28	703101	13.826	4205	4585	383513	383513	5394481	5380669
28	703102	24.279	255	1127	383516	383507	5387012	5362762
91	703201	5.424	985	1227	385017	385006	5345181	5350596
28	703301	26.693	2864	3876	384942	385003	5370264	5395919
90	703401	5.421	5411	5593	387009	387010	5345194	5350610
91	703402	5.437	658	862	387017	387011	5350572	5345140
28	703501	27.687	882	1947	387008	387011	5397855	5370203
28	703601	5.656	2378	2555	388594	388586	5375775	5370123
90	703701	5.416	5108	5282	389009	389012	5350580	5345168
91	703702	5.448	315	522	389008	389005	5345189	5350631
19	703801	14.496	1297	1816	388993	389006	5384760	5399239
19	703901	12.789	660	1067	391011	391019	5400914	5388139
19	704002	11.013	152	534	393008	393007	5391673	5402673
19	704101	11.001	6260	6567	395013	395011	5404331	5393340
19	704201	20.289	5338	5955	396188	396187	5393376	5413645
19	704301	20.215	4499	5071	398174	398180	5413563	5393364
19	704401	19.043	3613	4223	400187	400188	5394606	5413630
19	704501	15.770	2940	3407	402182	402147	5413568	5397824
22	704502	3.079	631	775	402186	402187	5399563	5396489
19	704601	13.291	1772	2179	403994	403969	5413557	5400284
22	704603	7.575	145	402	403993	403989	5404515	5396946
6	706401	6.979	16069	16279	351924	349877	5351040	5357703

Summary for Flights : 1 to 91
Lines : 100101 to 706401

Number of survey lines :	713
Number of (well defined) lines :	713
Total number of gaps in lines are :	0
Total length of gaps is :	0.000 km
Total distance is :	7827.689 km
Average Line Length is :	10.979 km

Line Channel Report
Balfour Area E

Flights : 16 to 35 Lines : 100102 to 701801

Flight	Line	Dist	StFID	EndFID	StartX	EndX	StartY	EndY
22	100102	21.258	325	802	304897	326136	5440205	5440205
20	100201	21.324	374	896	304890	326195	5440004	5440005
20	100301	21.347	1080	1569	326222	304894	5439797	5439797
20	100401	21.332	1766	2246	305071	326387	5439601	5439607
20	100501	21.581	2284	2786	326409	304858	5439397	5439314
22	100601	21.165	1010	1502	326469	305322	5439198	5439199
22	100701	21.203	1563	2040	305493	326677	5439004	5439006
22	100801	21.002	2195	2691	326640	305656	5438800	5438797
22	100901	21.045	2764	3251	305764	326789	5438603	5438603
22	101001	20.956	3443	3957	326797	305859	5438399	5438398
22	101101	20.923	4053	4520	306053	326959	5438205	5438204
22	101201	20.883	4861	5373	326957	306094	5437997	5437995
22	101301	20.748	5420	5899	306350	327078	5437804	5437804
22	101401	20.738	6083	6578	327143	306424	5437599	5437599
22	101501	20.637	6625	7095	306606	327224	5437403	5437406
22	101601	20.797	7126	7626	327316	306542	5437176	5437197
22	101701	20.790	7792	8249	306620	327392	5437005	5437004
22	101801	20.989	8276	8771	327454	306485	5436792	5436798
23	101901	21.051	828	1305	306603	327634	5436606	5436600
23	102001	21.102	1339	1839	327629	306546	5436396	5436394
23	102101	21.152	2000	2492	306632	327763	5436206	5436206
23	102201	21.288	2524	3061	327787	306523	5435998	5435997
23	102301	21.246	3225	3721	306620	327846	5435806	5435802
23	102401	21.310	3755	4289	327923	306635	5435598	5435595
23	102501	21.506	4452	4969	306596	328077	5435402	5435402
23	102601	21.635	5005	5562	328111	306499	5435198	5435197
23	102701	18.185	5601	6005	306620	324790	5435004	5435005
23	102703	10.419	428	688	317953	328361	5434997	5435002
23	102802	21.760	722	1257	328275	306537	5434799	5434796
23	102901	21.826	1393	1895	306604	328409	5434605	5434604
23	103001	21.919	1923	2453	328422	306526	5434402	5434400
23	103101	21.971	2508	3060	306617	328562	5434204	5434202
35	103201	22.108	5370	5867	328577	306487	5434002	5433996
35	103301	22.111	4822	5316	306607	328701	5433802	5433801
34	103401	22.212	1126	1606	328742	306550	5433598	5433598
34	103502	22.248	610	1085	306644	328873	5433403	5433399
34	103601	12.731	10990	11319	328889	316174	5433200	5433197
34	103602	16.408	198	557	322742	306349	5433197	5433200
34	103701	22.477	10430	10937	306599	329056	5433011	5433001
34	103801	22.573	9866	10358	329076	306522	5432801	5432795
34	103901	22.515	8988	9482	306664	329160	5432593	5432605
34	104001	22.443	8453	8954	329212	306787	5432398	5432400
34	104101	22.521	7895	8395	306856	329359	5432201	5432203
34	104201	22.506	7131	7643	329386	306900	5432000	5431998
34	104301	22.536	6572	7077	307013	329531	5431803	5431804
34	104401	22.585	5902	6419	329543	306977	5431603	5431598
34	104501	22.520	5332	5851	307160	329661	5431400	5431402
33	104601	22.498	495	1040	329694	307218	5431202	5431198
33	104701	19.592	7346	7819	307348	326920	5431001	5431008
33	104702	8.115	200	447	321759	329859	5431008	5431000
32	104801	22.419	3386	3887	307431	329832	5430805	5430803
32	104901	22.601	3926	4418	329959	307375	5430599	5430597
32	105001	22.496	4658	5155	307570	330048	5430404	5430405
32	105101	22.562	5193	5690	330121	307578	5430182	5430198
32	105201	22.576	5769	6271	307713	330271	5430003	5430002
32	105301	22.545	225	742	330248	307723	5429800	5429797
32	105401	22.481	798	1295	307904	330368	5429602	5429602
32	105501	22.529	1332	1832	330431	307920	5429395	5429395
32	105601	22.421	1963	2449	308067	330472	5429200	5429204
33	105701	22.478	966	1475	308119	330579	5428999	5429002
33	105801	22.536	1510	2047	330686	308173	5428796	5428798

33	105901	22.465	2209	2733	308299	330744	5428601	5428599
33	106001	22.555	2768	3293	330844	308309	5428397	5428398
33	106101	22.574	3342	3834	308457	331014	5428204	5428203
33	106201	22.516	4101	4618	330986	308488	5428001	5427998
33	106301	22.598	4664	5176	308593	331172	5427799	5427799
33	106401	22.529	5219	5738	331154	308644	5427598	5427601
33	106501	22.545	5876	6403	308756	331282	5427404	5427400
32	106601	22.509	2700	3207	331324	308832	5427198	5427197
33	106702	22.556	6482	7041	331387	308857	5427000	5426999
32	106801	22.552	1279	1774	331469	308936	5426799	5426797
32	106901	22.518	703	1232	309094	331591	5426605	5426606
31	107001	22.522	2758	3260	331622	309120	5426401	5426397
31	107101	22.495	2229	2706	309251	331720	5426203	5426204
31	107203	22.481	1542	2027	331780	309318	5425999	5425997
31	107302	22.483	272	751	331880	309414	5425800	5425798
30	107401	22.406	1713	2194	309545	331934	5425604	5425603
30	107501	22.391	1061	1553	332048	309674	5425399	5425397
30	107601	22.356	537	1017	309852	332191	5425202	5425203
30	107701	21.122	5575	6038	332190	311083	5425000	5425000
30	107702	11.095	244	489	320836	309750	5425000	5424995
30	107801	22.206	4874	5373	310115	332305	5424800	5424805
30	107902	22.154	4316	4821	332357	310221	5424597	5424600
29	108001	22.149	1274	1771	310399	332530	5424405	5424407
29	108101	22.076	743	1225	332528	310470	5424200	5424196
29	108202	22.021	190	692	310677	332680	5424003	5424006
21	108302	21.994	280	815	332684	310712	5423797	5423798
21	108401	21.895	7104	7574	310943	332821	5423603	5423604
21	108501	21.846	6545	7062	332836	311011	5423399	5423399
21	108601	21.796	6017	6489	311247	333025	5423205	5423204
19	108701	21.707	6172	6691	311366	333051	5422995	5423005
19	108801	21.633	5544	6136	333098	311493	5422795	5422802
18	108901	21.631	7388	8010	333178	311576	5422592	5422598
18	109001	21.528	6611	7158	311812	333319	5422404	5422403
18	109101	21.505	5949	6546	333310	311830	5422198	5422196
18	109201	21.370	5157	5706	312072	333421	5422002	5422005
18	109301	21.311	4468	5092	333494	312212	5421804	5421797
18	109401	21.244	3713	4260	312381	333601	5421604	5421607
18	109501	21.183	2260	2836	312493	333649	5421403	5421406
18	109601	21.152	2900	3479	333727	312602	5421200	5421196
21	109701	21.163	822	1369	312774	333912	5421005	5421006
21	109801	21.061	1421	1971	333884	312846	5420799	5420796
21	109901	20.903	2151	2660	313085	333967	5420601	5420606
21	110001	20.896	2705	3227	334061	313187	5420397	5420395
21	110101	20.910	3433	3962	313284	334172	5420203	5420205
21	110201	20.973	4003	4545	334188	313241	5419999	5419997
21	110301	20.953	4600	5102	313418	334349	5419807	5419803
29	110402	21.030	5841	6333	334377	313365	5419601	5419595
29	110501	21.003	5291	5796	313553	334535	5419404	5419404
29	110601	20.943	4564	5026	334524	313597	5419199	5419197
29	110701	20.999	4002	4522	313666	334643	5418991	5419005
29	110801	20.976	3336	3808	334668	313710	5418798	5418796
29	110902	21.034	2752	3297	313783	334789	5418596	5418605
29	111003	21.016	2141	2628	334851	313855	5418398	5418399
29	111101	21.061	1409	1958	313930	334969	5418204	5418203
28	111201	21.124	7262	7864	313983	335079	5417996	5418002
28	111301	21.051	6709	7221	335076	314046	5417798	5417798
28	111401	21.127	6022	6559	314127	335234	5417604	5417601
28	111501	21.102	5475	5979	335270	314189	5417400	5417397
28	111601	21.128	4855	5429	314258	335360	5417203	5417202
28	111701	21.166	4087	4621	335417	314276	5416999	5416997
28	111801	21.184	3488	4042	314373	335533	5416799	5416805
28	111901	21.199	2931	3439	335595	314417	5416598	5416595
28	112001	21.209	2130	2707	314520	335703	5416404	5416404
28	112101	21.223	1562	2084	335715	314515	5416196	5416202
18	112203	21.289	8449	9089	314638	335893	5416003	5416007
28	112301	9.550	178	420	335889	326348	5415800	5415798
28	112401	9.599	1128	1417	326413	335997	5415602	5415602
28	112502	9.677	841	1088	336062	326396	5415402	5415396

27	112601	9.682	1681	1960	326457	336126	5415199	5415202
27	112701	9.778	1413	1642	336214	326446	5414994	5414998
27	112801	9.845	1094	1364	326522	336356	5414801	5414804
27	112901	9.861	824	1051	336382	326530	5414599	5414596
27	113001	10.033	503	783	326554	336574	5414404	5414404
27	113102	9.950	209	453	336532	326592	5414198	5414198
27	113201	10.028	7077	7306	336610	326590	5413999	5413997
27	113301	10.141	6732	7039	326632	336757	5413802	5413805
27	113401	10.146	6393	6675	336774	326643	5413593	5413597
27	113501	10.225	6042	6354	326693	336903	5413401	5413403
27	113601	10.194	5628	5877	336922	326738	5413201	5413196
27	113701	10.302	5264	5583	326736	337021	5413002	5413001
27	113801	10.375	4950	5219	337092	326728	5412798	5412795
27	113901	10.431	4540	4904	326779	337191	5412605	5412604
27	114001	10.464	3867	4171	337271	326823	5412396	5412398
27	114101	10.600	3456	3821	326821	337399	5412204	5412206
27	114201	10.649	3072	3382	337424	326790	5411995	5412000
27	114301	10.711	2519	2876	326887	337577	5411799	5411805
27	114401	10.723	2132	2477	337585	326882	5411598	5411600
27	114501	10.789	1500	1885	326925	337685	5411406	5411403
26	114601	10.836	2562	2826	337758	326935	5411199	5411197
26	114701	10.889	2221	2519	326981	337856	5411004	5411003
26	114802	11.046	1905	2182	337933	326899	5410791	5410796
25	114901	10.978	5731	6000	337982	327017	5410601	5410594
25	115001	11.006	5288	5594	327039	338030	5410403	5410399
25	115101	11.099	4966	5250	338160	327074	5410198	5410199
25	115201	11.110	4608	4924	327107	338201	5410000	5410001
25	115301	11.189	4128	4440	338300	327128	5409794	5409798
25	115401	11.344	3692	4077	327146	338466	5409603	5409602
25	115501	11.430	3325	3652	338479	327067	5409396	5409400
25	115601	11.435	2792	3167	327220	338633	5409202	5409202
25	115701	11.484	2374	2756	338633	327174	5408998	5409000
25	115801	11.552	1878	2323	327283	338805	5408801	5408801
25	115901	11.682	1210	1652	338813	327166	5408598	5408596
25	116001	11.642	659	1163	327309	338913	5408402	5408398
25	116101	11.728	152	616	338973	327277	5408200	5408195
25	116202	11.695	640	1094	327367	339031	5408002	5408002
25	116302	11.879	182	599	339130	327279	5407798	5407795
25	116401	11.899	2108	2615	327397	339258	5407604	5407602
25	116501	11.874	1604	2058	339275	327432	5407399	5407399
25	116601	11.981	949	1416	327466	339413	5407203	5407203
25	116702	12.081	378	905	339458	327418	5406997	5406997
24	116801	12.162	2159	2576	327488	339623	5406800	5406802
24	116901	12.203	1765	2117	339602	327416	5406599	5406597
24	117001	12.201	1288	1707	327556	339727	5406401	5406402
24	117101	12.212	714	1086	339751	327561	5406200	5406198
24	117202	12.323	253	655	327611	339911	5406005	5406001
24	117301	12.375	5816	6181	339911	327556	5405800	5405796
24	117401	12.397	4831	5178	340020	327640	5405600	5405598
24	117501	12.493	5373	5753	327681	340153	5405401	5405404
24	117601	12.497	4361	4768	327687	340160	5405202	5405204
24	117702	11.909	3946	4315	339579	327690	5405001	5404999
24	117801	11.996	3236	3625	327901	339872	5404806	5404804
24	117901	12.010	2815	3187	339654	327664	5404604	5404595
24	118001	11.751	2392	2784	327781	339509	5404404	5404402
24	118101	11.467	1834	2221	339208	327766	5404217	5404198
24	118201	11.142	1391	1792	327825	338942	5404001	5404006
19	118301	10.951	3499	3853	327852	338782	5403805	5403804
19	118401	10.648	2922	3301	338530	327907	5403617	5403596
19	118501	10.449	2565	2885	327892	338324	5403400	5403406
19	118601	10.194	2151	2523	338065	327897	5403201	5403200
19	118701	9.922	1739	2104	327989	337885	5403003	5403003
19	118801	9.694	1138	1543	337625	327966	5402798	5402797
30	118902	9.508	4330	4597	337389	327895	5402603	5402597
30	119002	9.168	4054	4289	328024	337180	5402403	5402398
30	119102	8.945	3732	4001	336952	328022	5402206	5402201
30	119202	8.611	3443	3672	328077	336676	5401999	5402000
16	119301	8.479	5097	5357	328121	336583	5401803	5401805

16	119401	8.279	4827	5062	336280	328014	5401600	5401596
16	119501	7.934	4554	4769	328139	336064	5401405	5401405
16	119601	7.685	4288	4500	335828	328155	5401202	5401194
16	119701	7.456	4043	4225	328191	335640	5401005	5401000
16	119801	7.203	3823	4002	335386	328191	5400801	5400795
16	119901	6.906	3603	3777	328245	335144	5400603	5400603
16	120001	6.696	3286	3455	334924	328235	5400399	5400397
16	120101	6.403	3070	3237	328305	334701	5400201	5400206
16	120201	6.161	2875	3022	334459	328304	5399995	5399995
16	120301	5.926	2678	2825	328330	334251	5399799	5399808
16	120401	5.715	2497	2636	334033	328325	5399592	5399594
16	120501	5.447	2313	2452	328383	333824	5399407	5399406
16	120601	5.243	2139	2268	333589	328352	5399199	5399197
16	120701	4.958	1964	2096	328435	333387	5399001	5399009
16	120801	4.734	1676	1805	333143	328417	5398814	5398797
16	120901	4.502	1525	1642	328485	332982	5398604	5398603
16	121001	4.220	1358	1477	332663	328449	5398392	5398397
16	121101	3.931	1193	1315	328542	332466	5398198	5398206
16	121201	3.749	1052	1161	332242	328499	5398000	5397997
16	121301	3.372	914	1005	328600	331969	5397806	5397805
16	121401	3.202	792	871	331780	328581	5397596	5397598
16	121501	2.959	665	739	328631	331588	5397401	5397402
16	121601	2.614	559	625	331334	328723	5397197	5397198
16	121701	2.443	447	509	328669	331109	5397004	5397004
16	121801	2.149	351	407	330871	328724	5396795	5396797
16	121901	1.966	242	301	328712	330675	5396605	5396606
16	122001	1.691	6586	6630	328740	330429	5396400	5396407
16	122101	1.519	6517	6554	330209	328692	5396194	5396197
16	122201	1.286	6439	6471	328789	330074	5396005	5396004
16	122301	0.956	6379	6403	329767	328813	5395795	5395800
16	122401	0.735	6304	6323	328849	329582	5395603	5395603
16	122501	0.427	6215	6226	329313	328886	5395397	5395395
33	700101	0.495	1271	1281	305007	305012	5439810	5440305
33	700201	8.154	609	783	307015	307016	5440161	5432012
32	700301	13.256	246	530	309017	309018	5440203	5426956
21	700401	16.624	199	561	311016	311018	5440180	5423568
24	700501	19.391	316	811	313018	313014	5440166	5420794
29	700601	24.371	642	1176	315019	315016	5440155	5415801
35	700701	24.415	6501	7013	317010	317012	5415818	5440216
35	700801	20.978	7206	7734	318977	319016	5440211	5419260
35	700802	7.598	163	369	319016	319016	5423163	5415574
35	700902	24.487	593	1145	321011	321014	5415812	5440280
27	701001	24.449	628	1280	323055	323016	5440214	5415796
28	701101	24.393	563	1160	325015	325012	5415839	5440210
26	701201	26.153	3020	3734	327013	327013	5411505	5437628
31	701301	37.596	6604	7544	329013	329009	5395224	5432782
30	701401	30.748	2382	3159	331013	331013	5427684	5396965
19	701501	24.063	6856	7576	333017	333015	5422745	5398714
19	701601	17.236	4786	5348	335010	335012	5400572	5417782
19	701701	10.499	4291	4633	337012	337016	5412778	5402296
19	701801	3.745	3949	4058	339010	339010	5404142	5407883

Summary for Flights : 16 to 35
 Lines : 100102 to 701801

Number of survey lines :	248
Number of (well defined) lines :	248
Total number of gaps in lines are :	0
Total length of gaps is :	0.000 km
Total distance is :	3951.267 km
Average Line Length is :	15.933 km

Geo Instruments – HELICOPTER GEOPHYSICS

JOB STATUS REPORT - J2113 TASMANIA

TO:	Roger Henderson	FAX: 02 9529-9726	CC:	Lynda Turnbull
FROM:	Zoltan Beldi			
AREA:	DATE: 12/3/01			

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Sun	14-Jan	14	nil	nil		1	Mob to Zeehan
Mon	15-Jan	15	nil	nil		1	Mob to Zeehan
Tue	16-Jan	16	nil	nil		1,2	Mob to Zeehan/Heli on site. Brd delayed
Wed	17-Jan	17	nil	stby	1.0	1,2,3	Establish base
Thu	18-Jan	18	nil	stby	1.0	1,2,3	HEM Bird Assmb/Test
Fri	19-Jan	19	nil	stby	1.0	1,2,3	HEM Bird Assy/repair
Sat	20-Jan	20	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Sun	21-Jan	21	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Mon	22-Jan	22	1	26	1.7	1,2,3	HEM Bird Assy/repair rain
Tue	23-Jan	23	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Wed	24-Jan	24	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Thu	25-Jan	25	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Fri	26-Jan	26	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Sat	27-Jan	27	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Sun	28-Jan	28	nil	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Mon	29-Jan	29		stby	1.0	1,2,3	HEM Bird Assy/repair
Tue	30-Jan	30	2	stby	1.0	1,2,3	HEM Bird Assy/repair rain
Wed	31-Jan	31		stby	1.0	1,2,3	HEM Bird Assy/repair rain
Thu	1-Feb	32		stby	1.0	1,2,3	HEM Bird Assy/repair rain
Fri	2-Feb	33	3	stby	1.0	1,2,3	HEM Bird Assy/repair
Sat	3-Feb	34	4	stby	1.3	1,2,3	flt aborted due to very strong wind
Sun	4-Feb	35	5.6	338	7.0	1,2,3	late start due fog/low cloud/wind
Mon	5-Feb	36	7,8	234	4.2	1,2,3	flt8 term early due wind
Tue	6-Feb	37	9,10,11	351	8.3	1,2,3	extreme terrain resulting poor kms/hr (<30kms/hr)
Wed	7-Feb	38	12	78	1.4	1,2,3	flights aborted due mag storms
Thu	8-Feb	39	13	97	2.7	1,2,3	strong winds, bird damaged

Planned Km	
Previous Total	
Total Km flown	
Remaining Km	
Previous Helicopter Hours	
Total Helicopter Hours	

Notes:

Personnel Key	1	Zoltan Beldi
	2	Tony Feller
	3	Andrew Roberts

Geo Instruments – HELICOPTER GEOPHYSICS

JOB STATUS REPORT - J2113 TASMANIA

TO:	Roger Henderson	FAX: 02 9529-9726	CC: Zoltan Beldi	
FROM:	Pat Healy		Davin Allen	
AREA:	DATE: 12/3/01			

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Thu	1-Nov	305					
Fri	2-Nov	306					
Sat	3-Nov	307					
Sun	4-Nov	308					
Mon	5-Nov	309				1,	Mobilization to Tasmania
Tue	6-Nov	310				1,	On site in Sheffield
Wed	7-Nov	311				1,5	Setup of Bird and ground equipment
Thu	8-Nov	312			4:42	1,3,5	Helicopter arrives in Sheffield
Fri	9-Nov	313			1:00	1,3,4,5	Helicopter setup and calibration
Sat	10-Nov	314			1:00	1,2,3,4,5	Standby Wx
Sun	11-Nov	315	1	141.6	3:20	1,2,3,4,5	1st survey flight (rain,hail,sleet and snow)
Mon	12-Nov	316	2,3	124.3	3:24	1,2,3,4,5	2nd flt OK,Hum failure on flt 3 (lightning strike)
Tue	13-Nov	317	4,5	313.5	5:42	1,2,3,4,5	All OK
Wed	14-Nov	318	6,7	345.1	5:54	1,2,3,4,5	All OK
Thu	15-Nov	319	8	56.1	1:42	2,3,4,5	Hum disk corrupt, late start, then aborted due wind
Fri	16-Nov	320	9,10	405.1	6:24	2,3,4,5	All OK
Sat	17-Nov	321			1:00	2,3,4,5	Standby Wx (Pilot's 7th day)
Sun	18-Nov	322			1:00	2,4,5	Standby Wx (High Wind,snow)
Mon	19-Nov	323	11,12,13,14	272.9	5:54	2,4,5	All OK
Tue	20-Nov	324	15,16	458.6	5:18	2,4,5	All OK
Wed	21-Nov	325	17,18	410.2	5:48	2,3,4,5,6	All OK
Thu	22-Nov	326			1:00	2,3,4,5,6	Standby Wx
Fri	23-Nov	327	19	135	3:06	2,3,4,5,6	Single flight due wind
Sat	24-Nov	328	20,21	224.2	5:06	2,3,4,5,6	Wx marginal, relocate to Cradle Mountain
Sun	25-Nov	329			1:00	2,3,4,5,6	Wx no good, rain throughout Western Tasmania
Mon	26-Nov	330			1:00	3,4,5,6	Same today
Tue	27-Nov	331	22	233.6	3:20	3,4,5,6	Fog till mid afternoon single flight
Wed	28-Nov	332	23,24	439.7	6:30	2,3,4,5,6	Fog till midday
Thu	29-Nov	333	25,26,27	267	4:20	2,3,4,5,6	Early fog ,late rain
Fri	30-Nov	334	28,29,30	482.9	9:30	2,3,4,5,6	Early rain

Planned Km	15600.2
Previous Total	
Total Km flown	4309.8
Remaining Km	11290.4
Previous Helicopter Hours	
Total Helicopter Hours	87:00

Notes:

Personnel Key	1	Zoltan Beldi
<hr style="border-top: 1px dashed black;"/>		
	2	Anton Rada
<hr style="border-top: 1px dashed black;"/>		
	3	Patrick Healy
<hr style="border-top: 1px dashed black;"/>		
	4	Tony Feller
<hr style="border-top: 1px dashed black;"/>		
	5	Rob Ried
<hr style="border-top: 1px dashed black;"/>		
	6	Sam Borg
<hr style="border-top: 1px dashed black;"/>		
<hr style="border-top: 1px dashed black;"/>		

Geo Instruments - HELICOPTER GEOPHYSICS

JOB STATUS REPORT - J2113 TASMANIA

TO:	Roger Henderson	FAX: 02 9529-9726	CC:	Zoltan Beldi
FROM:	Pat Healy			Davin Allen
AREA:		DATE	12/3/01	

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Sat	1-Dec	335			1:00	2,3,4,5	No flights due Wx (rain)
Sun	2-Dec	336	31,32,33	549.1	9:12	2,3,4,5,6	Start 100hr SVC
Mon	3-Dec	337	34	130.4	3:00	2,3,4,5,6	100hr SVC
Tue	4-Dec	338	35,36,37,38	708.1	11:48	2,3,4,5,6	All OK.
Wed	5-Dec	339	39,40,41-43	516.4	12:24	2,3,4,5,6	All OK.
Thu	6-Dec	340	44,45,46,	367.4	9:18	2,3,4,5,6	All OK
Fri	7-Dec	341	47		2:24	2,3,4,5,6	Rain in morning, Single Flt, Hit a tree with the Bird.
Sat	8-Dec	342			1:00	2,3,4,5,6	Bird repairs
Sun	9-Dec	343			1:00	2,3,4,5,6	Bird repairs
Mon	10-Dec	344				2,3,4,5,6	Heavy rain, possible snow latter.
Tue	11-Dec	345				2,3,4,5,6	We have made repairs to the casing and waiting for a
Wed	12-Dec	346				2,3,4,5,6	break in the weather to reassemble the bird.
Thu	13-Dec	347				2,3,4,5,6	
Fri	14-Dec	348				2,3,4,5,6	
Sat	15-Dec	349				2,3,4,5,6	
Sun	16-Dec	350				2,3,4,5,6	
Mon	17-Dec	351				2,3,4,5,6	
Tue	18-Dec	352				2,3,4,5,6	
Wed	19-Dec	353				2,3,4,5,6	
Thu	20-Dec	354				2,3,4,5,6	
Fri	21-Dec	355				2,3,4,5,6	
Sat	22-Dec	356				2,3,4,5,6	
Sun	23-Dec	357				2,3,4,5,6	
Mon	24-Dec	358				2,3,4,5,6	
Tue	25-Dec	359				2,3,4,5,6	
Wed	26-Dec	360				2,3,4,5,6	
Thu	27-Dec	361				2,3,4,5,6	
Fri	28-Dec	362				2,3,4,5,6	

Planned Km	15600.2
Previous Total	4309.8
Total Km flown	6581.2
Remaining Km	9019.0
Previous Helicopter Hours	87:00
Total Helicopter Hours	138:06

42.19%

Notes:

Personnel Key	1	Zoltan Beldi
	2	Anton Rada
	3	Patrick Healy
	4	Tony Feller
	5	Rob Ried
	6	Hammish Robertson

FUGRO AIRBORNE SURVEYS

JOB STATUS REPORT - J2113 TASMANIA

TO: Davin Allen FAX: 08 92736460 CC:

FROM: Pat Healy

AREA: DATE: 2/4/02

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Tue	1-Jan	1					
Wed	2-Jan	2					
Thu	3-Jan	3					
Fri	4-Jan	4					
Sat	5-Jan	5					
Sun	6-Jan	6					
Mon	7-Jan	7					
Tue	8-Jan	8					
Wed	9-Jan	9					
Thu	10-Jan	10					
Fri	11-Jan	11					
Sat	12-Jan	12					
Sun	13-Jan	13					
Mon	14-Jan	14					
Tue	15-Jan	15					
Wed	16-Jan	16					
Thu	17-Jan	17					
Fri	18-Jan	18					
Sat	19-Jan	19					
Sun	20-Jan	20					
Mon	21-Jan	21					
Tue	22-Jan	22					
Wed	23-Jan	23					
Thu	24-Jan	24					
Fri	25-Jan	25					
Sat	26-Jan	26					
Sun	27-Jan	27					
Mon	28-Jan	28					
Tue	29-Jan	29					
Wed	30-Jan	30			4:06	3,4	Helicopter mobilize to Devonport
Thu	31-Jan	31			0:54	3,4,5	Heli to Cradle Mt, Fit equip,move to Zeehan

Planned Km	15600.2
Previous Total	6581.2
Total Km flown	6581.2
Remaining Km	9019.0
Previous Helicopter Hours	
Total Helicopter Hours	5:00

42.19%

- Notes:** Personnel Key
- 1 Zoltan Beldi
 - 2 Anton Rada
 - 3 Patrick Healy
 - 4 Tony Feller
 - 5 Rob Ried
 - 6 Jim Ladd

JOB STATUS REPORT - J2113 TASMANIA

TO:	Davin Allen	FAX: 08 92736466	CC:	
FROM:	Pat Healy			
AREA:		DATE:	2/11/02	

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Fri	1-Feb	32				3,4,5	Set-up, admin. Got very windy in afternocn no flight
Sat	2-Feb	33				3,4,5	Rain and low cloud all day, no flights
Sun	3-Feb	34	55-57	339.1	6:06	3,4,5	Good conditions till later in afternoon.
Mon	4-Feb	35	58-60	438.4	8:06	3,4,5	Seccnd pilot arrives 8 pm tonight, probs with Mag.
Tue	5-Feb	36	61		2:12	3,4,5,6	Flight scrubbed due 34k noise.(118.4km)
Wed	6-Feb	37	62-63		1:30	3,4,5,6	Test flights, two test lines flown, Data noisy.
Thu	7-Feb	38	64		0:45	3,4,5,6	Test flight, two test lines flcwn, Data noisy.
Fri	8-Feb	39	65-67	643.5	8:36	3,4,5,6	3 flights, dodging rain on the last.
Sat	9-Feb	40			1:00	3,4,5,6	Rain all day.
Sun	10-Feb	41	68	118.9	2:12	3,4,5,6	Flight aborted due high wind.High winds rest of day.
Mon	11-Feb	42	69-71	380	6:48	3,4,5,6	First 2 flights OK, 3rd flight 34k noise is back.
Tue	12-Feb	43	72	57	1:42	2,3,4,5,6	capasitor box investigation, test flight no change
Wed	13-Feb	44	73 74	48	0:42	2,3,4,5,6	reconfigure to Cradle Mt state, test no change
Thu	14-Feb	45	75, 76		2:12	2,3,4,5,6,7	remcve Bungies, change cards, tests, OK results PM test flight.
Fri	15-Feb	46			1:00	2,3,4,5,6,7	High winds all day. Wx Day.
Sat	16-Feb	47	77, 78	225	6:06	2,3,4,5,6,7	AM Fog, all OK
Sun	17-Feb	48	79,80,81	385	7:36	2,3,4,5,6,7	Early Fog, all OK
Mon	18-Feb	49	82		1:24	2,4,5,6,7	Early Low cloud 10 am start, 34k noise is back.
Tue	19-Feb	50			1:00	2,4,5,6,7	High winds PM, inspected and changed parts, 34K noise persisting.
Wed	20-Feb	51	82		1:00	2,4,5,7	High winds,moved 34K bucking coil, test flight OK
Thu	21-Feb	52			1:00	2,4,5,7	Heavy Rain AM.Persistant rain/ hail PM, Wx Day
Fri	22-Feb	53			1:00	2,4,5,7	rain,mist all day, no production Wx day
Sat	23-Feb	54			1:00	2,4,7	AM rain, PM mist clearing to lowcloud, Wx day. Test flight. Power supply failure
Sun	24-Feb	55	82,83	62	2:36	2,4,7,8	perfect Wx, some prod, ra't failure, repairs pm.
Mon	25-Feb	56			1:00	2,4,5,7,8	perfect Wx, Edwardo conducting repairs.
Tue	26-Feb	57			1:00	2,4,5,7,8	Showers, Edwardo conducting repairs.
Wed	27-Feb	58	84	10	1:00	2,4,5,7,8	rain,mist till 4PM . late test Flight OK, returned due wind. Wx day
Thu	28-Feb	59			1:00	2,4,5,7,8	rain,mist all day, no production Wx day
Fri	1-Mar	60			1:00	2,4,5,7,8	rain,mist all day, no production Wx day

Planned Km	15600.2
Previous Total	6581.2
Total Km flown	9288.1
Remaining Km	6312.1
Previous Helicopter Hours	5:00
Total Helicopter Hours	75:33

59.54%

- Notes:** Personnel Key
- 1 Zoltan Beldi
 - 2 Anton Rada
 - 3 Patrick Healy
 - 4 Tony Feller
 - 5 Rob Ried
 - 6 Jim Ladd
 - 7 Max Icorn
 - 8 Edwardo from GeoTech

JOB STATUS REPORT - J2113 TASMANIA

TO:	Davin Allen	FAX: 08 92736466	CC:	Zoltan Beldi
FROM:	Anton Rada			
AREA:	DATE: 3/4/02			

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Mon	18-Feb	49	82		1:24	2,4,5,6,7	Early Low cloud 10 Am start, 34k noise is back. linvestigating
Tue	19-Feb	50			1:00	2,4,5,6,7	High winds PM, inspected and changed parts, 34K noise persisting.
Wed	20-Feb	51	82		1:00	2,4,5,7	High winds,moved 34K bucking coil, test flight OK
Thu	21-Feb	52			1:00	2,4,5,7	Heavy Rain AM.Persistant rain/ hail PM, Wx Day
Fri	22-Feb	53			1:00	2,4,5,7	rain,mist all day, no production Wx day
Sat	23-Feb	54			1:00	2,4,7	AM rain, PM mist clearing to lowcloud, Wx day. Test flight Power supply failure.
Sun	24-Feb	55	82,83	62	2:36	2,4,7,8	perfect Wx, some production, radalt failure, repairs. Edwardo PM
Mon	25-Feb	56			1:00	2,4,5,7,8	perfect Wx, Edwardo conducting repairs.
Tue	26-Feb	57			1:00	2,4,5,7,8	Showers, Edwardo conducting repairs, investigation.
Wed	27-Feb	58	84	10	1:00	2,4,5,7,8	rain,mist till 4PM . test Flight OK, returned due wind. Wx day
Thu	28-Feb	59			1:00	2,4,5,7,8	rain,mist all day, no production Wx day
Fri	1-Mar	60			1:00	2,4,5,7,8	rain,mist all day, no production Wx day
Sat	2-Mar	61	85, 86	138	3:42	2,4,5,7,8	cloud till 11 AM, Sine wave noise, changed bungies, test, 6K steps
Sun	3-Mar	62	87		1:00	2,4,5,7,8	Rain, low cloud, repairs to bolts 5Pm test flt OK
Mon	4-Mar	63	88,89,90	344	7:30	2,4,5,7,8	Perfect WX, data shows small noise & manouvre features
Tue	5-Mar	64	91,92	176	4:00	2,4,5,7,8	Perfect WX, F91 data steps & Large Noise, change cable F92 bad.
Wed	6-Mar	65			1:00	2,4,5,7,8	Ok Wx, Edwardo conducting repairs.
Thu	7-Mar	66					
Fri	8-Mar	67					
Sat	9-Mar	68					
Sun	10-Mar	69					
Mon	11-Mar	70					
Tue	12-Mar	71					
Wed	13-Mar	72					
Thu	14-Mar	73					

Planned Km	15600.2	63.72%
Previous Total	9210.0	
Total Km flown	9940.0	
Remaining Km	5660.2	
Previous Helicopter Hours	5:00	
Total Helicopter Hours	36:12	

- Notes:**
- Personnel Key 1 Zoltan Beldi
 - 2 Anton Rada
 - 3 Patrick Healy
 - 4 Tony Feller
 - 5 Rob Ried
 - 6 Jim Ladd
 - 7 Max Icorn
 - 8 Edwardo from GeoTech

JOB STATUS REPORT - J2113 TASMANIA

TO:	Davin Allen	FAX: 08 92736466	CC:	Zoltan Beldi	
FROM:	Anton Rada				
AREA:	DATE: 3/4/02				

DAY	DATE	DOY	FLT#	KMS	Hr:m	Pers.	REMARKS
Tue	26-Mar	85			1:00	1,2,4,5	Wx Low cloud AM, High winds PM, Heli tail tighten 1/2 WX Day
Wed	27-Mar	86	99,101,102	220.9	4:48	2,4,5	WX Low cloud AM, 2 flights PM 1/2 WX Day
Thu	28-Mar	87	103	11	1:00	2,4,5	WX AM rain, drizzle low cloud PM WX Day
Fri	29-Mar	88	104	66	2:00	2,4,5	WX AM rain, drizzle low cloud PM WX Day
Sat	30-Mar	89	105		1:00	2,4,5	WX AM rain, drizzle PM WX Day
Sun	31-Mar	90	106, 107	293	6:30	2,4,5	Good WX, 2 flights
Mon	1-Apr	91	108, 109, 110	260	8:06	2,4,5	Good WX, 3 flights, 34K problems
Tue	2-Apr	92	111, 112	106	4:50	2,4,5	OK WX AM, wind late PM, Transmitter Voltage adjust
Wed	3-Apr	93	113	20	1:24	2,4,5	early flight, RTB due wind, rain 9AM. WX Day
Thu	4-Apr	94			1:00	2,4,5	Wx AM showers, High winds PM WX Day
Fri	5-Apr	95			1:00	2,4,5	WX AM rain, drizzle low cloud PM WX Day
Sat	6-Apr	96			1:00	2,4,5	WX AM rain, drizzle low cloud PM WX Day
Sun	7-Apr	97	114, 115, 116	251	6:42	2,4,5,9	WX OK, 3 Flights, A3 complete, A4 started
Mon	8-Apr	98	117		1:00	2,4,5,9	Clear day, RTB due high wind WX Day
Tue	9-Apr	99	118,119	370	6:00	2,4,5,9	high wind 2 flights refuel @ Savage Riv
Wed	10-Apr	100			1:24	2,4,5,9	Rain drizzle AM, relocate to Marrawah PM 1/2 WX Day
Thu	11-Apr	101	120,121	336	4:48	2,4,5,9	Cloud buildup PM, OK
Fri	12-Apr	102			1:00	4,5,9	fog, low cloud AM, PM, no calcs possible WX Day
Sat	13-Apr	103	122,123	571	5:54	4,5,9	Windy but fine, OK
Sun	14-Apr	104	124, 125,126	478	7:12	2,4,5,9	All OK
Mon	15-Apr	105	127,128	494	6:06	2,4,5,9	All OK, Tracking failure
Tue	16-Apr	106	129,130,131	564	7:12	2,4,5,9	All OK
Wed	17-Apr	107	132,133	568	5:54	2,4,5,9	All OK, New tracking unit installed, Tracking Web site down!
Thu	18-Apr	108			1:00	2,4,5,9	100 hr service on heli.
Fri	19-Apr	109	134,135	392	5:12	2,4,5,9	Last 2 flights, Area 4 complete
Sat	20-Apr	110				2,4,5,9	Relocate to Sheffield, Refly A1 infill.
Sun	21-Apr	111					
Mon	22-Apr	112					
Tue	23-Apr	113					
Wed	24-Apr	114					
Thu	25-Apr	115					

Proposed Total	15600.2	100.00%
Previous Total	9940.0	
Total Km flown	15600.0	
Remaining Km	0.2	
Previous Helicopter Hours	249:50	approx
Total Helicopter Hours	355:00	

Notes:

Personnel Key	1	Zoltan Beldi
-----	2	Anton Rada
-----	4	Tony Feller
-----	5	Rob Ried
-----	8	Edwardo from GeoTech
-----	9	Mathew Grey

FLIGHT LOG FOR FLIGHT 01 DOY 315 LocalTime 09:57:11 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0100110	0 10:07:07	442869	5419064		
			251 10:09:13	442869	5419064	0.000	251
PRE.TEST	2	E0100211	251 10:45:15	432689	5413471		
			361 10:46:10	432679	5411510	1.961	220
TRAVERSE	120	L0112011	361 10:49:53	433922	5406632		
			821 10:53:43	433921	5403705	2.927	293
TRAVERSE	119	L0111911	821 10:55:11	433709	5403097		
			1351 10:59:36	433718	5407324	4.227	318
TRAVERSE	118	L0111811	1351 11:01:09	433516	5407947		
			1611 11:03:18	433515	5406723	1.224	234
PER.ALTB	3	F0100311	1611 11:03:57	433952	5407380		
			1736 11:04:59	435899	5409019	2.545	250
TIE.LINE	2	T0100211	1736 11:08:21	433408	5408163		
			3456 11:22:41	416638	5408163	16.770	1831
TIE.LINE	3	T0100311	3456 11:25:52	414238	5406166		
			3581 11:26:54	415130	5406170	0.892	93
PER.ALTB	3	F0100312	3581 11:27:45	414920	5405071		
			3686 11:28:38	413681	5403926	1.687	211
TIE.LINE	3	T0100312	3686 11:31:09	414248	5406162		
			5791 11:48:42	434104	5406166	19.856	1667
PER.ALTB	3	C0100311	5791 11:49:18	434971	5406912		
			5906 11:50:15	436181	5408592	2.070	230
TIE.LINE	4	T0100411	5906 11:54:10	434012	5404163		
			7906 12:10:50	411791	5404162	22.221	1705
PER.ALTB	3	C0100312	7906 12:12:01	409260	5403796		
			8071 12:13:23	408263	5402228	1.858	330
TIE.LINE	5	T0100511	8071 12:16:34	409895	5402182		
			9966 12:32:22	433433	5402168	23.538	1701
PER.ALTB	3	C0100313	9966 12:33:12	435084	5401701		
			10086 12:34:12	435459	5400176	1.570	240
TIE.LINE	6	T0100611	10086 12:36:03	432741	5400164		
			11586 12:48:33	409892	5400160	22.849	1356
PER.ALTB	3	C0100314	11586 12:49:58	407199	5399739		
			11726 12:51:08	406385	5398377	1.587	280
TRAVERSE	1	L0100112	11726 12:54:13	410108	5399963		
			11906 12:55:48	409803	5401558	1.624	190
PER.ALTB	3	C0100315	11906 12:58:02	407999	5396880		
			12046 12:59:12	408804	5394933	2.107	280
TRAVERSE	1	L0100113	12046 13:01:31	410110	5399960		
			12306 13:03:41	410110	5402885	2.925	182
TRAVERSE	2	L0100211	12306 13:04:57	410314	5403012		
			12581 13:07:14	410316	5399799	3.213	119
TRAVERSE	3	L0100311	12581 13:08:17	410509	5399713		
			12896 13:10:54	410510	5403210	3.497	162
TRAVERSE	4	L0100411	12896 13:12:09	410714	5403349		
			13251 13:15:06	410716	5399545	3.804	176
TRAVERSE	5	L0100511	13251 13:16:58	410911	5399473		
			13606 13:19:55	410907	5403547	4.074	175
PER.ALTB	3	C0100316	13606 13:21:18	409331	5404774		
			13716 13:22:13	410388	5406205	1.779	220
TIE.LINE	1	T0100112	13716 13:27:06	420671	5410089		
			14991 13:37:44	432884	5410086	12.213	826
PER.ALTB	3	C0100317	14991 13:38:14	433749	5410164		
			15171 13:39:44	436203	5412436	3.344	360

FLIGHT LOG FOR FLIGHT 02 DOY 316 LocalTime 09:27:30 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
TRAVERSE 6	L0200611	0	09:41:17	437874	5417068		
		1	09:41:17	437859	5417050	0.023	4
PER.ALTB 3	C0200312	1	09:42:34	435685	5414297		
		121	09:43:34	434078	5412307	2.558	240
TRAVERSE 118	L0211812	121	09:46:12	433517	5407938		
		756	09:51:29	433516	5402349	5.589	448
TRAVERSE 117	L0211711	756	09:52:39	433314	5401782		
		1431	09:58:17	433314	5408663	6.881	393
TRAVERSE 116	L0211611	1431	09:59:45	433130	5409296		
		2371	10:07:35	433118	5401057	8.239	699
PER.ALTB 3	C0200311	2371	10:08:18	433541	5399577		
		2486	10:09:15	433155	5399021	0.677	230
TRAVERSE 115	L0211511	2486	10:10:53	432918	5400433		
		3426	10:18:43	432912	5409980	9.547	632
TRAVERSE 114	L0211411	3426	10:19:57	432718	5410290		
		4446	10:28:27	432712	5399988	10.302	582
TRAVERSE 113	L0211311	4446	10:29:39	432514	5399943		
		5391	10:37:31	432514	5410310	10.367	572
PER.ALTB 3	C0200313	5391	10:38:24	432973	5410674		
		5511	10:39:24	433495	5409763	1.050	240
TRAVERSE 112	L0211211	5511	10:41:48	432332	5410307		
		6506	10:50:05	432310	5399831	10.476	712
TRAVERSE 111	L0211111	6506	10:51:11	432110	5399801		
		7336	10:58:06	432047	5410297	10.496	728
TRAVERSE 110	L0211011	7336	10:58:55	431915	5410287		
		8291	11:06:53	431914	5399669	10.618	693
PER.ALTB 3	C0200314	8291	11:07:31	432034	5398549		
		8406	11:08:28	432455	5396880	1.721	230
TRAVERSE 109	L0210911	8406	11:10:34	431713	5399624		
		9296	11:17:59	431711	5410318	10.694	754
TRAVERSE 108	L0210811	9296	11:18:59	431562	5410276		
		10286	11:27:14	431514	5399467	10.809	697
TRAVERSE 107	L0210711	10286	11:29:43	431313	5399462		
		10806	11:34:03	431387	5407221	7.759	493
PER.ALTB 3	C0200315	0	11:39:45	430744	5407548		
		111	11:40:41	432057	5408830	1.835	223
TRAVERSE 107	L0210712	111	11:43:33	431253	5409353		
		826	11:49:31	431310	5399348	10.005	747
TRAVERSE 106	L0210611	826	11:50:26	431111	5399381		
		1626	11:57:06	431139	5410340	10.959	769
TRAVERSE 105	L0210511	1626	11:58:35	430916	5410302		
		1736	11:59:30	431075	5409155	1.158	141
TRAVERSE 104	L0210411	1736	12:00:18	430859	5408510		
		1966	12:02:13	430609	5407078	1.454	295
TRAVERSE 104	L0210412	1966	12:03:30	430687	5408918		
		2221	12:05:38	430770	5406743	2.177	329
PER.ALTB 3	C0200316	2221	12:06:40	432216	5408033		
		2336	12:07:37	433439	5410456	2.714	230

FLIGHT LOG FOR FLIGHT 03 DOY 316 LocalTime 08:59:36 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal 1	A0300110	0	09:13:55	442866	5419065		
		251	09:16:01	442866	5419065	0.000	251
PER.ALTB 3	C0300312	0	14:10:06	438381	5417597		
		121	14:11:06	436535	5415287	2.957	242
TRAVERSE 105	L0310512	121	14:14:24	430903	5408869		
		911	14:20:59	430792	5399379	9.491	1044
TRAVERSE 104	L0310413	911	14:21:06	430738	5399271		
		926	14:21:13	430702	5399146	0.130	86

FLIGHT LOG FOR FLIGHT 04 DOY 317 LocalTime 07:59:13 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0400110	0 08:03:05	442867	5419064		
			216 08:04:53	442867	5419064	0.000	216
PER.ALTB	3	C0400313	216 08:25:50	434095	5418151		
			341 08:26:52	432396	5415677	3.001	250
TRAVERSE	105	L0410513	341 08:30:27	430900	5408876		
			1036 08:36:15	430915	5399194	9.682	543
TRAVERSE	104	L0410414	1036 08:37:19	430717	5399180		
			1836 08:43:59	430713	5410334	11.154	571
TRAVERSE	103	L0410311	1836 08:45:03	430515	5410291		
			2786 08:52:58	430513	5399074	11.217	727
PER.ALTB	3	C0400311	2786 08:53:47	430465	5397570		
			2916 08:54:52	430485	5395794	1.776	260
TRAVERSE	102	L0410211	2916 08:56:53	430312	5399029		
			3826 09:04:28	430315	5410349	11.320	889
TRAVERSE	101	L0410111	3826 09:05:27	430114	5410281		
			4836 09:13:52	430114	5398878	11.403	748
TRAVERSE	100	L0410011	4836 09:14:40	429915	5398842		
			5766 09:22:25	429913	5410350	11.508	909
PER.ALTB	3	C0400312	5766 09:23:06	429884	5411638		
			5891 09:24:08	430505	5413555	2.015	250
TRAVERSE	99	L0409911	5891 09:26:26	429716	5410266		
			6861 09:34:31	429715	5398730	11.536	796
TRAVERSE	98	L0409811	6861 09:35:21	429511	5398687		
			7761 09:42:51	429510	5410321	11.634	819
TRAVERSE	97	L0409711	7761 09:43:56	429310	5410298		
			8771 09:52:21	429324	5398570	11.728	894
PER.ALTB	3	C0400314	8771 09:53:13	429672	5397336		
			8911 09:54:23	429353	5395475	1.888	280
TRAVERSE	96	L0409611	8911 09:56:31	429120	5398516		
			9821 10:04:06	429117	5410312	11.796	842
TRAVERSE	95	L0409511	9821 10:05:18	428917	5410296		
			10846 10:13:51	428913	5398396	11.900	890
TRAVERSE	94	L0409411	10846 10:14:32	428705	5398340		
			11841 10:22:50	428706	5410371	12.031	869
PER.ALTB	3	C0400315	11841 10:23:42	429630	5411728		
			11976 10:24:49	431308	5413581	2.500	270
TRAVERSE	93	L0409311	11976 10:27:10	428511	5410272		
			13191 10:37:18	428520	5397540	12.732	990
PER.ALTB	3	C0400316	13191 10:39:44	428578	5394088		
			13316 10:40:46	427566	5393949	1.022	250
TRAVERSE	92	L0409211	13316 10:42:45	428315	5398186		
			14326 10:51:10	428311	5410359	12.173	1017
TRAVERSE	91	L0409111	14326 10:52:15	428117	5410293		
			15311 11:00:28	428112	5398038	12.255	1169
TRAVERSE	90	L0409011	15311 11:01:11	427923	5397995		
			16211 11:08:41	427912	5410325	12.330	969
PER.ALTB	3	C0400317	16211 11:09:14	428436	5411551		
			16371 11:10:34	431445	5414201	4.010	320

FLIGHT LOG FOR FLIGHT 06 DOY 318 LocalTime 07:46:10 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0600110	0 07:56:14	442867	5419066		
			186 07:57:47	442869	5419064	0.003	186
PER.ALTB	3	C0600312	186 08:10:42	436753	5420149		
			306 08:11:42	434513	5418897	2.566	237
TIE.LINE	4	T0600412	306 08:19:42	434017	5404158		
			596 08:22:07	430064	5404161	3.953	237

TIE.LINE	4	T0600413	596	08:22:56	429805	5404165		
			841	08:24:58	434034	5404168	4.229	218
PER.ALTB	3	C0600311	841	08:26:20	432308	5404150		
			961	08:27:20	430819	5402199	2.454	240
TRAVERSE	81	L0608111	0	08:31:54	426116	5397250		
			1171	08:41:40	426112	5410326	13.076	1131
TRAVERSE	80	L0608011	1171	08:42:49	425918	5410275		
			2436	08:53:22	425917	5397090	13.185	1183
PER.ALTB	3	C0600313	2436	08:54:30	426082	5395743		
			2551	08:55:27	427036	5394310	1.722	230
TRAVERSE	79	L0607911	2551	08:58:22	425710	5397060		
			3641	09:07:32	425714	5410371	13.311	1045
TRAVERSE	78	L0607811	3641	09:09:01	425518	5410279		
			4866	09:19:14	425513	5396911	13.368	1034
PER.ALTB	3	C0600314	4866	09:20:01	426282	5397154		
			4981	09:20:58	427240	5396115	1.413	230
TRAVERSE	77	L0607711	4981	09:23:36	425315	5396881		
			6156	09:33:24	425312	5410350	13.469	1018
TRAVERSE	76	L0607611	6156	09:34:21	425115	5410273		
			7316	09:44:02	425115	5396753	13.520	1039
PER.ALTB	3	C0600315	7316	09:44:48	425979	5397105		
			7476	09:46:08	426807	5395534	1.776	320
TRAVERSE	75	L0607511	7476	09:48:22	424910	5396707		
			8481	09:56:45	424916	5410321	13.614	1035
TRAVERSE	74	L0607411	8481	09:57:56	424719	5410290		
			9556	10:06:54	424713	5396660	13.630	994
TRAVERSE	73	L0607311	9556	10:07:44	424510	5396675		
			10551	10:16:02	424508	5410369	13.694	1026
PER.ALTB	3	C0600316	10551	10:16:26	424548	5411171		
			10671	10:17:26	424821	5413336	2.182	240
TRAVERSE	72	L0607211	10671	10:20:24	424317	5410275		
			10921	10:22:29	424285	5406811	3.464	170
PER.ALTB	3	C0600317	0	10:24:46	423341	5411933		
			116	10:25:44	424668	5412507	1.446	232
TRAVERSE	72	L0607212	116	10:27:53	424318	5410265		
			1031	10:35:31	424306	5396620	13.645	711
TRAVERSE	71	L0607111	1031	10:36:26	424130	5396681		
			1966	10:44:14	424106	5410381	13.700	873
PER.ALTB	3	C0600318	1966	10:45:11	424758	5412451		
			2126	10:46:31	427152	5415002	3.498	320

FLIGHT LOG FOR FLIGHT 07 DOY 318 LocalTime 13:12:49 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C0700311	0	13:26:38	433138	5416729	
			131	13:27:43	431167	5414191	3.213
TRAVERSE	70	L0707011	131	13:31:57	423912	5410292	
			1111	13:40:07	423918	5396672	13.620
TRAVERSE	69	L0706911	1111	13:41:35	423711	5396709	
			2056	13:49:28	423708	5410314	13.605
PER.ALTB	3	C0700312	2056	13:49:58	423827	5411200	
			2171	13:50:55	424272	5413195	2.044
TRAVERSE	68	L0706811	2171	13:52:48	423512	5410295	
			3176	14:01:11	423515	5396658	13.637
TRAVERSE	67	L0706711	3176	14:02:20	423314	5396733	
			4111	14:10:08	423312	5410310	13.577
TRAVERSE	66	L0706611	4111	14:10:55	423116	5410298	
			5221	14:20:10	423118	5396712	13.586
PER.ALTB	3	C0700313	5221	14:20:54	423498	5396271	
			5336	14:21:51	424847	5396254	1.349
TRAVERSE	65	L0706511	5336	14:23:57	422922	5396755	
			6296	14:31:57	422911	5410327	13.572
TRAVERSE	64	L0706411	6296	14:32:45	422716	5410288	
			7356	14:41:35	422722	5396706	13.582
TRAVERSE	63	L0706311	7356	14:42:57	422510	5396762	

			8411	14:51:45	422509	5410322	13.560	658
PER.ALTB	3	C0700314	8411	14:52:13	422518	5411339		
			8526	14:53:10	422640	5413474	2.138	230
TRAVERSE	62	L0706211	8526	14:55:22	422316	5410280		
			9591	15:04:15	422315	5396709	13.571	594
TRAVERSE	61	L0706111	9591	15:06:06	422112	5396784		
			10556	15:14:09	422112	5410370	13.586	713
TRAVERSE	60	L0706011	10556	15:15:09	421914	5410287		
			11666	15:24:24	421914	5396759	13.528	741
PER.ALTB	3	C0700315	11666	15:25:47	422038	5395647		
			11796	15:26:52	422157	5395434	0.244	261
TRAVERSE	59	L0705911	11796	15:29:35	421712	5396797		
			12941	15:39:07	421711	5410317	13.520	691
TRAVERSE	58	L0705811	12941	15:39:59	421520	5410274		
			14106	15:49:41	421514	5396747	13.527	811
TRAVERSE	57	L0705711	14106	15:50:32	421316	5396813		
			15096	15:58:47	421309	5410323	13.510	807
PER.ALTB	3	C0700316	15096	15:59:26	421007	5411833		
			15221	16:00:28	423112	5412605	2.242	250
PSTQ.CAL	5	H0700511	15221	16:14:43	442867	5419064		
			15246	16:14:56	442867	5419064	0.000	25
PSTQ.CAL	5	H0700510	0	16:39:56	442866	5419064		
			296	16:42:24	442867	5419064	0.001	296

FLIGHT LOG FOR FLIGHT 08 DOY 319 LocalTime 13:01:28 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0800110	0 13:09:45	442867	5419064		
			226 13:11:38	442867	5419064	0.000	226
PER.ALTB	3	C0800311	226 13:37:20	439614	5420767		
			366 13:38:30	436884	5420252	2.778	280
TRAVERSE	56	L0805611	366 13:47:10	421114	5410280		
			1401 13:55:48	421121	5398419	11.861	614 Part
Line							
PER.ALTB	3	C0800312	1401 13:57:07	419283	5397548		
			1621 13:58:57	415429	5397296	3.862	441
TRAVERSE	6	L0800612	1621 14:01:51	411115	5399359		
			1906 14:04:13	411110	5403711	4.352	131
TRAVERSE	7	L0800711	1906 14:05:12	411313	5403837		
			2241 14:07:59	411317	5399200	4.637	77
TRAVERSE	8	L0800811	2241 14:09:01	411513	5399151		
			2561 14:11:41	411514	5404051	4.900	60
TRAVERSE	9	L0800911	2561 14:15:09	411712	5404182		
			2906 14:18:01	411713	5398911	5.271	170
PER.ALTB	3	C0800313	2906 14:18:56	411132	5397985		
			3036 14:20:01	410623	5398008	0.510	260
TRAVERSE	10	L0801011	3036 14:21:38	411910	5398891		
			3376 14:24:28	411917	5404373	5.482	203
TRAVERSE	11	L0801111	3376 14:27:31	412113	5404515		
			3746 14:30:36	412110	5398698	5.817	205
TRAVERSE	12	L0801211	3746 14:31:31	412316	5398646		
			4101 14:34:28	412316	5404735	6.089	260
TRAVERSE	13	L0801311	4101 14:35:53	412517	5404840		
			4531 14:39:28	412510	5398432	6.408	348
TRAVERSE	14	L0801411	4531 14:40:21	412717	5398402		
			4936 14:43:44	412718	5405028	6.626	271
TRAVERSE	15	L0801511	4936 14:45:04	412912	5405176		
			5376 14:48:44	412912	5398256	6.920	335
PER.ALTB	3	C0800314	5376 14:50:01	413564	5399135		
			5641 14:52:13	420813	5400829	7.444	530
TIE.LINE	4	T0800414	5641 14:57:07	434021	5404167		
			5911 14:59:22	429818	5404167	4.203	233 Test
PER.ALTB	3	C0800315	5911 14:59:52	429342	5405132		
			6061 15:01:08	430572	5408719	3.792	301
PSTQ.CAL	5	H0800515	6061 15:14:31	442866	5419064		
			6241 15:16:02	442866	5419064	0.000	180

