



Technical Report

Fixed-Wing High-Resolution Aeromagnetic, Gamma-ray Spectrometric and Frequency-Domain Electromagnetic Survey

Tellus A1 Block, Republic of Ireland, 2015

for

Geological Survey of Ireland



Sander Geophysics Limited
260 Hunt Club Road
Ottawa, ON Canada K1V 1C1

Tel: +1 613.521.9626
Fax: +1 613.521.0215
www.sgl.com



Martin Bates, Ph.D., P.Ge

Monika Pal, B.Sc, P.Geo

Table of Contents

1. EXECUTIVE SUMMARY	1
2. INTRODUCTION.....	2
Project Brief	3
3. SURVEY AREA	4
Survey Boundary	6
4. SURVEY EQUIPMENT	7
Frequency Domain Electromagnetic (FEM) System	7
Aerial and Ground Magnetometers	7
Magnetic Compensation System	7
Gamma Ray Spectrometer System.....	7
Airborne Navigation and Data Acquisition System	8
Reference Station Acquisition System	8
Reference Station GPS Receiver.....	8
Digital Video System	9
Altimeters	9
Survey Aircraft	9
Data Processing Hardware and Software.....	10
5. SURVEY SPECIFICATIONS.....	11
Data Recording.....	11
Technical Specifications	11
Flight Line Specifications.....	12
Terrain Clearance.....	12
Public Relations and Flying	13
6. OTTAWA SYSTEM TESTS	14
Magnetometer System Tests	14
Magnetometer Heading Test	14
Compensation Calibration	15
Instrumentation Lag	15
Spectrometer System Tests	16
Ground Calibration Pads Test	16
Attenuation Test.....	17
System Sensitivity	19
Altimeter System, Position And Digital Terrain Model Tests	20
Radar And Laser Altimeter Calibration	20
7. DUBLIN SYSTEM TESTS.....	22
Magnetometer System Tests	22

Magnetometer Heading Test	22
Compensation Calibration	22
Daily Magnetic Diurnal Drift	24
Spectrometer System Tests	25
Cosmic and Aircraft Background	25
Radon Background Calibration.....	27
Ground Component.....	28
Daily Source Tests	29
Frequency-Domain Electromagnetic System Tests.....	30
EM System Orthogonality.....	30
EM Over-Seawater Calibration.....	31
EM Instrumentation Lag	38
EM Transmitter Noise	39
8. FIELD OPERATIONS	40
Reference Stations	40
Operational Issues	41
Field Personnel	42
9. DIGITAL DATA COMPILATION.....	43
Magnetometer Data	43
Height Correction	43
Levelling.....	44
Micro-Levelling	45
Gridding	45
Spectrometer Data.....	48
Spectral Component Analysis	48
Standard Corrections	48
Frequency-Domain Electromagnetic Data	53
Lag	54
Interactive Single Flight, Zero Level Correction For Non-Linear Drift.....	54
Derotation	54
Filtering.....	55
Levelling.....	55
Conversion to Resistivity	56
Gridding	60
Microlevelling.....	60
Conductivity Depth Slices	61
Depth Slices.....	61
Positional Data	63

Radar, Barometric, and Laser Altimeter Data	65
Temperature Data	65
10. FINAL PRODUCTS	66
Magnetic Line Data Format	66
Radiometric Line Data Format	67
Frequency-Domain Electromagnetic Line Data Format	69
Full Spectrum Spectrometer Line Data Format	71
Digital Grids	72
Digital Video	72

Index of Tables

Table 1: Survey Boundaries (IRENET95, ITM)	6
Table 2: Flight Lines Specification for both blocks	12
Table 3: Tail magnetometer heading test	14
Table 4: Spectrometer stripping ratios	17
Table 5: Spectrometer calibration test data – height corrected values	18
Table 6: Spectrometer attenuation coefficients	18
Table 7: Spectrometer system sensitivities, Breckenridge, QC	19
Table 8: Tail magnetometer heading test	22
Table 9: Magnetic compensation calibration tests and results	23
Table 10: Cosmic coefficients	25
Table 11: Radon correction coefficients	27
Table 12: Spectrometer ground component coefficients	29
Table 13: Calculated conductivity coefficients for each frequency	35
Table 14: Aircraft parking location in the WGS-84 datum	40
Table 15: GPS Reference Station Locations in the WGS-84 datum	41
Table 16: Field Personnel	42
Table 17: Spectrometer processing parameters	49
Table 18: Magnetic line data channels and format	66
Table 19: Radiometric line data channels and format	67
Table 20: Frequency-domain electromagnetic line data channels and format	69
Table 21: Frequency-domain electromagnetic line data channels and format	71
Table 22: Delivered digital grids	72

Index of Figures

Figure 1: Survey Location Map of the A1 Block	4
Figure 2: Planned survey lines	5
Figure 3: Tail magnetometer compensation calibration test	15
Figure 4: Tail magnetometer lag test	16
Figure 5: Spectrometer attenuation test	18
Figure 6: Altimeter test	21
Figure 7: Compensation Calibration Test Results, Flight 9002	23
Figure 8: Compensation Calibration Test Results, Flight 0053	24
Figure 9: Average daily ground magnetic field recordings with respect to the average value Only data from days when survey flights were performed is displayed.	25
Figure 10: Cosmic test results	26

<i>Table of Contents</i>	<i>iv</i>
<i>Figure 11: Radon test results.....</i>	<i>28</i>
<i>Figure 12: Thorium source test</i>	<i>29</i>
<i>Figure 13: Uranium source test.....</i>	<i>30</i>
<i>Figure 14: Orthogonality check</i>	<i>31</i>
<i>Figure 15: Seawater test line location</i>	<i>32</i>
<i>Figure 16: Conductivity variation with depth.....</i>	<i>33</i>
<i>Figure 17: Conductivity variation with temperature</i>	<i>33</i>
<i>Figure 18: Modelled EM response vs. Coil height above water over Donegal Bay</i>	<i>34</i>
<i>Figure 19: SGFEM 912 Hz In Phase Seawater Calibration</i>	<i>36</i>
<i>Figure 20: SGFEM 3005 Hz In Phase Seawater Calibration.....</i>	<i>36</i>
<i>Figure 21: SGFEM 11962 Hz In Phase Seawater Calibration</i>	<i>37</i>
<i>Figure 22: SGFEM 24510 Hz In Phase Seawater Calibration</i>	<i>37</i>
<i>Figure 23: EM instrumentation lag test. The blue traces are the raw EM traces and the red traces are the lag corrected EM traces</i>	<i>38</i>
<i>Figure 24: EM transmitter noise test, showing tail and wing magnetic sensor traces.</i>	<i>39</i>
<i>Figure 25: EM transmitter noise test, showing the 4th difference of the tail and wing magnetic sensor traces.</i>	<i>39</i>
<i>Figure 26: Magnetometer data processing flowchart</i>	<i>46</i>
<i>Figure 27: Spectrometedata processing flowchart</i>	<i>47</i>
<i>Figure 28: SGFEM 912Hz Nomogram</i>	<i>57</i>
<i>Figure 29: SGFEM 3005Hz Nomogram</i>	<i>58</i>
<i>Figure 30: SGFEM 11962Hz Nomogram.....</i>	<i>59</i>
<i>Figure 31: SGFEM 24510Hz Nomogram.....</i>	<i>60</i>
<i>Figure 32: Frequency-domain electromagnetic data processing flowchart</i>	<i>62</i>
<i>Figure 33: Positional data processing flowchart.....</i>	<i>64</i>

Index of Pictures

Picture 1: SGL's Twin Otter flying over the survey area.....	2
Picture 2: SGL's Twin Otter, Registration C-GSGF.....	9
Picture 3: GPS Base Station Antennas.....	41

Appendix

- I. Sander Geophysics Company Profile
- II. Planned Survey Lines
- III. Flown Survey Lines
- IV. Re-flight list
- V. Survey Equipment List
- VI. Weekly Reports
- VII. Filters
- VIII. Spectral Components – low
- IX. Spectral Components – high
- X. Precipitation Table
- XI. Digital Video Inventory
- XII. Survey Aircraft

1. EXECUTIVE SUMMARY

Sander Geophysics Limited (SGL) conducted a fixed-wing high-resolution aeromagnetic, gamma-ray spectrometry and frequency-domain electromagnetic survey in the vicinity of Dublin in the Republic of Ireland for the Geological Survey of Ireland (GSI). The survey block "A1" is part of the ongoing Tellus Programme that commenced with the Tellus Airborne Geophysical survey of Northern Ireland in 2005/2006, conducted by the British Geological Survey (BGS), and the subsequent Tellus Border Survey in 2012 jointly administered by the GSI and the Geological Survey of Northern Ireland (GSNI).

The survey was conducted using SGL's De Havilland DHC-6 Twin Otter, registration C-GSGF. Production flights commenced on June 29, 2015 and were completed on October 31, 2015. A total of 89 flights were flown during the survey to complete the planned 32,642.3 line kilometres. The survey operations were conducted from Weston Airport (EIWT).

The traverse lines were oriented N15°W and spaced at 200 m. The control lines were oriented E15°N and spaced at 2,000 m. The target clearance was 60 m above ground level, based on the Irish Aviation Authority (IAA) permit. The target average ground speed was 60 m/s, or 115 knots.

2. INTRODUCTION

This report describes the survey of the A1 Block flown by Sander Geophysics Limited (SGL) for the Geological Survey of Ireland (GSI) in the summer/fall of 2015 in Republic of Ireland in the vicinity of Dublin. See *Appendix I* for a description of SGL.

Fixed-wing high-resolution aeromagnetic, gamma-ray spectrometric, and frequency-domain electromagnetic data was gathered during this survey. The instruments used to collect the data, the tests performed to ensure optimal data quality and the data processing methods are described in this report.



Picture 1: SGL's Twin Otter flying over the survey area

The Field Operations section contains all information relating to operations at the survey location including reference station coordinates and any problems encountered during the survey. Re-flights are listed as well as field crew members. The Digital Data Compilation section details all processing performed from data acquisition to final product creation.

The following Project Brief gives a quick reference of the details of the survey.

Project Brief

Survey Title	Fixed-wing high-resolution aeromagnetic, gamma-ray spectrometric, and frequency-domain electromagnetic Survey, Republic of Ireland
Client:	Geological Survey of Ireland (GSI)
Survey Location:	Republic of Ireland
Survey Start Date:	June 29, 2015
Survey End Date:	October 31, 2015
Contact:	Jim Hodgson (jim.hodgson@gsi.ie / tellus@gsi.ie)
Field Office Location:	Dublin, Ireland
Airport Used:	Weston Airport (EIWT)
Aircraft Type:	De Havilland DHC-6 Twin Otter
Total line kilometres:	32,642.3
Survey Flying Particulars	
Traverse Lines	
Line numbers:	1001 to 1660 and 101 to 149
Line direction:	N15°W
Line spacing:	200 m
Control Lines	
Line numbers:	101 to 116 for South Block and 201 to 206 for North Block
Line direction:	E15°N
Line spacing:	2000 m
Survey Altitude:	target height of 60 m above ground.
Digital Terrain Source:	SRTM
Number of Flights (numbers):	89 (1002, 1003, 0005 to 0100)
Aircraft Target Ground Speed	60 m/s
Data	
Survey Base Parking Location (WGS-84):	N53:21:23.22° W06:29:22'.85° 47.2 m
Base Station Locations (WGS-84)	GND1: N53:25:18.611229° W06:33:59.911862° 133.7130 m GND2: N53:25:57.802680° W06:36:28.978280° 140.5950 m
Datum:	IRENET95
Projection:	Irish Transverse Mercator (ITM)

3. SURVEY AREA

The weather in the region is mild and wet, with temperatures averaging 15°C over the survey period. Overcast days with occasional rain showers and moderate to strong winds were common during the duration of the survey.

Figure 1 shows the geographical location of the survey area. The area is mostly rural in character but contains a significant amount of infrastructure including many towns, villages, roads, railway lines, power lines and peat farm operations. The planned survey lines are illustrated in Figure 2 and listed in Appendix II. The flown lines are listed in Appendix III.

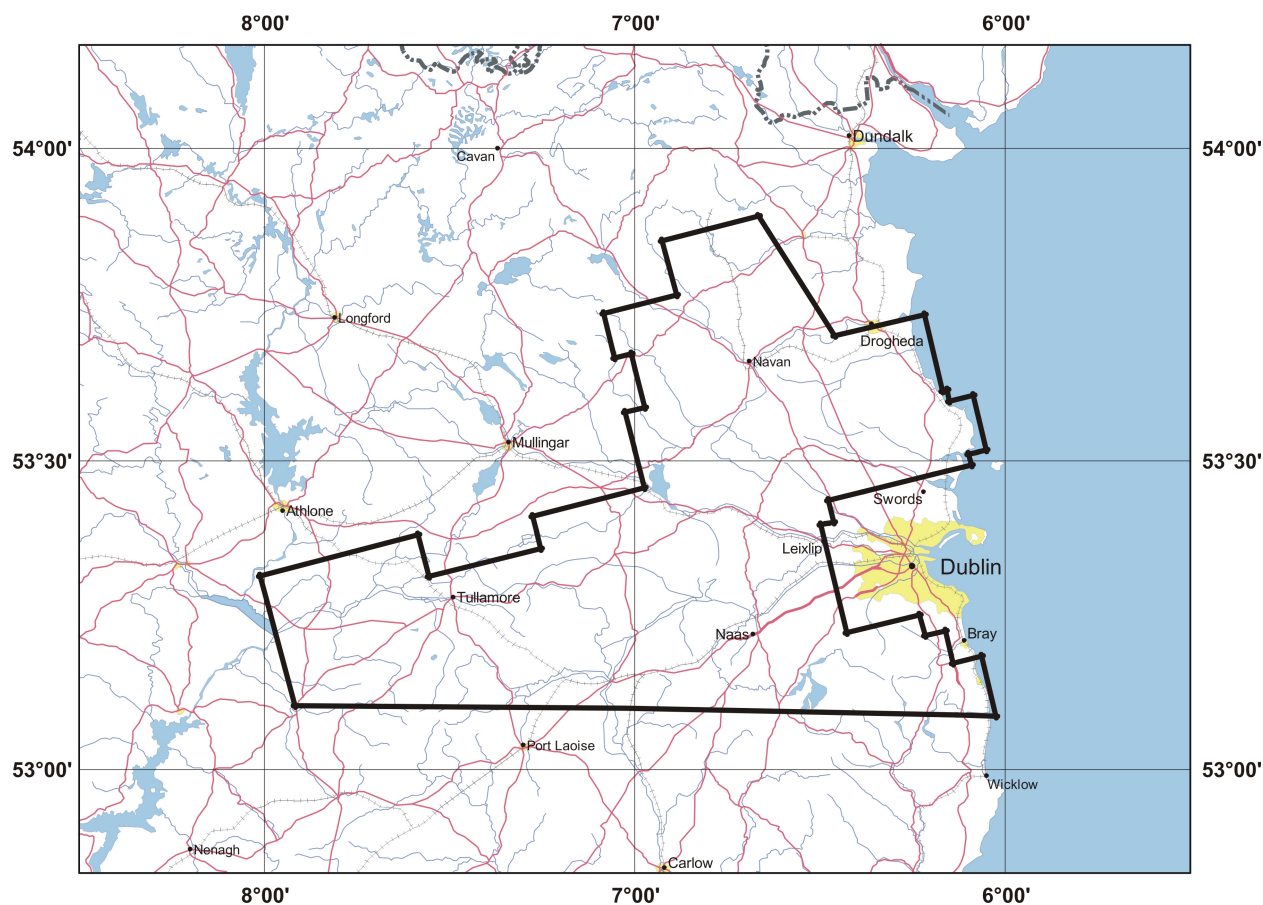


Figure 1: Survey Location Map of the A1 Block



Survey Boundary

The A1 Block is bounded by the coordinates provided in *Table 1* in the IRENET95 datum, Irish Transverse Mercator (ITM) projection:

Table 1: Survey Boundaries (IRENET95, ITM)

Easting (m)	Northing (m)
732384.605300000	705991.111300001
605502.458922221	705991.344500000
599250.196000001	729256.756500000
627643.215800000	736899.152600000
629683.396200000	729203.557600001
649713.411200100	734492.833699999
648195.276900000	740370.737900000
668106.191100000	745616.354699999
664466.024900000	759144.930000000
667950.485000000	760060.703199999
665351.871600000	769642.406199999
662451.845900000	768890.339199999
660343.110600000	776709.926800000
673352.830700000	780149.791400001
670688.209800000	789835.393200001
687616.427400000	794492.991300000
701786.310400000	773291.095200000
717555.045600000	777551.721100001
721144.298800000	764066.742699999
721961.556200001	764240.100199999
722432.098300000	762341.421499999
726658.722400000	763447.608300000
729325.127800000	753640.519600000
726237.711000000	752831.517300000
726746.811100000	750816.936700000
701242.247000000	744058.630999999
702261.766700000	740145.931900000
699977.743400000	739588.215299999
705093.627700000	720364.191400001
718115.399200000	723858.341900000
719132.000000000	719958.000000000
722827.000000000	720939.000000000
724305.000000000	715197.000000000
729562.000000000	716632.000000000

4. SURVEY EQUIPMENT

SGL provided the following instrumentation for this survey; see *Appendix V* for further details:

Frequency Domain Electromagnetic (FEM) System

JAC AEM05 four frequency (1) EM System (0.9, 3, 12, 24.5 kHz)

SGL's DHC-6 Twin Otter is configured with a four-frequency, wingtip mounted Frequency Electromagnetic (FEM) system that operates at four frequencies, 912, 3005, 11962 and 24510 Hz. This configuration results in a large transmitter-receiver coil separation which improves the signal to noise ratio. The transmitter-receiver coil pairs are mounted in a vertical-coplanar orientation which reduces noise by minimizing coupling with the wingtip surface. Additionally, the coils in any one set (transmitter or receiver) are axially offset and are kept adequately separated from each other. The system also comes equipped with a 50/60 Hz power line monitor which becomes particularly useful in identifying cultural interference when surveying in urban settings. The system has a 40 Hz sampling rate which is later decimated to 10 Hz in the processing.

Aerial and Ground Magnetometers

Geometrics G-822A

Both the ground and airborne systems used a non-oriented (strap-down) optically-pumped cesium split-beam sensor. One airborne sensor was mounted in a fibreglass stinger extending from the tail of the aircraft and a second sensor was housed in the left FEM pod attached to the left wingtip. These magnetometers have a sensitivity of 0.005 nT and a range of 20,000 to 100,000 nT with a sensor noise of less than 0.02 nT. Total magnetic field measurements were recorded at 160 Hz in the aircraft then later decimated to 10 Hz in the processing. The ground systems recorded magnetic data at 11 Hz. For the primary purpose of the survey, the wingtip sensor is considered to be redundant.

Magnetic Compensation System

Sander Geophysics AIRComp

SGL's own hardware and software system, AIRComp, was used to remove the effects of the aircraft and its maneuvers from the recorded magnetic data. This system records the magnetic field measured by up to 4 cesium magnetometers, as well as the three axis output of a fluxgate magnetometer. These data are recorded for post-processing. Calibration of the magnetic effects of the aircraft is carried out as described in section 6, System Tests. Coefficients to be used for compensation are derived by processing the calibration flight data. The compensation coefficients are applied to data recorded during normal survey operations to produce compensated magnetic data.

Gamma Ray Spectrometer System

Exploranium GR820 with crystal detector packs GPX-1024

The Exploranium spectrometer system includes an on-board computer for real-time signal processing and analysis, allowing automatic gain control for individual crystals using the natural thorium peak, and multi-channel recording and analysis. The system utilizes a NaI(Tl) detector volume of 63.0 L consisting of 12 downward-looking and 3 upward-looking

parallelepiped crystals of 4.2 L each, housed in three detector packs. Data were recorded in 256 channel spectral mode and windowed data mode at an interval of 1 Hz.

Airborne Navigation and Data Acquisition System

Sander NavDAS

The NavDAS is the latest version of airborne navigation and data acquisition computers developed by SGL. It displays all incoming data on a flat panel screen for real-time monitoring. The data are recorded in database format on a solid-state internal hard drive and a removable hard drive simultaneously for transfer of data to the field office. The computer incorporates a magnetometer coupler, an altimeter analogue to digital converter and a GPS multi-frequency receiver NovAtel OEMV-V3 tracking 14 GPS Satellites, 12 GLONASS Satellites, 2 SBAS and 1 L-Band which automatically provides the UTC time base for the recorded data. In addition to providing essential post-mission positional data, the NavDAS computer processes user-received GPS or real-time differentially corrected GPS (RDGPS) data and compares the data to the coordinates of a theoretical flight plan in order to guide pilots along the desired survey line in three dimensions.

Septentrio PolaRx2, 48 channel dual-frequency GNSS GPS receiver

The PolaRx2 system is a 3-antenna, 48-channel L1/L2 GPS receiver, designed to record attitude data of the airplane.

Reference Station Acquisition System

SGRef

The reference station system SGRef, consists of a ground data acquisition computer with a Sander magnetometer frequency counter to process the signal from the magnetometer sensor and from the GPS receiver. The noise level of the station magnetometer is less than 0.1 nT. The time base (UTC) of both the ground and airborne systems is automatically provided by the GPS receiver, ensuring proper merging of both data sets. All data are displayed on an LCD flat panel monitor. The magnetic data, sampled every 0.5 sec and GPS data, sampled at 11 Hz, are recorded on the internal hard drive of the computer and the removable hard drive simultaneously for transfer to the processing computers in the field office. The entire reference data acquisition system is fully automatic and was set for unattended recording.

Reference Station GPS Receiver

NovAtel Millennium, 12-channel, dual-frequency

The NovAtel Millennium, 12-channel, dual-frequency receiver forms an integral part of the SGRef system. It provides averaged position and raw range information of all satellites in view, sampled every 0.1 s. The comparative navigation data supplied during all production flights allows for post-processed differential GPS (DGPS) corrections for every survey flight.

Digital Video System

SGDIS - Sander Geophysics Digital Imaging System

The video camera is mounted in the floor of the aircraft and oriented to look vertically below while in flight. Real time text annotation of position, flight information and fiducial marking are incorporated for flight path verification. The data are stored, by flight line, in avi format, viewable by any commercial media player.

Altimeters

SGLas-P - Riegl LD90-3300VHS-FLP Laser Rangefinder

The Riegl laser altimeter is an eye safe laser, has a range of 400 m, a resolution of 0.01 m with an accuracy of 5 cm and a 10 Hz data rate.

Collins AL-101 Radar Altimeter

The Collins radar altimeter has a resolution of 0.5 m, an accuracy of 5%, a range of 0 to 2500 ft., and a 10 Hz data rate. This system is actively employed for survey guidance and data acquisition.

Honeywell Barometric Pressure Sensor

The barometric pressure sensor measures static pressure to an accuracy of ± 4 m and resolution of 2 m over a range up to 30,000 ft. above sea level. The barometric altimeter data is sampled at 10 Hz.

Omega RTD-805 Outside Air Temperature Probe

The outside air temperature is measured at 10 Hz with a resolution of 0.1° C. The temperature sensor has a range of $\pm 100^\circ$ C and an accuracy of $\pm 0.2^\circ$ C. The temperature sensor is mounted in an air inlet duct at the point where the wing strut attaches to the right hand wing.

Survey Aircraft

De Havilland DHC-6 Twin Otter (C-GSGF)

The De Havilland DHC-6 Twin Otter (C-GSGF) is an all metal, high-wing, twin-engine, short takeoff and landing (STOL) aircraft. It is powered by two Pratt & Whitney Canada PT6A-27 engines that run a constant speed, fully feathering, reversible propeller. The PT6 turbine engines provide ample power for climbing over steep terrain, working at altitudes up to 7,000 m and can withstand frequent rapid power changes.

The aircraft is highly



Picture 2: SGL's Twin Otter, Registration C-GSGF

manoeuvrable, rugged in design and can be flown at speeds from 80 to 160 knots. The low

stall speeds and abundant available power make the Twin Otter a safe and effective aircraft for surveys requiring flying over rough topography, low air speeds or flights at high altitude. The aircraft has fixed gear, extendable flaps and manually adjustable trim tabs on the primary controls for the roll and pitch axes and full rudder trim for the yaw axis. The aircraft is equipped with full de-icing equipment and sufficient avionics for instrument flying, including a flight control system. Supplementary fuel can be added for transoceanic flight. The Twin Otter is certified for IFR flights in known icing conditions.

The SGL Twin Otter is fully equipped for airborne magnetic, radiometric and frequency-domain Electromagnetic (FEM) surveys. EM fields are measured with the SGL frequency-domain EM system (SGFEM). The four-frequency FEM transmitter is located in the right wingtip FEM pod, and the receiver is located in the left wingtip FEM pod. The magnetic field is measured by up to two sensors allowing for horizontal gradient with one sensor in the composite tail stinger and one in the left wingtip FEM pod. The Twin Otter can carry up to 63 litres of detector crystals for gamma-ray spectrometer surveys. The aircraft conforms to Canadian aeronautical regulations in survey configuration. See *Appendix XII*.

Data Processing Hardware and Software

Processing was performed on high performance desktop computers optimized for processing tasks. SGL's proprietary geophysical software was used for data processing.

5. SURVEY SPECIFICATIONS

Data Recording

In the aircraft:

- GPS positional data (time, latitude, longitude, altitude and raw range from each satellite being tracked) 10 readings per second (10 Hz);
- Altitude as measured by the barometric altimeter at 10 readings per second (10 Hz);
- Terrain clearance as measured by the radar altimeter at 10 readings per second (10 Hz);
- Terrain clearance as measured by the laser rangefinder at 3.3 readings per second (3.3 Hz);
- Total magnetic field recorded at 160 readings per second (160 Hz);
- Airborne spectrometer data recorded in windowed and 256 channel spectral format at 1 reading per second (1 Hz);
- Outside air temperature at 10 readings per second (10 Hz);
- Digital video at 30 frames per second (30 Hz).
- Electromagnetic in-phase and quadrature components for four frequencies (912, 3005, 11962 and 24510 Hz) recorded at 40 Hz.

At the base and remote magnetic/GPS reference stations:

- Total magnetic field at 11 readings per second (11 Hz);
- GPS positional data (time, latitude, longitude, and raw range from each satellite being tracked) at 10 readings per second (10 Hz).

Technical Specifications

The following technical specifications were adhered to:

- The horizontal accuracy of the final flight path after correction shall typically be +/- 0.5 m.
- Traverse lines with deviation greater than 45 m from the planned line over a distance of 2.5 km or more, or greater than 90 m from the planned line over any distance, will be reflight (except where ground conditions dictate otherwise).
- Tie lines with deviation greater than 100 m from the planned line over a distance of 2.5 km or more, or greater than 200 m from the planned line over any distance, will be reflight (except where ground conditions dictate otherwise).
- Lines where terrain clearance exceeds +/- 20 m from the nominal survey height for more than 2.5 km or 40 m from the nominal survey height at any time on any line will be reflight (unless local topography makes it unavoidable).
- The average flying speed for the survey aircraft is 116 knots or 60 m/s and should not be exceeded by more than 30% for more than 2.5 km.
- The aircraft shall be equipped with a survey magnetometer fitted according to the manufacturer's specification, with a resolution of 0.001 nT and a noise envelope of <0.1 nT.

- The aircraft magnetic heading error after compensation shall be less than +/- 1.0 nT on reciprocal survey headings.
- The envelope sum of the compensation maneuvers shall not exceed 3 nT.
- During data acquisition magnetic variations recorded at the local base magnetometer should not exceed 12 nT over any 3 minute chord or exceed 2 nT over any 30 second chord, on flight lines or tie lines.
- Relative count rates above background during the pre/post flight source tests will be within two standard deviations of the average sample checks for the survey.
- The average line gamma spectra for any line should not appear anomalous by comparison with previously acquired data.
- The calculated PDOP should be <6 and more than 4 satellites should be available.
- If both primary and secondary GPS base stations fail to record for 30 minutes or more simultaneously the affected lines will be reflown.
- If both primary and secondary magnetic base stations fail to record for 30 minutes or more simultaneously the affected lines will be reflown.
- The calibration of the EM system should not deviate significantly from the norm.
- A reflown line must overlap a good line for two tie lines.

Flight Line Specifications

The survey area flight line specifications were as follows (line direction is with respect to the UTM zone reference frame):

Table 2: Flight Lines Specification for both blocks

	Line Direction	Line Spacing (m)
Traverse Lines	N15°W	200
Control Lines	E15°N	2,000

Terrain Clearance

Flying guidance was provided primarily by SGNavi, a flexible and simple navigation system specifically designed by SGL for the airborne geophysical environment. Following the pre-planned survey lines, SGL's SGNavi system guides the pilots from their point of departure to the start of a specific line, directs them along the survey line, and then to the next line or any other line of their choosing. While flying along a line, the SGNavi system shows the pilots the correct x and y location and their altitude on a small LCD screen mounted in the pilot's line of vision.

Additional navigation parameters are displayed, such as DTS (distance to start of line), DTE (distance to end of line), TMG (track made good), SPD (aircraft ground speed), XHT (up/down error), DTK (desired heading), TTS (time to start of line), TTE (time to end of line), TKE (track error).

For the Tellus (A1 Block) survey, the target height was set to 60 meters above ground level in accordance with the IAA permit. The altitude measurements were provided by an aviation radar altimeter. The system is equipped with a safety pull up mode that warns the pilots if the clearance is below a pre-determined height, set at 50 meters above ground level in this case. Each survey line is flown as close to the target height as possible so as to maximise the quality and coverage of the frequency domain EM data which drops off rapidly in signal strength with distance from the source. FEM data quality is very good up to altitudes of about 75 m above ground whilst data collected above 150 m is usually unreliable due to reduced coupling. For this reason, the altitude in adjacent lines and at intersections of lines is not consistent, as would normally be preferred for aeromagnetic data acquisition.

A Garmin GNS430/530 was employed as a second guidance system for this survey with dual receiver navigation system that uses a Jeppesen NavData database. A Garmin was installed on each pilot's yoke that displayed the survey lines and also let the pilots know which lines have already been flown. Another important use for this GPS system was to mark pre-determined areas that pilots had to avoid flying low over. This included towns, farms, equestrian centres etc. Each pre-determined high-fly area had a buffer around it to allow the plane to climb to a higher altitude before reaching the area. The method for dealing with areas to be avoided is discussed in more detail in the *Public Relations and Flying* section below.

Public Relations and Flying

A public relations (PR) campaign was set up by GSI to inform the public about the Tellus survey. A website was set up showing the survey area and the layout of the flight lines, along with some information about the survey. Each week the website was updated with lines that SGL planned to fly that week. This information was submitted to the PR representatives each week by the crew. There was also a phone hotline set up where the public could call with concerns, usually issues related to low flying. People also had the option to become a 'notify' or an 'high-fly'. The people on the 'notify' list were notified before each day that SGL planned to fly over their property. The people on the 'high-fly' list were generally not notified but the plane flew at 240 m over their property to avoid disruption of people and animals. In such a case the person gave the GPS coordinates of their property to the PR group, who in turn passed it along to the crew. This polygon was then input into the Garmin GPS along with a buffer area. This allowed the pilots to see the areas they needed to avoid during the flight and plan accordingly. Avoid polygons were also made for large towns and cities (with a population of 200 people or greater) without previous request from any specific person. In some cases the pilots climbed over a built up area that was not marked in their GPS to avoid complaints from the public.

6. OTTAWA SYSTEM TESTS

Magnetometer System Tests

Magnetometer Heading Test

A test was performed to measure the heading error of the magnetic system in the survey aircraft. The test was performed by flying a "cloverleaf" pattern over a known point at high altitude (roughly 10,000 ft) to limit the contribution of ground magnetic signal as much as possible. The cloverleaf consists of a pass over the known point orientated in all four directions of the traverse and control lines.

A heading test was performed prior to the aircraft leaving Ottawa. A test was flown on May 22, 2015 for the tail magnetometer. The heading test flight lines were pre-planned, and reference ground magnetic data were obtained through the use of an SGL reference station.

The results of the heading test are presented in *Table 3*. The test determined an average northwest-southeast heading error for the tail magnetometer of -0.59 nT and an average northeast-southwest heading error of 1.77 nT.

Table 3: Tail magnetometer heading test

Aircraft type: DHC6 Twin Otter Registration: C-GSGF Field Location: Republic of Ireland Organization: Sander Geophysics Pilot: Todd Svarckopf Co-Pilot: Alex Schmidt				Date: 22 May 15 Height flown: ~10,000 ft AGL Magnetometer type: Geometrics G-822A Compensator: SGL AIRComp Sampling rate: 10/s Data acquisition system: Sander SGDAS-3			
Dir	Line #	GMT	Total Field Aircraft	Ground Mag	Calculated	Error Value	Variation from Average
NW	1	19:13:25	53,849.3	54489.8	53851.1	-1.78	-0.04
SE	2	19:02:21	53,847.0	54487.2	53848.5	-1.51	0.23
NE	3	19:18:32	53,851.0	54490.4	53851.7	-0.70	1.04
SW	4	19:07:31	53,846.7	54488.4	53849.7	-3.07	-1.33
NW	5	19:38:42	53,850.0	54491.0	53852.3	-2.24	-0.50
SE	6	19:27:13	53,850.8	54490.8	53852.1	-1.33	0.41
NE	7	19:44:07	53,851.0	54490.7	53852.0	-1.05	0.69
SW	8	19:32:51	53,849.9	54490.8	53852.1	-2.24	-0.50
					Total	-13.92	
					Average	-1.74	
Average North-South Heading Error				-0.59 nT			
Average East-West Heading Error				1.77 nT			

Compensation Calibration

Compensation calibrations determine the magnetic influence of aircraft and its maneuvers. During the compensation calibration flight, the aircraft performs sets of three pitches ($\pm 5^\circ$), rolls ($\pm 10^\circ$), and yaws ($\pm 5^\circ$), while flying in the four flight line directions at high altitude over a magnetically quiet area. The coefficients calculated from the calibration are applied to the acquired magnetometer data to measure the effectiveness of the compensation system in mitigating the magnetic interference.

The total compensated signal noise resulting from the twelve maneuvers, referred to as the Figure of Merit (FOM), is calculated from the maximum peak-to-peak value resulting from each maneuver. A compensation calibration was performed on May 20, 2015 for the tail magnetometer before the aircraft left Ottawa. See *Figure 3* for an illustration of the compensated and uncompensated data acquired during the compensation calibration.

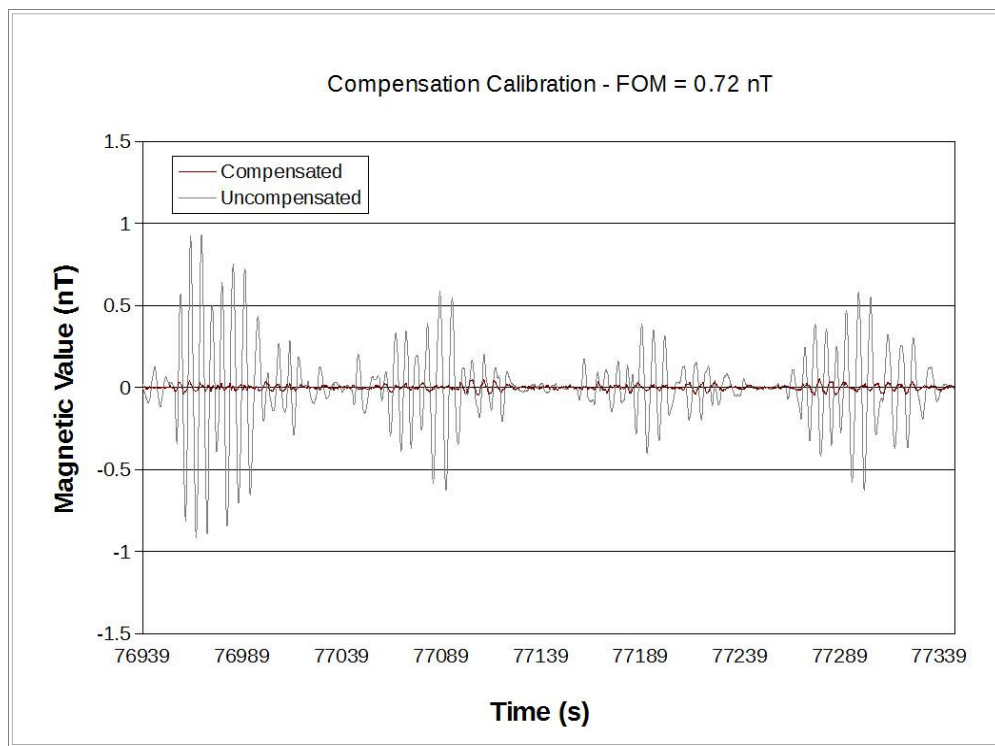


Figure 3: Tail magnetometer compensation calibration test

Instrumentation Lag

The lag in the magnetic data is a function of two components, a static lag due to signal processing and a speed-dependent dynamic lag due to the physical offset of the magnetometer and the GPS antenna. Both elements of the lag are well-known. The static lag is known to be 0.244 s from the filters applied during signal processing. The dynamic lag is equal to the offset of the sensors along the long axis of the aircraft, known to be 12 m for the tail magnetometer divided by the flying speed. For this test the dynamic tail magnetometer lag averaged 0.218 s, for a total lag of 0.462 s.

The lag test was flown on May 20, 2015 for the tail magnetometer before the aircraft left Ottawa. The results are shown in *Figure 4*. The lag correction is applied in the first step of magnetic data compilation.

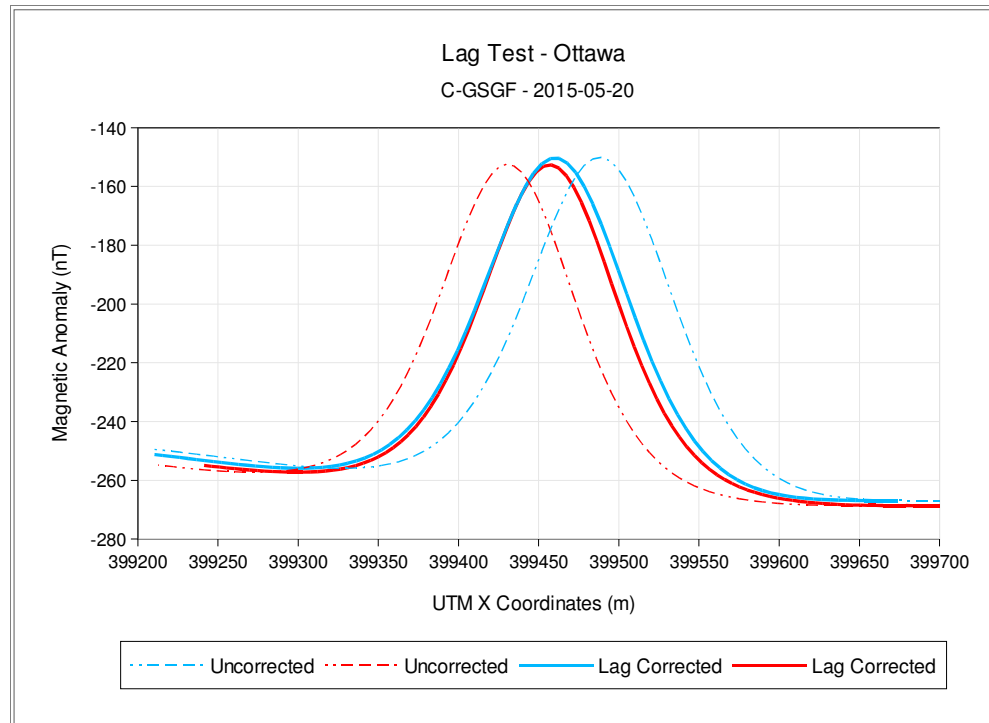


Figure 4: Tail magnetometer lag test

Spectrometer System Tests

Ground Calibration Pads Test

The stripping ratios for the gamma-ray spectrometer were determined on May 21, 2015 before the aircraft departed Ottawa. The GSC calibration pads, which are stored at the SGL hangar in Ottawa, were used. The tests were performed with the detectors installed in survey configuration on board the aircraft. Each detector was tested separately and the test results were averaged to create stripping ratios for this system. See *Table 4* for a complete list of stripping ratios.

The following procedure was carried out:

- Cesium stabilization
- Thorium stabilization
- Pre-pads source test, one thorium source below pack
- Stabilization on thorium taken off
- Pads test carried out in order: background, potassium (six minutes recording each)
- Re-stabilize on thorium

- Stabilization on thorium taken off
- Pads test carried out in order: uranium, thorium, and background (six minutes recording each)
- Stabilization on thorium put on
- Post-pads source test, one thorium source below pack

Table 4: Spectrometer stripping ratios

	Crystal Pack A	Crystal Pack B	Crystal Pack C	Overall System
Thorium into Uranium (α)	0.2523	0.2387	0.2625	0.2512
Thorium into Potassium (β)	0.4042	0.4036	0.3918	0.3999
Uranium into Potassium (γ)	0.7579	0.7226	0.7529	0.7445
Uranium into	0.0439	0.0374	0.0435	0.0416
Potassium into Thorium (δ)	0.0000	0.0000	0.0000	0.0000
Potassium into Uranium (ϵ)	0.0086	0.0000	0.0037	0.0037

Attenuation Test

The exponential height attenuation coefficients for the spectrometer were calculated using the data acquired during a pre-survey test flight over the GSC test range at Breckenridge, Quebec on May 22, 2015. The calibration flights were carried out from approximately 150 m to 275 m mean terrain clearance at 15 m and 25 m intervals. A series of background measurements were made by flying the same altitudes over the Ottawa River to determine the background due to cosmic radiation, radon decay products in the air and the radioactivity of the aircraft and equipment. Results of this test are given in *Table 5*.

After correction for background and stripping, the variation in count rate with effective height was used to determine the attenuation coefficients shown in *Table 6*. Results of the attenuation test are shown in *Figure 5*.

Table 5: Spectrometer calibration test data – height corrected values

Altitude at STP (m)	Total Counts (cps)	Potassium (cps)	Uranium (cps)	Thorium (cps)
148.1	2529.0	322.5	18.6	76.7
163.5	2530.5	321.7	18.4	73.8
178.2	2506.4	314.4	21.1	73.0
192.0	2509.6	319.0	16.2	74.8
219.6	2526.8	321.4	17.2	75.6
246.7	2545.9	327.4	23.7	73.3
274.7	2508.4	315.8	16.5	75.8

Table 6: Spectrometer attenuation coefficients

	Coefficients (m^{-1})
Total	-0.005806
Potassium	-0.007203
Uranium	-0.006573
Thorium	-0.005906

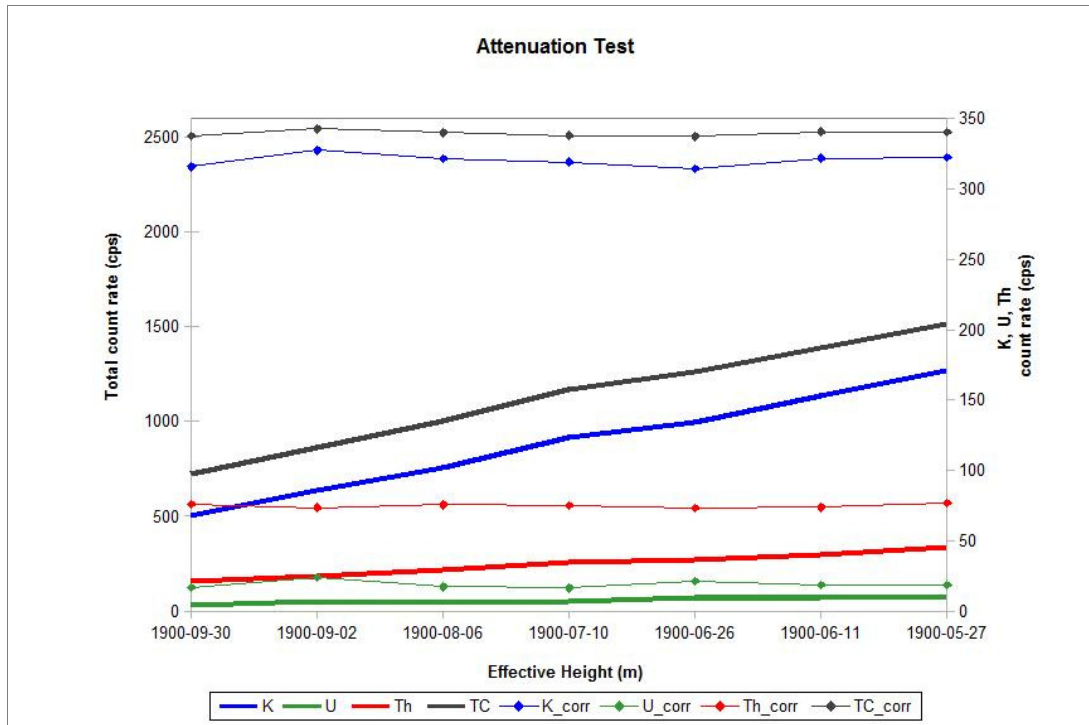


Figure 5: Spectrometer attenuation test

System Sensitivity

A pre-survey test flight was carried out over the GSC test range at Breckenridge, Quebec on May 22, 2015. The test flight served to determine system sensitivities through comparison of airborne data with data acquired on the ground, as well as to determine the variation of the window counts with aircraft altitude (see attenuation coefficients above).

The ground measurements made using an Exploranium portable gamma-ray spectrometer, were acquired at 32 different sites along the 10 km length of the calibration range. Measurements were also made using the portable spectrometer on the Ottawa River to determine background radiation due to cosmic radiation, radon decay products in the air and any radioactivity of the equipment. The background was subtracted from the ground measurements and the ground concentrations of potassium, uranium and thorium were determined by calibration of the portable spectrometer using the GSC calibration pads located at Ottawa Airport.

The sensitivities of the airborne system for potassium, equivalent uranium, and equivalent thorium were calculated by dividing the average count rates corrected to an effective height of 60 m above ground by the measured ground concentrations. The results are presented in *Table 7*.

Table 7: Spectrometer system sensitivities, Breckenridge, QC

	Average counts at 60 m (cps)	Ground Concentrations	Sensitivities
Potassium	320.3	1.89%	169.4779 cps/%
Equivalent Uranium	18.8	1.68 ppm	11.2001 cps/ppm
Equivalent Thorium	74.7	8.00 ppm	9.3386 cps/ppm

After processing the A1 Block data, comparison of ground concentrations with adjacent data sets revealed that the uranium sensitivity in *Table 7* is too low. Re-analysis of the data from the May 22nd test showed that the concentration of uranium on the test line determined from the ground survey was anomalously high, probably due to under-correction for radon background levels. The incorrect high concentration of uranium resulted in a low uranium sensitivity when cross referenced with the airborne data.

During acquisition of the A2 Block in 2016, an overlap was flown along the boundary between the A1 and A2 Blocks. Differences in concentration levels determined during the two surveys are expected due to changes in ground conditions from year to year, and the overlap was flown so that data from the two surveys could be adjusted to account for this effect. The overlap data also allowed for correction of the low uranium sensitivity determined from the May 22nd test. In addition, the downward facing crystal volume employed was increased from 50.4 litres for the A1 Block to 67.2 litres for the A2 Block, resulting in an overall increase in total count from one survey to the next. Because the uranium sensitivity for the A1 Block was

known to be incorrect, the A1 Block data is adjusted to match the A2 Block data. To match the data the following scale factors are required:

- Potassium 1.32
- Uranium 0.54
- Thorium 1.15
- Total Count 1.32

The scale factors for potassium and thorium reveal that ground concentrations increased between the end of the survey in 2015 and the start of the survey in 2016, probably due to drier conditions. The scale factor for uranium reflects these same changes, but is mostly due to the incorrect sensitivity, hence the reduction in concentration. The total count also reflects the changes in conditions, but is dominated by the impact of the increased crystal volume.

To apply these scale factors, the total count is multiplied by the value given above, but for the other elements rather than scaling the data the sensitivities are adjusted to give the equivalent result. The adjusted sensitivities are provided in *Table 17*.

Altimeter System, Position And Digital Terrain Model Tests

Radar And Laser Altimeter Calibration

A test flight to calibrate the radar and laser altimeters was flown on March 13, 2015 over the runway at Gatineau Airport, near Ottawa. Twelve passes were conducted over the runway at heights from 0 to 280 m above ground at various levels. For the Collins radar, only the heights from 0 to 140 m were used for the calibration in order to be as precise as possible within the range of heights in which the aircraft was surveying. The altimeter values were compared to the post-flight differentially corrected GPS altitude information for calibration. An ideal altimeter would yield a slope of 1 and an intercept of 0. The Collins radar altimeter slope was 1.0038 and the intercept 0.2791 m. The laser altimeter slope was 0.9619 and the intercept was 2.7463 m. These results are within the expected accuracy of the altimeters. Please refer to *Figure 6* which illustrates the results of the altimeter test.