FLIGHT LOG FOR FLIGHT 09 DOY 320 LocalTime 08:17:00 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0900110	0 08:17:13	442866	5419064		
			211 08:18:58	442866	5419064	0.000	211
PER.ALTB	3	C0900312	211 08:33:09	436073	5419932		
			326 08:34:06	434105	5417961	2.785	228
TRAVERSE	82	L0908212	326 08:43:17	426317	5409439		
			636 08:45:52	426312	5414732	5.293	61
TESTLINE							
TRAVERSE	82	L0908213	636 08:46:32	426316	5415239		
			1151 08:50:49	426301	5407614	7.625	245
TESTLINE							
PER.ALTB	3	C0900311	1151 08:52:04	423816	5407520		
			1266 08:53:02	421253	5406636	2.711	230
TRAVERSE	16	L0901611	1266 08:57:59	413110	5398179		
			1691 09:01:32	413113	5405352	7.173	189
TRAVERSE	17	L0901711	1691 09:02:24	413311	5405502		
			2136 09:06:06	413315	5397957	7.545	250
TRAVERSE	18	L0901811	2136 09:06:47	413514	5397919		
			2551 09:10:14	413510	5405714	7.795	203
TRAVERSE	19	L0901911	2551 09:11:05	413711	5405817		
			2981 09:14:40	413717	5397748	8.069	307
TRAVERSE	20	L0902011	2981 09:15:23	413913	5397699		
			3421 09:19:03	413914	5406062	8.363	276
PER.ALTB	3	C0900313	3421 09:19:40	414054	5407110		
			3531 09:20:35	413781	5408078	1.006	220
TRAVERSE	21	L0902111	3531 09:21:50	414114	5406155		
			4031 09:26:00	414117	5397483	8.672	349
TRAVERSE	22	L0902211	4031 09:26:53	414313	5397437		
			4511 09:30:53	414311	5406360	8.923	190
TRAVERSE	23	L0902311	4511 09:31:54	414519	5406495		
			5046 09:36:21	414517	5397254	9.241	285
TRAVERSE	24	L0902411	5046 09:37:05	414712	5397207		
			5566 09:41:25	414711	5406693	9.486	306
TRAVERSE	25	L0902511	5566 09:42:10	414916	5406798		
			6151 09:47:02	414918	5396993	9.805	298
PER.ALTB	3	C0900314	6151 09:47:32	414900	5395967		
			6266 09:48:30	414656	5394194	1.790	231
TRAVERSE	26	L0902611	6266 09:50:48	415111	5397079		
			6786 09:55:08	415116	5407068	9.989	266
TRAVERSE	27	L0902711	6786 09:55:54	415313	5407151		
			7421 10:01:12	415321	5396966	10.185	341
TRAVERSE	28	L0902811	7421 10:02:09	415511	5397073		
			8051 10:07:24	415512	5407386	10.313	379
TRAVERSE	29	L0902911	8051 10:08:17	415715	5407481		
			8701 10:13:42	415713	5396948	10.533	301
PER.ALTB	3	C0900315	8701 10:14:04	415690	5395972		
			8821 10:15:04	415169	5393653	2.377	240
TRAVERSE	30	L0903011	8821 10:17:13	415911	5397048		
			9441 10:22:23	415914	5407683	10.635	208
TRAVERSE	31	L0903111	9441 10:23:07	416115	5407806		
			9841 10:26:27	416120	5400858	6.948	184
SCRUB Hum dropout							
PER.ALTB	3	C0900316	0 10:28:29	416096	5395653		
			126 10:29:32	415239	5393244	2.557	252
TRAVERSE	31	L0903112	126 10:32:11	416107	5397047		
			791 10:37:43	416112	5407879	10.832	333
TRAVERSE	32	L0903211	791 10:38:31	416315	5407972		
			1406 10:43:39	416315	5396985	10.987	306
TRAVERSE	33	L0903311	1406 10:44:36	416515	5397041		
			2091 10:50:19	416512	5408156	11.115	279
TRAVERSE	34	L0903411	2091 10:51:06	416712	5408293		
			2726 10:56:24	416716	5396968	11.325	317

PER.ALTB	3	C0900317	2726	10:56:45	416730	5396128		
			2841	10:57:42	417298	5395578	0.791	230
TRAVERSE	35	L0903511	2841	10:58:39	416912	5397014		
			3546	11:04:32	416910	5408537	11.523	322
TRAVERSE	36	L0903611	3546	11:05:17	417117	5408637		
			4211	11:10:50	417115	5396880	11.757	403
TRAVERSE	37	L0903711	4211	11:11:48	417312	5397006		
			4936	11:17:51	417310	5408815	11.809	504
PER.ALTB	3	C0900318	4936	11:18:21	417885	5409089		
			5046	11:19:16	420445	5408449	2.639	221
TRAVERSE	82	L0908214	5046	11:22:15	426314	5407534		
			5586	11:26:45	426313	5414725	7.191	241
TESTLINE								
PER.ALTB	3	C0900319	5586	11:27:06	426618	5415493		
			5701	11:28:03	429051	5415900	2.467	231

FLIGHT LOG FOR FLIGHT 10 DOY 320 LocalTime 13:51:22 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1000315	0 13:59:20	434839	5419250		
			111 14:00:15	433437	5416938	2.704	220
TRAVERSE	82	L1008215	111 14:04:03	426316	5414908		
			656 14:08:36	426318	5407653	7.255	193
TESTLINE							
PER.ALTB	3	C1000311	656 14:13:49	417685	5396203		
			761 14:14:42	417106	5394034	2.245	211
TRAVERSE	38	L1003811	761 14:17:24	417508	5396989		
			1586 14:24:17	417512	5408985	11.996	506
TRAVERSE	39	L1003911	1586 14:25:09	417711	5409128		
			2416 14:32:04	417715	5396888	12.240	430
TRAVERSE	40	L1004011	2416 14:33:03	417915	5396975		
			3356 14:40:53	417914	5409334	12.359	215
PER.ALTB	3	C1000312	3356 14:41:13	417935	5410021		
			3476 14:42:13	418325	5412040	2.056	240
TRAVERSE	41	L1004111	3476 14:44:04	418111	5409339		
			4346 14:51:19	418111	5396912	12.427	383
TRAVERSE	42	L1004211	4346 14:52:19	418315	5396955		
			5276 15:00:04	418313	5409494	12.539	329
TRAVERSE	43	L1004311	5276 15:00:58	418514	5409478		
			6191 15:08:36	418515	5396855	12.623	486
PER.ALTB	3	C1000313	6191 15:09:01	418445	5395829		
			6306 15:09:58	416802	5394472	2.131	230
TRAVERSE	44	L1004411	6306 15:12:39	418715	5396930		
			7286 15:20:49	418711	5409597	12.667	322
TRAVERSE	45	L1004511	7286 15:21:36	418915	5409603		
			8136 15:28:41	418920	5396882	12.721	478
TRAVERSE	46	L1004611	8136 15:29:35	419109	5396890		
			9111 15:37:43	419110	5409752	12.862	509
PER.ALTB	3	C1000314	9111 15:38:15	419128	5410812		
			9226 15:39:12	419409	5412339	1.553	230
TRAVERSE	47	L1004711	9226 15:40:45	419316	5409711		
			10121 15:48:13	419314	5396862	12.849	491
TRAVERSE	48	L1004811	10121 15:49:06	419382	5396862		
			10121 15:49:06	419382	5396862	0.000	4
SCRUB							
PER.ALTB	3	C1000316	10121 15:50:45	419943	5395317		
			10236 15:51:42	419800	5396054	0.751	230
TRAVERSE	49	L1004911	10236 15:52:42	419711	5396886		
			11136 16:00:12	419716	5409941	13.055	503
TRAVERSE	50	L1005011	11136 16:01:06	419917	5409929		
			11916 16:07:36	419913	5396776	13.153	691
TRAVERSE	51	L1005111	11916 16:08:40	420118	5396883		
			12771 16:15:47	420115	5410049	13.166	487
PER.ALTB	3	C1000317	12771 16:16:16	420117	5410903		

			12931	16:17:36	420636	5411422	0.734	320
TRAVERSE	48	L1004812	12931	16:19:18	419511	5409791		
			13836	16:26:51	419514	5396858	12.933	572
TRAVERSE	52	L1005211	13836	16:28:05	420313	5396871		
			14756	16:35:45	420317	5410115	13.244	313
PER.ALTB	3	C1000318	14756	16:36:29	421291	5411146		
			14871	16:37:26	421732	5413180	2.081	230
TRAVERSE	82	L1008216	14871	16:40:16	426312	5415171		
			15421	16:44:51	426306	5407546	7.625	203
TESTLINE								
TRAVERSE	82	L1008217	15421	16:45:03	426309	5407520		
			15981	16:49:43	426316	5414759	7.239	134
TESTLINE								
PER.ALTB	3	C1000319	15981	16:50:21	427595	5415375		
			16116	16:51:28	430865	5414933	3.300	270
PSTQ.CAL	5	H1000511	16116	17:04:27	442866	5419064		
			16346	17:06:22	442867	5419064	0.001	230

FLIGHT LOG FOR FLIGHT 11 DOY 323 LocalTime 08:34:41 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1100110	0 08:46:28	442866	5419064		
			236 08:48:26	442866	5419064	0.000	236
PER.ALTB	3	C1100318	236 09:33:28	432696	5415920		
			356 09:34:27	431096	5413458	2.936	240
TRAVERSE	82	L1108218	356 09:37:20	426317	5412094		
			776 09:40:50	426318	5407581	4.513	215
TRAVERSE	82	L1108219	776 09:41:10	426301	5407579		
			1131 09:44:07	426312	5410865	3.286	167
PER.ALTB	3	C1100311	1131 09:44:47	425448	5411797		
			1241 09:45:42	423053	5412718	2.566	221
TRAVERSE	53	L1105311	1241 09:48:02	420516	5410141		
			2391 09:57:38	420515	5396774	13.367	758
TRAVERSE	54	L1105411	2391 09:58:38	420711	5396852		
			3226 10:05:35	420713	5410255	13.403	584
PER.ALTB	3	C1100312	3226 10:06:03	420671	5411376		
			3336 10:06:58	420535	5413373	2.002	220
TRAVERSE	55	L1105511	3336 10:09:11	420916	5410287		
			4316 10:17:21	420918	5396788	13.499	801
TRAVERSE	56	L1105612	4316 10:18:17	421113	5396853		
			4341 10:18:29	421115	5397412	0.559	26
TRAVERSE	56	L1105613	4341 10:21:23	421113	5403099		
			4756 10:24:50	421113	5396756	6.343	456
PER.ALTB	3	C1100313	4756 10:25:30	421938	5396470		
			4866 10:26:25	422752	5398624	2.303	220
PER.ALTB	3	C1100310	0 12:07:16	424024	5411222		
			111 12:08:12	425305	5413107	2.279	223
TRAVERSE	82	L1108210	111 12:09:15	426312	5412714		
			531 12:12:45	426319	5407589	5.125	212
TRAVERSE	82	L1108211	531 12:13:00	426296	5407612		
			846 12:15:37	426313	5411437	3.825	194
PER.ALTB	3	C1100314	846 12:16:18	426902	5412512		
			966 12:17:18	429339	5411842	2.527	240

FLIGHT LOG FOR FLIGHT 12 DOY 323 LocalTime 10:26:46 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1200321	0 10:27:00	422901	5400318		
			116 10:27:58	421879	5402746	2.634	232
TIE.LINE	4	T1200421	116 10:31:22	417899	5408185		
			961 10:38:25	427347	5408182	9.448	602
TIE.LINE	3	T1200321	961 10:42:30	427330	5406783		

			1646	10:48:13	417885	5406787	9.445	489
PER.ALTB	3	C1200322	1646	10:48:41	417068	5406668		
			1761	10:49:38	415679	5405798	1.639	230
TIE.LINE	2	T1200221	1761	10:51:50	417901	5407282		
			2571	10:58:35	427343	5407287	9.442	634
TIE.LINE	1	T1200121	2571	11:01:16	427323	5407787		
			3256	11:06:58	417831	5407777	9.492	512
PER.ALTB	3	C1200323	3256	11:07:34	417148	5407396		
			3371	11:08:31	415864	5407376	1.284	230
TRAVERSE	1	L1200121	3371	11:11:13	418217	5408399		
			3561	11:12:48	418214	5406524	1.875	104
TRAVERSE	2	L1200221	3561	11:13:48	418413	5406587		
			3706	11:15:00	418413	5408424	1.837	41
TRAVERSE	3	L1200321	3706	11:15:52	418615	5408391		
			3886	11:17:22	418611	5406531	1.860	92
TRAVERSE	4	L1200421	3886	11:18:11	418800	5406585		
			3996	11:19:07	418812	5408413	1.828	33
TRAVERSE	5	L1200521	3996	11:19:58	419014	5408389		
			4131	11:21:05	419011	5406528	1.861	81
TRAVERSE	6	L1200621	4131	11:21:47	419209	5406597		
			4226	11:22:34	419211	5408420	1.823	95
TRAVERSE	7	L1200721	4226	11:23:21	419413	5408373		
			4366	11:24:31	419420	5406548	1.825	162
TRAVERSE	8	L1200821	4366	11:25:22	419609	5406600		
			4486	11:26:22	419613	5408425	1.825	90
TRAVERSE	9	L1200921	4486	11:27:20	419816	5408376		
			4626	11:28:30	419820	5406506	1.870	108
TRAVERSE	10	L1201021	4626	11:29:14	420002	5406589		
			4741	11:30:11	420012	5408417	1.828	82
TRAVERSE	11	L1201121	4741	11:31:07	420217	5408389		
			4871	11:32:12	420215	5406541	1.848	102
TRAVERSE	12	L1201221	4871	11:33:04	420413	5406580		
			4991	11:34:04	420413	5408412	1.832	79
PER.ALTB	3	C1200324	4991	11:34:41	420419	5409286		
			5171	11:36:11	420609	5412361	3.081	360
TRAVERSE	13	L1201321	5171	11:39:28	420615	5408399		
			5321	11:40:43	420612	5406556	1.843	166
TRAVERSE	13	L1201322	5321	11:41:58	420609	5406612		
			5426	11:42:50	420609	5408436	1.824	95
TRAVERSE	14	L1201421	5426	11:43:48	420810	5408396		
			5551	11:44:50	420814	5406526	1.870	69
TRAVERSE	15	L1201521	5551	11:45:41	421006	5406599		
			5651	11:46:31	421010	5408419	1.820	93
TRAVERSE	16	L1201621	5651	11:47:26	421212	5408375		
			5766	11:48:23	421228	5406415	1.960	115
TRAVERSE	17	L1201721	5766	11:49:15	421408	5406597		
			5866	11:50:05	421412	5408448	1.851	61
TRAVERSE	18	L1201821	5866	11:51:00	421607	5408394		
			6001	11:52:07	421613	5406522	1.872	158
TRAVERSE	19	L1201921	6001	11:53:14	421808	5406586		
			6101	11:54:04	421811	5408459	1.873	85
TRAVERSE	20	L1202021	6101	11:55:12	422014	5408366		
			6206	11:56:05	422012	5406542	1.824	44
TRAVERSE	21	L1202121	6206	11:56:57	422211	5406597		
			6291	11:57:39	422213	5408428	1.831	52
TRAVERSE	22	L1202221	6291	11:58:31	422413	5408363		
			6396	11:59:23	422411	5406519	1.844	7
TRAVERSE	23	L1202321	6396	12:00:19	422612	5406590		
			6501	12:01:11	422613	5408473	1.883	117
TRAVERSE	24	L1202421	6501	12:02:19	422814	5408376		
			6611	12:03:14	422818	5406539	1.837	85
TRAVERSE	25	L1202521	6611	12:04:20	423012	5406600		
			6716	12:05:12	423012	5408445	1.845	73
PER.ALTB	3	C1200325	6716	12:05:49	423463	5408965		
			6831	12:06:46	424267	5409836	1.185	230

FLIGHT LOG FOR FLIGHT 13 DOY 323 LocalTime 14:22:52 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1300321	0 14:51:11	431640	5414671		
			126 14:52:14	429537	5412363	3.122	252
TRAVERSE	26	L1302621	126 14:56:31	423215	5408390		
			256 14:57:36	423215	5406515	1.875	60
TRAVERSE	27	L1302721	256 14:58:21	423413	5406596		
			371 14:59:18	423409	5408464	1.868	37
TRAVERSE	28	L1302821	371 15:00:00	423614	5408363		
			476 15:00:52	423613	5406542	1.821	42
TRAVERSE	29	L1302921	476 15:01:26	423814	5406596		
			576 15:02:16	423810	5408410	1.814	4
TRAVERSE	30	L1303021	576 15:02:51	424019	5408393		
			681 15:03:43	424015	5406549	1.844	46
TRAVERSE	31	L1303121	681 15:04:18	424210	5406590		
			776 15:05:05	424210	5408456	1.866	69
TRAVERSE	32	L1303221	776 15:05:55	424394	5408395		
			896 15:06:55	424413	5406552	1.843	78
TRAVERSE	33	L1303321	896 15:09:43	424612	5408388		
			1026 15:10:48	424615	5406546	1.842	121
TRAVERSE	34	L1303421	1026 15:11:27	424807	5406585		
			1136 15:12:22	424811	5408416	1.831	88
TRAVERSE	35	L1303521	1136 15:13:13	425013	5408380		
			1266 15:14:18	425018	5406558	1.822	73
TRAVERSE	36	L1303621	1266 15:14:49	425198	5406570		
			1406 15:15:59	425207	5408456	1.886	68
TRAVERSE	37	L1303721	1406 15:16:56	425416	5408377		
			1601 15:18:33	425423	5406543	1.834	133
PER.ALTB	3	C1300322	1601 15:19:06	425576	5405756		
			1716 15:20:04	426136	5403724	2.108	231
TRAVERSE	38	L1303821	1716 15:22:10	425606	5406572		
			1916 15:23:50	425608	5408445	1.873	127
TRAVERSE	39	L1303921	1916 15:24:36	425814	5408380		
			2106 15:26:11	425816	5406538	1.842	150
TRAVERSE	40	L1304021	2106 15:26:56	426008	5406578		
			2331 15:28:48	426010	5408434	1.856	174
TRAVERSE	41	L1304121	2331 15:29:31	426210	5408371		
			2551 15:31:21	426214	5406531	1.840	165
TRAVERSE	42	L1304221	2551 15:32:12	426412	5406574		
			2781 15:34:07	426409	5408457	1.883	191
TRAVERSE	43	L1304321	2781 15:34:52	426614	5408387		
			3101 15:37:32	426613	5406541	1.846	314
TRAVERSE	44	L1304421	3101 15:38:24	426814	5406580		
			3456 15:41:22	426813	5408436	1.856	300
TRAVERSE	45	L1304521	3456 15:42:02	427012	5408391		
			3686 15:43:57	427017	5406521	1.870	179
PER.ALTB	3	C1300323	3686 15:46:32	424829	5407629		
			3796 15:47:27	422547	5408298	2.378	221

FLIGHT LOG FOR FLIGHT 14 DOY 323 LocalTime 15:54:43 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1400321	0 15:54:56	410189	5413240		
			116 15:55:54	409571	5415465	2.309	233

FLIGHT LOG FOR FLIGHT 14 DOY 323 LocalTime 15:59:18 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1400331	0 16:02:42	405171	5413580		
			106 16:03:35	406029	5413569	0.858	212
TRAVERSE	1	L1400131	106 16:04:33	404212	5413377		
			471 16:07:35	395977	5413375	8.235	97
TRAVERSE	2	L1400231	471 16:08:26	396020	5413187		
			831 16:11:26	404247	5413183	8.227	99
TRAVERSE	3	L1400331	831 16:12:15	404216	5412992		
			1201 16:15:20	395909	5412979	8.307	178
TRAVERSE	4	L1400431	1201 16:16:19	396027	5412783		
			1561 16:19:19	404244	5412785	8.217	139
TRAVERSE	5	L1400531	1561 16:20:05	404211	5412587		
			1931 16:23:10	395938	5412578	8.273	168
TRAVERSE	6	L1400631	1931 16:24:09	396031	5412389		
			2306 16:27:16	404259	5412389	8.228	120
TRAVERSE	7	L1400731	2306 16:28:06	404206	5412181		
			2696 16:31:21	395901	5412178	8.305	176
PER.ALTB	3	C1400332	2696 16:31:52	394709	5412413		
			2811 16:32:49	393841	5412279	0.878	230
TRAVERSE	8	L1400831	2811 16:33:51	396016	5411991		
			3181 16:36:56	404283	5411989	8.267	152
TRAVERSE	9	L1400931	3181 16:37:50	404197	5411782		
			3581 16:41:10	395969	5411776	8.228	184
TRAVERSE	10	L1401031	3581 16:41:55	396018	5411588		
			3961 16:45:05	404303	5411587	8.285	177
TRAVERSE	11	L1401131	3961 16:45:43	404180	5411382		
			4326 16:48:45	395937	5411376	8.243	169
TRAVERSE	12	L1401231	4326 16:49:31	396033	5411184		
			4676 16:52:26	404314	5411188	8.281	62
TRAVERSE	13	L1401331	4676 16:53:10	404187	5410980		
			5041 16:56:13	395982	5410976	8.205	22
TRAVERSE	14	L1401431	5041 16:56:57	396028	5410791		
			5181 16:58:07	399121	5410775	3.093	5
PER.ALTB	3	C1400333	5181 17:00:10	394743	5410685		
			5296 17:01:07	393138	5411309	1.722	230
TRAVERSE	14	L1401432	5296 17:02:51	396012	5410788		
			5656 17:05:51	404256	5410784	8.244	52
PER.ALTB	3	C1400334	5656 17:06:30	405881	5410856		
			5786 17:07:35	408067	5411719	2.350	260
PSTQ.CAL	5	H1400531	5786 17:34:31	442867	5419064		
			6046 17:36:41	442867	5419064	0.000	260

FLIGHT LOG FOR FLIGHT 15 DOY 324 LocalTime 07:43:46 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1500131	0 08:27:31	442867	5419064		
			201 08:29:12	442867	5419064	0.000	201
PER.ALTB	3	C1500331	0 09:06:42	413631	5414456		
			116 09:07:40	410916	5414791	2.736	232
TRAVERSE	15	L1501531	116 09:11:48	404216	5410572		
			516 09:15:08	395981	5410582	8.235	32
TRAVERSE	16	L1501631	516 09:15:57	396026	5410387		
			896 09:19:07	404319	5410386	8.293	38
TRAVERSE	17	L1501731	896 09:19:58	404201	5410182		
			1286 09:23:13	395934	5410181	8.267	65
TRAVERSE	18	L1501831	1286 09:24:09	396006	5409985		
			1656 09:27:14	404247	5409988	8.241	174
TRAVERSE	19	L1501931	1656 09:28:15	404212	5409778		
			2041 09:31:27	395975	5409781	8.237	156
PER.ALTB	3	C1500332	2041 09:31:58	394903	5409728		

			2151	09:32:53	393067	5409487	1.852	220
TRAVERSE	20	L1502031	2151	09:34:33	396011	5409586		
			2516	09:37:36	404260	5409583	8.249	187
TRAVERSE	21	L1502131	2516	09:38:16	404188	5409384		
			2906	09:41:31	395977	5409378	8.211	124
TRAVERSE	22	L1502231	2906	09:42:18	396013	5409185		
			3261	09:45:16	404136	5409186	8.123	138
TRAVERSE	23	L1502331	3261	09:46:02	403992	5408978		
			3646	09:49:15	395971	5408976	8.021	243
TRAVERSE	24	L1502431	3646	09:50:28	396029	5408795		
			4011	09:53:30	403942	5408783	7.913	300
TRAVERSE	25	L1502531	4011	09:54:20	403792	5408576		
			4391	09:57:30	395978	5408582	7.814	247
TRAVERSE	26	L1502631	4391	09:58:09	396001	5408374		
			4426	09:58:26	396413	5408383	0.412	33
PER.ALTB	3	C1500333	4426	09:59:08	395419	5408395		
			4541	10:00:06	393508	5408360	1.911	231
TRAVERSE	26	L1502632	4541	10:01:42	396028	5408385		
			4901	10:04:42	403766	5408389	7.738	207
TRAVERSE	27	L1502731	4901	10:05:23	403553	5408181		
			5271	10:08:28	395937	5408178	7.616	191
TRAVERSE	28	L1502831	5271	10:09:30	396430	5408001		
			5296	10:09:42	396807	5408000	0.377	19
TRAVERSE	28	L1502832	5296	10:11:11	396026	5407986		
			5641	10:14:03	403528	5407986	7.502	172
TRAVERSE	29	L1502931	5641	10:14:46	403356	5407783		
			6011	10:17:51	395967	5407781	7.389	175
TRAVERSE	30	L1503031	6011	10:18:41	396023	5407586		
			6351	10:21:31	403289	5407588	7.266	177
TRAVERSE	31	L1503131	6351	10:22:20	403162	5407377		
			6706	10:25:17	395947	5407379	7.215	174
TRAVERSE	32	L1503231	6706	10:26:08	396017	5407186		
			7036	10:28:53	403116	5407191	7.099	237
PER.ALTB	3	C1500334	7036	10:29:27	404491	5407168		
			7146	10:30:22	404814	5408237	1.117	220
TRAVERSE	33	L1503331	7146	10:31:57	402945	5406982		
			7491	10:34:49	395970	5406977	6.975	218
TRAVERSE	34	L1503431	7491	10:35:38	396033	5406788		
			7791	10:38:08	402875	5406782	6.842	200
TRAVERSE	35	L1503531	7791	10:38:59	402714	5406576		
			8146	10:41:56	395920	5406581	6.794	178
TRAVERSE	36	L1503631	8146	10:42:42	396016	5406386		
			8441	10:45:10	402661	5406385	6.645	232
TRAVERSE	37	L1503731	8441	10:45:54	402517	5406182		
			8781	10:48:44	395915	5406180	6.602	169
TRAVERSE	38	L1503831	8781	10:49:33	396015	5405985		
			9071	10:51:58	402523	5405981	6.508	163
TRAVERSE	39	L1503931	9071	10:52:54	402288	5405776		
			9171	10:53:44	400367	5405779	1.921	59
PER.ALTB	3	C1500335	9171	10:55:38	404055	5406998		
			9286	10:56:35	404850	5406947	0.797	230
TRAVERSE	39	L1503932	9286	10:57:58	402325	5405781		
			9606	11:00:38	395906	5405777	6.419	114
TRAVERSE	40	L1504031	9606	11:01:23	396046	5405584		
			9901	11:03:50	402515	5405585	6.469	132
TRAVERSE	41	L1504131	9901	11:04:28	402532	5405377		
			10236	11:07:15	395903	5405378	6.629	141
TRAVERSE	42	L1504231	10236	11:08:12	396006	5405185		
			10541	11:10:45	402709	5405184	6.703	120
TRAVERSE	43	L1504331	10541	11:11:11	402771	5404993		
			10901	11:14:11	395911	5404978	6.860	154
TRAVERSE	44	L1504431	10901	11:14:44	395775	5404783		
			11251	11:17:39	402966	5404779	7.191	157
PER.ALTB	3	C1500336	11251	11:18:13	403931	5404130		
			11416	11:19:36	405772	5400903	3.715	331

FLIGHT LOG FOR FLIGHT 16 DOY 324 LocalTime 12:45:08 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1600331	0 13:08:45	408602	5393065		
			116 13:09:43	407555	5396204	3.309	233
TRAVERSE	45	L1604531	116 13:13:42	402999	5404580		
			511 13:17:00	395443	5404580	7.556	188
TRAVERSE	46	L1604631	511 13:17:45	395301	5404388		
			896 13:20:57	403134	5404387	7.833	214
TRAVERSE	47	L1604731	896 13:21:33	403193	5404181		
			1326 13:25:08	395026	5404176	8.167	187
TRAVERSE	48	L1604831	1326 13:25:50	394841	5403977		
			1756 13:29:25	403398	5403986	8.557	212
TRAVERSE	49	L1604931	1756 13:30:13	403443	5403782		
			2221 13:34:06	394555	5403778	8.888	180
TRAVERSE	50	L1605031	2221 13:34:46	394363	5403587		
			2641 13:38:17	403575	5403584	9.212	296
PER.ALTB	3	C1600332	2641 13:38:45	404458	5403528		
			2756 13:39:42	405707	5403440	1.252	230
TRAVERSE	51	L1605131	2756 13:40:41	403627	5403386		
			3226 13:44:36	394046	5403378	9.581	351
TRAVERSE	52	L1605231	3226 13:45:13	393911	5403181		
			3676 13:48:58	403801	5403178	9.890	328
TRAVERSE	53	L1605331	3676 13:49:34	403865	5402980		
			4171 13:53:42	393628	5402978	10.237	381
TRAVERSE	54	L1605431	4171 13:54:32	393435	5402784		
			4651 13:58:32	404023	5402785	10.588	425
TRAVERSE	55	L1605531	4651 13:59:08	404096	5402587		
			5176 14:03:31	393159	5402579	10.937	426
TRAVERSE	56	L1605631	5176 14:04:21	392952	5402383		
			5701 14:08:43	404322	5402384	11.370	403
PER.ALTB	3	C1600333	5701 14:09:27	405686	5402032		
			5811 14:10:22	405733	5402413	0.384	220
TRAVERSE	57	L1605731	5811 14:11:39	404209	5402178		
			6366 14:16:17	392675	5402181	11.534	243
TRAVERSE	58	L1605831	6366 14:17:17	392477	5401991		
			6906 14:21:47	404273	5401982	11.796	338
TRAVERSE	59	L1605931	6906 14:22:32	404213	5401780		
			7491 14:27:24	392153	5401783	12.060	231
TRAVERSE	60	L1606031	7491 14:28:12	391999	5401587		
			8051 14:32:52	404283	5401587	12.284	256
TRAVERSE	61	L1606131	8051 14:33:39	404215	5401381		
			8646 14:38:37	391741	5401372	12.474	381
PER.ALTB	3	C1600334	8646 14:39:00	390846	5401364		
			8766 14:40:00	390324	5400815	0.758	240
TRAVERSE	62	L1606231	8766 14:40:33	391551	5401216		
			8771 14:40:36	391614	5401192	0.067	10
TRAVERSE	62	L1606232	8771 14:41:51	391543	5401182		
			9356 14:46:43	404296	5401187	12.753	392
TRAVERSE	63	L1606331	9356 14:47:43	404209	5400985		
			9986 14:52:58	391228	5400978	12.981	356
TRAVERSE	64	L1606431	9986 14:53:45	391064	5400782		
			10616 14:59:00	404265	5400779	13.201	500
TRAVERSE	65	L1606531	10616 14:59:48	404207	5400585		
			11281 15:05:21	390744	5400583	13.463	311
TRAVERSE	66	L1606631	11281 15:06:15	390621	5400383		
			11916 15:11:33	404261	5400384	13.640	496
PER.ALTB	3	C1600335	11916 15:12:10	405305	5400591		
			12046 15:13:15	406181	5401316	1.137	260
PSTQ.CAL	5	H1600531	12046 15:53:50	442866	5419064		
			12336 15:56:15	442866	5419064	0.000	290

FLIGHT LOG FOR FLIGHT 17 DOY 325 LocalTime 07:37:01 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1700130	0 07:52:13	442865	5419064		
			261 07:54:24	442865	5419064	0.000	261
PER.ALTB	3	C1700331	261 08:26:34	405089	5409622		
			386 08:27:36	404256	5407166	2.593	250
TRAVERSE	67	L1706731	386 08:32:33	404235	5400192		
			1081 08:38:21	390330	5400175	13.905	686
TRAVERSE	68	L1706831	1081 08:39:05	390139	5399996		
			1791 08:45:00	404265	5399985	14.126	672
TRAVERSE	69	L1706931	1791 08:45:54	404219	5399784		
			2491 08:51:44	389807	5399777	14.412	663
PER.ALTB	3	C1700332	2491 08:52:14	388689	5399748		
			2601 08:53:09	386959	5399580	1.738	220
TRAVERSE	70	L1707031	2601 08:54:54	389656	5399581		
			3341 09:01:04	404284	5399588	14.628	561
TRAVERSE	71	L1707131	3341 09:01:48	404223	5399379		
			4116 09:08:16	389362	5399376	14.861	675
TRAVERSE	72	L1707231	4116 09:09:17	389200	5399180		
			4951 09:16:15	404273	5399182	15.073	605
TRAVERSE	73	L1707331	4951 09:17:05	404214	5398981		
			5916 09:25:08	388919	5398981	15.295	683
PER.ALTB	3	C1700333	5916 09:25:29	388147	5398917		
			6026 09:26:25	386863	5398709	1.301	221
TRAVERSE	74	L1707431	6026 09:27:46	388718	5398783		
			6941 09:35:24	404238	5398788	15.520	602
TRAVERSE	75	L1707531	6941 09:36:05	404211	5398583		
			7936 09:44:23	388383	5398578	15.828	763
TRAVERSE	76	L1707631	7936 09:45:06	388250	5398379		
			8921 09:53:19	404245	5398320	15.995	808
PER.ALTB	3	C1700334	8921 09:53:46	405019	5398297		
			9036 09:54:43	405844	5397749	0.990	230
TRAVERSE	77	L1707731	9036 09:56:08	404215	5398180		
			9976 10:03:58	387967	5398183	16.248	724
TRAVERSE	78	L1707831	9976 10:04:30	387787	5397957		
			10911 10:12:18	404244	5397984	16.457	739
TRAVERSE	79	L1707931	10911 10:13:10	403950	5397781		
			11901 10:21:25	387471	5397781	16.479	759
PER.ALTB	3	C1700335	11901 10:22:01	386314	5397743		
			12016 10:22:58	384330	5397713	1.984	230
TRAVERSE	80	L1708031	12016 10:24:46	387336	5397585		
			12961 10:32:39	403753	5397585	16.417	605
TRAVERSE	81	L1708131	12961 10:33:34	403470	5397373		
			13911 10:41:29	387034	5397379	16.436	679
TRAVERSE	82	L1708231	13911 10:41:58	386831	5397161		
			15006 10:51:06	403255	5397186	16.424	744
PER.ALTB	3	C1700336	15006 10:51:47	404634	5396866		
			15146 10:52:57	407777	5396232	3.206	280

FLIGHT LOG FOR FLIGHT 18 DOY 325 LocalTime 12:23:17 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1800331	0 12:33:03	408761	5396661		
			111 12:33:58	406388	5396821	2.378	222
TRAVERSE	83	L1808331	111 12:39:38	402977	5396980		
			1366 12:50:05	386544	5396978	16.433	745
TRAVERSE	84	L1808431	1366 12:50:50	386357	5396780		
			2791 13:02:43	402735	5396786	16.378	854
PER.ALTB	3	C1800332	2791 13:03:26	403240	5396569		
			2931 13:04:36	403670	5396279	0.519	280

TRAVERSE	85	L1808531	2931	13:06:35	402465	5396586		
			3146	13:08:23	401037	5396578	1.428	95
PER.ALTB	3	C1800333	3146	13:10:52	403564	5397200		
			3256	13:11:47	404716	5396313	1.454	220
TRAVERSE	85	L1808532	3256	13:13:54	402472	5396583		
			4536	13:24:34	386080	5396581	16.392	885
TRAVERSE	86	L1808631	4536	13:25:12	385907	5396385		
			5896	13:36:32	402282	5396386	16.375	924
PER.ALTB	3	C1800334	5896	13:37:10	403380	5396436		
			6016	13:38:10	405140	5396198	1.776	241
TRAVERSE	87	L1808731	6016	13:39:55	401959	5396183		
			7181	13:49:37	385621	5396181	16.338	872
TRAVERSE	88	L1808831	7181	13:50:25	385417	5395994		
			8506	14:01:28	401759	5395983	16.342	934
PER.ALTB	3	C1800335	8506	14:01:59	402691	5395794		
			8641	14:03:06	404461	5395527	1.790	270
TRAVERSE	89	L1808931	8641	14:04:38	401463	5395781		
			9911	14:15:13	385095	5395777	16.368	919
TRAVERSE	90	L1809031	9911	14:15:56	384955	5395585		
			11126	14:26:04	401249	5395586	16.294	880
PER.ALTB	3	C1800336	11126	14:26:36	402174	5395348		
			11241	14:27:33	403575	5395229	1.406	230
TRAVERSE	91	L1809131	11241	14:29:16	400950	5395380		
			12306	14:38:09	384680	5395375	16.270	820
TRAVERSE	92	L1809231	12306	14:38:50	384483	5395183		
			13331	14:47:23	400768	5395181	16.285	853
PER.ALTB	3	C1800337	13331	14:48:15	402181	5395334		
			13461	14:49:20	403856	5395757	1.728	260
PSTQ.CAL	5	H1800531	0	15:19:42	442867	5419064		
			266	15:21:56	442867	5419064	0.000	266

FLIGHT LOG FOR FLIGHT 19 DOY 327 LocalTime 07:19:14 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1900130	0 07:22:49	442869	5419064		
			236 07:24:47	442869	5419064	0.000	236
PER.ALTB	3	C1900312	0 07:46:14	436767	5420323		
			131 07:47:19	434360	5418835	2.830	260
TRAVERSE	82	L1908212	131 07:53:36	426317	5410294		
			421 07:56:01	426279	5407545	2.749	265
TRAVERSE	82	L1908213	421 07:56:18	426279	5407595		
			756 07:59:06	426315	5410312	2.717	261
PER.ALTB	3	C1900331	0 08:04:59	412609	5414650		
			146 08:06:12	408931	5415125	3.709	292
TIE.LINE	46	T1904631	146 08:08:40	404109	5413567		
			961 08:15:28	404081	5400290	13.277	805
PER.ALTB	3	C1900332	961 08:22:49	400219	5407318		
			1106 08:24:01	400485	5409541	2.239	290
TIE.LINE	45	T1904531	1106 08:28:08	402297	5413577		
			2041 08:35:56	402259	5397829	15.748	956
TIE.LINE	44	T1904431	2041 08:39:21	400302	5394615		
			3261 08:49:31	400303	5413643	19.028	1056
PER.ALTB	3	C1900333	3261 08:50:19	400787	5413192		
			3381 08:51:19	401243	5411781	1.483	240
TIE.LINE	43	T1904331	3381 08:54:06	398289	5413573		
			4526 09:03:39	398295	5393367	20.206	988
PER.ALTB	3	C1900334	4526 09:05:19	395343	5391506		
			4646 09:06:19	395752	5390419	1.161	241
TIE.LINE	42	T1904231	4646 09:08:05	396303	5393385		
			5881 09:18:23	396302	5413662	20.277	1191
TIE.LINE	41	T1904131	5881 09:23:27	395128	5404341		
			6496 09:28:34	395126	5393341	11.000	622
PER.ALTB	3	C1900335	6496 09:29:17	394612	5391954		
			6621 09:30:19	393205	5389907	2.484	250
TIE.LINE	40	T1904031	6621 09:31:37	393122	5391687		

			6806	09:33:09	393119	5393863	2.176	156
PER.ALTB	3	C1900336	6806	09:35:01	393763	5390359		
			6931	09:36:03	393291	5390212	0.494	250
TIE.LINE	40	T1904032	6931	09:37:25	393123	5391682		
			7696	09:43:47	393122	5402689	11.007	712
TIE.LINE	39	T1903931	7696	09:45:53	391125	5400924		
			8511	09:52:41	391134	5388141	12.783	808
PER.ALTB	3	C1900337	8511	09:53:28	390821	5386351		
			8641	09:54:33	389463	5385518	1.593	260
TIE.LINE	38	T1903831	8641	09:56:29	389108	5384769		
			9681	10:05:09	389121	5399302	14.533	844
PER.ALTB	3	C1900338	9681	10:06:26	390905	5400133		
			9811	10:07:31	392744	5400312	1.848	260
PSTQ.CAL	5	H1900514	0	10:44:51	442867	5419065		
			181	10:46:22	442867	5419064	0.001	181

FLIGHT LOG FOR FLIGHT 20 DOY 328 LocalTime 10:53:44 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2000110	0 10:54:41	442869	5419064		
			211 10:56:26	442867	5419064	0.002	211
PER.ALTB	3	C2000314	211 11:14:48	434567	5418904		
			331 11:15:48	433086	5416363	2.941	240
TRAVERSE	82	L2008214	331 11:20:12	426319	5410263		
			561 11:22:07	426309	5407570	2.693	143
PER.ALTB	3	C2000315	561 11:24:48	422914	5406246		
			676 11:25:46	420692	5406051	2.231	230

FLIGHT LOG FOR FLIGHT 20 DOY 328 LocalTime 11:26:40 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2000331	0 11:30:55	409247	5400983		
			111 11:31:51	407012	5400934	2.236	222
TRAVERSE	72	L2007231	111 11:36:40	401640	5399191		
			451 11:39:30	395307	5399181	6.333	250
PER.ALTB	3	C2000332	451 11:41:07	398182	5397427		
			556 11:41:59	400779	5396682	2.702	210
TRAVERSE	93	L2009331	556 11:44:22	400452	5394990		
			1576 11:52:52	384165	5394984	16.287	804
TRAVERSE	94	L2009431	1576 11:53:43	384005	5394777		
			2556 12:01:53	400553	5394793	16.548	952
PER.ALTB	3	C2000333	2556 12:02:35	401700	5394745		
			2671 12:03:33	403029	5395342	1.457	231
TRAVERSE	95	L2009531	2671 12:07:43	399916	5394588		
			3646 12:15:51	383740	5394585	16.176	729
TRAVERSE	96	L2009631	3646 12:16:34	383558	5394389		
			4551 12:24:07	399738	5394381	16.180	686
PER.ALTB	3	C2000334	4551 12:24:48	400632	5394382		
			4661 12:25:43	401858	5394379	1.226	220
TRAVERSE	97	L2009731	4661 12:27:19	399436	5394182		
			5646 12:35:32	383265	5394186	16.171	771
TRAVERSE	98	L2009831	5646 12:36:22	383066	5393991		
			6651 12:44:45	399263	5393993	16.197	728
PER.ALTB	3	C2000335	6651 12:45:18	400250	5393977		
			6761 12:46:13	401518	5394091	1.273	221
TRAVERSE	99	L2009931	6761 12:47:53	398936	5393793		
			7891 12:57:18	382795	5393788	16.141	1105
scrub HUMM fall over							
PER.ALTB	3	C2000336	7891 12:58:05	381793	5393959		
			7931 12:58:24	381427	5394089	0.388	80
PER.ALTB	3	C2000337	7931 13:02:08	380873	5391670		
			8041 13:03:03	381470	5390332	1.465	220

TRAVERSE	138	L2013831	8041	13:06:54	376018	5385987		
			8881	13:13:54	389876	5385986	13.858	602
TRAVERSE	137	L2013731	8881	13:14:58	389925	5386192		
			9761	13:22:18	375948	5386189	13.977	489
TRAVERSE	136	L2013631	9761	13:23:27	376016	5386394		
			10606	13:30:30	390085	5386392	14.069	502
PER.ALTB	3	C2000338	10606	13:31:15	391444	5387120		
			10751	13:32:27	393525	5388573	2.538	290
TRAVERSE	99	L2009932	10751	13:37:32	398955	5393790		
			11736	13:45:45	382788	5393781	16.167	681
TRAVERSE	100	L2010031	11736	13:46:41	382583	5393589		
			12361	13:51:53	394297	5393589	11.714	344
PER.ALTB	3	C2000339	12361	13:52:26	395463	5393586		
			12481	13:53:26	397345	5393524	1.883	240

FLIGHT LOG FOR FLIGHT 21 DOY 328 LocalTime 14:37:54 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2100332	0 14:44:50	408906	5398524		
			126 14:45:53	406792	5399415	2.294	252
TRAVERSE	72	L2107232	126 14:49:22	401308	5399184		
			391 14:51:34	396392	5399189	4.916	267
TESTLINE							
TRAVERSE	135	L2113531	391 14:59:59	390149	5386587		
			621 15:01:54	388102	5386615	2.047	169
SCRUB							
TRAVERSE	135	L2113532	621 15:02:57	387904	5386591		
			1416 15:09:35	375962	5386577	11.942	758
PER.ALTB	3	C2100331	1416 15:10:05	375003	5386560		
			1541 15:11:07	374608	5386548	0.395	250
TRAVERSE	134	L2113431	1541 15:11:56	376014	5386793		
			2646 15:21:09	390315	5386793	14.301	801
TRAVERSE	133	L2113331	2646 15:22:01	390399	5386990		
			3681 15:30:39	375901	5386979	14.498	797
PER.ALTB	3	C2100333	3681 15:31:49	377565	5386930		
			3796 15:32:47	379910	5386196	2.457	230
PER.ALTB	3	C2100334	3796 15:35:51	385366	5387848		
			4001 15:37:33	383942	5387521	1.461	410
TRAVERSE	132	L2113231	4001 16:01:13	383407	5387907		
			4006 16:01:15	383369	5387851	0.068	13
SCRUB							
PER.ALTB	3	C2100335	4006 16:01:22	383191	5387729		
			4151 16:02:34	380625	5387012	2.664	290
TRAVERSE	132	L2113232	4151 16:05:14	376016	5387197		
			5176 16:13:47	390546	5387192	14.530	658
TRAVERSE	135	L2113533	5176 16:15:03	390157	5386590		
			5641 16:18:56	384672	5386584	5.485	304
TRAVERSE	139	L2113931	5641 16:20:15	385780	5385726		
			5646 16:20:17	385867	5385708	0.089	12
SCRUB							
PER.ALTB	3	C2100336	5646 16:20:27	386329	5385596		
			5806 16:21:47	389946	5385404	3.622	320

FLIGHT LOG FOR FLIGHT 22 Y 331 LocalTime 07:31:49 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2200130	0 07:34:55	411400	5396019		
			196 07:36:33	411400	5396019	0.000	392
PER.ALTB	3	C2200333	0 08:03:19	412478	5411335		
			111 08:04:14	409816	5411982	2.739	222
PER.ALTB	3	C2200331	111 08:23:05	388043	5398125		
			226 08:24:02	386565	5395804	2.752	230

PER.ALTB	3	C2200334	0	15:19:54	407797	5398088		
			131	15:20:59	405831	5399127	2.224	262
TRAVERSE	72	L2207233	131	15:23:41	401154	5399189		
			476	15:26:33	394915	5399187	6.239	201
Testline								
TRAVERSE	101	L2210131	476	15:30:58	394093	5393380		
			1131	15:36:25	382296	5393386	11.797	515
TRAVERSE	102	L2210231	1131	15:36:57	382104	5393179		
			1791	15:42:27	394001	5393187	11.897	602
PER.ALTB	3	C2200332	1791	15:43:17	395738	5393755		
			1921	15:44:22	397250	5392771	1.804	260
TRAVERSE	103	L2210331	1921	15:46:33	393837	5392985		
			2626	15:52:26	381833	5392981	12.004	462
TRAVERSE	104	L2210431	2626	15:53:04	381642	5392780		
			3346	15:59:05	393806	5392793	12.164	533
TRAVERSE	105	L2210531	3346	16:00:12	393630	5392586		
			4101	16:06:29	381358	5392585	12.272	499
PER.ALTB	3	C2200335	4101	16:07:06	380262	5392715		
			4221	16:08:06	378478	5392862	1.790	240
TRAVERSE	106	L2210631	4221	16:09:30	381208	5392384		
			4996	16:15:58	393536	5392389	12.328	477
TRAVERSE	107	L2210731	4996	16:16:54	393407	5392187		
			5816	16:23:44	380888	5392188	12.519	381
TRAVERSE	108	L2210831	5816	16:24:07	380695	5392007		
			5851	16:24:24	380927	5391985	0.233	36
SCRUB								
TRAVERSE	108	L2210832	5851	16:25:55	380701	5391990		
			6626	16:32:23	393348	5391990	12.647	364
PER.ALTB	3	C2200336	6626	16:32:44	394123	5392018		
			6756	16:33:49	395873	5392133	1.754	260
TRAVERSE	109	L2210931	6756	16:35:36	393150	5391785		
			7551	16:42:14	380427	5391783	12.723	506
TRAVERSE	110	L2211031	7551	16:43:17	380241	5391593		
			8346	16:49:55	393087	5391593	12.846	415
TRAVERSE	111	L2211131	8346	16:50:50	392912	5391383		
			9366	16:59:20	375940	5391391	16.972	582
PER.ALTB	3	C2200337	9366	16:59:42	375270	5391424		
			9501	17:00:49	373289	5391441	1.981	270
TRAVERSE	112	L2211231	9501	17:02:52	376008	5391190		
			10516	17:11:20	392847	5391196	16.839	569
TRAVERSE	113	L2211331	10516	17:12:18	392693	5390987		
			11521	17:20:41	375944	5390990	16.749	666
TRAVERSE	114	L2211431	11521	17:21:51	375997	5390793		
			12481	17:29:51	392652	5390790	16.655	493
PER.ALTB	3	C2200338	12481	17:30:15	393510	5390933		
			12641	17:31:35	395736	5392727	2.859	320
TIE.LINE	46	T2204632	12641	17:36:04	404094	5401660		
			12901	17:38:13	404107	5398454	3.206	128
SCRUB								
PER.ALTB	3	C2200339	12901	17:40:11	403679	5402784		
			13056	17:41:28	403732	5405457	2.674	310
TIE.LINE	46	T2204633	13056	17:42:21	404108	5404525		
			13571	17:46:38	404104	5396950	7.575	240
TIE.LINE	45	T2204532	13571	17:50:27	402301	5399573		
			13861	17:52:52	402303	5396473	3.100	112
PER.ALTB	3	C2200330	13861	17:54:15	399961	5394789		
			14021	17:55:35	396672	5392904	3.791	320
TRAVERSE	115	L2211531	14021	17:57:40	392478	5390581		
			14971	18:05:35	375928	5390587	16.550	437
TRAVERSE	116	L2211631	14971	18:06:55	376014	5390393		
			15881	18:14:30	392706	5390395	16.692	359
PRE.TEST	2	E2200231	15881	18:20:53	394432	5399179		
			16116	18:22:50	399835	5399149	5.403	444
Testline								
PER.ALTB	3	Q2200331	16116	18:24:37	404599	5398399		
			16241	18:25:39	407622	5397408	3.181	252
PSTQ.CAL	5	H2200531	16241	18:44:53	411400	5396019		
			16456	18:46:41	411400	5396020	0.001	431

FLIGHT LOG FOR FLIGHT 23 DOY 332 LocalTime 06:56:25 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2300131	0 07:04:14	411400	5396019		
			206 07:05:58	411400	5396019	0.000	415
PER.ALTB	3	F2300331	0 08:46:22	406766	5401241		
			126 08:47:25	404184	5400989	2.594	253
PER.ALTB	3	F2300332	126 08:54:46	401411	5401151		
			261 08:55:53	404446	5398905	3.776	270
PER.ALTB	3	C2300331	0 12:39:20	404170	5399133		
			111 12:40:15	401974	5399143	2.196	112
PRE.TEST	2	E2300231	111 12:40:37	401576	5399677		
			121 12:40:42	401721	5399810	0.197	22
PRE.TEST	2	E2300232	121 12:42:15	399835	5399143		
			436 12:44:52	394339	5399181	5.496	315
PER.ALTB	3	C2300332	436 12:46:09	392414	5397039		
			551 12:47:06	389720	5396708	2.714	232
TRAVERSE	117	L2311731	551 12:53:20	376019	5390198		
			1631 13:02:21	392275	5390174	16.256	1007
TRAVERSE	118	L2311831	1631 13:03:16	392140	5389978		
			2706 13:12:14	375978	5389987	16.162	1004
PER.ALTB	3	C2300333	2706 13:12:28	375492	5389998		
			2821 13:13:25	374616	5389657	0.940	231
TRAVERSE	119	L2311931	2821 13:14:08	376001	5389799		
			3956 13:23:36	392078	5389791	16.077	1021
TRAVERSE	120	L2312031	3956 13:24:25	391897	5389578		
			5096 13:33:55	375952	5389587	15.945	953
TRAVERSE	121	L2312131	5096 13:34:29	376026	5389380		
			6266 13:44:14	391837	5389393	15.811	941
PER.ALTB	3	C2300334	6266 13:44:24	392178	5389384		
			6376 13:45:19	392506	5389421	0.330	222
TRAVERSE	122	L2312231	6376 13:45:54	391674	5389190		
			7506 13:55:19	375958	5389181	15.716	989
TRAVERSE	123	L2312331	7506 13:56:05	375995	5388996		
			8286 14:02:35	387749	5388993	11.754	726
SCRUB Hum dropout							
PER.ALTB	3	C2300335	8286 14:04:29	392079	5388972		
			8396 14:05:23	391663	5388018	1.041	221
TRAVERSE	123	L2312332	8396 14:06:11	391545	5389015		
			9441 14:14:54	375939	5388987	15.606	922
TRAVERSE	124	L2312431	9441 14:15:23	375994	5388800		
			10486 14:24:06	391501	5388797	15.507	868
TRAVERSE	125	L2312531	10486 14:24:47	391303	5388585		
			11551 14:33:40	375933	5388584	15.370	710
PER.ALTB	3	C2300336	11551 14:33:57	375360	5388603		
			11666 14:34:54	374798	5388422	0.590	231
TRAVERSE	126	L2312631	11666 14:35:35	376028	5388388		
			12731 14:44:28	391238	5388382	15.210	692
TRAVERSE	127	L2312731	12731 14:45:03	391081	5388186		
			13741 14:53:28	375938	5388187	15.143	677
TRAVERSE	128	L2312831	13741 14:54:02	376015	5387982		
			14776 15:02:40	391028	5387997	15.013	723
PER.ALTB	3	C2300337	14776 15:03:07	391863	5387822		
			14891 15:04:04	391397	5388511	0.832	231
TRAVERSE	129	L2312931	14891 15:05:16	390864	5387779		
			15861 15:13:22	375975	5387778	14.889	793
TRAVERSE	130	L2313031	15861 15:13:58	376012	5387637		
			15871 15:14:03	376133	5387592	0.129	18
SCRUB							
TRAVERSE	130	L2313032	15871 15:15:11	375996	5387581		
			16861 15:23:26	390813	5387596	14.817	776
PER.ALTB	3	C2300338	16861 15:24:09	391408	5387151		
			16971 15:25:04	392123	5388246	1.308	222
TRAVERSE	131	L2313131	16971 15:26:05	390610	5387392		

			17956	15:34:18	375920	5387391	14.690	809
TRAVERSE	140	L2314031	17956	15:35:47	376020	5385594		
			18986	15:44:22	389681	5385594	13.661	797
PER.ALTB	3	C2300339	18986	15:45:03	391242	5386162		
			19211	15:46:55	396046	5388310	5.262	451

FLIGHT LOG FOR FLIGHT 24 DOY 332 LocalTime 16:21:35 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2400331	0 16:32:48	398995	5390938		
			241 16:34:48	394677	5387129	5.758	482
TRAVERSE	150	L2415031	241 16:37:39	388421	5383580		
			1081 16:44:39	376967	5383578	11.454	619
TRAVERSE	149	L2414931	1081 16:45:59	376011	5383800		
			1916 16:52:57	388651	5383798	12.640	603
TRAVERSE	148	L2414831	1916 16:53:43	388646	5383979		
			2801 17:01:06	375929	5383980	12.717	726
PER.ALTB	3	C2400332	2801 17:01:26	375329	5383935		
			2926 17:02:29	374229	5384377	1.185	251
TRAVERSE	147	L2414731	2926 17:03:21	376016	5384192		
			3796 17:10:36	388824	5384189	12.808	628
TRAVERSE	146	L2414631	3796 17:11:15	388879	5384382		
			4736 17:19:05	375978	5384385	12.901	598
TRAVERSE	145	L2414531	4736 17:19:41	376000	5384590		
			5656 17:27:21	389081	5384591	13.081	671
PER.ALTB	3	C2400333	5656 17:27:46	389888	5384398		
			5776 17:28:46	389328	5383885	0.759	241
TRAVERSE	144	L2414431	5776 17:30:13	389120	5384778		
			6761 17:38:26	375972	5384782	13.148	663
TRAVERSE	143	L2414331	6761 17:39:04	376009	5384991		
			7711 17:46:59	389293	5384981	13.284	737
TRAVERSE	142	L2414231	7711 17:47:45	389359	5385186		
			8826 17:57:03	375967	5385186	13.392	709
PER.ALTB	3	C2400334	8826 17:57:28	375178	5385016		
			8851 17:57:41	374810	5384930	0.378	52
PER.ALTB	3	C2400335	8851 17:59:46	374209	5384047		
			8966 18:00:43	373647	5385558	1.612	231
TRAVERSE	141	L2414131	8966 18:01:43	376010	5385388		
			9931 18:09:46	389516	5385442	13.506	747
TRAVERSE	151	L2415131	9931 18:11:41	388302	5383384		
			10786 18:18:49	376943	5383379	11.359	593
TRAVERSE	152	L2415231	10786 18:20:25	377003	5383190		
			11591 18:27:08	388268	5383194	11.265	508
PER.ALTB	3	C2400336	11591 18:27:49	389549	5383852		
			11706 18:28:46	390499	5384937	1.442	231
TRAVERSE	153	L2415331	11706 18:30:29	387781	5383024		
			12671 18:38:31	376969	5382981	10.812	546
TRAVERSE	154	L2415431	12671 18:39:07	376993	5382801		
			13531 18:46:17	388001	5382783	11.008	528
TRAVERSE	155	L2415531	13531 18:47:27	387859	5382578		
			14491 18:55:27	376937	5382578	10.922	589
PER.ALTB	3	C2400337	14491 18:56:13	375770	5382583		
			14601 18:57:09	375587	5382022	0.590	221
TRAVERSE	156	L2415631	14601 18:58:00	376995	5382406		
			15416 19:04:48	387799	5382400	10.804	639
PER.ALTB	3	C2400338	15416 19:05:27	388456	5383544		
			15526 19:06:22	388700	5385880	2.349	222
PST.TSTL	4	D2400431	15526 19:15:55	396405	5399190		
			15821 19:18:23	401339	5399187	4.934	213
PER.ALTB	3	C2400339	15821 19:20:08	405477	5400072		
			15946 19:21:11	408354	5398612	3.226	249
PSTQ.CAL	5	H2400539	15946 19:31:19	411400	5396021		
			16181 19:33:17	411400	5396022	0.001	493

FLIGHT LOG FOR FLIGHT 25 DOY 333 LocalTime 07:59:22 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2500130	0 08:04:44	411401	5396021		
			201 08:06:25	411401	5396021	0.000	403
PER.ALTB	3	C2500331	201 08:42:13	403623	5399421		
			311 08:43:08	403417	5399964	0.581	221
PRE.TEST	2	E2500231	311 08:44:38	399801	5399139		
			581 08:46:53	394359	5399172	5.442	270
PER.ALTB	3	C2500332	581 08:47:51	392303	5399312		
			721 08:49:01	390943	5401339	2.441	283
TRAVERSE	64	L2506421	0 08:54:04	380129	5404574		
			776 09:00:32	366169	5404583	13.960	766
Part line							
TRAVERSE	65	L2506521	776 09:01:18	366089	5404381		
			1571 09:07:56	380251	5404387	14.162	747
Part line							
PER.ALTB	3	C2500321	1571 09:08:42	382122	5404052		
			1691 09:09:42	381906	5401860	2.203	241
TIE.LINE	24	T2502421	1691 09:12:20	379639	5402350		
			2536 09:19:23	379633	5417302	14.952	723
TIE.LINE	25	T2502521	2536 09:20:55	381634	5417332		
			2821 09:23:17	381636	5411731	5.601	180
PER.ALTB	3	C2500322	2821 09:24:21	381967	5408842		
			2941 09:25:22	382419	5406073	2.806	241

FLIGHT LOG FOR FLIGHT 26 DOY 333 LocalTime 09:33:38 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2600331	0 09:35:35	384953	5398355		
			116 09:36:33	385601	5395802	2.634	233
PreQ.Cal	1	A2600131	0 10:40:45	411400	5396020		
			6 10:40:48	411400	5396020	0.000	13
Scrub							
PER.ALTB	3	C2600332	0 14:29:54	401908	5389275		
			221 14:31:44	397374	5386337	5.403	442
TRAVERSE	157	L2615731	221 14:36:04	387634	5382188		
			956 14:42:12	376958	5382187	10.676	431
TRAVERSE	158	L2615831	956 14:43:29	376998	5381990		
			1701 14:49:41	387548	5381994	10.550	444
PER.ALTB	3	C2600333	1701 14:50:11	387605	5382805		
			1826 14:51:13	388956	5382260	1.457	250
TRAVERSE	159	L2615931	1826 14:52:41	387377	5381787		
			2496 14:58:16	376968	5381781	10.409	494
TRAVERSE	160	L2616031	2496 14:59:10	376994	5381594		
			3171 15:04:47	387306	5381588	10.312	408
TRAVERSE	161	L2616131	3171 15:05:36	387424	5381405		
			3941 15:12:01	376969	5381382	10.455	434
TRAVERSE	162	L2616231	3941 15:12:56	376986	5381192		
			4731 15:19:31	387459	5381194	10.473	445
PER.ALTB	3	C2600334	4731 15:20:03	388707	5381258		
			4856 15:21:05	390509	5381360	1.805	250
TRAVERSE	163	L2616331	4856 15:22:38	387411	5380988		
			5641 15:29:10	376947	5380987	10.464	305
TRAVERSE	164	L2616431	5641 15:30:04	376993	5380789		
			6341 15:35:54	387456	5380796	10.463	424
TRAVERSE	165	L2616531	6341 15:36:55	387407	5380586		
			7021 15:42:35	376958	5380584	10.449	232
TRAVERSE	166	L2616631	7021 15:43:22	376994	5380393		
			7706 15:49:05	387440	5380393	10.446	268
PER.ALTB	3	C2600335	7706 15:49:20	388053	5380420		
			7836 15:50:25	390393	5380193	2.351	260

TRAVERSE	167	L2616731	7836	15:51:44	387404	5380187		
			8536	15:57:34	376972	5380184	10.432	237
TRAVERSE	168	L2616831	8536	15:58:25	376998	5379991		
			9171	16:03:43	387459	5379990	10.461	225
TRAVERSE	169	L2616931	9171	16:04:47	387399	5379783		
			9826	16:10:15	376964	5379785	10.435	191
TRAVERSE	170	L2617031	9826	16:11:03	376999	5379588		
			10461	16:16:21	387439	5379593	10.440	357
PER.ALTB	3	C2600336	10461	16:16:35	388008	5379615		
			10586	16:17:37	390054	5379342	2.064	250
TRAVERSE	171	L2617131	10586	16:19:01	387407	5379383		
			11241	16:24:29	376940	5379385	10.467	212
TRAVERSE	172	L2617231	11241	16:25:19	376995	5379188		
			11911	16:30:54	387439	5379192	10.444	337
TRAVERSE	173	L2617331	11911	16:31:54	387402	5378978		
			12686	16:38:21	376955	5378977	10.447	432
PER.ALTB	3	C2600337	12686	16:41:08	371120	5379259		
			12826	16:42:18	368692	5379229	2.428	280
TRAVERSE	174	L2617431	12826	16:44:13	370838	5378792		
			13761	16:52:00	387500	5378790	16.662	571
TRAVERSE	175	L2617531	13761	16:53:02	387419	5378585		
			15006	17:03:25	370499	5378585	16.920	868
TIE.LINE	23	T2602331	15006	17:08:50	376098	5383589		
			15531	17:13:13	376104	5391659	8.070	460
PER.ALTB	3	C2600338	15531	17:14:30	377530	5393833		
			15721	17:16:05	381909	5395405	4.653	380
PST.TSTL	4	D2600438	15721	17:21:07	396412	5399186		
			15981	17:23:17	401378	5399186	4.966	106
PER.ALTB	3	C2600339	15981	17:24:04	403012	5398943		
			16131	17:25:19	406077	5398192	3.156	300

FLIGHT LOG FOR FLIGHT 27 DOY 333 LocalTime 17:54:40 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2700331	0 17:58:11	408416	5398862		
			126 17:59:14	405547	5398993	2.872	252
PST.TSTL	4	D2700431	126 18:01:33	401317	5399152		
			141 18:01:40	401280	5399033	0.125	31
SCRUB							
PST.TSTL	4	D2700432	141 18:02:49	401325	5399208		
			421 18:05:09	396336	5399181	4.989	218
PST.TSTL	4	D2700421	0 18:15:46	396403	5399190		
			236 18:17:44	401344	5399185	4.941	219
PER.ALTB	3	F2700321	236 18:19:14	404501	5398404		
			386 18:20:29	408286	5398266	3.788	300
PSTQ.CAL	5	H2700521	386 18:28:47	411400	5396020		
			611 18:30:40	411400	5396020	0.000	225

FLIGHT LOG FOR FLIGHT 28 DOY 334 LocalTime 09:41:58 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2800120	0 09:49:42	411400	5396021		
			186 09:51:15	411400	5396021	0.000	186
PER.ALTB	3	C2800320	186 10:05:54	407418	5401156		
			311 10:06:56	409281	5403473	2.973	250
PST.TSTL	4	D2800420	311 10:11:22	401318	5399185		
			631 10:14:02	396367	5399178	4.951	251
TIE.LINE	35	T2803531	0 10:20:27	387122	5397864		
			2131 10:38:13	387126	5370205	27.659	1323
PER.ALTB	3	C2800331	2131 10:39:18	387735	5370858		
			2286 10:40:36	387966	5374088	3.238	310
TIE.LINE	36	T2803631	2286 10:45:23	388708	5375783		

			2641	10:48:21	388701	5370124	5.659	142
PER.ALTB	3	C2800332	2641	10:50:43	387169	5369346		
			2776	10:51:51	385649	5368949	1.571	271
TIE.LINE	33	T2803331	2776	10:53:29	385057	5370272		
			4801	11:10:22	385117	5395936	25.664	1891
PER.ALTB	3	C2800333	4801	11:10:52	384993	5396869		
			4931	11:11:57	382948	5397751	2.227	260
TIE.LINE	31	T2803131	4931	11:15:50	383628	5394490		
			5691	11:22:10	383628	5380675	13.815	684
PER.ALTB	3	C2800334	5691	11:24:21	383060	5379167		
			5816	11:25:23	382310	5381040	2.018	250
TIE.LINE	31	T2803132	5816	11:28:22	383630	5387022		
			7561	11:42:55	383621	5362764	24.258	1228
PER.ALTB	3	C2800335	7561	11:43:36	383268	5362195		
			7701	11:44:46	382355	5361710	1.034	280
TIE.LINE	27	T2802731	7701	11:46:41	381116	5362206		
			9846	12:04:34	381123	5392508	30.302	1028
PER.ALTB	3	C2800336	9846	12:05:14	380770	5393430		
			9976	12:06:19	379562	5393605	1.221	260
TIE.LINE	25	T2802531	9976	12:08:47	379128	5391593		
			12646	12:31:03	379128	5361104	30.489	1687
PER.ALTB	3	C2800337	12646	12:31:42	378957	5360067		
			12876	12:33:37	379053	5359375	0.699	460
TIE.LINE	24	T2802431	12876	12:40:22	377129	5370651		
			14151	12:51:00	377119	5392168	21.517	847
PER.ALTB	3	C2800338	14151	12:51:55	377606	5393634		
			14316	12:53:17	380699	5395550	3.638	330

FLIGHT LOG FOR FLIGHT 29 DOY 334 LocalTime 13:30:22 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2900330	0	13:41:10	407344	5398755	
			116	13:42:08	406100	5400694	2.304
PST.TSTL	4	D2900430	116	13:44:36	401308	5399177	
			431	13:47:13	396356	5399181	4.952
PER.ALTB	3	C2900331	431	13:48:29	393745	5398247	
			546	13:49:26	392005	5396962	2.163
PER.ALTB	3	C2900332	546	13:54:37	382019	5388805	
			661	13:55:35	380659	5387207	2.098
TIE.LINE	22	T2902231	661	13:59:59	375522	5379074	
			1891	14:10:14	375531	5364395	14.679
HUMM DROP OUT AT END, HUMM REBOOT							
PER.ALTB	3	C2900333	1891	14:11:21	374515	5364978	
			1916	14:11:40	374254	5365301	0.415
PER.ALTB	3	C2900334	1916	14:13:18	372929	5365969	
			2026	14:14:14	372353	5364024	2.028
TRAVERSE	336	L2933631	2026	14:18:06	371208	5361587	
			2526	14:22:16	365342	5361579	5.866
SCRUB. REPEATED FROM JAN 2001							
PER.ALTB	3	C2900335	2526	14:27:22	365104	5364133	
			2641	14:28:19	364846	5361834	2.313
TIE.LINE	15	T2901531	2641	14:31:55	363121	5356904	
			3371	14:38:00	363117	5365970	9.066
TIE.LINE	14	T2901431	3371	14:40:18	361133	5366608	
			4246	14:47:36	361127	5355871	10.737
PER.ALTB	3	C2900336	4246	14:47:58	361643	5355124	
			4361	14:48:55	364408	5354973	2.769
TIE.LINE	16	T2901631	4361	14:50:29	365120	5357920	
			5206	14:57:32	365118	5370587	12.667
PER.ALTB	3	C2900337	5206	14:58:15	365866	5371946	
			5321	14:59:12	367039	5373926	2.301
TIE.LINE	17	T2901731	5321	15:01:25	367124	5376530	
			6466	15:10:58	367120	5358834	17.696
PER.ALTB	3	C2900338	6466	15:11:31	368038	5358144	
			6576	15:12:26	369570	5358387	1.551

TIE.LINE	18	T2901831	6576	15:13:28	369119	5359917		
			7971	15:25:06	369119	5377904	17.987	754
PER.ALTB	3	C2900339	7971	15:25:36	368593	5378596		
			8101	15:26:41	366609	5378803	1.995	260
TRAVERSE	176	L2917631	8101	15:29:13	370233	5378389		
			8161	15:29:43	371517	5378385	1.284	61
TRAVERSE	176	L2917632	8161	15:31:20	370235	5378405		
			9431	15:41:55	387485	5378388	17.250	1055
TRAVERSE	177	L2917731	9431	15:42:39	387414	5378178		
			10881	15:54:44	369859	5378166	17.555	1021
PER.ALTB	3	Q2900331	10881	15:55:18	368927	5378157		
			10991	15:56:13	368136	5377739	0.895	220
TRAVERSE	178	L2917831	10991	15:56:57	369596	5378005		
			11926	16:04:45	382641	5377995	13.045	646
PER.ALTB	3	Q2900332	11926	16:06:51	386892	5376258		
			11926	16:07:49	388670	5377734	2.311	117
SCRUB, HUMM DROPOUT MID CAL								
PER.ALTB	3	Q2900333	0	16:10:28	392644	5382114		
			151	16:11:43	395656	5384700	3.970	303

FLIGHT LOG FOR FLIGHT 30 DOY 334 LocalTime 17:16:14 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C3000321	0	17:23:07	407987	5397498		
			116	17:24:05	405360	5398215	2.723	
PST.TSTL	4	D3000421	116	17:25:58	401291	5399182		
			411	17:28:26	396358	5399183	4.933	
PER.ALTB	3	C3000322	411	17:29:34	393917	5398738		
			571	17:30:54	390542	5400239	3.694	
PER.ALTB	3	C3000323	571	17:35:08	384751	5409977		
			681	17:36:04	384169	5412292	2.387	
TRAVERSE	10	L3001021	681	17:37:34	382694	5415376		
			1536	17:44:42	370901	5415373	11.793	
TRAVERSE	9	L3000921	1536	17:45:25	371140	5415600		
			2206	17:51:00	382746	5415582	11.606	
TRAVERSE	8	L3000821	2206	17:51:51	382708	5415781		
			3181	17:59:59	371276	5415775	11.432	
PER.ALTB	3	C3000324	3181	18:00:35	370384	5416104		
			3191	18:00:40	370293	5416155	0.104	
HUMM DROP OUT								
PER.ALTB	3	C3000325	3191	18:02:28	369794	5415977		
			3301	18:03:23	369964	5417295	1.329	
TRAVERSE	7	L3000721	3301	18:04:34	371509	5415985		
			4071	18:10:59	382809	5415982	11.300	
TRAVERSE	6	L3000621	4071	18:11:39	382697	5416183		
			4846	18:18:07	373016	5416178	9.681	
PER.ALTB	3	C3000326	4846	18:18:57	374106	5416593		
			4946	18:19:48	375610	5416608	1.504	
TRAVERSE	5	L3000521	4946	18:20:48	375327	5416460		
			4956	18:20:53	375406	5416379	0.113	
SCRUB								
TRAVERSE	5	L3000522	4956	18:22:05	375320	5416388		
			5461	18:26:18	382776	5416383	7.456	
TRAVERSE	4	L3000421	5461	18:26:59	382700	5416584		
			6061	18:31:59	375340	5416577	7.360	
TRAVERSE	3	L3000321	6061	18:33:53	377370	5416783		
			6356	18:36:20	382746	5416788	5.376	
TRAVERSE	2	L3000221	6356	18:37:09	382693	5416977		
			6581	18:39:01	379297	5416978	3.396	
TRAVERSE	1	L3000121	6581	18:40:05	380922	5417185		
			6671	18:40:50	382755	5417189	1.833	
PER.ALTB	3	C3000327	6671	18:41:21	383591	5417907		
			6781	18:42:16	383080	5418742	0.979	
TIE.LINE	26	T3002621	6781	18:43:23	382615	5417580		
			7096	18:46:00	382615	5412423	5.157	

PER.ALTB	3	C3000328	7096	18:46:35	383634	5411968		
			7201	18:47:27	385863	5412801	2.380	211
TRAVERSE	11	L3001121	7201	18:49:49	382705	5415182		
			8151	18:57:44	370707	5415172	11.998	368
TRAVERSE	12	L3001221	8151	18:58:11	370538	5415008		
			8981	19:05:06	382791	5414992	12.253	459
TRAVERSE	13	L3001321	8981	19:05:51	382701	5414778		
			9921	19:13:41	370288	5414783	12.413	372
PER.ALTB	3	C3000329	9921	19:14:31	370425	5416114		
			10036	19:15:28	371575	5418003	2.212	231
TIE.LINE	21	T3002121	10036	19:17:03	373634	5416445		
			11976	19:33:13	373634	5390340	26.105	795
PER.ALTB	3	C3000320	11976	19:33:52	374243	5389783		
			12086	19:34:47	375210	5388683	1.465	221
TIE.LINE	22	T3002221	12086	19:36:30	375625	5391915		
			13971	19:52:13	375628	5416742	24.827	697
PER.ALTB	3	Q3000321	13971	19:53:08	377304	5416348		
			14096	19:54:10	379462	5414336	2.950	250
PST.TSTL	4	D3000422	14096	20:02:08	396386	5399190		
			14401	20:04:40	401351	5399185	4.965	242
PER.ALTB	3	Q3000322	14401	20:06:17	405184	5398539		
			14521	20:07:18	408180	5397554	3.154	240
PSTQ.CAL	5	H3000522	14521	20:14:18	411400	5396022		
			14856	20:17:06	411400	5396020	0.002	335

FLIGHT LOG FOR FLIGHT 31 DOY 336 LocalTime 10:13:12 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A3100120	0	10:17:35	411401	5396021		
			206	10:19:19	411401	5396021	0.000	206
PER.ALTB	3	C3100320	206	10:37:33	409147	5397126		
			336	10:38:38	407206	5399174	2.822	260
PST.TSTL	4	D3100420	336	10:43:00	401311	5399200		
			651	10:45:38	396310	5399180	5.001	199
PER.ALTB	3	C3100321	651	10:46:24	394562	5399403		
			781	10:47:29	391886	5399918	2.725	260
TRAVERSE	63	L3106321	781	10:52:15	380081	5404782		
			2236	11:04:23	355122	5404781	24.959	770
PER.ALTB	3	C3100322	2236	11:05:03	353837	5404650		
			2371	11:06:10	351847	5404099	2.065	270
TRAVERSE	65	L3106522	2371	11:08:30	354514	5404385		
			3311	11:16:20	368810	5404386	14.296	492
Half line								
TRAVERSE	64	L3106422	3311	11:16:56	368916	5404588		
			4276	11:24:59	354819	5404580	14.097	570
Half line								
PER.ALTB	3	C3100323	4276	11:25:52	353351	5404511		
			4401	11:26:55	351457	5404738	1.908	251
TRAVERSE	62	L3106221	4401	11:29:33	355534	5404985		
			5791	11:41:08	380068	5404986	24.534	575
TRAVERSE	61	L3106121	5791	11:42:05	379973	5405179		
			7096	11:52:58	355788	5405182	24.185	546
PER.ALTB	3	C3100324	7096	11:53:23	354819	5405176		
			7226	11:54:28	352736	5405518	2.111	260
TRAVERSE	60	L3106021	7226	11:56:56	356201	5405384		
			8466	12:07:16	380017	5405386	23.816	524
TRAVERSE	59	L3105921	8466	12:08:07	379838	5405579		
			9716	12:18:32	356472	5405580	23.366	656
PER.ALTB	3	C3100325	9716	12:19:09	355093	5405606		
			9841	12:20:11	353071	5405490	2.025	250
TRAVERSE	58	L3105821	9841	12:22:10	356882	5405786		
			10721	12:29:30	371136	5405783	14.254	478
Hum dropout								
PER.ALTB	3	C3100326	10721	12:31:30	368683	5405702		
			10846	12:32:32	365941	5405655	2.742	250

TRAVERSE	58	L3105822	10846	12:33:52	366400	5405784		
			11451	12:38:54	379867	5405781	13.467	212
TRAVERSE	57	L3105721	11451	12:39:58	379710	5405979		
			12656	12:50:01	357160	5405980	22.550	584
TIE.LINE	3	T3100321	12656	12:51:54	354576	5404884		
			12971	12:54:32	354570	5400353	4.531	238
TIE.LINE	5	T3100521	12971	12:56:28	355629	5400385		
			13311	12:59:18	355628	5405248	4.863	240
PER.ALTB	3	C3100327	13311	13:00:26	354476	5406855		
			13446	13:01:33	353153	5406326	1.425	270
TRAVERSE	56	L3105621	13446	13:03:47	357541	5406187		
			14691	13:14:10	379778	5406184	22.237	712
PER.ALTB	3	C3100328	14691	13:14:48	381274	5406167		
			14831	13:15:58	384312	5405638	3.084	281
PST.TSTL	4	D3100423	14831	13:20:32	396415	5399184		
			15096	13:22:44	401377	5399183	4.962	170
PER.ALTB	3	C3100329	15096	13:24:21	405094	5398322		
			15226	13:25:26	408038	5397752	2.999	260

FLIGHT LOG FOR FLIGHT 32 DOY 336 LocalTime 14:20:33 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3200321	0	14:26:38	408930	5397225	
			116	14:27:36	406422	5398130	2.666
PST.TSTL	4	D3200421	116	14:29:49	401314	5399180	
			141	14:30:06	401125	5399287	0.217
Scrub							
PER.ALTB	3	C3200322	141	14:31:32	403699	5399985	
			251	14:32:28	402293	5399736	1.428
PST.TSTL	4	D3200422	251	14:34:22	401318	5399179	
			536	14:36:44	396365	5399182	4.953
PER.ALTB	3	C3200323	536	14:38:34	391910	5400796	
			691	14:39:51	389166	5402820	3.410
TRAVERSE	55	L3205521	691	14:43:32	379584	5406380	
			1836	14:53:05	357796	5406378	21.788
TRAVERSE	54	L3205421	1836	14:54:12	358227	5406582	
			3026	15:04:07	379764	5406586	21.537
PER.ALTB	3	C3200324	3026	15:04:44	381196	5406445	
			3141	15:05:41	382647	5406807	1.495
TRAVERSE	53	L3205321	3141	15:07:01	379712	5406780	
			4281	15:16:31	358474	5406778	21.238
TRAVERSE	52	L3205221	4281	15:17:24	358916	5406985	
			5466	15:27:17	379764	5406986	20.848
PER.ALTB	3	C3200325	5466	15:27:40	380573	5407028	
			5576	15:28:35	382529	5407276	1.972
TRAVERSE	51	L3205121	5576	15:30:07	379705	5407179	
			6616	15:38:47	359200	5407178	20.505
TRAVERSE	50	L3205021	6616	15:39:42	359577	5407389	
			7636	15:48:12	379757	5407389	20.180
PER.ALTB	3	C3200326	7636	15:48:56	381365	5407443	
			7751	15:49:53	382960	5407644	1.608
TRAVERSE	49	L3204921	7751	15:51:36	379675	5407578	
			8721	15:59:41	359879	5407580	19.796
TRAVERSE	48	L3204821	8721	16:00:35	360245	5407787	
			9741	16:09:05	379830	5407787	19.585
TRAVERSE	47	L3204721	9741	16:09:47	379698	5407975	
			10676	16:17:35	360522	5407982	19.176
PER.ALTB	3	C3200327	10676	16:18:12	359562	5408020	
			10791	16:19:09	357922	5408004	1.640
TRAVERSE	46	L3204621	10791	16:20:55	360921	5408190	
			11006	16:22:46	364635	5408138	3.714
Hum dropout							
PER.ALTB	3	C3200328	11006	16:24:22	360573	5407829	
			11121	16:25:20	358591	5408339	2.047
TRAVERSE	46	L3204622	11121	16:26:34	360941	5408186	

			12096	16:34:42	379757	5408187	18.816	242
TRAVERSE	45	L3204521	12096	16:35:31	379681	5408378		
			13056	16:43:31	361217	5408378	18.464	295
PER.ALTB	3	C3200329	13056	16:44:22	359563	5408356		
			13166	16:45:17	357437	5408394	2.126	220
TIE.LINE	7	T3200721	13166	16:46:54	357622	5406372		
			13621	16:50:41	357634	5398354	8.018	152
TIE.LINE	9	T3200921	13621	16:53:38	359629	5398384		
			14126	16:57:51	359632	5407631	9.247	210
PER.ALTB	3	C3200320	14126	16:58:18	359183	5407908		
			14241	16:59:15	357606	5408158	1.597	230
TRAVERSE	44	L3204421	14241	17:03:38	361597	5408583		
			15256	17:12:05	379814	5408582	18.217	269
PER.ALTB	3	Q3200321	15256	17:12:35	380953	5408475		
			15366	17:13:30	382849	5407361	2.199	221
PST.TSTL	4	D3200423	15366	17:19:22	396392	5399182		
			15621	17:21:29	401350	5399188	4.958	199
PER.ALTB	3	Q3200322	15621	17:23:09	405398	5398748		
			15736	17:24:07	408144	5397973	2.853	230

FLIGHT LOG FOR FLIGHT 33 DOY 336 LocalTime 18:04:35 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3300321	0 18:19:25	386855	5405297		
			111 18:20:20	384442	5406166	2.565	222
TRAVERSE	43	L3304321	111 18:22:33	379717	5408780		
			1221 18:31:48	361859	5408783	17.858	261
TRAVERSE	42	L3304221	1221 18:33:00	362279	5408983		
			2321 18:42:10	379808	5408986	17.529	243
PER.ALTB	3	C3300322	2321 18:42:35	380597	5409049		
			2431 18:43:30	380699	5410778	1.732	220
PER.ALTB	3	C3300323	2431 18:52:34	379470	5409530		
			2541 18:53:30	381428	5409709	1.966	220
TRAVERSE	41	L3304121	2541 18:56:02	379717	5409178		
			3796 19:06:30	362582	5409178	17.135	893
TRAVERSE	40	L3304021	3796 19:07:58	362966	5409380		
			5241 19:20:01	379760	5409387	16.794	1078
PER.ALTB	3	C3300324	5241 19:21:10	381596	5408980		
			5386 19:22:22	383735	5408125	2.304	290
PER.ALTB	3	C3300325	5386 19:24:04	387050	5405605		
			5496 19:25:00	388656	5404358	2.033	220
PST.TSTL	4	D3300425	5496 19:29:08	396394	5399186		
			5886 19:32:23	401370	5399187	4.976	332
PER.ALTB	3	C3300326	5886 19:34:24	404578	5398223		
			5996 19:35:20	406227	5397592	1.766	220
PSTQ.CAL	5	H3300526	5996 19:47:34	411401	5396019		
			6176 19:49:05	411401	5396019	0.000	180

FLIGHT LOG FOR FLIGHT 34 DOY 337 LocalTime 16:19:10 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3400120	0 16:56:39	411400	5396020		
			221 16:58:30	411399	5396019	0.001	221
PER.ALTB	3	C3400320	221 17:11:39	406903	5397879		
			351 17:12:43	405408	5398275	1.547	260
PST.TSTL	4	D3400420	351 17:16:03	401299	5399188		
			686 17:18:50	396349	5399180	4.950	271
PER.ALTB	3	C3400321	686 17:19:28	395251	5399126		
			806 17:20:28	393146	5398922	2.115	241
PER.ALTB	3	C3400322	806 17:23:37	385086	5396176		
			931 17:24:39	382558	5395182	2.716	245
TIE.LINE	23	T3402321	931 17:29:31	377626	5393428		

			3396	17:50:04	377627	5416992	23.564	2377
PER.ALTB	3	C3400323	3396	17:50:55	376842	5417999		
			3561	17:52:17	375488	5420553	2.891	330
TIE.LINE	20	T3402021	3561	17:56:20	371636	5416192		
			5556	18:12:58	371630	5388780	27.412	1736
PER.ALTB	3	C3400324	5556	18:13:43	371366	5387278		
			5681	18:14:45	369489	5386195	2.167	250
TIE.LINE	18	T3401821	5681	18:17:37	369637	5387113		
			6286	18:22:40	369637	5393619	6.506	723
TIE.LINE	19	T3401921	6286	18:26:34	369630	5400370		
			7501	18:36:42	369626	5414175	13.805	630
PER.ALTB	3	C3400325	7501	18:37:45	368700	5415179		
			7656	18:39:02	365994	5415753	2.766	310
TIE.LINE	17	T3401721	7656	18:41:15	367633	5412277		
			8626	18:49:20	367631	5400338	11.939	736
TIE.LINE	15	T3401521	8626	18:51:43	365625	5400397		
			9706	19:00:43	365633	5411149	10.752	711
PER.ALTB	3	C3400326	9706	19:01:07	365400	5411751		
			9871	19:02:29	363321	5410898	2.247	330
TIE.LINE	13	T3401321	9871	19:06:49	363634	5409909		
			10626	19:13:07	363644	5400355	9.554	845
PER.ALTB	3	C3400327	10626	19:13:57	363727	5398979		
			10756	19:15:02	364027	5396415	2.581	260
TIE.LINE	11	T3401121	10756	19:18:12	361104	5398260		
			11751	19:26:30	361113	5408807	10.547	367
TRAVERSE	39	L3403921	0	19:29:35	363274	5409582		
			1361	19:40:56	379754	5409581	16.480	1048
PER.ALTB	3	C3400328	1361	19:42:12	382046	5408533		
			1491	19:43:17	384217	5406853	2.745	260
PST.TSTL	4	D3400428	1491	19:49:08	396392	5399180		
			1866	19:52:16	401366	5399184	4.974	286
PER.ALTB	3	C3400329	1866	19:54:28	404734	5398579		
			2046	19:55:58	407904	5397775	3.270	360
PSTQ.CAL	5	H3400529	2046	20:05:36	411401	5396020		
			2241	20:07:13	411401	5396020	0.000	195

FLIGHT LOG FOR FLIGHT 35 DOY 338 LocalTime 07:27:44 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3500120	0 07:32:51	411401	5396022		
			246 07:34:55	411401	5396022	0.000	246
PER.ALTB	3	C3500322	246 07:59:21	402804	5408316		
			376 08:00:26	400758	5409981	2.638	260
PER.ALTB	3	C3500323	376 08:07:25	384611	5413146		
			501 08:08:27	384217	5410682	2.495	250
TRAVERSE	39	L3503922	501 08:11:32	379708	5409574		
			2081 08:24:43	362798	5409584	16.910	934
TRAVERSE	38	L3503821	2081 08:26:36	363610	5409786		
			3761 08:40:36	379790	5409782	16.180	522
PER.ALTB	3	C3500321	3761 08:41:24	381087	5409793		
			3886 08:42:26	382191	5410350	1.237	250
TRAVERSE	37	L3503721	3886 08:44:23	379691	5409987		
			5396 08:56:58	363904	5409987	15.787	546
TRAVERSE	36	L3503621	5396 08:58:05	364297	5410185		
			6736 09:09:15	379950	5410189	15.653	626
PER.ALTB	3	C3500324	6736 09:10:09	381171	5410145		
			6876 09:11:19	382151	5410508	1.045	280
TRAVERSE	35	L3503521	6876 09:12:21	380108	5410379		
			8156 09:23:01	364600	5410378	15.508	653
Dummy CAL after							
TRAVERSE	34	L3503421	8156 09:24:07	364971	5410586		
			8381 09:25:59	367306	5410583	2.335	61
Scrub Hum dropout							
PER.ALTB	3	C3500325	8381 09:29:14	361730	5409687		

			8511	09:30:19	361276	5412301	2.653	260
System renulled								
TRAVERSE	34	L3503422	8511	09:33:35	364971	5410591		
			9926	09:45:23	380533	5410579	15.562	749
PER.ALTB	3	C3500326	9926	09:46:08	381670	5410359		
			10056	09:47:13	382954	5410988	1.430	260
TRAVERSE	33	L3503321	10056	09:48:54	380513	5410780		
			10136	09:49:34	379423	5410950	1.103	64
TRAVERSE	32	L3503221	10136	09:49:41	379212	5411048		
			10171	09:49:58	378653	5411132	0.565	71
Scrub								
TRAVERSE	31	L3503121	10171	09:50:05	378393	5411169		
			10206	09:50:22	377788	5411185	0.605	2
Scrub								
TRAVERSE	33	L3503322	10206	09:50:32	377475	5411191		
			11311	09:59:45	365244	5410783	12.238	632
TRAVERSE	32	L3503222	11311	10:00:40	365649	5410991		
			12706	10:12:18	380763	5410989	15.114	701
PER.ALTB	3	C3500327	12706	10:13:00	381992	5410901		
			12831	10:14:03	381905	5412558	1.659	250
TRAVERSE	31	L3503122	12831	10:15:13	380918	5411188		
			14131	10:26:03	365933	5411185	14.985	637
TRAVERSE	30	L3503021	14131	10:27:05	366324	5411384		
			15456	10:38:08	381147	5411390	14.823	316
PER.ALTB	3	C3500328	15456	10:39:23	383179	5410251		
			15586	10:40:28	384810	5408803	2.181	260
PST.TSTL	4	D3500421	15586	10:47:01	396396	5399186		
			15976	10:50:16	401334	5399186	4.938	332
PER.ALTB	3	C3500329	15976	10:52:42	405241	5398321		
			16131	10:53:59	408081	5397737	2.899	310

FLIGHT LOG FOR FLIGHT 36 DOY 338 LocalTime 11:11:35 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C3600321	0 11:22:42	391429	5406482			
			121 11:23:43	389091	5407576	2.581	243	
TRAVERSE	29	L3602921	121 11:27:14	381299	5411573			
			1411 11:38:00	366626	5411574	14.673	681	
TRAVERSE	28	L3602821	1411 11:38:59	366999	5411779			
			2736 11:50:02	381595	5411785	14.596	368	
PER.ALTB	3	C3600322	2736 11:50:35	382576	5411810			
			2866 11:51:40	383272	5413308	1.652	260	
TRAVERSE	27	L3602721	2866 11:53:04	381713	5411875			
			2876 11:53:09	381584	5411914	0.135	21	
SCRUB								
TRAVERSE	27	L3602722	2876 11:54:11	381691	5411977			
			4046 12:03:56	367306	5411983	14.385	422	
TRAVERSE	26	L3602621	4046 12:04:55	367663	5412187			
			5451 12:16:38	381986	5412185	14.323	484	
PER.ALTB	3	C3600323	5451 12:17:11	382933	5412063			
			5571 12:18:11	383113	5412945	0.900	241	
TRAVERSE	25	L3602521	5571 12:18:49	382733	5412350			
			5576 12:18:51	382698	5412378	0.045	8	
SCRUB								
TRAVERSE	24	L3602421	5576 12:18:58	382578	5412535			
			5586 12:19:03	382583	5412677	0.142	19	
SCRUB								
TRAVERSE	25	L3602522	5586 12:20:09	382703	5412378			
			6746 12:29:49	367961	5412377	14.742	469	
TRAVERSE	24	L3602422	6746 12:30:47	368191	5412579			
			8021 12:41:25	382774	5412588	14.583	416	
PER.ALTB	3	C3600324	8021 12:41:55	383510	5412853			
			8176 12:43:12	384497	5413656	1.272	310	
TRAVERSE	23	L3602321	8176 12:46:18	382699	5412782			
			9331 12:55:56	368363	5412785	14.336	650	

TRAVERSE	22	L3602221	9331	12:56:48	368604	5412983		
			10331	13:05:08	379259	5412978	10.655	328
Hum Dropout								
PER.ALTB	3	C3600325	10331	13:07:06	376578	5413777		
			10456	13:08:09	374047	5414310	2.587	250
TRAVERSE	22	L3602222	10456	13:10:06	373479	5412983		
			11301	13:17:09	383387	5412986	9.908	346
PER.ALTB	3	C3600326	11301	13:18:11	385291	5412428		
			11426	13:19:13	387208	5411106	2.329	250

FLIGHT LOG FOR FLIGHT 37 DOY 338 LocalTime 13:56:08 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3700321	0	14:13:32	390184	5406616	
			116	14:14:29	387915	5408448	2.916
TRAVERSE	21	L3702121	116	14:16:58	382711	5413171	
			1086	14:25:03	368692	5413182	14.019
TRAVERSE	20	L3702021	1086	14:25:55	368998	5413386	
			2106	14:34:25	382790	5413385	13.792
TRAVERSE	19	L3701921	2106	14:35:11	382717	5413579	
			2966	14:42:21	369118	5413580	13.599
PER.ALTB	3	C3700322	2966	14:42:55	367996	5413378	
			3081	14:43:52	367389	5413696	0.685
TRAVERSE	18	L3701821	3081	14:45:04	369359	5413785	
			3986	14:52:37	382766	5413788	13.407
TRAVERSE	17	L3701721	3986	14:53:22	382684	5413979	
			4771	14:59:55	369536	5413980	13.148
TRAVERSE	16	L3701621	4771	15:00:52	369764	5414185	
			5601	15:07:47	382804	5414186	13.040
PER.ALTB	3	C3700323	5601	15:08:13	383663	5414211	
			5716	15:09:11	384160	5414561	0.608
TRAVERSE	15	L3701521	5716	15:09:58	382688	5414379	
			6481	15:16:21	369925	5414378	12.763
TRAVERSE	14	L3701421	6481	15:17:05	370134	5414582	
			7271	15:23:40	382776	5414585	12.642
PER.ALTB	3	C3700324	7271	15:24:14	383112	5413608	
			7456	15:25:46	382936	5409488	4.124
TRAVERSE	66	L3706621	7456	15:28:42	380175	5404179	
			8906	15:40:47	354464	5404179	25.711
TRAVERSE	67	L3706721	8906	15:41:33	354512	5403986	
			10371	15:53:46	380268	5403986	25.756
PER.ALTB	3	C3700325	10371	15:54:12	381230	5403992	
			10486	15:55:09	381868	5403865	0.651
PER.ALTB	3	C3700326	10486	15:59:28	374010	5403848	
			10621	16:00:36	377429	5403756	3.420
TRAVERSE	68	L3706821	10621	16:02:17	380126	5403779	
			11106	16:06:20	370441	5403772	9.685
PER.ALTB	3	C3700327	0	16:10:45	382722	5404256	
			146	16:11:58	383216	5403607	0.816
TRAVERSE	68	L3706822	146	16:13:17	380132	5403780	
			1566	16:25:07	354450	5403778	25.682
TRAVERSE	69	L3706921	1566	16:26:05	354506	5403583	
			3026	16:38:15	380129	5403585	25.623
PER.ALTB	3	C3700328	3026	16:38:48	381396	5403398	
			3146	16:39:48	384091	5402926	2.736
PER.ALTB	3	C3700329	3146	16:40:11	385298	5402730	
			3266	16:41:11	388429	5401548	3.347
PST.TSTL	4	D3700429	3266	16:44:06	396410	5399185	
			3546	16:46:26	401340	5399182	4.930
PER.ALTB	3	C3700320	3546	16:48:13	405085	5398220	
			3666	16:49:13	407580	5397768	2.536

FLIGHT LOG FOR FLIGHT 38 DOY 338 LocalTime 17:03:16 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3800321	0 17:23:17	387053	5402937		
			116 17:24:15	384485	5403908	2.745	232
TRAVERSE	70	L3807021	116 17:25:49	380006	5403383		
			1506 17:37:24	354426	5403380	25.580	567
TRAVERSE	71	L3807121	1506 17:38:24	354663	5403186		
			2876 17:49:49	379972	5403186	25.309	875
PER.ALTB	3	C3800322	2876 17:50:23	381304	5403293		
			2991 17:51:20	382882	5403701	1.630	230
TRAVERSE	72	L3807221	2991 17:52:55	379856	5402978		
			4411 18:04:45	354416	5402979	25.440	823
TRAVERSE	73	L3807321	4411 18:05:43	354512	5402789		
			5856 18:17:46	379875	5402784	25.363	899
PER.ALTB	3	C3800323	5856 18:18:13	380893	5402777		
			5971 18:19:10	382508	5402826	1.616	230
TRAVERSE	74	L3807421	5971 18:20:57	379707	5402579		
			7586 18:34:25	354447	5402570	25.260	608
TRAVERSE	75	L3807521	7586 18:35:32	354501	5402385		
			9196 18:48:57	379721	5402387	25.220	663
PER.ALTB	3	C3800324	9196 18:49:26	380659	5402467		
			9316 18:50:26	381139	5402439	0.481	240
TRAVERSE	76	L3807621	9316 18:51:09	379615	5402178		
			10886 19:04:14	354477	5402190	25.138	865
PER.ALTB	3	C3800325	10886 19:06:42	353984	5400304		
			11006 19:07:41	353576	5398233	2.111	240
PER.ALTB	3	C3800326	11006 19:09:41	352605	5393005		
			11126 19:10:41	352472	5390110	2.898	240
PER.ALTB	3	C3800327	11126 19:14:32	350362	5388347		
			11231 19:15:24	350742	5388365	0.380	210
TIE.LINE	1	T3800121	11231 19:16:47	351537	5386694		
			11731 19:20:57	353299	5378900	7.991	89
TIE.LINE	2	T3800221	11731 19:22:08	353640	5379128		
			12201 19:26:03	353639	5386646	7.518	122
PER.ALTB	3	C3800328	12201 19:26:25	353633	5387431		
			12326 19:27:28	354487	5388216	1.160	250
TIE.LINE	4	T3800421	12326 19:29:00	355639	5386563		
			12946 19:34:10	355610	5378819	7.744	399
TIE.LINE	4	T3800422	12946 19:35:12	355618	5378890		
			13556 19:40:17	355626	5386628	7.738	284
PER.ALTB	3	C3800329	13556 19:40:39	355532	5387343		
			13671 19:41:36	356984	5388878	2.113	230
TRAVERSE	152	L3815221	13671 19:44:28	359560	5388793		
			14666 19:52:46	371387	5388788	11.827	519
PER.ALTB	3	C3800320	14666 19:53:48	373420	5388947		
			14781 19:54:45	375672	5389159	2.262	230
PSTQ.CAL	5	H3800521	14781 20:20:06	411401	5396020		
			15021 20:22:06	411401	5396020	0.000	240

FLIGHT LOG FOR FLIGHT 39 DOY 339 LocalTime 06:36:21 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3900120	0 06:47:25	411400	5396021		
			261 06:49:36	411400	5396020	0.001	261
PER.ALTB	3	C3900321	261 07:11:34	384723	5393377		
			376 07:12:31	382145	5393642	2.592	230
TRAVERSE	129	L3912921	376 07:14:32	377415	5393380		
			1641 07:25:05	365514	5393378	11.901	889
PER.ALTB	3	C3900322	1641 07:25:32	364856	5393501		
			1756 07:26:29	365204	5395319	1.851	230
TIE.LINE	16	T3901621	1756 07:29:01	367636	5393561		

			2301	07:33:34	367631	5385863	7.698	350
TIE.LINE	14	T3901421	2301	07:35:32	365631	5384488		
			3096	07:42:10	365624	5393632	9.144	546
PER.ALTB	3	C3900323	3096	07:42:45	365020	5394211		
			3251	07:44:03	362939	5392008	3.030	311
TIE.LINE	12	T3901221	3251	07:46:00	363636	5389021		
			3736	07:50:03	363630	5383070	5.951	216
TIE.LINE	10	T3901021	3736	07:52:34	361626	5381702		
			4381	07:57:56	361629	5389046	7.344	366
PER.ALTB	3	C3900324	4381	07:58:27	361429	5389912		
			4496	07:59:25	360524	5390395	1.026	231
TIE.LINE	8	T3900821	4496	08:00:57	359636	5388958		
			5176	08:06:37	359631	5380486	8.472	457
TIE.LINE	6	T3900621	5176	08:09:08	357629	5379117		
			5766	08:14:03	357629	5386620	7.503	372
PER.ALTB	3	C3900325	5766	08:14:45	357762	5387632		
			5881	08:15:42	358106	5388424	0.863	230
TRAVERSE	153	L3915321	5881	08:17:46	359510	5388587		
			7061	08:27:36	371155	5388585	11.645	730
TRAVERSE	154	L3915421	7061	08:29:43	370802	5388380		
			8246	08:39:36	359452	5388377	11.350	757
PER.ALTB	3	C3900326	8246	08:39:58	358870	5388371		
			8361	08:40:56	357391	5388414	1.480	231
TRAVERSE	155	L3915521	8361	08:42:46	359512	5388186		
			8626	08:45:06	362956	5387995	3.449	191
SCRUB HUMM DROP OUT								
PER.ALTB	3	C3900327	8626	08:47:04	358959	5387823		
			8741	08:48:01	356599	5387755	2.361	230
TRAVERSE	155	L3915522	8741	08:50:20	359519	5388186		
			9641	08:57:50	369669	5388104	10.150	705
SCRUB POOR GPS								
TRAVERSE	155	L3915523	9641	08:59:56	370555	5388181		
			10581	09:07:46	359475	5388176	11.080	616
TRAVERSE	156	L3915621	10581	09:08:38	359510	5387983		
			11451	09:15:53	370334	5387988	10.824	444
PER.ALTB	3	C3900328	11451	09:16:09	370613	5388014		
			11571	09:17:09	371584	5387945	0.973	240
TRAVERSE	157	L3915721	11571	09:18:23	370043	5387776		
			12516	09:26:16	359473	5387777	10.570	433
TRAVERSE	158	L3915821	12516	09:27:00	359509	5387587		
			13301	09:33:33	369809	5387586	10.300	445
TRAVERSE	159	L3915921	13301	09:34:35	369500	5387376		
			14146	09:41:38	359473	5387378	10.027	385
PER.ALTB	3	C3900329	14146	09:41:55	359001	5387356		
			14276	09:43:00	357764	5387239	1.243	260
TRAVERSE	160	L3916021	14276	09:44:31	359517	5387186		
			15091	09:51:18	369277	5387191	9.760	382
PER.ALTB	3	C3900320	15091	09:52:09	370792	5387357		
			15276	09:53:41	374481	5388350	3.820	370

FLIGHT LOG FOR FLIGHT 40 DOY 339 LocalTime 10:36:04 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C4000321	0 10:52:53	377186	5386980		
			151 10:54:08	373519	5386888	3.668	302
TRAVERSE	161	L4016121	151 10:56:26	368955	5386979		
			961 11:03:11	359483	5386979	9.472	290
TRAVERSE	162	L4016221	961 11:04:05	359523	5386789		
			1646 11:09:48	368759	5386788	9.236	367
TRAVERSE	163	L4016321	1646 11:10:47	368424	5386579		
			2406 11:17:07	359443	5386578	8.981	345
PER.ALTB	3	C4000322	2406 11:18:31	356741	5386691		
			2526 11:19:31	354242	5386682	2.499	240
TRAVERSE	164	L4016421	2526 11:21:57	351518	5386388		
			3966 11:33:57	368187	5386385	16.669	602

TRAVERSE	165	L4016521	3966	11:34:47	367849	5386178		
			5356	11:46:22	351454	5386180	16.395	583
PER.ALTB	3	C4000323	5356	11:46:45	350736	5386153		
			5481	11:47:47	348829	5385714	1.957	250
TRAVERSE	166	L4016621	5481	11:49:24	351528	5385991		
			6801	12:00:24	367608	5385987	16.080	568
TRAVERSE	167	L4016721	6801	12:01:12	367269	5385780		
			8046	12:11:35	351521	5385777	15.748	515
PER.ALTB	3	C4000324	8046	12:12:03	350790	5385735		
			8161	12:13:00	349471	5385247	1.406	230
TRAVERSE	168	L4016821	8161	12:14:38	351619	5385590		
			9421	12:25:08	367022	5385588	15.403	524
TRAVERSE	169	L4016921	9421	12:26:18	366686	5385377		
			10666	12:36:41	351600	5385372	15.086	591
PER.ALTB	3	C4000325	10666	12:38:42	348372	5385122		
			10791	12:39:45	348156	5385695	0.612	250
TRAVERSE	170	L4017021	10791	12:41:35	351695	5385188		
			11946	12:51:13	366461	5385188	14.766	455
TRAVERSE	171	L4017121	11946	12:52:05	366110	5384980		
			13216	13:02:40	351651	5384976	14.459	538
?HUMM DROP OUT AT END								
PER.ALTB	3	C4000326	13216	13:03:05	350979	5384965		
			13331	13:04:02	349217	5384664	1.788	230
TRAVERSE	172	L4017221	13331	13:05:41	351809	5384785		
			14611	13:16:21	365882	5384789	14.073	613
PER.ALTB	3	C4000327	14611	13:17:05	367518	5385411		
			14721	13:18:00	369432	5387139	2.579	221
PER.ALTB	3	C4000328	14721	13:22:02	380080	5392942		
			14836	13:22:59	382535	5394259	2.786	230
PST.TSTL	4	D4000428	14836	13:27:55	396416	5399185		
			15131	13:30:23	401376	5399181	4.960	198
PER.ALTB	3	C4000329	15131	13:31:45	404213	5398703		
			15271	13:32:55	407666	5397773	3.576	280

FLIGHT LOG FOR FLIGHT 41 DOY 339 LocalTime 14:00:24 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C4100321	0	14:04:45	407042	5401183		
			131	14:05:50	407579	5400501	0.868	262
PST.TSTL	4	D4100421	131	14:09:26	401316	5399179		
			486	14:12:24	396352	5399187	4.964	260
PER.ALTB	3	C4100322	486	14:14:47	391400	5398893		
			616	14:15:53	388975	5397883	2.627	261
PER.ALTB	3	C4100323	616	14:21:49	374886	5395454		
			741	14:22:51	372786	5394560	2.282	250
TRAVERSE	173	L4117321	741	14:30:18	365585	5384566		
			2681	14:46:28	351791	5384570	13.794	756
PER.ALTB	3	C4100324	2681	14:48:20	350646	5384776		
			2811	14:49:25	349505	5383602	1.637	260
TRAVERSE	174	L4117421	2811	14:51:31	351867	5384387		
			4651	15:06:51	365318	5384387	13.451	701
PER.ALTB	3	C4100325	4651	15:07:37	366280	5384738		
			4851	15:09:16	367026	5384888	0.761	400
TRAVERSE	175	L4117521	4851	15:11:21	365008	5384181		
			6681	15:26:36	351874	5384182	13.134	788
TRAVERSE	176	L4117621	6681	15:27:20	351955	5383998		
			8461	15:42:10	364750	5383990	12.795	698
PER.ALTB	3	C4100326	8461	15:43:21	366167	5384486		
			8611	15:44:36	366586	5384601	0.434	300
TRAVERSE	177	L4117721	8611	15:47:36	364428	5383787		
			10246	16:01:14	351962	5383779	12.466	531
TRAVERSE	178	L4117821	10246	16:01:52	352054	5383595		
			11716	16:14:08	364168	5383583	12.114	618
PER.ALTB	3	C4100327	11716	16:15:06	365404	5383392		
			11846	16:16:11	365828	5383630	0.486	260

TRAVERSE	179	L4117921	11846	16:18:28	363859	5383382		
			12276	16:22:03	360934	5383385	2.925	126
SCRUB								
PER.ALTB	3	C4100328	12276	16:23:50	363299	5382119		
			12411	16:24:57	365766	5382530	2.501	270
TRAVERSE	179	L4117922	12411	16:27:12	363861	5383384		
			13751	16:38:22	352072	5383377	11.789	365
PER.ALTB	3	C4100329	13751	16:42:05	358893	5385332		
			14351	16:47:05	371229	5388207	12.667	1185

FLIGHT LOG FOR FLIGHT 42 DOY 339 LocalTime 17:25:45 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C4200321	0	17:46:00	368650	5379158		
			121	17:47:00	366915	5378403	1.892	242
TRAVERSE	196	L4219621	121	17:53:46	358201	5379978		
			551	17:57:21	352813	5379978	5.388	94
TRAVERSE	195	L4219521	551	17:58:01	352826	5380186		
			936	18:01:14	358657	5380192	5.831	69
TRAVERSE	194	L4219421	936	18:01:39	359053	5380380		
			1171	18:03:36	355979	5380374	3.074	59
SCRUB HUMM DROP OUT								
PER.ALTB	3	C4200322	0	18:06:02	351700	5379688		
			126	18:07:05	351423	5379977	0.400	252
TRAVERSE	194	L4219422	126	18:08:35	352790	5380384		
			496	18:11:40	359128	5380391	6.338	48
TRAVERSE	193	L4219321	496	18:12:38	359468	5380581		
			1041	18:17:11	352704	5380578	6.764	147
TRAVERSE	192	L4219221	1041	18:17:48	352685	5380778		
			1526	18:21:51	359907	5380791	7.222	124
TRAVERSE	191	L4219121	1526	18:22:46	360276	5380968		
			2031	18:26:59	352618	5380979	7.658	124
TRAVERSE	190	L4219021	2031	18:27:35	352611	5381180		
			2516	18:31:37	360745	5381188	8.134	189
PER.ALTB	3	C4200323	2516	18:32:14	361744	5381078		
			2641	18:33:16	363093	5381339	1.374	250
TRAVERSE	189	L4218921	2641	18:34:32	360999	5381376		
			3201	18:39:12	352527	5381370	8.472	38
TRAVERSE	188	L4218821	3201	18:39:44	352527	5381578		
			3771	18:44:29	361306	5381582	8.779	160
TRAVERSE	187	L4218721	3771	18:45:43	361565	5381773		
			4451	18:51:23	352374	5381775	9.191	148
TRAVERSE	186	L4218621	4451	18:51:56	352431	5381966		
			5146	18:57:43	361904	5381977	9.473	109
PER.ALTB	3	C4200324	5146	18:58:28	363348	5382005		
			5326	18:59:58	364184	5381635	0.914	360
TRAVERSE	185	L4218521	5326	19:03:53	362148	5382184		
			6116	19:10:28	352325	5382179	9.823	112
PER.ALTB	3	C4200325	6116	19:11:46	350469	5380924		
			6296	19:13:16	348407	5379481	2.517	360

FLIGHT LOG FOR FLIGHT 43 DOY 339 LocalTime 19:13:51 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C4300331	0	19:20:24	333485	5375057		
			591	19:25:19	332245	5376123	1.635	931
PER.ALTB	3	C4300332	591	19:25:25	332441	5376160		
			731	19:26:35	333589	5377564	1.814	280
TIE.LINE	1	T4300131	731	19:29:37	335137	5373579		
			1301	19:34:22	340591	5366753	8.737	59
TIE.LINE	3	T4300331	1301	19:36:50	339126	5367974		
			1646	19:39:42	339127	5373674	5.700	172

TIE.LINE	2	T4300231	1646	19:41:24	337138	5373583		
			1861	19:43:11	337205	5370372	3.212	56
TIE.LINE	4	T4300431	1861	19:47:04	341113	5366797		
			2166	19:49:37	341115	5373625	6.828	28
PER.ALTB	3	C4300333	2166	19:51:34	345322	5375910		
			2301	19:52:42	347902	5376805	2.731	271
PSTQ.CAL	5	H4300531	2301	20:25:47	411400	5396020		
			2596	20:28:15	411400	5396020	0.000	297

FLIGHT LOG FOR FLIGHT 44 DOY 340 LocalTime 08:30:30 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A4400120	0 08:35:33	411401	5396020		
			231 08:37:29	411400	5396019	0.001	231
PER.ALTB	3	C4400321	231 08:59:59	397851	5392248		
			361 09:01:03	395159	5391216	2.883	260
PER.ALTB	3	C4400322	361 09:09:53	373241	5382067		
			491 09:10:58	370401	5380726	3.141	260
TRAVERSE	200	L4420021	491 09:16:28	357755	5379174		
			896 09:19:51	352980	5379173	4.775	37
TRAVERSE	199	L4419921	896 09:21:01	353039	5379381		
			1326 09:24:36	357817	5379382	4.778	82
TRAVERSE	198	L4419821	1326 09:25:50	357742	5379579		
			1691 09:28:53	352922	5379573	4.820	65
TRAVERSE	197	L4419721	1691 09:29:35	352912	5379776		
			2086 09:32:52	357982	5379787	5.070	36
PER.ALTB	3	C4400323	2086 09:34:06	359801	5380532		
			2236 09:35:21	362699	5380729	2.905	300
TRAVERSE	184	L4418421	2236 09:37:28	362437	5382380		
			3041 09:44:10	352250	5382376	10.187	371
TRAVERSE	183	L4418321	3041 09:44:59	352296	5382585		
			3976 09:52:47	362752	5382573	10.456	397
PER.ALTB	3	C4400324	3976 09:53:26	363871	5382401		
			4141 09:54:48	365588	5382240	1.725	330
TRAVERSE	182	L4418221	4141 09:56:16	362970	5382792		
			5001 10:03:26	352210	5382775	10.760	421
TRAVERSE	181	L4418121	5001 10:04:05	352204	5382964		
			5921 10:11:45	363317	5382985	11.113	226
TRAVERSE	180	L4418021	5921 10:12:41	363564	5383169		
			6926 10:21:04	352071	5383181	11.493	281
PER.ALTB	3	C4400325	6926 10:21:58	351296	5384262		
			7161 10:23:55	353455	5387916	4.244	470
TRAVERSE	151	L4415121	7161 10:28:35	363646	5388983		
			7986 10:35:28	371671	5388993	8.025	356
TRAVERSE	150	L4415021	7986 10:36:38	371877	5389194		
			8926 10:44:28	363689	5389172	8.188	463
PER.ALTB	3	C4400326	8926 10:45:09	362604	5389314		
			9046 10:46:09	361146	5388940	1.505	241
TRAVERSE	149	L4414921	9046 10:47:57	363829	5389387		
			9906 10:55:07	372186	5389387	8.357	502
TRAVERSE	148	L4414821	9906 10:55:55	372409	5389567		
			10806 11:03:25	363874	5389581	8.535	425
TRAVERSE	147	L4414721	10806 11:04:30	364066	5389786		
			11611 11:11:13	372723	5389789	8.657	441
PER.ALTB	3	C4400327	11611 11:13:12	373874	5389733		
			11696 11:13:54	374685	5389549	0.832	170
Hum Dropout							
PER.ALTB	3	C4400328	11696 11:15:54	374830	5390189		
			11826 11:16:59	375111	5389142	1.084	260
TRAVERSE	146	L4414621	11826 11:18:39	372926	5389986		
			12866 11:27:19	364130	5389976	8.796	325
TRAVERSE	145	L4414521	12866 11:28:15	364270	5390182		
			13706 11:35:15	373251	5390196	8.981	554
PER.ALTB	3	C4400329	13706 11:36:49	375821	5390990		
			13861 11:38:06	378352	5391979	2.717	310

PST.TSTL	4	D4400421	13861	11:45:27	396391	5399194		
			14241	11:48:37	401338	5399189	4.947	176
PER.ALTB	3	F4400320	0	11:52:42	409140	5397637		
			96	11:53:30	411206	5397380	2.082	193