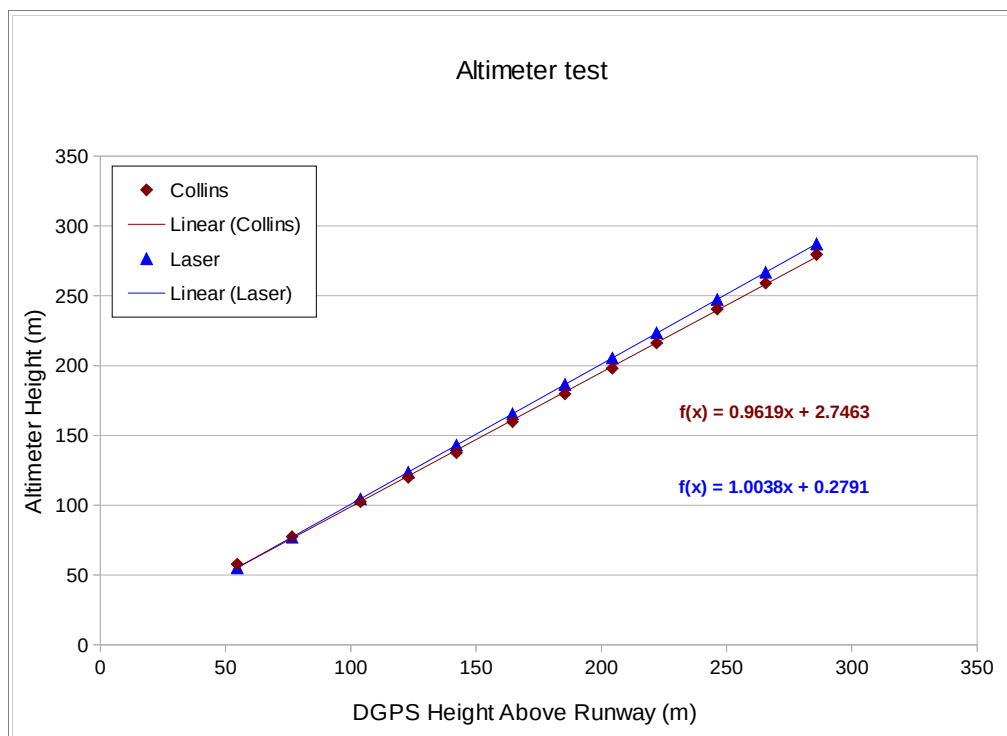


Figure 6: Altimeter test

7. DUBLIN SYSTEM TESTS

Magnetometer System Tests

Magnetometer Heading Test

A heading test was performed over Donegal Bay prior to the start of the survey on June 26, 2015. The heading test flight lines were pre-planned, and reference ground magnetic data were obtained through the use of the survey SGL reference station.

The results of the heading test are presented in *Table 8*. The test determined an average north-south heading error of 0.47 nT and an average east-west heading error of 0.06 nT for the tail magnetometer. The heading error remains consistent through the duration of the survey, and is fully corrected in the normal airborne magnetic data during processing.

Table 8: Tail magnetometer heading test

Aircraft type:		DHC6 Twin Otter	
Registration:		C-GSGF	
Field Location:		Republic of Ireland	
Organization:		Sander Geophysics	
Pilot:		Todd Svarckopf	
Co-Pilot:		Charles Dicks	
Dir	Line #	Diurnally Corrected Mag	Variation From Average
1	N	41.1	0.47
2	S	40.5	-0.10
3	E	41.1	0.46
4	W	40.7	0.08
5	N	40.5	-0.13
6	S	40.1	-0.51
7	E	40.4	-0.27
8	W	40.6	0.00
	Avg	40.6	
Average N-S Heading Error			0.47 nT
Average E-W Heading Error			0.06 nT

Compensation Calibration

Compensation calibrations determine the magnetic influence of aircraft and its manoeuvres. During the compensation calibration flight, the aircraft performs sets of three pitches ($\pm 5^\circ$), rolls ($\pm 10^\circ$), and yaws ($\pm 5^\circ$), while flying in the four flight line directions at high altitude over a magnetically quiet area. The coefficients calculated from the calibration are applied to the acquired magnetometer data to measure the effectiveness of the compensation system in mitigating the magnetic interference.

The total compensated signal noise resulting from the twelve manoeuvres, referred to as the Figure of Merit (FOM), is calculated from the maximum peak-to-peak value resulting from each

manoeuvre. A new compensation calibration must be performed after any aircraft or system modifications that may affect the aircraft's magnetic field interference. A Compensation flight was performed on the 26th June 2015 over Donegal Bay, and again on 10th September 2015 just Southeast of Longford, County Longford. *Table 9* shows the compensation calibration tests performed for the tail magnetometer and the results. See Figures 7 and 8 for an illustration of the compensated and uncompensated data acquired during the compensation calibration.

Table 9: Magnetic compensation calibration tests and results

Date	Flight	FOM (nT)	Used for Flights
June 26, 2015	9002	0.6	all
September 10, 2015	0053	0.97	not used

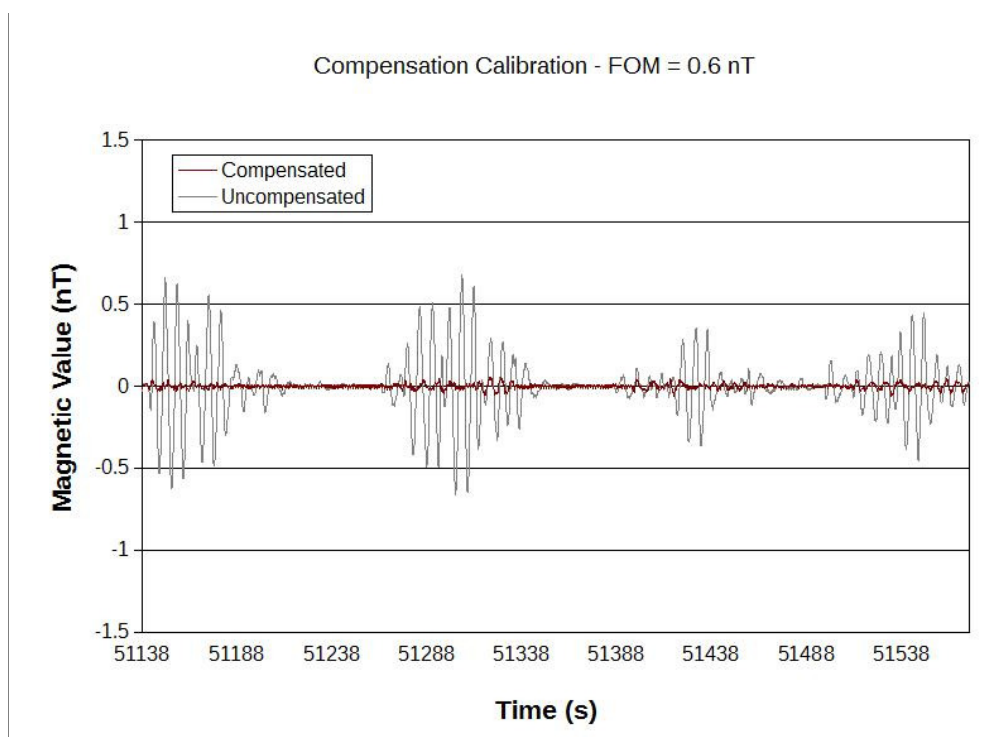


Figure 7: Compensation Calibration Test Results, Flight 9002

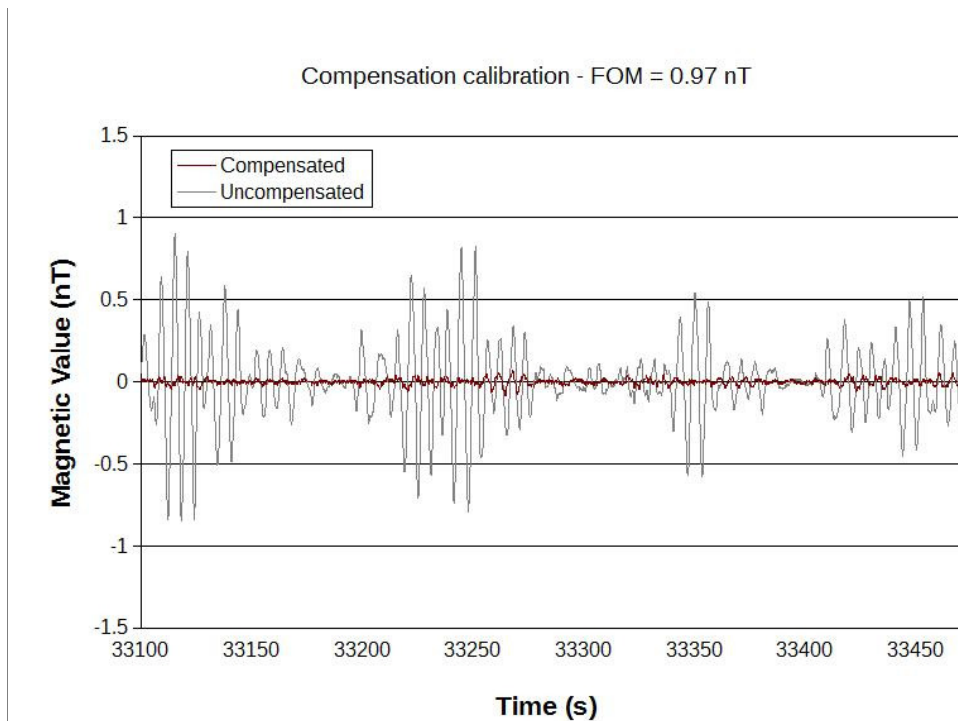


Figure 8: Compensation Calibration Test Results, Flight 0053

Daily Magnetic Diurnal Drift

The average values of all daily ground magnetic field recordings for production days are plotted in Figure 9. The average was determined by first correcting for the International Geomagnetic Reference Field (IGRF) using the year 2015 model extrapolated forwards to the present date and using the fixed ground station location and recorded date for each flight. All corrected readings were combined to obtain an average value for the survey. The graph reflects the deviation of each production day from the average value.

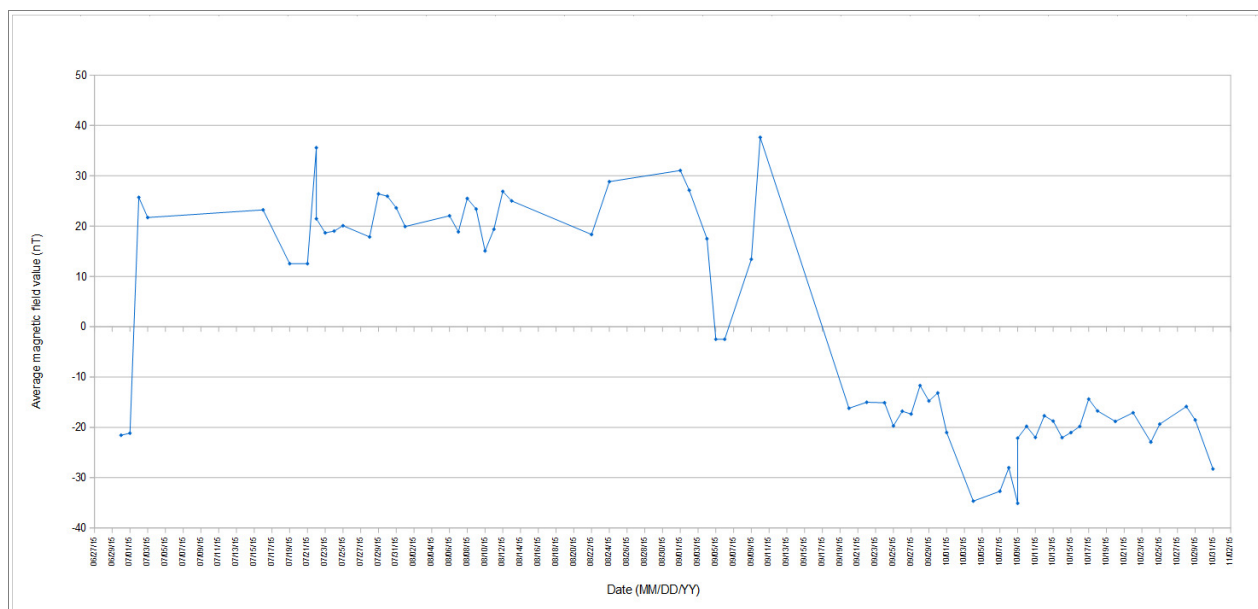


Figure 9: Average daily ground magnetic field recordings with respect to the average value. Only data from days when survey flights were performed is displayed.

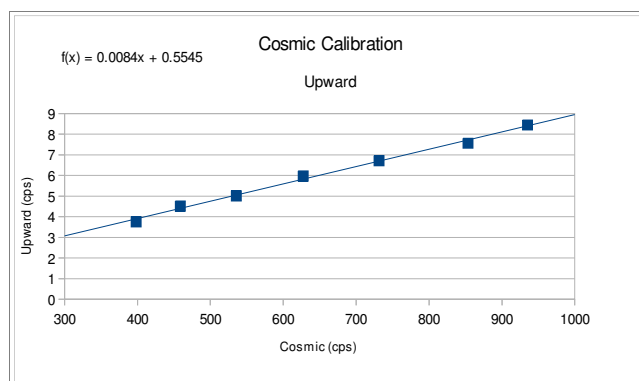
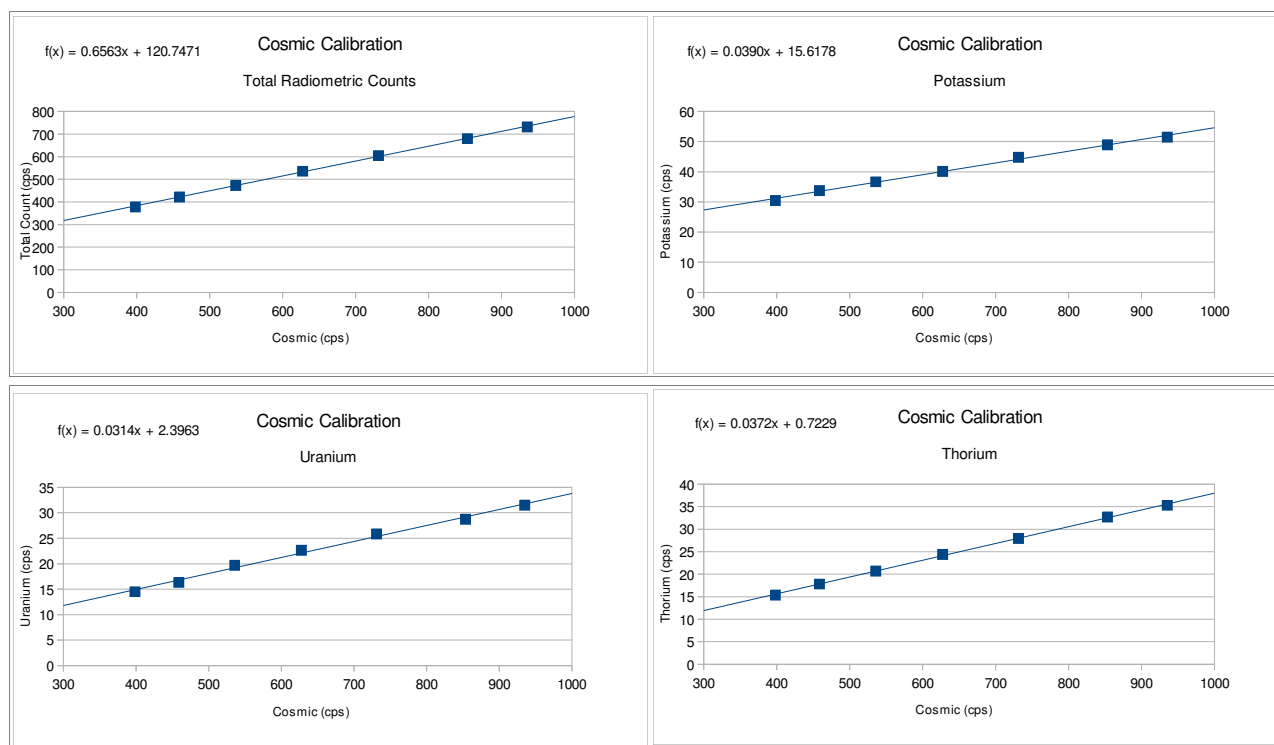
Spectrometer System Tests

Cosmic and Aircraft Background

A cosmic and aircraft background test was performed for the spectrometer on June 26, 2015, over Donegal Bay. The test flight consisted of flying at heights of 1800 m to 3500 m above ground level at 300 m intervals, recording approximately 6 minutes of data at each altitude. Coefficients are determined by linear regression of cosmic counts versus each spectral window as described in the IAEA Report 323 (1991). *Table 10* lists the computed cosmic and aircraft background coefficients. *Figure 10* shows the cosmic test results.

Table 10: Cosmic coefficients

	Cosmic Stripping Factor	Aircraft Background (cps)
Total	0.66	120.74
Potassium	0.0390	15.62
Uranium	0.0314	2.40
Thorium	0.0372	0.72
Upward	0.0084	0.56



Radon Background Calibration

Radon background was monitored through the use of two upward looking detectors. Coefficients relating the count rate in the uranium window from the upward detectors to the count rate in the potassium, uranium, thorium and total count windows from the downward facing detectors were determined using several over water test lines flown over Lough Ree, north of Athlone, Co. Westmeath.

The cosmic and background corrected data from each of the up (ur), thorium (Tr), potassium (Kr) and total (Ir) windows are plotted against the counts in the uranium (Ur) window for each over water line flown. The coefficients determined for this survey are presented in *Table 11*. Linear regressions of these plots provide the radon coefficients to be used in the radiometric data processing are shown in *Figure 11*.

Table 11: Radon correction coefficients

	<i>a</i>	<i>b</i>
$I_r = a_I U_r + b_I$	13.2227	0.0000
$K_r = a_K U_r + b_K$	0.8310	0.0000
$T_r = a_T U_r + b_T$	0.0000	0.4640
$u_r = a_u U_r + b_u$	0.2011	0.2454

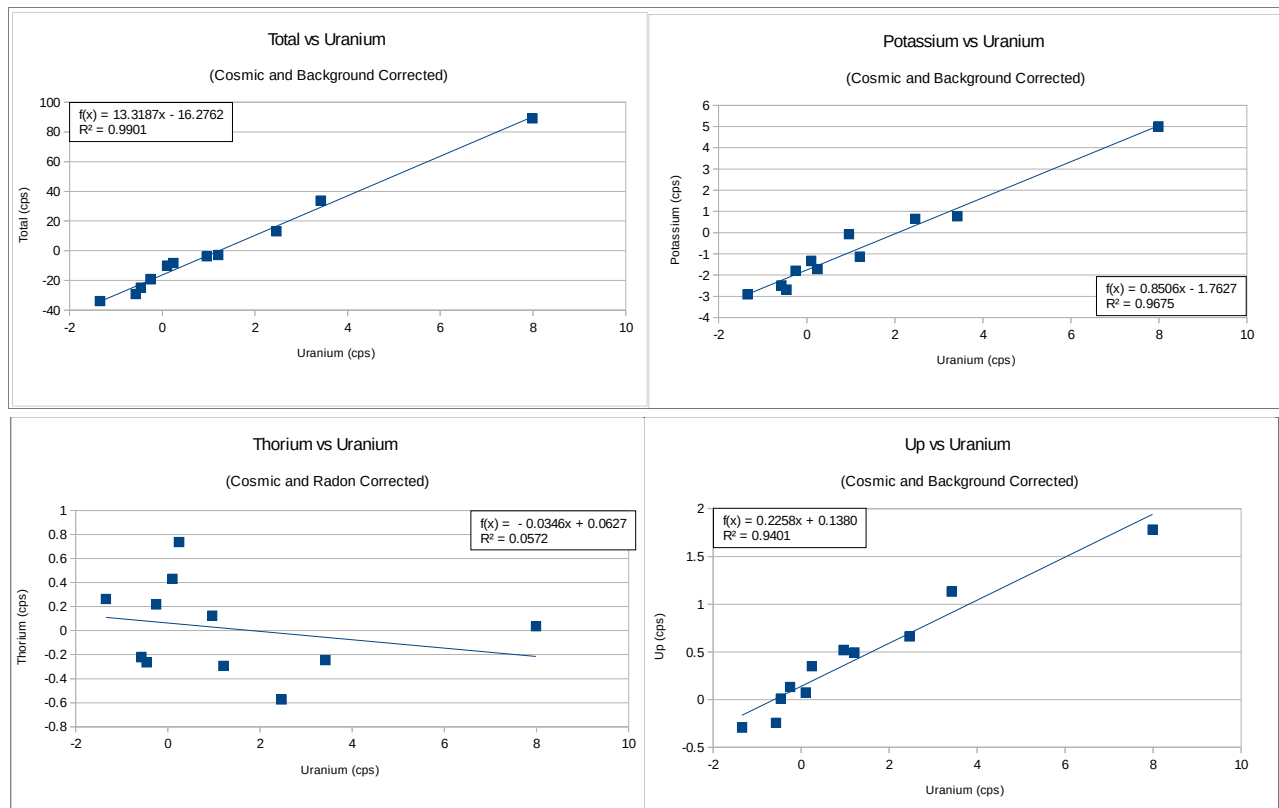


Figure 11: Radon test results

Ground Component

The ground component coefficients are used to quantify the response of the upward looking detector to radiation from the ground using the technique described in IAEA Report 323. This involves computing two coefficients based on the counts in the uranium and thorium windows as follows:

$$u_g = a_1 U_g + a_2 T_g$$

where:

- u_g is the upward window count from the ground
- U_g is the downward uranium window count
- T_g is the downward thorium window count
- a_1 and a_2 are the ground coefficients

The ground component coefficients are determined from the full survey data set and those used for this project are listed in *Table 12*.

Table 12: Spectrometer ground component coefficients

a_1 (uranium)	a_2 (thorium)
0.0409	0.0153

Daily Source Tests

Thorium and uranium source tests were performed at the start and end of each production day. A source was positioned beneath each crystal pack. Data from the thorium, and background windows were recorded for 300 seconds during each test. Recorded data were dead-time and background corrected and statistics were compiled. Thorium source test results were well within $\pm 5\%$ of the mean value, see *Figure 12* and *Figure 13*. The coherence of the data indicates that the system is operating correctly.

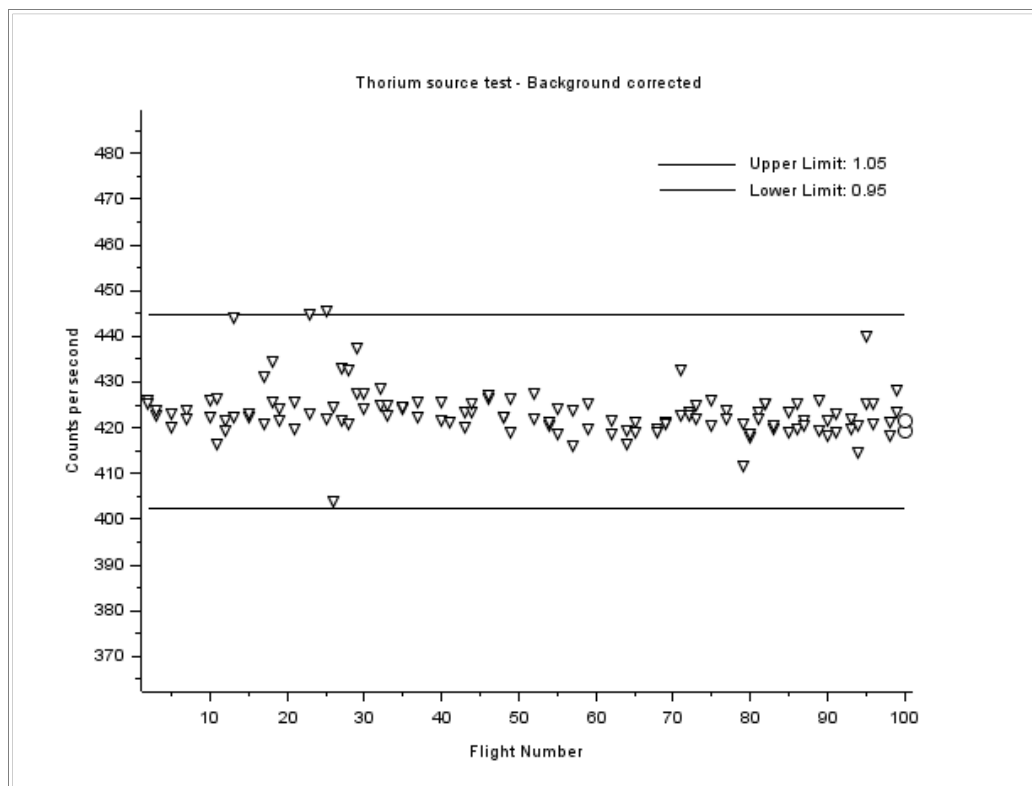


Figure 12: Thorium source test

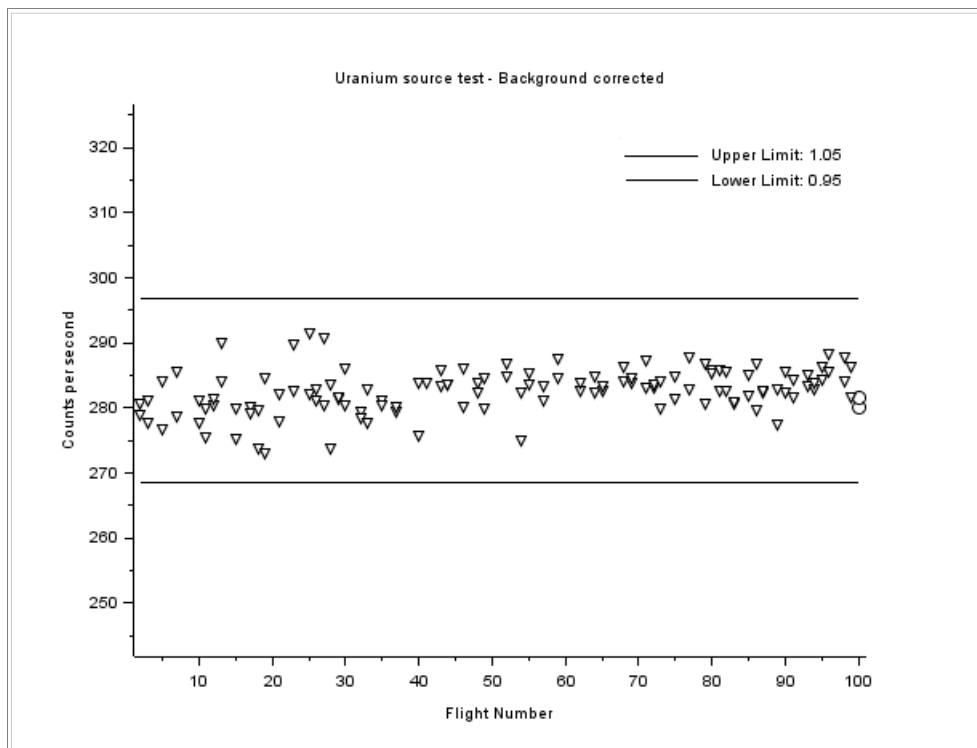


Figure 13: Uranium source test

Frequency-Domain Electromagnetic System Tests

EM System Orthogonality

Prior to each flight, the phase shift between the in-phase and quadrature parts of the EM response is verified and adjusted if required. For each frequency, two pulses of constant amplitude are artificially generated, the first being perfectly in-phase with the primary field, and the second being phase shifted by 90 degrees. Therefore, when the phase orthogonality is properly adjusted, no quadrature response should be observed during the first pulse, and vice versa during the second. This test is usually performed above 300 m to avoid any EM response from the ground and to minimize cultural interference. The compensation of the primary field, enabling EM data to be recorded with reference to an arbitrary zero-level low enough to ensure that the full range of the receiving device can be utilized, is also verified to ensure the system is functioning properly. The orthogonality check is also performed following the flight, while ferrying back to the base. An example of the orthogonality check is shown in *Figure 14*.

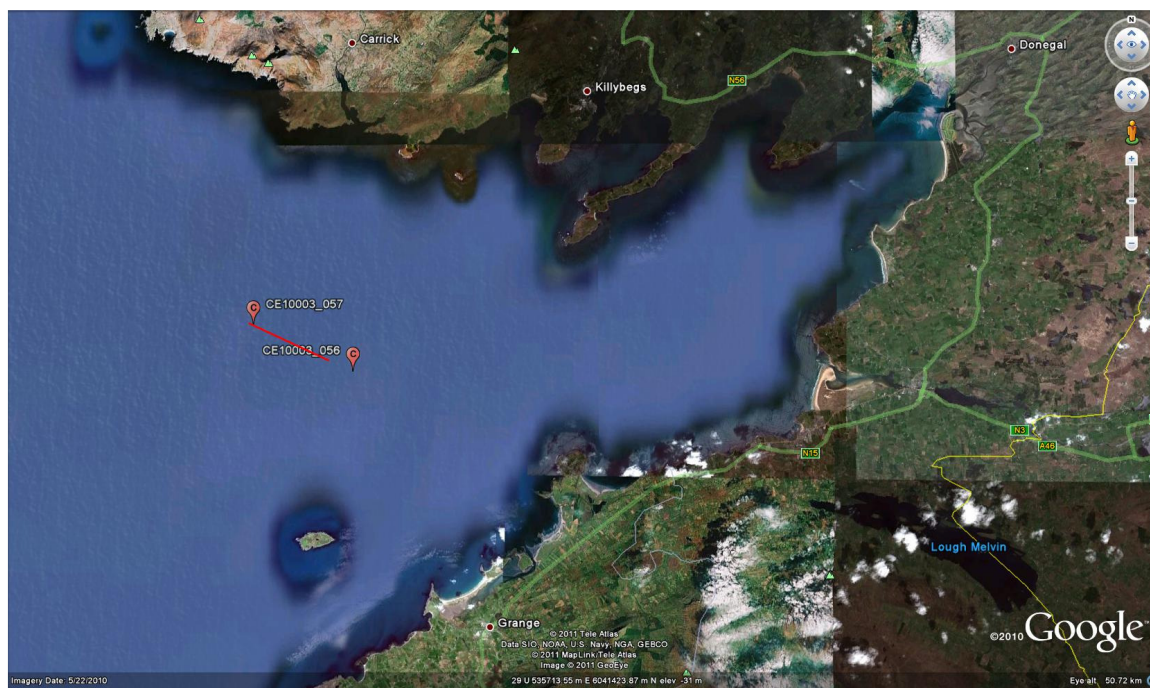


Figure 15: Seawater test line location

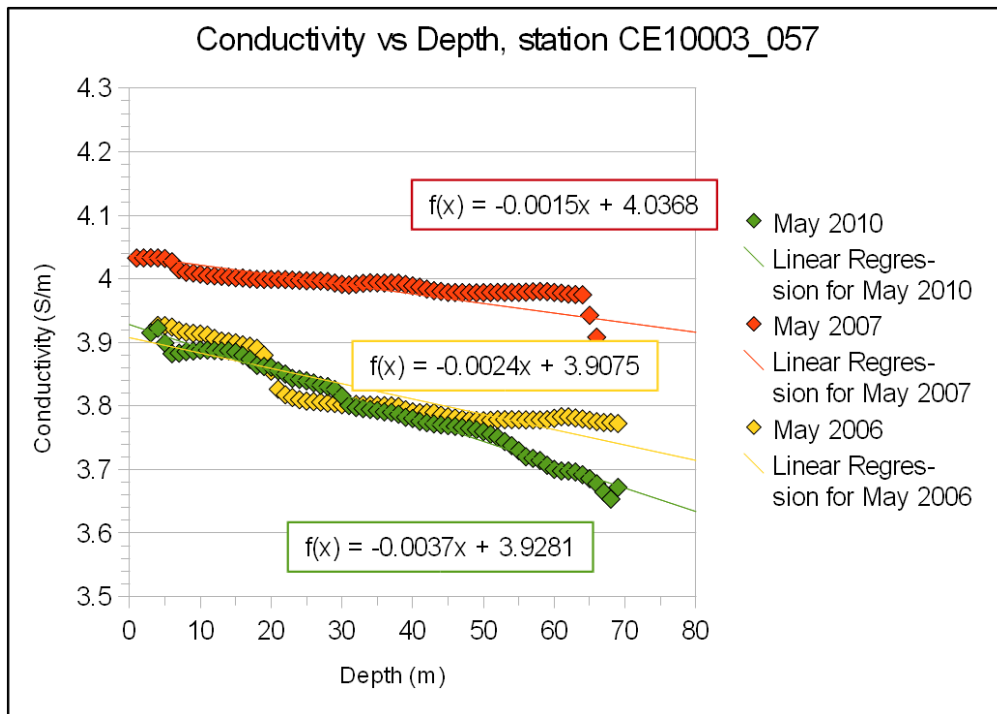


Figure 16: Conductivity variation with depth

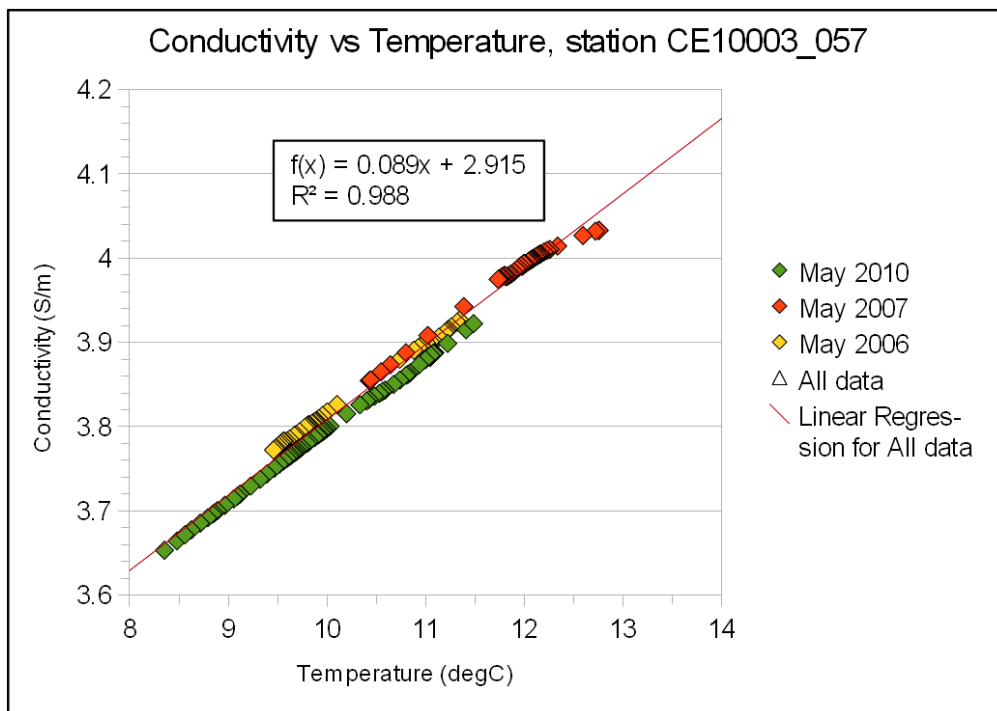


Figure 17: Conductivity variation with temperature

The 4.5 km long calibration line was flown on August 6, 2015 at several heights from 25 to 100 m. Surface water temperature measured on the same day the calibration flight took place (13.36 °C, published by the Irish Marine Institute) enabled the estimation of the water conductivity close to surface ($[0.089 \text{ S/m}^\circ\text{C} \cdot 13.36^\circ\text{C}] + 2.915 \text{ S/m} = 4.10 \text{ S/m}$). Based on the average conductivity decrease with depth observed over the three years, it was possible to estimate the water conductivity at a depth of 30 m ($[-0.0025 \text{ S/m}^2 \cdot 30 \text{ m}] + 4.10 \text{ S/m} = 4.03 \text{ S/m}$), and the average conductivity between the surface and a depth of 30 m at the calibration site (4.07 S/m). Slight changes in conductivity below 30 m are negligible. This conductivity was used to create a single layer model (half-space), which was employed to calculate the EM response for each component of each frequency, for the range of altitudes covered during the calibration flight. The calculation was performed with the software Airbeo, developed by AMIRA. The results are shown in *Figure 18*.

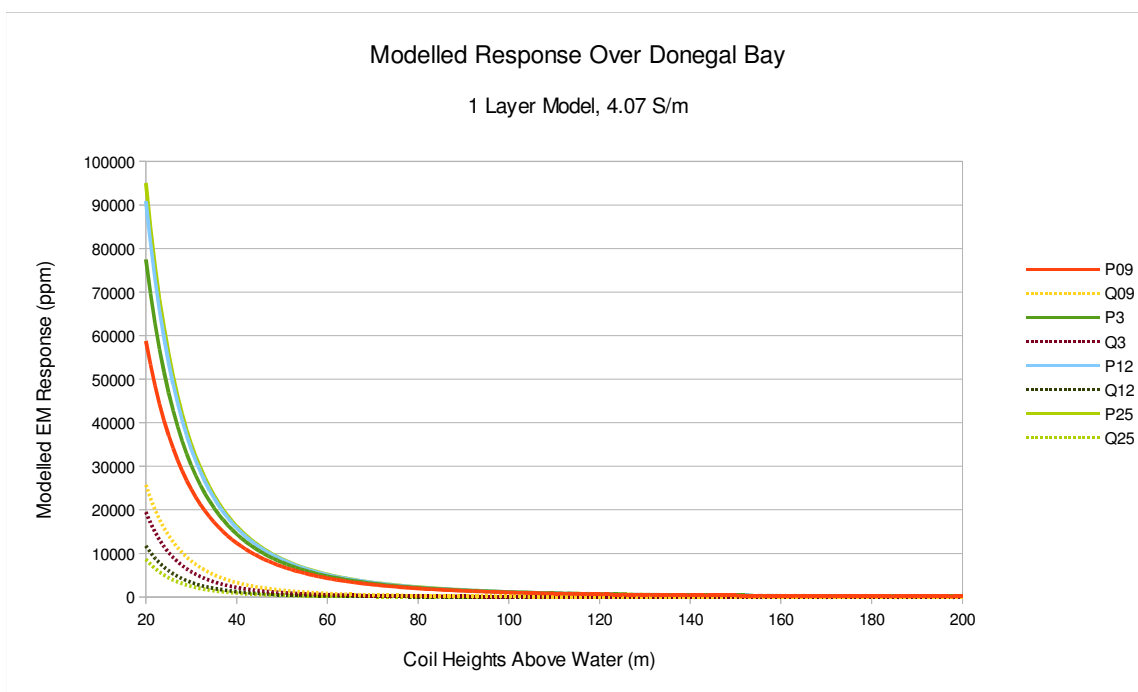


Figure 18: Modelled EM response vs. Coil height above water over Donegal Bay

This model shows how sensitive the EM response is with respect to separation distance between the system and the water. It is therefore important to use accurate clearance information to perform the calibration. The radar altimeter was properly calibrated over the Gatineau airport runway in Canada. Moreover, the altimeter data was corrected for the distance between the radar system and the EM coils. Given the wide footprint of the radar, the use of the strongest return when recording altitude, and the relatively low flying altitude, attitude corrections were deemed negligible. The EM data was also corrected for lag effects.

The receiver measured voltage (V units) recorded along the calibration line were plotted against the theoretical secondary to primary field coupling ratio (ppm units), and the

calibration coefficients (ppm/V units) were obtained through a linear regression. In order to ensure that the measured in-phase data used for the calibration is indeed entirely in-phase, the in-phase/quadrature orthogonality was verified before and after the calibration flight and confirmed to be good.

The coefficients obtained for each frequency are summarized in *Table 13*. These coefficients were used for all flights to convert from Volts to ppm. The plots showing the fit obtained for the in-phase response at each frequency are presented in *Figures 19 to 22*.

Table 13: Calculated conductivity coefficients for each frequency

Frequency	912 Hz	3005 Hz	11962 Hz	24510 Hz
Coefficient	5372	5784	7496	6122

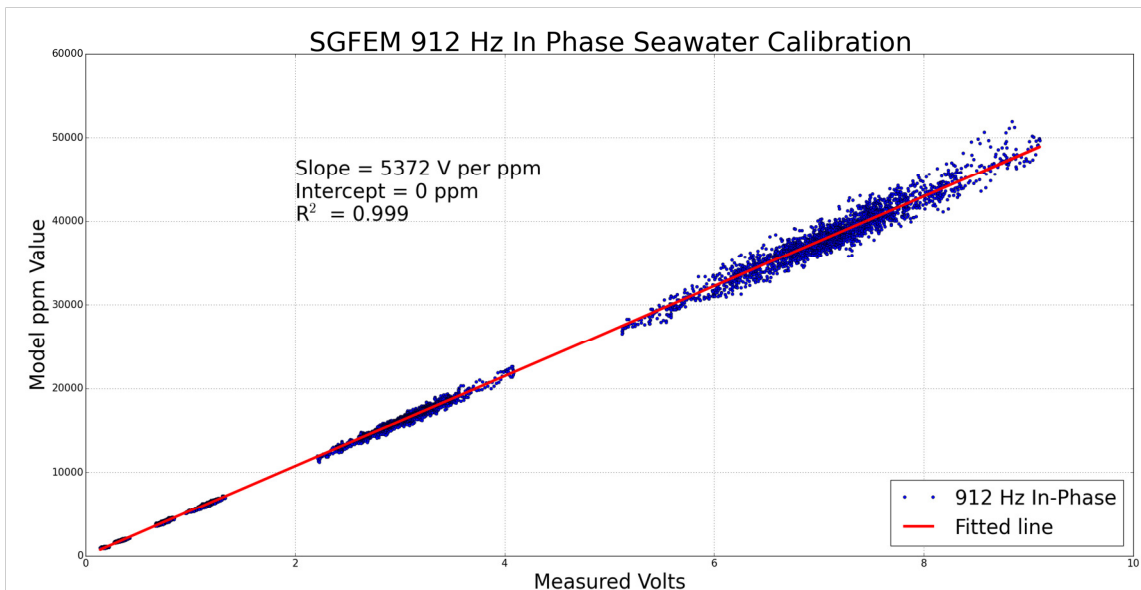


Figure 19: SGFEM 912 Hz In Phase Seawater Calibration

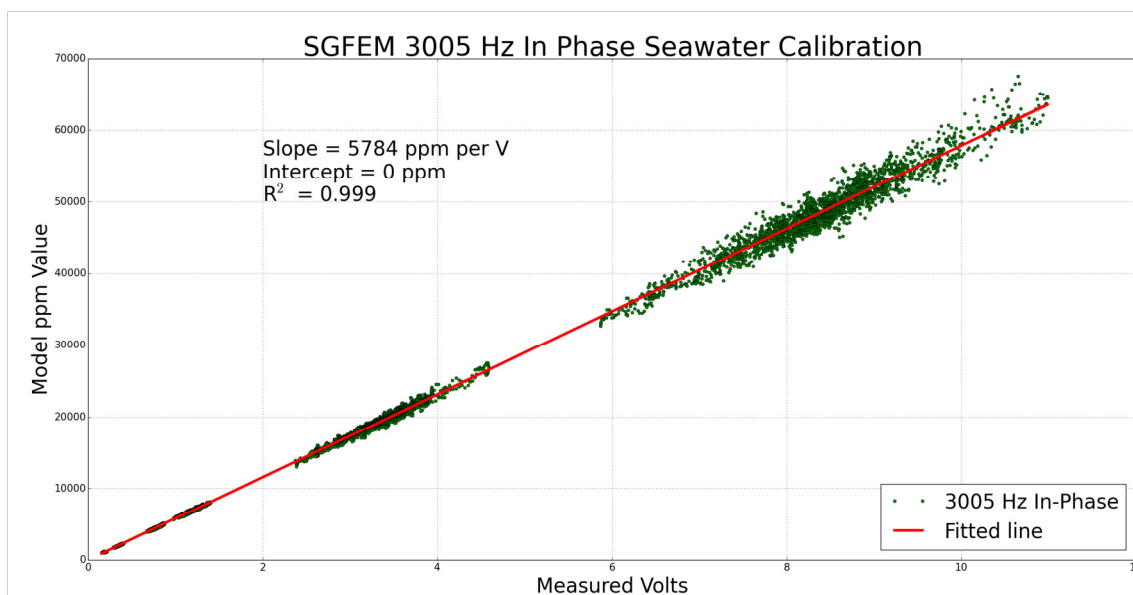


Figure 20: SGFEM 3005 Hz In Phase Seawater Calibration

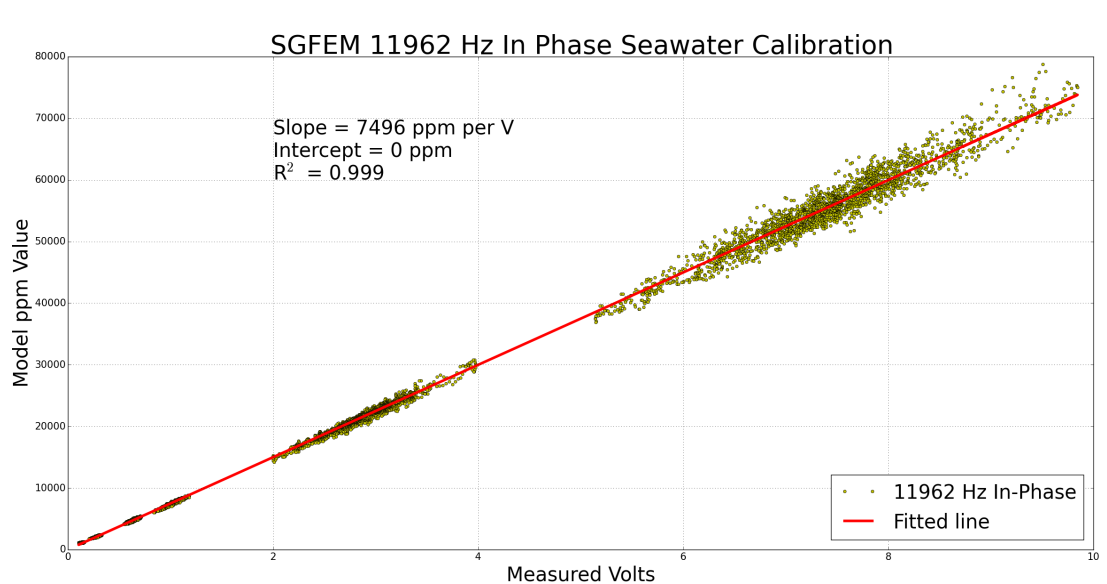


Figure 21: SGFEM 11962 Hz In Phase Seawater Calibration

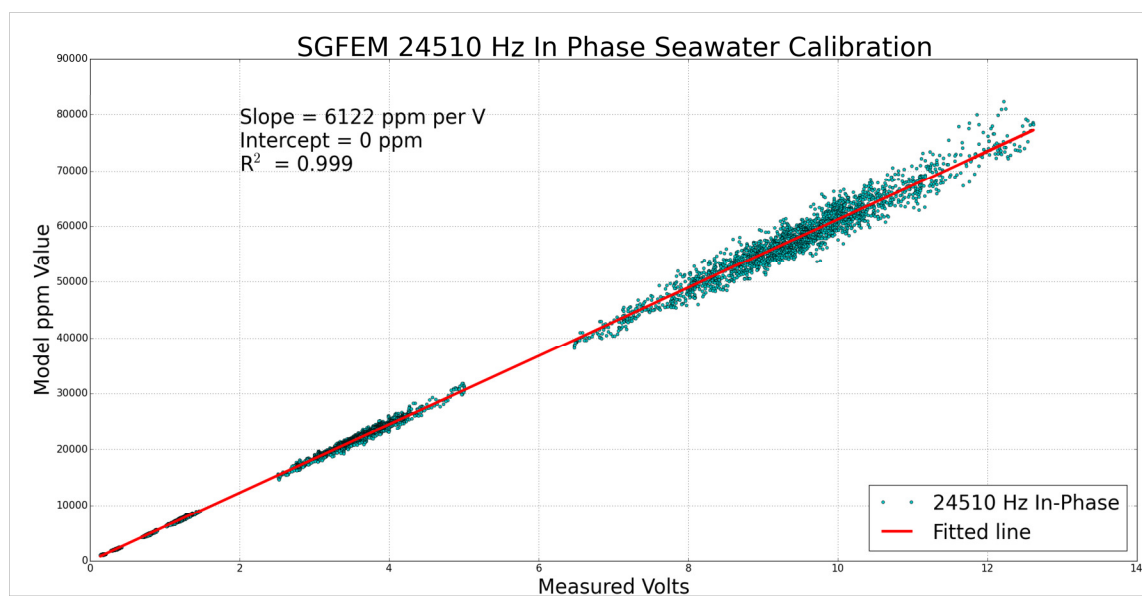


Figure 22: SGFEM 24510 Hz In Phase Seawater Calibration

EM Instrumentation Lag

The lag in the EM data is a function of two components, a static lag due to signal processing and a speed-dependent dynamic lag due to the physical offset of the EM coils and the GPS antenna. The static lag is known to be 0.70 s from the filters applied during signal processing. The dynamic lag is equal to the offset of the coils and GPS antenna along the long axis of the aircraft, known to be 2.888 m, divided by the flying speed. For this test the dynamic lag averaged 0.048 s, for a total lag of 0.748 s. The lag test was flown on October 29th, 2015 in Ireland, over a farm compound near the town of Derrinturn Co. Kildare. The results are shown in *Figure 23*.