FLIGHT LOG FOR FLIGHT 45 DOY 340 LocalTime 12:35:53 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C4500321	0 12:52:10	380257	5390382		
			116 12:53:08	377517	5390345	2.740	232
TRAVERSE	144	L4514421	116 12:55:30	373464	5390378		
			876 13:01:50	364312	5390375	9.152	418
TRAVERSE	143	L4514321	876 13:02:50	364476	5390582		
			1691 13:09:38	373774	5390585	9.298	512
TRAVERSE	142	L4514221	1691 13:10:13	373997	5390788		
			1721 13:10:28	373772	5390804	0.226	32
SCRUB							
TRAVERSE	142	L4514222	1721 13:11:34	373984	5390779		
			2521 13:18:14	364534	5390777	9.450	671
PER.ALTB	3	C4500322	2521 13:19:04	363744	5390466		
			2636 13:20:02	362480	5390097	1.317	230
TRAVERSE	141	L4514121	2636 13:21:33	364693	5390983		
			3461 13:28:26	374309	5390986	9.616	779
TRAVERSE	140	L4514021	3461 13:29:30	374521	5391186		
			4271 13:36:15	364769	5391177	9.752	720
TRAVERSE	139	L4513921	4271 13:37:09	364934	5391383		
			5081 13:43:54	374817	5391388	9.883	716
PER.ALTB	3	C4500323	5081 13:44:30	375740	5391405		
			5201 13:45:30	375995	5390532	0.909	240
TRAVERSE	138	L4513821	5201 13:48:05	375032	5391576		
			6066 13:55:18	365004	5391579	10.028	601
TRAVERSE	137	L4513721	6066 13:56:15	365128	5391788		
			6866 14:02:55	375345	5391788	10.217	662
TRAVERSE	136	L4513621	6866 14:04:06	375552	5391978		
			7691 14:10:59	365221	5391981	10.331	628
PER.ALTB	3	C4500324	7691 14:11:52	365499	5390868		
			7806 14:12:49	366793	5388990	2.281	230
TRAVERSE	155	L4515524	7806 14:15:14	370564	5388182		
			8516 14:21:09	362207	5388156	8.357	517
PER.ALTB	3	C4500325	0 14:26:14	358655	5384393		
			111 14:27:09	358646	5386111	1.718	222
TRAVERSE	169	L4516922	111 14:28:30	357697	5385379		
			606 14:32:38	351608	5385380	6.089	134
TRAVERSE	155	L4515525	606 14:36:33	359519	5388186		
			1571 14:44:36	370593	5388186	11.074	483
PER.ALTB	3	C4500326	1571 14:45:44	372014	5388879		
			1681 14:46:39	373478	5390662	2.307	220
TRAVERSE	135	L4513521	1681 14:48:54	375829	5392175		
			2566 14:56:16	365328	5392179	10.501	686
TRAVERSE	134	L4513421	2566 14:58:02	365454	5392378		
			3491 15:05:44	376154	5392385	10.700	721
TRAVERSE	133	L4513321	3491 15:07:05	376381	5392587		
			4451 15:15:05	365521	5392576	10.860	628
PER.ALTB	3	C4500327	4451 15:15:36	364867	5392520		
			4561 15:16:31	364398	5392549	0.470	221
TRAVERSE	132	L4513221	4561 15:18:07	365572	5392787		
			5536 15:26:15	376658	5392786	11.086	655
PER.ALTB	3	C4500328	5536 15:28:00	380074	5394289		
			5646 15:28:55	382370	5395688	2.689	221
PER.ALTB	3	C4500329	5646 15:29:51	384804	5396899		
			5761 15:30:48	387185	5397979	2.614	230
PST.TSTL	4	D4500429	5761 15:33:57	395179	5399188		
			6206 15:37:40	401350	5399186	6.171	397
PER.ALTB	3	C4500320	6206 15:39:19	404742	5398747		
			6366 15:40:39	408669	5398012	3.995	320

FLIGHT LOG FOR FLIGHT 46 DOY 340 LocalTime 16:15:02 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C4600321	0 16:34:49	379177	5390380		
			111 16:35:45	378298	5392547	2.338	222
TRAVERSE	131	L4613121	111 16:37:17	376896	5392980		
			1241 16:46:42	365549	5392982	11.347	851
PER.ALTB	3	C4600323	1241 16:47:16	364664	5392880		
			1426 16:48:48	361819	5391847	3.027	370
PER.ALTB	3	C4600322	1426 17:02:43	328064	5377104		
			1986 17:07:23	330941	5374324	4.001	1067
PER.ALTB	3	C4600324	1986 17:08:52	330085	5372310		
			2406 17:12:22	329875	5371374	0.959	807
PER.ALTB	3	C4600325	2406 17:21:24	346270	5385764		
			2576 17:22:49	350029	5387747	4.250	341
PER.ALTB	3	C4600326	2576 17:26:39	358739	5393479		
			2691 17:27:36	360818	5393046	2.124	230
TRAVERSE	130	L4613021	2691 17:29:50	365575	5393186		
			3941 17:40:15	377538	5393188	11.963	848
TRAVERSE	128	L4612821	3941 17:41:42	377694	5393585		
			4736 17:48:20	370030	5393574	7.664	496
TRAVERSE	127	L4612721	4736 17:49:13	370117	5393783		
			5571 17:56:11	377978	5393784	7.861	569
PER.ALTB	3	C4600327	5571 17:56:39	378677	5393763		
			5681 17:57:34	380066	5393762	1.389	220
TRAVERSE	126	L4612621	5681 17:59:09	378196	5393980		
			6516 18:06:12	370275	5393978	7.921	668
Part line	Hum dropout						
PER.ALTB	3	C4600328	6516 18:08:05	374029	5393939		
			6621 18:08:57	375284	5393941	1.255	210
TRAVERSE	126	L4612622	6621 18:09:58	374763	5393978		
			7076 18:13:45	370117	5393982	4.646	287
part line							
TRAVERSE	125	L4612521	7076 18:14:33	370233	5394186		
			7871 18:21:11	378241	5394179	8.008	646
TRAVERSE	124	L4612421	7871 18:22:39	378218	5394377		
			8746 18:29:57	370222	5394377	7.996	644
TRAVERSE	123	L4612321	8746 18:30:55	370342	5394576		
			9501 18:37:13	378269	5394588	7.927	530
PER.ALTB	3	C4600329	9501 18:37:57	379106	5394567		
			9606 18:38:50	379495	5394473	0.400	211
TRAVERSE	122	L4612221	9606 18:39:54	378213	5394777		
			10301 18:45:42	370371	5394782	7.842	558
TRAVERSE	121	L4612121	10301 18:46:34	370465	5394981		
			11016 18:52:32	378238	5394984	7.773	594
PER.ALTB	3	C4600320	11016 18:54:42	382452	5394782		
			11151 18:55:49	386026	5395018	3.582	270
PSTQ.CAL	5	H4600521	11151 19:15:39	411400	5396021		
			11426 19:17:57	411400	5396020	0.001	1221

FLIGHT LOG FOR FLIGHT 47 DOY 341 LocalTime 06:39:43 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A4700120	0 06:48:38	411401	5396021		
			191 06:50:13	411400	5396020	0.001	191
PER.ALTB	3	C4700321	191 07:20:38	384591	5384928		
			371 07:22:08	381609	5382615	3.774	360
PER.ALTB	3	C4700320	0 16:10:50	408322	5397689		
			131 16:11:56	406448	5398106	1.920	262
PST.TSTL	4	D4700420	131 16:14:49	401323	5399187		
			591 16:18:39	396356	5399184	4.967	282

PER.ALTB	3	C4700322	591	16:19:55	394270	5399134		
			766	16:21:23	391131	5399043	3.140	351
PER.ALTB	3	C4700323	766	16:29:00	374240	5394423		
			896	16:30:05	372022	5393050	2.609	260
TRAVERSE	157	L4715722	896	16:34:05	370041	5387784		
			2386	16:46:30	359472	5387775	10.569	413
Partline								
PER.ALTB	3	C4700324	2386	16:47:04	358616	5387542		
			2416	16:47:19	358302	5387281	0.408	60
PER.ALTB	3	C4700325	2416	16:49:09	358762	5387933		
			2541	16:50:11	360073	5388228	1.344	250
TRAVERSE	157	L4715723	2541	16:52:53	363623	5387783		
			2886	16:55:45	361102	5387821	2.521	106
PER.ALTB	3	C4700326	2886	16:58:21	365111	5386881		
			3016	16:59:26	365207	5387661	0.786	260
TRAVERSE	157	L4715724	3016	17:00:37	363722	5387785		
			3551	17:05:05	359431	5387782	4.291	130
Partline								
TRAVERSE	156	L4715622	3551	17:06:16	359506	5387980		
			4901	17:17:31	370324	5387991	10.818	436
PER.ALTB	3	C4700327	4901	17:20:59	374300	5390018		
			5241	17:23:49	381930	5391296	7.736	680

FLIGHT LOG FOR FLIGHT 48 DOY 346 LocalTime 08:01:12 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A4800120	0 08:11:30	411400	5396019		
			1166 08:21:13	411399	5396019	0.001	1166
Newcal							
PSTQ.CAL	5	H4800521	1166 08:23:28	411399	5396019		
			2141 08:31:36	411400	5396018	0.001	975
Oldcal							
PER.ALTB	3	C4800320	0 10:51:05	407068	5399681		
			126 10:52:07	407578	5400490	0.956	252
PST.TSTL	4	D4800420	126 10:55:28	401309	5399186		
			531 10:58:51	396362	5399185	4.947	266
PER.ALTB	3	C4800321	531 11:08:09	388576	5396114		
			681 11:09:24	388339	5394914	1.223	298

FLIGHT LOG FOR FLIGHT 49 DOY 346 LocalTime 14:36:28 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C4900320	0 14:47:59	406274	5397389		
			141 14:49:09	407588	5398282	1.589	282
PST.TSTL	4	D4900420	141 14:52:32	401026	5399182		
			441 14:55:02	396334	5399177	4.692	218
PER.ALTB	3	C4900321	441 14:56:03	394179	5399569		
			566 14:57:05	391642	5400626	2.748	250
PER.ALTB	3	C4900322	566 15:00:47	383916	5401892		
			736 15:02:12	381673	5402013	2.246	340
TRAVERSE	77	L4907721	736 15:03:23	379526	5401977		
			2441 15:17:36	354470	5401975	25.056	967
TRAVERSE	78	L4907821	2441 15:18:36	354505	5401782		
			3691 15:29:02	372329	5401785	17.824	854
Hum dropout							
PER.ALTB	3	C4900323	3691 15:31:05	376344	5404309		
			3821 15:32:10	377603	5407546	3.473	260
PER.ALTB	3	C4900324	3821 15:43:54	382665	5404846		
			4151 15:46:39	388889	5400644	7.510	660
PST.TSTL	4	D4900424	4151 15:49:11	396402	5399181		
			4461 15:51:46	401382	5399186	4.980	205
PER.ALTB	3	C4900325	0 15:54:51	408866	5397784		
			116 15:55:50	411458	5398407	2.666	233

FLIGHT LOG FOR FLIGHT 50 DOY 313 LocalTime 14:12:30 Area 1 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PRE.TEST	2	E5000211	0 14:22:19	434031	5417962		
			706 14:28:12	434324	5418625	0.725	671

FLIGHT LOG FOR FLIGHT 51 DOY 350 LocalTime 09:01:47 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A5100120	0 10:07:34	411400	5396019		
			196 10:09:12	411400	5396019	0.000	196
PER.ALTB	3	C5100320	196 10:21:36	410918	5400497		
			336 10:22:46	408641	5399988	2.333	280
PST.TSTL	4	D5100420	336 10:26:31	401324	5399189		
			681 10:29:24	396362	5399185	4.962	307
PER.ALTB	3	C5100322	681 10:30:45	393703	5399540		
			836 10:32:02	390757	5400918	3.252	310
TRAVERSE	77	L5107722	836 10:36:38	379551	5401981		
			1396 10:41:18	370738	5401973	8.813	494
PER.ALTB	3	C5100323	1396 10:41:57	371689	5401779		
			2166 10:48:22	390625	5402631	18.955	1540
PER.ALTB	3	C5100321	2166 10:48:30	391012	5402580		
			2481 10:51:07	398127	5400517	7.408	630
PER.ALTB	3	C5100324	2481 10:51:48	400042	5400194		
			2831 10:54:43	402013	5399094	2.257	662
PER.ALTB	3	C5100325	2831 10:57:31	410145	5397931		
			3271 11:01:11	411400	5396019	2.287	638

FLIGHT LOG FOR FLIGHT 52 DOY 351 LocalTime 13:06:46 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A5200120	0 13:06:56	411399	5396019		
			221 13:08:46	411399	5396018	0.001	221
PER.ALTB	3	F5200320	221 13:39:48	405538	5399376		
			346 13:40:51	407623	5401081	2.693	251
PST.TSTL	4	D5200420	346 13:43:54	401319	5399181		
			711 13:46:57	396364	5399184	4.955	232
PER.ALTB	3	C5200323	711 13:51:13	385790	5401967		
			816 13:52:05	383655	5401997	2.135	210
TRAVERSE	77	L5207723	816 13:53:50	379533	5401978		
			2696 14:09:31	354479	5401976	25.054	838
PER.ALTB	3	C5200322	2696 14:13:23	353116	5403476		
			2846 14:14:38	351991	5401808	2.012	300
TRAVERSE	79	L5207921	2846 14:16:41	354515	5401591		
			4926 14:34:01	379504	5401586	24.989	1093
PER.ALTB	3	C5200321	4926 14:35:21	381822	5402376		
			5036 14:36:16	383464	5402774	1.690	220
TRAVERSE	78	L5207822	5036 14:38:24	379474	5401779		
			6956 14:54:24	354486	5401779	24.988	1107
PER.ALTB	3	C5200324	6956 14:55:06	353538	5401805		
			7146 14:56:41	351310	5401103	2.336	380
TRAVERSE	80	L5208021	7146 14:59:35	354521	5401389		
			8956 15:14:40	379417	5401382	24.896	1162
PER.ALTB	3	C5200325	8956 15:15:19	380342	5401491		
			9076 15:16:19	382726	5401897	2.418	240
PST.TSTL	4	D5200425	9076 15:21:50	396871	5399184		
			9421 15:24:43	401367	5399185	4.496	248
PER.ALTB	3	F5200325	9421 15:25:50	403034	5398851		

			9421	15:25:50	403034	5398851	0.000	1
PER.ALTB	3	F5200326	9421	15:26:54	405346	5398024		
			9421	15:26:54	405346	5398024	0.000	1
PER.ALTB	3	F5200327	9421	15:27:05	405830	5397910		
			9426	15:27:07	405925	5397892	0.097	10
PER.ALTB	3	F5200328	9426	15:27:15	406313	5397835		
			9436	15:27:21	406580	5397808	0.268	26
PER.ALTB	3	F5200329	9436	15:27:41	407612	5397768		
			9476	15:28:01	408611	5397820	1.000	80
PER.ALTB	3	F5200321	0	17:30:38	409210	5397567		
			141	17:31:48	406387	5397796	2.832	282
PST.TSTL	4	D5200421	141	17:34:18	401323	5399184		
			526	17:37:31	396363	5399182	4.960	242
PER.ALTB	3	F5200322	526	17:38:38	394100	5399536		
			696	17:40:03	390430	5400693	3.848	340
TRAVERSE	81	L5208121	696	17:44:31	379290	5401181		
			1886	17:54:26	363092	5401378	16.199	656
TRAVERSE	82	L5208221	1886	17:56:08	366263	5401673		
			1886	17:56:08	366263	5401673	0.000	3
TRAVERSE	83	L5208321	1886	17:56:09	366301	5401679		
			1921	17:56:27	367049	5401789	0.756	75
PER.ALTB	3	C5200326	1921	17:57:27	369093	5401937		
			2036	17:58:24	370210	5401424	1.229	230
TRAVERSE	81	L5208122	2036	17:58:44	370119	5401091		
			3296	18:09:14	354486	5401181	15.633	706
PER.ALTB	3	C5200327	3296	18:09:50	353620	5401123		
			3396	18:10:40	352836	5400947	0.804	200
TRAVERSE	82	L5208222	3396	18:11:44	354502	5400987		
			5346	18:28:00	379241	5400982	24.739	1074
PER.ALTB	3	C5200328	5346	18:28:35	380295	5401017		
			5486	18:29:45	383354	5400904	3.061	280

FLIGHT LOG FOR FLIGHT 53 DOY 352 LocalTime 08:09:41 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A5300121	0 08:40:55	411400	5396019		
			201 08:42:35	411400	5396019	0.000	201
PER.ALTB	3	C5300321	201 08:59:22	407489	5397889		
			351 09:00:37	405821	5399173	2.105	301
PRE.TSTL	2	D5300221	351 09:04:04	401325	5399184		
			721 09:07:09	396357	5399183	4.968	237
PER.ALTB	3	C5300322	721 09:09:18	390933	5399786		
			931 09:11:03	386294	5402068	5.170	420
TRAVERSE	77	L5307724	931 09:13:25	379541	5401977		
			2171 09:23:45	361188	5401978	18.353	367
TRAVERSE	77	L5307725	2171 09:26:37	365198	5401984		
			3096 09:34:20	354476	5401975	10.722	374
PER.ALTB	3	C5300323	3096 09:35:05	353778	5401531		
			3221 09:36:07	354659	5400347	1.476	250
PER.ALTB	3	C5300324	0 10:06:39	350476	5398012		
			151 10:07:54	351257	5401032	3.119	302
TRAVERSE	78	L5307823	151 10:09:55	354505	5401783		
			1891 10:24:26	379508	5401785	25.003	961
PER.ALTB	3	C5300325	1891 10:24:58	380500	5401859		
			2236 10:27:50	387750	5401677	7.252	690
PST.TSTL	4	F5300421	2236 10:31:04	396413	5399185		
			2566 10:33:49	401385	5399182	4.972	264

FLIGHT LOG FOR FLIGHT 54 DOY 352 LocalTime 09:36:30 Area 6 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C5400361	0 09:36:42	354990	5399343		
		146	09:37:55	355773	5397149	2.330	292
TRAVERSE	38	L5403861	146 09:39:18	354715	5396980		
		636	09:43:23	350976	5396979	3.739	256
TRAVERSE	37	L5403761	636 09:44:25	351005	5397187		
		1241	09:49:28	354742	5397182	3.737	267
TRAVERSE	36	L5403661	1241 09:50:34	354724	5397383		
		1796	09:55:11	350964	5397380	3.760	253
TRAVERSE	35	L5403561	1796 09:56:08	350995	5397588		
		1831	09:56:26	351089	5397586	0.094	34
PER.ALTB	3	C5400362	1831 10:01:01	350310	5400137		
		2026	10:02:38	351408	5401219	1.542	390

FLIGHT LOG FOR FLIGHT 55 DOY 34 LocalTime 07:50:42 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A5500131	0 08:07:43	363100	5361293		
		271	08:09:59	363100	5361293	0.000	542
PER.ALTB	3	C5500331	271 08:43:29	361613	5377813		
		416	08:44:41	362780	5381538	3.904	290
TRAVERSE	139	L5513932	416 08:51:17	376010	5385789		
		1786	09:02:42	389771	5385792	13.761	1139
PER.ALTB	3	C5500332	1786 09:04:18	390508	5383677		
		1966	09:05:48	389962	5380194	3.526	360
TRAVERSE	178	L5517832	1966 09:07:51	387421	5377987		
		3846	09:23:31	369552	5377986	17.869	1337
PER.ALTB	3	C5500333	3846 09:24:33	368458	5377964		
		3971	09:25:35	367208	5377882	1.253	250
TRAVERSE	179	L5517931	3971 09:27:05	369304	5377788		
		5661	09:41:11	387447	5377790	18.143	1329
TRAVERSE	180	L5518031	5661 09:42:06	387411	5377587		
		7241	09:55:16	368956	5377586	18.455	1164
PER.ALTB	3	C5500334	7241 09:56:06	367581	5377561		
		7371	09:57:11	366121	5377438	1.465	260
TRAVERSE	181	L5518131	7371 09:58:45	368683	5377388		
		8866	10:11:13	387476	5377392	18.793	1173
TRAVERSE	182	L5518231	8866 10:12:18	387420	5377186		
		10301	10:24:16	368319	5377186	19.101	972
PER.ALTB	3	C5500335	10301 10:24:48	367292	5377172		
		10426	10:25:50	365785	5377165	1.507	250
TRAVERSE	183	L5518331	10426 10:27:27	368070	5376989		
		11971	10:40:20	387439	5376987	19.369	945
TRAVERSE	184	L5518431	11971 10:41:10	387419	5376790		
		13551	10:54:20	367696	5376785	19.723	1056
PER.ALTB	3	C5500336	13551 10:54:50	366740	5376751		
		13741	10:56:25	365904	5373789	3.078	380
PRE.TSTL	2	D5500231	13741 11:01:36	363311	5362207		
		13816	11:02:13	363128	5361107	1.115	76
PRE.TSTL	2	D5500232	13816 11:03:15	363131	5361119		
		13876	11:03:45	363325	5362290	1.187	0

FLIGHT LOG FOR FLIGHT 56 DOY 34 LocalTime 11:56:20 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C5600331	0 12:02:13	363578	5363591		
			251 12:04:18	364608	5369532	6.030	502
TRAVERSE	185	L5618531	251 12:07:13	367435	5376587		
			1861 12:20:38	387453	5376591	20.018	782
TRAVERSE	186	L5618631	1861 12:21:37	387414	5376390		
			3491 12:35:12	367073	5376382	20.341	818
PER.ALTB	3	C5600332	3491 12:35:28	366539	5376370		
			3616 12:36:30	364861	5376364	1.678	250
TRAVERSE	187	L5618731	3616 12:37:47	366819	5376195		
			5301 12:51:50	387454	5376194	20.635	1045
TRAVERSE	188	L5618831	5301 12:53:15	387413	5375989		
			6786 13:05:38	366415	5375983	20.998	974
PER.ALTB	3	C5600333	6786 13:06:04	365628	5375923		
			6926 13:07:14	363926	5375670	1.721	280
TRAVERSE	189	L5618931	6926 13:08:41	366452	5375787		
			8666 13:23:11	387440	5375790	20.988	1176
TRAVERSE	190	L5619031	8666 13:24:43	387410	5375595		
			10506 13:40:03	366351	5375586	21.059	1580
PER.ALTB	3	C5600334	10506 13:40:29	365492	5375582		
			10656 13:41:44	363703	5375672	1.791	300
PER.ALTB	3	C5600335	10656 13:45:21	362739	5375063		
			10781 13:46:23	361314	5374614	1.494	250
TRAVERSE	194	L5619431	10781 13:49:01	366192	5374789		
			12571 14:03:56	389032	5374785	22.840	1470
TRAVERSE	195	L5619531	12571 14:04:55	389021	5374593		
			14441 14:20:30	366047	5374588	22.974	1342
PER.ALTB	3	C5600336	14441 14:21:17	364853	5374437		
			14606 14:22:39	363728	5371742	2.920	330
PST.TSTL	4	F5600431	14606 14:26:33	363310	5362192		
			14681 14:27:10	363101	5360940	1.269	0
PER.ALTB	3	C5600337	14681 14:27:47	363715	5360649		
			14801 14:28:46	364008	5362112	1.492	237

FLIGHT LOG FOR FLIGHT 57 DOY 34 LocalTime 15:39:27 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C5700331	0 15:48:04	363494	5365541		
			156 15:49:22	363752	5369452	3.920	312
TRAVERSE	191	L5719131	156 15:52:08	366340	5375393		
			1616 16:04:18	383564	5375385	17.224	1023
TRAVERSE	190	L5719032	1616 16:05:08	383757	5375592		
			2216 16:10:08	377034	5375583	6.723	366
TRAVERSE	191	L5719132	2216 16:10:44	377108	5375389		
			3341 16:20:07	389037	5375386	11.929	534
PER.ALTB	3	C5700332	3341 16:20:43	389742	5375358		
			3466 16:21:46	391334	5375260	1.595	251
TRAVERSE	192	L5719231	3466 16:23:30	389008	5375184		
			5871 16:43:33	366239	5375185	22.769	1582
PER.ALTB	3	C5700333	5871 16:44:18	364761	5375102		
			6001 16:45:23	362771	5375148	1.991	260
PSTQ.CAL	5	H5700531	6001 16:57:22	363092	5361294		
			6231 16:59:17	363092	5361293	0.001	230

FLIGHT LOG FOR FLIGHT 58 DOY 35 LocalTime 08:02:00 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A5800131	0 08:09:34	363091	5361294		
			291 08:12:00	363092	5361294	0.001	291
PER.ALTB	3	C5800331	291 08:38:52	363719	5370447		
			416 08:39:54	363648	5373812	3.366	250
TRAVERSE	193	L5819331	416 08:43:13	366245	5374990		
			2846 09:03:28	389032	5374985	22.787	1722
PER.ALTB	3	C5800332	2846 09:04:06	389478	5375002		
			2971 09:05:08	390488	5374693	1.056	250
TRAVERSE	196	L5819631	2971 09:07:13	389017	5374395		
			5016 09:24:16	366058	5374390	22.959	2104
PER.ALTB	3	C5800333	5016 09:25:08	365029	5374331		
			5131 09:26:06	363180	5374043	1.871	231
TRAVERSE	197	L5819731	5131 09:28:34	366041	5374192		
			7291 09:46:35	389038	5374188	22.997	2265
PER.ALTB	3	C5800334	7291 09:47:10	389736	5374174		
			7411 09:48:10	391230	5374126	1.495	240
TRAVERSE	198	L5819831	7411 09:49:52	389012	5373993		
			9521 10:07:27	365950	5373990	23.062	2094
PER.ALTB	3	C5800335	9521 10:07:59	365289	5373907		
			9656 10:09:06	362963	5374206	2.345	270
TRAVERSE	199	L5819931	9656 10:11:14	365918	5373786		
			9711 10:11:41	366353	5373756	0.436	53
PER.ALTB	3	C5800336	0 10:13:59	362526	5374716		
			121 10:14:59	360330	5374484	2.208	242
TRAVERSE	199	L5819932	121 10:17:59	365914	5373788		
			2091 10:34:25	389030	5373785	23.116	1734
PER.ALTB	3	C5800337	2091 10:35:02	389500	5373806		
			2206 10:36:00	390819	5374432	1.460	231
TRAVERSE	200	L5820031	2206 10:37:55	389013	5373593		
			4071 10:53:28	365831	5373587	23.182	1909
PER.ALTB	3	C5800338	4071 10:53:50	365225	5373573		
			4191 10:54:50	363342	5374111	1.958	240
TRAVERSE	202	L5820231	4191 10:57:11	365818	5373386		
			6246 11:14:19	389055	5373387	23.237	1792
PER.ALTB	3	C5800339	6246 11:14:37	389417	5373454		
			6361 11:15:34	390723	5374266	1.538	230
TRAVERSE	205	L5820531	6361 11:18:56	389016	5373191		
			8186 11:34:09	365743	5373186	23.273	1363
PER.ALTB	3	C5800330	8186 11:34:58	365039	5372118		
			8341 11:36:16	364456	5369259	2.918	311
PST.TSTL	4	F5800431	8341 11:39:20	363309	5362190		
			8421 11:40:00	363099	5360914	1.293	6
PER.ALTB	3	Q5800331	8421 11:40:19	363359	5360519		
			8541 11:41:19	364459	5362015	1.857	239

FLIGHT LOG FOR FLIGHT 59 DOY 35 LocalTime 13:02:09 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C5900331	0 13:09:49	363325	5369636		
			111 13:10:44	362425	5372401	2.908	222
TRAVERSE	208	L5920831	111 13:13:18	365720	5372955		
			2286 13:31:26	389038	5372986	23.318	1459
PER.ALTB	3	C5900332	2286 13:31:56	389503	5373302		
			2401 13:32:53	390642	5374924	1.982	230
TRAVERSE	211	L5921131	2401 13:34:48	389015	5372787		
			4306 13:50:41	365590	5372787	23.425	1317
PER.ALTB	3	C5900333	4306 13:51:10	364908	5372747		
			4431 13:52:12	363218	5372544	1.702	250
TRAVERSE	214	L5921431	4431 13:54:02	365639	5372588		

			6271	14:09:22	389048	5372586	23.409	1214
PER.ALTB	3	C5900334	6271	14:09:52	389624	5372960		
			6386	14:10:49	390969	5374154	1.799	230
TRAVERSE	217	L5921731	6386	14:12:29	389018	5372391		
			8281	14:28:17	365522	5372388	23.496	1058
PER.ALTB	3	C5900335	8281	14:28:49	364643	5372329		
			8391	14:29:44	362793	5372178	1.856	221
TRAVERSE	219	L5921931	8391	14:31:53	365507	5372197		
			10286	14:47:41	389044	5372189	23.537	1145
PER.ALTB	3	C5900336	10286	14:48:41	390350	5372315		
			10401	14:49:38	391202	5371559	1.139	230
TRAVERSE	221	L5922131	10401	14:51:19	389018	5371993		
			11331	14:59:04	377809	5371985	11.209	606
PER.ALTB	3	C5900337	0	15:01:16	382682	5372630		
			111	15:02:11	384739	5372959	2.083	222
TRAVERSE	221	L5922132	111	15:03:18	385045	5371993		
			1566	15:15:26	365427	5371992	19.618	741
PER.ALTB	3	C5900338	1566	15:16:02	364627	5371512		
			1861	15:18:29	363866	5365862	5.701	590

FLIGHT LOG FOR FLIGHT 60 DOY 35 LocalTime 16:11:58 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C6000331	0	16:14:32	363073	5363073	
			141	16:15:42	363073	5366320	3.247
TRAVERSE	223	L6022331	141	16:18:59	365405	5371785	
			751	16:24:04	370980	5371771	5.575
PER.ALTB	3	C6000332	751	16:27:05	365210	5371901	
			876	16:28:07	362608	5371935	2.602
TIE.LINE	19	T6001931	876	16:37:29	371117	5379090	
			2751	16:53:07	371117	5359972	19.118
PER.ALTB	3	C6000333	2751	16:54:31	371780	5358561	
			2881	16:55:37	372733	5358733	0.968
PER.ALTB	3	C6000334	2881	16:59:59	370136	5367574	
			3006	17:01:01	367619	5369716	3.305
TRAVERSE	223	L6022332	3006	17:03:01	365390	5371788	
			4926	17:19:01	389043	5371788	23.653
PER.ALTB	3	C6000335	4926	17:20:03	390401	5371617	
			5046	17:21:03	391086	5370474	1.333
TRAVERSE	225	L6022531	5046	17:23:07	389000	5371589	
			7051	17:39:50	365324	5371585	23.676
PER.ALTB	3	C6000336	7051	17:40:10	364563	5371579	
			7131	17:40:50	363344	5371621	1.220
TRAVERSE	227	L6022731	7131	17:42:50	365319	5371388	
			9011	17:58:31	389050	5371385	23.731
PER.ALTB	3	C6000337	9011	17:59:11	390206	5371455	
			9136	18:00:13	391495	5370979	1.374
TRAVERSE	229	L6022931	9136	18:02:23	388993	5371193	
			11166	18:19:26	365186	5371190	23.807
PER.ALTB	3	C6000338	11166	18:20:48	363688	5370389	
			11381	18:22:36	363588	5366760	3.630
PST.TSTL	4	F6000431	11381	18:24:38	363310	5362195	
			11461	18:25:18	363096	5360900	1.313
PER.ALTB	3	C6000339	11461	18:25:45	363414	5360306	
			11611	18:27:00	363706	5362862	2.573
PSTQ.CAL	5	H6000531	11611	18:37:38	363091	5361294	
			11881	18:39:53	363091	5361294	0.000

FLIGHT LOG FOR FLIGHT 61 DOY 36 LocalTime 10:35:31 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6100131	0 10:44:42	363091	5361293		
			271 10:46:58	363091	5361294	0.001	271
PER.ALTB	3	C6100331	271 11:07:37	365828	5365192		
			426 11:08:54	365960	5366736	1.550	310
PRE.TSTL	2	D6100231	426 11:11:18	363308	5362166		
			466 11:11:53	363098	5360880	1.303	207
TRAVERSE	359	L6135931	466 11:16:17	357754	5359385		
			476 11:18:50	353043	5359393	4.711	55 ?
PER.ALTB	3	C6100332	0 13:57:29	349611	5366837		
			126 13:58:32	346319	5367914	3.464	252
TRAVERSE	201	L6120131	126 14:04:52	341200	5373387		
			551 14:08:25	334917	5373385	6.283	335
TRAVERSE	203	L6120331	551 14:09:52	335014	5373189		
			1036 14:13:54	341997	5373194	6.983	265
TRAVERSE	206	L6120631	1036 14:16:05	342633	5372983		
			1576 14:20:35	334975	5372985	7.658	438
TRAVERSE	209	L6120931	1576 14:21:23	335173	5372794		
			2101 14:25:46	343404	5372792	8.231	481
PER.ALTB	3	C6100333	2101 14:26:53	345129	5372623		
			2226 14:27:55	345211	5371963	0.665	250
TRAVERSE	212	L6121231	2226 14:30:12	344072	5372588		
			2861 14:35:29	335263	5372585	8.809	512
TRAVERSE	215	L6121531	2861 14:36:16	335499	5372396		
			3456 14:41:13	344814	5372388	9.315	490
TRAVERSE	218	L6121831	3456 14:41:44	345796	5372316		
			3501 14:42:07	345573	5372077	0.327	75scrub
TRAVERSE	216	L6121631	3501 14:43:29	348342	5372383		
			4111 14:48:34	355009	5372395	6.667	589
PER.ALTB	3	C6100334	4111 14:49:17	356173	5372433		
			4236 14:50:19	358386	5372156	2.230	250
TRAVERSE	218	L6121832	4236 14:51:45	355143	5372181		
			5756 15:04:25	335586	5372187	19.557	1302
TRAVERSE	220	L6122031	5756 15:06:48	335851	5371989		
			6381 15:12:01	341609	5371992	5.758	551
PER.ALTB	3	C6100335	6381 15:13:28	347499	5372446		
			6506 15:14:30	346652	5375503	3.172	250
TIE.LINE	5	T6100531	6506 15:16:47	343132	5373029		
			7011 15:20:59	343128	5366715	6.314	256
TIE.LINE	6	T6100631	7011 15:22:50	345124	5366814		
			7336 15:25:32	345119	5372511	5.697	311
TIE.LINE	7	T6100731	7336 15:27:27	347125	5373037		
			7826 15:31:32	347126	5366737	6.300	297
TIE.LINE	8	T6100831	7826 15:33:45	349067	5366776		
			8286 15:37:35	349120	5372750	5.974	426
PER.ALTB	3	C6100336	8286 15:38:35	348899	5374554		
			8411 15:39:37	350696	5375989	2.300	250
TIE.LINE	9	T6100931	8411 15:41:02	351131	5373052		
			9161 15:47:17	351135	5364943	8.109	683scrub
PER.ALTB	3	C6100337	9161 15:49:08	349617	5368652		
			9301 15:50:18	348782	5371915	3.368	280
TIE.LINE	9	T6100932	9301 15:52:40	351126	5373067		
			11256 16:08:58	351132	5351865	21.202	1318
PER.ALTB	3	C6100338	11256 16:10:04	353008	5350997		
			11441 16:11:36	355425	5353314	3.348	370
PST.TSTL	4	F6100431	11441 16:16:31	363104	5360947		
			11516 16:17:09	363312	5362231	1.301	10
PST.TSTL	4	F6100432	11516 16:18:15	363315	5362202		
			11601 16:18:57	363096	5360886	1.334	4
PER.ALTB	3	C6100339	11601 16:19:49	363419	5360458		
			11721 16:20:49	363633	5363506	3.056	239
PSTQ.CAL	5	H6100531	11721 16:37:45	363091	5361294		
			11991 16:40:01	363091	5361294	0.000	270

FLIGHT LOG FOR FLIGHT 62 DOY 37 LocalTime 09:17:44 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6200131	0 09:29:44	363091	5361293		
			231 09:31:40	363091	5361294	0.001	231
PER.ALTB	3	C6200331	231 09:43:30	357175	5367139		
			426 09:45:07	356946	5370374	3.243	390
TRAVERSE	204	L6220431	426 09:49:20	354368	5373183		
			606 09:50:49	352778	5373187	1.590	151
TRAVERSE	207	L6220731	606 09:51:08	352464	5373128		
			661 09:51:35	351838	5372986	0.642	82
SCRUB							
TRAVERSE	207	L6220732	661 09:52:51	351701	5373004		
			971 09:55:26	354559	5372993	2.858	171
TRAVERSE	210	L6221031	971 09:56:21	354684	5372775		
			1411 10:00:01	350500	5372788	4.184	370
TRAVERSE	213	L6221331	1411 10:01:33	349437	5372595		
			1951 10:06:03	354857	5372592	5.420	337
PER.ALTB	3	C6200332	1951 10:07:48	357540	5370602		
			2156 10:09:30	361202	5367292	4.936	410
PRE.TSTL	2	D6200231	2156 10:11:39	363309	5362173		
			2226 10:12:14	363096	5360885	1.305	8
PRE.TSTL	2	D6200232	2226 10:13:10	363105	5360955		
			2306 10:13:50	363313	5362237	1.299	22
PER.ALTB	3	C6200333	2306 10:14:10	363774	5362769		
			2431 10:15:12	363901	5362650	0.174	250

FLIGHT LOG FOR FLIGHT 63 DOY 37 LocalTime 17:35:06 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6300132	0 17:35:48	363092	5361294		
			206 17:37:31	363091	5361294	0.001	206
PER.ALTB	3	C6300331	206 17:44:45	363127	5363052		
			341 17:45:52	363040	5365706	2.655	270
PST.TSTL	4	F6300431	341 17:48:16	363318	5362198		
			416 17:48:53	363097	5360887	1.329	6
PST.TSTL	4	F6300432	416 17:49:50	363100	5360967		
			471 17:50:18	363312	5362220	1.271	5
PER.ALTB	3	C6300332	471 17:51:15	363594	5364561		
			601 17:52:20	363477	5367694	3.135	260
TRAVERSE	218	L6321833	601 17:56:58	355147	5372187		
			1766 18:06:41	335574	5372187	19.573	586
TRAVERSE	220	L6322032	1766 18:07:57	335870	5371989		
			2891 18:17:20	355338	5371991	19.468	3616
PER.ALTB	3	C6300333	2891 18:18:23	356915	5370913		
			3021 18:19:28	358840	5368940	2.757	260

FLIGHT LOG FOR FLIGHT 64 DOY 38 LocalTime 09:10:40 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6400131	0 09:13:34	363089	5361292		
			516 09:17:52	363091	5361292	0.002	516
PreQ.Cal	1	A6400132	516 09:19:08	363091	5361293		
			1501 09:27:21	363092	5361294	0.001	985
PER.ALTB	3	C6400331	0 11:30:05	363219	5363414		
			131 11:31:10	362475	5365630	2.338	262
TRAVERSE	218	L6421834	131 11:36:08	355132	5372185		
			1391 11:46:39	335644	5372187	19.488	597
TRAVERSE	220	L6422033	1391 11:48:16	336222	5371986		

			2551	11:57:56	355353	5371990	19.131	1624
TRAVERSE	222	L6422231	2551	11:58:35	355464	5371893		
			2561	11:58:40	355474	5371729	0.164	52
PER.ALTB	3	C6400332	2561	11:58:57	355856	5371200		
			2686	11:59:59	357438	5369501	2.321	250
PER.ALTB	3	C6400333	2686	12:00:50	359181	5367920		
			2801	12:01:47	361408	5366392	2.701	230
PER.ALTB	3	C6400334	2801	12:02:23	362740	5365576		
			2916	12:03:21	363837	5364893	1.292	230
PST.TSTL	4	F6400431	2916	12:04:44	363308	5362190		
			2986	12:05:19	363088	5360857	1.351	328
PST.TSTL	4	F6400432	2986	12:06:22	363097	5360934		
			3056	12:06:57	363314	5362233	1.317	342
PER.ALTB	3	C6400335	3056	12:07:28	363438	5363074		
			3171	12:08:25	364277	5361511	1.774	230

FLIGHT LOG FOR FLIGHT 65 DOY 39 LocalTime 07:43:33 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6500131	0 07:53:36	363091	5361294		
			221 07:55:27	363091	5361294	0.000	221
PER.ALTB	3	C6500331	221 08:11:20	355904	5368764		
			346 08:12:22	353178	5370683	3.334	250
TRAVERSE	218	L6521835	346 08:15:21	355154	5372185		
			1761 08:27:09	335639	5372186	19.515	887
TRAVERSE	220	L6522034	1761 08:28:15	335833	5371998		
			3226 08:40:28	355342	5371993	19.509	851
PER.ALTB	3	C6500332	3226 08:41:27	356020	5372546		
			3351 08:42:29	358089	5372264	2.088	250
TRAVERSE	213	L6521332	3351 08:44:03	354830	5372593		
			3916 08:48:45	349334	5372588	5.496	412
TRAVERSE	210	L6521032	3916 08:50:46	350557	5372796		
			4401 08:54:48	354707	5372795	4.150	379
TRAVERSE	207	L6520733	4401 08:57:05	354525	5372991		
			4721 08:59:45	351652	5372985	2.873	196
TRAVERSE	204	L6520432	4721 09:01:30	352862	5373188		
			4851 09:02:35	354411	5373192	1.549	119
PER.ALTB	3	C6500333	4851 09:04:18	356647	5373059		
			4981 09:05:23	358625	5372314	2.114	260
TRAVERSE	222	L6522232	4981 09:06:55	355437	5371784		
			6336 09:18:13	335956	5371789	19.481	856
TRAVERSE	224	L6522431	6336 09:18:57	336166	5371601		
			7701 09:30:20	355646	5371585	19.480	646
PER.ALTB	3	C6500334	7701 09:31:29	358044	5371717		
			7876 09:32:56	357784	5371876	0.305	350
TRAVERSE	226	L6522631	7876 09:34:11	355770	5371388		
			9196 09:45:11	336303	5371388	19.467	656
TRAVERSE	228	L6522831	9196 09:46:07	336496	5371196		
			10546 09:57:23	355961	5371190	19.465	480
PER.ALTB	3	C6500335	10546 09:58:21	357473	5371583		
			10726 09:59:51	358030	5371673	0.564	360
TRAVERSE	230	L6523031	10726 10:01:13	356068	5370989		
			10731 10:01:15	356013	5370988	0.055	1
PER.ALTB	3	C6500336	10731 10:03:32	357884	5370597		
			10856 10:04:34	357747	5370956	0.384	250
TRAVERSE	230	L6523032	10856 10:05:51	356055	5370989		
			12181 10:16:54	336607	5370984	19.448	529
TRAVERSE	232	L6523231	12181 10:17:57	336830	5370794		
			13456 10:28:35	356284	5370786	19.454	427
PER.ALTB	3	C6500337	13456 10:29:07	357298	5371185		
			13581 10:30:10	357983	5371099	0.690	251
TRAVERSE	234	L6523431	13581 10:32:00	356383	5370580		
			14886 10:42:53	336939	5370589	19.444	570
TRAVERSE	236	L6523631	14886 10:43:55	337176	5370390		
			16131 10:54:18	356587	5370392	19.411	482

PER.ALTB	3	C6500338	16131	10:54:44	357334	5370444		
			16311	10:56:14	360526	5368571	3.701	360
PRE.TSTL	2	D6500231	16311	10:58:44	363306	5362162		
			16371	10:59:14	363085	5360832	1.348	4
PER.ALTB	3	C6500339	16371	10:59:59	363101	5361337		
			16506	11:01:06	363809	5362837	1.659	270

FLIGHT LOG FOR FLIGHT 66 DOY 39 LocalTime 13:05:24 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C6600331	0	13:21:32	363264	5369616		
			121	13:22:32	363437	5372038	2.428	242
TRAVERSE	231	L6623131	121	13:25:31	365208	5370991		
			2536	13:45:39	389040	5370990	23.832	1149
PER.ALTB	3	C6600332	2536	13:46:33	390243	5371100		
			2656	13:47:33	391472	5370095	1.588	240
TRAVERSE	233	L6623331	2656	13:49:40	389003	5370791		
			4766	14:07:15	365048	5370785	23.955	1277
PER.ALTB	3	C6600333	4766	14:07:44	364093	5370640		
			4881	14:08:41	362754	5369969	1.498	230
TRAVERSE	238	L6623831	4881	14:10:56	356698	5370186		
			5961	14:19:56	337310	5370168	19.388	416
TRAVERSE	240	L6624031	5961	14:22:00	337505	5369994		
			6981	14:30:30	356891	5369987	19.386	390
PER.ALTB	3	C6600334	6981	14:30:56	357722	5370011		
			7096	14:31:53	358226	5369716	0.584	231
TRAVERSE	242	L6624231	7096	14:32:57	356995	5369784		
			8126	14:41:32	337633	5369785	19.362	301
TRAVERSE	244	L6624431	8126	14:42:30	337853	5369590		
			9106	14:50:40	357204	5369589	19.351	369
PER.ALTB	3	C6600335	9106	14:51:05	358142	5369633		
			9226	14:52:05	359004	5369281	0.931	240
TRAVERSE	246	L6624631	9226	14:52:57	357312	5369387		
			10261	15:01:35	337963	5369385	19.349	342
PER.ALTB	3	C6600336	10261	15:04:44	337195	5368953		
			10401	15:05:55	336471	5367828	1.338	281
PER.ALTB	3	C6600337	10401	15:07:07	335925	5369110		
			10526	15:08:09	336315	5368231	0.962	250
TRAVERSE	248	L6624831	10526	15:12:20	338205	5369189		
			11581	15:21:08	357560	5369186	19.355	353
PER.ALTB	3	C6600338	11581	15:21:30	358432	5369222		
			11701	15:22:30	360508	5369987	2.212	240
TRAVERSE	235	L6623531	11701	15:24:22	365097	5370590		
			13916	15:42:50	389081	5370587	23.984	1201
PER.ALTB	3	C6600339	13916	15:43:33	389957	5370631		
			14036	15:44:33	390933	5370329	1.022	241

FLIGHT LOG FOR FLIGHT 67 DOY 39 LocalTime 16:31:40 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C6700331	0	16:36:21	363155	5362400		
			126	16:37:24	363966	5364844	2.575	252
TRAVERSE	250	L6725031	126	16:40:16	357623	5368989		
			1151	16:48:49	338263	5368984	19.360	298
TRAVERSE	252	L6725231	1151	16:49:40	338512	5368787		
			1926	16:56:08	354366	5368789	15.854	184
PER.ALTB	3	C6700333	0	17:02:35	347012	5367376		
			126	17:03:38	346506	5366069	1.402	252
TRAVERSE	252	L6725232	126	17:05:40	345965	5368784		
			806	17:11:20	357812	5368793	11.847	205
TRAVERSE	254	L6725431	806	17:12:19	357937	5368587		
			1761	17:20:17	338586	5368584	19.351	262

TRAVERSE	256	L6725631	1761 17:21:10	338877	5368390		
			2791 17:29:45	358152	5368389	19.275	279
PER.ALTB	3	C6700334	2791 17:30:23	359517	5368377		
			2911 17:31:23	360633	5368017	1.173	240
TRAVERSE	258	L6725831	2911 17:32:28	358211	5368183		
			3931 17:40:58	338946	5368189	19.265	289
TRAVERSE	261	L6726131	3931 17:42:25	339193	5367984		
			4946 17:50:53	358463	5367988	19.270	252
TRAVERSE	264	L6726431	4946 17:51:37	358557	5367918		
			4956 17:51:42	358525	5367905	0.035	21
PER.ALTB	3	C6700335	4956 17:52:14	359378	5367993		
			5076 17:53:14	359873	5367828	0.522	240
TRAVERSE	264	L6726432	5076 17:54:06	358551	5367792		
			6101 18:02:38	339298	5367788	19.253	186
TRAVERSE	267	L6726731	6101 18:03:34	339511	5367586		
			7146 18:12:16	358776	5367593	19.265	296
TRAVERSE	270	L6727031	7146 18:13:05	358860	5367384		
			8191 18:21:48	339589	5367383	19.271	145
PER.ALTB	3	C6700336	8191 18:22:20	338426	5367226		
			8311 18:23:20	338271	5366436	0.805	240
TRAVERSE	273	L6727331	8311 18:26:36	339837	5367186		
			9371 18:35:26	359124	5367184	19.287	186
TRAVERSE	276	L6727631	9371 18:36:21	359198	5366989		
			9941 18:41:06	349977	5366989	9.221	73
TRAVERSE	279	L6727931	9941 18:42:00	350125	5366781		
			10476 18:46:27	359439	5366790	9.314	192
PER.ALTB	3	C6700337	10476 18:46:59	360526	5366863		
			10596 18:47:59	361181	5366485	0.756	241
TRAVERSE	282	L6728231	10596 18:48:46	359485	5366590		
			11126 18:53:11	350203	5366584	9.282	106
TRAVERSE	285	L6728531	11126 18:54:12	350352	5366385		
			11646 18:58:32	359737	5366390	9.385	85
TRAVERSE	288	L6728831	11646 18:59:10	359798	5366194		
			12141 19:03:17	350367	5366186	9.431	152
TRAVERSE	291	L6729131	12141 19:04:24	350570	5365979		
			12606 19:08:17	360006	5365990	9.436	155
TRAVERSE	294	L6729431	12606 19:08:29	360330	5365922		
			12656 19:08:53	360067	5365800	0.290	92
PER.ALTB	3	C6700338	12656 19:09:33	361173	5365858		
			12781 19:10:35	363326	5364782	2.407	250
PSTQ.CAL	5	H6700531	0 19:22:20	363091	5361293		
			286 19:24:43	363091	5361293	0.000	286

FLIGHT LOG FOR FLIGHT 68 DOY 41 LocalTime 07:57:36 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6800131	0 08:01:34	363091	5361294		
			281 08:03:54	363090	5361295	0.001	281
PER.ALTB	3	C6800331	281 08:23:47	354442	5370914		
			436 08:25:04	350539	5374056	5.011	310
TIE.LINE	5	T6800532	436 08:28:48	343124	5373021		
			846 08:32:13	343127	5366721	6.300	100
TIE.LINE	6	T6800632	846 08:33:57	345136	5366780		
			1146 08:36:27	345121	5372491	5.711	238
TIE.LINE	7	T6800732	1146 08:38:15	347135	5373031		
			1556 08:41:39	347125	5366732	6.299	172
TIE.LINE	8	T6800832	1556 08:43:53	349118	5366779		
			1936 08:47:03	349121	5372804	6.025	355
PER.ALTB	3	C6800332	1936 08:47:51	349384	5374374		
			2066 08:48:56	350251	5374122	0.903	260
TIE.LINE	9	T6800933	2066 08:50:39	351124	5373078		
			3981 09:06:37	351125	5351848	21.230	1253
PER.ALTB	3	C6800333	3981 09:07:31	352059	5350850		
			4106 09:08:33	352227	5350060	0.808	250
TIE.LINE	10	T6801031	4106 09:09:41	353123	5351924		

			5841	09:24:09	353121	5373462	21.538	1513
PER.ALTB	3	C6800334	5841	09:24:43	353179	5374601		
			5996	09:26:00	355936	5375405	2.872	310
TIE.LINE	11	T6801131	5996	09:28:11	355121	5372056		
			7786	09:43:06	355125	5352836	19.220	849
PER.ALTB	3	C6800335	7786	09:43:47	355325	5351839		
			7911	09:44:49	357385	5351315	2.126	250
TIE.LINE	12	T6801231	7911	09:46:09	357126	5353898		
			8971	09:54:59	357118	5369781	15.883	673
PER.ALTB	3	C6800336	8971	09:55:40	357267	5370093		
			9181	09:57:25	356903	5370819	0.812	421
TRAVERSE	237	L6823731	9181	10:02:40	365046	5370392		
			10871	10:16:45	383035	5370431	17.989	774
PER.ALTB	3	C6800337	0	10:19:47	386870	5369114		
			166	10:21:10	385166	5366258	3.326	332
TRAVERSE	290	L6829031	166	10:23:26	383812	5366199		
			526	10:26:26	380196	5366120	3.617	191
SCRUB								
PER.ALTB	3	C6800338	526	10:27:56	377355	5365149		
			671	10:29:09	374013	5364629	3.382	290
PST.TSTL	4	F6800431	671	10:33:34	363304	5362181		
			761	10:34:19	363094	5360866	1.332	39
PER.ALTB	3	C6800339	761	10:34:44	363583	5360585		
			931	10:36:08	362966	5362564	2.073	338

FLIGHT LOG FOR FLIGHT 69 DOY 42 LocalTime 07:53:35 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A6900131	0 07:56:56	363092	5361294		
			256 07:59:04	363092	5361294	0.000	256
PER.ALTB	3	C6900331	256 08:18:02	361257	5354260		
			376 08:19:02	360173	5351976	2.528	240
TIE.LINE	13	T6901331	376 08:22:10	359122	5354903		
			1071 08:27:58	359123	5367174	12.271	149
PER.ALTB	3	C6900332	1071 08:29:24	357669	5369007		
			1196 08:30:26	356143	5369197	1.538	250
TRAVERSE	216	L6921635	1251 08:39:52	354972	5372387		
			1731 08:43:52	348238	5372388	6.734	278
TRAVERSE	215	L6921532	1731 08:45:13	344763	5372385		
			2126 08:48:31	335464	5372387	9.299	273
PER.ALTB	3	C6900333	2126 08:49:10	333977	5372988		
			2311 08:50:42	333294	5372770	0.717	370
PER.ALTB	3	C6900334	2311 08:51:50	333358	5373730		
			2446 08:52:58	332271	5372754	1.461	270
TRAVERSE	201	L6920132	2446 08:55:19	335015	5373385		
			2791 08:58:11	341301	5373387	6.286	64
TRAVERSE	203	L6920332	2791 08:59:13	341922	5373190		
			3101 09:01:48	334905	5373188	7.017	116
TRAVERSE	206	L6920632	3101 09:02:59	335022	5372986		
			3526 09:06:32	342669	5372989	7.647	121
TRAVERSE	209	L6920932	3526 09:07:50	343345	5372787		
			3891 09:10:52	335104	5372787	8.241	175
PER.ALTB	3	C6900335	3891 09:11:54	333915	5372181		
			4016 09:12:56	333300	5373154	1.151	250
TRAVERSE	212	L6921232	4016 09:14:28	335343	5372589		
			4476 09:18:19	344109	5372592	8.766	190
PER.ALTB	3	C6900336	4476 09:19:59	346559	5372403		
			4646 09:21:23	348398	5372458	1.840	340
PER.ALTB	3	C6900337	4646 09:21:44	349086	5372479		
			4786 09:22:54	350918	5372447	1.832	280
TRAVERSE	215	L6921533	4786 09:25:09	344787	5372384		
			5181 09:28:26	335458	5372385	9.329	218
PER.ALTB	3	C6900338	5181 09:30:47	337141	5369735		
			5306 09:31:49	339081	5368564	2.266	250
TRAVERSE	294	L6929432	5306 09:37:23	350686	5365792		

			6641	09:48:31	371138	5365787	20.452	428
PER.ALTB	3	C6900339	6641	09:48:57	371837	5365860		
			6756	09:49:54	372763	5365840	0.926	230
TRAVERSE	296	L6929631	6756	09:51:14	371000	5365594		
			7936	10:01:04	350738	5365585	20.262	539
TRAVERSE	298	L6929831	7936	10:02:03	350899	5365387		
			9201	10:12:36	370958	5365385	20.059	489
PER.ALTB	3	C6900330	9201	10:13:10	372072	5365473		
			9316	10:14:08	372979	5365472	0.907	230
TRAVERSE	300	L6930031	9316	10:15:21	370811	5365194		
			9381	10:15:53	370223	5365386	0.619	53
TRAVERSE	300	L6930032	9381	10:16:42	370820	5365229		
			9941	10:21:22	362880	5365298	7.940	366
PER.ALTB	3	Q6900331	9941	10:24:19	369798	5366385		
			10066	10:25:22	372283	5366555	2.491	250
TRAVERSE	300	L6930033	10066	10:27:03	370812	5365188		
			10146	10:27:43	370053	5365182	0.759	57
PER.ALTB	3	Q6900332	0	10:29:55	373841	5365754		
			116	10:30:53	374809	5365009	1.221	232
TRAVERSE	300	L6930034	116	10:32:36	370802	5365189		
			1361	10:42:59	350893	5365189	19.909	474
TRAVERSE	302	L6930231	1361	10:43:54	351156	5364991		
			2571	10:53:59	370789	5364996	19.633	407
PER.ALTB	3	Q6900333	2571	10:54:24	371554	5365058		
			2691	10:55:24	373117	5366397	2.058	240
TRAVERSE	292	L6929231	2691	10:57:14	371201	5365998		
			3226	11:01:41	363360	5365987	7.841	209
PST.TSTL	4	F6900431	3226	11:03:39	363310	5362191		
			3301	11:04:16	363091	5360856	1.353	1
PST.TSTL	4	F6900432	3301	11:05:11	363104	5360960		
			3361	11:05:41	363325	5362292	1.350	0
PER.ALTB	3	Q6900334	3361	11:06:12	363449	5363523		
			3496	11:07:19	364081	5364365	1.053	271

FLIGHT LOG FOR FLIGHT 70 DOY 42 LocalTime 12:20:40 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C7000331	0	12:26:47	363222	5367050		
			126	12:27:50	363344	5367360	0.333	252
TRAVERSE	289	L7028931	126	12:30:10	363713	5366190		
			706	12:35:00	371362	5366187	7.649	272
TRAVERSE	304	L7030431	706	12:36:58	370613	5364798		
			1996	12:47:43	351182	5364787	19.431	491
PER.ALTB	3	C7000332	1996	12:48:15	350458	5364754		
			2131	12:49:22	349644	5364650	0.821	270
TRAVERSE	306	L7030631	2131	12:50:37	351371	5364589		
			3476	13:01:50	370559	5364586	19.188	643
TRAVERSE	286	L7028631	3476	13:03:51	371409	5366383		
			3986	13:08:06	363910	5366389	7.499	180
PER.ALTB	3	C7000333	3986	13:08:33	363147	5366387		
			4116	13:09:38	361629	5366966	1.625	260
TRAVERSE	283	L7028331	4116	13:11:29	364071	5366591		
			4646	13:15:54	371555	5366591	7.484	271
TRAVERSE	280	L7028031	4646	13:16:35	371615	5366781		
			5206	13:21:15	364042	5366786	7.573	226
TRAVERSE	277	L7027731	5206	13:22:04	364175	5366993		
			5771	13:26:46	371746	5366991	7.571	195
TRAVERSE	274	L7027431	5771	13:27:38	371746	5367187		
			6316	13:32:11	364181	5367188	7.565	199
TRAVERSE	271	L7027131	6316	13:33:03	364265	5367389		
			6856	13:37:33	371949	5367393	7.684	72
PER.ALTB	3	C7000334	6856	13:38:09	372857	5367807		
			7001	13:39:21	373182	5368282	0.576	290
TRAVERSE	268	L7026831	7001	13:40:48	372006	5367587		
			7546	13:45:20	364274	5367587	7.732	130

TRAVERSE	265	L7026531	7546	13:46:15	364356	5367797		
			8066	13:50:35	372194	5367796	7.838	128
TRAVERSE	262	L7026231	8066	13:51:20	372216	5367975		
			8646	13:56:10	364381	5367990	7.835	133
TRAVERSE	259	L7025931	8646	13:57:01	364466	5368186		
			9201	14:01:38	372374	5368201	7.908	195
TRAVERSE	260	L7026031	0	14:07:03	375369	5368191		
			946	14:14:56	383841	5368185	8.472	583
PER.ALTB	3	C7000335	946	14:15:29	384711	5368208		
			1081	14:16:36	386131	5369724	2.077	270
PER.ALTB	3	C7000336	1091	14:20:39	383566	5370941		
			1226	14:21:46	383850	5370826	0.306	270
TRAVERSE	237	L7023732	1226	14:24:48	380468	5370373		
			1561	14:27:35	383865	5370389	3.397	153
TRAVERSE	239	L7023932	1561	14:28:12	383817	5370177		
			3161	14:41:32	364949	5370188	18.868	815
PER.ALTB	3	C7000337	3161	14:42:15	363917	5369954		
			3311	14:43:30	363911	5370053	0.099	301
TRAVERSE	241	L7024131	3311	14:44:34	364940	5369995		
			3956	14:49:56	367812	5369984	2.872	232
SCRUB								
PER.ALTB	3	C7000338	3956	14:53:16	370841	5367653		
			4086	14:54:21	368445	5366227	2.788	260

FLIGHT LOG FOR FLIGHT 71 DOY 42 LocalTime 15:24:21 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C7100331	0	15:24:53	363310	5362809		
			131	15:25:58	363003	5365709	2.916	262
TRAVERSE	241	L7124132	131	15:27:50	364924	5369946		
			161	15:28:05	364965	5369918	0.050	52
TRAVERSE	241	L7124133	161	15:29:09	364931	5369989		
			1806	15:42:52	383832	5369989	18.901	721
TRAVERSE	243	L7124331	1806	15:43:36	383815	5369783		
			3556	15:58:11	364831	5369784	18.984	568
PER.ALTB	3	C7100332	3556	15:59:59	364395	5369701		
			3691	16:01:07	362877	5369569	1.524	271
TRAVERSE	245	L7124531	3691	16:07:33	364823	5369592		
			3881	16:09:08	366353	5369443	1.537	87
SCRUB								
PER.ALTB	3	C7100333	3881	16:10:51	364557	5367096		
			4011	16:11:56	364096	5364926	2.218	260
PST.TSTL	4	F7100431	4011	16:13:16	363309	5362181		
			4091	16:13:56	363095	5360894	1.305	9
PST.TSTL	4	F7100432	4091	16:14:51	363101	5360931		
			4166	16:15:28	363321	5362257	1.344	34
PER.ALTB	3	C7100334	4166	16:15:52	363842	5362762		
			4291	16:16:54	363484	5362094	0.758	250
PER.ALTB	3	C7100335	4291	16:17:25	363444	5361343		
			4346	16:17:52	363097	5361292	0.351	47
PSTQ.CAL	5	H7100532	4431	16:25:52	363091	5361294		
			4626	16:27:29	363092	5361294	0.001	195

FLIGHT LOG FOR FLIGHT 73 DOY 44 LocalTime 09:00:03 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A7300131	0	09:06:41	363091	5361293		
			221	09:08:32	363091	5361293	0.000	221
PER.ALTB	3	C7300331	221	09:30:06	362685	5367912		
			341	09:31:06	362383	5369476	1.593	240
TRAVERSE	249	L7324931	341	09:33:10	364724	5369192		
			2096	09:47:48	383855	5369188	19.131	968

PER.ALTB	3	C7300332	2096	09:48:41	384774	5369386		
			2221	09:49:43	386823	5369906	2.114	250
TRAVERSE	251	L7325131	2221	09:52:27	383819	5368987		
			2511	09:54:52	381515	5368988	2.304	145

FLIGHT LOG FOR FLIGHT 74 DOY 45 LocalTime 07:38:38 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A7400131	0 07:46:49	363091	5361293		
			276 07:49:08	363091	5361293	0.000	276
PER.ALTB	3	C7400331	276 08:00:07	360462	5366118		
			401 08:01:09	357493	5367570	3.305	250
TIE.LINE	12	T7401232	401 08:03:29	357104	5369711		
			451 08:03:55	357138	5369121	0.591	17
TIE.LINE	12	T7401233	451 08:05:38	357111	5369719		
			1481 08:14:15	357128	5353827	15.892	825
PER.ALTB	3	C7400332	1481 08:15:11	357469	5351921		
			1731 08:17:16	358219	5350537	1.574	500
TIE.LINE	13	T7401332	1731 08:19:49	359119	5354888		
			2706 08:28:01	359120	5367188	12.300	918
PER.ALTB	3	C7400333	2706 08:28:55	359815	5367805		
			2986 08:31:16	363473	5367858	3.658	562
PRE.TSTL	2	D7400231	2986 08:33:40	363308	5362167		
			3051 08:34:13	363104	5360904	1.279	0
PRE.TSTL	2	D7400232	3051 08:35:17	363107	5360949		
			3146 08:36:04	363316	5362272	1.339	17
PER.ALTB	3	C7400334	3146 08:36:49	364271	5361814		
			3266 08:37:49	363798	5359777	2.091	238

FLIGHT LOG FOR FLIGHT 76 DOY 45 LocalTime 15:41:27 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C7600331	0 15:49:52	362907	5362738		
			111 15:50:47	362119	5363970	1.462	222
PST.TSTL	4	F7600431	111 15:51:54	363315	5362190		
			176 15:52:26	363097	5360902	1.306	5
PER.ALTB	3	C7600332	176 16:20:21	363049	5363151		
			431 16:22:28	360916	5367165	4.546	510
TRAVERSE	218	L7621836	431 16:26:35	355147	5372186		
			1586 16:36:13	335564	5372185	19.583	678
PER.ALTB	3	C7600333	1586 16:37:24	335469	5369719		
			1746 16:38:43	338101	5366372	4.258	320
TRAVERSE	220	L7622035	1746 16:44:51	335862	5371991		
			2881 16:54:18	355363	5371991	19.501	513
PER.ALTB	3	C7600334	2881 16:54:59	356553	5371444		
			3181 16:57:29	361579	5366795	6.846	600
PST.TSTL	4	F7600432	3181 16:59:14	363308	5362180		
			3251 16:59:49	363088	5360844	1.354	1
PST.TSTL	4	F7600433	3251 17:00:58	363099	5360934		
			3326 17:01:35	363326	5362284	1.369	1
PER.ALTB	3	C7600335	3326 17:01:52	363538	5362685		
			3441 17:02:49	364755	5360798	2.245	228

FLIGHT LOG FOR FLIGHT 77 DOY 47 LocalTime 09:34:49 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A7700131	0 09:35:06	363092	5361293		
			206 09:36:49	363092	5361293	0.000	206
PER.ALTB	3	C7700331	0 11:31:55	362990	5357060		

			201	11:33:35	361952	5353101	4.093	402
TIE.LINE	12	T7701234	201	11:36:54	357122	5353912		
			1341	11:46:24	357120	5369769	15.857	443
TIE.LINE	13	T7701333	1341	11:49:16	359129	5367112		
			2011	11:54:51	359128	5354851	12.261	145
PER.ALTB	3	C7700332	2011	11:55:43	358920	5355374		
			2191	11:57:13	359000	5359039	3.666	360
TRAVERSE	253	L7725331	2191	12:01:27	364638	5368788		
			3771	12:14:37	383840	5368789	19.202	1191
TRAVERSE	255	L7725531	0	12:18:44	383804	5368586		
			1411	12:30:29	368203	5368527	15.601	936

FLIGHT LOG FOR FLIGHT 78 DOY 47 LocalTime 13:25:38 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C7800331	0	13:33:14	362810	5363309		
			181	13:34:44	361985	5366684	3.474	362
TRAVERSE	263	L7826331	181	13:41:06	375342	5367998		
			591	13:44:31	379380	5368143	4.041	265
TRAVERSE	263	L7826332	0	13:48:41	383819	5367984		
			916	13:56:19	375312	5367987	8.507	593
TRAVERSE	255	L7825532	916	13:56:54	375151	5368473		
			926	13:56:59	375194	5368572	0.108	24
PER.ALTB	3	C7800332	926	13:57:17	375405	5368804		
			1081	13:58:34	376552	5368741	1.149	310
TRAVERSE	255	L7825533	1081	13:59:01	376220	5368587		
			1961	14:06:21	364527	5368585	11.693	553
TRAVERSE	257	L7825731	1961	14:07:24	364527	5368388		
			3586	14:20:57	383875	5368387	19.348	1106
TRAVERSE	266	L7826631	3586	14:22:39	383807	5367788		
			4431	14:29:42	375691	5367784	8.116	484
TRAVERSE	266	L7826632	4431	14:30:34	375314	5367733		
			4586	14:31:52	372989	5367639	2.327	319
PER.ALTB	3	C7800333	4586	14:32:18	372400	5367854		
			4761	14:33:46	370370	5367815	2.030	351
TRAVERSE	266	L7826633	0	14:40:49	383799	5367786		
			866	14:48:02	375301	5367788	8.498	501
PER.ALTB	3	C7800334	866	14:48:40	374740	5367842		
			1016	14:49:55	372668	5367887	2.072	300
TRAVERSE	269	L7826931	1016	14:52:36	375294	5367591		
			1911	15:00:04	383871	5367593	8.577	498
TRAVERSE	272	L7827231	1911	15:00:58	383793	5367388		
			2836	15:08:41	375243	5367388	8.550	338
PER.ALTB	3	C7800335	2836	15:09:10	374894	5367448		
			3006	15:10:35	373202	5367841	1.737	340
TRAVERSE	275	L7827531	3006	15:12:05	375245	5367190		
			3886	15:19:25	383899	5367191	8.654	403
TRAVERSE	278	L7827831	3886	15:20:42	383808	5366983		
			4696	15:27:27	375174	5366987	8.634	334
PER.ALTB	3	C7800336	4696	15:28:22	374040	5367334		
			4871	15:29:49	372235	5367391	1.806	350
TRAVERSE	281	L7828131	4871	15:32:28	375209	5366791		
			5026	15:33:45	376695	5366999	1.500	150
PER.ALTB	3	C7800337	5026	15:38:47	374067	5366989		
			5196	15:40:12	371154	5365212	3.412	340
PER.ALTB	3	C7800338	5196	16:13:00	366220	5365046		
			5316	16:14:00	368835	5366622	3.053	240
TRAVERSE	281	L7828132	5316	16:17:21	375208	5366791		
			6106	16:23:56	383832	5366791	8.624	328
TRAVERSE	284	L7828431	6106	16:24:43	383793	5366590		
			6871	16:31:06	375144	5366592	8.649	261
TRAVERSE	287	L7828731	6871	16:32:02	375155	5366390		
			7561	16:37:47	383865	5366388	8.710	303
PER.ALTB	3	C7800339	7561	16:38:13	384309	5366438		
			7691	16:39:19	385094	5366432	0.785	260

TRAVERSE	290	L7829032	7691 16:40:19	383795 5366191			
			8451 16:46:39	375095 5366188	8.700	211	
TRAVERSE	293	L7829331	8451 16:47:59	375103 5365991			
			9211 16:54:19	383839 5365990	8.736	264	
TRAVERSE	295	L7829531	9211 16:55:23	383805 5365792			
			10016 17:02:06	375065 5365792	8.740	199	
PER.ALTB	3	C7800330	10016 17:03:22	373642 5366684			
			10136 17:04:22	372193 5365840	1.677	240	
TRAVERSE	297	L7829731	10136 17:06:17	375055 5365592			
			10896 17:12:37	383844 5365590	8.789	320	
TRAVERSE	299	L7829931	10896 17:13:38	383806 5365384			
			11776 17:20:58	375017 5365389	8.789	216	
TRAVERSE	301	L7830131	11776 17:22:04	375007 5365208			
			12641 17:29:17	383838 5365192	8.831	382	
PER.ALTB	3	Q7800331	12641 17:29:36	384683 5365216			
			12756 17:30:33	385797 5365019	1.131	230	
TRAVERSE	303	L7830331	12756 17:31:40	383785 5364990			
			13651 17:39:08	374968 5364987	8.817	334	
TRAVERSE	305	L7830531	13651 17:40:06	374959 5364794			
			14446 17:46:44	383848 5364789	8.889	256	
TRAVERSE	307	L7830731	14446 17:47:35	383815 5364590			
			15326 17:54:55	374886 5364591	8.929	244	
TRAVERSE	309	L7830931	15326 17:55:55	374911 5364386			
			15921 18:00:59	380944 5364392	6.033	305	
PER.ALTB	3	Q7800332	15921 18:02:17	383950 5364512			
			16051 18:03:22	386176 5364713	2.235	261	
TRAVERSE	309	L7830932	16051 18:04:55	383810 5364388			
			16901 18:12:00	374877 5364390	8.933	292	
TRAVERSE	311	L7831131	16901 18:12:50	374890 5364187			
			17636 18:18:57	383846 5364194	8.956	254	
PER.ALTB	3	Q7800333	17636 18:20:27	382142 5362929			
			17781 18:21:39	379326 5361991	2.968	291	
PST.TSTL	4	F7800431	17781 18:28:09	363098 5360929			
			17986 18:29:52	363599 5363941	3.053	28	
PER.ALTB	3	Q7800334	17986 18:30:11	364061 5363805			
			18096 18:31:06	364063 5362314	1.491	221	
PSTQ.CAL	5	H7800531	18096 18:37:20	363092 5361293			
			18521 18:40:53	363092 5361293	0.000	425	

FLIGHT LOG FOR FLIGHT 79 DOY 48 LocalTime 09:11:41 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A7900131	0 09:28:09	363092	5361293		
			381 09:31:20	363092	5361293	0.000	381
PER.ALTB	3	C7900331	381 09:58:41	361548	5357444		
			501 09:59:41	360515	5355711	2.018	240
TRAVERSE	408	L7940831	501 10:02:04	357807	5354385		
			981 10:06:04	350649	5354387	7.158	243
PER.ALTB	3	C7900332	981 10:08:25	349715	5356469		
			1121 10:09:35	352538	5357461	2.992	280
PER.ALTB	3	C7900333	1121 10:14:22	366329	5363994		
			1241 10:15:22	368988	5364003	2.659	240
TRAVERSE	313	L7931331	1241 10:17:45	374863	5363993		
			2036 10:24:23	383833	5363990	8.970	447
TRAVERSE	315	L7931531	2036 10:25:30	383815	5363785		
			2921 10:32:53	374819	5363787	8.996	433
TRAVERSE	317	L7931731	2921 10:33:37	374821	5363589		
			3761 10:40:37	383841	5363591	9.020	516
PER.ALTB	3	C7900334	3761 10:40:51	384369	5363615		
			3876 10:41:48	386261	5363828	1.904	230
TRAVERSE	319	L7931931	3876 10:43:39	383805	5363383		
			4671 10:50:17	374740	5363392	9.065	433
TRAVERSE	321	L7932131	4671 10:51:09	374818	5363188		
			5391 10:57:09	383902	5363195	9.084	330
PER.ALTB	3	C7900335	5391 10:57:20	384324	5363196		
			5506 10:58:17	383249	5362995	1.094	231

TRAVERSE	323	L7932331	5506	10:59:06	381239	5362986		
			6051	11:03:38	374778	5362987	6.461	215
TRAVERSE	325	L7932531	6051	11:04:20	374821	5362788		
			6506	11:08:07	381353	5362785	6.532	194
TRAVERSE	327	L7932731	6506	11:08:48	381253	5362588		
			6941	11:12:25	374787	5362589	6.466	115
TRAVERSE	329	L7932931	6941	11:13:07	374874	5362387		
			7336	11:16:25	381311	5362386	6.437	179
TRAVERSE	331	L7933131	7336	11:17:06	381255	5362186		
			7776	11:20:46	374853	5362186	6.402	91
TRAVERSE	333	L7933331	7776	11:21:26	374897	5361991		
			8246	11:25:21	381364	5361990	6.467	155
PER.ALTB	3	C7900336	8246	11:25:43	382031	5362010		
			8371	11:26:45	382984	5361950	0.955	250
TRAVERSE	335	L7933531	8371	11:27:43	381163	5361785		
			8781	11:31:08	374846	5361784	6.317	83
TRAVERSE	337	L7933731	8781	11:31:49	374964	5361601		
			8786	11:31:52	375017	5361627	0.059	24
TRAVERSE	337	L7933732	8786	11:32:59	374954	5361591		
			9186	11:36:19	381330	5361594	6.376	154
TRAVERSE	339	L7933931	9186	11:37:00	381288	5361388		
			9656	11:40:55	374924	5361386	6.364	92
TRAVERSE	341	L7934131	9656	11:41:41	374979	5361193		
			10071	11:45:08	381356	5361194	6.377	188
TRAVERSE	343	L7934331	10071	11:45:57	381146	5360986		
			10471	11:49:17	374965	5360989	6.181	101
TRAVERSE	345	L7934531	10471	11:49:55	375051	5360792		
			10841	11:53:00	381306	5360793	6.255	168
PER.ALTB	3	C7900337	10841	11:53:21	381904	5360827		
			10976	11:54:28	383747	5360587	1.859	270
TRAVERSE	347	L7934731	10976	11:55:44	381283	5360589		
			11441	11:59:36	374990	5360587	6.293	114
TRAVERSE	349	L7934931	11441	12:00:21	375060	5360390		
			11851	12:03:46	381326	5360391	6.266	154
TRAVERSE	351	L7935131	11851	12:04:31	381269	5360183		
			12286	12:08:09	375055	5360189	6.214	163
TRAVERSE	353	L7935331	12286	12:08:59	375119	5359992		
			12701	12:12:26	381391	5359992	6.272	250
TRAVERSE	355	L7935531	12701	12:13:11	381413	5359787		
			13151	12:16:56	375067	5359786	6.346	247
TRAVERSE	357	L7935731	13151	12:17:42	375113	5359583		
			13641	12:21:47	381502	5359587	6.389	291
PER.ALTB	3	C7900338	13641	12:22:23	382598	5360028		
			13781	12:23:33	383156	5359597	0.705	280
TRAVERSE	359	L7935932	13781	12:24:48	381547	5359382		
			14351	12:29:33	375085	5359386	6.462	297
TRAVERSE	361	L7936131	14351	12:30:18	375110	5359186		
			14861	12:34:33	381729	5359188	6.619	358
TRAVERSE	363	L7936331	14861	12:35:19	381666	5358984		
			15386	12:39:42	375091	5358986	6.575	420
PER.ALTB	3	C7900339	15386	12:40:27	373776	5358875		
			15511	12:41:30	371028	5358724	2.752	251
PST.TSTL	4	F7900431	15511	12:44:47	363100	5360964		
			15641	12:45:52	363527	5363490	2.562	3
PER.ALTB	3	C7900330	15641	12:46:11	363977	5363493		
			15771	12:47:16	364142	5360788	2.710	259

FLIGHT LOG FOR FLIGHT 80 DOY 48 LocalTime 13:13:37 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C8000331	0 13:19:28	365367	5359733		
			176 13:20:56	369004	5357523	4.256	352
TRAVERSE	365	L8036531	176 13:23:17	375116	5358786		
			196 13:23:27	375337	5358767	0.222	21
TRAVERSE	365	L8036532	196 13:24:20	375111	5358782		
			801 13:29:22	381769	5358793	6.658	326

TRAVERSE	367	L8036731	801	13:30:20	381811	5358586		
			881	13:31:00	381175	5358592	0.636	50
PER.ALTB	3	C8000332	881	13:33:30	382803	5359364		
			1046	13:34:52	382680	5359687	0.346	330
TRAVERSE	367	L8036732	1046	13:36:43	381813	5358585		
			1676	13:41:58	375084	5358578	6.729	351
TRAVERSE	369	L8036931	1676	13:42:47	375204	5358394		
			2221	13:47:19	381944	5358393	6.740	293
TRAVERSE	371	L8037131	2221	13:48:18	381954	5358201		
			2761	13:52:48	375071	5358182	6.883	271
PER.ALTB	3	C8000333	2761	13:53:27	374217	5358152		
			2926	13:54:49	373498	5357688	0.856	330
TRAVERSE	373	L8037331	2926	13:55:45	375118	5357987		
			3511	14:00:37	382031	5357988	6.913	389
TRAVERSE	375	L8037531	3511	14:01:22	382085	5357773		
			4061	14:05:57	375090	5357784	6.995	319
TRAVERSE	377	L8037731	4061	14:06:35	375109	5357600		
			4656	14:11:33	382164	5357592	7.055	459
TRAVERSE	379	L8037931	4656	14:12:44	382217	5357393		
			5221	14:17:27	375086	5357386	7.131	398
PER.ALTB	3	C8000334	5221	14:18:00	374139	5357467		
			5401	14:19:30	373682	5357283	0.493	360
TRAVERSE	381	L8038131	5401	14:20:48	375257	5357185		
			5461	14:21:18	376104	5357134	0.849	40
TRAVERSE	381	L8038132	5461	14:22:45	375236	5357197		
			5526	14:23:17	375835	5357202	0.599	35
TRAVERSE	381	L8038133	5526	14:27:07	382208	5357190		
			6176	14:32:32	375090	5357186	7.118	297
PER.ALTB	3	C8000335	6176	14:35:00	375846	5357056		
			6361	14:36:32	380312	5357487	4.487	370
TRAVERSE	383	L8038331	6361	14:38:33	382208	5356987		
			6986	14:43:46	375094	5356983	7.114	310
TRAVERSE	385	L8038531	6986	14:44:59	375134	5356797		
			7651	14:50:32	382202	5356793	7.068	364
TRAVERSE	387	L8038731	7651	14:51:49	382149	5356587		
			8276	14:57:02	375056	5356591	7.093	182
PER.ALTB	3	C8000336	8276	14:57:27	374453	5356583		
			8456	14:58:57	373769	5356624	0.685	360
TRAVERSE	389	L8038931	8456	14:59:58	375117	5356392		
			9071	15:05:05	382130	5356390	7.013	385
TRAVERSE	391	L8039131	9071	15:06:04	382073	5356196		
			9676	15:11:06	375097	5356181	6.976	191
TRAVERSE	393	L8039331	9676	15:11:44	375116	5355992		
			10306	15:16:59	382087	5355988	6.971	392
TRAVERSE	395	L8039531	10306	15:18:13	382018	5355797		
			10991	15:23:55	375087	5355784	6.931	366
PER.ALTB	3	C8000337	10991	15:24:34	374243	5355851		
			11386	15:27:51	373640	5355725	0.616	790
TRAVERSE	397	L8039731	11386	15:35:16	381989	5355595		
			12041	15:40:44	375069	5355580	6.920	252
TRAVERSE	399	L8039931	12041	15:41:20	375118	5355404		
			12651	15:46:24	381989	5355391	6.871	235
TRAVERSE	401	L8040131	12651	15:47:26	381915	5355189		
			12711	15:47:56	381480	5355235	0.437	24
PER.ALTB	3	C8000338	12711	15:50:34	383077	5355577		
			13096	15:53:46	383802	5355590	0.725	771
TRAVERSE	401	L8040132	13096	15:55:30	381918	5355190		
			13726	16:00:46	375089	5355184	6.829	187
TRAVERSE	403	L8040331	13726	16:01:23	375113	5354962		
			14336	16:06:28	381908	5354991	6.795	307
TRAVERSE	405	L8040531	14336	16:07:56	381856	5354794		
			14956	16:13:06	375088	5354782	6.768	222
PER.ALTB	3	C8000339	14956	16:13:38	374281	5355055		
			15151	16:15:16	370644	5357021	4.134	391
PST.TSTL	4	F8000431	15151	16:19:00	363089	5360865		
			15346	16:20:38	363637	5364146	3.326	94
PSTQ.CAL	5	H8000531	15346	16:20:59	364189	5364340		
			15526	16:22:29	364309	5360739	3.603	359

FLIGHT LOG FOR FLIGHT 81 DOY 48 LocalTime 16:33:06 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C8100331	0 16:43:47	365770	5359089		
			206 16:45:30	370680	5355871	5.871	412
TRAVERSE	407	L8140731	206 16:48:48	375129	5354591		
			991 16:55:21	381840	5354590	6.711	379
TRAVERSE	409	L8140931	991 16:56:32	381776	5354386		
			1691 17:02:22	374969	5354390	6.807	317
TRAVERSE	411	L8141131	1691 17:03:04	374861	5354178		
			2421 17:09:09	381786	5354196	6.925	260
TRAVERSE	413	L8141331	2421 17:10:04	381710	5353987		
			3131 17:15:59	374724	5353993	6.986	265
PER.ALTB	3	C8100332	3131 17:16:25	374080	5354044		
			3301 17:17:50	373477	5353368	0.906	340
TRAVERSE	415	L8141531	3301 17:18:46	374641	5353782		
			3921 17:23:56	381709	5353797	7.068	258
TRAVERSE	417	L8141731	3921 17:25:00	381630	5353586		
			4556 17:30:18	374455	5353591	7.175	115
TRAVERSE	419	L8141931	4556 17:30:49	374387	5353388		
			5211 17:36:16	381652	5353396	7.265	223
TRAVERSE	421	L8142131	5211 17:37:11	381575	5353187		
			5726 17:41:28	375770	5353182	5.805	160
PER.ALTB	3	C8100333	5726 17:43:57	372201	5353540		
			6111 17:47:09	372541	5353472	0.347	770
TRAVERSE	423	L8142331	6111 17:48:23	374171	5352995		
			6676 17:53:05	381572	5352993	7.401	231
TRAVERSE	425	L8142531	6676 17:53:55	381500	5352791		
			7061 17:57:08	377256	5352792	4.244	149
PER.ALTB	3	C8100334	7061 17:58:47	374113	5353719		
			7246 18:00:19	370832	5355574	3.769	370
PSTQ.CAL	5	H8100531	7246 18:12:13	363090	5361296		
			7471 18:14:06	363089	5361296	0.001	225

FLIGHT LOG FOR FLIGHT 82 DOY 55 LocalTime 11:29:53 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
TRAVERSE	421	L8242132	0 11:36:59	363942	5361979		
			321 11:39:40	364625	5358519	3.527	644
scrub							
PER.ALTB	3	C8200331	321 11:40:17	363525	5359913		
			496 11:41:44	364444	5361254	1.626	346
TRAVERSE	421	L8242133	496 11:46:45	374282	5353189		
			1131 11:52:03	381610	5353192	7.328	235
TRAVERSE	425	L8242535	1131 11:53:11	381507	5352789		
			1681 11:57:46	374008	5352786	7.499	328
TRAVERSE	427	L8242732	1681 11:58:43	373927	5352592		
			2381 12:04:33	381505	5352583	7.578	449
TRAVERSE	429	L8242932	2381 12:05:44	381432	5352393		
			2966 12:10:36	373769	5352386	7.663	350
PER.ALTB	3	C8200332	2966 12:11:10	372730	5352343		
			3126 12:12:30	370269	5352365	2.461	320
TRAVERSE	431	L8243131	3126 12:14:24	373685	5352188		
			3886 12:20:44	381444	5352189	7.759	530
TRAVERSE	433	L8243331	3886 12:21:37	381373	5351990		
			4586 12:27:27	373524	5351988	7.849	470
PER.ALTB	3	C8200333	4586 12:28:17	371877	5352352		
			4776 12:29:52	371054	5352898	0.988	381
PRE.TSTL	3	B8200331	4776 12:32:38	362994	5360322		
			4941 12:34:00	363523	5363479	3.201	5
PER.ALTB	3	C8200334	4941 12:34:34	364244	5363275		

PreQ.Cal	1	A8200131	5116	12:36:01	363977	5360880	2.410	347
			5116	12:40:48	363091	5361294		
			5321	12:42:30	363092	5361294	0.001	205

FLIGHT LOG FOR FLIGHT 83 DOY 55 LocalTime 14:20:01 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C8300331	0 14:27:01	364111	5361660		
			156 14:28:19	365905	5358986	3.220	310
TRAVERSE	435	L8343531	0 14:36:13	373349	5351591		
			821 14:43:04	381361	5351590	8.012	441
PER.ALTB	3	C8300332	821 14:43:47	382398	5351640		
			1001 14:45:17	385055	5351597	2.657	360
TRAVERSE	437	L8343731	1001 14:47:22	381301	5351182		
			1686 14:53:04	373020	5351186	8.281	459
PER.ALTB	3	C8300333	1686 14:53:58	371578	5351616		
			1866 14:55:28	371416	5353489	1.880	360
PST.TSTL	4	F8300431	1866 15:02:53	362990	5360358		
			2041 15:04:20	363545	5363603	3.292	39
PER.ALTB	3	C8300334	2041 15:04:55	364057	5363232		
			2221 15:06:25	363282	5359850	3.470	358

FLIGHT LOG FOR FLIGHT 84 DOY 58 LocalTime 15:00:53 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A8400131	0 15:53:45	363092	5361294		
			286 15:56:08	363091	5361294	0.001	286
PER.ALTB	3	C8400331	0 16:12:26	362755	5363961		
			121 16:13:26	362187	5366307	2.414	242
PST.TSTL	4	F8400431	121 16:15:04	363613	5364065		
			351 16:16:59	363059	5360672	3.438	42
PER.ALTB	3	C8400332	351 16:18:13	365360	5358722		
			471 16:19:13	367912	5357417	2.866	240
TIE.LINE	20	T8402033	471 16:22:37	373128	5351274		
			1316 16:29:40	373125	5341130	10.144	290
PER.ALTB	3	C8400333	1316 16:30:23	372597	5340776		
			1436 16:31:23	371303	5342765	2.373	240
PRE.TSTL	2	D8400231	1436 16:32:40	369050	5345244		
			1751 16:35:17	365773	5350417	6.124	544
PST.TSTL	4	F8400432	1751 16:39:29	363104	5360970		
			1871 16:40:29	363524	5363480	2.545	4
PER.ALTB	3	C8400334	1871 16:40:53	364018	5363719		
			1986 16:41:51	364338	5361745	2.000	230
PSTQ.CAL	5	H8400531	0 16:56:59	363091	5361293		
			206 16:58:42	363091	5361294	0.001	206

FLIGHT LOG FOR FLIGHT 85 DOY 61 LocalTime 10:35:08 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A8500121	0 10:39:28	363091	5361293		
			206 10:41:11	363091	5361294	0.001	206
PER.ALTB	3	C8500321	0 11:17:05	364446	5369311		
			166 11:18:28	365675	5373535	4.399	332
TRAVERSE	83	L8508322	166 11:28:11	379101	5400862		
			171 11:28:14	379156	5400860	0.055	12
TRAVERSE	83	L8508323	171 11:29:14	379134	5400780		
			2046 11:44:52	354453	5400779	24.681	1517
PER.ALTB	3	C8500322	2046 11:45:30	353511	5400719		
			2216 11:46:55	350981	5400447	2.545	340

TRAVERSE	84	L8508421	2216	11:50:16	357505	5400584		
			3766	12:03:11	379192	5400587	21.687	1165
TRAVERSE	86	L8508621	3766	12:06:34	378994	5400382		
			4326	12:11:14	371526	5400382	7.468	536
PER.ALTB	3	C8500323	4326	12:11:42	370766	5400389		
			4501	12:13:09	369384	5400017	1.431	350
TRAVERSE	88	L8508821	4501	12:14:58	371550	5400183		
			4551	12:15:23	372207	5400180	0.657	49
		scrub						
TRAVERSE	88	L8508822	4551	12:17:29	371545	5400179		
			5056	12:21:42	378970	5400186	7.425	489
TRAVERSE	90	L8509021	5056	12:22:42	378872	5399979		
			5576	12:27:02	371469	5399978	7.403	514
PER.ALTB	3	C8500324	5576	12:28:38	370488	5399878		
			5746	12:30:03	368176	5399753	2.315	340
TRAVERSE	92	L8509221	5746	12:32:13	371553	5399780		
			6256	12:36:28	378843	5399786	7.290	510
TRAVERSE	94	L8509421	6256	12:37:23	378724	5399576		
			6776	12:41:43	371489	5399580	7.235	518
TRAVERSE	96	L8509621	6776	12:42:32	371561	5399380		
			7286	12:46:47	378734	5399377	7.173	507
PER.ALTB	3	C8500325	7286	12:47:21	379364	5399376		
			7471	12:48:53	380545	5398654	1.384	370
TRAVERSE	98	L8509821	7471	12:50:06	378604	5399186		
			8026	12:54:43	371477	5399181	7.127	553
TRAVERSE	100	L8510021	8026	12:55:43	371579	5398984		
			8586	13:00:23	378614	5398986	7.035	556
TRAVERSE	102	L8510221	8586	13:01:19	378479	5398780		
			9146	13:05:59	371519	5398780	6.960	554
PER.ALTB	3	C8500326	9146	13:06:28	370586	5398710		
			9316	13:07:53	369051	5398292	1.591	340
TRAVERSE	103	L8510321	9316	13:09:02	371488	5398580		
			9876	13:13:43	378478	5398580	6.990	548
TRAVERSE	104	L8510421	9876	13:14:21	378349	5398384		
			10406	13:18:46	371388	5398382	6.961	526
TRAVERSE	105	L8510521	10406	13:19:39	371382	5398183		
			11011	13:24:41	378329	5398186	6.947	593
PER.ALTB	3	C8500327	11011	13:25:09	379149	5398214		
			11181	13:26:34	379368	5397703	0.556	340
TRAVERSE	106	L8510621	11181	13:27:44	378222	5397983		
			11726	13:32:17	371299	5397982	6.923	531
TRAVERSE	107	L8510721	11726	13:36:35	371396	5397738		
			11736	13:36:40	371360	5397670	0.077	47
		scrub						
TRAVERSE	108	L8510821	11736	13:39:06	371368	5397648		
			11821	13:39:48	371093	5396443	1.236	192
		scrub						
PER.ALTB	3	C8500328	11821	13:41:00	370572	5394262		
			12001	13:42:30	369723	5390867	3.500	360
PER.ALTB	3	C8500329	12001	13:50:16	365383	5372347		
			12161	13:51:36	364453	5369344	3.144	320
PRE.TSTL	2	D8500221	12161	13:53:58	363590	5363851		
			12371	13:55:43	363033	5360523	3.374	41
PER.ALTB	3	C8500320	12371	13:56:25	364125	5359838		
			12551	13:57:55	365364	5361944	2.443	358

FLIGHT LOG FOR FLIGHT 86 DOY 61 LocalTime 16:26:59 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PST.TSTL	4	F8600431	0 17:24:26	363187	5361450		
			51 17:24:51	363166	5360743	0.707	61
PER.ALTB	3	C8600331	51 17:25:57	365626	5359460		
			201 17:27:12	368580	5357056	3.809	300
TRAVERSE	435	L8643532	201 17:27:44	369386	5355604		
			486 17:30:06	372324	5351586	4.978	545

TRAVERSE	435	L8643533	486	17:30:37	373341	5351589		
			1326	17:37:37	379262	5351590	5.921	316
TRAVERSE	436	L8643631	1326	17:38:32	378840	5351391		
			2011	17:44:15	373170	5351391	5.670	307
PER.ALTB	3	C8600332	2011	17:45:21	371179	5352515		
			2416	17:48:44	365104	5360042	9.673	811
PSTQ.CAL	5	H8600531	2416	17:57:56	363091	5361293		
			2631	17:59:43	363091	5361293	0.000	215

FLIGHT LOG FOR FLIGHT 87 DOY 62 LocalTime 17:05:24 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C8700331	0	17:26:47	363613	5362845		
			231	17:28:42	359250	5365236	4.975	462
TIE.LINE	1	T8700132	231	17:28:52	358907	5365482		
			676	17:32:34	352616	5372575	9.481	890
TIE.LINE	15	T8701532	676	17:40:27	363123	5365940		
			1266	17:45:22	363121	5365850	9.090	69
PER.ALTB	3	C8700332	1266	17:46:15	363586	5356664		
			1441	17:47:42	364145	5357121	0.722	350
PST.TSTL	4	F8700431	1441	17:49:19	362986	5360281		
			1611	17:50:44	363554	5363660	3.426	43
PSTQ.CAL	5	H8700531	1611	17:51:13	363999	5363523		
			1766	17:52:31	363564	5361856	1.723	311

FLIGHT LOG FOR FLIGHT 88 DOY 63 LocalTime 09:20:22 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A8800131	0	09:33:59	363091	5361294		
			91	09:34:45	363091	5361294	0.000	91
scrub								
PreQ.Cal	1	A8800132	91	09:34:59	363091	5361294		
			431	09:37:49	363091	5361294	0.000	340
PER.ALTB	3	C8800331	431	09:57:22	364265	5360358		
			616	09:58:54	366001	5357319	3.500	370
TRAVERSE	436	L8843632	616	10:03:27	373214	5351388		
			1486	10:10:42	381317	5351395	8.103	528
TRAVERSE	438	L8843831	1486	10:13:30	381425	5350981		
			2246	10:19:50	372863	5350989	8.562	476
PER.ALTB	3	C8800332	2246	10:20:37	371511	5350986		
			2411	10:21:59	371079	5351099	0.447	330
TRAVERSE	439	L8843931	2411	10:23:23	372845	5350790		
			3261	10:30:28	381555	5350791	8.710	277
TRAVERSE	440	L8844031	3261	10:31:18	381635	5350583		
			4031	10:37:43	372666	5350588	8.969	250
TRAVERSE	441	L8844131	4031	10:38:28	372594	5350386		
			5626	10:51:46	389436	5350384	16.842	807
PER.ALTB	3	C8800333	5626	10:52:30	390864	5350316		
			5796	10:53:55	392945	5349931	2.116	340
TRAVERSE	442	L8844231	5796	10:55:55	389418	5350186		
			7351	11:08:53	372547	5350187	16.871	564
PER.ALTB	3	C8800334	7351	11:11:34	370158	5350456		
			7546	11:13:11	369626	5350024	0.685	390
TRAVERSE	443	L8844331	7546	11:14:51	372590	5349985		
			9041	11:27:19	389445	5349991	16.855	575
TRAVERSE	444	L8844431	9041	11:28:35	389422	5349788		
			9071	11:28:50	389234	5349782	0.188	19
scrub								
PER.ALTB	3	C8800335	0	11:32:58	392159	5350554		
			181	11:34:28	392149	5353805	3.251	362
TRAVERSE	444	L8844432	181	11:38:20	389413	5349784		

			1771	11:51:36	372569	5349786	16.844	500
PER.ALTB	3	C8800336	1771	11:52:34	371051	5350515		
			1986	11:54:21	369530	5351561	1.846	430
_ ZDAS lock up								
PRE.TSTL	2	D8800231	0	11:57:59	362984	5360247		
			171	11:59:24	363523	5363464	3.262	1
PER.ALTB	3	C8800337	171	11:59:59	363897	5363064		
			341	12:01:24	364105	5359587	3.483	338

FLIGHT LOG FOR FLIGHT 89 DOY 63 LocalTime 13:01:43 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C8900331	0 13:24:33	366378	5356138		
			121 13:25:33	367809	5354152	2.448	242
TRAVERSE	434	L8943431	121 13:28:41	373515	5351787		
			606 13:32:44	376348	5351785	2.833	101
scrub							
TRAVERSE	434	L8943432	606 13:35:57	381334	5351789		
			1446 13:42:57	373401	5351785	7.933	404
PER.ALTB	3	C8900332	1446 13:43:36	372155	5351711		
			1566 13:44:36	370556	5350745	1.868	241
TRAVERSE	445	L8944531	1566 13:46:22	372612	5349591		
			3126 13:59:22	389435	5349593	16.823	557
TRAVERSE	446	L8944631	3126 14:00:29	389417	5349383		
			4896 14:15:14	372549	5349380	16.868	562
PER.ALTB	3	C8900333	4896 14:15:45	371626	5349453		
			5021 14:16:48	369566	5350040	2.142	250
TRAVERSE	447	L8944731	5021 14:19:05	372602	5349187		
			6551 14:31:50	389433	5349185	16.831	527
PER.ALTB	3	C8900334	6551 14:33:03	390792	5349310		
			6671 14:34:03	392285	5349590	1.519	240
TRAVERSE	448	L8944831	6671 14:36:15	389407	5348988		
			8126 14:48:23	372550	5348984	16.857	458
TRAVERSE	449	L8944931	8126 14:49:13	372600	5348789		
			9576 15:01:18	389480	5348789	16.880	573
PER.ALTB	3	C8900335	9576 15:02:29	390895	5349005		
			9696 15:03:29	393057	5349066	2.163	241
TRAVERSE	450	L8945031	9696 15:06:12	389413	5348586		
			9726 15:06:27	389295	5348407	0.214	51
scrub							
TRAVERSE	451	L8945131	9726 15:06:34	389392	5348334		
			9731 15:06:36	389427	5348340	0.036	12
scrub							
PER.ALTB	3	C8900336	9731 15:07:51	390949	5349474		
			9856 15:08:53	393046	5349180	2.118	250
TRAVERSE	450	L8945032	9856 15:11:16	389399	5348587		
			11336 15:23:36	372543	5348582	16.856	628
PER.ALTB	3	C8900337	11336 15:24:07	371834	5348654		
			11456 15:25:06	370046	5349178	1.863	240
TRAVERSE	451	L8945132	11456 15:26:36	372613	5348390		
			12991 15:39:24	389461	5348388	16.848	526
TRAVERSE	452	L8945231	12991 15:40:13	389407	5348184		
			14441 15:52:18	372576	5348184	16.831	480
PER.ALTB	3	C8900338	14441 15:53:18	371260	5349211		
			14566 15:54:21	369686	5351345	2.652	251

FLIGHT LOG FOR FLIGHT 90 DOY 63 LocalTime 15:56:42 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9000331	0 16:28:42	365398	5356095		
			151 16:29:57	366833	5352947	3.460	302
TRAVERSE	453	L9045331	151 16:33:24	372584	5347987		
			1771 16:46:54	389444	5347986	16.860	332
TRAVERSE	454	L9045431	1771 16:47:37	389420	5347788		
			2596 16:54:30	382071	5347787	7.349	340
Scrub Humm drop out							
PER.ALTB	3	C9000332	0 16:59:08	370316	5347951		
			121 17:00:08	371713	5347863	1.400	242
TRAVERSE	454	L9045432	121 17:03:05	372588	5347787		
			1681 17:16:05	389463	5347789	16.875	492
TRAVERSE	455	L9045531	1681 17:17:07	389410	5347591		
			3536 17:32:35	372563	5347588	16.847	1001
PER.ALTB	3	C9000333	3536 17:33:25	371364	5347600		
			3656 17:34:25	369502	5347886	1.884	240
TRAVERSE	456	L9045631	3656 17:36:14	372605	5347387		
			5316 17:50:04	389434	5347388	16.829	469
TRAVERSE	457	L9045731	5316 17:51:00	389419	5347184		
			6906 18:04:15	372546	5347183	16.873	636
PER.ALTB	3	C9000334	6906 18:05:02	371388	5347297		
			7031 18:06:04	369969	5347781	1.499	250
TRAVERSE	458	L9045831	7031 18:07:54	372592	5346993		
			8311 18:18:34	389438	5346991	16.846	558
PER.ALTB	3	C9000335	8311 18:19:06	390387	5347107		
			8436 18:20:08	391779	5348670	2.093	250
TIE.LINE	37	T9003731	8436 18:23:59	389124	5350588		
			8786 18:26:54	389125	5345126	5.462	900
?mag							
TIE.LINE	34	T9003431	8786 18:29:02	387124	5345202		
			9151 18:32:04	387125	5350626	5.424	138
?mag							
PER.ALTB	3	C9000336	9151 18:32:33	387439	5351637		
			9276 18:33:35	389872	5352184	2.494	250
PER.ALTB	3	C9000337	9276 18:42:09	367450	5359939		
			9381 18:43:01	365074	5360587	2.463	210
scrub							

FLIGHT LOG FOR FLIGHT 91 DOY 64 LocalTime 08:27:10 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A9100131	0 08:34:56	363092	5361293		
			271 08:37:12	363092	5361293	0.000	271
PER.ALTB	3	C9100331	271 08:59:10	366301	5365830		
			391 09:00:10	368244	5367022	2.279	240
TIE.LINE	21	T9102131	391 09:05:53	373121	5367915		
			1056 09:11:26	373124	5379124	11.209	373
PER.ALTB	3	C9100332	1056 09:12:15	373817	5380545		
			1176 09:13:16	375230	5379231	1.930	240
TIE.LINE	22	T9102232	1176 09:15:33	375527	5379085		
			4001 09:39:06	375521	5341132	37.953	1334
PER.ALTB	3	C9100333	4001 09:39:46	375697	5339956		
			4116 09:40:44	377121	5338610	1.959	231
TIE.LINE	24	T9102432	4116 09:42:48	377121	5341186		
			6451 10:02:16	377126	5375271	34.085	816
PER.ALTB	3	C9100334	6451 10:04:35	380952	5374365		
			6571 10:05:35	381277	5373944	0.532	240
TIE.LINE	27	T9102732	6571 10:08:33	381121	5368758		
			7271 10:14:23	381121	5356815	11.943	401
PER.ALTB	3	C9100335	7271 10:15:33	380363	5357987		

			7406	10:16:40	379962	5360110	2.161	270
TIE.LINE	25	T9102532	7406	10:18:14	379114	5362926		
			8956	10:31:09	379120	5338729	24.197	777
PER.ALTB	3	C9100336	8956	10:33:45	382315	5339339		
			8956	10:34:52	383799	5340349	1.795	134
?check humm								
PER.ALTB	3	C9100337	0	10:45:56	385962	5338215		
			131	10:47:01	387940	5339188	2.204	262
TIE.LINE	37	T9103732	131	10:50:23	389122	5345197		
			546	10:53:50	389120	5350646	5.449	47
TIE.LINE	34	T9103432	546	10:56:06	387131	5350580		
			956	10:59:31	387124	5345099	5.481	123
TIE.LINE	32	T9103231	956	11:01:33	385131	5345188		
			1441	11:05:36	385120	5350620	5.432	190
PER.ALTB	3	C9100338	1441	11:06:23	384415	5351613		
			1551	11:07:18	382833	5352499	1.813	221
TRAVERSE	433	L9143332	1551	11:08:58	381362	5351985		
			2236	11:14:41	373532	5351987	7.830	307
PER.ALTB	3	C9100339	2236	11:15:51	371824	5350663		
			2356	11:16:51	370837	5348668	2.226	240
TRAVERSE	459	L9145931	2356	11:18:52	372593	5346791		
			3656	11:29:42	389462	5346793	16.869	340
TRAVERSE	460	L9146031	3656	11:30:28	389408	5346582		
			4951	11:41:16	372575	5346588	16.833	230
PER.ALTB	3	C9100330	4951	11:42:16	371539	5346734		
			5096	11:43:29	370926	5347459	0.949	291
PST.TSTL	4	F9100431	0	11:50:35	363098	5360944		
			146	11:51:48	363546	5363617	2.710	6
PER.ALTB	3	Q9100331	146	11:52:14	364060	5363834		
			266	11:53:14	364176	5361544	2.293	240

FLIGHT LOG FOR FLIGHT 92 DOY 64 LocalTime 16:28:51 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9200331	0	16:36:28	364003	5359170	
			481	16:40:28	368577	5349040	11.115
TRAVERSE	461	L9246131	481	16:43:58	372590	5346390	
			1876	16:55:36	389487	5346393	16.897
PER.ALTB	3	C9200332	1876	16:56:44	391314	5347564	
			2031	16:58:01	391219	5349511	1.949
TRAVERSE	433	L9243333	2031	17:02:39	381364	5351985	
			2826	17:09:17	373497	5351986	7.867
PER.ALTB	3	C9200333	2826	17:10:26	371562	5352397	
			3026	17:12:06	368871	5355379	4.017
PSTQ.CAL	5	H9200531	0	17:36:47	363092	5361294	
			211	17:38:32	363092	5361293	0.001

FLIGHT LOG FOR FLIGHT 93 DOY 65 LocalTime 10:12:08 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9300331	0	10:52:10	360324	5361646	
			2206	11:10:34	363068	5361285	2.768

FLIGHT LOG FOR FLIGHT 95 DOY 82 LocalTime 15:27:36 Area 6 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9500361	0 15:27:49	341289	5381243		
			136 15:28:57	342390	5384263	3.214	272
TRAVERSE	35	L9503562	136 15:35:32	351004	5397586		
			731 15:40:30	354769	5397582	3.765	384
TRAVERSE	34	L9503461	731 15:41:30	354719	5397787		
			1186 15:45:18	350981	5397775	3.738	316
TRAVERSE	33	L9503361	1186 15:46:42	351005	5397987		
			1746 15:51:22	354740	5397986	3.735	461
PER.ALTB	3	C9500362	1746 15:52:14	355809	5397955		
			1866 15:53:14	356303	5398159	0.534	240
TRAVERSE	32	L9503261	1866 15:54:23	354725	5398179		
			2306 15:58:03	350981	5398176	3.744	378
TRAVERSE	31	L9503161	2306 15:59:13	351002	5398382		
			2831 16:03:36	354750	5398386	3.748	445
TRAVERSE	30	L9503061	2831 16:04:28	354714	5398580		
			3201 16:07:33	350986	5398576	3.728	321
TRAVERSE	29	L9502961	3201 16:08:51	350989	5398781		
			3666 16:12:43	354788	5398785	3.799	406
TRAVERSE	28	L9502861	3666 16:13:29	354718	5398979		
			4036 16:16:34	350971	5398986	3.747	242
PER.ALTB	3	C9500363	4036 16:17:21	350114	5398849		
			4156 16:18:21	348488	5398518	1.659	240
TRAVERSE	27	L9502761	4156 16:20:37	350993	5399182		
			4736 16:25:27	354738	5399186	3.745	539
TRAVERSE	26	L9502661	4736 16:26:32	354713	5399382		
			5156 16:30:02	350980	5399384	3.733	354
TRAVERSE	25	L9502561	5156 16:31:55	350992	5399583		
			5621 16:35:47	354745	5399585	3.753	457
TRAVERSE	24	L9502461	5621 16:36:40	354721	5399778		
			5971 16:39:35	350970	5399782	3.751	287
TRAVERSE	23	L9502361	5971 16:40:49	350995	5399984		
			6471 16:45:00	354748	5399983	3.753	448
PER.ALTB	3	C9500364	6471 16:45:25	355387	5399977		
			6601 16:46:29	356614	5400014	1.228	260
TRAVERSE	22	L9502261	6601 16:47:43	354707	5400182		
			6761 16:49:07	352231	5400174	2.476	163
scrub							
PER.ALTB	3	C9500365	6761 16:50:36	349470	5400054		
			6886 16:51:38	348943	5400934	1.026	250
TRAVERSE	22	L9502262	6886 16:53:16	351004	5400182		
			7351 16:57:08	354745	5400187	3.741	370
TRAVERSE	21	L9502161	7351 16:58:00	354711	5400378		
			7701 17:00:55	350966	5400384	3.745	272
TRAVERSE	20	L9502061	7701 17:01:37	351009	5400586		
			8086 17:04:49	354766	5400584	3.757	352
TRAVERSE	19	L9501961	8086 17:05:35	354716	5400779		
			8396 17:08:10	350968	5400782	3.748	299
TRAVERSE	18	L9501861	8396 17:08:49	350996	5400984		
			8846 17:12:34	354750	5400984	3.754	413
TRAVERSE	17	L9501761	8846 17:13:22	354721	5401180		
			9286 17:17:02	350971	5401182	3.750	380
PER.ALTB	3	C9500366	9286 17:17:24	350389	5401174		
			9416 17:18:29	348533	5401473	1.880	260
TRAVERSE	16	L9501661	9416 17:20:02	351010	5401383		
			9941 17:24:25	354743	5401386	3.733	493
TRAVERSE	15	L9501561	9941 17:25:12	354716	5401580		
			10491 17:29:47	350977	5401581	3.739	502
PER.ALTB	3	C9500367	10491 17:30:32	350309	5400718		
			11521 17:39:07	355824	5376605	24.736	2060
PSTQ.CAL	5	H9500561	0 17:54:33	363092	5361293		
			281 17:56:54	363092	5361293	0.000	282

FLIGHT LOG FOR FLIGHT 96 DOY 84 LocalTime 10:16:22 Area 6 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9600361	0 10:16:35	342999	5386206		
			126 10:17:38	343279	5388730	2.539	253
TRAVERSE	21	L9602162	126 10:24:17	351004	5400386		
			201 10:24:55	351274	5400386	0.270	76
TRAVERSE	21	L9602163	201 10:26:40	351000	5400387		
			731 10:31:05	354779	5400388	3.779	482
TRAVERSE	20	L9602062	731 10:32:06	354715	5400580		
			1166 10:35:44	350979	5400579	3.736	421
TRAVERSE	19	L9601962	1166 10:36:58	350999	5400780		
			1616 10:40:43	354741	5400788	3.742	419
PER.ALTB	3	C9600362	1616 10:41:19	355391	5400986		
			1741 10:42:21	356340	5401985	1.378	250
TRAVERSE	14	L9601461	1741 10:43:39	354709	5401780		
			2511 10:50:04	350946	5401780	3.763	695
TRAVERSE	13	L9601361	2511 10:51:10	351001	5401983		
			3136 10:56:22	354755	5401988	3.754	594
TRAVERSE	12	L9601261	3136 10:57:45	354728	5402184		
			3681 11:02:17	350955	5402183	3.773	534
PER.ALTB	3	C9600363	3681 11:02:50	350147	5402119		
			3806 11:03:52	349234	5402313	0.933	250
TRAVERSE	11	L9601161	3806 11:06:17	351080	5402366		
			4266 11:10:07	354957	5402388	3.877	394
TRAVERSE	10	L9601061	4266 11:11:25	354725	5402581		
			4756 11:15:30	350962	5402585	3.763	443
TRAVERSE	9	L9600961	4756 11:16:27	351012	5402784		
			5336 11:21:17	354741	5402788	3.729	701
TRAVERSE	8	L9600861	5336 11:22:24	354702	5402980		
			5726 11:25:39	350946	5402984	3.756	222
TRAVERSE	7	L9600761	5726 11:26:34	351015	5403186		
			6076 11:29:29	354741	5403186	3.726	188
PER.ALTB	3	C9600364	6076 11:30:09	355676	5403234		
			6201 11:31:11	357396	5403265	1.720	250
TRAVERSE	6	L9600661	6201 11:32:48	354709	5403381		
			6551 11:35:43	350971	5403379	3.738	237
TRAVERSE	5	L9600561	6551 11:36:41	351004	5403581		
			6876 11:39:23	354799	5403587	3.795	221
TRAVERSE	4	L9600461	6876 11:40:33	354716	5403780		
			7196 11:43:12	350939	5403782	3.777	258
TRAVERSE	3	L9600361	7196 11:43:52	351010	5403986		
			7471 11:46:09	354747	5403985	3.737	175
TRAVERSE	2	L9600261	7471 11:47:01	354716	5404181		
			7741 11:49:16	350924	5404181	3.792	199
TRAVERSE	1	L9600161	7741 11:50:04	351013	5404388		
			7996 11:52:12	354741	5404388	3.728	124
PER.ALTB	3	C9600365	7996 11:52:45	355376	5404131		
			8126 11:53:50	356205	5402212	2.090	260

FLIGHT LOG FOR FLIGHT 97 DOY 84 LocalTime 11:54:25 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9700321	0 11:54:40	356853	5400344		
			71 11:55:15	356090	5399610	1.059	142
PER.ALTB	3	C9700322	71 11:57:17	354464	5400781		
			191 11:58:17	354458	5399887	0.894	240
TRAVERSE	85	L9708521	191 12:00:03	357508	5400383		
			481 12:02:28	361283	5400374	3.775	71
TRAVERSE	87	L9708721	481 12:03:30	361190	5400183		
			711 12:05:25	357483	5400180	3.707	32
TRAVERSE	89	L9708921	711 12:06:34	357502	5399983		

			921	12:08:19	361253	5399981	3.751	49
TRAVERSE	91	L9709121	921	12:09:03	361213	5399782		
			1166	12:11:05	357441	5399781	3.772	31
TRAVERSE	93	L9709321	1166	12:11:56	357505	5399582		
			1391	12:13:48	361269	5399582	3.764	84
TRAVERSE	95	L9709521	1391	12:14:25	361220	5399384		
			1646	12:16:32	357462	5399379	3.758	19
TRAVERSE	97	L9709721	1646	12:17:32	357521	5399187		
			1851	12:19:14	361238	5399182	3.717	73
TRAVERSE	99	L9709921	1851	12:19:53	361211	5398982		
			2116	12:22:06	357484	5398985	3.727	53
TRAVERSE	101	L9710121	2116	12:22:55	357514	5398783		
			2356	12:24:55	361291	5398782	3.777	57
PER.ALTB	3	C9700323	2356	12:25:43	361989	5397264		
			2511	12:27:00	362095	5393423	3.842	310
PER.ALTB	3	C9700324	0	12:32:50	362985	5374054		
			121	12:33:50	363446	5371166	2.925	242
PRE.TSTL	2	D9700221	121	12:36:52	363534	5363495		
			261	12:38:02	363092	5360931	2.602	9
PER.ALTB	3	C9700325	261	12:38:33	363439	5359861		
			381	12:39:33	363260	5359260	0.627	240

FLIGHT LOG FOR FLIGHT 98 DOY 84 LocalTime 12:41:05 Area 2 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C9800321	0	13:38:43	361714	5396582	
			131	13:39:48	362589	5399209	2.769
PER.ALTB	3	C9800322	131	13:42:20	363581	5405412	
			251	13:43:20	363889	5407840	2.447
TRAVERSE	30	L9803022	251	13:45:51	366325	5411382	
			1286	13:54:29	381209	5411383	14.884
PER.ALTB	3	C9800323	1286	13:55:08	382262	5410641	
			1426	13:56:18	381735	5407203	3.478
TRAVERSE	107	L9810722	1426	14:00:05	378220	5397768	
			2046	14:05:15	371208	5397780	7.012
TRAVERSE	108	L9810822	2046	14:06:08	371201	5397588	
			2651	14:11:10	378298	5397581	7.097
TRAVERSE	109	L9810921	2651	14:12:04	378212	5397383	
			3296	14:17:27	371126	5397379	7.086
TRAVERSE	110	L9811021	3296	14:18:14	371111	5397185	
			3931	14:23:31	378273	5397183	7.162
PER.ALTB	3	C9800324	3931	14:24:26	379662	5397379	
			4056	14:25:28	381272	5398001	1.726
TRAVERSE	111	L9811121	4056	14:27:33	378195	5396978	
			4771	14:33:31	370973	5396981	7.222
TRAVERSE	112	L9811221	4771	14:34:24	370986	5396784	
			5506	14:40:32	378281	5396782	7.295
TRAVERSE	113	L9811321	5506	14:41:28	378216	5396582	
			6281	14:47:55	370875	5396577	7.341
TRAVERSE	114	L9811421	6281	14:48:41	370852	5396379	
			7076	14:55:19	378302	5396388	7.450
PER.ALTB	3	C9800325	7076	14:55:51	379390	5396480	
			7221	14:57:04	381441	5396895	2.093
TRAVERSE	115	L9811521	7221	15:01:24	378208	5396183	
			8016	15:08:02	370726	5396178	7.482
TRAVERSE	116	L9811621	8016	15:08:49	370752	5395983	
			8776	15:15:09	378245	5395984	7.493
TRAVERSE	117	L9811721	8776	15:16:01	378225	5395783	
			9631	15:23:09	370617	5395780	7.608
PER.ALTB	3	C9800326	9631	15:23:57	369392	5395574	
			9811	15:25:27	367502	5395520	1.891
TRAVERSE	118	L9811821	9811	15:27:06	370657	5395583	
			10591	15:33:36	378268	5395582	7.611
TRAVERSE	119	L9811921	10591	15:34:37	378228	5395385	
			11596	15:42:59	370542	5395381	7.686

TRAVERSE	120	L9812021	11596	15:43:54	370523	5395184		
			12431	15:50:52	378260	5395184	7.737	706
PER.ALTB	3	C9800327	12431	15:52:26	379400	5394798		
			12556	15:53:28	379751	5392053	2.767	250
PER.ALTB	3	C9800328	0	15:57:38	377109	5381816		
			131	15:58:43	375925	5379276	2.802	262
PST.TSTL	4	F9800421	131	16:06:41	363533	5363490		
			276	16:07:54	363087	5360900	2.628	25
PER.ALTB	3	C9800329	276	16:08:27	363128	5359754		
			401	16:09:29	364896	5359558	1.779	250
PSTQ.CAL	5	H9800521	401	16:19:28	363092	5361294		
			701	16:21:58	363092	5361295	0.001	300