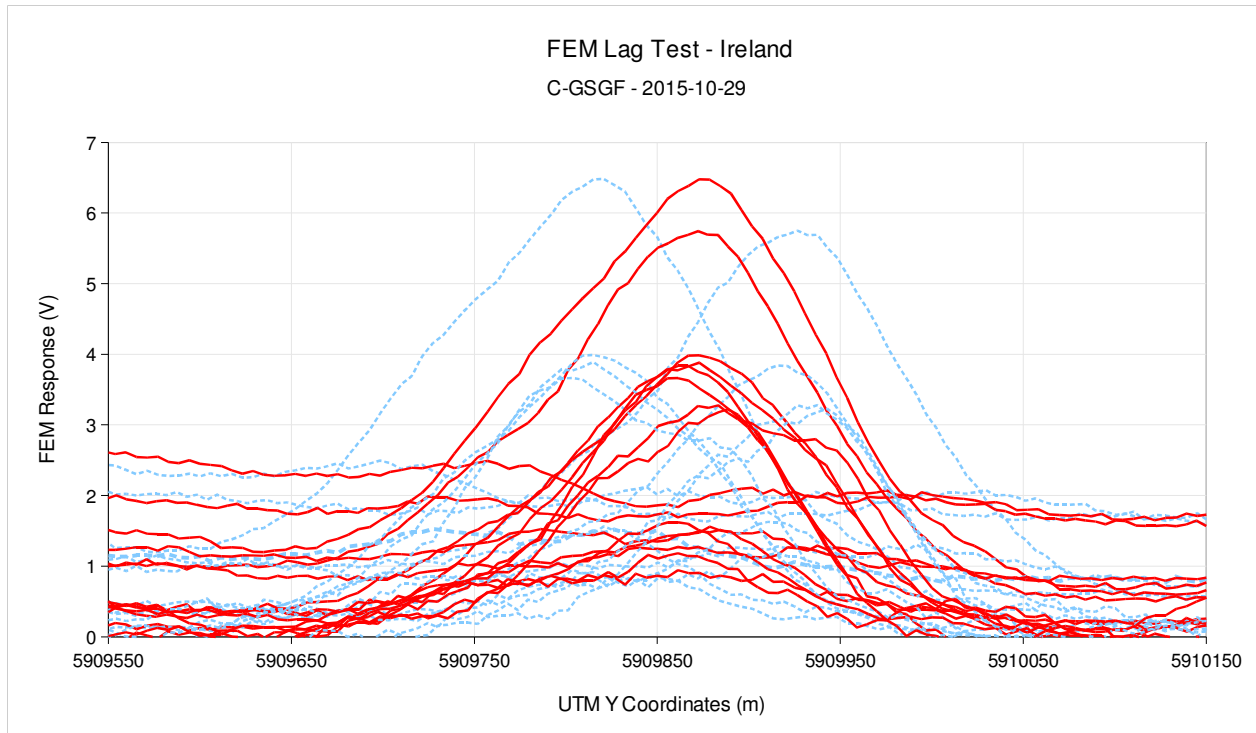


Figure 23: EM instrumentation lag test. The blue traces are the raw EM traces and the red traces are the lag corrected EM traces

EM Transmitter Noise

The effect of the FEM transmitter on the magnetic response was verified for the tail and wing sensors, while flying at high altitude (about 10,000 ft.). This was done by turning the EM transmitter OFF, then back ON. *Figure 24* and *Figure 25* show that the EM transmitter induces no effect on the magnetic signal from either sensor

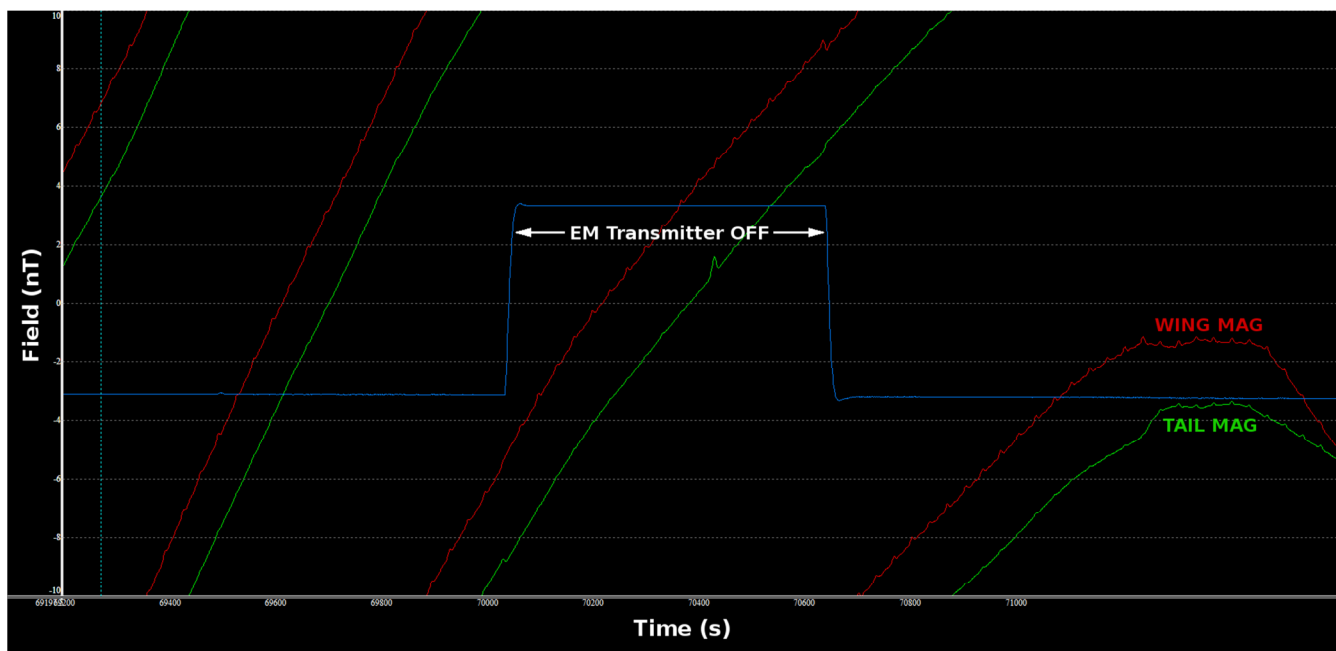


Figure 24: EM transmitter noise test, showing tail and wing magnetic sensor traces.

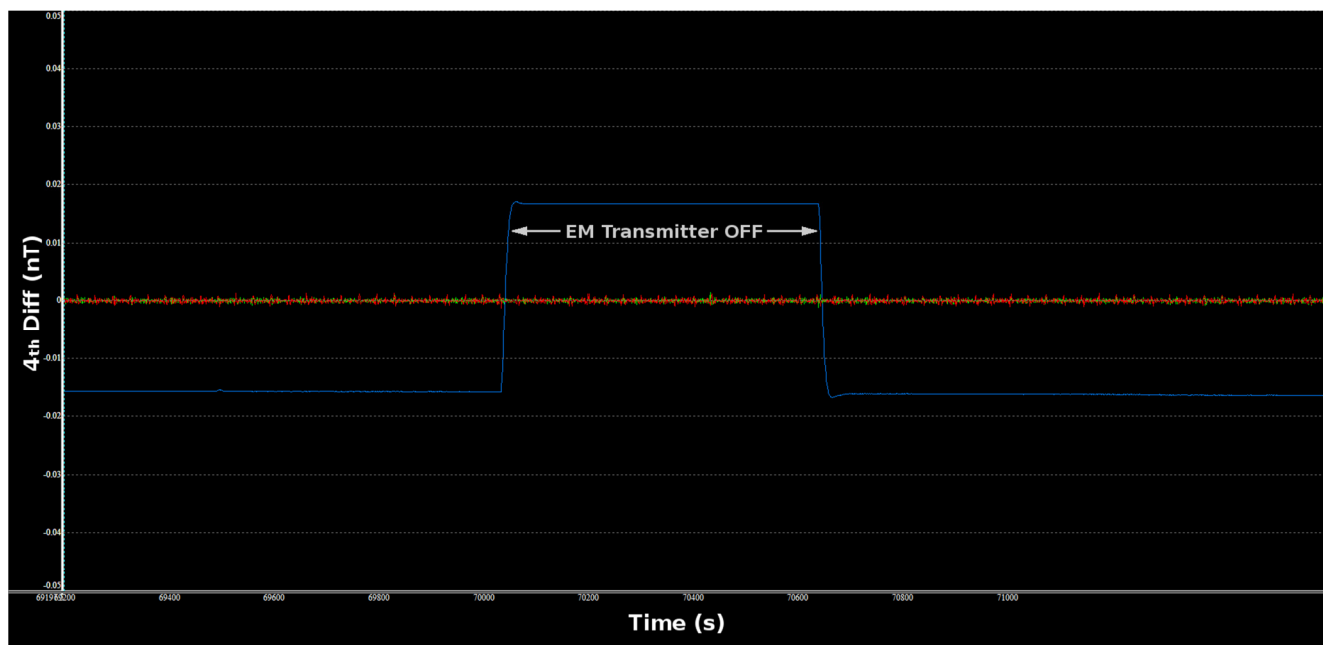


Figure 25: EM transmitter noise test, showing the 4th difference of the tail and wing magnetic sensor traces.

8. FIELD OPERATIONS

The field base for this project was located at Weston Airport, just outside of Dublin. Flight operations for the survey were conducted from the airport. The survey required 89 production flights, from June 29, 2015 to October 31, 2015. Weekly reports are provided in *Appendix VI*.

Mobilization of the SGL crew and equipment to Dublin began with the arrival of the field crew chief and lead pilot in Dublin. The survey aircraft arrived on June 21, 2015. The first magnetic ground station was installed on June 21, 2015 and a second magnetic ground station was installed on June 26, 2015. Magnetic compensation, magnetic heading and cosmic tests were flown on June 26, 2015, and the GSI test line and EM conductivity test were flown on June 27, 2015. Most system tests were carried out over Donegal Bay, near the GSI test line location.

The aircraft was parked on the northern side of the airport terminal building, and all survey flights departed from and return to this location. Power was available at the parking spot via an outlet in a nearby hanger. The position of the aircraft is shown in *Table 14*.

Table 14: Aircraft parking location in the WGS-84 datum

Latitude	Longitude	Elevation
N53°:21':23.22"	W06°:29':22.85"	47.2 m

Reference Stations

The two reference stations used for this project were installed at two different countryside properties just outside of Dublin. The first was placed in a small wooden shed, with the GPS antenna about 30 m away. The second was set up in an empty stable, with the antenna about 30 m away in a nearby field.



Picture 3: GPS Base Station Antennas

Triangulation using three reference stations from the International GPS Service (IGS) in conjunction with the Precise Point Positioning tool from Natural Resources Canada was used to differentially correct the GPS receiver location. Data from IGS stations HERT (Hailsham, United Kingdom), HERS (Hailsham, United Kingdom) and HOFN (Hoefn, Iceland) recorded on days 178, 179 and 180 were used.

The positions of the GPS antennas of the local reference stations after differential correction are shown in *Table 15*.

Table 15: GPS Reference Station Locations in the WGS-84 datum

Station	Latitude	Longitude	Elevation
GND1	N53°25'18.611229"	W06°33'59.911862"	133.7130 m
GND2	N53°25'57.802685"	W06°36'28.97828"	150.4940 m

Operational Issues

The proximity to Dublin international airport and the abundance of livestock and valuable race horses in the survey area created many challenges for the field crew. Diligent coordination was required with the PR firm representatives, as well as with the air traffic control tower at Dublin airport and various other smaller airports in the survey area. The rainy, and sometimes windy, weather also forced occasional production delays. Production was also briefly delayed by issues with the EM system that were promptly addressed and resolved. Reflights and partialled lines are listed in *Appendix IV*.

Field Personnel

The technical personnel of SGL that participated in field operations are given in *Table 16*.

Table 16: Field Personnel

Field Personnel	Name	Dates in Field
Operations Manager	Alex Pritchard	n/a
Field Crew Chief	Alison McCleary	Jun 9, 2015 – Nov 4, 2015
Data Processor	Monika Pal	Jun 22, 2015 – Sep 20, 2015
Data Processor	Max Buneta	Sep 16, 2015 – Nov 5, 2015
Technician	Craig McMahon	Jun 21, 2015 – Jul 5, 2015 Jul 11, 2015 – Aug 27, 2015
Technician	Edward McEwen	Aug 23, 2015 – Oct 31, 2015
Lead Pilot	Steve Gebhardt	Jun 9, 2015 – Nov 4, 2015
Chief Pilot	Todd Svarckopf	Jun 21, 2015 – Jul 2, 2015
Pilot	Charles Dicks	Jun 21, 2015 – Nov 12, 2015
Pilot	Jason Thomas	July 2, 2015 – Aug 19, 2015
Pilot	Jeff Tucker	Jul 2, 2015 – Oct 1, 2015
Pilot	Matt Gillespie	Oct 1, 2015 – Oct 21, 2015
Pilot	André Lafontaine	Oct 5, 2015 – Nov 12, 2015
AME	Dwayne Bailey	Jun 18, 2015 – Aug 15, 2015
AME	Vincent Doyle	Aug 13, 2015 – Aug 27, 2015
AME	John Sevenhuysen	Aug 29, 2015 – Nov 12, 2015

9. DIGITAL DATA COMPILATION

Preliminary processing for on-site quality control was performed in the field as each flight was completed. This included verifying the data on the computer screen, generating traces of all of the data channels, and creating preliminary data grids.

Magnetometer Data

A magnetic data flowchart is presented in *Figure 26*. The airborne magnetometer data were recorded at 160 Hz, and down sampled to 10 Hz for processing. All magnetic data were plotted and checked for any spikes or noise. A 0.244 s static lag correction due to signal processing, plus a dynamic lag correction averaging 0.218 s depending on the instantaneous velocity of the aircraft was applied to each data point. The aircraft speed dependent dynamic lag was calculated using SGL's Dynlag software.

The ground based reference magnetometer data were inspected for cultural interference and edited where necessary. Due to the close proximity of the reference station magnetometers to the survey area, the higher frequency diurnal activity in the block and at the reference stations correlates reasonably well. All reference station magnetometer data were filtered using a 369-point low pass filter to remove any high frequency signal, but retain the low frequency diurnal variations.

A correction for the International Geomagnetic Reference Field (IGRF) year 2015 model, was extrapolated for all ground magnetometer data using the fixed ground station location and the recorded date for each flight. The mean residual value of the reference stations calculated to be 26.060 nT for GND1 and 32.473 nT for GND2 were subtracted from the respective ground station data to remove any bias from the local anomalous field. Diurnal variations in the airborne magnetometer data were removed by subtracting the corrected reference station data.

The airborne magnetometer data were corrected for the IGRF using the location, altitude, and date of each point. IGRF values were calculated using the year 2015 IGRF model. The altitude data used for the IGRF corrections are DGPS heights above the GRS-80 ellipsoid.

Height Correction

The survey was flown in radar guidance mode in order to stay as close to the target survey altitude of 60 m as much as possible. This approach was adopted in order to optimize the acquisition of frequency domain electromagnetic (FEM) data which is known to drop off in signal strength rapidly. Little reliable FEM data is acquired at heights of 200 to 250 m above ground depending on the signal frequency and the conductivity of the ground, and the lower the survey is flown, the higher the signal to noise ratio for all frequencies.

By adopting a flying strategy optimized for FEM data, drape flying was not possible, resulting in survey lines flown at different altitudes in adjacent lines and at intersections between traverse and control lines. Inevitably this results in differences in the spectral content of airborne magnetic data where the survey height above ground was inconsistent. At low

altitudes, even relatively small differences in altitude may result in significant changes in spectral content of the magnetic data. Amplitude of magnetic signal drops off with height at an exponential rate proportional to the frequency of the signal, so that high frequency signal in particular changes rapidly with small changes in altitude close to the ground. Correcting for such changes using traditional levelling methods can be challenging since there is no way to properly extrapolate corrections from miss-ties at intersections due to altitude differences. Therefore, there is an advantage to correcting the airborne data for height variation before attempting levelling.

In order to correct magnetic data for altitude variation, we first need to define a consistent surface that will be used as a reference height. This can be a surface of constant height with respect to the ellipsoid or a "virtual" drape surface. The drape surface approach has the advantage of retaining as much of the recorded signal content as possible whilst achieving consistency of height at intersections and smoothly varying heights between adjacent lines. The reference drape surface was made based on a grid of the height of the survey lines as actually flown. At intersections where traverse and control lines cross, the higher of the two is used. The resultant surface is then converted to a smooth drape using a climb rate of 500 feet/nMile. This ensures that the reference surface is always at or slightly higher than the altitude as flown so that all corrections for height can be achieved using a stable upward continuation operation.

To determine the height corrections, a preliminary version of the levelled data is created that uses heavy micro-levelling to temporarily account for the height differences. A grid of the preliminary levelled magnetic data is then upwardly continued by a range of distances up to the maximum separation between the survey altitude as flown and the reference surface. The mean separation is 27 m, up to a maximum of 373 m in the hills in the southeast corner of the survey, although most of the height corrections are the result of flying over towns. Using a grid based method allows cross line gradients in the data to be taken into account and is therefore superior to profile based methods. The height correction is then applied to the unlevelled data, and final levelling is then performed.

Levelling

Intersections between control and traverse lines were determined by a program which extracts the magnetic, altitude, and x and y values of the traverse and control lines at each intersection point. Each control line was adjusted by a constant value to minimize the intersection differences, calculated as follows:

$$\sum |i - a| \text{ summed over all traverse lines}$$

where, i = (individual intersection difference)
 a = (average intersection difference for that traverse line)

Adjusted control lines were further corrected locally to minimize any residual differences. Traverse line levelling was carried out by a program that interpolates and extrapolates levelling values for each point based on the two closest levelling values. After traverse lines have been levelled, the control lines are matched to them. This ensures that all intersections tie perfectly and permits the use of all data in the final products.

CLEVEL provides a curved correction using a function similar to spline interpolation. A third degree polynomial is used to interpolate between two intersections and the two values and two derivatives are chosen to determine the polynomial. CLEVEL is an improved method as it allows intersection points to be preserved with no mismatch and interpolation is smooth with the first derivative continuously approaching the same value from both sides of the intersection points.

The levelling procedure was verified through inspection of Total Magnetic Intensity (TMI) and vertical derivative grids, plotting profiles of corrections along lines, and examining levelling statistics to check for steep correction gradients.

Micro-Levelling

Micro-levelling was applied to remove any residual diurnal and/or height related artifacts from the data. This was achieved by using directional filters to identify and remove artifacts that are long wavelengths parallel to survey lines and short wavelengths perpendicular to survey lines. A limit of ± 2.75 nT was set for all micro-levelling corrections.

Gridding

The grid of the total magnetic intensity was made using a minimum curvature algorithm to create a two-dimensional grid equally sampled in the x and y directions. The algorithm produces a smooth grid by iteratively solving a set of difference equations minimizing the total second horizontal derivative while attempting to honour the input data (Briggs, I.C, 1974, *Geophysics*, v 39, no. 1). The final grids of the magnetic data were created with 50 m grid cell size appropriate for survey lines spaced at 200 m.

MAGNETOMETER DATA PROCESSING

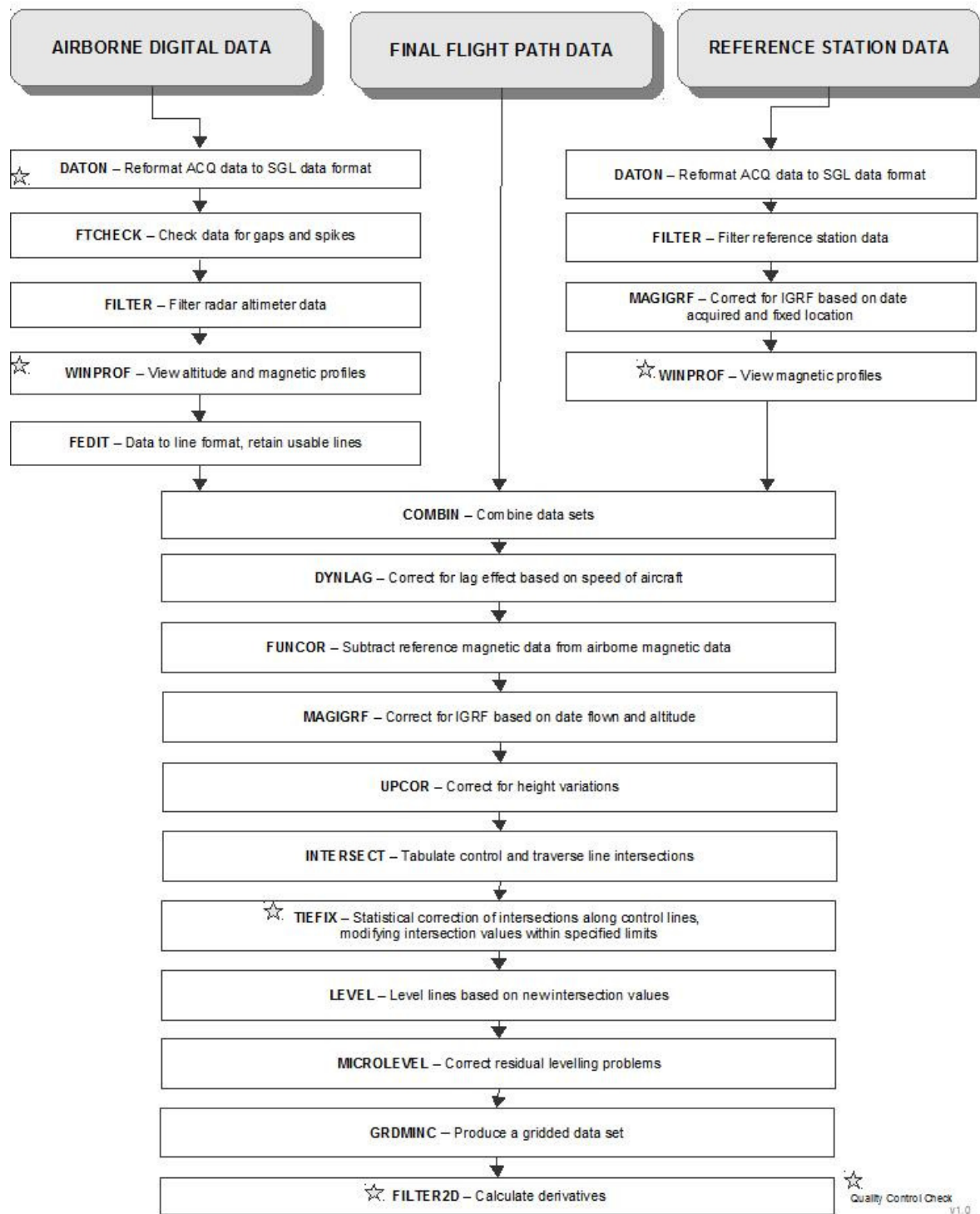
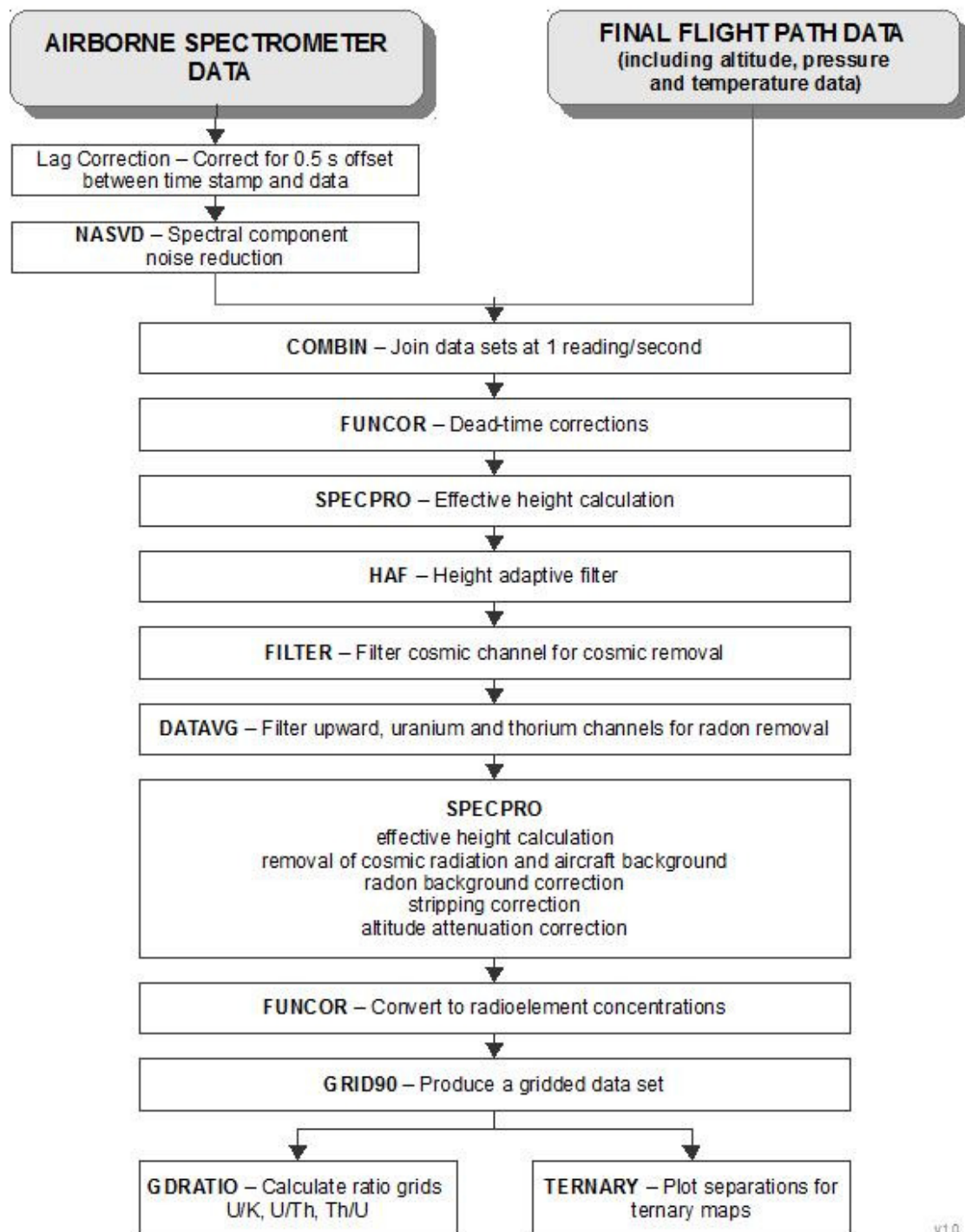


Figure 26: Magnetometer data processing flowchart

SPECTROMETER DATA PROCESSING



v1.0

Figure 27: Spectrometer data processing flowchart

Spectrometer Data

A spectrometer data compilation flowchart is presented in *Figure 27*.

A 0.5 second lag correction was applied to all data to correct for the time delay between detection and recording of the airborne data. The data were recorded at 1 Hz in asynchronous mode, and subsequently interpolated to 1 Hz synchronous data on the exact second.

Spectral Component Analysis

Raw 256 channel spectrometer data were analyzed using noise adjusted singular value decomposition (NASVD; J. Hovgaard and R L. Grasty paper 98; Geophysics and Geochemistry at the Millennium, Proceedings of the 4th Decennial International Conference on Mineral Exploration, 1997). Normalization with respect to the count rate is achieved by dividing each measured spectrum by the square root of the best fit of the mean spectra, i.e. component zero. The NASVD method determines the components in order of significance with respect to the amount of variance in the data they describe. Each component is a spectrum with 256 channels. In theory, there are as many components as there are channels. Variation in the signal is accounted for by the low order components, and variation due to noise is accounted for by the higher order components. Spectra are reconstructed from the low order signal only components, and the count rates in the standard windows are recalculated.

It was determined that the separation of signal and noise was more effective if data from above and below 200 m agl were analyzed separately. Components 0 to 10 plus component 13 were retained for the lower flown data (See *Appendix VIII*) and components 0 to 13 were retained for the higher flown data (See *Appendix IX*).

Standard Corrections

Spectrometer data were corrected as documented in the Geological Survey of Canada Open File No. 109 and the IAEA report "Airborne gamma-ray spectrometer surveying; Technical Report Series No. 323 (International Atomic Energy Agency, Vienna). The gamma-ray spectroscopy processing parameters are shown in *Table 17*. Parameters are adjusted during processing through analysis of the corrections applied, and therefore may differ from those determined from calibration test flight data.

Table 17: Spectrometer processing parameters

Spectrometer Processing Parameters		
Window	Cosmic Stripping Ratio (b)	Aircraft Background (a)
Total	0.6563	65.74
Potassium	0.0390	15.62
Uranium	0.0314	0.00
Thorium	0.0372	0.72
Upward	0.0084	0.56
Radon Component	a	b
Total (I _r)	13.2227	0.0000
Potassium (K _r)	0.8310	0.0000
Thorium (T _r)	0.0000	0.4640
Up (u _r)	0.2410	0.2454
Ground Component	a ₁	a ₂
Up (u _g)	0.0409	0.0153
Stripping Ratios	Contribution on the Ground	Effective Height Adjustment (m ⁻¹)
α	0.2512	0.00049
β	0.3999	0.00065
γ	0.7445	0.00069
a	0.0416	
b	0.0000	
g	0.0041	
Attenuation Coefficients (m ⁻¹)		
Total	-0.006800	
Potassium	-0.009300	
Uranium	-0.005800	
Thorium	-0.007400	
Sensitivities		
Potassium	164.54 cps/%	
Uranium	20.74 cps/ppm	
Thorium	8.12 cps/ppm	

Before gridding, the following corrections were applied to the spectrometer data in the order shown:

Dead-time correction

The system live time was recorded by the spectrometer and represents the time that the system was available to accept incoming gamma radiation pulses. Live time is reduced, and dead-time increased, as count rates increase and the time taken by the spectrometer to process measured pulses increases. The cosmic channel does not receive a dead-time correction as it is processed by separate circuitry in a GR820 spectrometer. The dead-time correction was applied to each window in both the upward and downward looking detector data using the following equation:

$$N = \frac{n}{t}$$

where, N = the corrected count rate in each channel

n = the raw count recorded in each second

t = the recorded live time (fraction of a second).

Calculation of effective height above ground level (AGL)

A 21-point low pass filter (see Appendix VII) was applied to 10 Hz radar altimeter data, and a 131-point low pass filter (see Appendix VII) was applied to 10 Hz barometric altimeter data. The barometric altimeter data was then converted to equivalent pressure and used with the digitally recorded temperature to convert the radar altimeter data to effective height at standard pressure and temperature (STP) as follows:

$$h_e = h \times \frac{273.15}{T + 273.15} \times \frac{P}{101.325}$$

where, h_e = the effective height

h = the observed radar altitude in metres

T = the observed air temperature in degrees Celsius and

P = the observed barometric pressure in millibars.

Height adaptive filter

Adaptive filters were applied between 300 m and 400 m effective height to improve the signal-to-noise ratio for Potassium, Thorium and Total Count, and between 150 m and 400 m for Uranium. A moving average filter is applied to data and the degree of filtering applied increases gradually up to 400 m up to a maximum of a 9 point running average. Data collected at a terrain clearance greater than 500 m are often considered unreliable due to the low count rates and consequent low signal to noise ratio, but the maximum effective height for this survey was 427 m so the issue does not arise.

Removal of cosmic radiation and aircraft background radiation

A 67-point low pass filter (see *Appendix VII*) is applied to 1 Hz cosmic data to reduce statistical noise. Cosmic radiation and aircraft background radiation are removed from each spectral window using the cosmic coefficients and aircraft background values determined from test flight data using the following equation:

$$N = a + b C$$

where, N = the combined cosmic and aircraft background in each spectral window,
 a = the aircraft background in the window,
 b = the cosmic stripping factor for the window, and
 C = the cosmic channel count.

Radon background corrections

A 199-point running average filter is applied to 1 Hz downward uranium, downward thorium and upward uranium count data for the purposes of the radon correction only. The radon component in the uranium window is calculated using the radon coefficients determined from the survey data using the following equation:

$$U_r = \frac{u - a_1 U - a_2 T + a_2 b_T - b_u}{a_u - a_1 - a_2 a_T}$$

where, U_r = the radon background measured in the downward uranium window,
 u = the filtered observed count in the upward uranium window,
 U = the filtered observed count in the downward uranium window,
 T = the filtered observed count in the downward thorium window,
 a_1 and a_2 = the ground component coefficients,
 a_u and b_u = the radon coefficients for uranium,
 a_T and b_T = the radon coefficients for thorium.

The radon counts in the uranium upward window and the potassium, thorium and total count downward windows are calculated from U_r using the following equations:

$$\begin{aligned} u_r &= a_u U_r + b_u \\ K_r &= a_K U_r + b_K \\ T_r &= a_T U_r + b_T \\ I_r &= a_I U_r + b_I \end{aligned}$$

Where u_r is the radon component in the upward uranium window, K_r , U_r , T_r and I_r are the radon components in the various windows of the downward detectors, and a and b are the radon calibration coefficients.

Stripping

The stripping ratios for the spectrometer system are determined experimentally. The stripped count rates for the potassium, uranium and thorium downward windows are calculated using the following equations:

$$\begin{aligned}
 N_K &= \frac{n_{Th}(\alpha\gamma - \beta) + n_U(\alpha\beta - \gamma) + n_K(1 - a\alpha)}{A} N_U \\
 &= \frac{n_{Th}(g\beta - \alpha) + n_U(1 - b\beta) + n_K(b\alpha - g)}{A} N_{Th} \\
 &= \frac{n_{Th}(1 - g\gamma) + n_U(b\gamma - a) + n_K(ag - b)}{A}
 \end{aligned}$$

where A has the value:

$$A = 1 - g\gamma - a(\alpha - g\beta) - b(\beta - \alpha\gamma)$$

and where,

- n_K, n_U and n_{Th} = the unstripped potassium, uranium and thorium downward windows counts,
- N_K, N_U and N_{Th} = the stripped potassium, uranium and thorium downward windows counts,
- α, β , and γ = the forward stripping ratios, and
- a, b and g = the reverse stripping ratios.

α, β , and γ are adjusted for effective height (as calculated above) by standard factors given in *Table 17 Spectrometer Processing Parameters*.

Altitude attenuation correction

This correction normalizes the data to a constant terrain clearance of 60 m above ground level (AGL) at standard temperature and pressure (STP). Attenuation coefficients for each of the downward windows were determined from test flights. The measured count rate is related to the actual count rate at the nominal survey altitude by the equation:

$$N_s = N_m (e^{\mu(h_o - h)})$$

- where, N_s = the count rate normalized to the nominal survey altitude, h_o ,
- N_m = the background corrected, stripped count rate at effective height h ,
- μ = the attenuation coefficient for that window,
- h_o = the nominal survey altitude, and
- h = the effective height.

The effective height was determined in step 2).

Correction for the effects of Precipitation

Scale factors were applied to flights in which rain affected measured count rates. See *Appendix X* for a list of factors applied.

Conversion to radio element concentration

Sensitivities are determined experimentally from the test flight data. The units of the count rates in each spectral window are converted to "apparent radio element concentrations" using the following equation:

$$C = \frac{N}{S}$$

where, C = the concentration of the element(s)
 N = the count rate for the window after correction for
 dead-time, background, stripping and attenuation
 S = the broad source sensitivity for the window

Potassium concentration is expressed as a percentage and equivalent uranium and thorium as parts per million of the accepted standards. Uranium and thorium are described as "equivalent" since their presence is inferred from gamma-ray radiation from daughter elements (^{214}Bi for uranium, ^{208}Tl for thorium).

The sensitivity coefficients applied are those given in *Table 17* that are adjusted to reconcile the Block A1 data acquired in 2015 with the Block A2 data acquired in 2016 as described under "*System Sensitivity*" in Section 6. In addition the total count is scaled by a factor of 1.32 to account for both changes in conditions between flying the two surveys and the increased crystal volume employed in 2016.

Data gridding

A cosine weighted moving average gridding algorithm is considered appropriate for gridding gamma-ray data. The method generates a 2-dimensional grid, equally incremented in x and y, from randomly placed data points. Radiometric data for each cell are derived from a circular average within a radius of 305 m with a cosine weighting function that gives greatest weight to data located closest to the cell centre. The radiometric data were interpolated to a 50 m grid cell size appropriate for survey lines spaced at 200 m. Control and test lines were not included in the grids.

Frequency-Domain Electromagnetic Data

A flowchart showing all the data processing steps can be found in *Figure 32*.

The airborne electromagnetic data were recorded in volts at 40 Hz, and down sampled to 10 Hz for processing. The data were recorded at four frequencies (912 Hz, 3005 Hz, 11962 Hz and 24510 Hz) each with two components, in-phase with the source pulse and out of phase "quadrature" each expressed as volts. The data were visually inspected for spikes and noise. Identification of cultural interference is assisted by the Power Line Monitor, and radio calls are detected and recorded in a flag channel that is 1 when a call is made, and 0 otherwise.

Lag

A +0.70 s static lag correction due to signal processing was applied to each data point. In addition a variable lag correction is applied that is a function of speed and the physical offset between the GPS antenna on the aircraft cabin and the electromagnetic pods as measured along the long axis of the aircraft, known to be 2.888 m. Therefore, the total lag applied is equal to $(0.70 + (2.888/v))$ s where v is the instantaneous velocity of the aircraft in m/s. The aircraft speed dependent lag is calculated using SGL's Dynlag software.

Interactive Single Flight, Zero Level Correction For Non-Linear Drift

The zero level of the system can drift, possibly due to variations in the temperature of the air outside and inside the aircraft, and the instrument components. SGL uses a method similar to that described by Leväniemi et. al (2009, Journal of Applied Geophysics, 67, 219-233). The data is often zero when the survey aircraft is more than 250 m above resistive ground, and we can use these regions to define a curve of corrections which brings the data to the correct level on a flight by flight basis. The start and end of the correction curve for each flight were set to coincide with the zero level calibration pulse procedure which is performed at approximately 350 m above ground before and after flying the survey lines. Intermediate points during production were determined when the aircraft ascended to flying heights of over 120m to 250 m above resistive ground, particularly when flying over obstacles or ferrying between sections of the survey block. The EM response data at the start, end and intermediate points are shifted until they are zero. Shifts between the known zero points are interpolated using a cubic spline to define the full correction curve in between. A separate correction curve is required for the in-phase and quadrature data of each frequency and is subtracted from the observed data. The drift curve is centred on the noise envelope of the data, which varies between frequencies (see below), therefore when the base level is near zero some negative data will occur.

Conversion to PPM

Drift corrected data in volts is converted to parts per million (ppm) of the source signal using the calibration coefficients described in the section "EM Over Seawater Calibration" earlier in this report. The sea water calibration assumes a homogeneous half space which allows modelling in ppm, which when compared to the measured voltages allows calibration coefficients to be determined.

Derotation

The pre and post flight phase orthogonality test is used to verify that the in-phase and quadrature data are at 90° to each other (see "EM Source Orthogonality" earlier in this report). If an in-phase response is detected in the quadrature signal for any frequency, or vice versa, for a given flight, a derotation correction is applied on a flight by flight basis, linearly interpolated between the pre- and post-flight calibration. The following formulae are applied to each component and frequency as necessary:

$$I' = I \cos \theta_i + Q \sin \theta_i$$

$$Q' = Q \cos \theta_q - I \sin \theta_q$$

where:

I = Observed in-phase signal,
 I' = Derotated in-phase signal,
 Q = Observed quadrature signal,
 Q' = Derotated quadrature signal,
 and
 θ_i, θ_q = angle of rotation from orthogonality.

θ_i , and θ_q are determined experimentally until the rotation effect is removed from the orthogonality test data. The standard deviation of the rotations applied varies between one and seven degrees, with the larger rotations at the end of the flights in the 11 and 24 kHz channels.

Filtering

A 1 second (10 sample) Hanning FIR low pass filter is applied to each component and frequency of EM signal to reduce the high-frequency (out of the earth signal range) noise envelope.

Levelling

Data from each flight is split into lines for the purpose of levelling. Averages are calculated, first by flight and then by line (two pass approach) in order to determine zero order ("DC shift") corrections to each survey flight/line to bring them to a level with neighbouring flights/lines. Following the zero order corrections, differential polynomial levelling following the method of Beiki et. al (2010, Geophysics, Vol. 75, No. 1, L13-L23) is used as a third and last set of corrections. The algorithm is based on polynomial fitting of data points in 1D and 2D sliding windows. The levelling error is taken as the difference between 1D and 2D polynomial fitted data at the centre of the windows. Polynomials of order 1 were used along with a search radius of 600 meters for all components, and the long wavelength (>200s) correction for the line is applied to bring each line to the same zero base level. Manual adjustments to the line-by-line levelling are applied to render correctly levelled apparent resistivity. The procedure introduces an overall shift to the entire data set, each component and frequency is shifted back to its average pre-levelling level. The shifts applied are as follows:

Component	Base Level Shift (ppm)
912 Hz in-phase	65.88
912 Hz quadrature	136.25
3005 Hz in-phase	167.61
3005 Hz quadrature	383.05
11962 Hz in-phase	528.69
11962 Hz quadrature	794.48
24510 Hz in-phase	863.54
24510 Hz quadrature	881.40

Conversion to Resistivity

A look-up procedure employing the in-phase and quadrature data components at each frequency was used to calculate resistivity and an associated apparent height of the sensor over an assumed conductive homogeneous half-space. For a properly calibrated system over a conductive, uniform earth the apparent height will be exactly the altitude above the surface; for example, over sea water the apparent height will be the same as the height of the altimeter. Using the Airbeo program (<http://www.electromag.com.au/csiro.php>) the ground was modelled as a homogeneous halfspace with constant rock properties. Heights of the look-up table are modelled from 16 m to 240 m below the surface at 2 m intervals, while the resistivity sampling was from 0.001 ohm.m to 79,432 ohm.m using a uniform logarithmic sampling interval of 20 points per decade. Nomograms that display the relationship between the phase, quadrature, resistivity and depth for the survey parameters as flown are shown in Figure 28 to Figure 31.

When deriving resistivity, lower limits are placed on the in-phase and quadrature data so that spurious values are not derived from data that falls below the noise threshold. The minimum limits employed are as follows:

Frequency (Hz)	912		3005		11962		24510	
Component	In_Phase	Quadrature	In_Phase	Quadrature	In_Phase	Quadrature	In_Phase	Quadrature
Minimum (ppm)	20	50	30	30	30	30	30	30

In each case if the minimum limit is reached, the value is capped and the limited value employed in the calculation. Therefore if the limit is reached for both in-phase and quadrature for any given frequency, the resistivity is capped at a known minimum value. In addition, a maximum resistivity value set at half the frequency value is also set to avoid spuriously high values being derived. The resultant minimum and maximum values for each frequency are as follows:

Frequency (Hz)	912	3005	11962	24510
Minimum (ohm-m)	0.1	0.1	0.1	0.1
Maximum (ohm-m)	456	1503	5981	12255

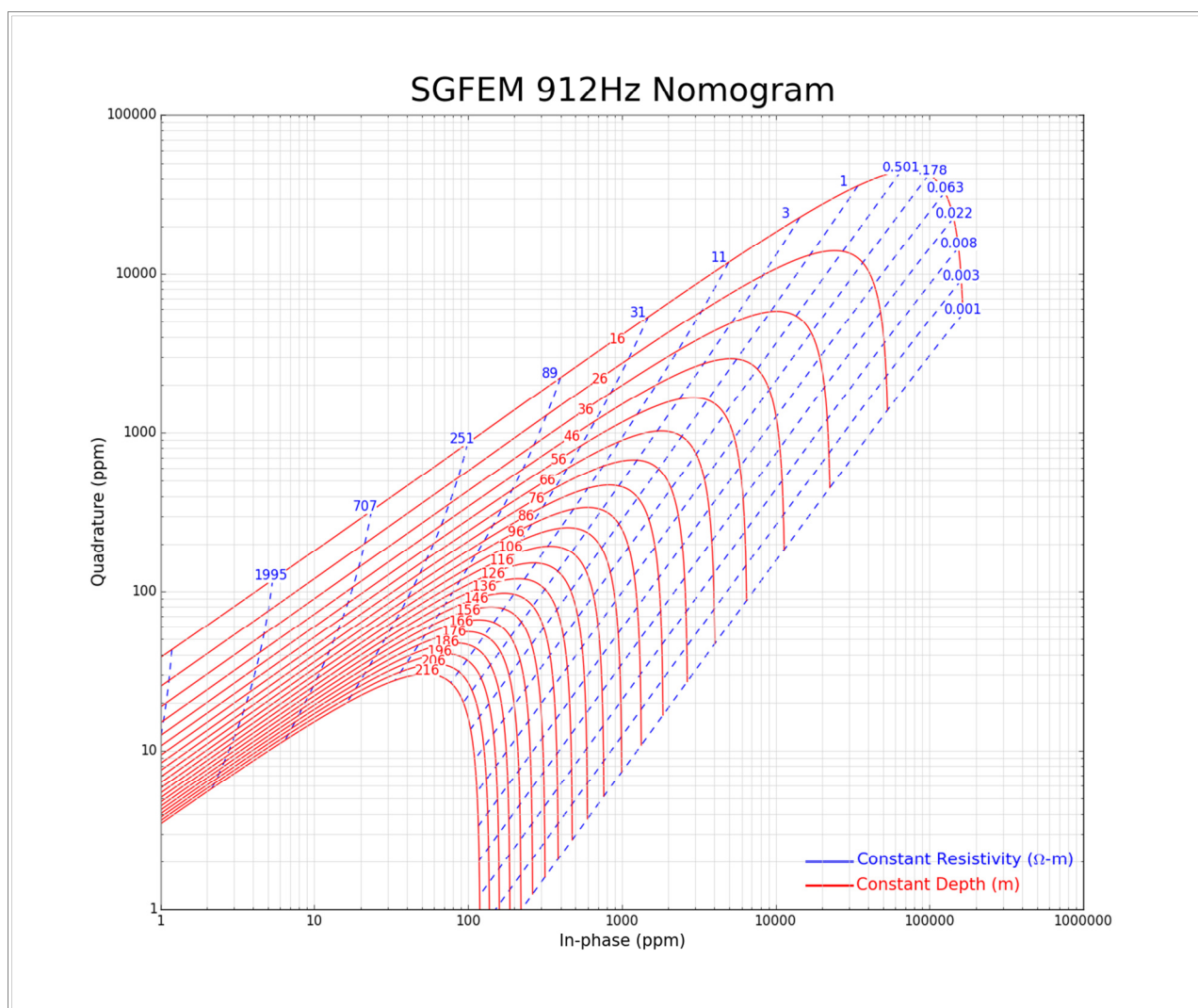


Figure 28: SGFEM 912Hz Nomogram

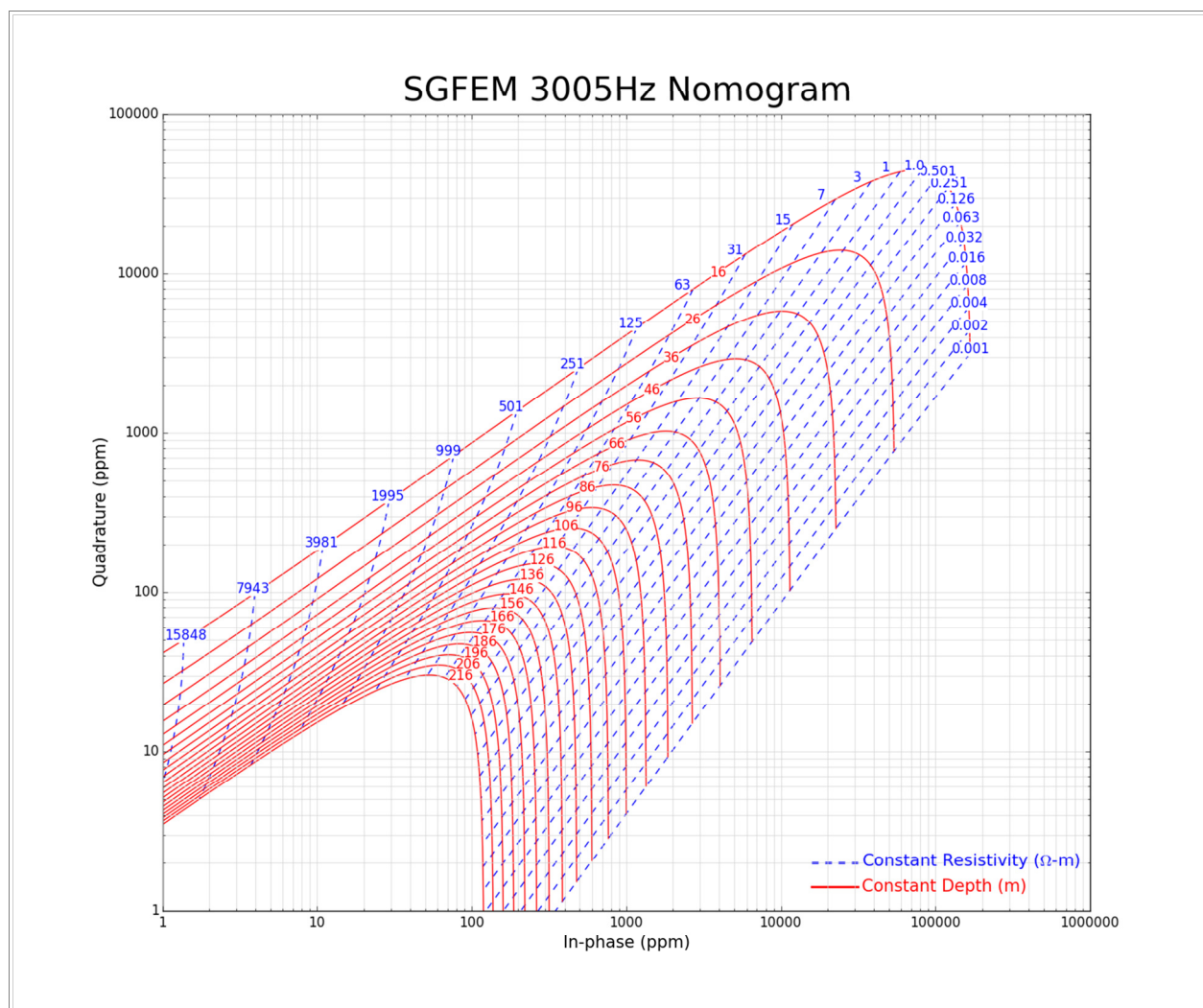


Figure 29: SGFEM 3005Hz Nomogram

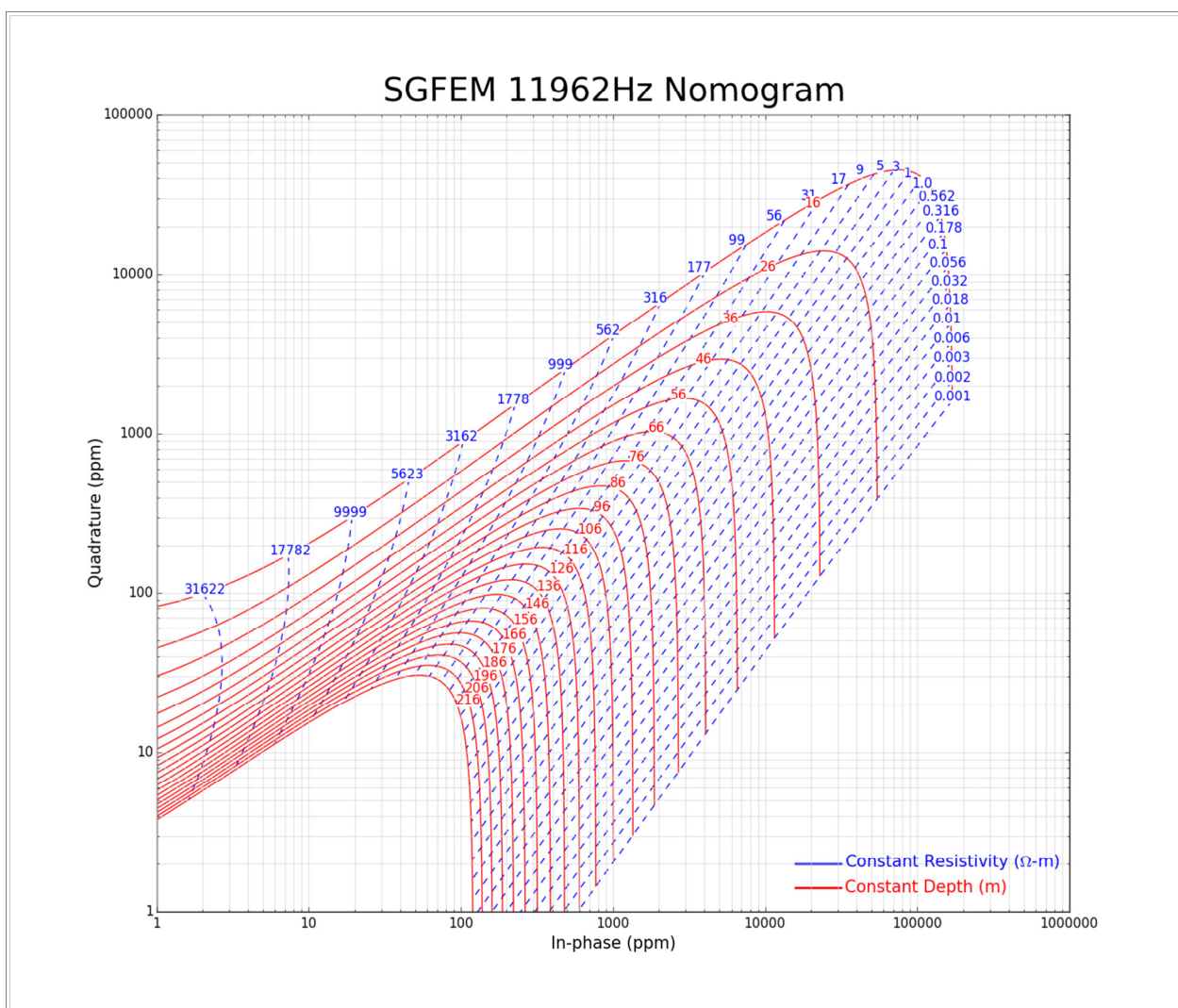


Figure 30: SGFEM 11962Hz Nomogram

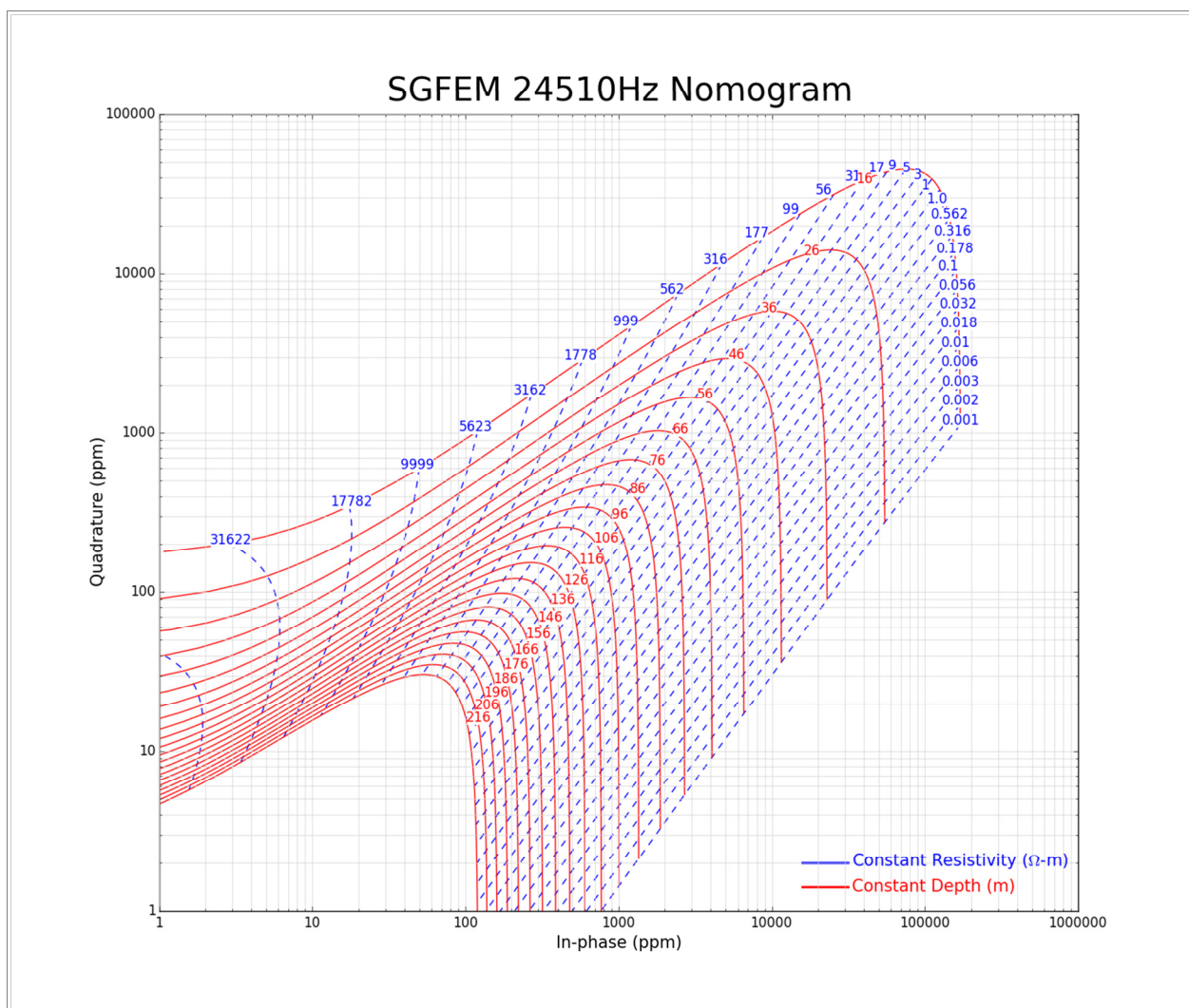


Figure 31: SGFEM 24510Hz Nomogram

Gridding

All grids were made using a bi-directional Akima spline gridding routine which is appropriate for the high range of EM data. The final grids of the electromagnetic data were created with 50 m grid cell size appropriate for survey lines spaced at 200 m.

Microlevelling

For the purpose of micro-levelling, the natural log value of each resistivity is calculated. This is done because small changes in low resistivity values are as measurable and significant as large changes in large resistivity values. Micro-levelling was applied using the natural log grids to remove residual levelling errors from the gridded natural log of resistivity data. This was achieved by using a combined directional cosine filter and high pass Butterworth filter to

identify and remove artifacts that are long wavelength parallel to survey lines and short wavelengths perpendicular to survey lines. A limit of ± 0.2 was set for all microlevelling corrections. The cut-off wavelength of the directional Butterworth filter was chosen to be 800 meters for each frequency and component.

Conductivity Depth Slices

The Conductivity Depth Image (CDI) used here is the type of apparent resistivity section first defined by Sengpiel (1988, *Geophysical Prospecting* v.36 p.446-459) then refined in Sengpiel and Siemon (1998, *Exploration Geophysics* v.9 p.133-141). The conductivity depth section is created by assigning "a centroid depth z^* to the half-space resistivity ρ_a " (Sengpiel and Siemon, 1998).

The centroid depth $z_p^* = D_a - h_0 + \rho_a/2$

where:

D_a is the apparent height above ground (see above),

h_0 is the measured height above ground (eg. from laser or radar altimeter)'

and

ρ_a is the skin depth = $503 \sqrt{(\text{resistivity}/\text{frequency})}$.

At SGL we do not use the $(D_a - h_0)$ term in calculation of the centroid depth because in conditions where the measured altitude is affected by tree cover this will add an artificial error to the centroid depth. Also in conditions of near-surface conductivity the negative apparent depth $(D_a - h_0)$ is not directly equivalent to the depth of the layer. Therefore in our calculations, the centroid depth is equal to the skin depth divided by two as defined above.

A series of profiles are created for each resistivity and depth along each survey line. In cases where the profiles cross, preference is given to the shallower profile derived from the higher frequency which is considered to be more reliable. The resistivity is then interpolated linearly vertically between the profiles and the lowest resistivity profile value is projected for an additional depth equal to 25% of the depth of the lowest profile to create the full CDI.

Depth Slices

The final step is to extract resistivity at specific depths from the CDIs of each survey line and grid them using a bi-directional Akima spline gridding algorithm to provide maps of resistivity at specific depths, or so called "depth slices". Depth slices at 10m, 30m and 100m below the surface have been generated. The gridded data is micro-levelled to produce an even grid without line related artifacts.

FREQUENCY-DOMAIN ELECTROMAGNETIC DATA PROCESSING

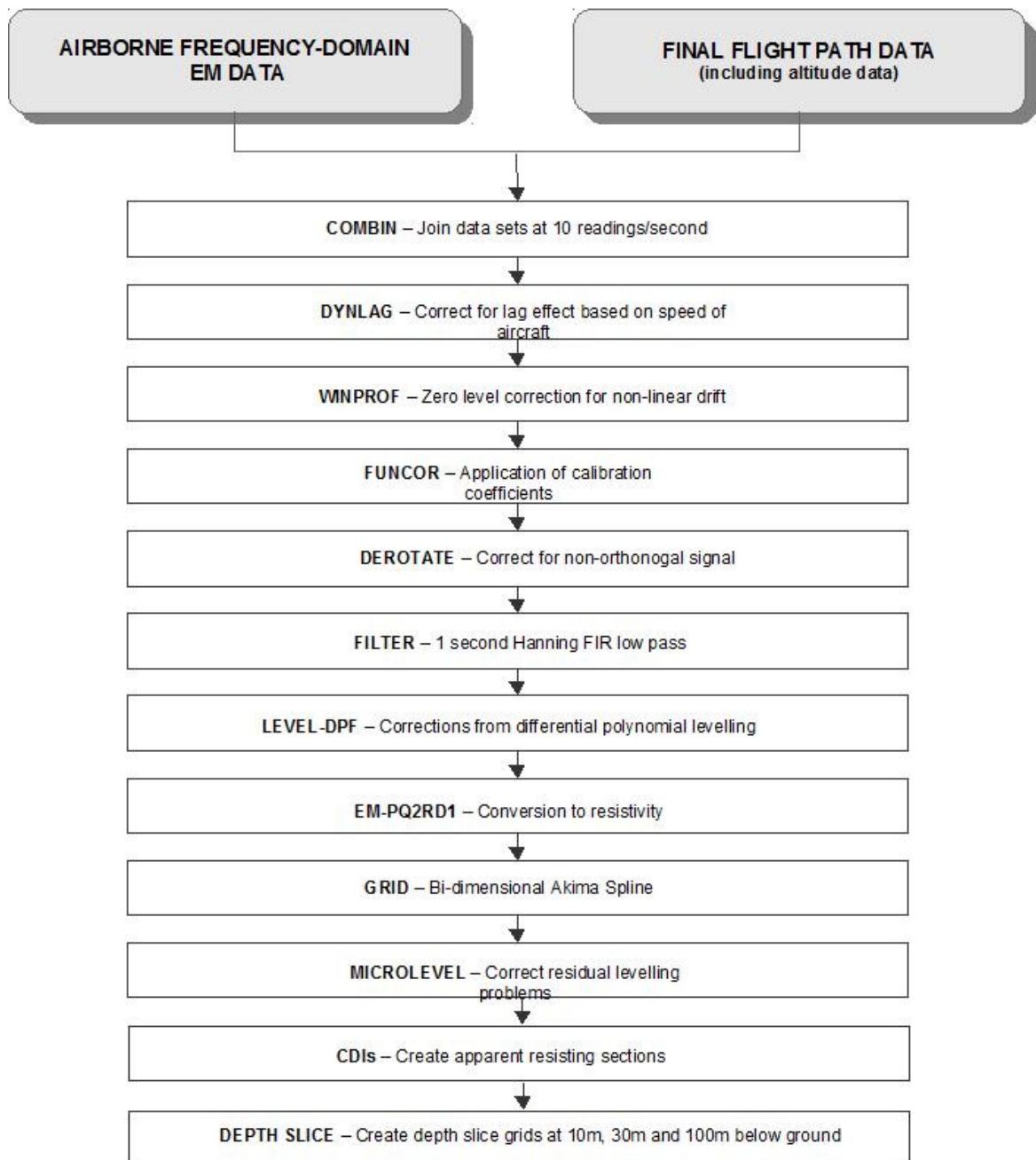


Figure 32: Frequency-domain electromagnetic data processing flowchart

Positional Data

A positional data flowchart is presented in *Figure 33*. A number of programs were executed for the compilation of navigation data in order to reformat and recalculate positions in differential mode. SGL's GPS data processing package, GPSoft, was used to calculate DGPS positions from raw 10 Hz range data obtained from the moving (airborne) and stationary (ground) receivers using combinations of L1 and L2 phase signal.

Accurate locations of the GPS antenna were determined through Precise Point Positioning (PPP) differential corrections using the algorithm developed by the National Research Council of Canada (NRCAN) (<http://webapp.geod.nrcan.gc.ca/geod/tools-outils/ppp.php>) adapted to run under SGL's suite of software. This technique provides a final receiver location with an accuracy of better than 5 cm.

Positional data (x, y, z) were recorded and all data processing was performed in the WGS-84 datum. Please see *Table A* for ellipsoid parameters. Positions were calculated and delivered in the WGS-84 datum, UTM projection zone UTM29N. The delivered data are provided with x, y locations converted to the Irish National Grid (IRENET95 Datum, Irish Transverse Mercator projection). See *Tables B* and *C* for the ellipsoid parameters and the datum conversion parameters, and *Table D* for the projection parameters.

Table A: Ellipsoid parameters for WGS-84

Ellipsoid	WGS-84
Semi-major axis	6378137.0
1/flattening	298.257223563

Table B: Ellipsoid parameters for IRENET95

Ellipsoid	GRS-80
Semi-major axis	6378137.0
1/flattening	298.257222101

Table C: Datum conversion parameters from IRENET95 to WGS-84

x shift (m)	0
y shift (m)	0
z shift (m)	0
x rotation (rad)	0
y rotation (rad)	0
z rotation (rad)	0

Table D: Irish Transverse Mercator Projection Parameters

Central meridian	8° West
Latitude of origin	53.5° North
False northing (m)	250,000
False easting (m)	200,000
Scale factor	1.000035

Elevation data were recorded relative to the GRS-80 ellipsoid and transformed to mean sea level (MSL) using the Earth Gravitational Model 2008 (EGM2008).

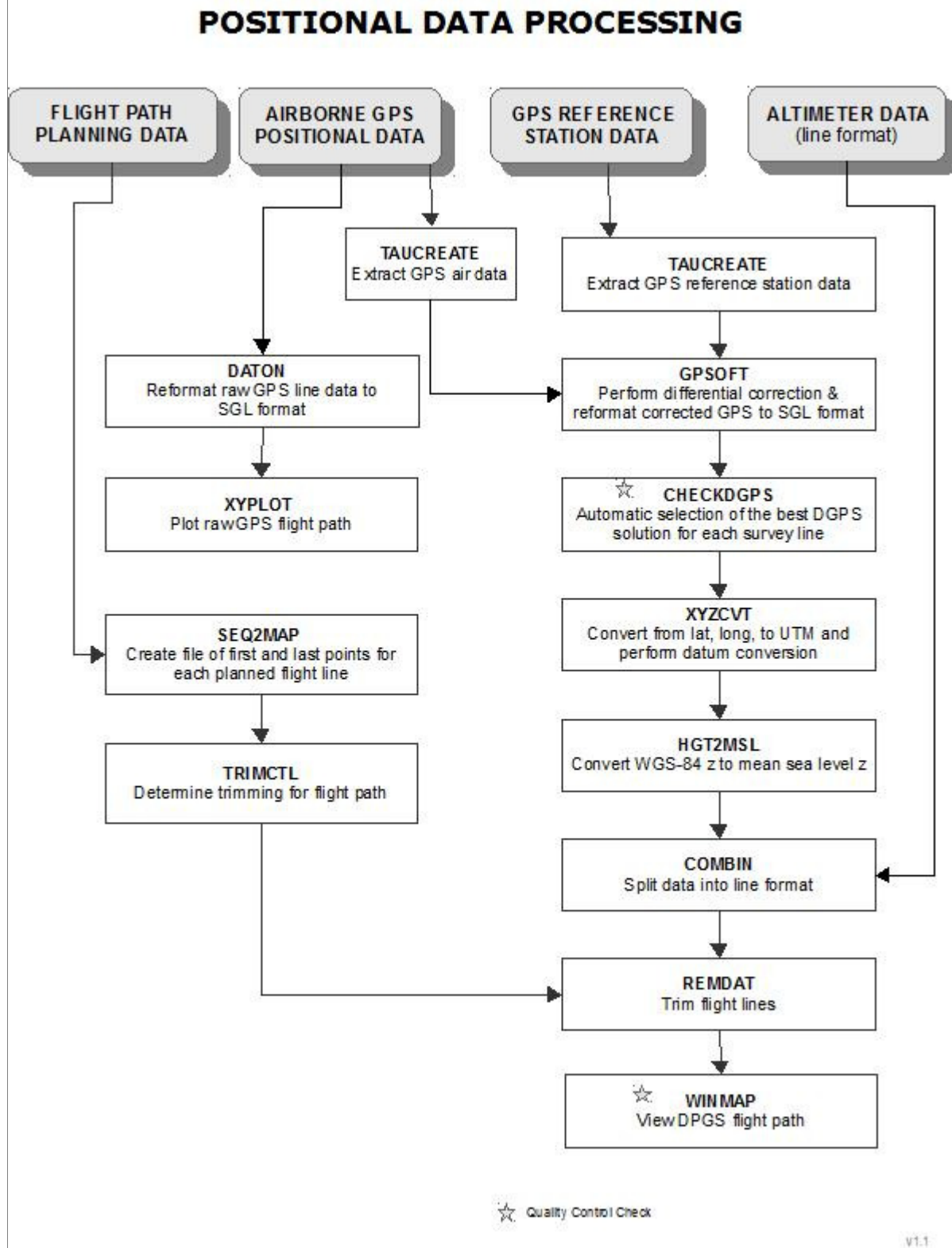


Figure 33: Positional data processing flowchart

Radar, Barometric, and Laser Altimeter Data

The terrain clearance measured by the Collins radar altimeter and the barometric altitude were recorded at 10 Hz. The barometric altimeter was recorded but was not used for altitude because of the availability of more accurate GPS altitudes. Barometric data is employed in the calculation of effective height (see "Calculation of Effective height above ground level").

The laser altimeter recorded terrain clearance at 3.3 Hz. Even though the laser altimeter can record returns from more than 700 m above the ground with a high degree of certainty, some laser data dropouts occurred while flying over the hilly parts of the survey area and when climbing to avoid areas predefined to be avoided at low altitude. The raw laser data were processed with an iterative de-spiking routine designed to remove early laser returns from trees.

The Collins radar data records the first return within the footprint of its signal. The radar altimeter data were filtered to remove high-frequency noise using a 67-point low pass filter (*Appendix VII*). The final data were plotted and inspected for quality.

A digital elevation model (DEM) was derived by subtracting the laser altimeter data from the differentially corrected DGPS altitude with respect to mean sea level. Short sections of poor laser data due to locally weak reflectivity or the effects of clouds were replaced using Collins radar data. The DEM is provided as a grid with a 50 m cell size.

Temperature Data

Outside air temperature was recorded at 10 Hz and smoothed using a 199 point low pass filter.

10. FINAL PRODUCTS

Magnetic Line Data Format

A listing of the data channels delivered in ASCII format with a sampling rate of 10 Hz can be found in *Table 18*.

File Names: Mag0001.xyz, Mag0002.xyz, Mag0003.xyz

Table 18: Magnetic line data channels and format

Title	Size	Units	Null	Description
LINE	08	-	-	Line number - LLLL.SR (L=line, S=segment, R=reflight)
FLIGHT	06	-	-	Flight number
DATE	10	-	-	Date YYYYMMDD
DAY	05	-	-	Day of year
TIME	11	s	-	Fiducial Seconds
ITM-X	13	m	*	X coordinate, IREN95 ITM
ITM-Y	13	m	*	Y coordinate, IREN95 ITM
UTM-X	13	m	*	X coordinate, WGS-84 UTM29N
UTM-Y	13	m	*	Y coordinate, WGS-84 UTM29N
UTM-Z	13	m	*	GPS Elevation (above WGS-84 Ellipsoid)
MSLHGT	13	m	*	Mean Sea Level Altitude
LAT	16	degree	*	Latitude, WGS-84
LONG	16	degree	*	Longitude, WGS-84
CLEAR	11	m	*	GPS Clearance above Terrain
RADAR	11	m	*	Radar Altimeter Clearance above Terrain
LASER	11	m	*	Laser Altimeter Clearance above Terrain
DEM	11	m	*	Digital Elevation Model from SRTM (above WGS-84 Ellipsoid)
DEM RAD	11	m	*	Digital Elevation Model from Radar (above WGS-84 Ellipsoid)
DEMLAS	11	m	*	Digital Elevation Model from Laser (above WGS-84 Ellipsoid)
DICOR	11	nT	*	Diurnal Magnetic Field from reference station
IGRF	11	nT	*	IGRF Correction
MAG-uncomp	11	nT	*	Uncompensated Airborne Magnetic Field
MAG-comp	11	nT	*	Compensated Airborne Magnetic Field
MAG-DC	11	nT	*	Diurnally Corrected Airborne Magnetic Field
MAG-IGRF	11	nT	*	IGRF Corrected Airborne Magnetic Field
MAG-HC	11	nT	*	Height Corrected Airborne Magnetic Field
MAG-LEV	11	nT	*	Levelled Airborne Magnetic Field
MAG-MIC	11	nT	*	Microlevelled Airborne Magnetic Field

Radiometric Line Data Format

A listing of the data channels delivered in ASCII format with a sampling rate of 1 Hz can be found in Table 19.

File Name: GSI__15.IRL_SPEC.xyz

Table 19: Radiometric line data channels and format

Title	Size	Units	Null	Description
LINE	08	-	-	Line number - LLLL.SR (L=line, S=segment, R=reflight)
FLIGHT	06	-	-	Flight Number
DATE	10	-	-	Date YYYYMMDD
DAY	05	-	-	Day of year
TIME	11	s	-	Fiducial Seconds
ITM-X	13	m	*	X coordinate, IREN95 ITM
ITM-Y	13	m	*	Y coordinate, IREN95 ITM
UTM-X	13	m	*	X coordinate, WGS-84 UTM29N
UTM-Y	13	m	*	Y coordinate, WGS-84 UTM29N
UTM-Z	13	m	*	GPS Elevation (above WGS-84 Ellipsoid)
MSLHGT	13	m	*	Mean Sea Level Altitude
LAT	16	degree	*	Latitude, WGS-84
LONG	16	degree	*	Longitude, WGS-84
RADAR	11	m	*	Radar Altimeter Clearance above Terrain
CLEAR	11	m	*	Clearance
BARO	11	m	*	Barometric Pressure Altitude
TEMP	11	msec	*	Temperature
E_HGT	11	m	*	Effective Height at Standard Temperature and Pressure
R_LIVE	08	counts/s	*	Gamma-ray spectrometer live time
R_COS	10	counts/s	*	Recorded Cosmic Count
R_UPU	10	counts/s	*	Recorded Up-Looking Uranium Count
R_TOT	10	counts/s	*	Recorded Total Count,de-lagged
R_POT	10	counts/s	*	Recorded Potassium Count,de-lagged
R_URA	10	counts/s	*	Recorded Uranium Count,de-lagged
R_THO	10	counts/s	*	Recorded Thorium Count,de-lagged
C_TOT_M	10	counts/s	*	Corrected Total Count, de-lagged, micro-levelled
C_POT	10	%	*	Corrected Potassium Concentration,de-lagged
C_URA_M	10	ppm	*	Corrected Uranium Concentration,de-lagged, micro-levelled
C_THO	10	ppm	*	Corrected Thorium Concentration,de-lagged

Title	Size	Units	Null	Description
C_TOT_ML	10	counts/s	*	Corrected Total Count, de-lagged, micro-levelled and minimum limited to 0
C_POTL	10	%	*	Corrected Potassium Concentration,de-lagged and minimum limited to 0
C_URA_ML	10	ppm	*	Corrected Uranium Concentration,de-lagged, micro-levelled and minimum limited to 0
C_THOL	10	ppm	*	Corrected Thorium Concentration,de-lagged and minimum limited to 0
E_DOSE	10	nGy/hr	*	Air absorbed dose rate
RUT	10	-	*	Uranium / Thorium Ratio
RUK	10	-	*	Uranium / Potassium Ratio
RKT	10	%/ppm	*	Thorium / Potassium Ratio

Frequency-Domain Electromagnetic Line Data Format

A listing of the data channels delivered in ASCII format with a sampling rate of 10 Hz can be found in *Table 20*.

File Names: GSI___15.IRL_DVL1543_FEM1.xyz, GSI___15.IRL_DVL1543_FEM2.xyz,
GSI___15.IRL_DVL1543_FEM3.xyz, and GSI___15.IRL_DVL1543_FEM4.xyz

Table 20: Frequency-domain electromagnetic line data channels and format

Title	Size	Units	Null	Description
LINE	08	-	-	Line number - LLLL.SR (L=line, S=segment, R=reflight)
FLIGHT	06	-	-	Flight number
DATE	10	-	-	Date YYYYMMDD
DAY	05	-	-	Day of year
TIME	11	s	-	UTC seconds
ITM-X	13	m	*	X coordinate, IREN95 ITM
ITM-Y	13	m	*	Y coordinate, IREN95 ITM
UTM-X	13	m	*	X coordinate, WGS-84 UTM 29N
UTM-Y	13	m	*	Y coordinate, WGS-84 UTM 29N
UTM-Z	13	m	*	GPS Elevation (above WGS-84 Ellipsoid)
RADAR	11	m	*	Radar Altimeter Clearance above Terrain
P09ppm	08	ppm	*	In-phase 912 Hz
Q09ppm	08	ppm	*	Quadrature 912 Hz
P3ppm	08	ppm	*	In-phase 3005 Hz
Q3ppm	08	ppm	*	Quadrature 3005 Hz
P12ppm	08	ppm	*	In-phase 11962 Hz
Q12ppm	08	ppm	*	Quadrature 11962 Hz
P25ppm	08	ppm	*	In-phase 24510 Hz
Q25ppm	08	ppm	*	Quadrature 24510 Hz
P09filt	08	ppm	*	Filtered in-phase 912 Hz
Q09filt	08	ppm	*	Filtered quadrature 912 Hz
P3filt	08	ppm	*	Filtered in-phase 3005 Hz
Q3filt	08	ppm	*	Filtered quadrature 3005 Hz
P12filt	08	ppm	*	Filtered in-phase 11962 Hz
Q12filt	08	ppm	*	Filtered quadrature 11962 Hz
P25filt	08	ppm	*	Filtered in-phase 24510 Hz
Q25filt	08	ppm	*	Filtered quadrature 24510 Hz
P09lev	08	ppm	*	Levelled and filtered in-phase 912 Hz

Title	Size	Units	Null	Description
Q09lev	08	ppm	*	Levelled and filtered quadrature 912 Hz
P3lev	08	ppm	*	Levelled and filtered in-phase 3005 Hz
Q3lev	08	ppm	*	Levelled and filtered quadrature 3005 Hz
P12lev	08	ppm	*	Levelled and filtered in-phase 11962 Hz
Q12lev	08	ppm	*	Levelled and filtered quadrature 11962 Hz
P25lev	08	ppm	*	Levelled and filtered in-phase 24510 Hz
Q25lev	08	ppm	*	Levelled and filtered quadrature 24510 Hz
Radio_Flag	09	ppm	*	Radio call flag
PLM_mV	10	mV	*	Power line monitor
Res09	10	ohm-m	*	Apparent resistivity, half-space model, 912 Hz
Res3	10	ohm-m	*	Apparent resistivity, half-space model, 3005 Hz
Res12	10	ohm-m	*	Apparent resistivity, half-space model, 11962 Hz
Res25	10	ohm-m	*	Apparent resistivity, half-space model, 24510 Hz
Res3_MLEV	10	ohm-m	*	Microlevelled apparent resistivity, half-space model, 3005 Hz
Res12_MLEV	10	ohm-m	*	Microlevelled apparent resistivity, half-space model, 11962 Hz
Res25_MLEV	10	ohm-m	*	Microlevelled apparent resistivity, half-space model, 24510 Hz
Depth09	10	m	*	Centroid depth 912Hz
Depth3	10	m	*	Centroid depth 3005Hz
Depth12	10	m	*	Centroid depth 11962Hz
Depth25	10	m	*	Centroid depth 24510Hz
ResSlice10	11	ohm-m	*	Resistivity depth slice at 10m
ResSlice30	11	ohm-m	*	Resistivity depth slice at 30m
ResSlice100	11	ohm-m	*	Resistivity depth slice at 100m
ResSlice10_ML	11	ohm-m	*	Microlevelled resistivity depth slice at 10m
ResSlice30_ML	11	ohm-m	*	Microlevelled resistivity depth slice at 30m
ResSlice100_ML	11	ohm-m	*	Microlevelled resistivity depth slice at 100m

Full Spectrum Spectrometer Line Data Format

A listing of the data channels delivered in ASCII format with a sampling rate of 10 Hz can be found in *Table 21*.

File Names: 256DOWN.xyz, 256UP.xyz

Table 21: Frequency-domain electromagnetic line data channels and format

Column	Title	Size	Units	Null	Description
01	TIME	9	s	-	Fiducial Seconds
02	LIVE	6	ms	-	Live time
03	S:0	6	counts	-	Spectrometer channel 1
04	S:1	6	counts	-	Spectrometer channel 2
.
.
.
258	S:255	6	counts	-	Spectrometer channel 256

Digital Grids

The following are provided as digital grids:

Formats:	ASCII (.XYZ), Geosoft Binary (.GRD), Grid Exchange (.GXF)
Grid Cell Size:	50 m
Datum:	IRENET95
Projection:	Irish Transverse Mercator (ITM)

Table 22: Delivered digital grids

Grid File Name	Units	Description
MAG	nT	Magnetic Anomaly
FVM	nT/km	First Vertical Derivative of Magnetic Anomaly
Tot	counts/sec	Total counts, minimum curvature algorithm
Pot	%	Potassium, minimum curvature algorithm
Tho	ppm	Equivalent Thorium, minimum curvature algorithm
Ura	ppm	Equivalent Uranium, minimum curvature algorithm
P09	ppm	In-phase coupling ratio, 912 Hz, levelled
Q09	ppm	Quadrature coupling ratio, 912 Hz, levelled
P3	ppm	In-phase coupling ratio, 3005 Hz, levelled
Q3	ppm	Quadrature coupling ratio, 3005 Hz, levelled
P12	ppm	In-phase coupling ratio, 11962 Hz, levelled
Q12	ppm	Quadrature coupling ratio, 11962 Hz, levelled
P25	ppm	In-phase coupling ratio, 24510 Hz, levelled
Q25	ppm	Quadrature coupling ratio, 24510 Hz, levelled
Res09	ohm-m	Apparent resistivity, half-space model, 912 Hz
Res3	ohm-m	Microlevelled apparent resistivity, half-space model, 3005 Hz
Res12	ohm-m	Microlevelled apparent resistivity, half-space model, 11962 Hz
Res25	ohm-m	Microlevelled apparent resistivity, half-space model, 24510 Hz
ResSlice10	ohm-m	Microlevelled resistivity depth slice at 10m
ResSlice30	ohm-m	Microlevelled resistivity depth slice at 30m
ResSlice100	ohm-m	Microlevelled resistivity depth slice at 100m

Digital Video

Please see *Appendix XI* for Digital Video Inventory



Appendix I





COMPANY PROFILE

ABOUT US

Sander Geophysics Limited (SGL) provides worldwide airborne geophysical surveys for petroleum and mineral exploration, and geological and environmental mapping. Services offered include high resolution airborne gravity, magnetic, electromagnetic, and radiometric surveys, using fixed-wing aircraft and helicopters.



SGL head office in Ottawa, Canada

Dr. George W. Sander (1924–2008) founded SGL in 1956 to provide ground geophysical surveys. The first airborne surveys were performed as early as 1958, and by 1967 airborne geophysical surveys were the company's main focus. Operations have expanded steadily since SGL was founded more than 50 years ago. The company is led by co-Presidents Luise Sander and Stephan Sander.

WORLDWIDE OPERATIONS

SGL's head office and aircraft maintenance hangar are located at the International Airport in Ottawa, Canada. Sander Geophysics has operated on every continent including Antarctica, over diverse conditions ranging from the tropics to deserts, mountains and offshore.

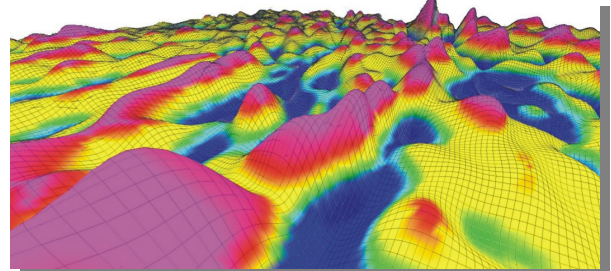
Facilities at the head office include a state of the art data processing department with an integrated digital cartographic department and a fully equipped electronics workshop for research, development and production of geophysical instruments. A Transport Canada Approved Maintenance Organization (AMO) for fixed-wing aircraft and helicopters allows most aircraft maintenance and modifications to be performed in-house.

SERVICES

AIRBORNE SURVEYS

- **Gravity (AIRGrav)**
- **Magnetic Total Field**
- **Magnetic Gradient**
- **Electromagnetic**
- **Gamma-ray Spectrometer**
- **Scanning LiDAR**

SGL offers gravity surveys with **AIRGrav** (Airborne Inertially Referenced Gravimeter), which was designed specifically for the unique characteristics of the airborne environment and is the highest resolution airborne gravimeter available. **AIRGrav** can be flown in an efficient survey aircraft during normal daytime conditions and is routinely flown in combination with magnetometer systems in SGL's airplanes and helicopters.



AIRGrav data: 3d image of the first vertical derivative of terrain corrected Bouguer gravity

DATA PROCESSING

Immediate data processing is part of SGL's standard quality control procedure, and provides clients with rapid results for evaluation while a survey is in progress. Sander Geophysics offers a full range of data enhancement programs and integrated interpretation services by experienced geoscientists. Available products in digital and/or hard copy include:

- **Contour, colour or shaded relief maps of any parameter or combination of parameters**
- **NASVD processed gamma-ray spectrometer data**
- **Filtered line or grid products such as vertical or horizontal gradients, frequency slices,**

high/low-pass or band-pass filtered, amplitude of the analytic signal, reduction to the pole, upward or downward continuation

- **Computed depth to basement**
- **Calculated digital terrain models**
- **Two- or three-dimensional modelling**
- **Cultural editing**
- **Complete geophysical interpretative reports**

■ ENVIRONMENTAL MONITORING

The company also provides environmental monitoring services using gamma-ray spectrometers and specialized processing to detect and quantify natural and anthropogenic radiation.

HEALTH & SAFETY

Sander Geophysics is a founding and active executive member of the International Airborne Geophysics Safety Association (IAGSA), which promotes the safe operation of helicopters and fixed-wing aircraft on airborne geophysical surveys.

SGL has developed and implemented a Safety Management System (SMS) and comprehensive Health, Safety and Environment (HSE) policies that govern all aspects of company operations. Safety initiatives include:

- **Project-specific Aviation Risk Analysis (ARA) and Personnel Risk Analysis (PRA) for all surveys**
- **Real-time satellite tracking of SGL aircraft**
- **HSE and first aid training for all field personnel**
- **Low-level flight and aircraft simulator training for pilots**
- **Advanced safety training appropriate to the survey location, such as water-egress, wilderness survival, etc.**

SGL's excellent safety record reflects the quality and experience of its survey crews. This, combined with management's ongoing commitment to safety, helps to ensure that Sander Geophysics is a safe and reliable choice for airborne geophysical surveys.

PERSONNEL

Sander Geophysics has over 160 experienced permanent employees, including geophysicists, software and hardware engineers, aircraft maintenance engineers and pilots.

AIRCRAFT

SGL owns and operates seventeen aircraft, including eight Cessna Grand Caravans and a Twin Otter all equipped for geophysical surveys.

The Grand Caravans have been modified to allow the installation of a tri-axial magnetic gradiometer system. The company's fleet also includes three all composite Diamond DA42 Twin Stars, modified for gravity and horizontal magnetic gradient surveys, and two AS350 B3 helicopters equipped for gravity, magnetic and radiometric surveys. Extensive modifications have been made to all of the survey aircraft to accommodate geophysical instruments and to reduce the aircraft's magnetic field. Typical Figures of Merit (FOM) for Sander Geophysics' fixed-wing aircraft are less than 1 nT. The company's aircraft are flown and maintained by licensed and experienced permanent employees of Sander Geophysics.



SGL aircraft

RESEARCH & DEVELOPMENT

Nearly one-third of the company's resources are devoted to developing new and more efficient instrumentation for airborne geophysical surveying, and to further refine its full suite of software for geophysical data processing.