FLIGHT LOG FOR FLIGHT 99 DOY 86 LocalTime 15:53:48 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A9900131	0	14:43:21	363092	5361294		
(26/03/02)			186	14:44:54	363092	5361294	0.000	186
PreQ.Cal	1	A9900161	0	12:48:58	363092	5361292		
(27/03/02)			181	12:50:28	363091	5361293	0.001	181
PER.ALTB	3	C9900361	181	13:10:41	357913	5378473		
			311	13:11:46	356040	5381138	3.257	260
PER.ALTB	3	C9900362	311	13:14:10	352426	5387964		
			446	13:15:17	351161	5391225	3.498	270
TIE.LINE	1	T9900161	446	13:17:21	351126	5396780		
			1366	13:25:01	351127	5404888	8.108	791
PER.ALTB	3	C9900363	1366	13:25:40	351543	5406016		
			1486	13:26:40	352763	5406361	1.268	240
TIE.LINE	2	T9900261	1486	13:28:01	353136	5404584		
			2481	13:36:19	353136	5396746	7.838	493
PER.ALTB	3	C9900364	2481	13:36:55	353360	5396157		
			2596	13:37:53	354290	5396449	0.975	230
TIE.LINE	3	T9900361	2596	13:39:29	354567	5396781		
			3396	13:46:09	354569	5404654	7.873	473
PER.ALTB	3	C9900365	3396	13:46:56	355122	5405489		
			3546	13:48:11	356525	5403358	2.551	300

FLIGHT LOG FOR FLIGHT 101 DOY 86 LocalTime 14:37:25 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C0100331	0	13:56:47	363831	5385755		
			136	13:57:55	364559	5382764	3.078	272
TRAVERSE	197	L0119732	136	14:02:16	366047	5374187		
			2261	14:19:59	389075	5374188	23.028	1930
PER.ALTB	3	C0100332	2261	14:20:44	389818	5374193		
			2381	14:21:44	391222	5374185	1.404	240
TRAVERSE	198	L0119832	2381	14:23:40	388996	5373988		
			4586	14:42:03	365931	5373988	23.065	1922
PER.ALTB	3	C0100333	4586	14:42:51	365304	5373932		
			4706	14:43:51	364447	5373811	0.865	240
TRAVERSE	199	L0119933	4706	14:45:14	365916	5373793		
			6711	15:01:57	389066	5373787	23.150	1769
PER.ALTB	3	C0100334	6711	15:02:54	389787	5373743		
			6831	15:03:54	390757	5373710	0.971	240
TRAVERSE	200	L0120032	6831	15:05:23	388998	5373590		
			8866	15:22:21	365831	5373586	23.167	1493
PER.ALTB	3	C0100335	8866	15:23:08	365302	5372646		
			9021	15:24:25	364694	5370132	2.586	310
PST.TSTL	4	F0100431	0	15:27:52	363535	5363497		
			161	15:29:12	363096	5360939	2.595	0
PER.ALTB	3	C0100336	161	15:30:02	363989	5361367		
			286	15:31:04	363765	5362320	0.979	250

FLIGHT LOG FOR FLIGHT 102 DOY 86 LocalTime 15:33:26 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C0200331	0 15:48:00	364437	5364180		
			126 15:49:03	365161	5367042	2.952	252
TRAVERSE	239	L0223933	126 15:51:12	364988	5370190		
			1801 16:05:10	383860	5370189	18.872	709
PER.ALTB	3	C0200332	1801 16:06:08	384249	5369984		
			1951 16:07:23	385100	5367229	2.883	300
TRAVERSE	251	L0225132	1951 16:11:00	383812	5368993		
			3701 16:25:35	364621	5368987	19.191	564
PER.ALTB	3	C0200333	3701 16:26:31	364515	5367215		
			3831 16:27:36	364777	5364583	2.645	260
PER.ALTB	3	C0200334	3831 16:31:18	367038	5355505		
			3956 16:32:21	368166	5352991	2.755	250
TRAVERSE	462	L0246231	3956 16:36:34	372586	5346189		
			5206 16:47:00	389432	5346191	16.846	348
PER.ALTB	3	C0200335	0 16:49:55	391493	5345537		
			161 16:51:15	390498	5345449	0.999	322
TRAVERSE	463	L0246331	161 16:52:23	389387	5345986		
			1371 17:02:28	372561	5345990	16.826	258
TRAVERSE	464	L0246431	1371 17:03:41	372590	5345788		
			2576 17:13:44	389508	5345790	16.918	256
PER.ALTB	3	C0200336	2576 17:14:20	390895	5345810		
			2691 17:15:17	392310	5345817	1.415	230
PER.ALTB	3	C0200337	2691 17:15:47	393052	5345453		
			2811 17:16:47	391975	5346019	1.217	239
TRAVERSE	465	L0246531	2811 17:18:25	389396	5345586		
			4091 17:29:05	372559	5345590	16.837	241
PER.ALTB	3	C0200338	4091 17:29:57	372115	5345760		
			4211 17:30:56	373181	5347956	2.441	240
PSTQ.CAL	5	H0200531	4211 17:46:52	363092	5361294		
			4406 17:48:29	363092	5361294	0.000	195

FLIGHT LOG FOR FLIGHT 103 DOY 87 LocalTime 13:02:49 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0300131	0 13:18:52	363092	5361294		
			186 13:20:25	363091	5361294	0.001	186
PER.ALTB	3	C0300331	0 15:07:01	367882	5355534		
			116 15:07:59	368385	5353278	2.311	232
TRAVERSE	466	L0346631	116 15:12:38	372586	5345386		
			1271 15:22:16	384303	5345383	11.717	341
PER.ALTB	3	C0300332	0 15:27:15	376964	5345615		
			116 15:28:12	374856	5346852	2.444	232
PST.TSTL	4	F0300431	116 15:35:05	363094	5360995		
			231 15:36:02	363536	5363566	2.609	6
PER.ALTB	3	C0300333	231 15:36:26	363629	5364264		
			346 15:37:24	364740	5363315	1.461	231
PSTQ.CAL	5	H0300531	346 15:43:16	363092	5361293		
			576 15:45:11	363092	5361294	0.001	230

FLIGHT LOG FOR FLIGHT 104 DOY 88 LocalTime 09:54:09 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0400131	0 09:58:47	363091	5361294		
			206 10:00:30	363092	5361294	0.001	206
PER.ALTB	3	C0400331	0 10:24:23	364112	5358521		
			21 10:24:33	364264	5358171	0.382	42
scrub							
PER.ALTB	3	C0400332	21 10:27:04	366858	5353219		
			141 10:28:04	367751	5351651	1.804	240
TRAVERSE	467	L0446731	141 10:34:02	372582	5345190		
			1291 10:43:37	384231	5345190	11.649	295
PER.ALTB	3	C0400333	1291 10:44:10	385327	5345302		
			1411 10:45:10	387264	5345486	1.946	240
TRAVERSE	468	L0446831	1411 10:46:47	384191	5344988		
			2526 10:56:05	372551	5344986	11.640	368
PER.ALTB	3	C0400334	2526 10:56:28	372052	5344970		
			2641 10:57:26	370631	5344571	1.476	231
TRAVERSE	469	L0446931	2641 10:58:59	372599	5344792		
			3706 11:07:52	384225	5344790	11.626	241
TRAVERSE	470	L0447031	3706 11:08:53	384205	5344588		
			4591 11:16:16	372560	5344584	11.645	183
PER.ALTB	3	C0400335	4591 11:16:47	371673	5344584		
			4706 11:17:44	370348	5344633	1.326	230
PER.ALTB	3	C0400336	4706 11:18:17	369419	5344574		
			4826 11:19:17	368130	5344213	1.339	240
TRAVERSE	471	L0447131	4826 11:21:21	372605	5344387		
			5916 11:30:26	384248	5344387	11.643	411
TRAVERSE	472	L0447231	5916 11:31:18	384184	5344181		
			7086 11:41:03	372574	5344185	11.610	366
PER.ALTB	3	C0400337	7086 11:41:26	371810	5344169		
			7201 11:42:23	370297	5344036	1.519	230
TRAVERSE	473	L0447331	7201 11:45:07	372599	5343987		
			7696 11:49:15	378443	5343551	5.860	85
scrub							

FLIGHT LOG FOR FLIGHT 105 DOY 89 LocalTime 09:37:37 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0500131	0 09:45:25	363091	5361293		
			201 09:47:06	363091	5361294	0.001	201
PER.ALTB	3	C0500331	201 10:08:01	367705	5352723		
			321 10:09:01	368822	5350726	2.288	240
TRAVERSE	475	L0547531	321 10:13:10	372595	5343590		
			1386 10:22:03	384232	5343586	11.637	360
PER.ALTB	3	C0500332	1386 10:22:56	384692	5343619		
			1511 10:23:59	385308	5341178	2.518	252
TRAVERSE	476	L0547631	1511 10:25:34	384160	5343387		
			2681 10:35:19	372547	5343382	11.613	275
PER.ALTB	3	C0500333	2681 10:36:24	371905	5343979		
			2796 10:37:21	372403	5345936	2.019	230

FLIGHT LOG FOR FLIGHT 106 DOY 90 LocalTime 07:19:53 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0600131	0 10:04:39	363092	5361294		
			176 10:06:07	363092	5361295	0.001	176
PER.ALTB	3	C0600331	176 10:26:44	366714	5354519		
			296 10:27:44	367979	5352083	2.745	241
TRAVERSE	473	L0647332	296 10:32:16	372596	5343991		
			1546 10:42:42	384236	5343989	11.640	434
PER.ALTB	3	C0600332	1546 10:43:05	384671	5344357		
			1676 10:44:10	385788	5345851	1.865	260
TRAVERSE	474	L0647431	1676 10:46:10	384175	5343784		
			2631 10:54:08	372556	5343788	11.619	363
PER.ALTB	3	C0600333	2631 10:54:35	371804	5343773		
			2746 10:55:32	370366	5343497	1.464	230
TRAVERSE	477	L0647731	2746 10:56:53	372599	5343190		
			3756 11:05:18	384210	5343186	11.611	398
PER.ALTB	3	C0600334	3756 11:06:14	385147	5342272		
			3886 11:07:19	385385	5341078	1.217	260
TRAVERSE	478	L0647831	3886 11:09:32	383701	5343122		
			3906 11:09:42	383460	5342836	0.374	40
scrub							
TRAVERSE	479	L0647931	3906 11:13:09	384172	5342788		
			4831 11:20:51	372546	5342783	11.626	399
TRAVERSE	480	L0648031	4831 11:21:51	372591	5342581		
			5891 11:30:41	384197	5342588	11.606	578
PER.ALTB	3	C0600335	5891 11:31:35	385426	5341922		
			6021 11:32:40	386779	5341399	1.451	260
TRAVERSE	481	L0648131	6021 11:34:11	384159	5342385		
			7196 11:43:59	372519	5342384	11.640	392
TRAVERSE	482	L0648231	7196 11:44:48	372601	5342189		
			8231 11:53:26	384243	5342193	11.642	457
PER.ALTB	3	C0600336	8231 11:54:02	384925	5341674		
			8356 11:55:05	386026	5341761	1.104	251
TRAVERSE	483	L0648331	8356 11:56:23	384137	5341979		
			9351 12:04:41	372546	5341983	11.591	539
TRAVERSE	484	L0648431	9351 12:05:25	372618	5341790		
			9816 12:09:17	380562	5341791	7.944	100
Incomplete (W side only)							
TRAVERSE	485	L0648531	9816 12:09:42	380725	5341685		
			10401 12:14:34	372517	5341583	8.209	100
Incomplete (W side only)							
PER.ALTB	3	C0600337	10401 12:15:34	373302	5340587		
			10521 12:16:35	374462	5339255	1.766	241
TRAVERSE	501	L0650131	10521 12:20:38	378760	5338387		
			11166 12:26:01	384126	5338391	5.366	273
TRAVERSE	502	L0650231	11166 12:27:07	384099	5338193		
			11901 12:33:15	378612	5338183	5.487	183
TRAVERSE	503	L0650331	11901 12:34:15	378593	5337989		
			12596 12:40:02	384130	5337992	5.537	211
PER.ALTB	3	C0600338	12596 12:40:15	384486	5337924		
			12726 12:41:20	385195	5336898	1.247	261
TRAVERSE	504	L0650431	12726 12:43:16	384094	5337783		
			13351 12:48:29	378480	5337786	5.614	131
TRAVERSE	505	L0650531	13351 12:49:26	378419	5337585		
			13981 12:54:41	384100	5337594	5.681	113
TRAVERSE	506	L0650631	13981 12:55:39	384080	5337385		
			14481 12:59:49	378312	5337384	5.768	110
TRAVERSE	507	L0650731	14481 13:00:45	378251	5337190		
			15011 13:05:10	384102	5337194	5.851	162
TRAVERSE	508	L0650831	15011 13:06:06	384069	5336990		
			15576 13:10:48	378134	5336981	5.935	110

PER.ALTB	3	C0600339	15576	13:11:22	377736	5336802		
			15696	13:12:22	377205	5336603	0.567	240
TRAVERSE	509	L0650931	15696	13:13:07	378088	5336792		
			16281	13:17:59	384100	5336793	6.012	204
TRAVERSE	510	L0651031	16281	13:18:39	384065	5336493		
			16306	13:18:51	383729	5336807	0.460	47
scrub								
PER.ALTB	3	C0600330	16306	13:19:23	383175	5338122		
			16586	13:21:43	380351	5344109	6.620	560

FLIGHT LOG FOR FLIGHT 107 DOY 90 LocalTime 14:28:29 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C0700331	0	14:39:35	371261	5344613		
			116	14:40:33	372953	5342165	2.976	232
TRAVERSE	511	L0751131	116	14:43:50	377915	5336389		
			731	14:48:58	384112	5336385	6.197	126
TRAVERSE	510	L0751032	731	14:49:58	384071	5336585		
			1391	14:55:28	377585	5336583	6.486	113
TRAVERSE	512	L0751231	1391	14:55:29	377553	5336583		
			1391	14:55:29	377544	5336583	0.009	4
scrub								
TRAVERSE	512	L0751232	1391	14:56:45	377828	5336188		
			2006	15:01:52	384081	5336185	6.253	157
TRAVERSE	513	L0751331	2006	15:02:59	384049	5335979		
			2566	15:07:39	377729	5335982	6.320	98
PER.ALTB	3	C0700332	2566	15:08:29	376999	5336439		
			2681	15:09:26	376856	5335770	0.684	230
TRAVERSE	514	L0751431	2681	15:10:40	377689	5335788		
			3191	15:14:55	384073	5335788	6.384	109
TRAVERSE	515	L0751531	3191	15:15:45	384052	5335587		
			3711	15:20:05	377505	5335586	6.547	62
TRAVERSE	516	L0751631	3711	15:20:46	377518	5335387		
			4236	15:25:08	384080	5335384	6.562	68
TRAVERSE	517	L0751731	4236	15:25:54	384045	5335183		
			4681	15:29:36	377468	5335184	6.577	51
TRAVERSE	518	L0751831	4681	15:30:24	377509	5334993		
			5126	15:34:06	384086	5334993	6.577	87
PER.ALTB	3	C0700333	5126	15:34:40	385053	5334804		
			5241	15:35:37	385588	5333948	1.009	230
TRAVERSE	519	L0751931	5241	15:37:02	384027	5334790		
			5661	15:40:32	377508	5334782	6.519	108
TRAVERSE	520	L0752031	5661	15:41:35	377649	5334590		
			6121	15:45:25	384049	5334588	6.400	71
TRAVERSE	521	L0752131	6121	15:46:19	384022	5334380		
			6551	15:49:54	377699	5334382	6.323	47
TRAVERSE	522	L0752231	6551	15:50:43	377804	5334192		
			7086	15:55:10	384095	5334186	6.291	66
TRAVERSE	523	L0752331	7086	15:56:07	384023	5333986		
			7646	16:00:48	377843	5333981	6.180	168
PER.ALTB	3	C0700334	7646	16:01:43	376760	5334549		
			7766	16:02:43	376296	5333898	0.799	240
TRAVERSE	524	L0752431	7766	16:03:45	377952	5333787		
			8346	16:08:35	384042	5333792	6.090	172
TRAVERSE	525	L0752531	8346	16:09:34	384026	5333584		
			8841	16:13:41	380724	5333583	3.302	114
Humm Drop Out								
PER.ALTB	3	C0700335	8841	16:15:43	376842	5333619		
			8956	16:16:40	374699	5333864	2.157	230
Null follows								
PER.ALTB	3	C0700336	8956	16:17:17	375483	5334126		
			9076	16:18:17	375683	5331944	2.191	240
TRAVERSE	525	L0752532	9076	16:20:05	378014	5333586		
			9956	16:27:25	384071	5333593	6.057	220
TRAVERSE	526	L0752631	9956	16:28:33	384022	5333383		

			10756	16:35:13	378073	5333385	5.949	267
TRAVERSE	527	L0752731	10756	16:36:15	378160	5333186		
			11526	16:42:40	383927	5333190	5.767	245
PER.ALTB	3	C0700337	11526	16:42:56	384248	5333207		
			11726	16:44:36	384608	5333346	0.386	400
TRAVERSE	528	L0752831	11726	16:45:58	383807	5332993		
			12561	16:52:56	378215	5332988	5.592	302
TRAVERSE	529	L0752931	12561	16:54:04	378312	5332791		
			13261	16:59:54	383731	5332790	5.419	222
TRAVERSE	530	L0753031	13261	17:01:25	383584	5332586		
			13966	17:07:18	378375	5332586	5.209	236
PER.ALTB	3	C0700338	13966	17:09:13	378387	5331918		
			14076	17:10:08	379646	5330847	1.653	220
TRAVERSE	531	L0753131	14076	17:14:41	378470	5332392		
			14576	17:18:51	383513	5332389	5.043	145
PER.ALTB	3	C0700339	14576	17:20:20	382689	5333426		
			14736	17:21:40	380309	5335835	3.386	320
PST.TSTL	4	F0700431	14736	17:32:43	363095	5360991		
			14856	17:33:43	363539	5363580	2.627	25
PER.ALTB	3	C0700330	14856	17:34:09	363991	5363971		
			14976	17:35:09	364581	5362099	1.963	240
PSTQ.CAL	5	H0700531	14976	17:45:50	363092	5361293		
			15191	17:47:38	363092	5361293	0.000	215

FLIGHT LOG FOR FLIGHT 108 DOY 91 LocalTime 07:16:31 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A0800131	0 08:58:27	363092	5361293		
			176 08:59:55	363092	5361293	0.000	176
PER.ALTB	3	C0800331	176 09:14:27	375063	5357892		
			296 09:15:27	377940	5356613	3.148	241
TIE.LINE	30	T0803031	296 09:19:39	383620	5350591		
			3236 09:44:10	383630	5331662	18.929	1035
PER.ALTB	3	C0800332	3236 09:46:55	383247	5332085		
			3431 09:48:33	383860	5331875	0.648	390
TIE.LINE	29	T0802931	3431 09:52:02	384803	5326794		
			3701 09:54:17	384807	5322967	3.827	91
PER.ALTB	3	C0800333	3701 09:56:53	383191	5322853		
			3816 09:57:50	381958	5323406	1.351	230
TIE.LINE	26	T0802631	3816 10:00:03	380207	5321396		
			4841 10:08:36	380206	5314361	7.035	431
PER.ALTB	3	C0800334	4841 10:09:37	381082	5314290		
			5011 10:11:02	383173	5315890	2.633	340
PER.ALTB	3	C0800335	5011 10:11:35	383916	5316540		
			5156 10:12:47	385412	5317890	2.015	290
TRAVERSE	601	L0860131	5156 10:14:26	383198	5318381		
			5376 10:16:16	382232	5318384	0.966	49
scrub							
PER.ALTB	3	C0800336	5376 10:18:14	382474	5319540		
			5496 10:19:14	381047	5319548	1.427	240
TIE.LINE	25	T0802533	5496 10:23:37	379122	5320748		
			7371 10:39:15	379120	5343530	22.782	743
PER.ALTB	3	C0800337	7371 10:40:29	378613	5344504		
			7486 10:41:27	376753	5344964	1.916	231
TRAVERSE	461	L0846132	7486 10:45:11	372588	5346388		
			8726 10:55:31	389506	5346388	16.918	420
PER.ALTB	3	C0800338	8726 10:56:14	389811	5345278		
			8851 10:57:16	388804	5343397	2.134	250
TRAVERSE	478	L0847832	8851 10:59:50	384168	5342986		
			9791 11:07:40	372578	5342985	11.590	324
PER.ALTB	3	C0800339	9791 11:08:48	372710	5341425		
			9921 11:09:53	373580	5338931	2.641	260
TRAVERSE	532	L0853231	9921 11:14:02	378559	5332191		
			10391 11:17:57	383431	5332183	4.872	163
TRAVERSE	533	L0853331	10391 11:19:15	383270	5331987		

			10711	11:21:55	378599	5331986	4.671	114
TRAVERSE	534	L0853431	10711	11:22:57	378690	5331790		
			11036	11:25:39	383207	5331794	4.517	122
TRAVERSE	535	L0853531	11036	11:26:41	383036	5331585		
			11301	11:28:54	378748	5331591	4.288	91
TRAVERSE	536	L0853631	11301	11:30:03	379067	5331390		
			11621	11:32:43	383024	5331391	3.957	113
PER.ALTB	3	C0800330	11621	11:33:48	383958	5331314		
			11741	11:34:47	386906	5330307	3.115	240
TRAVERSE	537	L0853731	11741	11:38:02	382834	5331181		
			12051	11:40:37	378877	5331184	3.957	143
TRAVERSE	538	L0853831	12051	11:41:43	378995	5330991		
			12466	11:45:10	382759	5330993	3.764	101
TRAVERSE	539	L0853931	12466	11:46:36	382637	5330786		
			12836	11:49:41	378970	5330786	3.667	109
TRAVERSE	540	L0854031	12836	11:50:23	378985	5330590		
			13386	11:54:58	382567	5330592	3.582	186
TRAVERSE	541	L0854131	13386	11:56:08	382419	5330386		
			13711	11:58:50	378950	5330382	3.469	121
PER.ALTB	3	Q0800331	13711	11:59:34	377934	5330832		
			13841	12:00:39	376763	5332676	2.184	260

FLIGHT LOG FOR FLIGHT 109 DOY 91 LocalTime 12:06:55 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C0900331	0 12:49:23	372402	5339363		
			126 12:50:26	373714	5336440	3.204	252
TRAVERSE	542	L0954231	126 12:53:37	378989	5330192		
			756 12:58:52	382348	5330192	3.359	117
TRAVERSE	543	L0954331	756 12:59:54	382440	5329978		
			1171 13:03:21	378959	5329983	3.481	122
TRAVERSE	544	L0954431	1171 13:04:31	378998	5329793		
			1846 13:10:09	382571	5329794	3.573	131
PER.ALTB	3	C0900332	1846 13:10:50	383275	5329762		
			1961 13:11:47	384335	5329395	1.122	230
TRAVERSE	545	L0954531	1961 13:13:09	382656	5329584		
			2381 13:16:39	378976	5329582	3.680	102
TRAVERSE	546	L0954631	2381 13:17:32	378994	5329386		
			2886 13:21:44	382796	5329394	3.802	50
TRAVERSE	547	L0954731	2886 13:22:29	382885	5329186		
			3356 13:26:24	378973	5329185	3.912	48
TRAVERSE	548	L0954831	3356 13:27:28	378995	5328987		
			3876 13:31:48	383037	5328992	4.042	137
PER.ALTB	3	C0900333	3876 13:32:12	383743	5329045		
			4001 13:33:15	385606	5328669	1.901	251
TRAVERSE	549	L0954931	4001 13:34:50	383094	5328783		
			4481 13:38:50	378969	5328785	4.125	196
TRAVERSE	550	L0955031	4481 13:39:44	378992	5328589		
			5126 13:45:06	383296	5328576	4.304	143
TRAVERSE	551	L0955131	5126 13:46:11	383346	5328383		
			5796 13:51:46	378978	5328387	4.368	398
TRAVERSE	552	L0955231	5796 13:52:41	379003	5328190		
			6461 13:58:14	383472	5328192	4.469	115
PER.ALTB	3	C0900334	6461 13:58:33	384133	5328210		
			6581 13:59:33	385879	5327993	1.759	240
TRAVERSE	553	L0955331	6581 14:01:11	383563	5327983		
			7091 14:05:26	378929	5327985	4.634	234
TRAVERSE	554	L0955431	7091 14:06:27	378997	5327786		
			7656 14:11:09	383716	5327785	4.719	48
TRAVERSE	555	L0955531	7656 14:12:12	383793	5327583		
			8111 14:15:59	378939	5327585	4.854	158
TRAVERSE	556	L0955631	8111 14:16:56	378992	5327382		
			8521 14:20:21	383924	5327396	4.932	36
PER.ALTB	3	C0900335	8521 14:20:38	384478	5327374		
			8646 14:21:40	386128	5327470	1.653	250

TRAVERSE	557	L0955731	8646	14:23:51	384018	5327182		
			9056	14:27:16	378966	5327185	5.052	83
TRAVERSE	558	L0955831	9056	14:28:03	378984	5326987		
			9486	14:31:38	384158	5326991	5.174	38
TRAVERSE	559	L0955931	9486	14:32:50	384237	5326785		
			9891	14:36:12	378977	5326788	5.260	85
TRAVERSE	560	L0956031	9891	14:37:33	378987	5326589		
			10371	14:41:33	384397	5326591	5.410	42
TRAVERSE	561	L0956131	10371	14:42:17	384433	5326386		
			10836	14:46:09	378946	5326388	5.487	135
PER.ALTB	3	C0900336	10836	14:47:03	378081	5327051		
			10971	14:48:11	378281	5326494	0.592	270
PER.ALTB	3	C0900337	10971	14:49:20	378295	5327279		
			11101	14:50:24	377741	5329038	1.844	260
PER.ALTB	3	C0900338	11101	16:19:26	364070	5360232		
			11221	16:20:26	364863	5357927	2.438	241

FLIGHT LOG FOR FLIGHT 110 DOY 91 LocalTime 16:22:33 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1000331	0 16:26:59	371648	5339566		
			166 16:28:21	373467	5335918	4.076	332
PER.ALTB	3	C1000332	166 16:28:45	373964	5334911		
			251 16:29:27	374878	5333132	2.000	170
PER.ALTB	3	C1000333	251 16:30:24	376058	5330628		
			296 16:30:46	376445	5329713	0.993	90
PER.ALTB	3	C1000334	0 16:35:23	377940	5325755		
			146 16:36:36	378410	5323221	2.577	292
TRAVERSE	562	L1056231	146 16:39:23	378990	5326193		
			691 16:43:56	384639	5326188	5.649	46
TRAVERSE	563	L1056331	691 16:44:55	384673	5325988		
			1216 16:49:18	378979	5325986	5.694	144
TRAVERSE	564	L1056431	1216 16:50:13	378980	5325786		
			1776 16:54:53	384823	5325795	5.843	96
TRAVERSE	565	L1056531	1776 16:55:35	384884	5325589		
			2396 17:00:45	378959	5325586	5.925	114
PER.ALTB	3	C1000335	2396 17:01:54	378573	5325986		
			2556 17:03:14	378369	5327627	1.654	321
TRAVERSE	566	L1056631	2556 17:05:30	378990	5325390		
			3351 17:12:08	385030	5325386	6.040	135
TRAVERSE	567	L1056731	3351 17:12:54	385002	5325188		
			3981 17:18:09	378976	5325184	6.026	130
TRAVERSE	568	L1056831	3981 17:18:53	378987	5324985		
			4481 17:23:03	385062	5324990	6.075	101
TRAVERSE	569	L1056931	4481 17:23:37	385002	5324792		
			5036 17:28:14	378952	5324785	6.050	75
PER.ALTB	3	C1000336	5036 17:28:49	379064	5325029		
			5201 17:30:11	378738	5325248	0.393	330
TRAVERSE	570	L1057031	5201 17:31:24	378982	5324586		
			5776 17:36:11	385040	5324590	6.058	71
TRAVERSE	571	L1057131	5776 17:36:53	385012	5324398		
			6356 17:41:43	378969	5324382	6.043	242
TRAVERSE	572	L1057231	6356 17:42:36	378995	5324188		
			6861 17:46:49	385035	5324190	6.040	120
TRAVERSE	573	L1057331	6861 17:47:48	385005	5323985		
			7441 17:52:38	379502	5324009	5.503	216
scrub							
PER.ALTB	3	C1000337	7441 17:53:15	379968	5324689		
			7581 17:54:24	378180	5324123	1.875	280
TRAVERSE	573	L1057332	7581 17:55:10	379008	5323991		
			8076 17:59:17	385063	5323992	6.055	128
TRAVERSE	574	L1057431	8076 18:00:05	385027	5323797		
			8651 18:04:52	378975	5323786	6.052	78
TRAVERSE	575	L1057531	8651 18:05:37	378998	5323583		
			9236 18:10:30	385044	5323591	6.046	66

PER.ALTB	3	C1000338	9236	18:11:18	385811	5324810		
			9411	18:12:46	385140	5327824	3.088	351
PER.ALTB	3	C1000339	9411	18:22:21	369816	5346581		
			9541	18:23:26	368458	5348808	2.608	260
PST.TSTL	4	F1000431	9541	18:28:44	363095	5360993		
			9691	18:29:59	363527	5363522	2.566	2
PER.ALTB	3	C1000330	9691	18:30:32	364210	5363215		
			9816	18:31:34	364855	5361049	2.260	248
PSTQ.CAL	5	H1000531	9816	18:40:41	363092	5361294		
			10096	18:43:02	363091	5361294	0.001	280

FLIGHT LOG FOR FLIGHT 111 DOY 92 LocalTime 07:36:27 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A1100131	0	08:59:38	363092	5361294		
			161	09:00:58	363092	5361294	0.000	161
PER.ALTB	3	C1100331	161	09:11:46	365133	5357996		
			281	09:12:46	366597	5355383	2.995	240
PER.ALTB	3	C1100332	281	09:19:18	374226	5333767		
			396	09:20:16	375738	5330928	3.217	230
TRAVERSE	576	L1157631	396	09:23:55	379009	5323388		
			741	09:26:48	383271	5323391	4.262	142
TRAVERSE	577	L1157731	741	09:27:38	383208	5323185		
			1111	09:30:43	378925	5323189	4.283	172
TRAVERSE	578	L1157831	1111	09:32:00	378989	5322989		
			1486	09:35:08	383233	5322989	4.244	159
poor GPS								
PER.ALTB	3	C1100333	1486	09:35:40	384504	5322935		
			1611	09:36:42	387063	5322599	2.581	250
TRAVERSE	579	L1157931	1611	09:38:24	383202	5322784		
			2016	09:41:46	378978	5322787	4.224	88
TRAVERSE	580	L1158031	2016	09:42:38	378983	5322590		
			2471	09:46:26	383230	5322589	4.247	125
PER.ALTB	3	C1100334	2471	09:47:02	384521	5322622		
			2586	09:47:59	386830	5322591	2.309	230
TRAVERSE	581	L1158131	2586	09:50:32	383216	5322388		
			3046	09:54:22	378974	5322388	4.242	48
TRAVERSE	582	L1158231	3046	09:55:27	378997	5322188		
			3496	09:59:12	381415	5322193	2.418	92
scrub poor GPS								
PER.ALTB	3	C1100335	3496	10:01:24	384528	5322443		
			3641	10:02:36	387372	5322734	2.859	290
PER.ALTB	3	C1100336	3641	10:03:13	388716	5322675		
			3676	10:03:30	389327	5322408	0.667	70
scrub								
PER.ALTB	3	C1100337	3676	10:03:49	389907	5321922		
			3806	10:04:54	387836	5321686	2.084	260
TRAVERSE	582	L1158232	3806	10:07:47	383224	5322183		
			4311	10:12:00	378943	5322185	4.281	197
TRAVERSE	583	L1158331	4311	10:13:24	379000	5321990		
			4456	10:14:36	379820	5321989	0.820	130
scrub poor GPS								
PER.ALTB	3	C1100338	4456	10:15:42	379820	5321989		
			4571	10:16:39	383756	5319370	4.728	230
TRAVERSE	601	L1160132	4571	10:19:03	383217	5318386		
			4876	10:21:35	380482	5318393	2.735	131
scrub aborted & poor GPS								
TRAVERSE	591	L1159131	4876	10:24:48	383223	5320386		
			5366	10:28:53	379397	5320383	3.826	106
scrub Humm drop out								
PER.ALTB	3	C1100339	0	10:31:55	377468	5319791		
			116	10:32:53	377453	5320055	0.264	232
TRAVERSE	590	L1159031	116	10:36:39	383030	5320732		

			116	10:36:39	383030	5320732	0.000	3
scrub								
TRVERSE	592	L1159231	116	10:38:10	383224	5320191		
			561	10:41:52	379530	5320182	3.694	143
TRVERSE	590	L1159032	561	10:45:28	383220	5320587		
			991	10:49:03	379254	5320583	3.966	125
PER.ALTB	3	C1100330	991	10:49:33	380123	5320538		
			1101	10:50:28	382965	5319977	2.897	221
TRVERSE	589	L1158931	1101	10:52:01	383222	5320786		
			1541	10:55:41	379087	5320784	4.135	136
TRVERSE	588	L1158831	1541	10:56:41	378987	5320986		
			1971	11:00:16	383251	5320989	4.264	256
TRVERSE	601	L1160133	1971	11:02:26	383204	5318388		
			2171	11:04:06	380675	5318420	2.529	137
scrub aborted								
TRVERSE	599	L1159931	2171	11:07:38	379940	5318791		
			2216	11:08:00	380473	5319063	0.598	79
scrub aborted								
PER.ALTB	3	Q1100331	2216	11:08:18	381217	5319340		
			2336	11:09:18	383141	5320174	2.097	240
TRVERSE	587	L1158731	2336	11:10:58	383223	5321194		
			2791	11:14:46	378977	5321182	4.246	121
TRVERSE	586	L1158631	2791	11:15:42	378995	5321389		
			3211	11:19:12	383273	5321392	4.278	194
TRVERSE	585	L1158531	3211	11:19:53	383214	5321594		
			3641	11:23:28	378961	5321584	4.253	197
TRVERSE	584	L1158431	3641	11:24:30	378986	5321788		
			4166	11:28:52	383274	5321794	4.288	213
TRVERSE	583	L1158332	4166	11:29:27	383206	5321997		
			4596	11:33:02	378941	5321981	4.265	161
PER.ALTB	3	Q1100332	4596	11:33:17	378454	5321927		
			4711	11:34:14	377514	5321739	0.959	230
TRVERSE	591	L1159132	4711	11:37:07	379417	5320388		
			5106	11:40:25	383235	5320384	3.818	118
_ Zdas lock up								
TRVERSE	593	L1159331	0	11:43:31	383210	5319989		
			246	11:45:34	380532	5320022	2.678	76
PER.ALTB	3	Q1100333	246	11:47:14	378869	5322253		
			371	11:48:17	377348	5324060	2.362	251
PER.ALTB	3	Q1100334	371	11:59:01	370197	5341286		
			501	12:00:06	369378	5343377	2.246	261
PST.TSTL	4	F1100431	501	12:09:07	363096	5360988		
			651	12:10:23	363532	5363515	2.564	7
PER.ALTB	3	Q1100335	651	12:10:49	363940	5363433		
			791	12:11:59	364397	5361550	1.938	281

FLIGHT LOG FOR FLIGHT 112 DOY 92 LocalTime 12:16:09 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1200331	0	13:42:06	372004	5351766	
			206	13:43:49	373345	5345853	6.063
TRVERSE	500	L1250031	206	13:47:49	378843	5338589	
			796	13:52:44	384118	5338590	5.275
TRVERSE	499	L1249931	796	13:53:49	384110	5338791	
			1381	13:58:42	378876	5338782	5.234
PER.ALTB	3	C1200332	1381	14:00:48	378305	5333776	
			1541	14:02:08	378102	5329780	4.001
TRVERSE	600	L1260031	1541	14:07:13	380005	5318594	
			1836	14:09:40	383288	5318589	3.283
TRVERSE	599	L1259932	1836	14:10:29	383198	5318792	
			1901	14:15:05	379758	5319003	3.446
TRVERSE	598	L1259831	1901	14:16:32	379991	5319002	
			2176	14:18:49	383252	5318992	3.261
TRVERSE	594	L1259431	2176	14:20:24	383211	5319794	
			2501	14:23:06	379823	5319779	3.388

PER.ALTB	3	C1200333	2501	14:23:44	378851	5319594		
			2626	14:24:46	378325	5319598	0.526	250
TRAVERSE	597	L1259731	2626	14:26:29	379994	5319195		
			2906	14:28:49	383262	5319186	3.268	147
PER.ALTB	3	C1200334	2906	14:30:31	384018	5319047		
			3046	14:31:41	385102	5318567	1.186	280
PER.ALTB	3	C1200335	3046	14:38:03	384341	5319151		
			3166	14:39:03	384950	5319691	0.814	240
TRAVERSE	593	L1259332	3166	14:40:06	383218	5319990		
			3496	14:42:51	379693	5319980	3.525	194
TRAVERSE	596	L1259631	3496	14:44:27	379988	5319389		
			3746	14:46:32	383235	5319394	3.247	184
TRAVERSE	595	L1259531	3746	14:47:19	383219	5319589		
			4086	14:50:09	379966	5319584	3.253	203
PER.ALTB	3	C1200336	4086	14:51:08	379477	5320616		
			4281	14:52:45	378236	5323775	3.394	390
PSTQ.CAL	5	H1200531	0	15:17:01	363090	5361296		
			181	15:18:31	363091	5361294	0.002	181

FLIGHT LOG FOR FLIGHT 113 DOY 92 LocalTime 17:02:04 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PreQ.Cal	1	A1300131	0	07:44:02	363091	5361294		
			171	07:45:28	363091	5361294	0.000	171
PER.ALTB	3	C1300331	171	07:59:34	367134	5357408		
			296	08:00:36	369659	5355134	3.398	250
PER.ALTB	3	C1300332	296	08:03:25	376958	5348046		
			426	08:04:30	379524	5344895	4.064	260
TRAVERSE	488	L1348831	426	08:08:04	384004	5340880		
			651	08:09:56	381758	5340978	2.248	196
TRAVERSE	487	L1348731	651	08:10:20	381626	5341109		
			871	08:12:10	383917	5341371	2.306	265
TRAVERSE	486	L1348631	871	08:12:17	384151	5341395		
			876	08:12:19	384212	5341403	0.062	7
scrub								
TRAVERSE	485	L1348532	876	08:13:04	384141	5341587		
			1126	08:15:09	381629	5341584	2.512	200
PER.ALTB	3	C1300333	1126	08:16:32	383574	5341698		
			1246	08:17:32	385625	5341518	2.059	240
TRAVERSE	485	L1348533	1246	08:18:52	384145	5341584		
			1461	08:20:39	381756	5341579	2.389	179
TRAVERSE	484	L1348432	1461	08:20:46	381661	5341610		
			1696	08:22:44	384183	5341785	2.528	323
PER.ALTB	3	C1300334	1696	08:23:33	385149	5341483		
			1811	08:24:30	384812	5341403	0.346	230
TRAVERSE	498	L1349831	1811	08:26:44	384111	5338986		
			2261	08:30:29	380469	5338991	3.642	224
TRAVERSE	497	L1349731	2261	08:30:34	380378	5339009		
			2551	08:32:59	382219	5339185	1.849	182 Humm
drop out								

FLIGHT LOG FOR FLIGHT 113 DOY 93 LocalTime 08:34:28 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C1300335	0	08:37:25	382390	5339916		
			116	08:38:23	382174	5340129	0.303	232
TRAVERSE	497	L1349732	116	08:40:20	384109	5339189		
			581	08:44:12	380195	5339205	3.914	263
TRAVERSE	496	L1349631	581	08:44:19	380121	5339247		
			1076	08:48:26	384134	5339390	4.016	308
PER.ALTB	3	C1300336	1076	08:50:48	385039	5340581		
			1186	08:51:43	384988	5341132	0.553	221

TRAVERSE	495	L1349531	1186	08:54:11	382508	5339491		
			1206	08:54:21	382396	5339777	0.307	40
scrub poor GPS								
PER.ALTB	3	C1300337	1206	08:56:20	380718	5342675		
			1326	08:57:20	379120	5343141	1.665	240
PER.ALTB	3	C1300338	1326	09:04:39	368687	5350288		
			1441	09:05:37	367432	5351727	1.909	230
PST.TSTL	4	F1300431	1441	09:11:04	363097	5361001		
			1616	09:12:32	363531	5363518	2.554	10
PER.ALTB	3	C1300339	1616	09:12:59	364079	5363340		
			1736	09:14:00	364625	5360812	2.586	238
PSTQ.CAL	5	H1300531	1736	09:31:57	363092	5361294		
			1891	09:33:15	363092	5361293	0.001	155

FLIGHT LOG FOR FLIGHT 114 DOY 97 LocalTime 11:14:21 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1400131	0	11:20:52	363091	5361291	
			196	11:22:30	363091	5361290	0.001
PER.ALTB	3	C1400331	196	11:58:11	373036	5351635	
			311	11:59:08	374627	5350072	2.230
PER.ALTB	3	C1400332	311	12:01:14	378342	5347103	
			426	12:02:12	379974	5345966	1.989
TRAVERSE	486	L1448632	426	12:07:20	384147	5341392	
			686	12:09:30	381695	5341380	2.452
TRAVERSE	487	L1448732	686	12:09:43	381603	5341290	
			1006	12:12:23	384013	5341360	2.411
PER.ALTB	3	C1400333	1006	12:13:08	385553	5341367	
			1121	12:14:07	386619	5341076	1.105
TRAVERSE	489	L1448931	1121	12:15:29	384117	5340790	
			1376	12:17:36	381815	5340784	2.302
TRAVERSE	490	L1449031	1376	12:18:00	381700	5340640	
			1796	12:21:30	384183	5340590	2.484
TRAVERSE	491	L1449131	1796	12:22:11	384128	5340384	
			2141	12:25:03	381363	5340384	2.765
TRAVERSE	492	L1449231	2141	12:25:23	381246	5340253	
			2561	12:28:53	384158	5340193	2.913
PER.ALTB	3	C1400334	2561	12:29:35	385029	5340546	
			2666	12:30:28	386243	5341527	1.561
TRAVERSE	493	L1449331	0	12:35:37	384115	5339984	
			311	12:38:13	381402	5339969	2.713
TRAVERSE	494	L1449431	311	12:38:30	381220	5339869	
			691	12:41:39	384159	5339791	2.940
TRAVERSE	495	L1449532	691	12:42:28	384122	5339581	
			1126	12:46:05	380279	5339441	3.846
PER.ALTB	3	C1400335	1126	12:47:02	379859	5337990	
			1261	12:48:09	378864	5336387	1.887
TIE.LINE	26	T1402632	1261	12:49:12	379359	5336689	
			1986	12:55:14	382617	5342807	6.931
PER.ALTB	3	C1400336	1986	12:56:36	382664	5340748	
			2111	12:57:39	381737	5338085	2.820
TRAVERSE	558	L1455832	2111	13:03:51	378990	5326991	
			2551	13:07:31	384145	5326994	5.155
TRAVERSE	559	L1455932	2551	13:08:27	384233	5326776	
			2911	13:11:27	378937	5326789	5.296
TRAVERSE	560	L1456032	2911	13:12:25	378994	5326591	
			3416	13:16:37	384374	5326593	5.380
TRAVERSE	561	L1456132	3416	13:17:20	384451	5326368	
			3831	13:20:48	378955	5326391	5.496
PER.ALTB	3	C1400337	3831	13:21:38	378544	5325946	
			3946	13:22:36	378576	5325043	0.904
TRAVERSE	569	L1456932	3946	13:24:15	378995	5324794	
			4551	13:29:18	385037	5324791	6.042
TRAVERSE	570	L1457032	4551	13:31:13	383568	5324583	

			4561	13:31:18	383458	5324581	0.110	2
scrub								
TRAVERSE	570	L1457033	4561	13:33:29	384994	5324587		
			5106	13:38:02	378959	5324582	6.035	203
PER.ALTB	3	C1400338	0	13:41:09	378924	5324190		
			121	13:42:09	378421	5323247	1.069	242
TRAVERSE	573	L1457333	121	13:43:30	378992	5323988		
			716	13:48:28	385047	5323991	6.055	306
TRAVERSE	574	L1457432	716	13:49:30	385014	5323784		
			1276	13:54:10	378929	5323783	6.085	239
PER.ALTB	3	C1400339	1276	13:55:25	378729	5325839		
			1636	13:58:25	375474	5332462	7.380	720
PER.ALTB	3	C1400330	1636	14:06:54	365945	5353515		
			1756	14:07:54	364759	5356110	2.853	240
PST.TSTL	4	F1400431	1756	14:10:18	363097	5361005		
			1891	14:11:26	363532	5363534	2.566	6
PER.ALTB	3	Q1400331	1891	14:12:02	363884	5363176		
			2011	14:13:02	363558	5362092	1.132	241

FLIGHT LOG FOR FLIGHT 115 DOY 97 LocalTime 14:53:25 Area 3 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1500331	0	14:54:58	375224	5332950	
			166	14:56:21	376388	5329306	3.825
TRAVERSE	599	L1559933	166	15:01:49	383539	5318839	
			171	15:01:51	383598	5318844	0.059
scrub							
TRAVERSE	599	L1559934	171	15:01:55	383704	5318846	
			181	15:02:01	383809	5318838	0.105
scrub							
TRAVERSE	599	L1559935	181	15:03:16	383218	5318789	
			651	15:07:11	379973	5318784	3.245
PER.ALTB	3	C1500332	651	15:08:07	381230	5319184	
			766	15:09:04	382859	5319637	1.691
TRAVERSE	595	L1559532	766	15:11:07	383213	5319586	
			1166	15:14:27	379972	5319589	3.241
TRAVERSE	575	L1557532	1166	15:17:15	378992	5323591	
			1411	15:19:17	380736	5323595	1.744
scrub Humm drop out							
PER.ALTB	3	C1500333	0	15:21:18	379411	5325252	
			116	15:22:16	378884	5326184	1.071
TRAVERSE	575	L1557533	116	15:24:39	378999	5323591	
			776	15:30:09	385031	5323589	6.032
PER.ALTB	3	C1500334	776	15:32:18	382740	5325695	
			896	15:33:19	380305	5327440	2.996
PER.ALTB	3	C1500335	896	15:37:13	377196	5336777	
			1006	15:38:08	376701	5337972	1.293
TRAVERSE	498	L1549832	1006	15:40:15	379009	5338993	
			1046	15:40:35	379303	5338991	0.294
TRAVERSE	497	L1549733	1046	15:41:08	379415	5339145	
			1126	15:41:48	378903	5339184	0.513
TRAVERSE	496	L1549632	1126	15:42:22	378897	5339378	
			1221	15:43:09	379411	5339392	0.514
TRAVERSE	495	L1549533	1221	15:43:35	379511	5339545	
			1311	15:44:20	378926	5339584	0.586
TRAVERSE	494	L1549432	1311	15:44:53	378688	5339786	
			1461	15:46:08	379527	5339795	0.839
TRAVERSE	493	L1549332	1461	15:46:44	379671	5339940	
			1616	15:48:01	378886	5339985	0.786
TRAVERSE	492	L1549232	1616	15:48:50	378848	5340187	
			1781	15:50:12	379867	5340219	1.020
TRAVERSE	491	L1549132	1781	15:50:38	379972	5340351	
			1921	15:51:48	378835	5340390	1.138
TRAVERSE	490	L1549032	1921	15:52:35	378883	5340592	
			2051	15:53:40	379880	5340659	0.999

TRAVERSE	489	L1548932	2051	15:53:54	379891	5340761		
			2081	15:54:09	379722	5340865	0.198	54
		scrub						
TRAVERSE	489	L1548933	2081	15:55:43	378821	5340794		
			2191	15:56:38	379816	5340788	0.995	22
PER.ALTB	3	C1500336	2191	15:57:23	379359	5340730		
			2331	15:58:33	377278	5340060	2.186	280
TRAVERSE	487	L1548733	2331	16:00:13	378746	5341188		
			2576	16:02:15	380589	5341221	1.843	67
TRAVERSE	486	L1548633	2576	16:02:37	380675	5341346		
			2781	16:04:20	378887	5341380	1.788	67
TRAVERSE	488	L1548832	2781	16:05:39	378846	5340991		
			2956	16:07:06	380353	5340955	1.507	136
TIE.LINE	25	T1502534	2956	16:09:01	380502	5342046		
			3371	16:12:28	379064	5338436	3.886	565
PER.ALTB	3	C1500337	3371	16:14:48	376154	5340896		
			3586	16:16:35	372652	5344258	4.855	430

FLIGHT LOG FOR FLIGHT 116 DOY 97 LocalTime 16:20:37 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1600341	0	16:57:35	346144	5390139	
			121	16:58:36	344406	5392607	3.019
TRAVERSE	225	L1622541	121	17:04:32	329431	5395578	
			146	17:04:44	328912	5395576	0.519
TRAVERSE	224	L1622441	146	17:06:01	328967	5395784	
			186	17:06:21	329750	5395784	0.783
TRAVERSE	223	L1622341	186	17:07:16	329885	5395976	
			236	17:07:41	328878	5395982	1.007
TRAVERSE	222	L1622241	236	17:08:16	328907	5396187	
			301	17:08:48	330200	5396185	1.293
TRAVERSE	221	L1622141	301	17:09:33	330327	5396374	
			376	17:10:11	328801	5396378	1.526
TRAVERSE	220	L1622041	376	17:10:43	328858	5396581	
			466	17:11:28	330597	5396589	1.739
PER.ALTB	3	C1600342	0	17:13:56	333352	5396459	
			111	17:14:51	332429	5396584	0.931
PER.ALTB	3	C1600343	111	17:15:23	331044	5396503	
			231	17:16:23	328455	5396004	2.637
TRAVERSE	219	L1621941	231	17:17:32	328830	5396786	
			351	17:18:32	330843	5396787	2.013
TRAVERSE	218	L1621841	351	17:19:21	330989	5396976	
			466	17:20:18	328758	5396981	2.231
TRAVERSE	217	L1621741	466	17:20:57	328787	5397185	
			591	17:22:00	331256	5397185	2.469
TRAVERSE	216	L1621641	591	17:22:49	331452	5397378	
			726	17:23:56	328744	5397379	2.708
TRAVERSE	215	L1621541	726	17:24:35	328750	5397582	
			876	17:25:50	331758	5397584	3.008
TRAVERSE	214	L1621441	876	17:26:42	331898	5397777	
			1036	17:28:02	328643	5397779	3.255
TRAVERSE	213	L1621341	1036	17:28:44	328718	5397987	
			1221	17:30:16	332159	5397987	3.441
TRAVERSE	212	L1621241	1221	17:31:02	332360	5398182	
			1441	17:32:52	328569	5398180	3.791
TRAVERSE	211	L1621141	1441	17:33:23	328660	5398380	
			1686	17:35:26	332614	5398388	3.954
TRAVERSE	210	L1621041	1686	17:36:08	332781	5398574	
			1926	17:38:08	328513	5398578	4.268
TRAVERSE	209	L1620941	1926	17:38:55	328603	5398785	
			2161	17:40:52	333107	5398784	4.504
TRAVERSE	208	L1620841	2161	17:41:26	333261	5398995	
			2421	17:43:36	328473	5398978	4.788
PER.ALTB	3	C1600344	2421	17:44:14	327132	5398958	
			2541	17:45:14	326528	5399279	0.684

TRAVERSE	207	L1620741	2541	17:46:14	328553	5399183		
			2806	17:48:26	333512	5399190	4.959	39
TRAVERSE	206	L1620641	2806	17:49:08	333707	5399380		
			3066	17:51:18	328413	5399378	5.294	65
TRAVERSE	205	L1620541	3066	17:52:02	328501	5399588		
			3346	17:54:22	333996	5399587	5.495	28
TRAVERSE	204	L1620441	3346	17:55:07	334151	5399773		
			3626	17:57:26	328387	5399775	5.764	27
TRAVERSE	203	L1620341	3626	17:58:08	328448	5399981		
			3921	18:00:35	334400	5399989	5.952	5
TRAVERSE	202	L1620241	3921	18:01:25	334577	5400176		
			4216	18:03:52	328388	5400176	6.189	27
TRAVERSE	201	L1620141	4216	18:04:40	328423	5400382		
			4551	18:07:27	334850	5400386	6.427	25
TRAVERSE	200	L1620041	4551	18:08:16	335042	5400580		
			4891	18:11:06	328301	5400578	6.741	23
PER.ALTB	3	C1600345	4891	18:11:32	327503	5400576		
			5011	18:12:32	326040	5400826	1.484	240
TRAVERSE	199	L1619941	5011	18:13:33	328363	5400785		
			5361	18:16:28	335317	5400784	6.954	6
TRAVERSE	198	L1619841	5361	18:17:13	335504	5400982		
			5721	18:20:13	328249	5400977	7.255	36
TRAVERSE	197	L1619741	5721	18:20:53	328309	5401186		
			6086	18:23:55	335763	5401181	7.454	55
TRAVERSE	196	L1619641	6086	18:24:58	335947	5401383		
			6511	18:28:31	328240	5401375	7.707	32
TRAVERSE	195	L1619541	6511	18:29:24	328257	5401587		
			6941	18:32:59	336201	5401586	7.944	46
TRAVERSE	194	L1619441	6941	18:33:57	336398	5401781		
			7411	18:37:52	328106	5401778	8.292	51
TRAVERSE	193	L1619341	7411	18:38:27	328222	5401984		
			7931	18:42:47	336705	5401986	8.483	90
PER.ALTB	3	C1600346	7931	18:43:23	337634	5401498		
			8081	18:44:38	338918	5398803	2.985	301
PSTQ.CAL	5	H1600541	8081	19:14:14	363090	5361296		
			8231	19:15:29	363090	5361296	0.000	150

FLIGHT LOG FOR FLIGHT 118 DOY 99 LocalTime 10:58:41 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A1800141	0 11:09:15	363092	5361293		
			226 11:11:08	363092	5361293	0.000	226
PER.ALTB	3	C1800341	226 12:14:25	315397	5410910		
			356 12:15:30	314695	5413309	2.500	261
TRAVERSE	110	L1811041	356 12:19:21	313987	5418584		
			426 12:19:56	315276	5418589	1.289	37
scrub							
PER.ALTB	3	C1800342	426 12:21:00	314263	5418431		
			556 12:22:05	312624	5419989	2.261	260
TRAVERSE	95	L1809541	556 12:25:08	312611	5421584		
			1711 12:34:46	333850	5421588	21.239	207
TRAVERSE	96	L1809641	1711 12:35:47	333846	5421381		
			2871 12:45:28	312675	5421377	21.171	249
PER.ALTB	3	C1800343	2871 12:46:33	310900	5421063		
			3001 12:47:38	310597	5421409	0.460	260
TRAVERSE	94	L1809441	3001 12:49:21	312499	5421785		
			4096 12:58:28	333726	5421788	21.227	215
PER.ALTB	3	C1800344	4096 12:59:10	334805	5421843		
			4216 13:00:10	335392	5422252	0.715	240
TRAVERSE	93	L1809341	4216 13:01:56	333612	5421985		
			5466 13:12:21	312282	5421978	21.330	215
TRAVERSE	92	L1809241	5466 13:13:25	312190	5422183		
			6566 13:22:35	333589	5422186	21.399	244
PER.ALTB	3	C1800345	6566 13:23:15	334754	5422227		
			6686 13:24:15	335608	5422648	0.952	240

TRAVERSE	91	L1809141	6686	13:26:37	333428	5422380		
			7881	13:36:35	311940	5422377	21.488	228
TRAVERSE	90	L1809041	7881	13:37:39	311930	5422586		
			8976	13:46:47	333445	5422585	21.515	318
PER.ALTB	3	C1800346	8976	13:47:40	334433	5422814		
			9096	13:48:40	334966	5423407	0.797	240
TRAVERSE	89	L1808941	9096	13:50:36	333297	5422774		
			10341	14:00:59	311686	5422779	21.611	343
PER.ALTB	3	C1800347	10341	14:02:29	311942	5421033		
			10466	14:03:33	313706	5418662	2.955	251
TRAVERSE	122	L1812243	10466	14:08:17	314756	5416184		
			11746	14:18:57	336016	5416188	21.260	382
PER.ALTB	3	C1800348	11746	14:19:46	337609	5415468		
			11881	14:20:53	340167	5413941	2.979	270

FLIGHT LOG FOR FLIGHT 119 DOY 99 LocalTime 14:39:18 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C1900341	0 16:09:02	348124	5401706		
			121 16:10:02	346355	5402225	1.844	242
TRAVERSE	192	L1919241	121 16:14:56	336851	5402174		
			851 16:21:01	328135	5402181	8.716	60
TRAVERSE	191	L1919141	851 16:21:48	328174	5402386		
			1496 16:27:10	337150	5402383	8.976	33
PER.ALTB	3	C1900342	1496 16:27:40	337899	5402366		
			1636 16:28:50	339764	5402198	1.873	280
PER.ALTB	3	C1900343	0 16:31:28	340478	5403305		
			116 16:32:25	341979	5403390	1.503	232
TRAVERSE	190	L1919041	116 16:34:37	337272	5402578		
			901 16:41:10	328055	5402576	9.217	109
TRAVERSE	189	L1918941	901 16:43:18	328119	5402787		
			1596 16:49:06	337594	5402788	9.475	151
TRAVERSE	188	L1918841	1596 16:49:44	337743	5402980		
			2406 16:56:30	328061	5402978	9.682	107
PER.ALTB	3	C1900344	2406 16:57:06	327035	5402901		
			2526 16:58:06	325174	5402647	1.878	240
TRAVERSE	187	L1918741	2526 16:59:46	328108	5403185		
			3256 17:05:51	338007	5403184	9.899	88
TRAVERSE	186	L1918641	3256 17:06:38	338184	5403383		
			4001 17:12:50	328008	5403381	10.176	86
TRAVERSE	185	L1918541	4001 17:13:32	328010	5403582		
			4641 17:18:52	338445	5403588	10.435	171
TRAVERSE	184	L1918441	4641 17:19:28	338648	5403798		
			5401 17:25:48	327962	5403777	10.686	160
PER.ALTB	3	C1900345	5401 17:26:28	326589	5403868		
			5521 17:27:28	324549	5403697	2.047	240
TRAVERSE	183	L1918341	5521 17:29:05	327970	5403986		
			6231 17:35:00	338942	5403985	10.972	152
TIE.LINE	18	T1901841	6231 17:36:35	339128	5404323		
			6451 17:38:24	339129	5408103	3.780	219
PER.ALTB	3	C1900346	6451 17:39:40	338581	5410604		
			6571 17:40:40	337652	5412521	2.130	240
TIE.LINE	17	T1901741	6571 17:42:17	337131	5412960		
			7256 17:48:00	337134	5402469	10.491	135
TIE.LINE	16	T1901641	7256 17:50:32	335128	5400753		
			8381 17:59:55	335130	5417991	17.238	140
PER.ALTB	3	C1900347	8381 18:00:41	334865	5419651		
			8511 18:01:46	334356	5422194	2.593	260
TRAVERSE	88	L1908841	8511 18:03:10	333216	5422977		
			9696 18:13:03	311579	5422983	21.637	321
TRAVERSE	87	L1908741	9696 18:13:38	311484	5423176		
			10736 18:22:18	333216	5423186	21.732	217
PER.ALTB	3	C1900348	10736 18:22:50	334289	5423497		
			10856 18:23:50	333347	5424609	1.457	241
TIE.LINE	15	T1901541	10856 18:25:02	333135	5422926		