Appendix II



PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
C0101.0	N53:04.86	W006:07.76	N53:05.75	W006:01.57	3.83	7.10
C0102.0	N53:04.97	W006:14.62	N53:06.80	W006:01.99	7.83	14.50
C0103.0	N53:05.05	W006:21.65	N53:07.85	W006:02.41	11.93	22.10
C0104.0	N53:05.15	W006:28.51	N53:08.90	W006:02.82	15.93	29.50
C0105.0	N53:05.25	W006:35.38	N53:09.95	W006:03.24	19.92	36.90
C0106.0	N53:05.31	W006:42.42	N53:10.99	W006:03.66	24.03	44.50
C0107.0	N53:05.39	W006:49.28	N53:11.36	W006:08.79	25.11	46.50
C0108.0	N53:05.46	W006:56.14	N53:12.41	W006:09.21	29.10	53.90
C0109.0	N53:05.50	W007:03.18	N53:13.46	W006:09.62	33.21	61.50
C0110.0	N53:05.56	W007:10.05	N53:14.03	W006:13.37	35.15	65.10
C0111.0	N53:05.62	W007:16.92	N53:15.08	W006:13.78	39.15	72.51
C0112.0	N53:05.64	W007:23.96	N53:14.42	W006:25.92	36.02	66.70
C0113.0	N53:05.68	W007:30.82	N53:15.47	W006:26.34	40.01	74.10
C0114.0	N53:05.71	W007:37.69	N53:16.51	W006:26.77	44.01	81.50
C0115.0	N53:05.74	W007:44.56	N53:17.56	W006:27.20	48.00	88.90
C0116.0	N53:05.73	W007:51.60	N53:18.61	W006:27.63	52.11	96.50
C0117.0	N53:06.27	W007:55.18	N53:19.66	W006:28.06	54.05	100.10
C0118.0	N53:07.32	W007:55.64	N53:20.70	W006:28.49	54.05	100.10
C0119.0	N53:08.36	W007:56.10	N53:21.75	W006:28.91	54.05	100.10
C0120.0	N53:09.40	W007:56.57	N53:22.80	W006:29.34	54.05	100.10
C0121.0	N53:10.44	W007:57.03	N53:24.15	W006:27.67	55.35	102.50
C0122.0	N53:11.48	W007:57.49	N53:25.20	W006:28.10	55.35	102.50
C0123.0	N53:12.53	W007:57.96	N53:29.60	W006:05.35	69.60	128.90
C0124.0	N53:13.57	W007:58.42	N53:31.05	W006:02.96	71.33	132.10
C0125.0	N53:14.61	W007:58.89	N53:32.10	W006:03.38	71.33	132.10
C0126.0	N53:15.65	W007:59.35	N53:19.72	W007:33.68	15.93	29.50
C0126.1	N53:22.52	W007:15.62	N53:33.14	W006:03.80	44.22	81.90
C0127.0	N53:16.69	W007:59.82	N53:20.76	W007:34.14	15.93	29.50
C0127.1	N53:23.57	W007:16.07	N53:34.19	W006:04.22	44.22	81.90
C0128.0	N53:17.74	W008:00.28	N53:21.81	W007:34.59	15.93	29.50
C0128.1	N53:24.61	W007:16.52	N53:35.24	W006:04.64	44.22	81.90
C0129.0	N53:18.78	W008:00.75	N53:22.85	W007:35.05	15.93	29.50
C0129.1	N53:28.40	W006:58.94	N53:36.29	W006:05.06	33.10	61.30
C0130.0	N53:29.44	W006:59.38	N53:36.79	W006:09.36	30.72	56.90
C0131.0	N53:30.49	W006:59.82	N53:37.73	W006:10.49	30.29	56.10
C0132.0	N53:31.53	W007:00.27	N53:38.78	W006:10.92	30.29	56.10
C0133.0	N53:32.58	W007:00.71	N53:39.83	W006:11.34	30.29	56.10
C0134.0	N53:33.63	W007:01.15	N53:40.88	W006:11.77	30.29	56.10
C0135.0	N53:34.67	W007:01.60	N53:41.93	W006:12.19	30.29	56.10
C0136.0	N53:36.19	W006:58.88	N53:42.97	W006:12.62	28.35	52.50
C0137.0	N53:37.24	W006:59.32	N53:44.02	W006:13.04	28.35	52.50
C0138.0	N53:38.28	W006:59.77	N53:42.96	W006:28.13	19.38	35.90
C0139.0	N53:39.33	W007:00.22	N53:43.90	W006:29.27	18.96	35.11
C0140.0	N53:39.98	W007:03.31	N53:44.87	W006:30.24	20.25	37.51
C0141.0	N53:41.02	W007:03.76	N53:45.84	W006:31.20	19.93	36.91
C0142.0	N53:42.07	W007:04.21	N53:46.79	W006:32.34	19.50	36.11
C0143.0	N53:43.11	W007:04.66	N53:47.76	W006:33.31	19.18	35.52
C0144.0	N53:44.15	W007:05.11	N53:48.70	W006:34.45	18.75	34.72
C0145.0	N53:46.97	W006:53.71	N53:49.67	W006:35.42	11.18	20.70
C0146.0	N53:48.02	W006:54.16	N53:50.64	W006:36.38	10.85	20.10
C0147.0	N53:49.06	W006:54.61	N53:51.58	W006:37.53	10.42	19.31
C0148.0	N53:50.11	W006:55.06	N53:52.55	W006:38.50	10.11	18.72
C0149.0	N53:51.15	W006:55.52	N53:53.49	W006:39.65	9.68	17.93
T1001.0	N53:06.22	W007:55.01	N53:18.88	W008:00.65	13.12	24.30
T1002.0	N53:06.24	W007:54.84	N53:18.90	W008:00.48	13.12	24.30
T1003.0	N53:06.27	W007:54.67	N53:18.93	W008:00.30	13.12	24.31
T1004.0	N53:06.27	W007:54.48	N53:18.96	W008:00.13	13.15	24.36

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1005.0	N53:06.27	W007:54.29	N53:18.99	W007:59.96	13.18	24.41
T1006.0	N53:06.27	W007:54.11	N53:19.02	W007:59.78	13.21	24.47
T1007.0	N53:06.27	W007:53.92	N53:19.04	W007:59.61	13.24	24.52
T1008.0	N53:06.27	W007:53.74	N53:19.07	W007:59.43	13.27	24.58
T1009.0	N53:06.27	W007:53.55	N53:19.10	W007:59.26	13.30	24.63
T1010.0	N53:06.27	W007:53.37	N53:19.13	W007:59.09	13.33	24.68
T1011.0	N53:06.27	W007:53.18	N53:19.16	W007:58.91	13.36	24.74
T1012.0	N53:06.27	W007:53.00	N53:19.18	W007:58.74	13.39	24.79
T1013.0	N53:06.27	W007:52.81	N53:19.21	W007:58.56	13.41	24.84
T1014.0	N53:06.27	W007:52.62	N53:19.24	W007:58.39	13.44	24.90
T1015.0	N53:06.27	W007:52.44	N53:19.27	W007:58.22	13.47	24.95
T1016.0	N53:06.27	W007:52.25	N53:19.29	W007:58.04	13.50	25.00
T1017.0	N53:06.27	W007:52.07	N53:19.32	W007:57.87	13.53	25.06
T1018.0	N53:06.27	W007:51.88	N53:19.35	W007:57.69	13.56	25.11
T1019.0	N53:05.67	W007:51.44	N53:19.38	W007:57.52	14.20	26.30
T1020.0	N53:05.70	W007:51.26	N53:19.41	W007:57.35	14.20	26.30
T1021.0	N53:05.73	W007:51.09	N53:19.43	W007:57.17	14.20	26.30
T1022.0	N53:05.76	W007:50.92	N53:19.46	W007:57.00	14.20	26.30
T1023.0	N53:05.78	W007:50.74	N53:19.49	W007:56.82	14.20	26.30
T1024.0	N53:05.81	W007:50.57	N53:19.52	W007:56.65	14.20	26.30
T1025.0	N53:05.84	W007:50.40	N53:19.55	W007:56.48	14.20	26.30
T1026.0	N53:05.87	W007:50.22	N53:19.57	W007:56.30	14.20	26.30
T1027.0	N53:05.89	W007:50.05	N53:19.60	W007:56.13	14.20	26.30
T1028.0	N53:05.92	W007:49.88	N53:19.63	W007:55.95	14.20	26.30
T1029.0	N53:05.95	W007:49.70	N53:19.66	W007:55.78	14.20	26.30
T1030.0	N53:05.98	W007:49.53	N53:19.68	W007:55.61	14.20	26.30
T1031.0	N53:06.01	W007:49.36	N53:19.71	W007:55.43	14.20	26.30
T1032.0	N53:06.03	W007:49.18	N53:19.74	W007:55.26	14.20	26.30
T1033.0	N53:06.06	W007:49.01	N53:19.77	W007:55.08	14.20	26.30
T1034.0	N53:06.09	W007:48.84	N53:19.80	W007:54.91	14.20	26.30
T1035.0	N53:06.12	W007:48.66	N53:19.82	W007:54.74	14.20	26.30
T1036.0	N53:06.14	W007:48.49	N53:19.85	W007:54.56	14.20	26.30
T1037.0	N53:06.17	W007:48.32	N53:19.88	W007:54.39	14.20	26.30
T1038.0	N53:06.20	W007:48.14	N53:19.91	W007:54.21	14.20	26.30
T1039.0	N53:06.23	W007:47.97	N53:19.93	W007:54.04	14.20	26.30
T1040.0	N53:06.25	W007:47.80	N53:19.96	W007:53.87	14.20	26.30
T1041.0	N53:06.26	W007:47.61	N53:19.99	W007:53.69	14.22	26.34
T1042.0	N53:06.26	W007:47.43	N53:20.02	W007:53.52	14.25	26.40
T1043.0	N53:06.26	W007:47.24	N53:20.05	W007:53.34	14.28	26.45
T1044.0	N53:06.26	W007:47.06	N53:20.07	W007:53.17	14.31	26.50
T1045.0	N53:06.26	W007:46.87	N53:20.10	W007:52.99	14.34	26.56
T1046.0	N53:06.26	W007:46.69	N53:20.13	W007:52.82	14.37	26.61
T1047.0	N53:06.26	W007:46.50	N53:20.16	W007:52.65	14.40	26.67
T1048.0	N53:06.26	W007:46.32	N53:20.18	W007:52.47	14.43	26.72
T1049.0	N53:06.26	W007:46.13	N53:20.21	W007:52.30	14.46	26.77
T1050.0	N53:06.26	W007:45.94	N53:20.24	W007:52.12	14.48	26.83
T1051.0	N53:06.26	W007:45.76	N53:20.27	W007:51.95	14.51	26.88
T1052.0	N53:06.26	W007:45.57	N53:20.30	W007:51.78	14.54	26.93
T1053.0	N53:06.25	W007:45.39	N53:20.32	W007:51.60	14.57	26.99
T1054.0	N53:06.25	W007:45.20	N53:20.35	W007:51.43	14.60	27.04
T1055.0	N53:06.25	W007:45.02	N53:20.38	W007:51.25	14.63	27.09
T1056.0	N53:06.25	W007:44.83	N53:20.41	W007:51.08	14.66	27.15
T1057.0	N53:05.68	W007:44.39	N53:20.43	W007:50.90	15.28	28.30
T1058.0	N53:05.71	W007:44.22	N53:20.46	W007:50.73	15.28	28.30
T1059.0	N53:05.74	W007:44.05	N53:20.49	W007:50.56	15.28	28.30
T1060.0	N53:05.76	W007:43.87	N53:20.52	W007:50.38	15.28	28.30
T1061.0	N53:05.79	W007:43.70	N53:20.54	W007:50.21	15.28	28.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1062.0	N53:05.82	W007:43.53	N53:20.57	W007:50.03	15.28	28.30
T1063.0	N53:05.85	W007:43.35	N53:20.60	W007:49.86	15.28	28.30
T1064.0	N53:05.87	W007:43.18	N53:20.63	W007:49.69	15.28	28.30
T1065.0	N53:05.90	W007:43.01	N53:20.66	W007:49.51	15.28	28.30
T1066.0	N53:05.93	W007:42.83	N53:20.68	W007:49.34	15.28	28.30
T1067.0	N53:05.96	W007:42.66	N53:20.71	W007:49.16	15.28	28.30
T1068.0	N53:05.98	W007:42.49	N53:20.74	W007:48.99	15.28	28.30
T1069.0	N53:06.01	W007:42.31	N53:20.77	W007:48.81	15.28	28.30
T1070.0	N53:06.04	W007:42.14	N53:20.79	W007:48.64	15.28	28.30
T1071.0	N53:06.07	W007:41.97	N53:20.82	W007:48.47	15.28	28.30
T1072.0	N53:06.09	W007:41.80	N53:20.85	W007:48.29	15.28	28.30
T1073.0	N53:06.12	W007:41.62	N53:20.88	W007:48.12	15.28	28.30
T1074.0	N53:06.15	W007:41.45	N53:20.90	W007:47.94	15.28	28.30
T1075.0	N53:06.18	W007:41.28	N53:20.93	W007:47.77	15.28	28.30
T1076.0	N53:06.20	W007:41.10	N53:20.96	W007:47.59	15.28	28.30
T1077.0	N53:06.23	W007:40.93	N53:20.99	W007:47.42	15.28	28.30
T1078.0	N53:06.24	W007:40.75	N53:21.01	W007:47.25	15.30	28.33
T1079.0	N53:06.24	W007:40.56	N53:21.04	W007:47.07	15.32	28.38
T1080.0	N53:06.24	W007:40.38	N53:21.07	W007:46.90	15.35	28.43
T1081.0	N53:06.24	W007:40.19	N53:21.10	W007:46.72	15.38	28.49
T1082.0	N53:06.24	W007:40.01	N53:21.12	W007:46.55	15.41	28.54
T1083.0	N53:06.24	W007:39.82	N53:21.15	W007:46.37	15.44	28.59
T1084.0	N53:06.24	W007:39.64	N53:21.18	W007:46.20	15.47	28.65
T1085.0	N53:06.24	W007:39.45	N53:21.21	W007:46.03	15.50	28.70
T1086.0	N53:06.24	W007:39.26	N53:21.24	W007:45.85	15.53	28.76
T1087.0	N53:06.24	W007:39.08	N53:21.26	W007:45.68	15.56	28.81
T1088.0	N53:06.24	W007:38.89	N53:21.29	W007:45.50	15.58	28.86
T1089.0	N53:06.24	W007:38.71	N53:21.32	W007:45.33	15.61	28.92
T1090.0	N53:06.24	W007:38.52	N53:21.35	W007:45.15	15.64	28.97
T1091.0	N53:06.24	W007:38.34	N53:21.37	W007:44.98	15.67	29.02
T1092.0	N53:06.24	W007:38.15	N53:21.40	W007:44.81	15.70	29.08
T1093.0	N53:06.24	W007:37.97	N53:21.43	W007:44.63	15.73	29.13
T1094.0	N53:05.65	W007:37.53	N53:21.46	W007:44.46	16.36	30.30
T1095.0	N53:05.68	W007:37.35	N53:21.48	W007:44.28	16.36	30.30
T1096.0	N53:05.71	W007:37.18	N53:21.51	W007:44.11	16.36	30.30
T1097.0	N53:05.74	W007:37.01	N53:21.54	W007:43.93	16.36	30.30
T1098.0	N53:05.76	W007:36.83	N53:21.57	W007:43.76	16.36	30.30
T1099.0	N53:05.79	W007:36.66	N53:21.59	W007:43.59	16.36	30.30
T1100.0	N53:05.82	W007:36.49	N53:21.62	W007:43.41	16.36	30.30
T1101.0	N53:05.84	W007:36.31	N53:21.65	W007:43.24	16.36	30.30
T1102.0	N53:05.87	W007:36.14	N53:21.68	W007:43.06	16.36	30.30
T1103.0	N53:05.90	W007:35.97	N53:21.70	W007:42.89	16.36	30.30
T1104.0	N53:05.93	W007:35.79	N53:21.73	W007:42.71	16.36	30.30
T1105.0	N53:05.95	W007:35.62	N53:21.76	W007:42.54	16.36	30.30
T1106.0	N53:05.98	W007:35.45	N53:21.79	W007:42.37	16.36	30.30
T1107.0	N53:06.01	W007:35.27	N53:21.81	W007:42.19	16.36	30.30
T1108.0	N53:06.04	W007:35.10	N53:21.84	W007:42.02	16.36	30.30
T1109.0	N53:06.06	W007:34.93	N53:21.87	W007:41.84	16.36	30.30
T1110.0	N53:06.09	W007:34.75	N53:21.90	W007:41.67	16.36	30.30
T1111.0	N53:06.12	W007:34.58	N53:21.92	W007:41.49	16.36	30.30
T1112.0	N53:06.15	W007:34.41	N53:21.95	W007:41.32	16.36	30.30
T1113.0	N53:06.17	W007:34.23	N53:21.98	W007:41.14	16.36	30.30
T1114.0	N53:06.20	W007:34.06	N53:22.01	W007:40.97	16.36	30.30
T1115.0	N53:06.22	W007:33.88	N53:22.03	W007:40.80	16.37	30.31
T1116.0	N53:06.22	W007:33.70	N53:22.06	W007:40.62	16.39	30.36
T1117.0	N53:06.22	W007:33.51	N53:22.09	W007:40.45	16.42	30.42
T1118.0	N53:06.22	W007:33.33	N53:22.12	W007:40.27	16.45	30.47

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1119.0	N53:06.22	W007:33.14	N53:22.14	W007:40.10	16.48	30.52
T1120.0	N53:06.22	W007:32.96	N53:22.17	W007:39.92	16.51	30.58
T1121.0	N53:06.22	W007:32.77	N53:22.20	W007:39.75	16.54	30.63
T1122.0	N53:06.22	W007:32.59	N53:22.22	W007:39.58	16.57	30.68
T1123.0	N53:06.22	W007:32.40	N53:22.25	W007:39.40	16.60	30.74
T1124.0	N53:06.22	W007:32.21	N53:22.28	W007:39.23	16.63	30.79
T1125.0	N53:06.21	W007:32.03	N53:22.31	W007:39.05	16.66	30.85
T1126.0	N53:06.21	W007:31.84	N53:22.33	W007:38.88	16.68	30.90
T1127.0	N53:06.21	W007:31.66	N53:22.36	W007:38.70	16.71	30.95
T1128.0	N53:06.21	W007:31.47	N53:22.39	W007:38.53	16.74	31.01
T1129.0	N53:06.21	W007:31.29	N53:22.42	W007:38.35	16.77	31.06
T1130.0	N53:06.21	W007:31.10	N53:22.44	W007:38.18	16.80	31.11
T1131.0	N53:05.62	W007:30.66	N53:22.47	W007:38.01	17.44	32.30
T1132.0	N53:05.65	W007:30.49	N53:22.50	W007:37.83	17.44	32.30
T1133.0	N53:05.67	W007:30.31	N53:22.53	W007:37.66	17.44	32.30
T1134.0	N53:05.70	W007:30.14	N53:22.55	W007:37.48	17.44	32.30
T1135.0	N53:05.73	W007:29.97	N53:22.58	W007:37.31	17.44	32.30
T1136.0	N53:05.76	W007:29.79	N53:22.61	W007:37.13	17.44	32.30
T1137.0	N53:05.78	W007:29.62	N53:22.64	W007:36.96	17.44	32.30
T1138.0	N53:05.81	W007:29.45	N53:22.66	W007:36.78	17.44	32.30
T1139.0	N53:05.84	W007:29.27	N53:22.69	W007:36.61	17.44	32.30
T1140.0	N53:05.86	W007:29.10	N53:22.72	W007:36.44	17.44	32.30
T1141.0	N53:05.89	W007:28.93	N53:22.74	W007:36.26	17.44	32.30
T1142.0	N53:05.92	W007:28.75	N53:22.77	W007:36.09	17.44	32.30
T1143.0	N53:05.95	W007:28.58	N53:22.80	W007:35.91	17.44	32.30
T1144.0	N53:05.97	W007:28.41	N53:22.83	W007:35.74	17.44	32.30
T1145.0	N53:06.00	W007:28.23	N53:22.85	W007:35.56	17.44	32.30
T1146.0	N53:06.03	W007:28.06	N53:22.88	W007:35.39	17.44	32.30
T1147.0	N53:06.05	W007:27.88	N53:22.91	W007:35.21	17.44	32.30
T1148.0	N53:06.08	W007:27.71	N53:18.76	W007:33.22	13.12	24.30
T1149.0	N53:06.11	W007:27.54	N53:18.79	W007:33.04	13.12	24.30
T1150.0	N53:06.14	W007:27.36	N53:18.82	W007:32.87	13.12	24.30
T1151.0	N53:06.16	W007:27.19	N53:18.84	W007:32.69	13.12	24.30
T1152.0	N53:06.19	W007:27.02	N53:18.87	W007:32.52	13.12	24.30
T1153.0	N53:06.19	W007:26.83	N53:18.90	W007:32.34	13.15	24.35
T1154.0	N53:06.19	W007:26.65	N53:18.93	W007:32.17	13.17	24.40
T1155.0	N53:06.19	W007:26.46	N53:18.95	W007:32.00	13.20	24.45
T1156.0	N53:06.19	W007:26.28	N53:18.98	W007:31.82	13.23	24.51
T1157.0	N53:06.19	W007:26.09	N53:19.01	W007:31.65	13.26	24.56
T1158.0	N53:06.19	W007:25.91	N53:19.03	W007:31.47	13.29	24.61
T1159.0	N53:06.19	W007:25.72	N53:19.06	W007:31.30	13.32	24.67
T1160.0	N53:06.19	W007:25.54	N53:19.09	W007:31.12	13.35	24.72
T1161.0	N53:06.19	W007:25.35	N53:19.12	W007:30.95	13.38	24.77
T1162.0	N53:06.18	W007:25.16	N53:19.14	W007:30.78	13.41	24.83
T1163.0	N53:06.18	W007:24.98	N53:19.17	W007:30.60	13.44	24.88
T1164.0	N53:06.18	W007:24.79	N53:19.20	W007:30.43	13.46	24.94
T1165.0	N53:06.18	W007:24.61	N53:19.23	W007:30.25	13.49	24.99
T1166.0	N53:06.18	W007:24.42	N53:19.25	W007:30.08	13.52	25.04
T1167.0	N53:06.18	W007:24.24	N53:19.28	W007:29.90	13.55	25.10
T1168.0	N53:05.58	W007:23.79	N53:19.31	W007:29.73	14.20	26.30
T1169.0	N53:05.61	W007:23.62	N53:19.33	W007:29.56	14.20	26.30
T1170.0	N53:05.63	W007:23.45	N53:19.36	W007:29.38	14.20	26.30
T1171.0	N53:05.66	W007:23.27	N53:19.39	W007:29.21	14.20	26.30
T1172.0	N53:05.69	W007:23.10	N53:19.42	W007:29.03	14.20	26.30
T1173.0	N53:05.71	W007:22.93	N53:19.44	W007:28.86	14.20	26.30
T1174.0	N53:05.74	W007:22.75	N53:19.47	W007:28.68	14.20	26.30
T1175.0	N53:05.77	W007:22.58	N53:19.50	W007:28.51	14.20	26.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1176.0	N53:05.80	W007:22.40	N53:19.52	W007:28.34	14.20	26.30
T1177.0	N53:05.82	W007:22.23	N53:19.55	W007:28.16	14.20	26.30
T1178.0	N53:05.85	W007:22.06	N53:19.58	W007:27.99	14.20	26.30
T1179.0	N53:05.88	W007:21.88	N53:19.61	W007:27.81	14.20	26.30
T1180.0	N53:05.90	W007:21.71	N53:19.63	W007:27.64	14.20	26.30
T1181.0	N53:05.93	W007:21.54	N53:19.66	W007:27.46	14.20	26.30
T1182.0	N53:05.96	W007:21.36	N53:19.69	W007:27.29	14.20	26.30
T1183.0	N53:05.98	W007:21.19	N53:19.71	W007:27.11	14.20	26.30
T1184.0	N53:06.01	W007:21.02	N53:19.74	W007:26.94	14.20	26.30
T1185.0	N53:06.04	W007:20.84	N53:19.77	W007:26.77	14.20	26.30
T1186.0	N53:06.06	W007:20.67	N53:19.80	W007:26.59	14.20	26.30
T1187.0	N53:06.09	W007:20.50	N53:19.82	W007:26.42	14.20	26.30
T1188.0	N53:06.12	W007:20.32	N53:19.85	W007:26.24	14.20	26.30
T1189.0	N53:06.15	W007:20.15	N53:19.88	W007:26.07	14.20	26.30
T1190.0	N53:06.16	W007:19.97	N53:19.90	W007:25.89	14.22	26.33
T1191.0	N53:06.16	W007:19.78	N53:19.93	W007:25.72	14.25	26.38
T1192.0	N53:06.16	W007:19.60	N53:19.96	W007:25.55	14.27	26.44
T1193.0	N53:06.15	W007:19.41	N53:19.98	W007:25.37	14.30	26.49
T1194.0	N53:06.15	W007:19.23	N53:20.01	W007:25.20	14.33	26.54
T1195.0	N53:06.15	W007:19.04	N53:20.04	W007:25.02	14.36	26.60
T1196.0	N53:06.15	W007:18.86	N53:20.07	W007:24.85	14.39	26.65
T1197.0	N53:06.15	W007:18.67	N53:20.09	W007:24.67	14.42	26.70
T1198.0	N53:06.15	W007:18.49	N53:20.12	W007:24.50	14.45	26.76
T1199.0	N53:06.15	W007:18.30	N53:20.15	W007:24.32	14.48	26.81
T1200.0	N53:06.15	W007:18.11	N53:20.17	W007:24.15	14.51	26.87
T1201.0	N53:06.15	W007:17.93	N53:20.20	W007:23.98	14.53	26.92
T1202.0	N53:06.14	W007:17.74	N53:20.23	W007:23.80	14.56	26.97
T1203.0	N53:06.14	W007:17.56	N53:20.26	W007:23.63	14.59	27.03
T1204.0	N53:06.14	W007:17.37	N53:20.28	W007:23.45	14.62	27.08
T1205.0	N53:06.14	W007:17.19	N53:20.31	W007:23.28	14.65	27.13
T1206.0	N53:05.56	W007:16.75	N53:20.34	W007:23.10	15.28	28.30
T1207.0	N53:05.59	W007:16.58	N53:20.36	W007:22.93	15.28	28.30
T1208.0	N53:05.61	W007:16.41	N53:20.39	W007:22.75	15.28	28.30
T1209.0	N53:05.64	W007:16.23	N53:20.42	W007:22.58	15.28	28.30
T1210.0	N53:05.67	W007:16.06	N53:20.44	W007:22.41	15.28	28.30
T1211.0	N53:05.69	W007:15.88	N53:20.47	W007:22.23	15.28	28.30
T1212.0	N53:05.72	W007:15.71	N53:20.50	W007:22.06	15.28	28.30
T1213.0	N53:05.75	W007:15.54	N53:20.53	W007:21.88	15.28	28.30
T1214.0	N53:05.77	W007:15.36	N53:20.55	W007:21.71	15.28	28.30
T1215.0	N53:05.80	W007:15.19	N53:20.58	W007:21.53	15.28	28.30
T1216.0	N53:05.83	W007:15.02	N53:20.61	W007:21.36	15.28	28.30
T1217.0	N53:05.85	W007:14.84	N53:20.63	W007:21.18	15.28	28.30
T1218.0	N53:05.88	W007:14.67	N53:20.66	W007:21.01	15.28	28.30
T1219.0	N53:05.91	W007:14.50	N53:20.69	W007:20.83	15.28	28.30
T1220.0	N53:05.93	W007:14.32	N53:20.71	W007:20.66	15.28	28.30
T1221.0	N53:05.96	W007:14.15	N53:20.74	W007:20.49	15.28	28.30
T1222.0	N53:05.99	W007:13.98	N53:20.77	W007:20.31	15.28	28.30
T1223.0	N53:06.01	W007:13.80	N53:20.79	W007:20.14	15.28	28.30
T1224.0	N53:06.04	W007:13.63	N53:20.82	W007:19.96	15.28	28.30
T1225.0	N53:06.07	W007:13.45	N53:20.85	W007:19.79	15.28	28.30
T1226.0	N53:06.10	W007:13.28	N53:20.88	W007:19.61	15.28	28.30
T1227.0	N53:06.12	W007:13.11	N53:20.90	W007:19.44	15.29	28.31
T1228.0	N53:06.11	W007:12.92	N53:20.93	W007:19.26	15.32	28.37
T1229.0	N53:06.11	W007:12.73	N53:20.96	W007:19.09	15.35	28.42
T1230.0	N53:06.11	W007:12.55	N53:20.98	W007:18.92	15.37	28.47
T1231.0	N53:06.11	W007:12.36	N53:21.01	W007:18.74	15.40	28.53
T1232.0	N53:06.11	W007:12.18	N53:21.04	W007:18.57	15.43	28.58

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1233.0	N53:06.11	W007:11.99	N53:21.06	W007:18.39	15.46	28.63
T1234.0	N53:06.11	W007:11.81	N53:21.09	W007:18.22	15.49	28.69
T1235.0	N53:06.11	W007:11.62	N53:21.12	W007:18.04	15.52	28.74
T1236.0	N53:06.10	W007:11.44	N53:21.14	W007:17.87	15.55	28.79
T1237.0	N53:06.10	W007:11.25	N53:21.17	W007:17.69	15.58	28.85
T1238.0	N53:06.10	W007:11.06	N53:21.20	W007:17.52	15.61	28.90
T1239.0	N53:06.10	W007:10.88	N53:21.23	W007:17.34	15.63	28.96
T1240.0	N53:06.10	W007:10.69	N53:21.25	W007:17.17	15.66	29.01
T1241.0	N53:06.10	W007:10.51	N53:21.28	W007:17.00	15.69	29.06
T1242.0	N53:06.10	W007:10.32	N53:21.31	W007:16.82	15.72	29.12
T1243.0	N53:05.51	W007:09.89	N53:21.33	W007:16.65	16.36	30.30
T1244.0	N53:05.53	W007:09.71	N53:21.36	W007:16.47	16.36	30.30
T1245.0	N53:05.56	W007:09.54	N53:21.39	W007:16.30	16.36	30.30
T1246.0	N53:05.59	W007:09.37	N53:21.41	W007:16.12	16.36	30.30
T1247.0	N53:05.61	W007:09.19	N53:21.44	W007:15.95	16.36	30.30
T1248.0	N53:05.64	W007:09.02	N53:21.47	W007:15.77	16.36	30.30
T1249.0	N53:05.67	W007:08.84	N53:21.49	W007:15.60	16.36	30.30
T1250.0	N53:05.69	W007:08.67	N53:21.52	W007:15.42	16.36	30.30
T1251.0	N53:05.72	W007:08.50	N53:21.55	W007:15.25	16.36	30.30
T1252.0	N53:05.75	W007:08.32	N53:24.71	W007:16.42	19.60	36.30
T1253.0	N53:05.77	W007:08.15	N53:24.73	W007:16.25	19.60	36.30
T1254.0	N53:05.80	W007:07.98	N53:24.76	W007:16.07	19.60	36.30
T1255.0	N53:05.83	W007:07.80	N53:24.79	W007:15.90	19.60	36.30
T1256.0	N53:05.85	W007:07.63	N53:24.82	W007:15.72	19.60	36.30
T1257.0	N53:05.88	W007:07.46	N53:24.84	W007:15.55	19.60	36.30
T1258.0	N53:05.91	W007:07.28	N53:24.87	W007:15.37	19.60	36.30
T1259.0	N53:05.93	W007:07.11	N53:24.90	W007:15.20	19.60	36.30
T1260.0	N53:05.96	W007:06.93	N53:24.92	W007:15.02	19.60	36.30
T1261.0	N53:05.98	W007:06.76	N53:24.95	W007:14.85	19.60	36.30
T1262.0	N53:06.01	W007:06.59	N53:24.98	W007:14.67	19.60	36.30
T1263.0	N53:06.04	W007:06.41	N53:25.00	W007:14.50	19.60	36.30
T1264.0	N53:06.06	W007:06.24	N53:25.03	W007:14.32	19.60	36.30
T1265.0	N53:06.07	W007:06.06	N53:25.06	W007:14.15	19.63	36.35
T1266.0	N53:06.06	W007:05.87	N53:25.08	W007:13.97	19.66	36.40
T1267.0	N53:06.06	W007:05.68	N53:25.11	W007:13.80	19.68	36.46
T1268.0	N53:06.06	W007:05.50	N53:25.14	W007:13.62	19.71	36.51
T1269.0	N53:06.06	W007:05.31	N53:25.16	W007:13.45	19.74	36.56
T1270.0	N53:06.06	W007:05.13	N53:25.19	W007:13.27	19.77	36.62
T1271.0	N53:06.06	W007:04.94	N53:25.22	W007:13.10	19.80	36.67
T1272.0	N53:06.06	W007:04.76	N53:25.24	W007:12.92	19.83	36.72
T1273.0	N53:06.05	W007:04.57	N53:25.27	W007:12.75	19.86	36.78
T1274.0	N53:06.05	W007:04.39	N53:25.30	W007:12.57	19.89	36.83
T1275.0	N53:06.05	W007:04.20	N53:25.32	W007:12.40	19.92	36.88
T1276.0	N53:06.05	W007:04.02	N53:25.35	W007:12.22	19.95	36.94
T1277.0	N53:06.05	W007:03.83	N53:25.38	W007:12.05	19.97	36.99
T1278.0	N53:06.05	W007:03.64	N53:25.40	W007:11.87	20.00	37.05
T1279.0	N53:06.05	W007:03.46	N53:25.43	W007:11.70	20.03	37.10
T1280.0	N53:05.44	W007:03.02	N53:25.46	W007:11.52	20.68	38.30
T1281.0	N53:05.47	W007:02.85	N53:25.48	W007:11.35	20.68	38.30
T1282.0	N53:05.50	W007:02.67	N53:25.51	W007:11.17	20.68	38.30
T1283.0	N53:05.52	W007:02.50	N53:25.54	W007:11.00	20.68	38.30
T1284.0	N53:05.55	W007:02.33	N53:25.56	W007:10.82	20.68	38.30
T1285.0	N53:05.58	W007:02.15	N53:25.59	W007:10.65	20.68	38.30
T1286.0	N53:05.60	W007:01.98	N53:25.62	W007:10.47	20.68	38.30
T1287.0	N53:05.63	W007:01.80	N53:25.65	W007:10.30	20.68	38.30
T1288.0	N53:05.66	W007:01.63	N53:25.67	W007:10.13	20.68	38.30
T1289.0	N53:05.68	W007:01.46	N53:25.70	W007:09.95	20.68	38.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1290.0	N53:05.71	W007:01.28	N53:25.73	W007:09.78	20.68	38.30
T1291.0	N53:05.74	W007:01.11	N53:25.75	W007:09.60	20.68	38.30
T1292.0	N53:05.76	W007:00.94	N53:25.78	W007:09.43	20.68	38.30
T1293.0	N53:05.79	W007:00.76	N53:25.81	W007:09.25	20.68	38.30
T1294.0	N53:05.82	W007:00.59	N53:25.83	W007:09.08	20.68	38.30
T1295.0	N53:05.84	W007:00.42	N53:25.86	W007:08.90	20.68	38.30
T1296.0	N53:05.87	W007:00.24	N53:25.89	W007:08.73	20.68	38.30
T1297.0	N53:05.90	W007:00.07	N53:25.91	W007:08.55	20.68	38.30
T1298.0	N53:05.92	W006:59.89	N53:25.94	W007:08.38	20.68	38.30
T1299.0	N53:05.95	W006:59.72	N53:25.97	W007:08.20	20.68	38.30
T1300.0	N53:05.97	W006:59.55	N53:25.99	W007:08.03	20.68	38.30
T1301.0	N53:06.00	W006:59.37	N53:26.02	W007:07.85	20.68	38.30
T1302.0	N53:06.01	W006:59.19	N53:26.05	W007:07.68	20.70	38.33
T1303.0	N53:06.01	W006:59.01	N53:26.07	W007:07.50	20.73	38.39
T1304.0	N53:06.01	W006:58.82	N53:26.10	W007:07.33	20.76	38.44
T1305.0	N53:06.01	W006:58.64	N53:26.12	W007:07.15	20.78	38.49
T1306.0	N53:06.00	W006:58.45	N53:26.15	W007:06.98	20.81	38.55
T1307.0	N53:06.00	W006:58.27	N53:26.18	W007:06.80	20.84	38.60
T1308.0	N53:06.00	W006:58.08	N53:26.20	W007:06.63	20.87	38.65
T1309.0	N53:06.00	W006:57.89	N53:26.23	W007:06.45	20.90	38.71
T1310.0	N53:06.00	W006:57.71	N53:26.26	W007:06.28	20.93	38.76
T1311.0	N53:06.00	W006:57.52	N53:26.28	W007:06.10	20.96	38.81
T1312.0	N53:05.99	W006:57.34	N53:26.31	W007:05.93	20.99	38.87
T1313.0	N53:05.99	W006:57.15	N53:26.34	W007:05.75	21.02	38.92
T1314.0	N53:05.99	W006:56.97	N53:26.36	W007:05.58	21.04	38.97
T1315.0	N53:05.99	W006:56.78	N53:26.39	W007:05.40	21.07	39.03
T1316.0	N53:05.99	W006:56.60	N53:26.42	W007:05.23	21.10	39.08
T1317.0	N53:05.99	W006:56.41	N53:26.44	W007:05.05	21.13	39.14
T1318.0	N53:05.40	W006:55.98	N53:26.47	W007:04.87	21.76	40.30
T1319.0	N53:05.43	W006:55.81	N53:26.50	W007:04.70	21.76	40.30
T1320.0	N53:05.46	W006:55.63	N53:26.52	W007:04.52	21.76	40.30
T1321.0	N53:05.48	W006:55.46	N53:26.55	W007:04.35	21.76	40.30
T1322.0	N53:05.51	W006:55.29	N53:26.58	W007:04.17	21.76	40.30
T1323.0	N53:05.54	W006:55.11	N53:26.60	W007:04.00	21.76	40.30
T1324.0	N53:05.56	W006:54.94	N53:26.63	W007:03.82	21.76	40.30
T1325.0	N53:05.59	W006:54.77	N53:26.66	W007:03.65	21.76	40.30
T1326.0	N53:05.61	W006:54.59	N53:26.68	W007:03.47	21.76	40.30
T1327.0	N53:05.64	W006:54.42	N53:26.71	W007:03.30	21.76	40.30
T1328.0	N53:05.67	W006:54.24	N53:26.74	W007:03.12	21.76	40.30
T1329.0	N53:05.69	W006:54.07	N53:26.76	W007:02.95	21.76	40.30
T1330.0	N53:05.72	W006:53.90	N53:26.79	W007:02.77	21.76	40.30
T1331.0	N53:05.75	W006:53.72	N53:26.82	W007:02.60	21.76	40.30
T1332.0	N53:05.77	W006:53.55	N53:26.84	W007:02.42	21.76	40.30
T1333.0	N53:05.80	W006:53.38	N53:26.87	W007:02.25	21.76	40.30
T1334.0	N53:05.83	W006:53.20	N53:26.90	W007:02.07	21.76	40.30
T1335.0	N53:05.85	W006:53.03	N53:26.92	W007:01.90	21.76	40.30
T1336.0	N53:05.88	W006:52.85	N53:26.95	W007:01.72	21.76	40.30
T1337.0	N53:05.90	W006:52.68	N53:26.97	W007:01.55	21.76	40.30
T1338.0	N53:05.93	W006:52.51	N53:27.00	W007:01.37	21.76	40.30
T1339.0	N53:05.95	W006:52.33	N53:27.03	W007:01.20	21.77	40.31
T1340.0	N53:05.95	W006:52.14	N53:27.05	W007:01.02	21.80	40.37
T1341.0	N53:05.95	W006:51.96	N53:27.08	W007:00.85	21.83	40.42
T1342.0	N53:05.94	W006:51.77	N53:27.11	W007:00.67	21.86	40.48
T1343.0	N53:05.94	W006:51.59	N53:27.13	W007:00.50	21.88	40.53
T1344.0	N53:05.94	W006:51.40	N53:27.16	W007:00.32	21.91	40.58
T1345.0	N53:05.94	W006:51.22	N53:27.19	W007:00.15	21.94	40.64
T1346.0	N53:05.94	W006:51.03	N53:27.21	W006:59.97	21.97	40.69

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1347.0	N53:05.93	W006:50.85	N53:27.24	W006:59.80	22.00	40.74
T1348.0	N53:05.93	W006:50.66	N53:27.27	W006:59.62	22.03	40.80
T1349.0	N53:05.93	W006:50.47	N53:27.29	W006:59.45	22.06	40.85
T1350.0	N53:05.93	W006:50.29	N53:27.32	W006:59.27	22.09	40.90
T1351.0	N53:05.93	W006:50.10	N53:27.34	W006:59.10	22.12	40.96
T1352.0	N53:05.93	W006:49.92	N53:27.37	W006:58.92	22.14	41.01
T1353.0	N53:05.92	W006:49.73	N53:27.40	W006:58.75	22.17	41.06
T1354.0	N53:05.92	W006:49.55	N53:27.42	W006:58.57	22.20	41.12
T1355.0	N53:05.33	W006:49.12	N53:34.77	W007:01.50	30.40	56.30
T1356.0	N53:05.36	W006:48.94	N53:34.80	W007:01.33	30.40	56.30
T1357.0	N53:05.38	W006:48.77	N53:34.82	W007:01.15	30.40	56.30
T1358.0	N53:05.41	W006:48.60	N53:34.85	W007:00.97	30.40	56.30
T1358.1	N53:39.92	W007:03.13	N53:44.52	W007:05.10	4.75	8.80
T1359.0	N53:05.44	W006:48.42	N53:34.87	W007:00.80	30.40	56.30
T1359.1	N53:39.94	W007:02.96	N53:44.54	W007:04.93	4.75	8.80
T1360.0	N53:05.46	W006:48.25	N53:34.90	W007:00.62	30.40	56.30
T1360.1	N53:39.97	W007:02.78	N53:44.57	W007:04.75	4.75	8.80
T1361.0	N53:05.49	W006:48.07	N53:34.93	W007:00.45	30.40	56.30
T1361.1	N53:40.00	W007:02.61	N53:44.60	W007:04.57	4.75	8.80
T1362.0	N53:05.51	W006:47.90	N53:34.95	W007:00.27	30.40	56.30
T1362.1	N53:40.02	W007:02.43	N53:44.62	W007:04.40	4.75	8.80
T1363.0	N53:05.54	W006:47.73	N53:34.98	W007:00.10	30.40	56.30
T1363.1	N53:40.05	W007:02.25	N53:44.65	W007:04.22	4.75	8.80
T1364.0	N53:05.57	W006:47.55	N53:35.01	W006:59.92	30.40	56.30
T1364.1	N53:40.08	W007:02.08	N53:44.68	W007:04.04	4.75	8.80
T1365.0	N53:05.59	W006:47.38	N53:35.03	W006:59.74	30.40	56.30
T1365.1	N53:40.10	W007:01.90	N53:44.70	W007:03.87	4.75	8.80
T1366.0	N53:05.62	W006:47.21	N53:35.06	W006:59.57	30.40	56.30
T1366.1	N53:40.13	W007:01.73	N53:44.73	W007:03.69	4.75	8.80
T1367.0	N53:05.64	W006:47.03	N53:35.09	W006:59.39	30.40	56.30
T1367.1	N53:40.16	W007:01.55	N53:44.76	W007:03.52	4.75	8.80
T1368.0	N53:05.67	W006:46.86	N53:35.11	W006:59.22	30.40	56.30
T1368.1	N53:40.18	W007:01.37	N53:44.78	W007:03.34	4.75	8.80
T1369.0	N53:05.70	W006:46.68	N53:35.14	W006:59.04	30.40	56.30
T1369.1	N53:40.21	W007:01.20	N53:44.81	W007:03.16	4.75	8.80
T1370.0	N53:05.72	W006:46.51	N53:35.17	W006:58.87	30.40	56.30
T1370.1	N53:40.24	W007:01.02	N53:44.84	W007:02.99	4.75	8.80
T1371.0	N53:05.75	W006:46.34	N53:35.19	W006:58.69	30.40	56.30
T1371.1	N53:40.26	W007:00.85	N53:44.86	W007:02.81	4.75	8.80
T1372.0	N53:05.78	W006:46.16	N53:35.22	W006:58.51	30.40	56.30
T1372.1	N53:40.29	W007:00.67	N53:44.89	W007:02.63	4.75	8.80
T1373.0	N53:05.80	W006:45.99	N53:44.92	W007:02.46	40.39	74.80
T1374.0	N53:05.83	W006:45.81	N53:44.94	W007:02.28	40.39	74.80
T1375.0	N53:05.85	W006:45.64	N53:44.97	W007:02.10	40.39	74.80
T1376.0	N53:05.88	W006:45.47	N53:44.99	W007:01.93	40.39	74.80
T1377.0	N53:05.88	W006:45.28	N53:45.02	W007:01.75	40.42	74.85
T1378.0	N53:05.88	W006:45.10	N53:45.05	W007:01.58	40.45	74.90
T1379.0	N53:05.87	W006:44.91	N53:45.07	W007:01.40	40.47	74.96
T1380.0	N53:05.87	W006:44.73	N53:45.10	W007:01.22	40.50	75.01
T1381.0	N53:05.87	W006:44.54	N53:45.13	W007:01.05	40.53	75.07
T1382.0	N53:05.87	W006:44.35	N53:45.15	W007:00.87	40.56	75.12
T1383.0	N53:05.87	W006:44.17	N53:45.18	W007:00.69	40.59	75.17
T1384.0	N53:05.87	W006:43.98	N53:45.21	W007:00.52	40.62	75.23
T1385.0	N53:05.86	W006:43.80	N53:45.23	W007:00.34	40.65	75.28
T1386.0	N53:05.86	W006:43.61	N53:45.26	W007:00.16	40.68	75.33
T1387.0	N53:05.86	W006:43.43	N53:45.29	W006:59.99	40.71	75.39
T1388.0	N53:05.86	W006:43.24	N53:45.31	W006:59.81	40.73	75.44

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1389.0	N53:05.86	W006:43.06	N53:45.34	W006:59.63	40.76	75.49
T1390.0	N53:05.85	W006:42.87	N53:45.36	W006:59.46	40.79	75.55
T1391.0	N53:05.85	W006:42.69	N53:45.39	W006:59.28	40.82	75.60
T1392.0	N53:05.25	W006:42.25	N53:45.42	W006:59.11	41.47	76.80
T1393.0	N53:05.28	W006:42.08	N53:45.44	W006:58.93	41.47	76.80
T1394.0	N53:05.30	W006:41.90	N53:45.47	W006:58.75	41.47	76.80
T1395.0	N53:05.33	W006:41.73	N53:45.50	W006:58.58	41.47	76.80
T1396.0	N53:05.35	W006:41.56	N53:45.52	W006:58.40	41.47	76.80
T1397.0	N53:05.38	W006:41.38	N53:45.55	W006:58.22	41.47	76.80
T1398.0	N53:05.41	W006:41.21	N53:45.58	W006:58.05	41.47	76.80
T1399.0	N53:05.43	W006:41.04	N53:45.60	W006:57.87	41.47	76.80
T1400.0	N53:05.46	W006:40.86	N53:45.63	W006:57.69	41.47	76.80
T1401.0	N53:05.48	W006:40.69	N53:45.66	W006:57.52	41.47	76.80
T1402.0	N53:05.51	W006:40.51	N53:45.68	W006:57.34	41.47	76.80
T1403.0	N53:05.54	W006:40.34	N53:45.71	W006:57.16	41.47	76.80
T1404.0	N53:05.56	W006:40.17	N53:45.73	W006:56.99	41.47	76.80
T1405.0	N53:05.59	W006:39.99	N53:45.76	W006:56.81	41.47	76.80
T1406.0	N53:05.61	W006:39.82	N53:45.79	W006:56.64	41.47	76.80
T1407.0	N53:05.64	W006:39.64	N53:45.81	W006:56.46	41.47	76.80
T1408.0	N53:05.67	W006:39.47	N53:45.84	W006:56.28	41.47	76.80
T1409.0	N53:05.69	W006:39.30	N53:45.87	W006:56.11	41.47	76.80
T1410.0	N53:05.72	W006:39.12	N53:45.89	W006:55.93	41.47	76.80
T1411.0	N53:05.74	W006:38.95	N53:45.92	W006:55.75	41.47	76.80
T1412.0	N53:05.77	W006:38.78	N53:45.95	W006:55.58	41.47	76.80
T1413.0	N53:05.80	W006:38.60	N53:45.97	W006:55.40	41.47	76.80
T1414.0	N53:05.80	W006:38.42	N53:46.00	W006:55.22	41.49	76.83
T1415.0	N53:05.80	W006:38.23	N53:46.02	W006:55.05	41.52	76.89
T1416.0	N53:05.80	W006:38.05	N53:46.05	W006:54.87	41.55	76.94
T1417.0	N53:05.80	W006:37.86	N53:46.08	W006:54.69	41.57	77.00
T1418.0	N53:05.80	W006:37.68	N53:46.10	W006:54.52	41.60	77.05
T1419.0	N53:05.79	W006:37.49	N53:46.13	W006:54.34	41.63	77.10
T1420.0	N53:05.79	W006:37.31	N53:46.16	W006:54.16	41.66	77.16
T1421.0	N53:05.79	W006:37.12	N53:46.18	W006:53.99	41.69	77.21
T1422.0	N53:05.79	W006:36.94	N53:46.21	W006:53.81	41.72	77.26
T1423.0	N53:05.78	W006:36.75	N53:46.23	W006:53.63	41.75	77.32
T1424.0	N53:05.78	W006:36.57	N53:46.26	W006:53.46	41.78	77.37
T1425.0	N53:05.78	W006:36.38	N53:51.52	W006:55.50	47.21	87.42
T1426.0	N53:05.78	W006:36.19	N53:51.54	W006:55.33	47.23	87.48
T1427.0	N53:05.78	W006:36.01	N53:51.57	W006:55.15	47.26	87.53
T1428.0	N53:05.77	W006:35.82	N53:51.59	W006:54.97	47.29	87.58
T1429.0	N53:05.77	W006:35.64	N53:51.62	W006:54.80	47.32	87.64
T1430.0	N53:05.19	W006:35.22	N53:51.65	W006:54.62	47.95	88.80
T1431.0	N53:05.21	W006:35.04	N53:51.67	W006:54.44	47.95	88.80
T1432.0	N53:05.24	W006:34.87	N53:51.70	W006:54.26	47.95	88.80
T1433.0	N53:05.27	W006:34.69	N53:51.73	W006:54.09	47.95	88.80
T1434.0	N53:05.29	W006:34.52	N53:51.75	W006:53.91	47.95	88.80
T1435.0	N53:05.32	W006:34.35	N53:51.78	W006:53.73	47.95	88.80
T1436.0	N53:05.34	W006:34.17	N53:51.81	W006:53.56	47.95	88.80
T1437.0	N53:05.37	W006:34.00	N53:51.83	W006:53.38	47.95	88.80
T1438.0	N53:05.40	W006:33.82	N53:51.86	W006:53.20	47.95	88.80
T1439.0	N53:05.42	W006:33.65	N53:51.88	W006:53.03	47.95	88.80
T1440.0	N53:05.45	W006:33.48	N53:51.91	W006:52.85	47.95	88.80
T1441.0	N53:05.47	W006:33.30	N53:51.94	W006:52.67	47.95	88.80
T1442.0	N53:05.50	W006:33.13	N53:51.96	W006:52.50	47.95	88.80
T1443.0	N53:05.52	W006:32.95	N53:51.99	W006:52.32	47.95	88.80
T1444.0	N53:05.55	W006:32.78	N53:52.02	W006:52.14	47.95	88.80
T1445.0	N53:05.58	W006:32.61	N53:52.04	W006:51.96	47.95	88.80

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1446.0	N53:05.60	W006:32.43	N53:52.07	W006:51.79	47.95	88.80
T1447.0	N53:05.63	W006:32.26	N53:52.09	W006:51.61	47.95	88.80
T1448.0	N53:05.65	W006:32.08	N53:52.12	W006:51.43	47.95	88.80
T1449.0	N53:05.68	W006:31.91	N53:52.15	W006:51.26	47.95	88.80
T1450.0	N53:05.71	W006:31.74	N53:52.17	W006:51.08	47.95	88.80
T1451.0	N53:05.72	W006:31.56	N53:52.20	W006:50.90	47.96	88.82
T1452.0	N53:05.72	W006:31.37	N53:52.22	W006:50.73	47.99	88.87
T1453.0	N53:05.72	W006:31.19	N53:52.25	W006:50.55	48.02	88.92
T1454.0	N53:05.72	W006:31.00	N53:52.28	W006:50.37	48.04	88.98
T1455.0	N53:05.71	W006:30.82	N53:52.30	W006:50.19	48.07	89.03
T1456.0	N53:05.71	W006:30.63	N53:52.33	W006:50.02	48.10	89.09
T1457.0	N53:05.71	W006:30.45	N53:52.36	W006:49.84	48.13	89.14
T1458.0	N53:05.71	W006:30.26	N53:52.38	W006:49.66	48.16	89.19
T1459.0	N53:05.70	W006:30.08	N53:52.41	W006:49.49	48.19	89.25
T1460.0	N53:05.70	W006:29.89	N53:52.43	W006:49.31	48.22	89.30
T1461.0	N53:05.70	W006:29.70	N53:52.46	W006:49.13	48.25	89.35
T1462.0	N53:05.70	W006:29.52	N53:52.49	W006:48.96	48.28	89.41
T1463.0	N53:05.69	W006:29.33	N53:52.51	W006:48.78	48.30	89.46
T1464.0	N53:05.69	W006:29.15	N53:52.54	W006:48.60	48.33	89.51
T1465.0	N53:05.69	W006:28.96	N53:52.56	W006:48.42	48.36	89.57
T1466.0	N53:05.69	W006:28.78	N53:52.59	W006:48.25	48.39	89.62
T1467.0	N53:05.10	W006:28.35	N53:52.62	W006:48.07	49.03	90.80
T1468.0	N53:05.12	W006:28.18	N53:52.64	W006:47.89	49.03	90.80
T1469.0	N53:05.15	W006:28.00	N53:52.67	W006:47.72	49.03	90.80
T1470.0	N53:05.17	W006:27.83	N53:52.70	W006:47.54	49.03	90.80
T1471.0	N53:05.20	W006:27.66	N53:52.72	W006:47.36	49.03	90.80
T1472.0	N53:05.22	W006:27.48	N53:52.75	W006:47.18	49.03	90.80
T1473.0	N53:05.25	W006:27.31	N53:52.77	W006:47.01	49.03	90.80
T1474.0	N53:05.28	W006:27.13	N53:52.80	W006:46.83	49.03	90.80
T1475.0	N53:05.30	W006:26.96	N53:52.83	W006:46.65	49.03	90.80
T1476.0	N53:05.33	W006:26.79	N53:52.85	W006:46.48	49.03	90.80
T1477.0	N53:05.35	W006:26.61	N53:52.88	W006:46.30	49.03	90.80
T1478.0	N53:05.38	W006:26.44	N53:52.90	W006:46.12	49.03	90.80
T1479.0	N53:05.40	W006:26.26	N53:52.93	W006:45.95	49.03	90.80
T1480.0	N53:05.43	W006:26.09	N53:52.96	W006:45.77	49.03	90.80
T1481.0	N53:05.45	W006:25.92	N53:52.98	W006:45.59	49.03	90.80
T1482.0	N53:05.48	W006:25.74	N53:53.01	W006:45.41	49.03	90.80
T1483.0	N53:05.51	W006:25.57	N53:53.04	W006:45.24	49.03	90.80
T1484.0	N53:05.53	W006:25.39	N53:53.06	W006:45.06	49.03	90.80
T1485.0	N53:05.56	W006:25.22	N53:53.09	W006:44.88	49.03	90.81
T1486.0	N53:05.58	W006:25.05	N53:53.12	W006:44.71	49.03	90.81
T1487.0	N53:05.61	W006:24.87	N53:53.14	W006:44.53	49.03	90.81
T1488.0	N53:05.63	W006:24.70	N53:53.17	W006:44.35	49.03	90.81
T1489.0	N53:05.63	W006:24.51	N53:53.20	W006:44.18	49.06	90.87
T1490.0	N53:05.63	W006:24.33	N53:53.22	W006:44.00	49.09	90.92
T1491.0	N53:05.63	W006:24.14	N53:53.25	W006:43.82	49.12	90.98
T1492.0	N53:05.62	W006:23.96	N53:53.28	W006:43.65	49.15	91.03
T1493.0	N53:05.62	W006:23.77	N53:53.30	W006:43.47	49.18	91.09
T1494.0	N53:05.62	W006:23.59	N53:53.33	W006:43.29	49.21	91.14
T1495.0	N53:05.62	W006:23.40	N53:53.36	W006:43.12	49.24	91.19
T1496.0	N53:05.61	W006:23.22	N53:53.38	W006:42.94	49.27	91.25
T1497.0	N53:05.61	W006:23.03	N53:53.41	W006:42.76	49.30	91.30
T1498.0	N53:05.61	W006:22.84	N53:53.44	W006:42.59	49.33	91.36
T1499.0	N53:05.61	W006:22.66	N53:53.46	W006:42.41	49.36	91.41
T1500.0	N53:05.60	W006:22.47	N53:53.49	W006:42.23	49.39	91.47
T1501.0	N53:05.60	W006:22.29	N53:13.46	W006:25.48	8.10	15.00
T1501.1	N53:23.77	W006:29.70	N53:53.52	W006:42.05	30.68	56.83

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1502.0	N53:05.60	W006:22.10	N53:13.48	W006:25.30	8.13	15.05
T1502.1	N53:23.80	W006:29.52	N53:53.54	W006:41.88	30.69	56.83
T1503.0	N53:05.60	W006:21.92	N53:13.51	W006:25.13	8.16	15.10
T1503.1	N53:23.82	W006:29.35	N53:53.57	W006:41.70	30.69	56.83
T1504.0	N53:05.00	W006:21.49	N53:13.53	W006:24.96	8.80	16.30
T1504.1	N53:23.85	W006:29.17	N53:53.60	W006:41.52	30.69	56.83
T1505.0	N53:05.02	W006:21.32	N53:13.56	W006:24.78	8.80	16.30
T1505.1	N53:23.88	W006:29.00	N53:53.62	W006:41.35	30.69	56.83
T1506.0	N53:05.05	W006:21.14	N53:13.58	W006:24.61	8.80	16.30
T1506.1	N53:23.90	W006:28.82	N53:53.65	W006:41.17	30.69	56.83
T1507.0	N53:05.07	W006:20.97	N53:13.61	W006:24.43	8.80	16.30
T1507.1	N53:23.93	W006:28.65	N53:53.68	W006:40.99	30.69	56.84
T1508.0	N53:05.10	W006:20.79	N53:13.64	W006:24.26	8.80	16.30
T1508.1	N53:23.95	W006:28.47	N53:53.70	W006:40.82	30.69	56.84
T1509.0	N53:05.12	W006:20.62	N53:13.66	W006:24.08	8.80	16.30
T1509.1	N53:23.98	W006:28.30	N53:53.73	W006:40.64	30.69	56.84
T1510.0	N53:05.15	W006:20.45	N53:13.69	W006:23.91	8.80	16.30
T1510.1	N53:24.00	W006:28.12	N53:53.76	W006:40.46	30.69	56.84
T1511.0	N53:05.17	W006:20.27	N53:13.71	W006:23.73	8.80	16.30
T1511.1	N53:24.03	W006:27.95	N53:53.78	W006:40.29	30.69	56.84
T1512.0	N53:05.20	W006:20.10	N53:13.74	W006:23.56	8.80	16.30
T1512.1	N53:24.05	W006:27.77	N53:53.79	W006:40.10	30.67	56.80
T1513.0	N53:05.22	W006:19.92	N53:13.76	W006:23.38	8.80	16.30
T1513.1	N53:26.18	W006:28.45	N53:53.55	W006:39.81	28.24	52.30
T1514.0	N53:05.25	W006:19.75	N53:13.79	W006:23.21	8.80	16.30
T1514.1	N53:26.20	W006:28.28	N53:52.94	W006:39.37	27.58	51.09
T1515.0	N53:05.28	W006:19.58	N53:13.81	W006:23.03	8.80	16.30
T1515.1	N53:26.23	W006:28.10	N53:52.66	W006:39.06	27.27	50.50
T1516.0	N53:05.30	W006:19.40	N53:13.84	W006:22.86	8.80	16.30
T1516.1	N53:26.25	W006:27.93	N53:52.58	W006:38.84	27.16	50.30
T1517.0	N53:05.33	W006:19.23	N53:13.87	W006:22.69	8.80	16.30
T1517.1	N53:26.28	W006:27.75	N53:52.61	W006:38.67	27.16	50.30
T1518.0	N53:05.35	W006:19.05	N53:13.89	W006:22.51	8.80	16.30
T1518.1	N53:26.30	W006:27.58	N53:51.82	W006:38.14	26.31	48.73
T1519.0	N53:05.38	W006:18.88	N53:13.92	W006:22.34	8.80	16.30
T1519.1	N53:26.33	W006:27.40	N53:51.61	W006:37.87	26.08	48.30
T1520.0	N53:05.40	W006:18.71	N53:13.94	W006:22.16	8.80	16.30
T1520.1	N53:26.35	W006:27.23	N53:51.64	W006:37.70	26.08	48.30
T1521.0	N53:05.43	W006:18.53	N53:13.97	W006:21.99	8.80	16.30
T1521.1	N53:26.38	W006:27.05	N53:50.97	W006:37.23	25.36	46.97
T1522.0	N53:05.45	W006:18.36	N53:13.99	W006:21.81	8.80	16.30
T1522.1	N53:26.41	W006:26.88	N53:50.69	W006:36.92	25.04	46.38
T1523.0	N53:05.48	W006:18.18	N53:14.02	W006:21.64	8.80	16.30
T1523.1	N53:26.43	W006:26.70	N53:50.67	W006:36.73	25.00	46.30
T1524.0	N53:05.50	W006:18.01	N53:14.04	W006:21.46	8.80	16.30
T1524.1	N53:26.46	W006:26.52	N53:50.70	W006:36.55	25.00	46.30
T1525.0	N53:05.53	W006:17.84	N53:14.07	W006:21.29	8.80	16.30
T1525.1	N53:26.48	W006:26.35	N53:49.84	W006:36.00	24.09	44.61
T1526.0	N53:05.54	W006:17.65	N53:14.09	W006:21.11	8.82	16.34
T1526.1	N53:26.51	W006:26.17	N53:49.70	W006:35.76	23.92	44.30
T1527.0	N53:05.53	W006:17.47	N53:14.12	W006:20.94	8.85	16.39
T1527.1	N53:26.53	W006:26.00	N53:49.73	W006:35.58	23.92	44.30
T1528.0	N53:05.53	W006:17.28	N53:14.15	W006:20.76	8.88	16.44
T1528.1	N53:26.56	W006:25.82	N53:48.99	W006:35.09	23.13	42.84
T1529.0	N53:05.53	W006:17.10	N53:14.17	W006:20.59	8.91	16.50
T1529.1	N53:26.59	W006:25.65	N53:48.73	W006:34.79	22.84	42.30
T1530.0	N53:05.53	W006:16.91	N53:14.20	W006:20.42	8.94	16.55

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1530.1	N53:26.61	W006:25.47	N53:48.76	W006:34.62	22.84	42.30
T1531.0	N53:05.52	W006:16.73	N53:14.22	W006:20.24	8.97	16.60
T1531.1	N53:26.64	W006:25.30	N53:48.14	W006:34.17	22.18	41.08
T1532.0	N53:05.52	W006:16.54	N53:14.25	W006:20.07	8.99	16.66
T1532.1	N53:26.66	W006:25.12	N53:47.86	W006:33.87	21.86	40.49
T1533.0	N53:05.52	W006:16.36	N53:14.27	W006:19.89	9.02	16.71
T1533.1	N53:26.69	W006:24.95	N53:47.79	W006:33.65	21.76	40.30
T1534.0	N53:05.51	W006:16.17	N53:14.30	W006:19.72	9.05	16.77
T1534.1	N53:26.71	W006:24.77	N53:47.81	W006:33.47	21.76	40.30
T1535.0	N53:05.51	W006:15.99	N53:14.32	W006:19.54	9.08	16.82
T1535.1	N53:26.74	W006:24.59	N53:47.02	W006:32.95	20.91	38.72
T1536.0	N53:05.51	W006:15.80	N53:14.35	W006:19.37	9.11	16.87
T1536.1	N53:26.76	W006:24.42	N53:46.82	W006:32.68	20.68	38.30
T1537.0	N53:05.51	W006:15.61	N53:14.38	W006:19.19	9.14	16.93
T1537.1	N53:26.79	W006:24.24	N53:46.85	W006:32.51	20.68	38.30
T1538.0	N53:05.50	W006:15.43	N53:14.40	W006:19.02	9.17	16.98
T1538.1	N53:26.82	W006:24.07	N53:46.17	W006:32.04	19.95	36.96
T1539.0	N53:05.50	W006:15.24	N53:14.43	W006:18.84	9.20	17.03
T1539.1	N53:26.84	W006:23.89	N53:45.89	W006:31.73	19.64	36.37
T1540.0	N53:05.50	W006:15.06	N53:14.45	W006:18.67	9.23	17.09
T1540.1	N53:26.87	W006:23.72	N53:45.88	W006:31.54	19.60	36.30
T1541.0	N53:05.50	W006:14.87	N53:14.48	W006:18.49	9.26	17.14
T1541.1	N53:26.89	W006:23.54	N53:45.90	W006:31.37	19.60	36.30
T1542.0	N53:04.91	W006:14.45	N53:14.50	W006:18.32	9.88	18.30
T1542.1	N53:26.92	W006:23.37	N53:45.04	W006:30.82	18.68	34.60
T1543.0	N53:04.94	W006:14.28	N53:14.53	W006:18.15	9.88	18.30
T1543.1	N53:26.94	W006:23.19	N53:44.91	W006:30.58	18.52	34.30
T1544.0	N53:04.96	W006:14.11	N53:14.55	W006:17.97	9.88	18.30
T1544.1	N53:26.97	W006:23.02	N53:44.93	W006:30.40	18.52	34.30
T1545.0	N53:04.99	W006:13.93	N53:14.58	W006:17.80	9.88	18.30
T1545.1	N53:26.99	W006:22.84	N53:44.19	W006:29.91	17.73	32.84
T1546.0	N53:05.01	W006:13.76	N53:14.60	W006:17.62	9.88	18.30
T1546.1	N53:27.02	W006:22.66	N53:43.94	W006:29.61	17.44	32.30
T1547.0	N53:05.04	W006:13.58	N53:14.63	W006:17.45	9.88	18.30
T1547.1	N53:27.05	W006:22.49	N53:43.96	W006:29.44	17.44	32.30
T1548.0	N53:05.07	W006:13.41	N53:14.65	W006:17.27	9.88	18.30
T1548.1	N53:27.07	W006:22.31	N53:43.34	W006:29.00	16.78	31.07
T1549.0	N53:05.09	W006:13.24	N53:14.68	W006:17.10	9.88	18.30
T1549.1	N53:27.10	W006:22.14	N53:43.06	W006:28.69	16.46	30.48
T1550.0	N53:05.12	W006:13.06	N53:14.71	W006:16.92	9.88	18.30
T1550.1	N53:27.12	W006:21.96	N53:42.99	W006:28.48	16.36	30.30
T1551.0	N53:05.14	W006:12.89	N53:14.73	W006:16.75	9.88	18.30
T1551.1	N53:27.15	W006:21.79	N53:43.02	W006:28.30	16.36	30.30
T1552.0	N53:05.17	W006:12.71	N53:14.76	W006:16.57	9.88	18.30
T1552.1	N53:27.17	W006:21.61	N53:42.21	W006:27.78	15.50	28.71
T1553.0	N53:05.19	W006:12.54	N53:14.78	W006:16.40	9.88	18.30
T1553.1	N53:27.20	W006:21.44	N53:42.02	W006:27.51	15.28	28.30
T1554.0	N53:05.22	W006:12.37	N53:14.81	W006:16.22	9.88	18.30
T1554.1	N53:27.22	W006:21.26	N53:42.05	W006:27.34	15.28	28.30
T1555.0	N53:05.24	W006:12.19	N53:14.83	W006:16.05	9.88	18.30
T1555.1	N53:27.25	W006:21.09	N53:42.07	W006:27.16	15.28	28.30
T1556.0	N53:05.27	W006:12.02	N53:14.86	W006:15.87	9.88	18.30
T1556.1	N53:27.27	W006:20.91	N53:42.10	W006:26.98	15.28	28.30
T1557.0	N53:05.29	W006:11.84	N53:14.88	W006:15.70	9.88	18.30
T1557.1	N53:27.30	W006:20.73	N53:42.12	W006:26.81	15.28	28.30
T1558.0	N53:05.32	W006:11.67	N53:14.91	W006:15.52	9.88	18.30
T1558.1	N53:27.33	W006:20.56	N53:42.15	W006:26.63	15.28	28.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1559.0	N53:05.34	W006:11.50	N53:14.93	W006:15.35	9.88	18.30
T1559.1	N53:27.35	W006:20.38	N53:42.17	W006:26.45	15.28	28.30
T1560.0	N53:05.37	W006:11.32	N53:14.96	W006:15.18	9.88	18.30
T1560.1	N53:27.38	W006:20.21	N53:42.20	W006:26.28	15.28	28.30
T1561.0	N53:05.39	W006:11.15	N53:14.98	W006:15.00	9.88	18.30
T1561.1	N53:27.40	W006:20.03	N53:42.23	W006:26.10	15.28	28.30
T1562.0	N53:05.42	W006:10.97	N53:15.01	W006:14.83	9.88	18.30
T1562.1	N53:27.43	W006:19.86	N53:42.25	W006:25.93	15.28	28.30
T1563.0	N53:05.43	W006:10.79	N53:15.04	W006:14.65	9.89	18.32
T1563.1	N53:27.45	W006:19.68	N53:42.28	W006:25.75	15.28	28.30
T1564.0	N53:05.43	W006:10.61	N53:15.06	W006:14.48	9.92	18.37
T1564.1	N53:27.48	W006:19.51	N53:42.30	W006:25.57	15.28	28.30
T1565.0	N53:05.43	W006:10.42	N53:15.09	W006:14.30	9.95	18.43
T1565.1	N53:27.50	W006:19.33	N53:42.33	W006:25.40	15.28	28.30
T1566.0	N53:05.43	W006:10.24	N53:15.11	W006:14.13	9.98	18.48
T1566.1	N53:27.53	W006:19.15	N53:42.35	W006:25.22	15.28	28.30
T1567.0	N53:05.42	W006:10.05	N53:15.14	W006:13.95	10.01	18.53
T1567.1	N53:27.55	W006:18.98	N53:42.38	W006:25.04	15.28	28.30
T1568.0	N53:05.42	W006:09.87	N53:13.07	W006:12.93	7.88	14.59
T1568.1	N53:27.58	W006:18.80	N53:42.40	W006:24.87	15.28	28.30
T1569.0	N53:05.42	W006:09.68	N53:13.09	W006:12.76	7.91	14.64
T1569.1	N53:27.61	W006:18.63	N53:42.43	W006:24.69	15.28	28.30
T1570.0	N53:05.41	W006:09.50	N53:13.12	W006:12.58	7.93	14.69
T1570.1	N53:27.63	W006:18.45	N53:42.46	W006:24.51	15.28	28.30
T1571.0	N53:05.41	W006:09.31	N53:13.14	W006:12.41	7.96	14.75
T1571.1	N53:27.66	W006:18.28	N53:42.48	W006:24.34	15.28	28.30
T1572.0	N53:05.41	W006:09.13	N53:13.17	W006:12.23	7.99	14.80
T1572.1	N53:27.68	W006:18.10	N53:42.51	W006:24.16	15.28	28.30
T1573.0	N53:05.41	W006:08.94	N53:13.19	W006:12.06	8.02	14.86
T1573.1	N53:27.71	W006:17.93	N53:42.53	W006:23.98	15.28	28.30
T1574.0	N53:05.40	W006:08.76	N53:13.22	W006:11.89	8.05	14.91
T1574.1	N53:27.73	W006:17.75	N53:42.56	W006:23.81	15.28	28.30
T1575.0	N53:05.40	W006:08.57	N53:13.24	W006:11.71	8.08	14.96
T1575.1	N53:27.76	W006:17.57	N53:42.58	W006:23.63	15.28	28.30
T1576.0	N53:05.40	W006:08.39	N53:13.27	W006:11.54	8.11	15.02
T1576.1	N53:27.78	W006:17.40	N53:42.61	W006:23.45	15.28	28.30
T1577.0	N53:05.39	W006:08.20	N53:13.29	W006:11.36	8.14	15.07
T1577.1	N53:27.81	W006:17.22	N53:42.63	W006:23.28	15.28	28.30
T1578.0	N53:05.39	W006:08.01	N53:13.32	W006:11.19	8.17	15.12
T1578.1	N53:27.83	W006:17.05	N53:42.66	W006:23.10	15.28	28.30
T1579.0	N53:04.80	W006:07.59	N53:13.34	W006:11.01	8.80	16.30
T1579.1	N53:27.86	W006:16.87	N53:42.69	W006:22.92	15.28	28.30
T1580.0	N53:04.83	W006:07.42	N53:13.37	W006:10.84	8.80	16.30
T1580.1	N53:27.89	W006:16.70	N53:42.71	W006:22.75	15.28	28.30
T1581.0	N53:04.85	W006:07.25	N53:13.39	W006:10.66	8.80	16.30
T1581.1	N53:27.91	W006:16.52	N53:42.74	W006:22.57	15.28	28.30
T1582.0	N53:04.88	W006:07.07	N53:13.42	W006:10.49	8.80	16.30
T1582.1	N53:27.94	W006:16.34	N53:42.76	W006:22.39	15.28	28.30
T1583.0	N53:04.90	W006:06.90	N53:13.44	W006:10.31	8.80	16.30
T1583.1	N53:27.96	W006:16.17	N53:42.79	W006:22.22	15.28	28.30
T1584.0	N53:04.93	W006:06.72	N53:13.47	W006:10.14	8.80	16.30
T1584.1	N53:27.99	W006:15.99	N53:42.81	W006:22.04	15.28	28.30
T1585.0	N53:04.95	W006:06.55	N53:13.50	W006:09.96	8.80	16.30
T1585.1	N53:28.01	W006:15.82	N53:42.84	W006:21.86	15.28	28.30
T1586.0	N53:04.98	W006:06.38	N53:13.52	W006:09.79	8.80	16.30
T1586.1	N53:28.04	W006:15.64	N53:42.86	W006:21.69	15.28	28.30
T1587.0	N53:05.00	W006:06.20	N53:10.40	W006:08.36	5.56	10.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1587.1	N53:28.06	W006:15.47	N53:42.89	W006:21.51	15.28	28.30
T1588.0	N53:05.03	W006:06.03	N53:10.43	W006:08.18	5.56	10.30
T1588.1	N53:28.09	W006:15.29	N53:42.91	W006:21.33	15.28	28.30
T1589.0	N53:05.05	W006:05.85	N53:10.45	W006:08.01	5.56	10.30
T1589.1	N53:28.11	W006:15.12	N53:42.94	W006:21.16	15.28	28.30
T1590.0	N53:05.08	W006:05.68	N53:10.48	W006:07.83	5.56	10.30
T1590.1	N53:28.14	W006:14.94	N53:42.97	W006:20.98	15.28	28.30
T1591.0	N53:05.10	W006:05.50	N53:10.50	W006:07.66	5.56	10.30
T1591.1	N53:28.16	W006:14.76	N53:42.99	W006:20.80	15.28	28.30
T1592.0	N53:05.13	W006:05.33	N53:10.53	W006:07.48	5.56	10.30
T1592.1	N53:28.19	W006:14.59	N53:43.02	W006:20.63	15.28	28.30
T1593.0	N53:05.15	W006:05.16	N53:10.55	W006:07.31	5.56	10.30
T1593.1	N53:28.21	W006:14.41	N53:43.04	W006:20.45	15.28	28.30
T1594.0	N53:05.18	W006:04.98	N53:10.58	W006:07.13	5.56	10.30
T1594.1	N53:28.24	W006:14.24	N53:43.07	W006:20.27	15.28	28.30
T1595.0	N53:05.20	W006:04.81	N53:10.60	W006:06.96	5.56	10.30
T1595.1	N53:28.27	W006:14.06	N53:43.09	W006:20.10	15.28	28.30
T1596.0	N53:05.23	W006:04.63	N53:10.63	W006:06.79	5.56	10.30
T1596.1	N53:28.29	W006:13.89	N53:43.12	W006:19.92	15.28	28.30
T1597.0	N53:05.25	W006:04.46	N53:10.65	W006:06.61	5.56	10.30
T1597.1	N53:28.32	W006:13.71	N53:43.14	W006:19.74	15.28	28.30
T1598.0	N53:05.28	W006:04.29	N53:10.68	W006:06.44	5.56	10.30
T1598.1	N53:28.34	W006:13.53	N53:43.17	W006:19.57	15.28	28.30
T1599.0	N53:05.30	W006:04.11	N53:10.70	W006:06.26	5.56	10.30
T1599.1	N53:28.37	W006:13.36	N53:43.19	W006:19.39	15.28	28.30
T1600.0	N53:05.33	W006:03.94	N53:10.73	W006:06.09	5.56	10.30
T1600.1	N53:28.39	W006:13.18	N53:43.22	W006:19.21	15.28	28.30
T1601.0	N53:05.32	W006:03.75	N53:10.75	W006:05.91	5.59	10.36
T1601.1	N53:28.42	W006:13.01	N53:43.25	W006:19.04	15.28	28.30
T1602.0	N53:05.32	W006:03.57	N53:10.78	W006:05.74	5.62	10.41
T1602.1	N53:28.44	W006:12.83	N53:43.27	W006:18.86	15.28	28.30
T1603.0	N53:05.32	W006:03.38	N53:10.80	W006:05.56	5.65	10.46
T1603.1	N53:28.47	W006:12.66	N53:43.30	W006:18.69	15.28	28.30
T1604.0	N53:05.31	W006:03.20	N53:10.83	W006:05.39	5.68	10.52
T1604.1	N53:28.49	W006:12.48	N53:43.32	W006:18.51	15.28	28.30
T1605.0	N53:05.31	W006:03.01	N53:10.85	W006:05.21	5.71	10.57
T1605.1	N53:28.52	W006:12.30	N53:43.35	W006:18.33	15.28	28.30
T1606.0	N53:05.31	W006:02.82	N53:10.88	W006:05.04	5.74	10.62
T1606.1	N53:28.54	W006:12.13	N53:43.37	W006:18.15	15.28	28.30
T1607.0	N53:05.31	W006:02.64	N53:10.90	W006:04.87	5.77	10.68
T1607.1	N53:28.57	W006:11.95	N53:43.40	W006:17.98	15.28	28.30
T1608.0	N53:05.30	W006:02.45	N53:10.93	W006:04.69	5.79	10.73
T1608.1	N53:28.59	W006:11.78	N53:43.42	W006:17.80	15.28	28.30
T1609.0	N53:05.30	W006:02.27	N53:10.95	W006:04.52	5.82	10.79
T1609.1	N53:28.62	W006:11.60	N53:43.45	W006:17.62	15.28	28.30
T1610.0	N53:05.30	W006:02.08	N53:10.98	W006:04.34	5.85	10.84
T1610.1	N53:28.64	W006:11.43	N53:43.47	W006:17.45	15.28	28.30
T1611.0	N53:05.29	W006:01.90	N53:11.00	W006:04.17	5.88	10.89
T1611.1	N53:28.67	W006:11.25	N53:43.50	W006:17.27	15.28	28.30
T1612.0	N53:05.29	W006:01.71	N53:11.03	W006:03.99	5.91	10.95
T1612.1	N53:28.69	W006:11.07	N53:43.53	W006:17.09	15.28	28.30
T1613.0	N53:05.29	W006:01.53	N53:11.05	W006:03.82	5.94	11.00
T1613.1	N53:28.72	W006:10.90	N53:43.55	W006:16.92	15.28	28.30
T1614.0	N53:28.75	W006:10.72	N53:43.58	W006:16.74	15.28	28.30
T1615.0	N53:28.77	W006:10.55	N53:43.60	W006:16.56	15.28	28.30
T1616.0	N53:28.80	W006:10.37	N53:43.63	W006:16.39	15.28	28.30
T1617.0	N53:28.82	W006:10.20	N53:43.65	W006:16.21	15.28	28.30

PLANNED SURVEY LINES
WGS-84, UTM 29N

SEGMENT NO	START		END		LENGTH	
	LAT	LONG	LAT	LONG	NM	KM
T1618.0	N53:28.85	W006:10.02	N53:43.68	W006:16.03	15.28	28.30
T1619.0	N53:28.87	W006:09.84	N53:43.70	W006:15.86	15.28	28.30
T1620.0	N53:28.90	W006:09.67	N53:43.73	W006:15.68	15.28	28.30
T1621.0	N53:28.92	W006:09.49	N53:43.75	W006:15.50	15.28	28.30
T1622.0	N53:28.95	W006:09.32	N53:43.78	W006:15.33	15.28	28.30
T1623.0	N53:28.97	W006:09.14	N53:43.80	W006:15.15	15.28	28.30
T1624.0	N53:29.00	W006:08.97	N53:43.83	W006:14.97	15.28	28.30
T1625.0	N53:29.02	W006:08.79	N53:43.85	W006:14.80	15.28	28.30
T1626.0	N53:29.05	W006:08.61	N53:43.88	W006:14.62	15.28	28.30
T1627.0	N53:29.07	W006:08.44	N53:43.91	W006:14.44	15.28	28.30
T1628.0	N53:29.10	W006:08.26	N53:43.93	W006:14.27	15.28	28.30
T1629.0	N53:29.12	W006:08.09	N53:43.96	W006:14.09	15.28	28.30
T1630.0	N53:29.15	W006:07.91	N53:43.98	W006:13.91	15.28	28.30
T1631.0	N53:29.17	W006:07.74	N53:44.01	W006:13.74	15.28	28.30
T1632.0	N53:29.20	W006:07.56	N53:44.03	W006:13.56	15.28	28.30
T1633.0	N53:29.22	W006:07.38	N53:44.06	W006:13.38	15.28	28.30
T1634.0	N53:29.25	W006:07.21	N53:44.08	W006:13.21	15.28	28.30
T1635.0	N53:29.27	W006:07.03	N53:36.77	W006:10.05	7.72	14.30
T1636.0	N53:29.30	W006:06.86	N53:36.80	W006:09.88	7.72	14.30
T1637.0	N53:29.32	W006:06.68	N53:36.82	W006:09.70	7.72	14.30
T1638.0	N53:29.35	W006:06.51	N53:36.85	W006:09.53	7.72	14.30
T1639.0	N53:29.37	W006:06.33	N53:35.82	W006:08.93	6.64	12.30
T1640.0	N53:29.40	W006:06.15	N53:35.85	W006:08.75	6.64	12.30
T1641.0	N53:29.43	W006:05.98	N53:35.87	W006:08.57	6.64	12.30
T1642.0	N53:29.45	W006:05.80	N53:35.90	W006:08.40	6.64	12.30
T1643.0	N53:29.48	W006:05.63	N53:35.92	W006:08.22	6.64	12.30
T1644.0	N53:29.50	W006:05.45	N53:35.95	W006:08.04	6.64	12.30
T1645.0	N53:30.57	W006:05.70	N53:35.97	W006:07.87	5.56	10.30
T1646.0	N53:30.60	W006:05.52	N53:36.00	W006:07.69	5.56	10.30
T1647.0	N53:30.62	W006:05.34	N53:36.02	W006:07.52	5.56	10.30
T1648.0	N53:30.65	W006:05.17	N53:36.05	W006:07.34	5.56	10.30
T1649.0	N53:30.67	W006:04.99	N53:36.07	W006:07.16	5.56	10.30
T1650.0	N53:30.70	W006:04.82	N53:36.10	W006:06.99	5.56	10.30
T1651.0	N53:30.72	W006:04.64	N53:36.12	W006:06.81	5.56	10.30
T1652.0	N53:30.75	W006:04.46	N53:36.15	W006:06.63	5.56	10.30
T1653.0	N53:30.77	W006:04.29	N53:36.17	W006:06.46	5.56	10.30
T1654.0	N53:30.80	W006:04.11	N53:36.20	W006:06.28	5.56	10.30
T1655.0	N53:30.82	W006:03.94	N53:36.22	W006:06.11	5.56	10.30
T1656.0	N53:30.85	W006:03.76	N53:36.25	W006:05.93	5.56	10.30
T1657.0	N53:30.87	W006:03.58	N53:36.28	W006:05.75	5.56	10.30
T1658.0	N53:30.90	W006:03.41	N53:36.30	W006:05.58	5.56	10.30
T1659.0	N53:30.93	W006:03.23	N53:36.33	W006:05.40	5.56	10.30
T1660.0	N53:30.95	W006:03.06	N53:36.35	W006:05.22	5.56	10.30

Total control line length = 1661.04 nautical miles
= 3076.24 kilometers.

Total traverse line length = 15964.37 nautical miles
= 29566.01 kilometers.

Total length of all lines = 17625.41 nautical miles
= 32642.26 kilometers.