			12296	18:37:02	333134	5398892	24.034	275
PER.ALTB	3	C1900349	12296	18:37:58	333109	5397106		
			12431	18:39:06	332719	5394288	2.845	271
PER.ALTB	3	C1900340	12431	18:49:32	355674	5373471		
			12551	18:50:32	357705	5371510	2.823	240
PST.TSTL	4	F1900441	12551	18:54:00	363527	5363468		
			12696	18:55:13	363093	5360920	2.585	18
PER.ALTB	3	Q1900341	12696	18:55:38	363064	5360020		
			12786	18:56:23	363027	5359463	0.558	180
PSTQ.CAL	5	H1900541	12786	19:04:36	363092	5361294		
			13356	19:09:21	363092	5361295	0.001	570

FLIGHT LOG FOR FLIGHT 120 DOY 101 LocalTime 10:21:45 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2000141	0 10:22:25	309065	5465695		
			11 10:22:30	309065	5465694	0.001	11
scrub							
PreQ.Cal	1	A2000142	11 10:51:40	309066	5465695		
			191 10:53:10	309066	5465696	0.001	180
scrub							
PreQ.Cal	1	A2000143	0 12:38:38	309066	5465696		
			166 12:40:01	309066	5465696	0.000	166
PER.ALTB	1	C2000341	166 13:38:00	304976	5452468		
			301 13:39:07	304819	5449262	3.210	270
TRAVERSE	1	L2000141	301 13:42:21	305203	5440476		
			316 13:42:28	305119	5440213	0.276	30
scrub							
TRAVERSE	2	L2000241	316 13:43:29	305008	5440186		
			1361 13:52:12	326320	5440187	21.312	175
PER.ALTB	3	C2000342	1361 13:52:51	327566	5440224		
			1491 13:53:56	328976	5440341	1.415	260
TRAVERSE	3	L2000341	1491 13:55:15	326340	5439979		
			2471 14:03:25	304957	5439978	21.383	204
PER.ALTB	3	C2000343	2471 14:03:59	303855	5439937		
			2596 14:05:01	302418	5439416	1.529	250
TRAVERSE	4	L2000441	2596 14:06:41	305189	5439782		
			3556 14:14:41	326509	5439788	21.320	195
TRAVERSE	5	L2000541	3556 14:15:19	326528	5439578		
			4561 14:23:42	304969	5439496	21.559	335
PER.ALTB	1	C2000344	4561 14:24:16	303816	5439527		
			4691 14:25:21	302536	5439032	1.372	260
PER.ALTB	3	C2000345	4691 14:30:13	304950	5443970		
			4816 14:31:15	305200	5441447	2.535	250
PST.TSTL	4	F2000441	4816 14:32:44	306323	5441277		
			5051 14:34:41	305969	5445994	4.730	239
PER.ALTB	1	C2000346	5051 14:35:42	305979	5448356		
			5101 14:36:07	306201	5449463	1.129	101
PER.ALTB	3	C2000347	5101 14:36:16	306322	5449886		
			5181 14:36:56	306905	5451704	1.909	161
PRE.TSTL	2	D2000241	5181 14:37:46	307580	5453462		
			5431 14:39:51	308690	5458539	5.197	253
PER.ALTB	3	C2000348	5431 14:40:49	308856	5460859		
			5556 14:41:51	308715	5463666	2.811	250

FLIGHT LOG FOR FLIGHT 121 DOY 101 LocalTime 15:51:56 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2100341	0 16:04:09	311132	5446400		
			121 16:05:09	311183	5443437	2.963	242
TIE.LINE	4	T2100441	121 16:06:17	311134	5440362		
			846 16:12:19	311136	5423740	16.622	179
PER.ALTB	3	C2100342	846 16:13:39	311125	5421424		
			951 16:14:31	311589	5420227	1.284	210
TRAVERSE	97	L2109741	951 16:16:40	312892	5421186		
			2046 16:25:48	334038	5421187	21.146	105
TRAVERSE	98	L2109841	2046 16:26:39	334002	5420980		
			3146 16:35:49	312960	5420977	21.042	165
PER.ALTB	3	C2100343	3146 16:36:32	311722	5421018		
			3271 16:37:35	310246	5420937	1.478	251
TRAVERSE	99	L2109941	3271 16:38:48	313203	5420782		
			4291 16:47:18	334137	5420787	20.934	179
TRAVERSE	100	L2110041	4291 16:48:02	334180	5420579		
			5336 16:56:45	313275	5420576	20.905	233
PER.ALTB	3	C2100344	5336 16:57:23	311998	5420635		
			5466 16:58:28	309994	5420732	2.006	260
TRAVERSE	101	L2110141	5466 17:00:10	313402	5420384		
			6526 17:09:00	334336	5420387	20.934	173
TRAVERSE	102	L2110241	6526 17:09:40	334306	5420180		
			7611 17:18:43	313350	5420178	20.956	178
TRAVERSE	103	L2110341	7611 17:19:37	313536	5419988		
			8616 17:28:00	334476	5419985	20.940	156
PER.ALTB	3	C2100345	8616 17:28:35	335636	5420040		
			8751 17:29:42	336866	5420106	1.232	270
TRAVERSE	104	L2110441	8751 17:30:53	334479	5419779		
			9271 17:35:13	326311	5419836	8.168	81
		scrub					
PER.ALTB	3	C2100346	9271 17:39:07	317922	5421527		
			9396 17:40:10	315393	5422222	2.623	251
TRAVERSE	86	L2108641	9396 17:43:14	311365	5423386		
			10341 17:51:07	333151	5423385	21.786	222
TRAVERSE	85	L2108541	10341 17:52:02	332954	5423580		
			11376 18:00:40	311120	5423581	21.834	230
TRAVERSE	84	L2108441	11376 18:01:21	311061	5423784		
			12316 18:09:11	332944	5423785	21.883	237
PER.ALTB	3	C2100347	12316 18:09:39	334050	5423794		
			12446 18:10:43	335480	5424158	1.476	260
TRAVERSE	83	L2108341	12446 18:13:04	332810	5423980		
			12796 18:15:59	325996	5423976	6.814	50
		scrub					

FLIGHT LOG FOR FLIGHT 121 DOY 101 LocalTime 18:17:44 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2100348	0 18:19:37	334553	5424479		
			121 18:20:37	336394	5424544	1.842	242
TRAVERSE	83	L2108342	121 18:22:58	332802	5423978		
			1191 18:31:53	310825	5423979	21.977	191
PER.ALTB	3	C2100349	1191 18:32:45	309216	5424940		
			1321 18:33:50	307749	5427226	2.716	256
PSTQ.CAL	5	H2100541	1321 18:57:09	309073	5465706		
			1341 18:57:18	309073	5465706	0.000	20
		scrub					
PSTQ.CAL	5	H2100542	1341 19:01:16	309073	5465706		
			1876 19:05:44	309073	5465705	0.001	535

FLIGHT LOG FOR FLIGHT 122 DOY 103 LocalTime 10:43:19 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2200141	0 10:55:12	309071	5465704		
			276 10:57:30	309071	5465704	0.000	276
			scrub				
PreQ.Cal	1	A2200142	0 11:15:39	309073	5465704		
			271 11:17:54	309073	5465704	0.000	271
PER.ALTB	3	C2200341	0 11:40:08	305183	5445070		
			146 11:41:21	304662	5442492	2.630	292
TRAVERSE	1	L2200142	146 11:43:48	305015	5440386		
			1101 11:51:46	326263	5440386	21.248	275
PER.ALTB	3	C2200342	1101 11:52:19	327478	5440286		
			1266 11:53:42	329145	5439394	1.891	331
TRAVERSE	6	L2200641	1266 11:55:13	326587	5439380		
			2251 12:03:26	305410	5439380	21.177	331
TRAVERSE	7	L2200741	2251 12:04:26	305611	5439185		
			3206 12:12:24	326805	5439188	21.194	366
PER.ALTB	3	C2200343	3206 12:12:40	327428	5439174		
			3341 12:13:47	329017	5439209	1.589	270
TRAVERSE	8	L2200841	3341 12:14:57	326758	5438981		
			4336 12:23:15	305674	5438980	21.084	370
TRAVERSE	9	L2200941	4336 12:24:26	305882	5438784		
			5311 12:32:34	326916	5438784	21.034	393
PER.ALTB	3	C2200344	5311 12:33:14	328167	5438901		
			5451 12:34:24	329354	5438716	1.201	280
TRAVERSE	10	L2201041	5451 12:35:45	326915	5438580		
			6481 12:44:20	305923	5438579	20.992	390
TRAVERSE	11	L2201141	6481 12:45:55	306172	5438386		
			7416 12:53:43	327086	5438386	20.914	375
PER.ALTB	3	C2200345	7416 12:54:04	327858	5438422		
			7556 12:55:14	329303	5438276	1.452	281
PER.ALTB	3	C2200346	7556 12:55:28	329581	5438185		
			7791 12:57:25	330750	5437519	1.345	470
TRAVERSE	12	L2201241	7791 12:59:23	327076	5438178		
			8816 13:07:56	306202	5438176	20.874	399
TRAVERSE	13	L2201341	8816 13:08:42	306468	5437985		
			9776 13:16:42	327245	5437986	20.777	387
PER.ALTB	3	C2200347	9776 13:17:39	328720	5438127		
			9906 13:18:44	329143	5437791	0.540	260
TRAVERSE	14	L2201441	9906 13:19:45	327262	5437780		
			10896 13:28:00	306537	5437780	20.725	387
TRAVERSE	15	L2201541	10896 13:28:47	306724	5437584		
			11836 13:36:37	327368	5437586	20.644	543
TRAVERSE	16	L2201641	11836 13:37:08	327434	5437357		
			12836 13:45:28	306656	5437379	20.778	566
PER.ALTB	3	C2200348	12836 13:46:02	305598	5437402		
			12961 13:47:04	304449	5437168	1.173	250
TRAVERSE	17	L2201741	12961 13:48:14	306738	5437187		
			13876 13:55:52	327539	5437185	20.801	480
TRAVERSE	18	L2201841	13876 13:56:18	327572	5436973		
			14866 14:04:33	306599	5436979	20.973	463
PER.ALTB	3	C2200349	14866 14:05:07	305839	5437738		
			15001 14:06:14	305984	5439484	1.752	270
PRE.TSTL	2	D2200241	15001 14:07:27	306303	5441507		
			15151 14:08:42	306069	5444757	3.258	152
PER.ALTB	3	C2200340	15151 14:11:11	306830	5452093		
			15301 14:12:26	307711	5455467	3.487	300

FLIGHT LOG FOR FLIGHT 123 DOY 103 LocalTime 15:05:22 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2300341	0 15:13:33	307804	5452709		
			141 15:14:43	307255	5449979	2.785	282
PER.ALTB	3	C2300342	141 15:18:04	306542	5442070		
			266 15:19:06	306018	5439704	2.423	250
TRAVERSE	19	L2301941	266 15:21:23	306721	5436787		
			1221 15:29:21	327761	5436781	21.040	453
TRAVERSE	20	L2302041	1221 15:29:54	327747	5436577		
			2221 15:38:14	306660	5436576	21.087	426
PER.ALTB	3	C2300343	2221 15:38:48	305541	5436614		
			2346 15:39:50	304656	5436484	0.894	250
TRAVERSE	21	L2302141	2346 15:40:55	306750	5436387		
			3331 15:49:08	327889	5436387	21.139	445
TRAVERSE	22	L2302241	3331 15:49:39	327906	5436180		
			4406 15:58:37	306633	5436178	21.273	396
PER.ALTB	3	C2300344	4406 15:59:17	305380	5436157		
			4531 16:00:19	305243	5435819	0.365	250
TRAVERSE	23	L2302341	4531 16:01:19	306738	5435987		
			5526 16:09:37	328050	5435983	21.312	424
TRAVERSE	24	L2302441	5526 16:10:09	328041	5435780		
			6596 16:19:04	306684	5435776	21.357	307
PER.ALTB	3	C2300345	6596 16:19:40	305574	5435724		
			6726 16:20:45	305069	5435323	0.645	260
TRAVERSE	25	L2302541	6726 16:21:46	306714	5435583		
			7761 16:30:24	328203	5435583	21.489	435
TRAVERSE	26	L2302641	7761 16:30:59	328229	5435379		
			8876 16:40:17	306609	5435378	21.620	393
TRAVERSE	27	L2302741	8876 16:40:55	306738	5435185		
			9686 16:47:40	324972	5435188	18.234	342
Humm drop out							
TRAVERSE	28	L2302841	9686 16:48:45	326788	5435125		
			9706 16:49:03	326185	5435133	0.603	81
scrub							
PER.ALTB	3	C2300346	0 16:52:18	317294	5435295		
			146 16:53:31	314666	5435345	2.628	292
PER.ALTB	3	C2300347	146 16:54:29	314894	5435125		
Null here			156 16:54:34	314962	5435129	0.068	20
scrub							
PER.ALTB	3	C2300348	156 16:54:43	315095	5435135		
			271 16:55:40	315640	5435128	0.545	230
TRAVERSE	27	L2302742	271 16:57:34	317791	5435166		
			276 16:57:36	317822	5435167	0.031	7
scrub							
TRAVERSE	27	L2302743	276 16:57:45	318047	5435177		
			796 17:02:06	328483	5435183	10.436	304
patch to L2302741							
TRAVERSE	28	L2302842	796 17:02:39	328393	5434980		
			1866 17:11:34	306651	5434977	21.742	298
PER.ALTB	3	C2300349	1866 17:12:01	305786	5434998		
			1991 17:13:04	305216	5434830	0.594	250
TRAVERSE	29	L2302941	1991 17:13:50	306722	5434786		
			2996 17:22:13	328536	5434786	21.814	412
TRAVERSE	30	L2303041	2996 17:22:40	328540	5434583		
			4056 17:31:30	306639	5434581	21.901	440
TRAVERSE	31	L2303141	4056 17:32:25	306735	5434385		
			5161 17:41:38	328688	5434383	21.953	491
PER.ALTB	3	C2300340	5161 17:42:24	329982	5434893		
			5306 17:43:36	328965	5437927	3.200	290
PSTQ.CAL	5	H2300541	5306 18:04:18	309073	5465705		
			5526 18:06:08	309073	5465706	0.001	220

FLIGHT LOG FOR FLIGHT 124 DOY 104 LocalTime 08:06:59 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2400141	0 09:29:18	309073	5465705		
			276 09:31:37	309073	5465705	0.000	276
PER.ALTB	3	C2400341	276 10:08:30	313148	5446705		
			406 10:09:35	313271	5444221	2.487	260
TIE.LINE	5	T2400541	406 10:11:10	313136	5440348		
			1396 10:19:25	313133	5420949	19.399	691
PER.ALTB	3	C2400342	1396 10:21:45	314933	5416297		
			1526 10:22:50	316487	5414335	2.503	260
TRAVERSE	182	L2418241	1526 10:29:04	327943	5404182		
			2331 10:35:47	339118	5404185	11.175	144
TRAVERSE	181	L2418141	2331 10:36:27	339326	5404398		
			3106 10:42:55	327876	5404379	11.450	233
PER.ALTB	3	C2400343	3106 10:43:31	326751	5404217		
			3231 10:44:33	325385	5404054	1.376	250
TRAVERSE	180	L2418041	3231 10:45:45	327900	5404585		
			4016 10:52:18	339634	5404583	11.734	192
TRAVERSE	179	L2417941	4016 10:52:48	339772	5404785		
			4761 10:59:01	327774	5404776	11.998	368
TRAVERSE	178	L2417841	4761 10:59:49	328019	5404988		
			5541 11:06:19	340037	5404985	12.018	159
PER.ALTB	3	C2400344	5541 11:06:53	340806	5405030		
			5661 11:07:53	342287	5405161	1.487	240
PER.ALTB	3	C2400345	5661 11:08:50	343020	5404822		
			5781 11:09:50	341823	5404821	1.197	240
TRAVERSE	177	L2417741	5781 11:11:13	339929	5405039		
scrub			5806 11:11:25	339806	5405134	0.155	52
TRAVERSE	177	L2417742	5806 11:11:39	339697	5405182		
			6546 11:17:49	327759	5405180	11.938	149
TRAVERSE	176	L2417641	6546 11:18:34	327805	5405382		
			7361 11:25:21	340286	5405385	12.481	225
TRAVERSE	174	L2417441	7361 11:26:24	340138	5405782		
			8056 11:32:11	327723	5405779	12.415	283
PER.ALTB	3	C2400346	8056 11:32:47	326344	5405726		
			8181 11:33:49	324773	5405347	1.616	250
TRAVERSE	175	L2417541	8181 11:35:26	327799	5405582		
			8941 11:41:46	340275	5405584	12.476	181
TRAVERSE	173	L2417341	8941 11:42:49	340029	5405981		
			9671 11:48:54	327669	5405978	12.360	190
TRAVERSE	172	L2417241	9671 11:49:45	327721	5406181		
			10046 11:52:52	333320	5406151	5.599	38
scrub Humm Drop Out							
PER.ALTB	3	C2400347	10046 11:55:14	327197	5405904		
			10101 11:55:41	326190	5405915	1.007	110
PER.ALTB	3	C2400348	10101 11:56:35	324684	5406087		
			10221 11:57:35	323884	5406390	0.855	240
TRAVERSE	172	L2417242	10221 11:59:21	327729	5406186		
			11026 12:06:04	340036	5406182	12.307	166
TRAVERSE	171	L2417141	11026 12:07:02	339869	5406381		
			11771 12:13:15	327647	5406379	12.222	146
PER.ALTB	3	C2400349	11771 12:13:52	326429	5406348		
			11891 12:14:52	324709	5406187	1.728	240
TRAVERSE	170	L2417041	11891 12:16:36	327674	5406582		
			12731 12:23:36	339884	5406583	12.210	164
TRAVERSE	169	L2416941	12731 12:24:33	339720	5406780		
			13436 12:30:26	327501	5406779	12.219	241
TRAVERSE	168	L2416841	13436 12:31:07	327606	5406982		
			14271 12:38:04	339749	5406984	12.143	123
PER.ALTB	3	C2400340	14271 12:38:40	340396	5406977		
			14411 12:39:50	341020	5407211	0.666	280
TRAVERSE	167	L2416741	14411 12:45:25	350733	5409524		
			14416 12:45:28	350840	5409500	0.110	13
PER.ALTB	3	E2400341	14416 12:45:43	351479	5409242		
			14541 12:46:45	353048	5406775	2.924	250

FLIGHT LOG FOR FLIGHT 125 DOY 104 LocalTime 13:20:43 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2500341	0 13:22:54	346941	5403073		
			111 13:23:49	344607	5404484	2.727	222
TRAVERSE	167	L2516742	111 13:26:44	339577	5407178		
			1166 13:35:32	327526	5407179	12.051	181
TRAVERSE	166	L2516641	1166 13:36:15	327584	5407384		
			2101 13:44:03	339538	5407385	11.954	93
PER.ALTB	3	C2500342	2101 13:44:40	340376	5407362		
			2226 13:45:42	341049	5407202	0.692	250
TRAVERSE	165	L2516541	2226 13:47:10	339393	5407581		
			3136 13:54:45	327495	5407580	11.898	106
TRAVERSE	164	L2516441	3136 13:55:34	327515	5407785		
			4151 14:04:02	339382	5407783	11.867	178
TRAVERSE	163	L2516341	4151 14:04:56	339247	5407983		
scrub			4501 14:07:51	334539	5407997	4.708	78
TRAVERSE	162	L2516241	4501 14:07:58	334566	5408064		
scrub			4526 14:08:10	334903	5408120	0.342	52
PER.ALTB	3	E2500341	0 14:09:36	337674	5408401		
			131 14:10:41	340246	5408179	2.582	263
TRAVERSE	163	L2516342	131 14:12:28	339248	5407979		
			966 14:19:25	327388	5407976	11.860	148
TRAVERSE	162	L2516242	966 14:20:06	327485	5408183		
			1876 14:27:41	339196	5408184	11.711	120
PER.ALTB	3	C2500343	0 14:29:57	341786	5407723		
			131 14:31:02	341660	5408358	0.647	262
TRAVERSE	161	L2516141	131 14:32:25	339091	5408381		
			1061 14:40:10	327342	5408377	11.749	197
TRAVERSE	160	L2516041	1061 14:40:52	327427	5408583		
			2071 14:49:17	339075	5408580	11.648	128
TRAVERSE	159	L2515941	2071 14:50:03	338931	5408779		
			2956 14:57:26	327274	5408777	11.657	157
PER.ALTB	3	C2500344	2956 14:57:54	326371	5408713		
			3076 14:58:54	324453	5408233	1.977	240
TRAVERSE	158	L2515841	3076 15:01:11	327401	5408983		
			3966 15:08:36	338926	5408982	11.525	56
TRAVERSE	157	L2515741	3966 15:09:27	338751	5409179		
			4731 15:15:49	327283	5409181	11.468	97
TRAVERSE	156	L2515641	4731 15:16:25	327338	5409383		
			5481 15:22:40	338755	5409383	11.417	60
PER.ALTB	3	C2500345	5481 15:23:11	339687	5409417		
			5606 15:24:13	340606	5409733	0.972	250
TRAVERSE	155	L2515541	5606 15:25:18	338597	5409577		
			6261 15:30:46	327151	5409581	11.446	62
TRAVERSE	154	L2515441	6261 15:31:25	327264	5409784		
			7031 15:37:50	338588	5409783	11.324	37
TRAVERSE	153	L2515341	7031 15:38:39	338418	5409975		
			7656 15:43:52	327213	5409979	11.205	81
PER.ALTB	3	C2500346	7656 15:44:24	326301	5409986		
			7776 15:45:24	325055	5410095	1.251	241
TRAVERSE	152	L2515241	7776 15:46:40	327225	5410182		
			8411 15:51:57	338414	5410183	11.189	42
TRAVERSE	151	L2515141	8411 15:52:38	338278	5410379		
			8981 15:57:23	327156	5410381	11.122	56
TRAVERSE	150	L2515041	8981 15:58:00	327157	5410584		
			9596 16:03:07	338247	5410581	11.090	47
PER.ALTB	3	C2500347	9596 16:03:36	339020	5410537		
			9726 16:04:41	339641	5410814	0.680	260
TRAVERSE	149	L2514941	9726 16:05:23	338100	5410783		
			10266 16:09:53	327094	5410776	11.006	94
TRAVERSE	148	L2514841	10266 16:10:25	327130	5410981		
scrub			10331 16:10:58	328160	5410984	1.030	3

PER.ALTB 3 C2500348 0 16:13:24 334288 5410548
 126 16:14:27 337403 5410442 3.117 253

FLIGHT LOG FOR FLIGHT 126 DOY 104 LocalTime 16:19:00 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	E2600341	0 16:41:11	345277	5404794		
			131 16:42:16	342936	5406776	3.067	262
TRAVERSE	148	L2614842	131 16:44:40	338051	5410973		
			686 16:49:17	327009	5410978	11.042	41
TRAVERSE	147	L2614741	686 16:49:56	327099	5411185		
			1281 16:54:54	337999	5411184	10.900	37
TRAVERSE	146	L2614641	1281 16:55:36	337876	5411380		
			1811 17:00:01	327001	5411379	10.875	94
PER.ALTB	3	C2600341	1811 17:00:33	326166	5411388		
			1936 17:01:35	325484	5411607	0.716	250
TIE.LINE	12	T2601241	1936 17:03:14	327131	5411686		
			3366 17:15:10	327131	5437881	26.195	379
PER.ALTB	3	C2600342	3366 17:15:53	325871	5438808		
			3491 17:16:55	322773	5438748	3.099	250
PST.TSTL	4	F2600441	3491 17:22:16	306353	5440693		
			3761 17:24:31	305944	5446469	5.790	0
PER.ALTB	3	C2600343	3761 17:25:20	305801	5448532		
			3901 17:26:30	306390	5451707	3.229	280
PSTQ.CAL	5	H2600541	0 17:43:16	309074	5465707		
			271 17:45:32	309074	5465708	0.001	271

FLIGHT LOG FOR FLIGHT 127 DOY 105 LocalTime 07:58:52 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2700141	0 09:58:34	309073	5465706		
			256 10:00:42	309074	5465707	0.001	256
PER.ALTB	3	C2700341	256 10:18:47	314786	5458159		
			366 10:19:42	316019	5456806	1.831	220
PER.ALTB	3	C2700342	366 10:25:03	322101	5446785		
			496 10:26:08	323814	5444985	2.485	260
TIE.LINE	10	T2701041	496 10:28:29	323174	5440395		
			1801 10:39:22	323135	5415947	24.448	584
PER.ALTB	3	C2700343	1801 10:40:06	323447	5414356		
			1921 10:41:06	324345	5412376	2.174	240
TRAVERSE	145	L2714541	1921 10:43:01	327043	5411587		
			2691 10:49:26	337826	5411584	10.783	130
PER.ALTB	3	C2700344	2691 10:50:36	339099	5411779		
			2811 10:51:36	340266	5411359	1.240	240
TRAVERSE	144	L2714441	2811 10:53:33	337703	5411780		
			3501 10:59:18	326988	5411782	10.715	114
TRAVERSE	143	L2714341	3501 11:00:00	327005	5411981		
			4216 11:05:58	337702	5411986	10.697	119
PER.ALTB	3	C2700345	4216 11:06:46	339049	5411961		
			4331 11:07:43	340292	5411829	1.250	230
TRAVERSE	142	L2714241	4331 11:09:13	337542	5412176		
			4951 11:14:23	326904	5412181	10.638	159
TRAVERSE	141	L2714141	4951 11:15:37	326939	5412385		
			5681 11:21:42	337520	5412387	10.581	187
TRAVERSE	140	L2714041	5681 11:22:27	337389	5412577		
			6291 11:27:32	326896	5412578	10.493	185
PER.ALTB	3	C2700346	6291 11:27:56	326172	5412463		
			6441 11:29:10	324464	5412410	1.709	300
PER.ALTB	3	C2700347	6441 11:29:48	323263	5412552		
			6571 11:30:54	321220	5412902	2.073	261
TRAVERSE	139	L2713941	6571 11:33:40	326898	5412786		
			7301 11:39:45	337353	5412785	10.455	29

TRAVERSE	138	L2713841	7301	11:40:30	337210	5412979		
			7841	11:45:00	326798	5412977	10.412	96
TRAVERSE	137	L2713741	7841	11:45:44	326854	5413183		
			8481	11:51:04	337198	5413183	10.344	35
TRAVERSE	136	L2713641	8481	11:51:48	337040	5413382		
			8981	11:55:58	326799	5413378	10.241	64
PER.ALTB	3	C2700348	8981	11:56:25	325914	5413257		
			9111	11:57:30	324510	5413394	1.411	260
TRAVERSE	135	L2713541	9111	11:58:42	326811	5413583		
			9736	12:03:55	337029	5413585	10.218	34
TRAVERSE	134	L2713441	9736	12:04:33	336892	5413774		
			10301	12:09:16	326745	5413778	10.147	58
TRAVERSE	133	L2713341	10301	12:10:12	326750	5413983		
			10916	12:15:20	336882	5413986	10.132	14
TRAVERSE	132	L2713241	10916	12:15:57	336728	5414180		
			11376	12:19:47	326659	5414179	10.069	47
TRAVERSE	131	L2713141	11376	12:20:31	326715	5414384		
Humm drop out			11666	12:22:56	331629	5414387	4.914	31
PER.ALTB	3	C2700349	0	12:25:45	337949	5414120		
			121	12:26:45	339125	5413746	1.234	242
TRAVERSE	131	L2713142	121	12:28:07	336650	5414380		
			611	12:32:12	326664	5414380	9.986	75
TRAVERSE	130	L2713041	611	12:33:02	326672	5414585		
			1171	12:37:42	336696	5414585	10.024	16
TRAVERSE	129	L2712941	1171	12:38:23	336500	5414780		
			1626	12:42:11	326626	5414776	9.874	61
TRAVERSE	128	L2712841	1626	12:42:52	326641	5414982		
			2166	12:47:22	336478	5414985	9.837	41
TRAVERSE	127	L2712741	2166	12:48:11	336332	5415175		
			2626	12:52:01	326532	5415179	9.800	103
TRAVERSE	126	L2712641	2626	12:52:39	326575	5415380		
			3186	12:57:19	336305	5415383	9.730	85
PER.ALTB	3	C2700340	3186	12:58:14	338167	5415086		
			3306	12:59:14	340466	5414254	2.445	241
TRAVERSE	125	L2712541	3306	12:59:21	340742	5414173		
			3471	13:00:44	344088	5413152	3.498	334

scrub

FLIGHT LOG FOR FLIGHT 128 DOY 105 LocalTime 13:42:43 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C2800341	0	13:44:22	352264	5407527	
			121	13:45:23	351369	5410028	2.656
PER.ALTB	3	C2800342	121	13:48:09	342979	5411527	
			236	13:49:06	340100	5411861	2.898
TRAVERSE	125	L2812542	236	13:51:33	336180	5415584	
			731	13:55:40	326507	5415577	9.673
TRAVERSE	124	L2812441	731	13:56:20	326531	5415783	
			1311	14:01:10	336169	5415783	9.638
PER.ALTB	3	C2800343	1311	14:01:51	337336	5415861	
			1431	14:02:52	337187	5416662	0.815
TRAVERSE	121	L2812141	1431	14:03:34	335833	5416377	
			2476	14:12:17	314625	5416383	21.208
TRAVERSE	120	L2812041	2476	14:13:02	314638	5416586	
			3631	14:22:40	335830	5416585	21.192
PER.ALTB	3	C2800344	3631	14:23:18	336710	5416573	
			3741	14:24:13	337451	5416681	0.749
PER.ALTB	3	C2800345	3741	14:24:49	337319	5416965	
			3851	14:25:44	336735	5416793	0.609
TRAVERSE	119	L2811941	3851	14:26:23	335713	5416779	
			4866	14:34:51	314509	5416777	21.204
TRAVERSE	118	L2811841	4866	14:35:39	314491	5416981	
			5976	14:44:54	335703	5416986	21.212
TRAVERSE	117	L2811741	5976	14:45:38	335535	5417180	
			7046	14:54:33	314342	5417179	21.193

PER.ALTB	3	C2800346	7046	14:55:08	313383	5417193		
			7156	14:56:03	311841	5417111	1.544	220
null 7K								
PER.ALTB	3	C2800347	7156	14:56:34	311874	5417571		
			7266	14:57:29	312530	5417592	0.656	221
TRAVERSE	116	L2811641	7266	14:58:26	314376	5417384		
			8416	15:08:01	335530	5417384	21.154	75
TRAVERSE	115	L2811541	8416	15:08:46	335388	5417581		
			9426	15:17:11	314256	5417579	21.132	88
TRAVERSE	114	L2811441	9426	15:17:53	314245	5417785		
			10501	15:26:51	335361	5417783	21.116	101
PER.ALTB	3	C2800348	10501	15:27:13	336061	5417769		
			10621	15:28:13	337232	5417643	1.178	240
TRAVERSE	113	L2811341	10621	15:29:20	335195	5417980		
			11646	15:37:53	314132	5417979	21.063	105
TRAVERSE	112	L2811241	11646	15:38:33	314101	5418178		
			12851	15:48:36	335205	5418184	21.104	146
Humm Drop out								
PER.ALTB	3	C2800349	0	15:52:37	339466	5415503		
			111	15:53:34	339321	5416124	0.638	223
TRAVERSE	123	L2812341	111	15:54:51	336007	5415981		
			596	15:58:53	326459	5415979	9.548	59
PER.ALTB	3	C2800340	596	15:59:41	325605	5415036		
			706	16:00:36	325174	5414951	0.439	220
TIE.LINE	11	T2801141	706	16:01:16	325133	5416020		
			1901	16:11:14	325129	5440417	24.397	400
PER.ALTB	3	Q2800341	1901	16:11:53	324225	5441209		
			2026	16:12:55	321256	5441229	2.969	250
PST.TSTL	4	F2800441	2026	16:18:22	306350	5440700		
			2316	16:20:47	305937	5446525	5.840	0
PER.ALTB	3	Q2800342	2316	16:21:55	304543	5449078		
			2436	16:22:55	303350	5451395	2.606	240
PSTQ.CAL	5	H2800541	2436	16:41:21	309074	5465707		
			2721	16:43:43	309074	5465707	0.000	285

FLIGHT LOG FOR FLIGHT 129 DOY 106 LocalTime 08:12:34 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A2900141	0 09:27:42	309074	5465706		
			196 09:29:20	309074	5465707	0.001	196
PER.ALTB	3	C2900341	0 09:53:20	314234	5447423		
			121 09:54:20	315557	5445082	2.689	242
TIE.LINE	6	T2900641	121 09:55:52	315137	5440336		
			1191 10:04:47	315134	5415925	24.411	460
PER.ALTB	3	C2900342	1191 10:05:27	314335	5415044		
			1316 10:06:30	312667	5416037	1.941	251
TRAVERSE	111	L2911141	1316 10:08:39	314048	5418385		
			2416 10:17:49	335137	5418384	21.089	220
PER.ALTB	3	C2900343	2416 10:18:25	336163	5418305		
			2541 10:19:27	337635	5418388	1.474	250
TRAVERSE	110	L2911042	2541 10:19:46	337648	5418589		
scrub			2546 10:19:48	337599	5418592	0.049	6
TRAVERSE	110	L2911043	2546 10:20:51	334969	5418579		
			3521 10:28:59	313938	5418580	21.031	252
TRAVERSE	109	L2910941	3521 10:29:49	313938	5418780		
scrub			3526 10:29:52	313961	5418767	0.026	6
TRAVERSE	109	L2910942	3526 10:31:02	313901	5418777		
			4616 10:40:07	334933	5418786	21.032	272
TRAVERSE	108	L2910841	4616 10:40:46	334787	5418980		
			5561 10:48:39	313796	5418976	20.991	251
PER.ALTB	3	C2900344	5561 10:49:14	312522	5418913		
			5686 10:50:16	311105	5418840	1.419	250
TRAVERSE	107	L2910741	5686 10:51:52	313784	5419173		
			6726 11:00:32	334788	5419186	21.004	258
TRAVERSE	106	L2910641	6726 11:01:14	334643	5419380		

			7651	11:08:57	313677	5419379	20.966	160
PER.ALTB	3	C2900345	7651	11:09:22	312833	5419359		
			7771	11:10:22	311235	5419046	1.628	240
PER.ALTB	3	C2900346	7771	11:11:02	309850	5418674		
			7886	11:11:59	310101	5419210	0.592	230 ?
TRAVERSE	105	L2910541	7886	11:13:21	313671	5419585		
			8896	11:21:46	334657	5419585	20.986	206
TRAVERSE	104	L2910442	8896	11:22:31	334495	5419782		
			9881	11:30:44	313474	5419777	21.021	240
PER.ALTB	3	C2900347	9881	11:31:41	311531	5419940		
			10001	11:32:41	310051	5421437	2.105	240
TRAVERSE	82	L2908241	10001	11:34:44	310786	5424186		
			10066	11:35:16	312220	5424182	1.434	6
scrub Humm Drop Out								
PER.ALTB	3	C2900348	0	11:38:22	307528	5423612		
			96	11:39:10	307647	5424108	0.510	193
TRAVERSE	82	L2908242	96	11:40:28	310795	5424184		
			1101	11:48:51	332807	5424187	22.012	208
TRAVERSE	81	L2908141	1101	11:49:41	332647	5424381		
			2066	11:57:43	310578	5424377	22.069	205
TRAVERSE	80	L2908041	2066	11:58:32	310517	5424586		
			3061	12:06:49	332657	5424588	22.140	191
PER.ALTB	3	C2900349	3061	12:07:32	334258	5424292		
			3186	12:08:34	336376	5422820	2.579	250
TRAVERSE	79	L2907941	3186	12:40:48	351124	5403410		
scrub			3196	12:40:52	351807	5408864	5.497	39

FLIGHT LOG FOR FLIGHT 130 DOY 106 LocalTime 12:41:17 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3000341	0	12:41:25	350852	5410644	
			126	12:42:28	348552	5412847	3.185
TRAVERSE	79	L3007942	126	12:49:13	332475	5424778	
			1136	12:57:39	310311	5424781	22.164
TRAVERSE	78	L3007841	1136	12:58:31	310233	5424981	
			2136	13:06:51	332474	5424987	22.241
PER.ALTB	3	C3000342	2136	13:07:22	333652	5424994	
			2331	13:08:59	334306	5425521	0.840
TRAVERSE	77	L3007741	2331	13:10:12	332308	5425181	
			3306	13:18:20	310042	5425177	22.266
PER.ALTB	3	C3000343	0	13:25:51	323056	5425522	
			91	13:26:36	323540	5425164	0.602
TRAVERSE	77	L3007742	91	13:28:51	320954	5425181	
			581	13:32:56	309863	5425176	11.091
TRAVERSE	76	L3007641	581	13:33:44	309971	5425384	
			1541	13:41:44	332313	5425385	22.342
TRAVERSE	75	L3007541	1541	13:42:28	332166	5425580	
			2526	13:50:41	309757	5425579	22.409
PER.ALTB	3	C3000344	2526	13:51:06	308847	5425570	
			2646	13:52:06	307440	5425605	1.407
TRAVERSE	74	L3007441	2646	13:53:19	309664	5425785	
			3611	14:01:22	332159	5425785	22.495
PER.ALTB	3	C3000345	3611	14:01:52	333137	5426143	
			3736	14:02:54	333318	5428042	1.908
TIE.LINE	14	T3001441	3736	14:04:28	331131	5427865	
			5291	14:17:26	331131	5397138	30.727
PER.ALTB	3	C3000346	5291	14:17:56	330652	5396265	
			5401	14:18:51	328746	5395844	1.952
TRAVERSE	192	L3019242	5401	14:22:09	328195	5402181	
			5861	14:25:59	336871	5402181	8.676
TRAVERSE	191	L3019142	5861	14:26:58	337070	5402387	
			6401	14:31:28	328088	5402383	8.982
TRAVERSE	190	L3019042	6401	14:32:20	328142	5402584	
			6871	14:36:15	337322	5402580	9.180
TRAVERSE	189	L3018942	6871	14:36:56	337507	5402785	
			7406	14:41:23	328004	5402778	9.503

PER.ALTB 3 C3000347 7406 14:43:15 331534 5402902
 7556 14:44:30 335358 5403152 3.832 301

FLIGHT LOG FOR FLIGHT 131 DOY 106 LocalTime 14:50:50 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3100341	0 15:08:06	345994	5401780		
			126 15:09:09	342827	5400722	3.339	252
TIE.LINE	13	T3101341	126 15:14:50	329131	5395405		
			2006 15:30:30	329127	5432967	37.562	381
PER.ALTB	3	C3100342	2006 15:31:17	330143	5432127		
			2136 15:32:22	332129	5429846	3.024	260
TRAVERSE	73	L3107341	2136 15:34:53	331992	5425980		
			2151 15:35:00	331695	5425990	0.297	8
scrub Humm Drop Out							
PER.ALTB	3	C3100343	0 15:40:06	336717	5427097		
			91 15:40:51	336622	5427742	0.652	182
TRAVERSE	73	L3107342	91 15:43:29	331999	5425981		
			1051 15:51:29	309470	5425979	22.529	95
TRAVERSE	72	L3107241	1051 15:52:22	309456	5426184		
			1921 15:59:37	322848	5426187	13.392	86
scrub Zdas lock up							
TRAVERSE	72	L3107242	1921 16:00:06	322848	5426187		
			1926 16:00:09	322848	5426187	0.000	7
scrub							
TRAVERSE	72	L3107243	0 16:04:39	331898	5426181		
			971 16:12:45	309400	5426178	22.498	73
PER.ALTB	3	C3100344	971 16:13:15	308297	5426186		
			1091 16:14:15	307069	5426508	1.270	240
TRAVERSE	71	L3107141	1091 16:16:06	309369	5426384		
			2046 16:24:04	331870	5426386	22.501	167
TRAVERSE	70	L3107041	2046 16:24:55	331740	5426582		
			3051 16:33:18	309227	5426578	22.513	151
PER.ALTB	3	C3100345	3051 16:33:50	308134	5427183		
			3186 16:34:57	306727	5430043	3.187	270
PST.TSTL	4	F3100441	3186 16:38:20	306347	5440733		
			3436 16:40:24	305936	5446563	5.844	0
PER.ALTB	3	C3100346	3436 16:41:12	305848	5448697		
			3556 16:42:12	306456	5451351	2.723	241
PSTQ.CAL	5	H3100541	3556 16:51:38	309075	5465707		
			3766 16:53:23	309074	5465706	0.001	210

FLIGHT LOG FOR FLIGHT 132 DOY 107 LocalTime 08:04:47 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3200141	0 09:15:25	309075	5465709		
			211 09:17:10	309075	5465709	0.000	211
PER.ALTB	3	C3200341	0 09:45:46	309183	5442300		
			121 09:46:46	308108	5442273	1.075	239
TIE.LINE	3	T3200341	121 09:48:43	309135	5440384		
			691 09:53:28	309136	5427080	13.304	189
PER.ALTB	3	C3200342	691 09:54:05	308516	5425981		
			806 09:55:02	307169	5426162	1.359	230
TRAVERSE	69	L3206941	806 09:56:20	309213	5426786		
			1866 10:05:10	331762	5426789	22.549	188
TRAVERSE	68	L3206841	1866 10:05:56	331588	5426980		
			2856 10:14:11	309050	5426978	22.538	186
PER.ALTB	3	C3200343	2856 10:14:43	307919	5426949		
			2976 10:15:43	306336	5426929	1.583	240
TRAVERSE	67	L3206741	2976 10:16:58	309049	5427186		
			3911 10:24:46	326817	5427182	17.768	139
scrub GPS out, ZDAS crash							

PER.ALTB	3	C3200344	0	10:26:59	333254	5427169		
			216	10:28:47	333109	5427551	0.409	432
TRAVERSE	66	L3206641	216	10:29:37	331442	5427379		
			1231	10:38:05	308914	5427379	22.528	190
PER.ALTB	3	C3200345	1231	10:38:48	307475	5428117		
			1356	10:39:50	305966	5430356	2.700	250
TRAVERSE	48	L3204841	1356	10:41:02	307549	5430987		
			2361	10:49:25	330055	5430984	22.506	288
TRAVERSE	49	L3204941	2361	10:50:02	330077	5430780		
			3346	10:58:15	307484	5430778	22.593	248
PER.ALTB	3	C3200346	3346	10:58:34	306856	5430772		
			3446	10:59:24	305728	5430657	1.134	200
PER.ALTB	3	C3200347	3446	10:59:55	305178	5430718		
			3561	11:00:52	304793	5430541	0.424	230
TRAVERSE	50	L3205041	3561	11:02:14	307688	5430585		
			4556	11:10:32	330197	5430585	22.509	252
TRAVERSE	51	L3205141	4556	11:11:09	330239	5430364		
			5551	11:19:27	307687	5430379	22.552	285
TRAVERSE	52	L3205241	5551	11:20:45	307832	5430184		
			6556	11:29:08	330398	5430183	22.566	259
PER.ALTB	3	C3200348	6556	11:29:41	331317	5430211		
			6581	11:30:01	331713	5430374	0.428	66
? Humm drop out								
PER.ALTB	3	C3200349	0	11:32:42	332953	5431056		
			21	11:32:53	333156	5430968	0.221	42
scrub								
PER.ALTB	3	E3200341	21	11:33:09	333389	5430742		
			21	11:33:09	333393	5430734	0.009	2
scrub								
PER.ALTB	3	E3200342	21	11:33:15	333442	5430649		
			121	11:34:05	332989	5430394	0.520	200
TRAVERSE	53	L3205341	121	11:35:31	330366	5429981		
			1156	11:44:09	307831	5429979	22.535	230
TRAVERSE	54	L3205441	1156	11:45:04	308022	5429783		
			2151	11:53:22	330515	5429784	22.493	214
TRAVERSE	55	L3205541	2151	11:53:57	330550	5429576		
			3151	12:02:18	308033	5429577	22.517	170
PER.ALTB	3	C3200340	3151	12:02:38	307391	5429581		
			3271	12:03:38	306879	5429438	0.532	240
TRAVERSE	56	L3205641	3271	12:04:28	308185	5429381		
			4246	12:12:35	330683	5429387	22.498	141
PER.ALTB	3	Q3200341	4246	12:13:28	330579	5431083		
			4386	12:14:38	328778	5433815	3.272	280

FLIGHT LOG FOR FLIGHT 133 DOY 107 LocalTime 13:25:29 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PER.ALTB	3	C3300341	0	13:29:00	307391	5458060	
			176	13:30:28	307291	5454461	3.600
TIE.LINE	2	T3300241	176	13:35:26	307133	5440343	
			526	13:38:21	307133	5432137	8.206
PER.ALTB	3	C3300342	526	13:39:08	307140	5430362	
			646	13:40:08	307076	5429334	1.030
TRAVERSE	57	L3305741	646	13:41:23	308237	5429180	
			1666	13:49:53	330751	5429182	22.514
TRAVERSE	58	L3305841	1666	13:50:27	330804	5428977	
			2741	13:59:25	308283	5428979	22.521
PER.ALTB	3	C3300343	2741	14:00:00	307342	5428969	
			2856	14:00:58	306383	5428928	0.960
TRAVERSE	59	L3305941	2856	14:02:06	308417	5428783	
			3906	14:10:51	330908	5428780	22.491
TRAVERSE	60	L3306041	3906	14:11:25	330962	5428578	
			4956	14:20:10	308422	5428580	22.540
TRAVERSE	61	L3306141	4956	14:20:59	308575	5428385	

			5941	14:29:12	331141	5428384	22.566	94
PER.ALTB	3	C3300344	5941	14:29:39	331998	5428413		
			6061	14:30:39	332775	5428306	0.784	240
TRAVERSE	62	L3306241	6061	14:33:38	331104	5428182		
			7096	14:42:16	308598	5428179	22.506	71
TRAVERSE	63	L3306341	7096	14:43:01	308711	5427980		
			8121	14:51:34	331299	5427980	22.588	129
TRAVERSE	64	L3306441	8121	14:52:15	331273	5427780		
			9161	15:00:55	308706	5427781	22.567	82
PER.ALTB	3	C3300345	9161	15:01:21	307772	5427810		
			9276	15:02:19	307173	5427552	0.652	231
TRAVERSE	65	L3306541	9276	15:03:12	308875	5427585		
			10331	15:12:00	331409	5427581	22.534	128
TRAVERSE	67	L3306742	10331	15:13:18	331505	5427181		
			11451	15:22:38	308921	5427181	22.584	129
PER.ALTB	3	C3300346	11451	15:23:05	307955	5427194		
			11581	15:24:10	306731	5428894	2.095	260
PER.ALTB	3	C3300347	11581	15:24:54	305906	5430155		
			11696	15:25:51	305146	5431360	1.425	230
TRAVERSE	47	L3304741	11696	15:27:42	307466	5431183		
Scrub			12681	15:35:55	327635	5431182	20.169	306
Humm Drop Out								
PER.ALTB	3	C3300348	0	15:45:21	322817	5430585		
			96	15:46:09	321919	5429889	1.136	192
TRAVERSE	47	L3304742	96	15:47:15	321877	5431189		
			591	15:51:23	330008	5431181	8.131	304
TRAVERSE	46	L3304641	591	15:52:10	329812	5431383		
			1681	16:01:15	307307	5431380	22.505	328
PER.ALTB	3	C3300349	1681	16:01:44	306642	5431737		
			1796	16:02:41	306889	5434245	2.520	230
TIE.LINE	1	T3300141	1796	16:05:06	305125	5439991		
			1816	16:05:16	305130	5440491	0.500	0
ZDAS crash__								
PER.ALTB	3	C3300340	0	16:07:14	306514	5444420		
			121	16:08:14	306926	5447644	3.250	242
PSTQ.CAL	5	H3300541	121	16:20:14	309074	5465706		
			386	16:22:26	309074	5465709	0.003	265

FLIGHT LOG FOR FLIGHT 134 DOY 109 LocalTime 10:47:17 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3400141	0 11:54:31	309074	5465705		
			261 11:56:41	309074	5465705	0.000	261
PER.ALTB	3	C3400341	0 12:11:44	304394	5439811		
			126 12:12:47	304778	5436783	3.052	252
TRAVERSE	45	L3404541	126 12:16:08	307278	5431581		
			1166 12:24:48	329824	5431583	22.546	312
TRAVERSE	44	L3404441	1166 12:25:38	329661	5431784		
			2201 12:34:16	307086	5431779	22.575	335
PER.ALTB	3	C3400342	2201 12:34:40	306278	5431752		
			2331 12:35:45	305023	5431692	1.256	260
TRAVERSE	43	L3404341	2331 12:36:48	307131	5431984		
			3341 12:45:13	329653	5431985	22.522	372
TRAVERSE	42	L3404241	3341 12:46:07	329504	5432182		
			4366 12:54:40	306987	5432179	22.517	404
PER.ALTB	3	C3400343	4366 12:55:03	306327	5432165		
			4486 12:56:03	304896	5432042	1.436	240
PER.ALTB	3	C3400344	4486 12:56:52	303927	5432181		
			4601 12:57:50	305100	5432274	1.177	231
TRAVERSE	41	L3404141	4601 12:58:51	306974	5432383		
			5601 13:07:11	329482	5432384	22.508	420
TRAVERSE	40	L3404041	5601 13:08:08	329330	5432579		
			6606 13:16:31	306824	5432581	22.506	454
TRAVERSE	39	L3403941	6606 13:17:03	306782	5432774		
			7596 13:25:18	329335	5432786	22.553	539

PER.ALTB	3	C3400345	7596	13:25:46	330231	5432812		
			7706	13:26:41	331362	5432942	1.138	221
PER.ALTB	3	C3400346	7706	13:27:15	332095	5433124		
			7826	13:28:15	331250	5433355	0.876	241
TRAVERSE	38	L3403841	7826	13:31:41	329194	5432982		
			8811	13:39:54	306630	5432976	22.564	504
TRAVERSE	37	L3403741	8811	13:41:04	306718	5433192		
			9826	13:49:32	329182	5433182	22.464	523
TRAVERSE	36	L3403641	9826	13:50:25	329007	5433381		
			10501	13:56:02	315879	5433377	13.128	369
TRAVERSE	35	L3403541	10501	13:56:18	315328	5433463		
			10506	13:56:20	315316	5433515	0.053	12
scrub Humm Drop Out								
PER.ALTB	3	C3400347	0	14:00:28	324495	5433632		
			101	14:01:19	324586	5432934	0.704	203
TRAVERSE	36	L3403642	101	14:02:19	322860	5433379		
			821	14:08:19	306412	5433380	16.448	263
TRAVERSE	35	L3403542	821	14:09:11	306740	5433583		
			1771	14:17:06	328996	5433580	22.256	511
TRAVERSE	34	L3403441	1771	14:17:47	328860	5433779		
			2731	14:25:47	306663	5433779	22.197	471
PER.ALTB	3	C3400348	2731	14:26:12	306094	5434248		
			2856	14:27:14	306395	5436539	2.311	250
PST.TSTL	4	F3400441	2856	14:28:41	306350	5440694		
			3111	14:30:48	305934	5446558	5.879	0
PER.ALTB	3	C3400349	3111	14:31:34	306071	5448621		
			3241	14:32:39	306736	5451788	3.236	260

FLIGHT LOG FOR FLIGHT 135 DOY 109 LocalTime 14:57:24 Area 4 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms	
PER.ALTB	3	C3500341	0	15:02:08	306604	5455167		
			126	15:03:11	305829	5452424	2.850	
PST.TSTL	4	F3500441	126	15:05:24	305949	5446457		
			386	15:07:34	306361	5440596	5.875	
PST.TSTL	4	F3500442	386	15:08:12	305479	5439839		
over water test			1036	15:13:37	293795	5437429	11.930	
PER.ALTB	3	C3500342	1036	15:16:35	300197	5433980		
			1056	15:16:45	300597	5433971	0.400	
scrub								
PER.ALTB	3	C3500343	1056	15:17:15	301608	5434010		
			1166	15:18:10	303808	5433876	2.204	
TRAVERSE	33	L3503341	1166	15:19:22	306725	5433984		
			2156	15:27:37	328869	5433982	22.144	
TRAVERSE	32	L3503241	2156	15:28:30	328695	5434183		
			3151	15:36:48	306595	5434177	22.100	
PER.ALTB	3	C3500344	3151	15:38:23	306257	5431166		
Scrub			3276	15:39:25	307316	5428596	2.780	
PER.ALTB	3	C3500345	3276	15:43:22	313010	5418740		
			3391	15:44:19	313830	5416251	2.621	
TIE.LINE	7	T3500741	0	15:47:21	317128	5415999		
			1026	15:55:54	317130	5440453	24.454	
PER.ALTB	3	C3500346	1026	15:56:19	317222	5441283		
			1151	15:57:21	317461	5441471	0.304	
TIE.LINE	8	T3500841	1151	15:59:06	319095	5440393		
			2286	16:08:34	319134	5418091	22.302	
Humm Drop Out								
PER.ALTB	3	C3500347	0	16:13:36	318982	5423814		
			96	16:14:24	319149	5424136	0.363	
TIE.LINE	8	T3500842	96	16:15:12	319134	5423344		
			511	16:18:39	319134	5415664	7.680	
PER.ALTB	3	C3500348	511	16:19:14	319115	5414506		
			631	16:20:14	319682	5412670	1.922	
TIE.LINE	9	T3500941	631	16:20:20	319882	5412578		
			646	16:20:28	320157	5412522	0.281	

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scrub
TIE.LINE 9 T3500942 646 16:22:22 321129 5415993
1751 16:31:35 321132 5440470 24.477 306
PER.ALTB 3 C3500349 1751 16:32:13 321194 5442038
1916 16:33:35 320413 5445961 4.000 330
PSTQ.CAL 5 H3500541 1916 16:45:05 309075 5465706
1946 16:45:20 309075 5465706 0.000 30
scrub
PSTQ.CAL 5 H3500542 1946 16:46:23 309075 5465706
1951 16:46:26 309075 5465706 0.000 5
scrub
PSTQ.CAL 5 H3500543 1951 16:46:44 309075 5465706
2166 16:48:31 309075 5465706 0.000 215

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FLIGHT LOG FOR FLIGHT 136 DOY 110 LocalTime 07:59:52 Area 8 Datum = WGS84

Line	File	Fid	Time	East	North	Len	Alarms
PreQ.Cal	1	A3600181	0 09:03:56	309075	5465705		
			171 09:05:22	309075	5465705	0.000	171
PER.ALTB	3	C3600381	171 10:28:23	431958	5414722		
			301 10:29:28	430474	5412316	2.827	130
TIE.LINE	1	T3600181	301 10:33:10	427330	5406783		
			846 10:37:43	417825	5406778	9.505	461
TIE.LINE	2	T3600281	846 10:38:43	417935	5406286		
			1366 10:43:03	427385	5406288	9.450	466
TIE.LINE	3	T3600381	1366 10:44:33	427319	5405784		
			1946 10:49:23	417828	5405786	9.491	553
PER.ALTB	3	C3600382	1946 10:50:02	416924	5405503		
			2071 10:51:04	416496	5404890	0.748	125
TIE.LINE	4	T3600481	2071 10:52:47	417913	5407186		
			2606 10:57:15	427345	5407184	9.432	514
PER.ALTB	3	C3600383	2606 10:58:23	428638	5407762		
			2736 10:59:28	428135	5408234	0.690	130
TRAVERSE	45	L3604581	2736 11:01:19	427014	5407393		
			2881 11:02:32	427013	5405555	1.838	157
TRAVERSE	44	L3604481	2881 11:03:15	426808	5405586		
			3036 11:04:32	426794	5407407	1.821	150
TRAVERSE	43	L3604381	3036 11:05:11	426623	5407401		
			3181 11:06:24	426608	5405531	1.870	145
TRAVERSE	42	L3604281	3181 11:07:07	426416	5405583		
			3371 11:08:42	426405	5407412	1.829	194
TRAVERSE	41	L3604181	3371 11:09:19	426211	5407400		
			3386 11:09:26	426210	5407304	0.096	16
scrub Humm drop out							
PER.ALTB	3	C3600384	0 11:12:00	425461	5408634		
			111 11:12:56	426820	5409080	1.430	111
PER.ALTB	3	C3600385	111 11:14:00	426396	5408256		
			206 11:14:47	426141	5407949	0.399	95
TRAVERSE	41	L3604182	206 11:15:28	426220	5407400		
			381 11:16:55	426210	5405543	1.857	175
TRAVERSE	40	L3604081	381 11:17:36	426014	5405603		
			516 11:18:43	426013	5407418	1.815	135
TRAVERSE	39	L3603981	516 11:19:28	425809	5407399		
			661 11:20:40	425813	5405528	1.871	147
TRAVERSE	38	L3603881	661 11:21:18	425614	5405603		
			786 11:22:20	425610	5407455	1.852	124
TRAVERSE	37	L3603781	786 11:23:04	425413	5407389		
			921 11:24:11	425409	5405549	1.840	127
TRAVERSE	36	L3603681	921 11:24:44	425213	5405580		
			1051 11:25:49	425214	5407430	1.850	130
TRAVERSE	35	L3603581	1051 11:26:38	425013	5407387		
			1206 11:27:55	425010	5405515	1.872	137
TRAVERSE	34	L3603481	1206 11:28:41	424809	5405587		
			1306 11:29:31	424814	5407424	1.837	117
TRAVERSE	33	L3603381	1306 11:30:13	424610	5407373		

			1416	11:31:08	424615	5405555	1.818	88
TRAVERSE	32	L3603281	1416	11:31:54	424410	5405583		
			1506	11:32:39	424413	5407466	1.883	90
TRAVERSE	31	L3603181	1506	11:33:24	424210	5407366		
			1611	11:34:16	424212	5405553	1.813	90
PER.ALTB	3	C3600386	1611	11:34:46	424472	5404736		
			1731	11:35:46	424687	5403718	1.040	120
TRAVERSE	30	L3603081	1731	11:37:24	424010	5405623		
			1811	11:38:04	424006	5407436	1.813	78
TRAVERSE	29	L3602981	1811	11:38:54	423812	5407371		
			1926	11:39:51	423809	5405495	1.876	126
TRAVERSE	28	L3602881	1926	11:40:29	423615	5405587		
			2021	11:41:17	423610	5407419	1.832	95
TRAVERSE	27	L3602781	2021	11:42:02	423410	5407388		
			2136	11:42:59	423410	5405556	1.832	110
TRAVERSE	26	L3602681	2136	11:43:32	423209	5405595		
			2221	11:44:14	423210	5407422	1.827	85
TRAVERSE	25	L3602581	2221	11:44:56	423014	5407389		
			2321	11:45:46	423009	5405510	1.879	95
TRAVERSE	24	L3602481	2321	11:46:24	422813	5405608		
			2401	11:47:04	422808	5407413	1.805	66
TRAVERSE	23	L3602381	2401	11:47:42	422612	5407388		
			2511	11:48:37	422614	5405557	1.831	131
TRAVERSE	22	L3602281	2511	11:49:25	422413	5405594		
			2596	11:50:07	422412	5407464	1.870	52
TRAVERSE	21	L3602181	2596	11:50:49	422211	5407375		
			2696	11:51:39	422211	5405542	1.833	51
TRAVERSE	20	L3602081	2696	11:52:17	422013	5405590		
			2781	11:53:00	422010	5407467	1.877	54
TRAVERSE	19	L3601981	2781	11:53:39	421812	5407365		
			2896	11:54:37	421809	5405550	1.815	124
TRAVERSE	18	L3601881	2896	11:55:18	421613	5405584		
			3011	11:56:16	421612	5407435	1.851	143
TRAVERSE	17	L3601781	3011	11:57:00	421415	5407377		
			3131	11:58:00	421409	5405496	1.881	109
PER.ALTB	3	C3600387	3131	11:58:31	421509	5404763		
			3246	11:59:29	421479	5404121	0.643	115
TRAVERSE	16	L3601681	3246	12:00:18	421209	5405583		
			3336	12:01:03	421214	5407440	1.857	87
TRAVERSE	15	L3601581	3336	12:01:43	421017	5407389		
			3436	12:02:33	421008	5405488	1.901	74
TRAVERSE	14	L3601481	3436	12:03:09	420808	5405586		
			3526	12:03:55	420813	5407419	1.833	66
TRAVERSE	13	L3601381	3526	12:04:36	420617	5407374		
			3656	12:05:41	420611	5405512	1.862	94
TRAVERSE	12	L3601281	3656	12:06:21	420409	5405576		
			3756	12:07:11	420413	5407424	1.848	92
TRAVERSE	11	L3601181	3756	12:08:04	420214	5407368		
			3881	12:09:07	420212	5405554	1.814	102
TRAVERSE	10	L3601081	3881	12:09:46	420001	5405579		
			3991	12:10:41	420006	5407456	1.877	112
TRAVERSE	9	L3600981	3991	12:11:26	419810	5407367		
			4111	12:12:27	419812	5405552	1.815	124
TRAVERSE	8	L3600881	4111	12:13:10	419614	5405571		
			4231	12:14:10	419612	5407491	1.920	120
TRAVERSE	7	L3600781	4231	12:14:52	419416	5407386		
			4366	12:16:00	419407	5405522	1.864	125
TRAVERSE	6	L3600681	4366	12:16:50	419200	5405582		
			4486	12:17:50	419215	5407479	1.897	123
TRAVERSE	5	L3600581	4486	12:18:51	419012	5407386		
			4596	12:19:46	419009	5405537	1.849	98
TRAVERSE	4	L3600481	4596	12:20:27	418814	5405609		
			4696	12:21:18	418810	5407426	1.817	54
PER.ALTB	3	C3600388	4696	12:22:15	418845	5408775		
			4816	12:23:15	418616	5408676	0.249	120
TRAVERSE	3	L3600381	4816	12:23:31	418787	5408886		
			4816	12:23:31	418787	5408886	0.000	2

scrub

TRAVERSE	3	L3600382	4816	12:24:26	418617	5407384		
			4956	12:25:36	418610	5405523	1.861	55
TRAVERSE	2	L3600281	4956	12:26:14	418411	5405585		
			5081	12:27:17	418412	5407411	1.826	76
TRAVERSE	1	L3600181	5081	12:28:14	418212	5407377		
			5211	12:29:19	418208	5405548	1.829	66
Humm Drop Out								
PER.ALTB	3	C3600311	0	12:31:05	421047	5407577		
			116	12:32:03	422221	5410081	2.766	116
TRAVERSE	89	L3608912	116	12:34:55	427713	5410270		
			851	12:41:03	427711	5397821	12.449	636
PER.ALTB	3	C3600312	851	12:41:44	426797	5396768		
			971	12:42:44	424305	5395923	2.631	120
TRAVERSE	32	L3603212	971	12:46:26	416316	5397046		
			1531	12:51:07	416314	5408059	11.013	448
TRAVERSE	31	L3603113	1531	12:52:10	416115	5407782		
			1851	12:54:50	416116	5402088	5.694	152
scrub Humm Drop Out								
PER.ALTB	3	C3600313	0	12:57:54	412930	5395428		
			111	12:58:50	412065	5394924	1.001	111
PER.ALTB	3	C3600314	111	13:21:06	414539	5395380		
			231	13:22:07	416012	5395310	1.475	120
TRAVERSE	31	L3603114	231	13:23:10	416114	5397069		
			821	13:28:05	416114	5407867	10.798	411
PER.ALTB	3	C3600315	821	13:28:59	416494	5409918		
			946	13:30:02	419078	5411389	2.973	125
PSTQ.CAL	5	H3600511	946	14:41:32	442876	5419058		
			1336	14:44:48	442876	5419058	0.000	392

HUMMINGBIRD CALIBRATION OF SENSORS



CALIBRATING THE COIL



CALIBRATION OF THE COAXIAL COIL

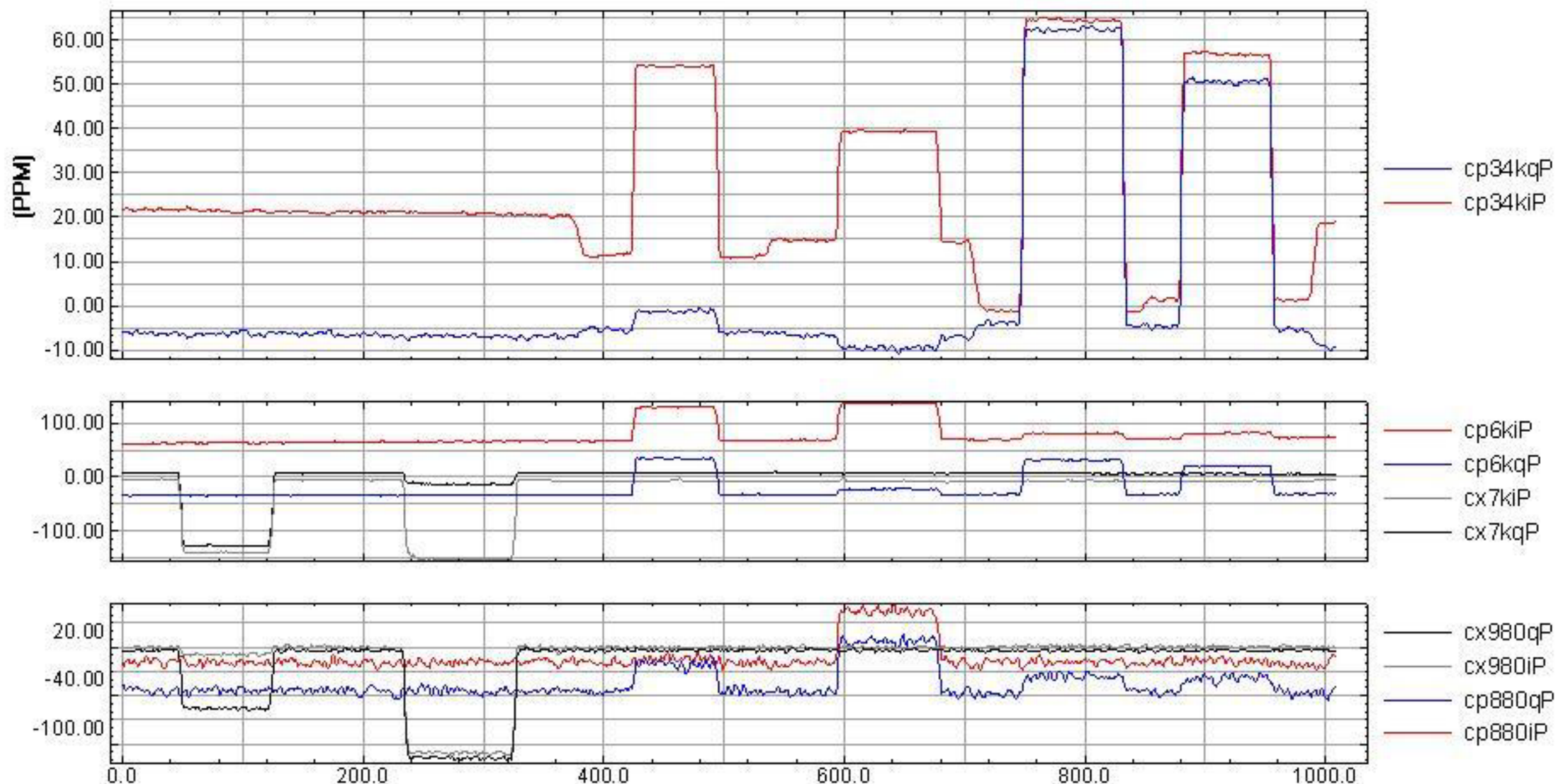


CALIBRATION OF THE COPLANAR COIL



Q Coil response test:

NO CORRECTION APPLIED



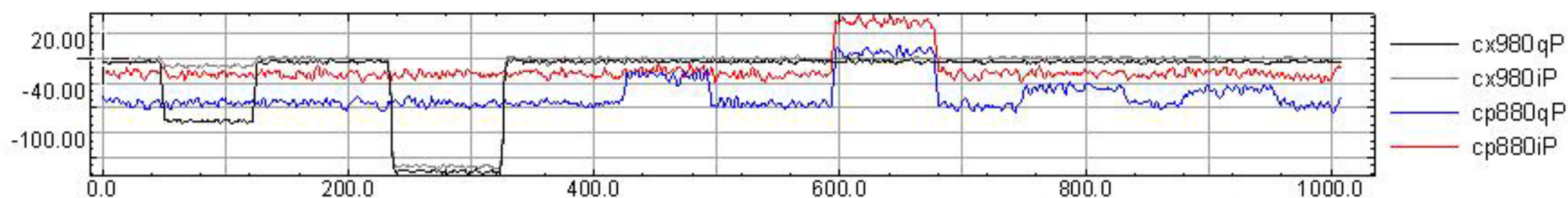
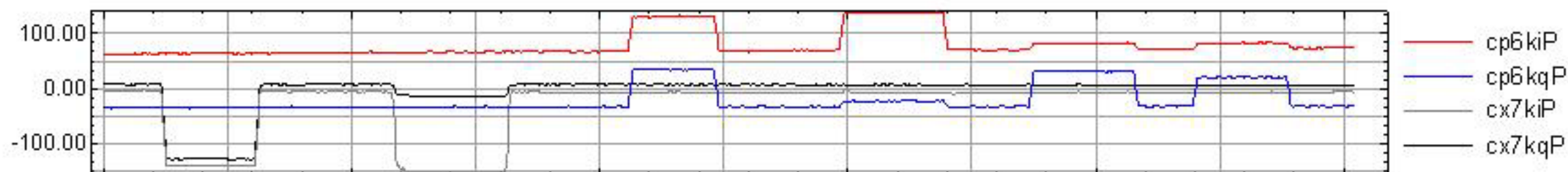
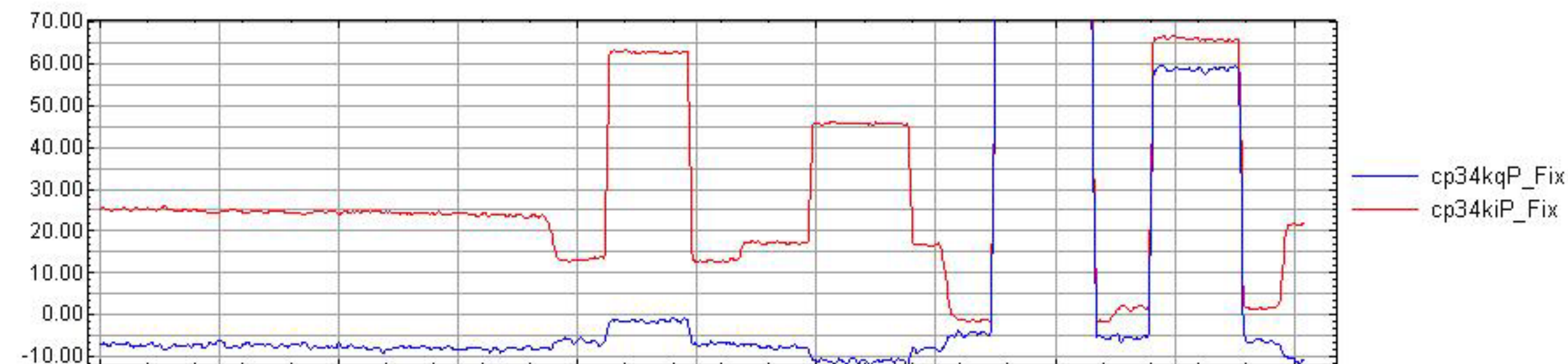
Frequency: **7K** **980** **6K** **880** **34K(1)** **34K(2)**

Incorrect
position
65 PPM

correct
position
56 PPM

Q Coil response test:

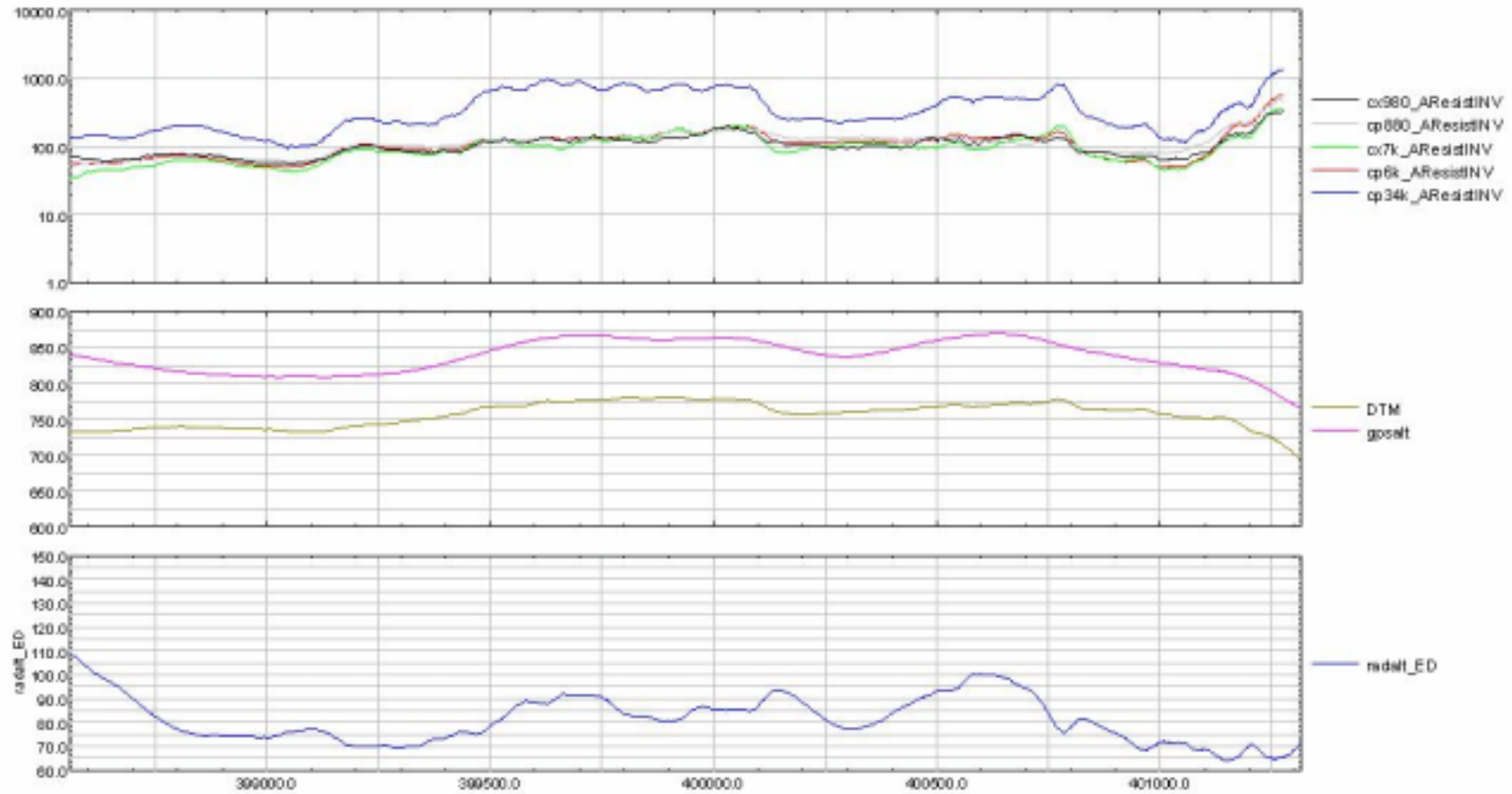
CORRECTION APPLIED



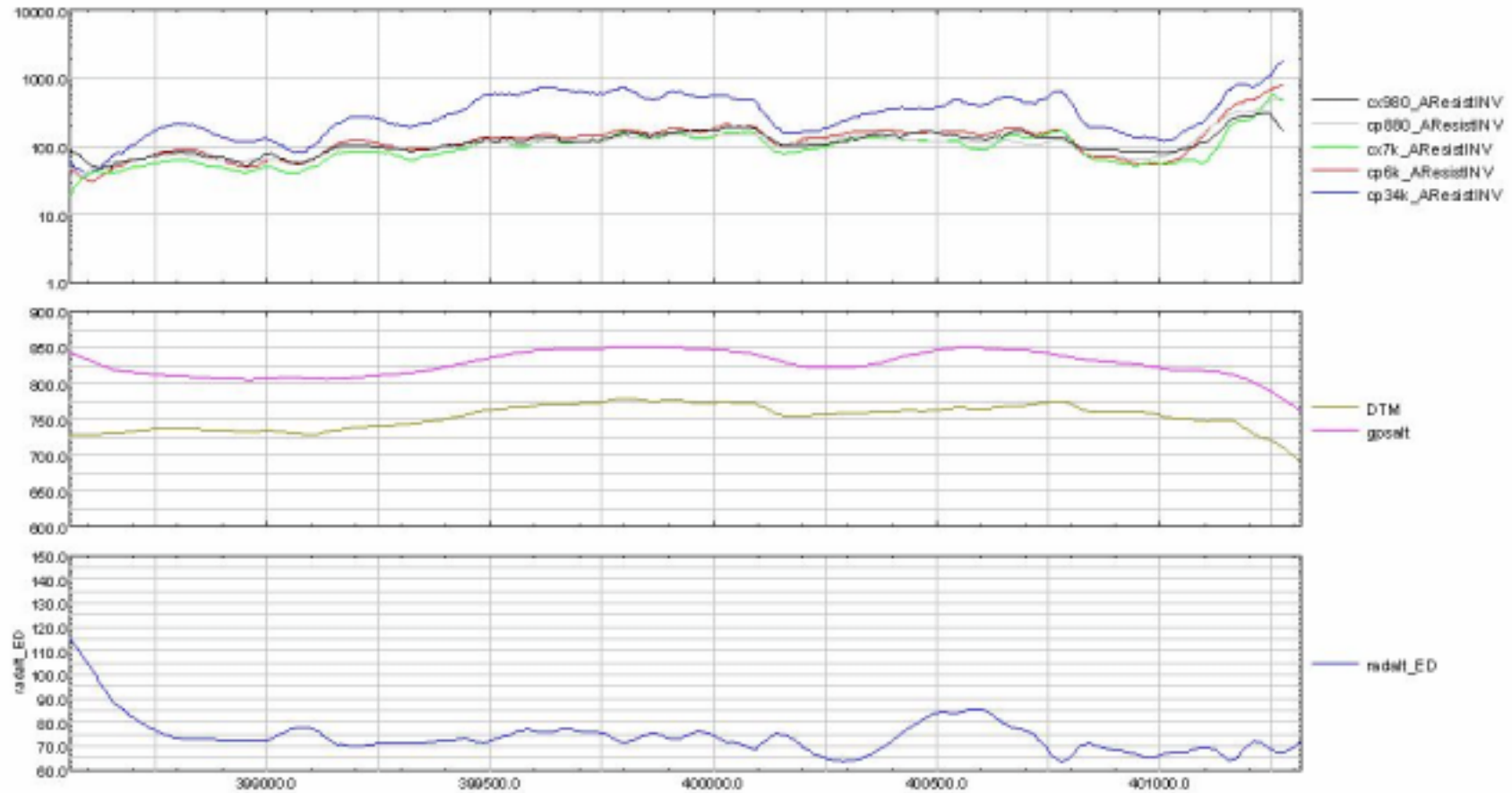
Frequency: **7K** **980** **6K** **880** **34K(1)** **34K(2)**

Incorrect position correct position
65 PPM

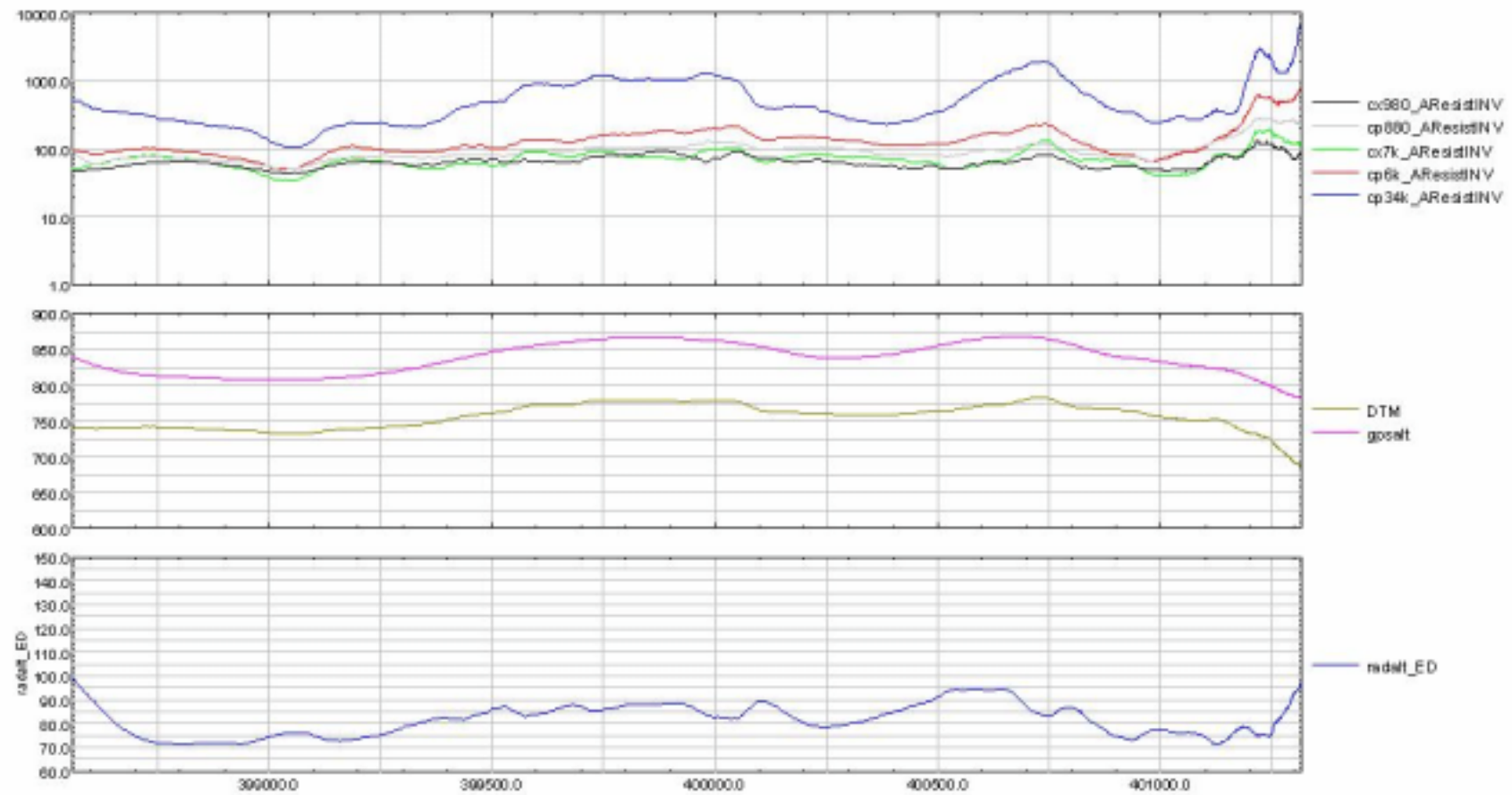
Area D Test Line Flt 07



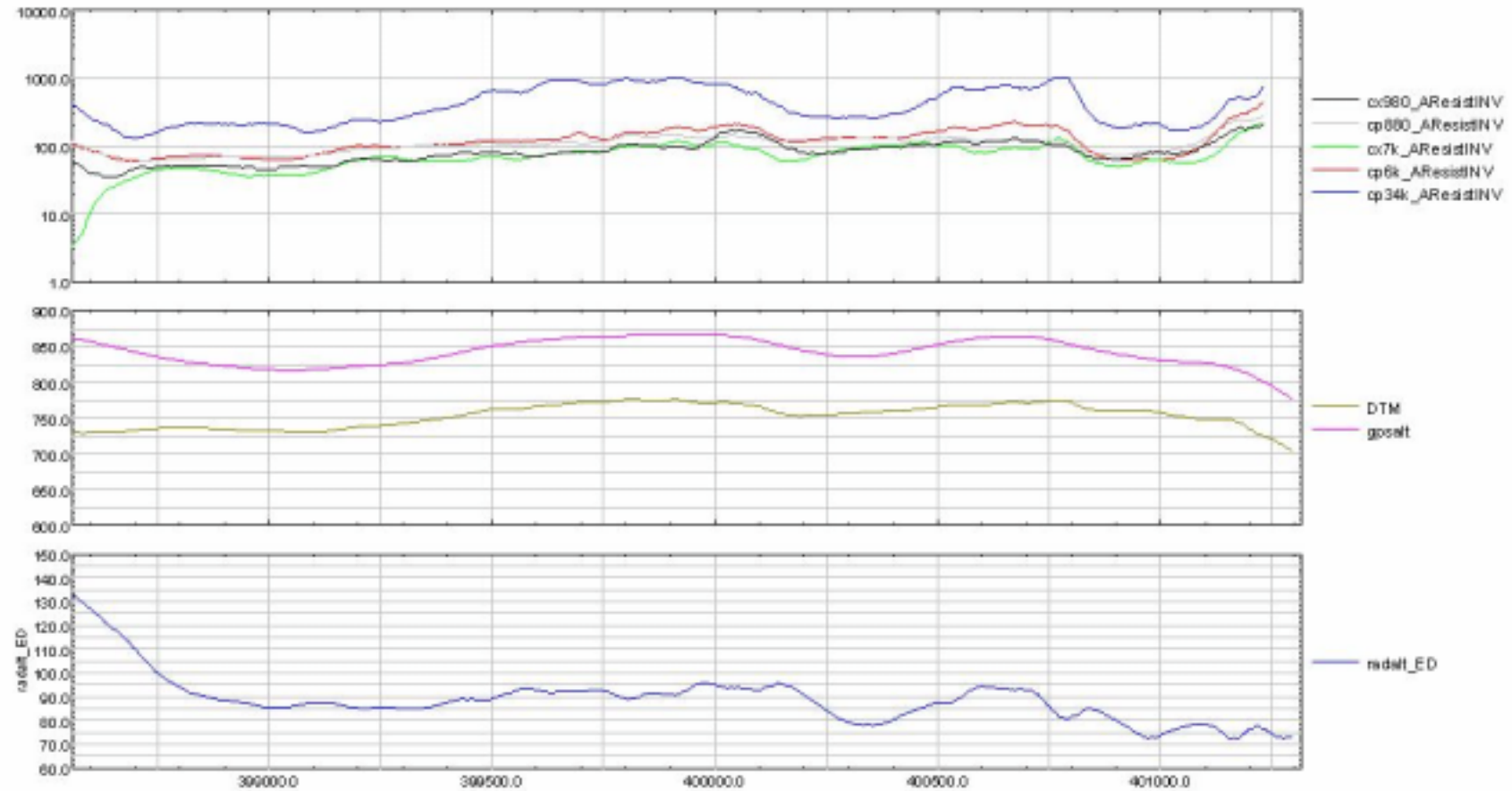
Area D Test Line Flt 08



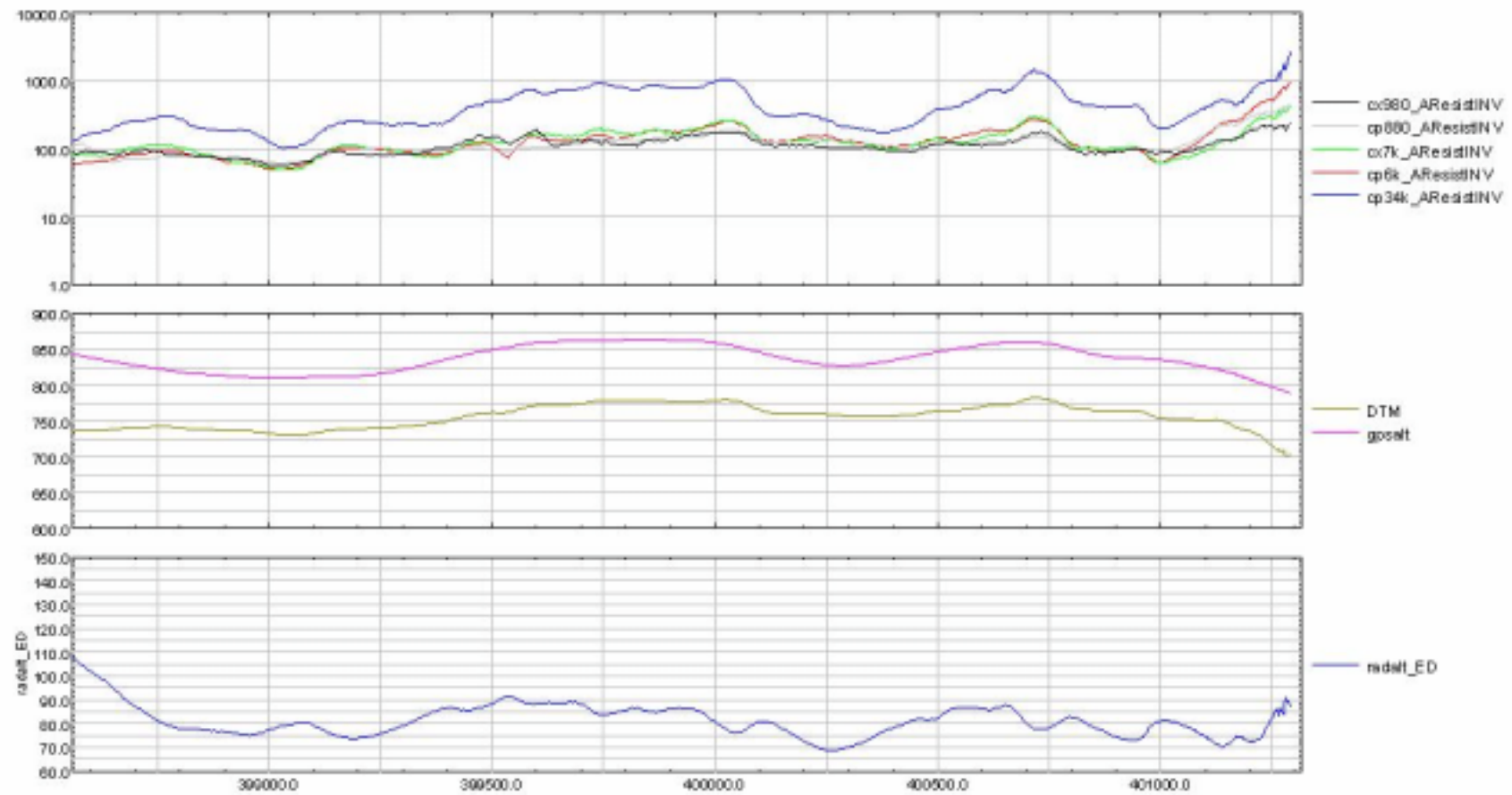
Area D Test Line Flt 09



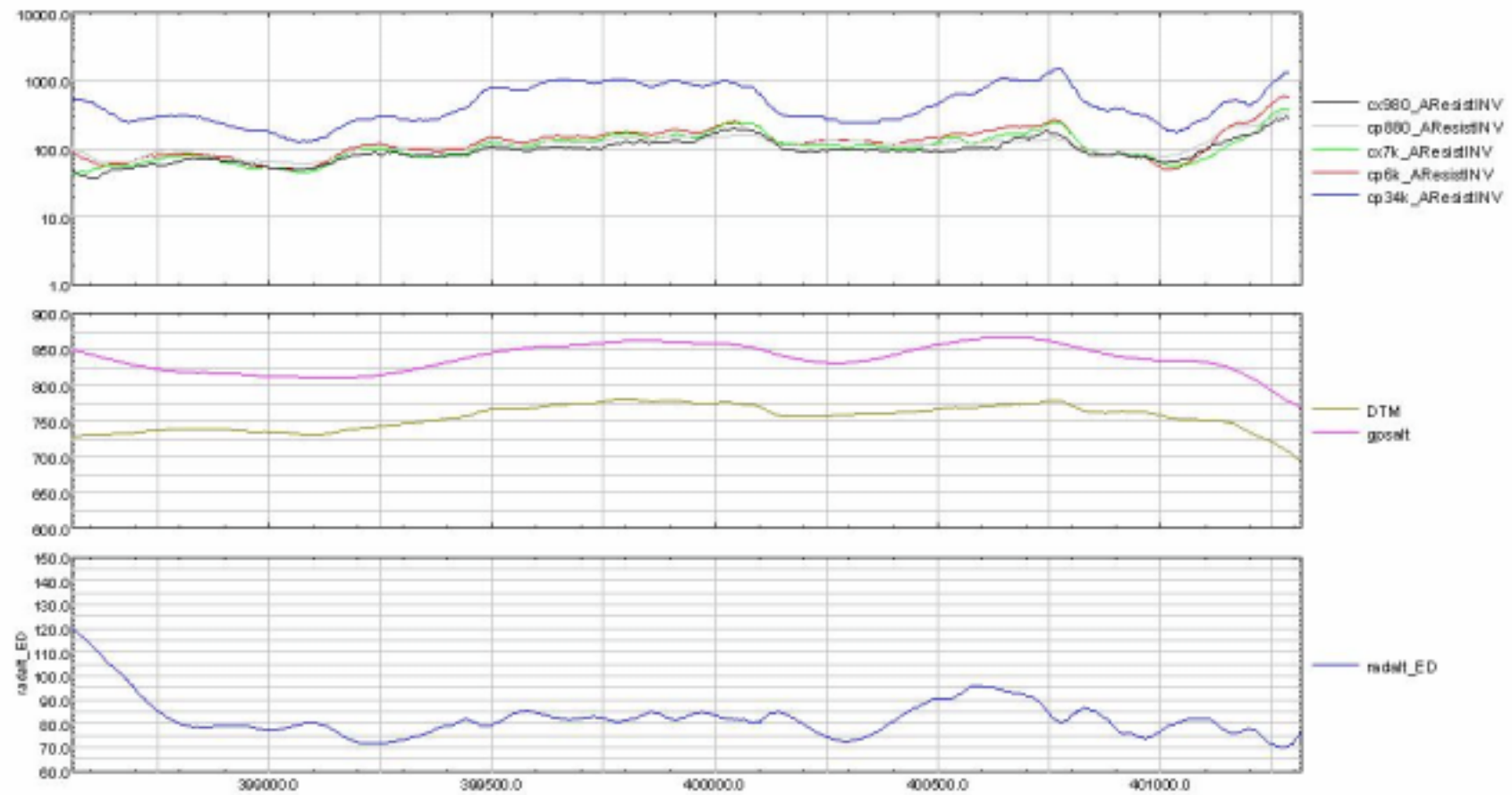
Area D Test Line Flt 10



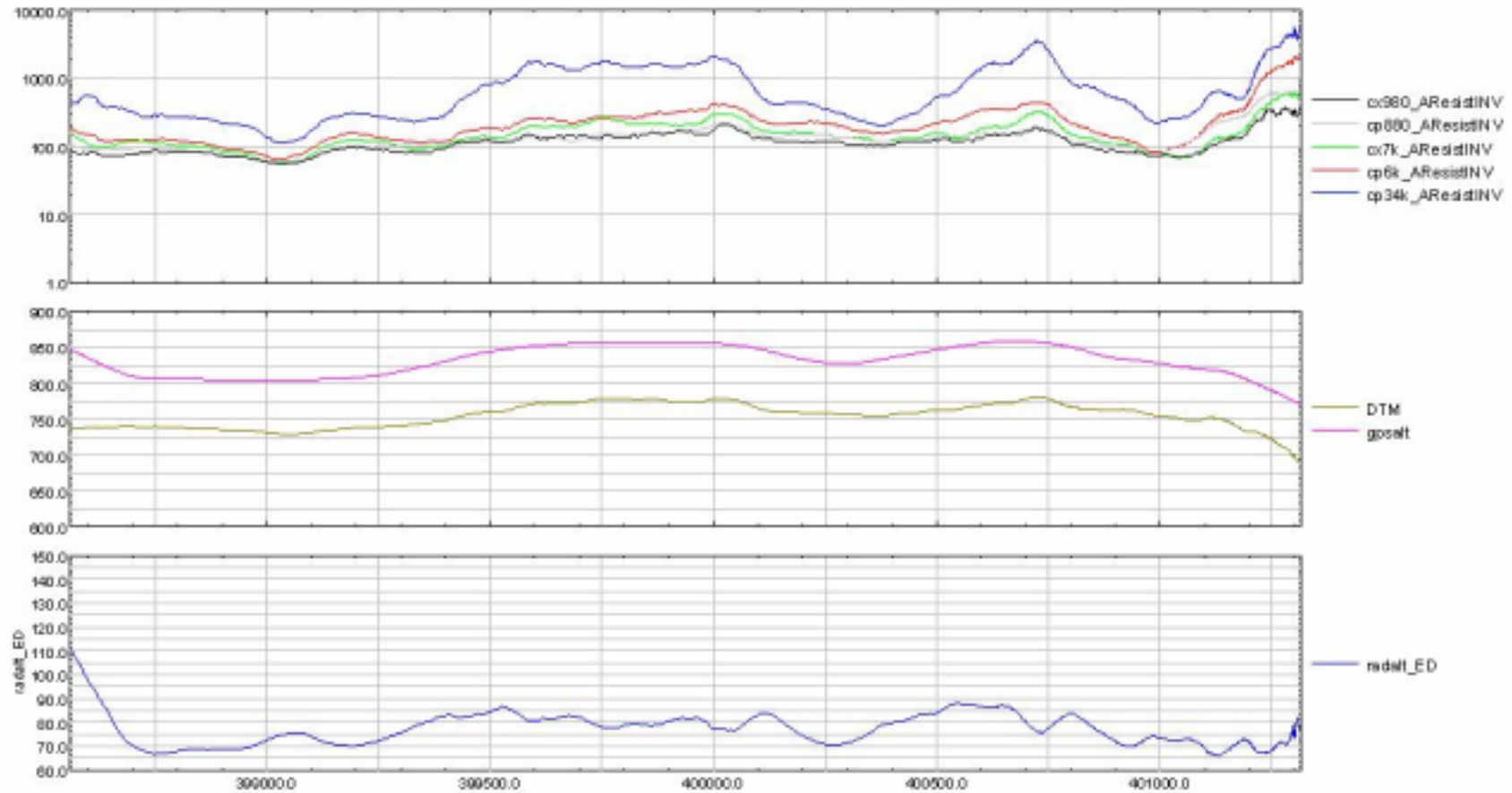
Area D Test Line Flt 11



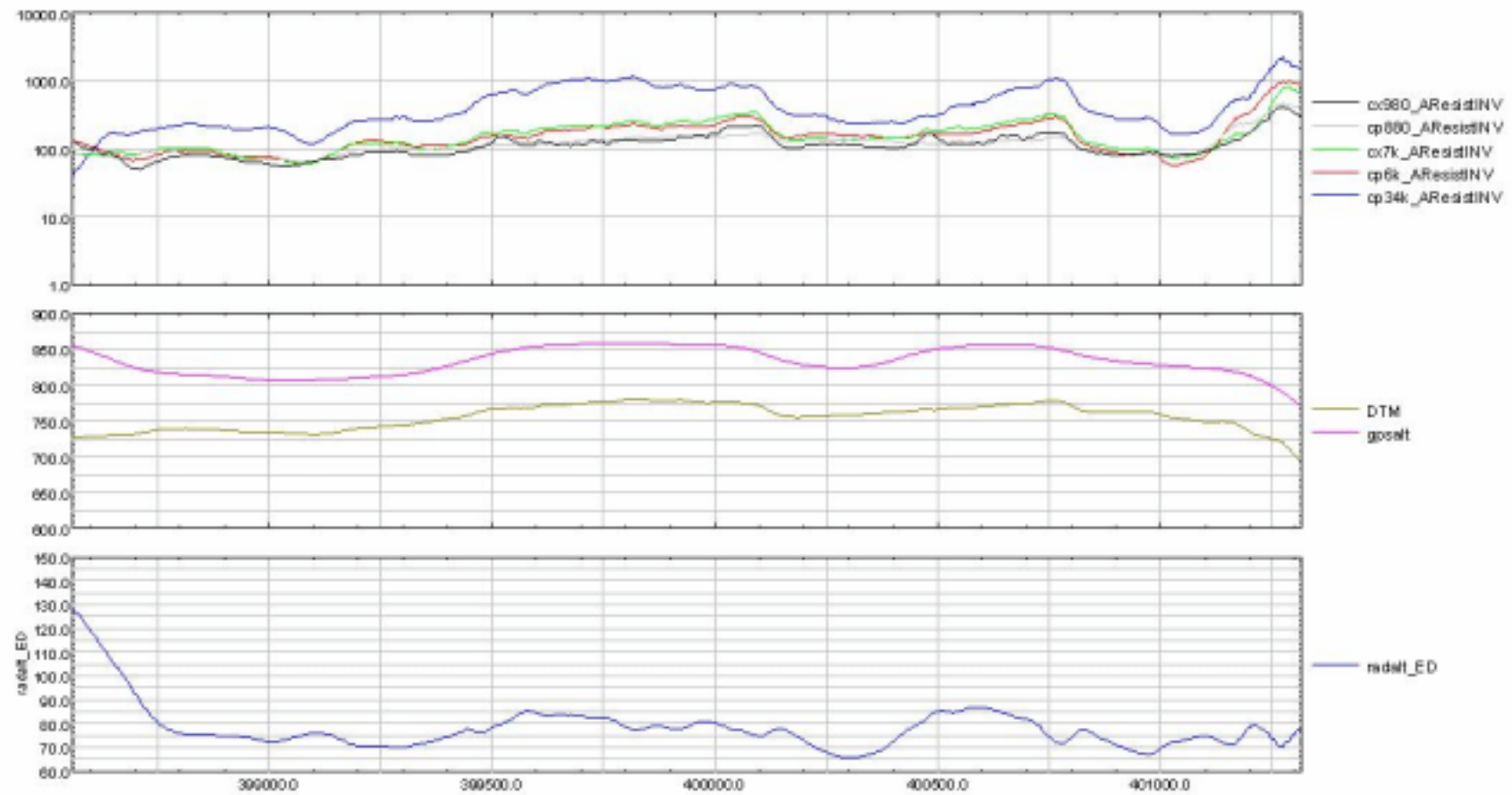
Area D Test Line Flt 12



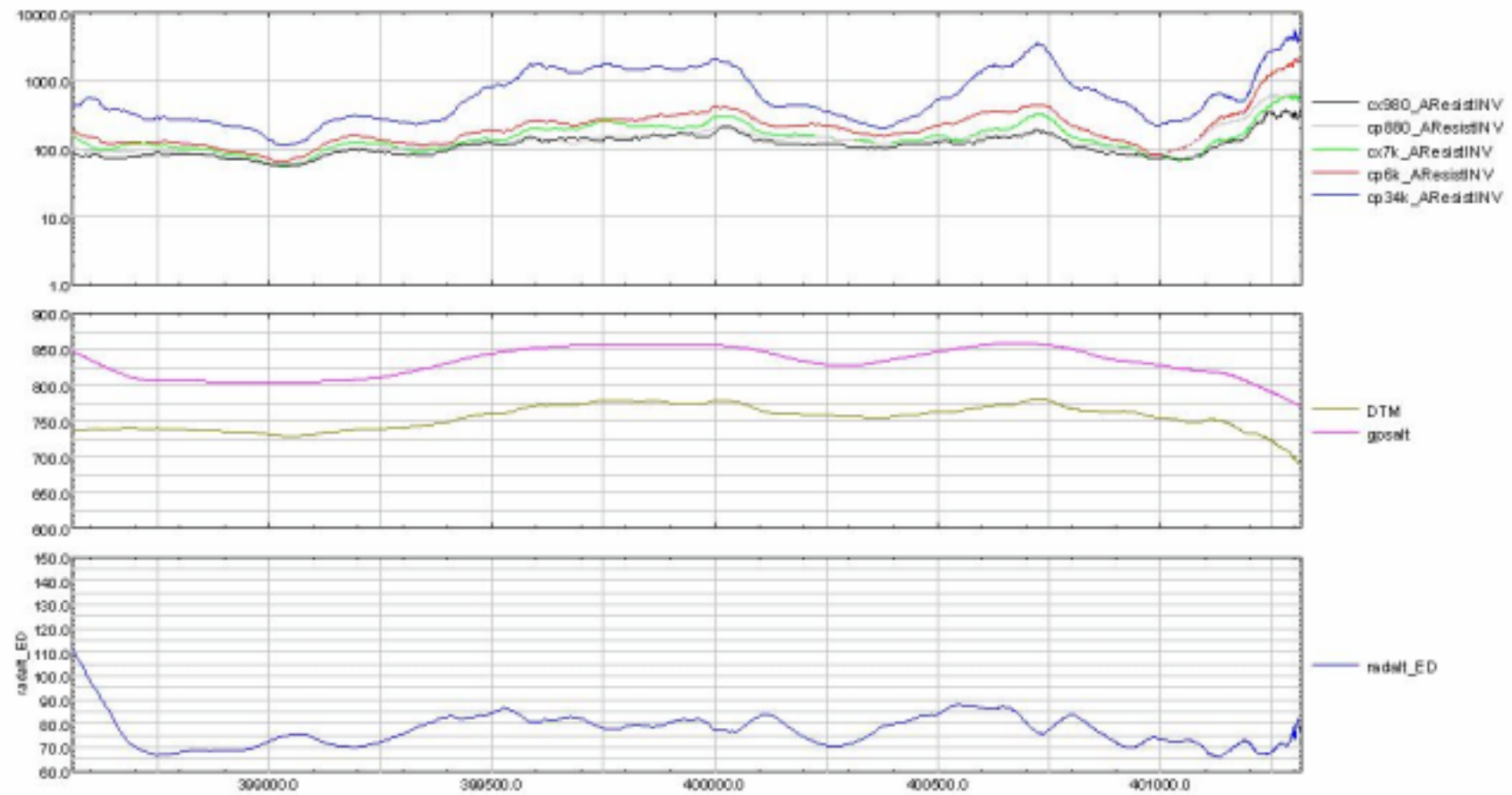
Area D Test Line Flt 13



Area D Test Line Flt 14



Area D Test Line Flt 15



```
=====
GENERAL
=====
```

Project: Heli EM Survey
 Client: MRT
 Client Rep: Bob Richardson
 Survey By: GEO Instruments
 GEO Number 2113
 Survey date: January 2001 - May 2002
 Survey Base: Sheffield, Cradle Mt, Zeehan, Marrawah

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=====
DATA ACQUISITION
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AIRBORNE SURVEY SPECIFICATIONS
=====
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Area A:	Dolcoath
Survey flown:	January 2001 - April 2002
Traverse line spacing:	200 metres
Traverse line direction:	000 / 180 degrees
Tie line spacing:	2000 metres approx
Tie line direction:	090 / 270 degrees approx
Survey height:	EM towed Bird at 30m agl
Area B,C,D:	Meredith, Mt Reid Volcanics, Balfour
Survey flown:	January 2001 - April 2002
Traverse line spacing:	200 metres
Traverse line direction:	090 / 270 degrees
Tie line spacing:	2000 metres approx
Tie line direction:	000 / 180 degrees
Survey height:	EM towed Bird at 30m agl
Electromagnetic System	Hummingbird 5 frequency EM system
Resolution:	1ppm
Recording Interval:	0.1 sec (approx. 3.5 metres sampling)
Data acquisition:	Geo Instruments Model G2002 system Geotech Hummingbird system
Aircraft:	AeroSpatiale Squirrel helicopter AS350BA

```
MAGNETOMETER
```

Type:	Geometrics G822A Caesium vapour
Resolution:	0.001 nT
Recording interval:	0.1 sec (approx. 3.5 metres sampling)
Installation:	Magnetometer sensor mounted in HEM bird.

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NAVIGATION
```

Flight path navigation:	Real time satellite Differential GPS system
Navigation equipment:	Fugro OMNISTAR GPS receivers
Flight path record:	WGS84 Easting/ Northing coordinates
Radar altimeter:	Collins Alt50
GPS base station locations:	Fugro OMNISTAR(Real Time DGPS)

```
HUMMINGBIRD COIL SPECIFICATIONS:
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Bird 1 - Between Julian day 31, 2001 to day 44, 2001

Channel	:	1	2	3	4	5

Freq (Hz)	:	7000	6600	980	880	34000
Orientation	:	CX	CP	CX	CP	CP
Coil Separation (m)	:	6.26	6.26	6.01	6.01	4.93

Bird 2 - Between Julian day 310, 2001 Flight 1 to day 67, 2002, Flight 93

Channel	:	1	2	3	4	5

Freq (Hz)	:	7000	6600	980	880	34000
Orientation	:	CX	CP	CX	CP	CP
Coil Separation (m)	:	6.26	6.26	6.01	6.01	4.93

Bird 3 - After Julian day 67, 2002, Flight 94 onwards

Channel	:	1	2	3	4	5

Freq (Hz)	:	7000	6600	980	880	34000
Orientation	:	CX	CP	CX	CP	CP
Coil Separation (m)	:	6.25	6.25	6.03	6.03	4.79

TEST LINES:

Dolcoath Line 082

Start: 426183E, 5407428N AGD66 Zone 55
End: 426200E, 5411253N AGD66 Zone 55

Meredith

Start: 410095E, 5399000N AGD66 Zone 55
End: 396279E, 5399000N AGD66 Zone 55

Mt Read

Start: 363198E, 5361109N AGD66 Zone 55
End: 362989E, 5360756N AGD66 Zone 55

Balfour

Start: 362981E, 5360736N AGD66 Zone 55
End: 363415E, 5363284N AGD66 Zone 55

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DATA PROCESSING

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MAGNETIC DATA

The magnetic data has been corrected for regional gradient by subtraction of IGRF model 2001.9 and secular variation model 1995-2000. Diurnal variations have been removed. System parallax has been removed. Tieline levelling has been applied. Microlevelling has been applied. The mean diurnal value and the IGRF base value have been added to the data.

ELECTROMAGNETIC DATA

The electromagnetic data has been filtered to remove the effects of sferics and other noise sources. Data have been corrected for system drift by subtraction of background zero levels determined from high altitude callibration data. System parallax has been removed.

Apparent resistivities have been calculated using the Inversion techniques using the Geosoft HEM module. Inphase and quadrature channels have been levelled to remove residual flight line features in apparent resistivities. Microlevelling has been applied.

34K CALIBRATION CORRECTION

A systematic error was introduced in Bird #2 due to a change in the spacing between the 34Khz receive coil and position on the Calibration jig of the 34kHz Q-Coil.

Due to this, a measurement error in the distance between the 34k reciever coil and the Q coil during the calibration of the 34K channel, a special correction was applied to the data from Bird #1:

from Flight #1 11th Nov 2001 DOY 315
to Flight #93 8th Mar 2002 DOY 67

From analysis of the Q coil response between the correct spacing and the incorrect spacing; The data were multiplied by the ratio 65/56. This

was applied during the levelling phase in an intermediate processing step.

The result gives the correct offset for the Q coil response at the correct spacing.

This correction has not been applied to the raw data fields '_ppm' in the database. Please refer to Appendix 5 of the Operations and Processing

examples of this correction.

GRIDDING - Electromagnetics- Inphase & quad
Algorithm: Minimum Curvature
Grid mesh size: 40 x 40 metres
Grid filter: None

GRIDDING - Electromagnetics- Resistivities & Conductivity
Algorithm: Minimum Curvature
Grid mesh size: 40 x 40 metres
Grid filter: none

GRIDDING - Magnetics:
Algorithm: Minimum Curvature
Grid mesh size: 40 x 40 metres
Grid filter: None

GRIDDING - Digital Terrain:
Algorithm: Minimum Curvature
Grid mesh size: 40 x 40 metres
Grid filter: 3x3 mean

LINE NUMBERING

Line numbers are in the form 'TLLLA' where

T = Line type (1 = traverse, 7 = tie)

LLL = Line sequence number

A = Line attempt number

eg: 10021 is traverse line 2 attempt 1
70482 is tie line 48 attempt 2

BIBLIOGRAPHIC REFERENCE

Surveyed by: GeoInstruments Pty Ltd
 Geo Instruments job number: 2113
 Processed by: GeoInstruments Pty Ltd
 Grid production by: GeoInstruments Pty Ltd

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EM DATA:

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Nomenclature for field name / processing relationship:

'_ppm' Raw data:
 '_F_L' Filtered and levelled data.
 '_F_LD' Filtered, levelled and microlevelled data.
 '_AResistINV' Apparent Resistivity ohms/m calculated using the INVERSION technique.
 '_ACondINV' Apparent Conductivity uS/m calculated using the INVERSION technique.

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GRIDDED DATA FILES:

Files: Extensions as for processed data above.
 Format: ER Mapper
 Cell size: 40 metres

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FINALS:

Datum: AGD66
 Projection: TMAMG
 Zone: 55

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LOCATED DATA FORMAT:

Field	Field Name	Description
Column 1	LineNo_TLLLA	line number (TLLLA)
Column 2	FlightNo	flight
Column 3	Julian_Day	julian_day (YYYYDDD)
Column 4	Fid_geo	fiducial- Geoinstruments acquisition system
Column 5	Fid_humm	fiducial- HEM acquisition system
Column 6	Time_hh	time (decimal hours)
Column 7	AGD66TMAMG55_East	AGD66 easting (metres, TMAMG Zone 55)
Column 8	AGD66TMAMG55_North	AGD66 northing (metres, TMAMG Zone 55)
Column 9	GDA94MGA55_East	GDA94 easting (metres, MGA Zone 55)
Column 10	GDA94MGA55_North	GDA94 northing (metres, MGA Zone 55)
Column 11	AGD66GEODETTIC_LAT	AGD66 longitude (decimal degrees, GEODETTIC)
Column 12	AGD66GEODETTIC_LONG	AGD66 latitude (decimal degrees, GEODETTIC)
Column 13	GDA94GEODETTIC_LAT	GDA94 longitude (decimal degrees, GEODETTIC)
Column 14	GDA94GEODETTIC_LONG	GDA94 latitude (decimal degrees, GEODETTIC)
Column 15	Mag_Raw	Raw uncompensated magnetics (nanoTeslas)

Column 16	GPSalt_Raw	Raw GPS height (metres)
Column 17	Radalt_Raw	Raw radar altimeter (metres)
Column 18	Diurnal	Diurnal magnetics (nanoTeslas)
Column 19	IGRF	IGRF magnetics (nanoTeslas)
Column 20	TMI_Corrected	Diurnal & IGRF corrected magnetics (nanoTeslas)
Column 21	TMI_Levelled	Levelled magnetics (nanoTeslas)
Column 22	TMI_Final	Final magnetics microlevelled (nanoTeslas)
Column 23	GPSalt_Final	Final GPS height (metres, AHD)
Column 24	Radalt_Final	Final Radar altimeter (metres)
Column 25	DTM_Final	Final digital terrain model (metres, AHD)
Column 26	cx7Ki_PPM	Raw cx7Ki (ppm)
Column 27	cx7Kq_PPM	Raw cx7Kq (ppm)
Column 28	cp6Ki_PPM	Raw cp6Ki (ppm)
Column 29	cp6Kq_PPM	Raw cp6Kq (ppm)
Column 30	cx980i_PPM	Raw cx980i (ppm)
Column 31	cx980q_PPM	Raw cx980q (ppm)
Column 32	cp880i_PPM	Raw cp880i (ppm)
Column 33	cp880q_PPM	Raw cp880q (ppm)
Column 34	cp34ki_PPM	Raw cp34ki (ppm)
Column 35	cp34kq_PPM	Raw cp34kq (ppm)
Column 36	cx7Ki_F_L	Filtered & Levelled cx7Ki (ppm)
Column 37	cx7Kq_F_L	Filtered & Levelled cx7Kq (ppm)
Column 38	cp6Ki_F_L	Filtered & Levelled cp6Ki (ppm)
Column 39	cp6Kq_F_L	Filtered & Levelled cp6Kq (ppm)
Column 40	cx980i_F_L	Filtered & Levelled cx980i (ppm)
Column 41	cx980q_F_L	Filtered & Levelled cx980q (ppm)
Column 42	cp880i_F_L	Filtered & Levelled cp880i (ppm)
Column 43	cp880q_F_L	Filtered & Levelled cp880q (ppm)
Column 44	cp34ki_F_L	Filtered & Levelled cp34ki (ppm)
Column 45	cp34kq_F_L	Filtered & Levelled cp34kq (ppm)
Column 46	cx7Ki_F_LD	Final Levelled cx7Ki (ppm)
Column 47	cx7Kq_F_LD	Final Levelled cx7Kq (ppm)
Column 48	cp6Ki_F_LD	Final Levelled cp6Ki (ppm)
Column 49	cp6Kq_F_LD	Final Levelled cp6Kq (ppm)
Column 50	cx980i_F_LD	Final Levelled cx980i (ppm)
Column 51	cx980q_F_LD	Final Levelled cx980q (ppm)
Column 52	cp880i_F_LD	Final Levelled cp880i (ppm)
Column 53	cp880q_F_LD	Final Levelled cp880q (ppm)
Column 54	cp34ki_F_LD	Final Levelled cp34ki (ppm)
Column 55	cp34kq_F_LD	Final Levelled cp34kq (ppm)
Column 56	cp34k_AResistINV	Apparent cp34k Resistivity (ohms/m) INVERSION technique.
Column 57	cp6k_AResistINV	Apparent cp6k Resistivity (ohms/m) INVERSION technique.
Column 58	cp880_AResistINV	Apparent cp880 Resistivity (ohms/m) INVERSION technique.
Column 59	cx7K_AResistINV	Apparent cx7K Resistivity (ohms/m) INVERSION technique.
Column 60	cx980_AResistINV	Apparent cx980 Resistivity (ohms/m) INVERSION technique.
Column 61	cp34k_ACondINV	Apparent cp34k Conductivity (uS/m) INVERSION technique.
Column 62	cp6k_ACondINV	Apparent cp6k Conductivity (uS/m) INVERSION technique.
Column 63	cp880_ACondINV	Apparent cp880 Conductivity (uS/m) INVERSION technique.
Column 64	cx7k_ACondINV	Apparent cx7K Conductivity (uS/m) INVERSION technique.
Column 65	cx980_ACondINV	Apparent cx980 Conductivity (uS/m) INVERSION technique.

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LOCATED DATA FILES:
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Final: ASCII ASEG_GDF located data
Archive Media: Exabyte

Area1_Dolcoath_Granite.dat
Area1_Dolcoath_Granite.dfn
Area1_Dolcoath_Granite_Lines_Report.txt

Area2_Meredith_Granite.dat
Area2_Meredith_Granite.dfn
Area2_Meredith_Granite_Lines_Report.txt

Area3_MtRead_Volcanics.dat
Area3_MtRead_Volcanics.dfn
Area3_MtRead_Volcanics_Lines_Report.txt

Area4_Balfour.dat
Area4_Balfour.dfn
Area4_Balfour_Lines_Report.txt

TAS_HEM_Readme.txt

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