Appendix III



MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
101.00	41250.00	41356.10	725334.74	732187.74	705020.15	706842.55	48	248	2015
102.00	40733.30	40982.10	717668.07	731671.43	705035.30	708783.45	48	248	2015
103.00	40290.30	40645.80	709810.18	731148.88	704992.70	710714.74	48	248	2015
104.00	39607.60	40094.00	702147.16	730633.19	705010.49	712648.84	48	248	2015
105.00	38923.00	39534.40	694477.90	730114.44	705026.35	714579.38	48	248	2015
106.00	38003.10	38736.80	686622.00	729600.63	704990.02	716511.56	48	248	2015
107.00	37055.60	37837.70	678954.68	723864.53	705007.35	717048.90	48	248	2015
108.00	35944.90	36876.80	671287.90	723346.00	705028.07	718980.26	48	248	2015
109.00	34810.70	35813.40	663431.26	722833.97	704988.82	720903.04	48	248	2015
110.00	51784.20	52802.20	655766.54	707342.06	705006.11	718811.46	71	273	2015
110.01	37958.50	38147.50	707248.66	718645.01	718805.36	721862.01	87	288	2015
111.00	53333.00	54286.00	648102.13	707596.63	705023.58	720967.49	71	273	2015
111.01	38257.30	38427.10	707502.24	718128.66	720939.70	723791.06	87	288	2015
112.00	54505.30	55704.40	640239.36	704661.33	704982.51	722251.26	71	273	2015
113.00	56091.30	57251.50	632571.69	704147.11	705002.52	724183.03	71	273	2015
114.00	42439.00	43782.90	624904.17	703628.42	705026.03	726116.57	64	269	2015
115.00	40726.40	42253.00	617241.07	699540.06	705029.67	727091.39	64	269	2015
115.01	32562.60	32628.90	699443.11	703109.48	727059.94	728039.52	90	290	2015
116.00	38904.00	40572.60	609378.36	701720.60	704999.29	729757.23	64	269	2015
116.01	32722.00	32738.00	701631.46	702592.83	729719.77	729974.93	90	290	2015
117.00	37914.90	38750.40	605384.62	651560.00	705992.87	718393.50	64	269	2015
117.01	33832.60	34733.00	651461.64	702075.53	718340.37	731914.06	79	282	2015
118.00	36989.70	37847.50	604867.55	652197.53	707938.68	720611.58	64	269	2015
118.01	31896.60	32825.80	652099.38	701556.64	720594.85	733845.92	79	282	2015
119.00	35097.60	35770.60	663372.79	701039.40	725693.43	735780.96	64	269	2015
119.01	36018.60	36846.00	604347.76	651101.67	709861.23	722380.72	64	269	2015
119.02	33055.20	33278.30	651005.56	663466.75	722367.07	725703.52	79	282	2015
120.00	42593.70	44172.40	603831.48	700523.61	711798.84	737705.38	75	280	2015
121.00	61440.50	62957.00	603312.99	696238.32	713727.27	738622.43	80	282	2015
121.01	45982.00	46079.80	696146.09	702321.94	738599.42	740256.22	86	287	2015
122.00	44031.70	45577.80	602796.19	688571.63	715655.69	738656.38	86	287	2015
122.01	45708.80	45936.50	688473.79	701805.03	738625.75	742199.36	86	287	2015
123.00	38573.60	40678.80	602277.03	726787.22	717593.25	750961.55	86	287	2015
124.00	57898.10	58240.70	710243.44	729360.08	748596.18	753712.28	80	282	2015
124.01	42118.80	43915.30	601761.13	710335.14	719527.16	748603.29	86	287	2015
125.00	56530.00	57812.90	653504.27	728842.25	735453.92	755648.66	80	282	2015
125.01	59253.10	60191.90	601241.57	653597.83	721463.93	735478.02	80	282	2015
126.00	39909.40	40419.00	600724.39	629215.44	723391.76	731021.46	5	183	2015
126.10	54862.50	56301.00	649219.25	728325.24	736378.31	757579.13	80	282	2015
127.01	39444.90	40014.60	600207.81	628700.01	725319.39	732955.29	75	280	2015
127.10	53392.90	54765.80	648706.37	727810.81	738313.95	759514.97	80	282	2015
128.01	40136.50	40615.70	599688.53	628182.35	727253.17	734887.36	75	280	2015
128.10	36546.70	38013.60	648186.89	727290.10	740248.99	761437.90	79	282	2015
129.01	40773.60	41321.70	599168.68	627664.24	729181.95	736815.64	75	280	2015
129.10	35431.00	36414.50	667564.73	726772.74	747505.33	763377.59	79	282	2015
130.00	51503.20	52537.00	667049.45	722004.73	749444.16	764173.87	69	272	2015
131.00	44765.30	45782.10	666532.09	720718.93	751370.12	765887.36	69	272	2015
132.00	45846.10	46779.30	666017.18	720200.70	753312.95	767821.79	69	272	2015
133.00	52684.70	53575.40	665498.61	719680.35	755236.93	769754.14	69	272	2015
134.00	46910.00	47954.10	664978.83	719166.97	757167.14	771684.40	69	272	2015
135.00	50105.80	51013.20	664463.11	718646.78	759108.79	773613.87	69	272	2015
136.00	48066.90	48934.30	667422.82	718129.97	761965.66	775548.58	69	272	2015
137.00	49044.00	49983.80	666902.80	717612.07	763891.97	777482.82	69	272	2015
138.00	53874.30	54451.90	666389.46	701059.39	765822.49	775123.73	59	267	2015
139.00	54590.70	55261.60	665862.66	699771.62	767755.90	776833.43	59	267	2015
140.00	42799.70	43405.70	662447.16	698674.69	768918.71	778615.46	62	268	2015
141.00	42060.30	42706.70	661928.03	697575.71	770850.13	780435.63	62	268	2015
142.00	41386.20	41967.80	661403.21	696285.93	772781.23	782123.08	62	268	2015
143.00	40640.80	41300.30	660884.71	695190.73	774706.35	783899.01	62	268	2015
144.00	39952.80	40511.50	660360.82	693897.84	776638.75	785620.82	62	268	2015
145.00	39233.00	39589.50	672812.87	692803.93	782042.89	787409.84	62	268	2015
146.00	38809.80	39129.00	672293.32	691705.28	783990.29	789174.84	62	268	2015
147.00	38353.30	38721.30	671772.15	690414.18	785907.02	790902.64	62	268	2015
148.00	37952.30	38249.80	671241.05	689318.79	787836.10	792678.51	62	268	2015
149.00	37550.70	37862.10	670711.87	688026.45	789766.05	794402.55	62	268	2015
1001.00	59881.20	60258.50	599275.57	605560.14	705897.70	729365.50	1002	181	2015
1002.00	60359.30	60842.90	599462.10	605753.81	705949.61	729420.71	1002	181	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1003.00	60954.80	61331.70	599662.27	605952.10	705994.95	729472.52	1002	181	2015
1004.00	61453.00	61891.00	599856.69	606160.42	705992.94	729520.41	1002	181	2015
1005.00	62058.70	62451.10	600050.69	606374.29	705994.16	729573.81	1002	181	2015
1006.00	62572.90	62993.60	600238.88	606571.73	705993.60	729626.79	1002	181	2015
1007.00	63156.00	63532.40	600436.85	606782.23	705996.87	729678.03	1002	181	2015
1008.00	63667.50	64098.20	600620.56	606991.55	705994.35	729732.38	1002	181	2015
1009.00	64207.80	64587.00	600824.17	607192.24	705997.15	729778.84	1002	181	2015
1010.00	64727.50	65203.50	601017.70	607397.75	705994.48	729834.75	1002	181	2015
1011.00	65336.20	65738.60	601203.98	607612.31	705994.68	729887.35	1002	181	2015
1012.00	32889.50	33307.30	601389.64	607811.88	705996.40	729937.57	1003	182	2015
1013.01	31144.70	31566.90	601592.91	608023.81	705994.14	729989.44	11	200	2015
1014.01	31717.20	32143.40	601787.88	608228.60	705996.88	730040.82	11	200	2015
1015.01	32293.60	32718.00	601976.06	608444.11	705994.27	730093.10	11	200	2015
1016.00	35286.50	35727.50	602172.53	608642.46	705994.11	730144.16	1003	182	2015
1017.00	35871.70	36313.30	602367.92	608849.99	705992.81	730197.04	1003	182	2015
1018.00	36432.30	36854.90	602554.58	609061.45	705993.46	730248.04	1003	182	2015
1019.00	37022.60	37484.40	602757.37	609554.00	704899.01	730300.12	1003	182	2015
1020.00	37602.80	38044.60	602941.84	609746.77	704950.44	730351.95	1003	182	2015
1021.00	38225.10	38698.20	603135.94	609949.11	705000.03	730405.55	1003	182	2015
1022.00	38859.50	39330.80	603328.77	610144.48	705051.91	730454.16	1003	182	2015
1023.00	39492.10	39961.30	603524.48	610333.23	705101.89	730508.24	1003	182	2015
1024.00	40131.00	40605.10	603715.66	610522.45	705157.56	730560.48	1003	182	2015
1025.00	40739.50	41203.50	603917.13	610717.72	705209.55	730611.97	1003	182	2015
1026.00	41357.60	41824.40	604106.00	610916.46	705258.79	730663.64	1003	182	2015
1027.00	41965.40	42429.00	604301.57	611105.92	705309.86	730714.81	1003	182	2015
1028.01	37877.80	38346.50	604497.16	611301.18	705361.35	730767.59	75	280	2015
1029.01	37266.70	37709.20	604688.89	611492.38	705415.29	730816.32	75	280	2015
1030.01	36678.30	37128.20	604879.55	611685.55	705467.21	730867.26	75	280	2015
1031.01	36103.00	36544.40	605075.77	611882.20	705517.08	730922.13	75	280	2015
1032.01	35518.20	35966.30	605266.01	612069.81	705571.97	730971.48	75	280	2015
1033.01	34942.50	35375.40	605462.17	612268.68	705623.61	731022.45	75	280	2015
1034.00	44408.30	44883.80	605651.50	612455.15	705675.82	731078.21	5	183	2015
1035.00	45042.90	45490.20	605842.34	612657.18	705724.71	731127.75	5	183	2015
1036.00	45673.90	46135.90	606034.33	612848.99	705779.35	731180.88	5	183	2015
1037.00	46312.40	46747.30	606234.66	613037.63	705828.83	731229.19	5	183	2015
1038.00	46924.30	47377.20	606427.95	613230.01	705881.65	731281.90	5	183	2015
1039.00	47514.00	47958.80	606615.42	613426.25	705931.23	731333.69	5	183	2015
1040.00	31718.10	32163.80	606810.62	613614.59	705988.11	731387.07	7	184	2015
1041.00	32357.20	32797.60	607005.35	613821.31	705993.03	731435.85	7	184	2015
1042.00	33007.40	33470.00	607192.59	614030.79	705995.21	731492.75	7	184	2015
1043.00	33640.40	34082.40	607390.12	614233.20	705992.58	731541.29	7	184	2015
1044.01	54682.00	55088.00	607582.99	614440.95	705992.48	731592.51	65	270	2015
1045.01	54098.50	54570.30	607787.45	614654.79	705991.90	731643.76	65	270	2015
1046.01	41589.80	42010.30	607971.29	614852.10	705996.54	731700.00	65	270	2015
1047.01	40986.90	41469.80	608165.51	615065.18	705991.37	731747.79	65	270	2015
1048.01	40416.30	40840.60	608356.25	615280.46	705993.66	731797.53	65	270	2015
1049.01	39768.50	40296.30	608549.56	615476.01	705993.83	731852.04	65	270	2015
1050.01	39201.70	39620.80	608743.41	615676.21	705997.64	731902.44	65	270	2015
1051.01	38612.50	39096.20	608936.65	615889.05	705996.47	731958.75	65	270	2015
1052.01	38053.30	38470.40	609129.17	616103.28	705995.28	732006.77	65	270	2015
1053.01	37417.40	37933.70	609320.35	616309.33	705995.50	732058.80	65	270	2015
1054.01	36852.80	37274.20	609511.95	616505.15	705993.57	732112.43	65	270	2015
1055.01	36217.40	36723.80	609702.23	616722.68	705992.13	732164.78	65	270	2015
1056.01	35628.60	36054.20	609902.67	616927.15	705993.68	732214.19	65	270	2015
1057.01	34956.70	35500.30	610093.25	617418.44	704930.98	732266.73	65	270	2015
1058.01	34365.20	34824.20	610287.64	617601.82	704984.13	732319.93	65	270	2015
1059.01	33709.50	34232.40	610483.74	617805.21	705037.00	732373.19	65	270	2015
1060.01	33106.60	33563.80	610672.36	617984.68	705089.61	732421.87	65	270	2015
1061.01	32450.70	32981.70	610865.96	618196.52	705138.77	732475.17	65	270	2015
1062.01	31803.20	32266.20	611062.69	618382.19	705191.09	732524.03	65	270	2015
1063.01	31159.90	31664.90	611256.90	618575.58	705244.40	732578.82	65	270	2015
1064.00	32932.40	33430.00	611444.53	618768.72	705294.42	732627.21	11	200	2015
1065.00	33578.00	34062.30	611638.54	618958.84	705349.98	732681.50	11	200	2015
1066.00	34203.90	34703.30	611829.59	619156.09	705400.14	732732.04	11	200	2015
1067.00	34829.70	35322.10	612025.79	619348.97	705453.16	732785.81	11	200	2015
1068.00	35495.30	35985.30	612223.74	619545.48	705500.43	732835.55	11	200	2015
1069.00	36158.40	36643.20	612417.00	619737.87	705553.95	732886.75	11	200	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1070.01	43017.70	43520.60	612609.82	619953.61	705603.75	732942.07	94	295	2015
1071.00	37403.10	37895.40	612806.24	620122.30	705657.51	732989.73	11	200	2015
1072.00	38039.70	38536.60	612993.25	620313.76	705708.85	733044.32	11	200	2015
1073.00	38701.30	39184.40	613188.49	620504.82	705759.80	733093.80	11	200	2015
1074.00	39318.00	39811.10	613376.87	620702.08	705811.35	733146.78	11	200	2015
1075.00	39944.80	40442.10	613567.75	620892.75	705863.11	733198.82	11	200	2015
1076.00	40623.50	41119.50	613769.94	621091.05	705917.65	733252.20	11	200	2015
1077.00	41267.80	41759.30	613961.49	621280.81	705968.51	733302.53	11	200	2015
1078.00	51044.40	51521.90	614152.89	621485.28	705991.56	733356.26	12	202	2015
1079.00	32298.60	32796.00	614342.34	621690.74	705993.10	733406.22	13	203	2015
1080.00	31621.60	32119.10	614539.68	621882.72	705995.52	733455.87	13	203	2015
1081.00	61493.60	61996.50	614729.11	622100.34	705993.58	733512.03	14	203	2015
1082.00	32925.10	33416.20	614924.35	622312.87	705991.91	733561.41	13	203	2015
1083.00	62794.60	63298.80	615112.96	622518.56	705994.94	733615.78	14	203	2015
1084.00	60839.80	61337.90	615322.01	622728.07	705992.72	733666.17	14	203	2015
1085.00	64064.70	64570.90	615505.08	622936.92	705992.40	733718.22	14	203	2015
1086.00	62114.30	62599.40	615710.70	623139.25	705991.38	733766.05	14	203	2015
1087.00	65308.70	65814.60	615894.61	623348.56	705996.26	733820.79	14	203	2015
1088.00	63423.60	63926.70	616086.29	623556.50	705995.56	733872.92	14	203	2015
1089.00	36218.70	36712.10	616277.20	623767.10	705992.02	733920.55	15	204	2015
1090.00	64689.00	65181.60	616480.04	623970.96	705993.27	733977.23	14	203	2015
1091.00	39734.40	40225.70	616665.58	624175.58	705991.32	734026.54	15	204	2015
1092.00	36835.20	37340.90	616854.33	624373.64	705992.45	734077.11	15	204	2015
1093.00	41094.50	41589.30	617050.36	624596.93	705995.64	734132.78	15	204	2015
1094.00	39042.00	39571.60	617249.56	625086.41	704918.37	734179.70	15	204	2015
1095.00	42422.20	42938.70	617432.97	625278.98	704970.59	734234.15	15	204	2015
1096.00	40341.50	40887.40	617625.07	625468.89	705018.55	734288.07	15	204	2015
1097.00	43720.20	44234.30	617818.36	625663.76	705070.54	734334.67	15	204	2015
1098.00	41730.60	42271.40	618015.75	625859.05	705124.13	734387.82	15	204	2015
1099.00	52048.40	52590.30	618211.64	626046.41	705176.13	734440.59	12	202	2015
1100.00	52860.90	53381.10	618408.64	626250.96	705226.08	734494.54	12	202	2015
1101.00	53572.30	54116.60	618598.66	626437.31	705277.09	734543.09	12	202	2015
1102.00	43056.00	43601.70	618783.38	626625.32	705332.18	734598.32	15	204	2015
1103.00	45083.80	45600.60	618978.67	626822.51	705385.44	734651.10	15	204	2015
1104.00	44370.00	44903.50	619174.07	627015.95	705435.85	734698.17	15	204	2015
1105.00	53263.60	53792.50	619369.34	627212.83	705488.52	734750.15	15	204	2015
1106.00	53935.90	54456.90	619565.96	627405.24	705536.54	734805.51	15	204	2015
1107.00	54630.90	55146.90	619755.15	627599.93	705589.74	734858.27	15	204	2015
1108.00	55274.00	55815.70	619948.15	627789.21	705642.91	734905.58	15	204	2015
1109.00	55934.10	56454.80	620139.14	627983.61	705690.10	734958.22	15	204	2015
1110.00	56582.30	57116.10	620334.22	628178.29	705743.30	735011.10	15	204	2015
1111.00	57278.10	57792.20	620534.47	628370.85	705794.22	735061.11	15	204	2015
1112.00	52640.20	53168.60	620723.59	628556.23	705847.34	735116.67	15	204	2015
1113.00	33590.10	34094.20	620925.39	628746.64	705902.80	735163.55	13	203	2015
1114.00	57911.10	58434.60	621102.29	628950.71	705954.76	735217.79	15	204	2015
1115.00	58565.70	59102.40	621300.53	629151.97	705991.96	735267.52	15	204	2015
1116.00	59222.60	59738.90	621495.94	629356.98	705996.20	735322.10	15	204	2015
1117.00	59892.90	60413.70	621687.77	629556.52	705996.42	735370.73	15	204	2015
1118.00	60527.80	61061.80	621882.56	629764.84	705994.51	735424.21	15	204	2015
1119.00	61183.00	61717.70	622073.80	629980.28	705993.80	735473.74	15	204	2015
1120.00	61840.70	62371.80	622263.54	630184.04	705995.16	735530.40	15	204	2015
1121.00	62583.40	63117.90	622458.55	630389.64	705992.19	735578.58	15	204	2015
1122.00	32826.90	33354.40	622568.24	630591.11	705994.08	735632.95	17	205	2015
1123.00	33511.40	34057.00	622844.81	630796.95	705993.40	735683.49	17	205	2015
1124.00	34160.70	34668.80	622957.49	631015.68	705992.45	735737.33	17	205	2015
1125.00	34833.40	35388.70	623235.73	631210.68	705996.93	735785.54	17	205	2015
1126.00	35515.20	36041.90	623425.68	631429.97	705992.87	735835.89	17	205	2015
1127.01	41676.60	42222.20	623626.80	631629.25	705995.29	735891.49	94	295	2015
1128.00	36895.50	37403.90	623814.42	631841.89	705994.92	735939.57	17	205	2015
1129.00	37586.80	38156.10	624011.54	632008.22	705994.70	735994.92	17	205	2015
1130.00	38310.90	38840.00	624204.08	632259.84	705992.28	736044.84	17	205	2015
1131.00	38998.50	39583.00	624398.90	632744.91	704901.29	736100.52	17	205	2015
1132.00	39719.30	40259.50	624584.00	632939.26	704951.68	736147.14	17	205	2015
1133.00	40496.80	41084.10	624780.23	633146.64	705004.60	736203.70	17	205	2015
1134.00	41208.90	41754.20	624971.77	633328.16	705053.88	736253.13	17	205	2015
1135.00	41895.60	42460.20	625158.36	633521.05	705107.10	736306.53	17	205	2015
1136.00	30622.50	31172.40	625359.09	633719.41	705159.14	736355.73	18	206	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1137.00	31326.90	31898.40	625557.75	633911.60	705212.57	736407.06	18	206	2015
1138.00	32018.90	32571.10	625747.84	634106.05	705263.26	736460.21	18	206	2015
1139.00	32717.10	33302.40	625940.67	634296.07	705312.52	736509.32	18	206	2015
1140.00	33475.30	34057.00	626128.64	634484.36	705366.11	736561.39	18	206	2015
1141.00	34203.00	34778.20	626326.96	634686.11	705416.60	736616.73	18	206	2015
1142.00	34900.50	35458.50	626521.38	634876.38	705468.96	736665.22	18	206	2015
1143.00	35603.80	36178.60	626711.10	635071.96	705522.04	736720.17	18	206	2015
1144.00	36314.10	36866.30	626904.96	635263.51	705573.07	736771.57	18	206	2015
1145.00	37024.60	37584.30	627097.00	635458.87	705624.56	736821.29	18	206	2015
1146.00	37714.50	38264.70	627289.90	635651.81	705675.28	736875.60	18	206	2015
1147.00	38414.30	38986.30	627481.98	635845.17	705726.29	736928.22	18	206	2015
1148.00	39201.30	39612.10	629748.26	636042.09	705782.35	729249.72	18	206	2015
1149.00	39737.10	40153.70	629940.64	636233.03	705832.60	729302.54	18	206	2015
1150.00	55034.70	55450.70	630130.58	636365.30	705884.19	729352.79	18	206	2015
1151.00	55563.80	55973.40	630328.34	636613.37	705937.31	729404.04	18	206	2015
1152.00	56128.40	56552.90	630520.94	636811.63	705989.45	729457.65	18	206	2015
1153.00	56661.80	57075.00	630711.08	637011.96	705995.56	729507.70	18	206	2015
1154.00	30472.10	30873.20	630912.64	637219.63	705997.26	729558.89	19	209	2015
1155.00	31035.30	31474.70	631099.05	637435.33	705994.45	729613.99	19	209	2015
1156.00	31621.80	32029.70	631291.71	637638.08	705995.42	729665.51	19	209	2015
1157.00	32185.20	32611.10	631487.54	637841.23	705995.58	729714.68	19	209	2015
1158.00	32761.40	33161.00	631675.22	638052.83	705992.53	729767.46	19	209	2015
1159.00	33307.40	33744.80	631858.56	638266.56	705992.04	729817.71	19	209	2015
1160.00	33888.80	34302.80	632062.46	638466.25	705995.46	729871.76	19	209	2015
1161.00	34452.00	34884.60	632262.90	638675.11	705996.84	729921.57	19	209	2015
1162.00	30432.50	30839.10	632451.69	638879.61	705993.69	729975.64	21	210	2015
1163.01	33931.70	34355.00	632655.26	639092.23	705992.12	730027.10	75	280	2015
1164.00	31586.40	31993.70	632838.61	639292.32	705995.73	730077.84	21	210	2015
1165.01	33375.80	33816.40	633035.28	639507.76	705995.72	730130.20	75	280	2015
1166.00	32723.70	33130.30	633225.55	639707.07	705993.44	730182.15	21	210	2015
1167.00	33265.90	33720.80	633414.53	639910.79	705992.09	730235.02	21	210	2015
1168.00	33849.40	34275.70	633610.68	640417.80	704882.20	730285.58	21	210	2015
1169.00	45566.30	46011.20	633806.63	640614.06	704934.07	730336.85	18	206	2015
1170.00	46158.30	46616.90	633996.47	640802.01	704984.96	730386.90	18	206	2015
1171.00	46745.00	47202.80	634192.79	641001.36	705036.39	730441.97	18	206	2015
1172.00	47308.40	47759.60	634379.61	641189.67	705091.27	730490.76	18	206	2015
1173.00	47905.40	48349.50	634576.06	641388.01	705141.81	730541.52	18	206	2015
1174.00	48486.80	48952.70	634771.07	641572.76	705193.14	730596.70	18	206	2015
1175.00	49082.90	49536.90	634976.12	641770.83	705245.09	730646.94	18	206	2015
1176.00	49651.50	50116.20	635153.41	641963.80	705298.10	730700.97	18	206	2015
1177.00	50261.10	50725.20	635355.43	642161.76	705349.45	730749.65	18	206	2015
1178.00	50856.80	51314.90	635546.32	642356.78	705398.24	730803.39	18	206	2015
1179.00	51442.50	51898.00	635724.45	642541.45	705451.27	730852.91	18	206	2015
1180.00	52039.90	52501.30	635931.22	642740.60	705502.10	730904.43	18	206	2015
1181.00	52676.40	53126.70	636130.83	642924.48	705555.05	730959.54	18	206	2015
1182.00	53258.80	53716.30	636318.48	643119.99	705610.53	731010.23	18	206	2015
1183.00	53827.40	54274.90	636503.56	643318.10	705658.67	731063.65	18	206	2015
1184.00	54408.90	54860.80	636703.90	643511.55	705709.68	731113.05	18	206	2015
1185.00	34399.80	34853.00	636896.79	643702.96	705765.42	731166.86	21	210	2015
1186.00	34989.90	35410.00	637086.23	643898.11	705816.11	731217.12	21	210	2015
1187.00	35566.40	36018.40	637281.76	644089.73	705865.14	731266.39	21	210	2015
1188.00	50088.20	50618.10	637471.78	644282.20	705917.76	731322.24	65	270	2015
1189.00	50755.60	51162.30	637671.02	644476.55	705968.76	731372.47	65	270	2015
1190.00	51336.30	51813.30	637866.17	644680.28	705996.92	731422.94	65	270	2015
1191.00	51934.30	52351.20	638056.93	644885.00	705995.57	731474.38	65	270	2015
1192.00	52496.30	53019.30	638254.68	645088.20	705993.03	731525.53	65	270	2015
1193.00	53136.90	53563.50	638444.33	645295.37	705995.44	731575.78	65	270	2015
1194.00	36150.40	36585.40	638633.01	645503.80	705994.53	731629.15	21	210	2015
1195.00	36760.70	37215.30	638824.80	645702.54	705994.85	731682.48	21	210	2015
1196.00	37342.50	37776.80	639006.63	645914.95	705992.89	731731.94	21	210	2015
1197.00	37915.30	38380.50	639213.01	646124.12	705994.97	731784.86	21	210	2015
1198.00	38521.40	38958.50	639405.65	646330.43	705992.69	731835.47	21	210	2015
1199.00	39124.10	39597.50	639599.24	646536.72	705996.51	731889.17	21	210	2015
1200.00	39742.20	40187.50	639785.80	646743.63	705994.82	731940.27	21	210	2015
1201.00	40323.40	40799.80	639982.59	646951.23	705991.62	731994.23	21	210	2015
1202.00	41060.70	41384.00	642257.05	647160.01	705994.81	724828.18	21	210	2015
1202.01	40934.70	41038.90	640178.91	641955.35	726082.96	732042.59	21	210	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1203.00	41546.60	42010.00	640379.59	647364.94	705993.95	732095.79	21	210	2015
1204.00	49031.90	49468.60	640566.71	647575.07	705993.82	732144.78	21	210	2015
1205.00	49624.10	50080.50	640762.96	647783.56	705997.01	732202.24	21	210	2015
1206.00	50201.70	50665.30	640956.51	648279.44	704921.89	732253.34	21	210	2015
1207.00	50814.60	51297.40	641148.35	648471.12	704967.62	732303.07	21	210	2015
1208.00	51433.20	51897.20	641327.37	648668.40	705021.18	732352.47	21	210	2015
1209.00	52051.20	52563.00	641525.95	648854.09	705075.20	732405.10	21	210	2015
1210.00	52674.90	53148.00	641727.39	649051.40	705123.85	732455.29	21	210	2015
1211.00	53265.80	53762.60	641919.12	649243.16	705175.68	732512.12	21	210	2015
1212.00	53905.20	54361.10	642111.38	649437.73	705228.38	732563.54	21	210	2015
1213.00	30735.60	31214.50	642304.95	649631.17	705278.99	732616.14	23	211	2015
1214.00	31317.30	31792.60	642490.17	649822.52	705330.43	732664.75	23	211	2015
1215.00	31963.20	32464.70	642690.76	650016.75	705386.83	732717.95	23	211	2015
1216.00	32687.90	33158.30	642885.87	650212.00	705438.01	732766.53	23	211	2015
1217.00	33280.40	33774.40	643071.89	650396.14	705489.25	732822.44	23	211	2015
1218.00	33883.80	34354.20	643267.85	650598.77	705538.43	732874.20	23	211	2015
1219.00	34526.50	35029.10	643465.65	650787.69	705595.00	732921.34	23	211	2015
1220.00	35155.10	35617.10	643662.48	650984.08	705641.67	732977.90	23	211	2015
1221.00	35739.50	36224.90	643848.61	651174.67	705695.92	733027.60	23	211	2015
1222.00	36391.50	36867.10	644045.19	651368.98	705744.42	733080.46	23	211	2015
1223.00	37011.50	37525.40	644242.94	651562.79	705800.02	733131.20	23	211	2015
1224.00	37659.60	38124.70	644442.03	651759.49	705847.88	733184.52	23	211	2015
1225.00	38236.80	38733.10	644623.97	651947.08	705901.77	733235.28	23	211	2015
1226.00	38829.10	39291.00	644810.51	652140.63	705953.38	733285.48	23	211	2015
1227.00	39454.60	39959.20	645014.61	652338.53	705993.63	733339.83	23	211	2015
1228.00	40183.60	40645.00	645201.65	652527.25	705992.59	733390.42	23	211	2015
1229.00	40808.50	41314.00	645398.15	652749.72	705995.09	733444.58	23	211	2015
1230.00	41554.10	42039.50	645595.16	652966.17	705995.87	733492.83	23	211	2015
1231.00	42159.40	42651.80	645785.72	653167.66	705992.15	733544.17	23	211	2015
1232.00	48129.50	48609.80	645980.33	653373.54	705995.28	733599.56	23	211	2015
1233.00	48752.40	49238.60	646170.09	653575.22	705991.66	733651.11	23	211	2015
1234.00	49377.60	49872.70	646364.51	653784.60	705994.44	733700.40	23	211	2015
1235.01	32564.80	33033.30	646556.05	653998.51	705993.15	733750.43	75	280	2015
1236.01	35178.10	35704.70	646747.54	654201.36	705994.12	733804.05	98	301	2015
1237.00	30598.80	31079.10	646940.67	654407.58	705992.94	733853.66	25	212	2015
1238.00	31236.70	31755.50	647135.66	654619.45	705994.99	733907.94	25	212	2015
1239.00	31904.60	32362.90	647330.45	654819.10	705996.30	733961.72	25	212	2015
1240.00	32500.10	33055.50	647523.91	655031.29	705992.74	734013.22	25	212	2015
1241.00	33161.20	33629.90	647716.20	655238.35	705994.55	734059.84	25	212	2015
1242.00	33800.60	34327.60	647914.59	655442.08	705994.00	734113.27	25	212	2015
1243.00	34471.40	34960.30	648096.49	655944.58	704899.30	734168.23	25	212	2015
1244.00	35091.30	35676.10	648287.41	656136.49	704954.53	734217.57	25	212	2015
1245.00	35780.30	36275.00	648493.76	656327.66	705007.88	734267.89	25	212	2015
1246.00	36445.70	37000.20	648684.87	656522.58	705056.86	734323.72	25	212	2015
1247.00	37145.70	37629.40	648881.17	656718.53	705107.94	734370.68	25	212	2015
1248.00	37758.00	38337.50	649067.99	656907.66	705158.51	734426.57	25	212	2015
1249.00	52114.10	52607.30	649267.29	657110.92	705210.38	734474.29	30	221	2015
1250.00	51495.20	52023.00	649454.49	657292.94	705266.55	734528.58	30	221	2015
1251.00	50891.00	51381.50	649654.86	657488.27	705316.43	734580.98	30	221	2015
1252.00	50114.70	50767.50	648289.53	657684.21	705367.40	740428.49	30	221	2015
1253.00	49419.60	49985.00	648484.72	657876.18	705420.33	740482.36	30	221	2015
1254.00	48668.70	49316.60	648674.35	658070.61	705470.43	740532.01	30	221	2015
1255.00	47971.50	48561.50	648870.81	658267.99	705523.88	740583.67	30	221	2015
1256.00	47184.40	47841.90	649066.07	658458.70	705572.33	740635.14	30	221	2015
1257.00	46422.30	47009.30	649251.23	658653.41	705628.22	740687.06	30	221	2015
1258.00	45695.50	46325.50	649454.78	658849.97	705680.08	740738.11	30	221	2015
1259.00	44984.90	45579.40	649641.76	659029.98	705729.18	740791.20	30	221	2015
1260.00	44199.60	44864.40	649836.59	659221.24	705781.12	740840.98	30	221	2015
1261.00	43474.20	44057.70	650029.17	659424.27	705831.29	740893.59	30	221	2015
1262.00	42732.90	43366.90	650217.97	659615.39	705887.83	740948.55	30	221	2015
1263.00	41968.80	42570.30	650417.14	659806.03	705938.18	741000.87	30	221	2015
1264.00	41158.90	41830.40	650607.88	659998.09	705990.51	741050.91	30	221	2015
1265.00	40381.50	40995.10	650795.54	660232.47	705993.24	741102.89	30	221	2015
1266.00	39616.50	40258.60	650998.48	660404.98	705992.03	741153.15	30	221	2015
1267.00	41946.10	42576.60	651188.22	660621.16	705995.61	741203.30	28	219	2015
1268.00	41204.30	41821.50	651369.49	660831.10	705996.08	741256.27	28	219	2015
1269.00	40439.40	41087.30	651572.19	661035.60	705993.42	741310.64	28	219	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1270.00	39676.30	40303.20	651768.21	661245.87	705995.99	741359.60	28	219	2015
1271.00	38914.80	39544.30	651961.41	661457.81	705996.23	741414.30	28	219	2015
1272.00	38192.70	38810.50	652154.93	661660.83	705995.10	741462.90	28	219	2015
1273.00	37456.00	38084.30	652342.52	661867.08	705996.32	741516.88	28	219	2015
1274.00	36711.70	37333.00	652540.03	662068.36	705992.81	741565.32	28	219	2015
1275.00	28888.40	29515.70	652726.58	662279.71	705993.96	741616.41	33	223	2015
1276.00	29603.40	30211.10	652919.48	662483.05	705994.92	741670.92	33	223	2015
1277.00	30335.40	30991.20	653117.44	662687.88	705994.06	741722.35	33	223	2015
1278.00	31104.40	31724.00	653308.22	662903.30	705993.05	741775.89	33	223	2015
1279.00	31829.80	32467.40	653511.89	663101.35	705994.59	741827.74	33	223	2015
1280.00	32551.30	33172.40	653691.50	663604.45	704885.49	741876.13	33	223	2015
1281.00	33313.30	34001.80	653888.86	663806.67	704935.38	741928.08	33	223	2015
1282.00	34121.80	34746.80	654083.13	663994.39	704991.46	741980.96	33	223	2015
1283.00	34851.00	35504.30	654279.87	664186.49	705039.59	742030.71	33	223	2015
1284.00	35602.80	36237.60	654464.39	664385.55	705092.12	742086.94	33	223	2015
1285.00	36365.80	37033.00	654661.88	664577.28	705142.05	742134.28	33	223	2015
1286.00	37153.60	37789.70	654850.65	664771.23	705193.65	742186.54	33	223	2015
1287.00	37885.40	38523.40	655041.92	664953.43	705249.02	742239.37	33	223	2015
1288.00	38609.20	39231.90	655238.17	665152.67	705299.35	742290.23	33	223	2015
1289.00	39357.60	39998.90	655432.23	665347.30	705349.54	742341.71	33	223	2015
1290.00	40101.00	40713.40	655630.18	665546.35	705401.07	742393.25	33	223	2015
1291.00	40807.40	41472.60	655823.91	665736.15	705456.33	742450.14	33	223	2015
1292.00	66815.70	67541.00	656008.04	665925.48	705506.89	742499.97	30	221	2015
1293.00	66085.50	66704.90	656210.77	666121.21	705556.87	742548.94	30	221	2015
1294.00	65284.10	65977.10	656396.48	666323.66	705608.35	742605.04	30	221	2015
1295.00	64546.70	65164.40	656596.10	666511.03	705661.64	742653.35	30	221	2015
1296.00	63743.90	64445.50	656775.78	666705.91	705715.43	742707.34	30	221	2015
1297.00	62995.90	63594.70	657164.93	666888.06	705767.29	742756.00	30	221	2015
1298.00	62209.50	62880.40	657189.07	667087.13	705819.82	742808.57	30	221	2015
1299.00	61496.50	62094.60	657369.56	667280.77	705870.53	742862.15	30	221	2015
1300.00	60675.20	61360.90	657562.19	667469.78	705919.40	742911.95	30	221	2015
1301.00	59925.10	60536.50	657759.12	667672.43	705971.38	742962.10	30	221	2015
1302.00	59128.30	59794.60	657950.70	667878.16	705992.81	743015.22	30	221	2015
1303.00	58402.80	59020.00	658145.59	668077.50	705993.42	743069.20	30	221	2015
1304.00	57546.10	58275.90	658337.96	668288.41	705991.58	743121.61	30	221	2015
1305.00	56780.50	57400.30	658527.20	668493.30	705995.92	743172.17	30	221	2015
1306.00	47534.60	48177.90	658721.51	668698.47	705991.46	743220.45	33	223	2015
1307.00	48311.60	48987.30	658917.73	668910.02	705992.60	743276.61	33	223	2015
1308.00	49074.10	49708.40	659100.15	669113.24	705991.87	743325.66	33	223	2015
1309.00	49805.70	50468.10	659293.49	669315.13	705996.85	743376.46	33	223	2015
1310.00	50563.10	51201.10	659481.71	669524.15	705996.03	743432.43	33	223	2015
1311.00	51317.30	51996.40	659689.61	669737.54	705992.85	743480.22	33	223	2015
1312.00	52092.20	52744.80	659871.13	669936.85	705991.47	743536.29	33	223	2015
1313.00	52860.90	53520.50	660073.05	670137.79	705991.96	743585.16	33	223	2015
1314.00	53622.30	54277.50	660276.10	670354.24	705993.14	743636.33	33	223	2015
1315.00	54405.40	55088.70	660469.70	670554.04	705991.55	743690.92	33	223	2015
1316.00	55183.50	55818.40	660636.46	670772.74	705996.00	743743.19	33	223	2015
1317.00	55916.00	56578.70	660843.98	670981.71	705991.68	743792.49	33	223	2015
1318.00	56721.50	57370.80	661042.68	671466.32	704920.36	743846.81	33	223	2015
1319.00	57501.20	58186.10	661237.88	671664.52	704975.10	743894.78	33	223	2015
1320.00	58300.40	58956.20	661430.07	671856.73	705024.33	743948.50	33	223	2015
1321.00	59070.30	59758.40	661618.69	672043.90	705077.22	743997.96	33	223	2015
1322.00	31188.40	31520.00	667217.59	672242.95	705129.05	723248.56	27	218	2015
1322.01	30814.10	31164.80	661818.00	666966.51	724464.04	744053.38	27	218	2015
1323.00	31655.40	32362.00	662012.90	672434.25	705177.19	744100.95	27	218	2015
1324.00	32555.00	33241.20	662199.38	672629.58	705234.57	744154.34	27	218	2015
1325.00	33413.00	34116.90	662394.05	672820.42	705285.61	744207.02	27	218	2015
1326.00	34259.70	34945.30	662588.54	673018.93	705334.85	744261.30	27	218	2015
1327.00	35059.20	35781.00	662778.37	673209.28	705386.50	744311.05	27	218	2015
1328.00	35936.80	36608.80	662976.19	673404.61	705436.68	744359.99	27	218	2015
1329.00	36777.10	37463.00	663166.14	673599.06	705488.57	744411.23	27	218	2015
1330.00	37578.90	38261.10	663357.24	673790.46	705544.21	744466.06	27	218	2015
1331.00	38374.70	39084.90	663552.03	673980.00	705594.67	744520.24	27	218	2015
1332.00	39258.90	39938.30	663746.93	674174.57	705648.26	744567.91	27	218	2015
1333.00	40085.50	40787.80	663941.57	674364.73	705700.41	744618.49	27	218	2015
1334.00	29904.30	30582.90	664134.43	674554.71	705747.27	744670.69	28	219	2015
1335.00	30712.20	31412.70	664318.42	674749.87	705800.25	744724.72	28	219	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1336.00	31544.80	32215.30	664511.77	674945.36	705854.53	744776.42	28	219	2015
1337.00	32370.50	33104.00	664706.80	675136.36	705902.77	744826.29	28	219	2015
1338.00	33231.50	33911.60	664898.09	675336.76	705958.38	744880.42	28	219	2015
1339.00	34050.40	34745.00	665096.94	675529.12	705996.40	744931.64	28	219	2015
1340.00	34880.00	35559.30	665280.62	675737.22	705994.20	744984.97	28	219	2015
1341.00	35708.80	36421.60	665486.19	675942.54	705993.83	745037.60	28	219	2015
1342.00	44705.00	45409.20	665677.43	676151.44	705991.61	745087.92	49	249	2015
1343.00	45561.10	46313.40	665870.85	676357.67	705991.83	745137.22	49	249	2015
1344.00	46631.90	47319.50	666063.06	676564.24	705994.45	745193.13	49	249	2015
1345.00	47462.80	48218.30	666260.98	676760.24	705992.81	745241.76	49	249	2015
1346.00	48322.80	49002.30	666446.23	676979.08	705993.66	745293.27	49	249	2015
1347.00	49155.90	49879.00	666641.07	677184.05	705996.30	745343.85	49	249	2015
1348.00	49999.30	50688.80	666838.92	677398.05	705994.81	745395.28	49	249	2015
1349.00	50859.60	51593.90	667018.19	677588.35	705992.75	745448.38	49	249	2015
1350.00	51701.80	52382.20	667224.67	677807.56	705991.39	745501.99	49	249	2015
1351.00	52540.20	53292.40	667413.09	678012.34	705995.13	745551.25	49	249	2015
1352.00	53421.70	54108.70	667604.89	678221.72	705991.91	745605.97	49	249	2015
1353.00	54258.60	54993.10	667796.94	678416.16	705995.20	745657.29	49	249	2015
1354.00	55115.40	55787.60	668000.89	678634.86	705997.54	745708.83	49	249	2015
1355.00	55952.20	56928.40	664560.39	679133.67	704904.84	759284.05	49	249	2015
1356.00	54218.60	55221.90	664760.07	679322.24	704958.11	759337.46	52	252	2015
1357.00	55328.20	56248.10	664953.58	679522.95	705007.02	759385.35	52	252	2015
1358.00	56409.90	57357.90	665141.83	679717.53	705061.01	759436.71	52	252	2015
1358.10	44572.20	44727.60	660361.17	662637.12	768814.72	777310.25	43	244	2015
1359.00	57490.00	58420.00	665335.24	679907.00	705114.27	759492.60	52	252	2015
1359.10	44861.40	44999.60	660560.09	662832.72	768869.08	777358.96	43	244	2015
1360.00	58586.70	59572.40	665539.50	680102.78	705161.34	759544.24	52	252	2015
1360.10	45120.10	45279.80	660752.81	663018.61	768916.28	777415.06	43	244	2015
1361.00	59703.80	60624.00	665725.01	680293.68	705217.28	759592.84	52	252	2015
1361.10	34051.60	34214.00	660941.36	663217.09	768969.39	777466.51	44	245	2015
1362.00	60780.20	61757.30	665925.01	680487.21	705267.39	759647.44	52	252	2015
1362.10	34348.10	34491.00	661124.94	663399.94	769020.13	777519.34	44	245	2015
1363.00	61881.00	62812.80	666124.66	680673.06	705319.30	759698.34	52	252	2015
1363.10	34624.70	34779.70	661322.76	663595.42	769073.19	777568.26	44	245	2015
1364.01	45929.80	46879.40	666291.42	680882.28	705369.39	759750.51	71	273	2015
1364.10	34923.60	35067.70	661514.32	663794.29	769126.00	777619.87	44	245	2015
1365.00	47017.10	47984.30	666499.67	681069.75	705422.78	759801.69	71	273	2015
1365.10	35239.80	35388.50	661706.11	663983.86	769178.45	777674.08	44	245	2015
1366.00	48121.30	49061.40	666686.25	681262.05	705471.00	759855.48	71	273	2015
1366.10	35553.20	35689.20	661902.96	664180.07	769226.89	777724.92	44	245	2015
1367.00	49204.50	50152.20	666886.50	681454.21	705523.82	759906.18	71	273	2015
1367.10	35841.10	35990.70	662094.26	664369.79	769282.64	777772.64	44	245	2015
1368.00	50298.60	51249.70	667087.36	681643.97	705576.38	759958.06	71	273	2015
1368.10	36140.80	36283.90	662287.94	664565.49	769330.79	777825.42	44	245	2015
1369.00	58214.40	59175.10	667275.01	681834.98	705632.42	760009.43	71	273	2015
1369.10	36409.10	36571.30	662489.14	664758.35	769382.49	777879.70	44	245	2015
1370.00	60529.60	61474.50	667471.44	682037.20	705682.00	760059.18	41	236	2015
1370.10	36701.80	36843.70	662671.37	664955.92	769434.52	777930.04	44	245	2015
1371.00	59473.90	60409.80	667655.69	682225.96	705734.78	760110.70	41	236	2015
1371.10	36989.80	37144.50	662872.78	665144.81	769488.67	777985.11	44	245	2015
1372.00	58356.30	59313.50	667854.94	682417.10	705786.31	760161.71	41	236	2015
1372.10	37285.20	37426.70	663055.65	665332.35	769539.54	778037.75	44	245	2015
1373.00	56756.90	58021.60	663261.34	682612.04	705837.20	778083.96	41	236	2015
1374.00	30994.40	32378.30	663450.27	682804.98	705888.41	778141.01	29	220	2015
1375.00	32515.70	33739.40	663647.29	683000.35	705942.19	778189.44	29	220	2015
1376.00	33864.40	35224.70	663836.29	683194.56	705991.19	778244.59	29	220	2015
1377.00	55301.90	56581.40	664023.54	683404.00	705991.86	778295.56	41	236	2015
1378.00	53895.40	55156.40	664224.64	683605.34	705993.05	778342.64	41	236	2015
1379.00	52443.50	53731.90	664417.03	683808.01	705996.32	778396.54	41	236	2015
1380.00	51008.30	52282.80	664608.91	684018.19	705993.29	778449.95	41	236	2015
1381.00	49550.90	50850.70	664802.55	684225.31	705992.60	778500.63	41	236	2015
1382.00	41378.00	42659.90	664996.37	684434.75	705993.97	778549.51	41	236	2015
1383.00	39909.50	41161.30	665196.48	684641.77	705993.38	778604.20	41	236	2015
1384.00	38331.40	39609.60	665380.09	684853.39	705993.03	778652.92	35	224	2015
1385.00	39785.50	41052.20	665573.06	685055.01	705992.91	778705.12	35	224	2015
1386.00	41202.90	42472.50	665759.64	685255.72	705991.71	778758.80	35	224	2015
1387.00	42622.90	43874.70	665960.98	685465.31	705995.89	778808.97	35	224	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1388.00	35484.70	35639.40	683387.05	685673.64	705996.58	714529.67	35	224	2015
1388.01	31549.30	32654.40	666150.59	683416.79	714432.25	778864.71	41	236	2015
1389.00	35944.20	36101.50	683583.00	685878.54	705994.82	714581.44	35	224	2015
1389.01	33160.50	34282.00	666351.41	683606.45	714492.20	778913.39	41	236	2015
1390.00	36432.80	36593.60	683775.49	686069.77	705994.85	714629.26	35	224	2015
1390.01	34440.90	35557.20	666541.45	683800.62	714538.10	778963.62	41	236	2015
1391.00	36905.20	37064.40	683972.19	686293.92	705996.92	714677.61	35	224	2015
1391.01	35833.90	36975.20	666732.07	683996.79	714584.36	779019.55	41	236	2015
1392.00	37386.50	37559.70	684163.25	686795.39	704887.38	714730.55	35	224	2015
1392.01	37101.30	38213.70	666930.68	684185.22	714634.93	779068.06	41	236	2015
1393.00	37874.00	38040.70	684354.03	686993.05	704939.83	714784.39	35	224	2015
1393.01	38485.10	39633.30	667117.59	684383.01	714690.08	779123.44	41	236	2015
1394.00	43978.10	45271.80	667308.03	687179.93	704993.93	779174.16	35	224	2015
1395.00	52017.90	53332.00	667506.85	687383.33	705042.80	779222.67	35	224	2015
1396.00	53483.70	54822.90	667699.48	687572.49	705095.76	779279.37	35	224	2015
1397.00	54955.60	56258.60	667895.85	687760.65	705148.04	779325.11	35	224	2015
1398.00	56436.40	57752.90	668091.83	687960.71	705200.85	779378.16	35	224	2015
1399.00	57886.50	59174.90	668274.93	688144.30	705249.10	779433.29	35	224	2015
1400.00	59355.20	60653.80	668475.39	688346.64	705300.58	779484.68	35	224	2015
1401.00	60785.50	62076.70	668668.50	688539.69	705352.29	779533.47	35	224	2015
1402.00	62232.10	63580.20	668859.38	688732.86	705406.10	779586.29	35	224	2015
1403.00	33620.10	34915.50	669054.52	688929.72	705458.86	779636.65	37	225	2015
1404.00	33926.90	35257.50	669248.71	689120.78	705511.60	779690.62	35	224	2015
1405.00	32435.10	33776.60	669435.96	689308.53	705563.68	779742.09	35	224	2015
1406.00	52818.60	54134.80	669635.59	689504.23	705612.15	779791.69	32	222	2015
1407.00	32192.60	33529.00	669825.58	689699.97	705663.93	779845.72	37	225	2015
1408.00	30760.70	32041.50	670013.07	689890.65	705718.07	779899.79	37	225	2015
1409.00	34986.30	36300.70	670211.36	690087.49	705769.33	779946.81	37	225	2015
1410.00	36410.10	37686.30	670400.15	690281.43	705820.63	780001.06	37	225	2015
1411.00	37825.20	39142.50	670596.41	690478.05	705870.59	780052.70	37	225	2015
1412.00	39262.10	40546.40	670784.46	690667.87	705920.74	780104.06	37	225	2015
1413.00	40678.70	41988.60	670986.03	690850.85	705974.80	780156.73	37	225	2015
1414.00	45498.10	46744.80	671250.84	691065.04	705994.31	780206.50	43	244	2015
1415.00	37861.80	39107.50	671364.53	691258.47	705994.51	780258.92	44	245	2015
1416.00	39257.80	40605.90	671557.49	691467.87	705993.18	780311.11	44	245	2015
1417.00	40742.40	42031.70	671756.38	691676.30	705993.77	780364.41	44	245	2015
1418.00	42154.40	43543.90	671949.64	691879.24	705994.94	780416.70	44	245	2015
1419.00	43668.00	44864.70	672142.74	692095.98	705995.61	780464.19	44	245	2015
1420.00	32619.50	33977.10	672337.02	692303.87	705993.21	780517.66	40	234	2015
1421.00	34087.00	34681.90	683492.95	692508.80	705994.25	740229.42	40	234	2015
1421.01	34695.10	35383.80	672529.38	683323.66	740980.52	780569.36	40	234	2015
1422.00	35554.10	36533.20	672724.16	686878.69	727779.98	780622.63	40	234	2015
1422.01	43256.20	43654.40	686854.52	692718.45	705996.22	727874.93	40	234	2015
1423.00	36764.10	37683.60	672912.32	687065.07	727840.88	780675.08	40	234	2015
1423.01	42634.50	43000.40	687045.13	692919.56	705994.82	727938.27	40	234	2015
1424.00	37863.60	39202.50	673103.37	693135.06	705993.31	780726.20	40	234	2015
1425.00	39325.80	40779.90	670715.20	693332.03	705997.16	790434.80	40	234	2015
1426.00	40944.20	42441.60	670911.11	693546.78	705991.66	790489.85	40	234	2015
1427.00	51640.90	53198.70	671099.64	693709.21	705992.29	790539.80	44	245	2015
1428.00	53321.00	54262.60	671292.29	685857.47	735812.98	790591.09	44	245	2015
1428.01	54287.30	54786.10	686191.11	693959.46	705994.30	734307.21	44	245	2015
1429.00	54929.10	56462.20	671488.65	694166.26	705992.51	790642.53	44	245	2015
1430.00	56580.90	58051.90	671681.18	694661.31	704925.18	790692.73	44	245	2015
1431.00	58173.40	59672.40	671878.30	694856.51	704973.76	790748.76	44	245	2015
1432.00	59802.80	61253.10	672071.65	695054.96	705025.60	790799.94	44	245	2015
1433.00	61373.30	62877.80	672260.11	695240.72	705078.71	790851.79	44	245	2015
1434.00	63003.70	63844.20	672452.29	686095.77	739965.04	790905.19	44	245	2015
1434.01	43108.20	43768.60	686073.77	695425.24	705129.14	740057.76	46	247	2015
1435.00	49552.40	50128.70	686767.76	695624.51	705182.66	738238.91	46	247	2015
1435.01	33210.00	34099.60	672648.84	686792.61	738149.15	790955.62	48	248	2015
1436.00	31533.10	33099.80	672842.87	695813.48	705236.83	791005.80	48	248	2015
1437.00	29925.70	31381.70	673030.07	696011.26	705283.68	791060.36	48	248	2015
1438.00	34586.30	35806.90	673224.99	693074.38	717018.87	791109.12	46	247	2015
1438.01	42822.40	43008.50	693045.15	696215.82	705336.83	717116.99	46	247	2015
1439.00	36037.00	37465.10	673416.98	693265.72	717077.20	791163.82	46	247	2015
1439.01	42445.50	42661.60	693238.83	696402.37	705388.73	717171.18	46	247	2015
1440.00	37580.80	39024.80	673612.51	696599.07	705437.99	791213.18	46	247	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1441.00	39118.10	40786.40	673802.01	696786.06	705492.78	791268.21	46	247	2015
1442.00	40920.70	42336.10	674005.18	696981.10	705544.06	791313.35	46	247	2015
1443.00	50248.10	51954.30	674189.95	697172.02	705594.40	791366.16	46	247	2015
1444.00	52087.30	52978.60	674387.42	688022.38	740519.60	791418.68	46	247	2015
1444.01	53558.30	54178.90	687993.38	697364.96	705646.51	740612.92	46	247	2015
1445.00	54320.20	55989.90	674582.77	697552.57	705702.80	791469.93	46	247	2015
1446.00	56110.80	57550.40	674769.97	697749.68	705752.25	791524.40	46	247	2015
1447.00	57695.80	57926.30	694790.50	697939.63	705804.91	717586.24	46	247	2015
1447.01	58724.50	60174.30	674963.21	694815.50	717492.78	791574.98	46	247	2015
1448.00	60311.80	61742.40	675160.29	698140.22	705852.61	791628.61	46	247	2015
1449.00	61894.10	62728.20	686879.32	698325.91	705907.72	748639.62	46	247	2015
1449.01	44484.80	45214.80	675349.69	686920.79	748501.82	791675.85	57	265	2015
1450.00	30447.20	31918.30	675545.80	694874.22	719574.78	791731.29	55	263	2015
1450.01	39026.20	39296.30	694844.73	698521.33	705958.10	719668.70	55	263	2015
1451.00	32092.80	32507.30	688309.75	695073.16	719626.10	745460.06	55	263	2015
1451.01	38593.00	38810.90	695043.02	698705.90	705997.33	719723.64	55	263	2015
1451.02	32538.10	33275.60	675741.78	687906.99	747267.43	791785.14	55	263	2015
1452.00	33402.30	35108.90	675931.23	698927.30	705995.64	791836.27	55	263	2015
1453.00	35215.00	36627.50	676124.09	699138.59	705993.59	791887.96	55	263	2015
1454.00	36775.90	38478.00	676318.12	699336.35	705996.23	791937.53	55	263	2015
1455.00	39391.40	40833.90	676512.18	699541.14	705994.37	791989.60	55	263	2015
1456.00	40963.70	42657.40	676698.65	699754.28	705995.59	792042.78	55	263	2015
1457.00	42776.10	43220.00	692577.52	699963.25	705992.07	733554.86	55	263	2015
1457.01	62088.40	63052.40	676916.14	692605.66	733457.36	792089.12	57	265	2015
1458.00	51201.20	52113.60	677099.04	690208.68	743169.06	792143.75	57	265	2015
1458.01	36521.40	37154.50	690185.17	700167.32	705995.52	743268.11	90	290	2015
1459.00	52242.00	53697.90	677278.95	700367.52	705993.93	792199.62	57	265	2015
1460.00	53846.20	55473.70	677477.88	700581.03	705993.55	792249.52	57	265	2015
1461.00	55599.80	57022.60	677673.20	700777.28	705995.91	792298.58	57	265	2015
1462.00	57210.80	58765.90	677865.08	700993.06	705992.89	792352.28	57	265	2015
1463.00	58914.30	60342.00	678063.55	701198.54	705997.23	792404.79	57	265	2015
1464.00	33615.10	34433.00	678241.97	691368.68	743479.93	792453.98	57	265	2015
1464.01	34786.20	35378.70	691345.13	700686.88	708710.23	743576.68	57	265	2015
1464.02	51911.60	51950.40	700662.50	701396.68	705998.36	708805.38	68	271	2015
1465.00	35633.80	37243.20	678442.05	700874.77	708758.31	792507.56	57	265	2015
1465.01	52487.90	52525.80	700858.35	701612.44	705994.25	708850.35	68	271	2015
1466.00	37387.80	38213.00	678626.80	691755.48	743590.82	792558.57	57	265	2015
1466.01	38522.20	39117.10	691728.85	701072.67	708814.46	743681.51	57	265	2015
1466.02	47011.60	47056.00	701045.51	701823.59	705996.40	708910.64	87	288	2015
1467.00	39353.90	40940.90	678822.05	701257.02	708866.59	792609.62	57	265	2015
1467.01	46750.60	46830.40	701241.57	702323.36	704909.02	708956.61	87	288	2015
1468.00	41073.40	42563.30	679029.39	702513.99	704960.26	792660.20	57	265	2015
1469.00	42757.50	44392.60	679213.19	702705.32	705011.40	792715.42	57	265	2015
1470.00	60465.10	62004.90	679410.90	702900.26	705062.88	792763.54	57	265	2015
1471.00	32984.60	34617.60	679601.30	703095.48	705113.06	792818.66	73	277	2015
1472.00	34760.40	36275.80	679801.82	703288.55	705167.07	792867.24	73	277	2015
1473.00	36468.70	37920.20	679988.20	702429.34	709175.14	792920.92	73	277	2015
1473.02	54529.20	54588.30	702395.65	703484.69	705218.53	709269.12	100	304	2015
1474.00	38097.10	39538.70	680183.96	702608.15	709224.55	792972.97	73	277	2015
1474.03	55471.40	55549.40	702588.29	703675.91	705269.47	709320.63	100	304	2015
1475.00	39674.50	40881.90	680379.63	698669.03	724730.54	793025.91	73	277	2015
1475.02	54021.00	54370.60	698650.55	703871.57	705322.34	724825.01	100	304	2015
1476.00	41006.00	42181.20	680568.11	698854.93	724785.84	793079.06	73	277	2015
1476.02	55685.60	56016.40	698830.47	704058.98	705371.93	724881.89	100	304	2015
1477.00	42334.10	43805.50	680755.82	702675.18	711316.91	793127.62	73	277	2015
1477.02	55087.90	55179.20	702649.08	704249.18	705428.28	711410.28	100	304	2015
1478.00	43972.80	44731.60	690942.95	702868.88	711366.01	755895.15	73	277	2015
1478.01	51092.70	51738.40	680966.14	690970.21	755799.56	793177.06	73	277	2015
1478.02	41101.80	41190.90	702847.39	704436.06	705475.58	711459.42	96	298	2015
1479.00	51938.10	53447.10	681149.34	703586.66	709483.80	793231.49	73	277	2015
1479.01	40845.20	40918.70	703569.94	704639.34	705530.04	709583.05	96	298	2015
1480.00	53546.00	54951.90	681347.19	703249.01	711472.71	793283.30	73	277	2015
1480.01	40044.80	40127.70	703225.38	704829.02	705584.40	711563.95	96	298	2015
1481.00	55123.00	56382.20	681533.52	700348.38	723113.78	793333.18	73	277	2015
1481.01	39584.50	39916.00	700322.49	705032.96	705629.36	723207.75	96	298	2015
1482.00	56518.30	57757.60	681727.12	700535.58	723162.16	793387.56	73	277	2015
1482.01	38993.20	39249.00	700515.98	705220.18	705686.65	723255.05	96	298	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1483.00	57905.90	59148.20	681913.10	700213.42	725146.97	793441.54	73	277	2015
1483.01	38543.80	38892.50	700187.87	705421.37	705735.14	725244.14	96	298	2015
1484.00	59266.60	60460.80	682108.78	700407.96	725198.65	793494.69	73	277	2015
1484.01	38025.20	38301.30	700390.84	705647.47	705790.59	725290.60	96	298	2015
1485.00	60604.00	61766.10	682309.48	700601.16	725254.35	793549.67	73	277	2015
1485.01	37550.70	37919.10	700578.74	705803.67	705839.81	725346.18	96	298	2015
1486.00	61888.90	63073.00	682508.49	700790.33	725301.01	793598.07	73	277	2015
1486.01	36972.80	37275.30	700770.56	705990.26	705888.01	725396.40	96	298	2015
1487.00	44369.00	45925.60	682683.79	705135.76	709896.40	793653.10	81	283	2015
1487.01	36753.40	36834.80	705110.16	706188.94	705942.34	709989.77	96	298	2015
1488.00	46069.60	47541.30	682887.65	705328.38	709946.72	793705.24	81	283	2015
1488.01	36347.80	36406.30	705306.16	706376.17	705993.43	710045.44	96	298	2015
1489.00	47665.10	49121.80	683066.79	705007.82	711934.08	793763.02	81	283	2015
1489.01	36073.00	36198.50	704980.90	706589.50	705994.46	712025.76	96	298	2015
1490.00	49244.90	50645.80	683273.13	705176.10	711989.23	793813.41	81	283	2015
1490.01	35728.40	35812.20	705166.04	706796.18	705992.17	712077.78	96	298	2015
1491.00	50764.70	52201.90	683461.29	705394.73	712032.58	793865.77	81	283	2015
1491.01	35479.40	35607.70	705362.68	707008.52	705993.10	712129.13	96	298	2015
1492.00	52333.60	53778.60	683659.57	705576.76	712083.94	793918.98	81	283	2015
1492.01	35135.90	35224.10	705547.59	707206.92	705991.93	712178.76	96	298	2015
1493.00	30825.30	31632.30	683851.78	696447.53	746915.68	793974.77	64	269	2015
1493.01	55571.30	56160.50	696423.46	705771.79	712142.12	747010.43	81	283	2015
1493.02	46364.10	46470.10	705741.83	707416.27	705994.51	712237.75	87	288	2015
1494.00	53915.20	55397.00	684042.32	705966.63	712193.80	794025.49	81	283	2015
1494.01	46121.20	46235.20	705939.93	707632.20	705995.00	712286.88	87	288	2015
1495.00	34409.00	35367.00	685437.68	700979.77	731567.28	789612.54	82	284	2015
1495.01	35470.20	35705.80	702515.68	706142.31	712248.25	725857.32	82	284	2015
1495.02	45747.80	45848.90	706128.02	707832.69	705993.10	712342.36	87	288	2015
1495.03	50846.70	50927.20	684240.84	685453.81	789515.60	794075.00	89	289	2015
1495.04	37690.80	37790.40	700951.85	702534.77	725763.54	731666.28	90	290	2015
1496.00	35815.20	36042.80	702682.13	706351.28	712294.84	725930.80	82	284	2015
1496.01	36135.80	36931.00	688721.51	701178.42	731619.20	778072.54	82	284	2015
1496.02	45504.20	45621.40	706327.67	708038.30	705993.03	712387.27	87	288	2015
1496.03	50042.80	50330.40	684425.68	688749.34	777975.03	794132.80	89	289	2015
1496.04	35861.10	35964.70	701146.27	702729.47	725833.73	731716.16	90	290	2015
1497.00	37042.00	37836.60	689454.16	701352.74	731669.96	776186.99	82	284	2015
1497.01	37948.90	38304.50	702890.30	708240.93	705993.90	725970.49	82	284	2015
1497.02	49604.40	49928.50	684624.81	689454.30	776090.58	794182.30	89	289	2015
1497.03	35322.10	35421.80	701336.08	702919.60	725877.37	731765.31	90	290	2015
1498.00	38411.60	38733.10	703085.89	708452.89	705997.04	726011.05	82	284	2015
1498.01	38834.60	39625.40	689625.88	701555.87	731727.32	776236.58	82	284	2015
1498.02	49019.10	49339.20	684812.61	689657.47	776143.33	794237.56	89	289	2015
1498.03	34691.70	34805.20	701528.89	703109.20	725911.92	731821.61	90	290	2015
1499.00	34172.20	34386.00	703265.07	706914.85	712453.58	726072.55	64	269	2015
1499.01	39717.90	40493.80	689846.63	701749.36	731768.62	776302.38	82	284	2015
1499.02	40838.80	40950.80	706912.57	708654.74	705992.12	712548.52	82	284	2015
1499.03	48591.10	48905.20	684999.08	689845.05	776211.49	794290.23	89	289	2015
1499.04	33674.00	33769.50	701735.17	703318.41	725975.20	731862.03	90	290	2015
1500.00	31748.70	32514.10	685201.68	695739.53	755007.59	794345.38	64	269	2015
1500.01	32885.50	33329.20	695712.76	701946.38	731825.36	755102.68	64	269	2015
1500.02	33704.10	34005.20	703442.94	707633.23	710565.27	726126.37	64	269	2015
1500.03	41016.30	41097.00	707609.41	708857.30	705995.09	710657.32	82	284	2015
1500.04	33322.70	33425.50	701921.56	703502.25	726026.73	731916.72	90	290	2015
1501.00	41818.00	42078.00	705188.65	709074.70	705994.06	720476.72	48	248	2015
1501.10	38110.00	39022.30	685388.63	700096.53	739507.44	794396.55	85	286	2015
1502.00	38844.80	39068.50	705386.94	709277.10	705992.43	720524.15	87	288	2015
1502.10	39106.90	40084.50	685587.32	700290.00	739560.94	794450.56	85	286	2015
1503.00	39207.70	39465.90	705580.10	709491.15	705995.14	720577.56	87	288	2015
1503.10	40199.40	41144.40	685778.25	700481.51	739610.46	794500.57	85	286	2015
1504.00	39627.60	39896.50	705773.44	709989.04	704888.10	720629.56	87	288	2015
1504.10	41236.30	42209.80	685969.42	700680.40	739665.27	794554.08	85	286	2015
1505.00	40059.80	40323.50	705967.00	710185.82	704942.66	720682.05	87	288	2015
1505.10	42318.40	43251.80	686161.13	700865.66	739718.38	794609.18	85	286	2015
1506.00	40475.50	40728.10	706157.44	710378.96	704994.56	720733.90	87	288	2015
1506.10	43348.10	44327.40	686360.73	701054.96	739766.73	794664.27	85	286	2015
1507.00	40863.40	41151.50	706347.98	710575.62	705047.82	720785.53	87	288	2015
1507.10	44476.60	45426.80	686548.90	701243.65	739822.09	794716.93	85	286	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1508.00	41278.60	41562.50	706547.43	710764.57	705100.49	720838.15	87	288	2015
1508.10	61874.20	62565.20	686744.51	697279.11	755414.42	794765.97	62	268	2015
1508.11	45645.70	45933.60	697266.00	701429.16	739871.30	755506.81	85	286	2015
1509.00	41726.70	41987.40	706751.41	710959.31	705152.27	720885.60	87	288	2015
1509.10	62672.70	63448.40	686937.69	697996.17	753547.75	794819.46	62	268	2015
1509.11	46253.50	46487.00	697992.65	701640.96	739919.93	753538.90	85	286	2015
1510.00	42130.80	42391.50	706933.15	711149.10	705201.13	720937.46	87	288	2015
1510.10	60980.20	61729.10	687130.86	698190.89	753590.62	794872.44	62	268	2015
1510.11	36194.00	36389.20	698160.86	701832.40	739971.36	753687.96	94	295	2015
1511.00	42548.90	42844.30	707120.13	711350.71	705250.32	720991.85	87	288	2015
1511.10	60118.60	60826.40	687314.69	697868.50	755573.16	794929.65	62	268	2015
1511.11	36788.80	37009.50	697844.08	702028.88	740025.51	755664.61	94	295	2015
1512.00	42990.50	43280.20	707323.65	711535.25	705302.64	721041.81	87	288	2015
1512.10	59305.80	60030.40	687525.58	698573.69	753694.46	794940.88	62	268	2015
1512.11	35904.00	36103.80	698546.02	702226.95	740078.84	753789.06	94	295	2015
1513.00	50473.90	50723.50	707544.58	711725.74	705358.29	721092.92	37	225	2015
1513.10	58480.90	59174.50	687846.71	698240.90	755677.14	794508.19	62	268	2015
1513.11	35315.30	35493.60	698219.56	701377.62	743991.23	755774.45	94	295	2015
1514.00	50899.30	51164.70	707703.03	711916.04	705407.44	721145.11	37	225	2015
1514.10	57674.50	58358.10	688363.47	698440.72	755727.44	793387.37	62	268	2015
1514.11	34994.00	35180.90	698422.55	701572.14	744048.41	755822.20	94	295	2015
1515.00	51268.60	51513.00	707919.97	712118.39	705460.01	721196.78	37	225	2015
1515.10	56898.60	57540.30	688695.05	698114.67	757705.73	792872.43	62	268	2015
1515.11	34195.40	34410.50	698094.46	701764.06	744098.32	757804.32	94	295	2015
1516.00	51629.40	51891.90	708094.89	712315.11	705510.27	721247.54	37	225	2015
1516.10	56124.60	56807.80	688948.89	698829.13	755831.90	792731.53	62	268	2015
1516.11	33630.60	33827.40	698797.82	701891.51	744150.64	755924.25	94	295	2015
1517.00	52005.30	52256.40	708284.55	712513.37	705563.51	721300.49	37	225	2015
1517.10	55347.90	55993.90	689131.54	699021.36	755882.20	792782.66	62	268	2015
1517.11	53875.00	54061.50	698994.57	702081.07	744203.88	755975.59	93	293	2015
1518.00	52371.70	52635.30	708473.49	712692.81	705615.61	721352.55	37	225	2015
1518.10	54581.20	55202.70	689739.78	699212.55	755937.22	791319.50	62	268	2015
1518.11	53105.10	53293.20	699193.81	702460.63	744248.46	756034.00	93	293	2015
1519.00	52758.40	53009.20	708675.72	712897.24	705666.36	721403.43	37	225	2015
1519.10	53611.30	54440.30	690039.20	702537.38	744300.79	790956.54	62	268	2015
1520.00	53134.90	53410.80	708863.61	713082.86	705717.17	721458.21	37	225	2015
1520.10	50258.60	50804.90	690235.95	698565.71	759897.32	791008.37	62	268	2015
1520.11	53230.90	53515.00	698543.00	702734.88	744357.03	759996.55	62	268	2015
1521.00	53510.80	53759.30	709063.87	713271.11	705769.64	721511.41	37	225	2015
1521.10	36838.50	37436.40	690773.01	699277.89	758025.72	789766.65	62	268	2015
1521.11	52325.30	52542.80	699247.44	702940.60	744407.05	758121.76	93	293	2015
1522.00	53916.90	54195.90	709245.58	713478.37	705823.25	721561.27	37	225	2015
1522.10	35652.80	36484.00	691113.29	703113.84	744458.22	789251.59	62	268	2015
1523.00	54329.00	54581.10	709448.68	713664.73	705876.66	721610.23	37	225	2015
1523.10	34748.80	35544.30	691330.41	703314.10	744511.12	789230.03	62	268	2015
1524.00	54718.20	54989.20	709643.33	713864.34	705926.07	721662.42	37	225	2015
1524.10	33518.00	34010.60	691529.51	699339.47	760109.57	789277.83	62	268	2015
1524.11	34378.30	34650.20	699315.19	703500.58	744565.41	760203.82	62	268	2015
1525.00	55153.60	55412.40	709831.10	714043.54	705975.67	721716.29	37	225	2015
1525.10	32592.30	33375.30	692150.59	703696.19	744614.57	787703.09	62	268	2015
1526.00	55564.30	55846.90	710019.37	714250.12	705994.69	721770.76	37	225	2015
1526.10	31717.00	32503.70	692425.02	703886.74	744666.90	787454.59	62	268	2015
1527.00	55992.50	56244.20	710217.40	714476.56	705995.93	721821.10	37	225	2015
1527.10	41851.20	42350.00	692616.14	699916.05	760267.19	787504.70	72	274	2015
1527.11	51021.10	51280.60	699890.84	704078.19	744719.22	760366.25	72	274	2015
1528.00	56371.40	56634.90	710406.54	714670.03	705993.13	721873.16	37	225	2015
1528.10	42524.60	43017.90	693191.01	700627.96	758383.69	786149.44	72	274	2015
1528.11	51541.20	51754.00	700596.59	704245.80	744768.58	758478.94	93	293	2015
1529.00	56777.90	57024.50	710611.75	714880.15	705993.59	721922.99	37	225	2015
1529.10	43164.70	43626.20	693523.77	700305.12	760369.53	785675.30	72	274	2015
1529.11	50801.40	51050.00	700282.88	704451.81	744825.29	760465.85	93	293	2015
1530.00	57158.90	57444.70	710804.60	715081.59	705994.78	721975.40	37	225	2015
1530.10	43764.60	44213.70	693720.45	700499.07	760421.31	785729.53	72	274	2015
1530.11	32782.60	33059.30	700467.47	704644.78	744871.69	760521.36	94	295	2015
1531.00	57582.70	57831.60	710987.65	715286.12	705996.23	722027.74	37	225	2015
1531.10	44372.20	44827.70	694232.17	701204.24	758534.91	784597.89	72	274	2015
1531.11	54373.00	54610.40	701183.20	704862.01	744922.35	758631.92	93	293	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1532.00	57930.80	58208.90	711176.66	715489.27	705991.89	722077.20	37	225	2015
1532.10	44977.10	45436.90	694566.96	701401.36	758584.75	784083.92	72	274	2015
1532.11	53589.80	53809.50	701372.12	705052.01	744977.89	758681.57	93	293	2015
1533.00	58349.10	58601.50	711376.18	715707.43	705994.54	722127.61	37	225	2015
1533.10	45554.90	45995.00	694818.99	701593.83	758645.05	783948.65	72	274	2015
1533.11	52808.50	53044.40	701573.26	705239.16	745029.87	758740.35	93	293	2015
1534.00	58739.90	59025.80	711568.27	715910.26	705995.51	722183.03	37	225	2015
1534.10	46159.60	46601.10	695004.41	701788.96	758696.21	784005.25	72	274	2015
1534.11	52022.80	52266.60	701763.11	705430.68	745080.29	758792.39	93	293	2015
1535.00	59154.70	59420.70	711769.57	716111.72	705992.20	722232.32	37	225	2015
1535.10	46791.30	47207.20	695610.70	701980.43	758749.23	782530.44	72	274	2015
1535.11	51274.70	51500.60	701950.66	705629.49	745129.60	758844.16	93	293	2015
1536.00	59544.00	59816.00	711959.30	716313.37	705994.78	722283.27	37	225	2015
1536.10	47362.60	47794.30	695912.05	702170.45	758806.27	782176.76	72	274	2015
1536.11	50540.30	50762.70	702144.22	705816.65	745182.28	758903.94	93	293	2015
1537.00	59933.10	60188.80	712157.24	716524.75	705991.83	722335.00	37	225	2015
1537.10	47918.00	48333.90	696108.82	702364.77	758849.24	782222.79	72	274	2015
1537.11	49806.60	50031.90	702348.21	705993.79	745234.30	758944.48	93	293	2015
1538.00	41341.30	41615.60	712336.52	716739.63	705996.43	722389.90	26	213	2015
1538.10	48485.30	48883.20	696644.18	702551.80	758899.52	780980.21	72	274	2015
1538.11	49068.40	49288.30	702540.91	706206.73	745285.62	758992.98	93	293	2015
1539.00	40920.40	41176.80	712538.04	716942.71	705994.39	722439.58	26	213	2015
1539.10	49029.90	49403.20	696995.26	702753.68	758953.79	780464.91	72	274	2015
1539.11	48368.40	48579.30	702728.58	706397.21	745339.65	759046.85	93	293	2015
1540.00	40456.00	40720.00	712727.52	717144.15	705996.28	722494.44	26	213	2015
1540.10	49563.50	49942.90	697198.36	702945.93	759006.29	780449.65	72	274	2015
1540.11	47687.40	47893.10	702922.35	706593.17	745392.51	759100.13	93	293	2015
1541.00	49584.00	49839.60	712910.03	717361.36	705995.65	722544.59	37	225	2015
1541.10	50107.00	50491.00	697393.61	703137.97	759057.10	780501.00	72	274	2015
1541.11	50764.20	50957.30	703113.39	706784.41	745444.03	759151.75	72	274	2015
1542.00	49188.50	49482.30	713119.14	717864.02	704922.96	722594.27	37	225	2015
1542.10	51566.70	51879.50	698029.11	702818.23	761042.58	778912.88	72	274	2015
1542.12	33262.20	33519.30	702791.25	706971.56	745496.61	761136.77	94	295	2015
1543.00	40018.00	40295.80	713310.11	718049.26	704975.27	722648.00	26	213	2015
1543.10	52008.40	52336.30	698297.05	703527.67	759161.53	778671.89	72	274	2015
1543.11	49325.80	49536.80	703496.12	707162.49	745547.44	759250.79	93	293	2015
1544.00	39554.40	39832.90	713507.32	718239.13	705029.33	722697.34	26	213	2015
1544.10	52518.10	52828.10	698493.58	703206.57	761142.34	778722.12	72	274	2015
1544.11	48614.50	48854.40	703177.37	707437.60	745596.18	761235.06	93	293	2015
1545.00	39114.10	39407.40	713698.09	718440.99	705082.81	722751.58	26	213	2015
1545.10	52986.70	53266.30	699064.63	703392.86	761197.12	777358.24	72	274	2015
1545.12	32456.20	32706.10	703370.45	707559.37	745650.38	761289.25	94	295	2015
1546.00	38677.40	38965.70	713890.90	718622.11	705133.58	722801.49	26	213	2015
1546.10	53403.20	53683.50	699392.67	703586.11	761249.21	776896.47	72	274	2015
1546.11	47259.20	47490.50	703560.72	707749.18	745699.42	761342.28	93	293	2015
1547.00	38228.20	38533.90	714079.64	718820.12	705183.72	722852.85	26	213	2015
1547.10	53809.30	54080.10	699586.72	703782.46	761294.16	776948.65	72	274	2015
1547.11	46563.90	46803.80	703754.27	707945.27	745754.58	761387.36	93	293	2015
1548.00	37793.40	38090.30	714277.20	719005.57	705236.64	722906.39	26	213	2015
1548.10	32439.90	32965.40	700102.26	708140.70	745805.34	775811.07	77	281	2015
1549.00	37367.80	37671.90	714472.46	719208.50	705287.81	722959.46	26	213	2015
1549.10	33091.80	33607.50	700447.80	708313.44	745857.12	775292.25	77	281	2015
1550.00	60256.80	60562.10	714667.30	719377.16	705341.06	723011.14	37	225	2015
1550.11	35375.30	35851.80	700686.19	708522.22	745911.70	775169.29	91	291	2015
1551.00	43563.30	43855.10	714854.26	719586.88	705391.93	723065.03	87	288	2015
1551.11	34366.10	34853.00	700879.72	708715.26	745962.69	775220.07	91	291	2015
1552.00	43985.40	44300.00	715046.97	719779.82	705443.94	723114.43	87	288	2015
1552.10	34849.90	35338.50	701483.27	708917.59	746013.56	773740.92	77	281	2015
1553.00	44423.70	44728.00	715240.90	719976.17	705496.60	723165.92	87	288	2015
1553.10	35455.30	35928.10	701781.85	709108.56	746060.68	773396.19	77	281	2015
1554.00	44878.80	45202.80	715430.13	720169.06	705545.31	723216.48	87	288	2015
1554.10	36057.40	36502.10	701981.20	708756.96	748129.80	773448.09	77	281	2015
1554.11	46494.70	46528.30	708740.33	709300.32	746113.10	748227.14	93	293	2015
1555.00	34566.20	34869.90	715624.01	720358.62	705599.07	723271.37	96	298	2015
1555.11	47805.30	48231.00	702167.37	709448.92	746167.02	773494.67	91	291	2015
1556.01	34179.70	34460.70	715825.44	720550.82	705647.79	723322.26	96	298	2015
1556.10	37198.40	37654.00	702366.79	709149.52	748238.20	773551.37	77	281	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1556.11	47180.00	47211.30	709116.22	709689.65	746220.15	748331.27	93	293	2015
1557.00	47030.50	47302.70	716017.88	720746.27	705700.66	723374.57	83	285	2015
1557.11	34937.80	35330.50	702563.25	709880.87	746270.47	773604.01	91	291	2015
1558.00	46585.70	46915.60	716204.33	720942.99	705751.22	723427.16	83	285	2015
1558.11	33883.50	34325.50	702753.02	710075.11	746321.65	773650.14	91	291	2015
1559.00	46202.20	46464.50	716414.77	721144.05	705805.32	723472.02	83	285	2015
1559.10	38968.80	39361.50	702949.58	709211.06	750328.72	773703.18	77	281	2015
1559.11	46183.20	46242.20	709176.87	710274.42	746371.35	750422.40	93	293	2015
1560.00	45501.60	45612.10	719728.75	721318.10	705857.59	711846.88	83	285	2015
1560.01	45883.50	46104.20	716587.21	719745.22	711751.24	723531.11	83	285	2015
1560.12	47324.10	47766.70	703141.87	710449.91	746426.20	773757.88	91	291	2015
1561.00	45086.80	45361.20	716786.31	721527.25	705910.47	723579.53	83	285	2015
1561.10	62182.80	62686.90	703330.28	710650.93	746476.58	773806.84	75	280	2015
1562.00	44632.80	44973.20	716974.52	721707.26	705961.06	723629.60	83	285	2015
1562.10	61597.60	62111.60	703521.26	710848.11	746531.32	773860.65	75	280	2015
1563.00	44217.10	44462.40	717669.35	721908.66	705995.45	721827.05	83	285	2015
1563.10	61007.50	61502.50	703723.29	711025.02	746580.64	773911.62	75	280	2015
1564.00	43732.80	44057.50	717496.66	722125.23	705992.63	722565.12	83	285	2015
1564.10	60438.20	60928.90	703911.47	711231.67	746632.55	773965.17	75	280	2015
1565.00	43339.60	43595.30	717853.25	722330.89	705995.55	723096.69	83	285	2015
1565.10	59811.30	60325.50	704100.29	711415.89	746683.17	774015.32	75	280	2015
1566.00	42919.90	43256.30	717742.29	722525.28	705994.24	723837.77	83	285	2015
1566.10	59248.80	59742.60	704285.43	711615.43	746734.67	774066.42	75	280	2015
1567.00	48678.80	48959.30	717945.63	722721.60	705994.90	723889.73	37	225	2015
1567.10	58630.40	59133.20	704490.81	711809.62	746790.05	774120.33	75	280	2015
1568.00	42569.90	42783.50	719180.87	722950.13	705995.81	720076.49	83	285	2015
1568.10	58077.20	58555.40	704686.33	712011.01	746837.63	774170.39	75	280	2015
1569.00	42201.90	42469.30	719370.10	723153.41	705994.07	720128.04	83	285	2015
1569.10	57443.60	57942.90	704866.10	712199.17	746890.90	774223.66	75	280	2015
1570.00	41850.10	42062.20	719553.11	723359.77	705997.49	720184.69	83	285	2015
1570.10	56892.20	57364.50	705072.08	712394.53	746943.76	774270.77	75	280	2015
1571.00	41463.40	41746.50	719746.99	723564.32	705992.43	720232.88	83	285	2015
1571.10	56272.10	56775.10	705257.70	712576.07	746995.72	774328.16	75	280	2015
1572.00	41114.40	41328.00	719950.97	723782.75	705994.08	720287.33	83	285	2015
1572.10	55708.70	56190.40	705446.71	712772.31	747046.87	774377.31	75	280	2015
1573.00	40740.10	41021.10	720134.51	723973.09	705996.22	720339.47	83	285	2015
1573.10	55076.00	55587.70	705649.17	712986.71	747095.66	774429.56	75	280	2015
1574.00	40352.40	40569.30	720341.50	724202.17	705993.62	720388.18	83	285	2015
1574.11	37896.10	38329.70	705841.16	713164.51	747151.87	774477.76	94	295	2015
1575.00	39991.00	40275.70	720512.94	724395.29	705994.33	720439.88	83	285	2015
1575.10	53911.10	54414.30	706038.63	713353.34	747203.13	774531.09	75	280	2015
1576.00	39620.10	39834.50	720721.77	724610.26	705991.53	720491.46	83	285	2015
1576.10	53361.70	53838.60	706220.56	713554.95	747252.50	774581.33	75	280	2015
1577.00	39235.80	39519.20	720901.75	724816.28	705991.55	720546.35	83	285	2015
1577.10	52758.20	53265.10	706416.14	713746.92	747306.11	774635.89	75	280	2015
1578.00	38888.80	39106.60	721103.46	725015.47	705997.37	720596.13	83	285	2015
1578.10	52207.40	52686.10	706623.42	713934.27	747358.39	774689.57	75	280	2015
1579.00	38517.60	38824.60	721294.53	725520.83	704911.35	720649.76	83	285	2015
1579.10	51631.50	52137.30	706805.21	714127.22	747411.09	774737.72	75	280	2015
1580.00	38157.30	38399.30	721488.35	725708.65	704961.63	720700.65	83	285	2015
1580.10	51093.90	51564.60	706992.50	714318.60	747458.10	774792.29	75	280	2015
1581.00	37738.50	38044.90	721687.85	725905.66	705012.28	720749.97	83	285	2015
1581.10	40752.90	41229.70	707187.45	714510.16	747511.22	774844.15	77	281	2015
1582.00	37309.00	37553.50	721890.88	726102.90	705064.33	720800.73	83	285	2015
1582.10	41372.30	41858.20	707386.24	714709.62	747564.53	774892.16	77	281	2015
1583.00	36888.40	37207.50	722076.56	726284.54	705116.60	720855.84	83	285	2015
1583.10	41962.80	42438.30	707567.50	714889.08	747617.21	774944.61	77	281	2015
1584.00	36444.30	36685.90	722265.65	726473.50	705170.46	720904.39	83	285	2015
1584.10	42595.10	43090.70	707774.38	715086.09	747667.25	774999.30	77	281	2015
1585.00	36020.40	36336.30	722457.53	726678.71	705220.10	720959.31	83	285	2015
1585.10	43207.50	43686.10	707964.59	715270.36	747720.97	775048.53	77	281	2015
1586.00	35601.80	35833.20	722648.89	726874.80	705275.66	721013.14	83	285	2015
1586.10	51047.60	51538.00	708161.00	715477.38	747771.07	775104.27	77	281	2015
1587.00	35192.10	35390.90	724403.92	727058.45	705322.20	715265.15	83	285	2015
1587.10	51683.60	52116.90	708346.98	715129.96	749838.20	775151.46	77	281	2015
1587.11	45383.00	45420.30	715109.47	715679.29	747820.84	749931.70	89	289	2015
1588.00	34837.80	34982.50	724584.91	727253.72	705376.18	715313.42	83	285	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1588.10	52246.00	52686.10	708547.21	715326.97	749901.64	775202.34	77	281	2015
1588.11	45765.30	45802.80	715297.49	715864.83	747872.24	749995.76	89	289	2015
1589.00	60513.20	60676.50	724784.69	727454.57	705429.38	715368.83	68	271	2015
1589.10	52828.90	53256.50	708737.61	715525.63	749947.46	775257.47	77	281	2015
1589.11	46146.70	46183.80	715498.62	716071.49	747925.24	750046.94	89	289	2015
1590.00	60195.20	60405.70	724977.54	727631.26	705478.01	715421.44	68	271	2015
1590.10	53389.60	53853.50	708938.98	715714.70	750001.61	775311.24	77	281	2015
1590.11	46487.20	46523.30	715691.78	716260.38	747980.80	750100.34	89	289	2015
1591.00	59919.30	60079.20	725187.89	727831.38	705528.92	715474.50	68	271	2015
1591.10	54004.80	54441.40	709115.49	715912.05	750053.64	775360.56	77	281	2015
1591.11	46806.80	46843.30	715883.84	716453.38	748029.59	750146.05	89	289	2015
1592.00	59618.60	59801.90	725364.28	728023.84	705582.74	715522.54	68	271	2015
1592.10	54594.50	55060.80	709324.16	716097.84	750102.24	775413.83	77	281	2015
1592.11	47122.10	47157.50	716081.62	716648.93	748082.25	750193.77	89	289	2015
1593.00	59339.10	59498.50	725560.85	728219.77	705634.20	715577.19	68	271	2015
1593.10	55233.90	55648.40	709507.70	716287.58	750146.38	775465.15	77	281	2015
1593.11	47434.70	47470.70	716274.89	716836.44	748131.63	750240.16	89	289	2015
1594.00	59020.50	59220.20	725744.79	728414.22	705686.99	715629.13	68	271	2015
1594.10	55804.50	56258.50	709710.54	716494.32	750198.48	775516.30	77	281	2015
1594.11	47765.40	47801.80	716466.28	717026.89	748183.66	750288.08	89	289	2015
1595.00	58717.50	58884.30	725947.26	728607.86	705739.29	715683.70	68	271	2015
1595.10	56427.30	56729.70	711993.22	716688.33	750254.96	767747.51	77	281	2015
1595.11	47859.00	47896.60	716644.04	717218.47	748238.77	750348.59	89	289	2015
1595.12	38706.70	38856.00	709901.25	712015.32	767647.79	775565.62	94	295	2015
1596.00	58399.60	58584.60	726133.48	728795.77	705789.57	715734.50	68	271	2015
1596.10	57002.80	57447.30	710090.24	716884.65	750312.41	775620.96	77	281	2015
1596.11	47521.40	47561.00	716837.41	717405.11	748290.16	750409.38	89	289	2015
1597.00	58103.60	58265.70	726333.72	728983.65	705844.95	715786.40	68	271	2015
1597.10	57590.20	58006.60	710279.64	717064.74	750353.19	775669.70	77	281	2015
1597.11	47190.20	47230.70	717036.72	717620.95	748341.93	750444.69	89	289	2015
1598.00	57793.40	57978.50	726525.33	729188.34	705893.29	715836.32	68	271	2015
1598.10	58143.10	58599.30	710481.17	717273.80	750413.96	775719.67	77	281	2015
1598.11	46882.10	46922.70	717231.85	717809.75	748390.49	750510.25	89	289	2015
1599.00	57493.70	57655.60	726709.88	729382.16	705944.49	715889.65	68	271	2015
1599.10	58735.10	59171.60	710671.49	717458.26	750459.97	775777.19	77	281	2015
1599.11	46577.80	46617.70	717422.87	717995.20	748443.39	750553.27	89	289	2015
1600.00	57217.90	57402.60	726902.07	729575.67	705994.19	715938.26	68	271	2015
1600.10	59303.50	59772.60	710876.66	717665.93	750506.46	775823.41	77	281	2015
1600.11	46244.20	46282.00	717616.47	718189.35	748495.47	750602.36	89	289	2015
1601.00	56921.60	57086.00	727099.54	729787.45	705992.33	715992.61	68	271	2015
1601.10	59932.70	60353.60	711052.25	717843.19	750573.88	775878.44	77	281	2015
1601.11	45882.90	45924.20	717802.66	718379.70	748548.40	750671.85	89	289	2015
1602.00	56634.20	56823.80	727293.17	729996.04	705990.92	716043.50	68	271	2015
1602.10	60491.90	60940.80	711250.32	718032.01	750617.13	775931.96	77	281	2015
1602.11	45500.60	45540.70	718002.99	718575.10	748597.36	750715.24	89	289	2015
1603.00	56337.30	56508.00	727492.08	730199.41	705994.98	716093.82	68	271	2015
1603.10	61079.80	61533.90	711434.37	718227.45	750668.79	775984.17	77	281	2015
1603.11	45105.10	45146.40	718203.23	718766.93	748648.37	750760.04	89	289	2015
1604.00	56022.10	56207.40	727687.10	730403.41	705994.43	716144.70	68	271	2015
1604.10	47362.70	47826.30	711635.50	718971.01	748702.41	776034.94	85	286	2015
1605.00	55708.70	55870.70	727872.29	730609.13	705994.65	716200.01	68	271	2015
1605.10	48648.10	49124.10	711834.13	719150.93	748753.09	776085.65	85	286	2015
1606.00	55391.30	55577.00	728076.04	730815.62	705993.57	716252.97	68	271	2015
1606.10	54387.80	54857.10	712026.17	719344.20	748807.08	776136.85	87	288	2015
1607.00	55105.70	55272.40	728271.72	731030.94	705994.36	716300.83	68	271	2015
1607.10	55544.20	56020.10	712229.34	719541.53	748858.22	776190.20	87	288	2015
1608.00	54796.60	55004.80	728446.49	731225.83	705993.24	716355.19	68	271	2015
1608.10	56662.80	57156.00	712417.05	719730.57	748909.77	776239.36	87	288	2015
1609.00	54517.70	54677.70	728654.21	731447.76	705994.04	716406.29	68	271	2015
1609.10	57864.80	58321.90	712617.22	719926.19	748960.53	776292.85	87	288	2015
1610.00	54203.30	54414.50	728834.66	731641.76	705993.63	716459.37	68	271	2015
1610.10	58974.80	59430.50	712810.32	720115.26	749014.38	776341.63	87	288	2015
1611.00	53919.40	54058.90	729019.78	731855.91	705996.24	716509.89	68	271	2015
1611.10	60066.60	60509.20	713003.17	720310.30	749065.74	776394.02	87	288	2015
1612.00	53626.30	53815.20	729223.97	732057.71	705996.13	716558.83	68	271	2015
1612.10	61143.10	61600.50	713184.85	720505.71	749115.30	776448.37	87	288	2015
1613.01	53315.40	53486.40	729417.44	732264.81	705995.43	716613.03	68	271	2015

MAGNETIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1613.10	39351.50	39868.00	713375.46	720693.50	749171.17	776497.39	89	289	2015
1614.00	42235.20	42698.90	713581.79	720890.92	749221.60	776548.19	89	289	2015
1615.00	43429.80	43892.10	713772.85	721080.11	749269.35	776601.10	89	289	2015
1616.00	44572.10	45041.50	713963.39	721283.46	749321.70	776652.22	89	289	2015
1617.00	43963.50	44487.90	714150.13	721466.50	749373.64	776703.70	89	289	2015
1618.00	47887.30	48406.90	714337.60	721623.10	749429.74	776757.36	85	286	2015
1619.00	49189.60	49718.50	714535.94	721813.22	749480.58	776809.18	85	286	2015
1620.00	54920.00	55427.00	714732.78	722033.33	749530.09	776860.51	87	288	2015
1621.00	56089.90	56576.90	714923.81	722235.97	749581.75	776911.32	87	288	2015
1622.00	57232.10	57746.20	715108.69	722432.41	749633.80	776965.72	87	288	2015
1623.00	58391.60	58889.80	715303.93	722624.62	749683.50	777017.28	87	288	2015
1624.00	59497.90	59973.20	715513.32	722817.44	749740.70	777065.04	87	288	2015
1625.00	60575.90	61062.20	715693.32	723008.65	749790.32	777120.51	87	288	2015
1626.00	38824.70	39275.70	715891.65	723203.97	749840.68	777171.42	89	289	2015
1627.00	39978.10	40436.40	716086.80	723406.64	749894.94	777223.37	89	289	2015
1628.00	42795.30	43333.10	716269.26	723600.66	749945.42	777276.91	89	289	2015
1629.00	41616.60	42147.50	716457.79	723773.89	749996.39	777327.36	89	289	2015
1630.00	60932.20	61318.50	716664.63	723434.32	752065.89	777378.55	83	285	2015
1630.01	41262.50	41304.00	723408.88	723977.22	750047.34	752163.35	89	289	2015
1631.00	60332.00	60838.50	716850.10	723631.55	752138.73	777432.44	83	285	2015
1631.01	41136.60	41174.30	723610.27	724178.26	750099.22	752232.93	89	289	2015
1632.00	59852.80	60245.90	717042.43	723823.31	752177.34	777483.44	83	285	2015
1632.01	40879.60	40921.20	723792.58	724366.50	750151.68	752268.27	89	289	2015
1633.00	59238.80	59742.70	717246.73	724012.88	752224.58	777531.97	83	285	2015
1633.01	40757.00	40792.60	723994.72	724565.83	750202.19	752319.84	89	289	2015
1634.00	58766.10	59153.60	717438.79	724210.31	752282.81	777584.87	83	285	2015
1634.01	40499.10	40537.70	724178.84	724754.36	750253.75	752377.26	89	289	2015
1635.00	58146.50	58422.40	721243.33	724949.42	750306.71	764113.67	83	285	2015
1636.00	57801.40	58019.40	721444.51	725131.23	750356.66	764167.94	83	285	2015
1637.00	57419.20	57688.50	721635.49	725330.72	750411.97	764215.16	83	285	2015
1638.00	57085.00	57299.50	721836.08	725512.78	750465.61	764270.64	83	285	2015
1639.00	56677.70	56921.70	722539.30	725717.73	750511.24	762390.63	83	285	2015
1640.00	56381.40	56566.40	722736.32	725910.16	750568.94	762441.47	83	285	2015
1641.00	56035.10	56279.50	722918.85	726106.25	750617.39	762492.51	83	285	2015
1642.00	55729.00	55919.60	723114.22	726298.53	750672.30	762545.76	83	285	2015
1643.00	55376.30	55625.90	723317.92	726489.13	750721.22	762595.10	83	285	2015
1644.00	55082.90	55273.90	723498.50	726685.25	750771.97	762649.57	83	285	2015
1645.00	54788.40	54992.00	723692.49	726360.80	752757.04	762698.04	83	285	2015
1646.00	54527.90	54679.60	723895.60	726549.25	752809.80	762747.19	83	285	2015
1647.00	45915.00	46091.40	724078.63	726757.06	752859.49	762805.72	82	284	2015
1648.00	45639.40	45815.40	724273.34	726936.09	752910.48	762855.29	82	284	2015
1649.00	45341.50	45521.80	724465.33	727147.46	752964.61	762903.59	82	284	2015
1650.00	45060.10	45238.20	724675.51	727321.38	753014.77	762958.04	82	284	2015
1651.00	44759.00	44941.10	724861.14	727524.24	753068.53	763009.44	82	284	2015
1652.00	44488.10	44661.60	725053.31	727712.84	753117.68	763062.84	82	284	2015
1653.00	44208.00	44375.90	725239.82	727910.10	753170.61	763112.72	82	284	2015
1654.00	43937.30	44096.50	725437.51	728104.92	753221.28	763167.94	82	284	2015
1655.00	43655.90	43826.60	725630.99	728305.00	753275.88	763215.23	82	284	2015
1656.00	43396.40	43556.20	725829.29	728487.31	753325.82	763271.44	82	284	2015
1657.00	43105.60	43290.20	726003.71	728680.73	753376.21	763322.39	82	284	2015
1658.00	42845.20	43013.70	726207.60	728875.32	753431.78	763370.43	82	284	2015
1659.00	42567.20	42747.90	726403.05	729070.90	753479.53	763422.49	82	284	2015
1660.00	42334.90	42487.10	726587.66	729266.25	753532.09	763472.59	82	284	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
101.00	41250.00	41356.00	725335.34	732182.15	705020.73	706841.49	48	248	2015
102.00	40734.00	40982.00	717673.60	731634.71	705036.84	708773.86	48	248	2015
103.00	40291.00	40645.00	709844.86	731101.54	705001.78	710701.62	48	248	2015
104.00	39608.00	40094.00	702147.65	730610.45	705011.02	712643.74	48	248	2015
105.00	38923.00	39534.00	694478.46	730091.40	705026.78	714573.34	48	248	2015
106.00	38004.00	38736.00	686670.16	729553.60	705003.47	716499.33	48	248	2015
107.00	37056.00	37837.00	678978.90	723824.29	705014.12	717039.47	48	248	2015
108.00	35945.00	36876.00	671334.02	723340.98	705038.67	718978.85	48	248	2015
109.00	34811.00	35813.00	663449.43	722811.89	704994.03	720898.28	48	248	2015
110.00	51785.00	52802.00	655807.56	707332.51	705017.08	718809.29	71	273	2015
110.01	37959.00	38147.00	707275.77	718616.85	718813.22	721854.80	87	288	2015
111.00	53333.00	54286.00	648102.30	707596.77	705024.15	720968.07	71	273	2015
111.01	38258.00	38427.00	707508.74	718086.46	720941.66	723780.03	87	288	2015
112.00	54506.00	55704.00	640274.53	704638.13	704992.43	722245.67	71	273	2015
113.00	56092.00	57251.00	632604.74	704100.72	705011.52	724170.65	71	273	2015
114.00	42439.00	43782.00	624904.14	703577.97	705027.10	726102.11	64	269	2015
115.00	40727.00	42253.00	617241.29	699505.87	705030.76	727080.23	64	269	2015
115.01	32563.00	32628.00	699463.23	703059.30	727065.74	728026.19	90	290	2015
116.00	38904.00	40572.00	609378.43	701685.05	704999.73	729744.53	64	269	2015
116.01	32722.00	32738.00	701631.37	702592.77	729720.14	729975.32	90	290	2015
117.00	37915.00	38750.00	605408.52	651555.17	705999.56	718392.21	64	269	2015
117.01	33833.00	34733.00	651485.60	702076.24	718347.48	731914.73	79	282	2015
118.00	36990.00	37847.00	604884.01	652170.96	707943.40	720607.12	64	269	2015
118.01	31897.00	32825.00	652144.00	701536.49	720607.29	733838.69	79	282	2015
119.00	35098.00	35770.00	663407.26	701017.27	725700.28	735772.91	64	269	2015
119.01	36019.00	36846.00	604348.17	651079.61	709861.59	722373.47	64	269	2015
119.02	33056.00	33278.00	651051.39	663450.42	722379.23	725699.51	79	282	2015
120.00	42594.00	44172.00	603850.46	700498.96	711804.33	737699.00	75	280	2015
121.00	61441.00	62957.00	603345.09	696239.03	713735.89	738622.76	80	282	2015
121.01	45982.00	46079.00	696194.08	702321.96	738612.17	740257.35	86	287	2015
122.00	44032.00	45577.00	602812.41	688529.69	715662.58	738643.99	86	287	2015
122.01	45709.00	45936.00	688485.59	701774.35	738628.33	742191.27	86	287	2015
123.00	38574.00	40678.00	602300.12	726731.01	717599.51	750946.76	86	287	2015
124.00	57899.00	58240.00	710281.55	729310.36	748605.21	753699.62	80	282	2015
124.01	42119.00	43915.00	601778.39	710321.03	719532.20	748599.81	86	287	2015
125.00	56530.00	57812.00	653504.74	728791.76	735454.44	755635.94	80	282	2015
125.01	59254.00	60191.00	601291.79	653546.64	721478.97	735463.76	80	282	2015
126.00	39910.00	40419.00	600724.32	629183.39	723391.14	731012.44	5	183	2015
126.10	54863.00	56301.00	649219.64	728298.47	736378.77	757572.99	80	282	2015
127.01	39445.00	40014.00	600237.76	628694.38	725327.55	732954.63	75	280	2015
127.10	53393.00	54765.00	648712.73	727765.10	738315.80	759503.80	80	282	2015
128.01	40137.00	40615.00	599717.03	628139.46	727261.55	734876.73	75	280	2015
128.10	36547.00	38013.00	648219.79	727274.04	740258.52	761434.09	79	282	2015
129.01	40774.00	41321.00	599204.88	627642.11	729192.69	736810.14	75	280	2015
129.10	35431.00	36414.00	667565.49	726742.94	747505.81	763370.09	79	282	2015
130.00	51504.00	52537.00	667092.75	722005.06	749455.81	764174.26	69	272	2015
131.00	44766.00	45782.00	666567.57	720714.18	751379.90	765886.55	69	272	2015
132.00	45847.00	46779.00	666034.39	720150.38	753318.11	767804.92	69	272	2015
133.00	52685.00	53575.00	665523.89	719662.76	755244.04	769748.98	69	272	2015
134.00	46910.00	47954.00	664979.16	719162.52	757167.63	771683.72	69	272	2015
135.00	50106.00	51013.00	664475.23	718635.28	759112.50	773611.35	69	272	2015
136.00	48067.00	48934.00	667441.04	718124.39	761970.79	775547.58	69	272	2015
137.00	49044.00	49983.00	666903.05	717572.00	763892.48	777472.81	69	272	2015
138.00	53875.00	54451.00	666432.91	701008.33	765835.31	775110.57	59	267	2015
139.00	54591.00	55261.00	665891.50	699756.21	767763.38	776830.07	59	267	2015
140.00	42800.00	43405.00	662466.53	698632.46	768923.99	778604.93	62	268	2015
141.00	42061.00	42706.00	661967.38	697543.94	770861.21	780422.89	62	268	2015
142.00	41387.00	41967.00	661454.65	696235.68	772796.40	782109.28	62	268	2015
143.00	40641.00	41300.00	660900.11	695179.74	774711.38	783896.21	62	268	2015
144.00	39953.00	40511.00	660373.46	693867.48	776642.47	785614.00	62	268	2015
145.00	39233.00	39589.00	672840.55	692803.93	782051.08	787410.41	62	268	2015
146.00	38810.00	39129.00	672305.38	691705.29	783993.98	789175.48	62	268	2015
147.00	38354.00	38721.00	671787.71	690377.05	785911.93	790893.41	62	268	2015
148.00	37953.00	38249.00	671284.87	689274.79	787848.33	792666.54	62	268	2015
149.00	37551.00	37862.00	670718.07	688008.36	789768.22	794398.12	62	268	2015
1001.00	59882.00	60258.00	599287.25	605548.94	705949.66	729333.22	1002	181	2015
1002.00	60360.00	60842.00	599474.49	605745.56	705987.86	729388.08	1002	181	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1003.00	60955.00	61331.00	599678.55	605951.49	706008.73	729426.34	1002	181	2015
1004.00	61453.00	61891.00	599859.99	606163.87	705992.11	729519.90	1002	181	2015
1005.00	62059.00	62451.00	600055.76	606372.83	706010.50	729566.14	1002	181	2015
1006.00	62573.00	62993.00	600243.72	606566.68	706023.60	729620.13	1002	181	2015
1007.00	63156.00	63532.00	600447.23	606785.56	705995.61	729652.16	1002	181	2015
1008.00	63668.00	64098.00	600631.19	606991.59	706003.84	729705.87	1002	181	2015
1009.00	64208.00	64587.00	600827.46	607192.44	706010.60	729778.23	1002	181	2015
1010.00	64728.00	65203.00	601027.44	607394.30	706020.05	729810.59	1002	181	2015
1011.00	65337.00	65738.00	601217.58	607601.09	706042.18	729850.84	1002	181	2015
1012.00	32890.00	33307.00	601396.95	607806.80	706013.01	729909.13	1003	182	2015
1013.01	31145.00	31566.00	601606.96	608019.71	706011.69	729938.14	11	200	2015
1014.01	31718.00	32143.00	601800.58	608222.76	706020.34	729998.08	11	200	2015
1015.01	32294.00	32718.00	601976.57	608439.07	706017.18	730094.10	11	200	2015
1016.00	35287.00	35727.00	602179.41	608633.39	706022.89	730114.22	1003	182	2015
1017.00	35872.00	36313.00	602370.15	608844.32	706010.00	730183.22	1003	182	2015
1018.00	36433.00	36854.00	602563.45	609046.35	706047.02	730208.75	1003	182	2015
1019.00	37023.00	37484.00	602761.36	609546.53	704922.81	730281.20	1003	182	2015
1020.00	37603.00	38044.00	602943.90	609737.42	704987.53	730342.05	1003	182	2015
1021.00	38226.00	38698.00	603137.77	609935.73	705048.46	730397.65	1003	182	2015
1022.00	38860.00	39330.00	603335.82	610130.69	705101.33	730427.43	1003	182	2015
1023.00	39493.00	39961.00	603527.15	610318.75	705153.84	730494.78	1003	182	2015
1024.00	40132.00	40605.00	603728.70	610519.01	705166.63	730506.92	1003	182	2015
1025.00	40740.00	41203.00	603922.13	610707.59	705241.82	730588.45	1003	182	2015
1026.00	41358.00	41824.00	604109.64	610908.24	705284.32	730644.77	1003	182	2015
1027.00	41966.00	42428.00	604314.67	611093.73	705349.19	730660.40	1003	182	2015
1028.01	37878.00	38346.00	604499.70	611293.83	705387.98	730756.73	75	280	2015
1029.01	37267.00	37709.00	604691.31	611486.67	705434.65	730805.58	75	280	2015
1030.01	36679.00	37128.00	604889.80	611682.18	705478.83	730826.61	75	280	2015
1031.01	36103.00	36544.00	605081.53	611881.63	705517.57	730899.68	75	280	2015
1032.01	35519.00	35966.00	605278.47	612065.14	705588.63	730925.82	75	280	2015
1033.01	34943.00	35375.00	605467.76	612260.64	705653.21	730999.86	75	280	2015
1034.00	44409.00	44883.00	605662.35	612443.72	705718.79	731041.04	5	183	2015
1035.00	45043.00	45490.00	605845.83	612656.17	705729.92	731115.58	5	183	2015
1036.00	45674.00	46135.00	606036.08	612836.30	705830.92	731175.27	5	183	2015
1037.00	46313.00	46747.00	606239.47	613029.05	705863.29	731212.29	5	183	2015
1038.00	46925.00	47377.00	606438.28	613227.18	705893.82	731247.39	5	183	2015
1039.00	47514.00	47958.00	606628.66	613426.59	705931.66	731287.83	5	183	2015
1040.00	31719.00	32163.00	606823.63	613600.99	706036.61	731336.73	7	184	2015
1041.00	32358.00	32797.00	607014.36	613809.25	706037.19	731401.35	7	184	2015
1042.00	33008.00	33470.00	607200.83	614030.49	705995.66	731461.12	7	184	2015
1043.00	33641.00	34082.00	607396.07	614224.15	706027.70	731519.14	7	184	2015
1044.01	54682.00	55088.00	607583.19	614441.28	705992.92	731592.96	65	270	2015
1045.01	54099.00	54570.00	607793.73	614650.83	706008.80	731616.65	65	270	2015
1046.01	41590.00	42010.00	607976.05	614848.58	706009.91	731682.10	65	270	2015
1047.01	40987.00	41469.00	608166.66	615053.83	706035.96	731743.38	65	270	2015
1048.01	40417.00	40840.00	608365.96	615268.98	706039.24	731762.71	65	270	2015
1049.01	39769.00	40296.00	608556.49	615471.84	706010.40	731827.31	65	270	2015
1050.01	39202.00	39620.00	608757.34	615672.41	706017.25	731854.58	65	270	2015
1051.01	38613.00	39096.00	608944.68	615887.05	706008.15	731932.40	65	270	2015
1052.01	38054.00	38470.00	609136.14	616091.38	706040.41	731982.15	65	270	2015
1053.01	37418.00	37933.00	609330.90	616298.96	706035.63	732028.98	65	270	2015
1054.01	36853.00	37274.00	609517.89	616504.42	706006.84	732100.92	65	270	2015
1055.01	36218.00	36723.00	609714.07	616713.70	706036.61	732134.59	65	270	2015
1056.01	35629.00	36054.00	609909.19	616923.79	706019.83	732202.75	65	270	2015
1057.01	34957.00	35500.00	610101.00	617417.57	704946.59	732251.39	65	270	2015
1058.01	34366.00	34824.00	610293.98	617589.39	705034.52	732308.01	65	270	2015
1059.01	33710.00	34232.00	610491.98	617799.88	705057.02	732346.51	65	270	2015
1060.01	33107.00	33563.00	610688.34	617979.20	705115.16	732371.55	65	270	2015
1061.01	32451.00	32981.00	610869.74	618187.68	705174.79	732457.77	65	270	2015
1062.01	31804.00	32266.00	611065.57	618368.81	705243.09	732510.67	65	270	2015
1063.01	31160.00	31664.00	611258.47	618562.23	705294.10	732574.18	65	270	2015
1064.00	32933.00	33430.00	611454.70	618769.06	705295.55	732593.49	11	200	2015
1065.00	33578.00	34062.00	611642.82	618959.31	705351.05	732665.54	11	200	2015
1066.00	34204.00	34703.00	611831.53	619152.29	705417.25	732727.44	11	200	2015
1067.00	34830.00	35322.00	612027.22	619345.28	705471.69	732781.19	11	200	2015
1068.00	35496.00	35985.00	612234.24	619540.54	705519.41	732797.56	11	200	2015
1069.00	36159.00	36643.00	612419.98	619728.13	705589.26	732876.56	11	200	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1070.01	43018.00	43520.00	612618.31	619948.20	705622.22	732908.49	94	295	2015
1071.00	37404.00	37895.00	612812.50	620112.02	705710.46	732968.35	11	200	2015
1072.00	38040.00	38536.00	612998.16	620306.09	705742.36	733027.29	11	200	2015
1073.00	38702.00	39184.00	613194.58	620494.34	705801.21	733073.84	11	200	2015
1074.00	39318.00	39811.00	613377.11	620700.78	705817.08	733147.38	11	200	2015
1075.00	39945.00	40442.00	613569.19	620890.16	705875.12	733194.19	11	200	2015
1076.00	40624.00	41119.00	613777.83	621084.44	705945.99	733223.65	11	200	2015
1077.00	41268.00	41759.00	613965.75	621278.09	705979.94	733285.98	11	200	2015
1078.00	51045.00	51521.00	614161.40	621470.92	706046.68	733323.55	12	202	2015
1079.00	32299.00	32796.00	614342.32	621684.14	706020.13	733408.13	13	203	2015
1080.00	31622.00	32119.00	614545.76	621881.51	706002.27	733435.80	13	203	2015
1081.00	61494.00	61996.00	614737.32	622094.53	706019.54	733483.75	14	203	2015
1082.00	32926.00	33416.00	614936.67	622309.58	706004.68	733514.84	13	203	2015
1083.00	62795.00	63298.00	615124.82	622513.04	706017.40	733573.77	14	203	2015
1084.00	60840.00	61337.00	615325.61	622715.85	706041.01	733656.05	14	203	2015
1085.00	64065.00	64570.00	615517.70	622932.20	706010.61	733671.39	14	203	2015
1086.00	62115.00	62599.00	615722.23	623133.95	706013.47	733725.42	14	203	2015
1087.00	65309.00	65814.00	615903.28	623344.21	706014.77	733788.10	14	203	2015
1088.00	63424.00	63926.00	616092.39	623545.70	706037.04	733852.56	14	203	2015
1089.00	36219.00	36712.00	616279.63	623763.35	706010.84	733915.08	15	204	2015
1090.00	64689.00	65181.00	616480.78	623961.92	706028.85	733977.52	14	203	2015
1091.00	39735.00	40225.00	616677.18	624167.31	706025.29	733986.96	15	204	2015
1092.00	36836.00	37340.00	616868.62	624361.72	706039.69	734031.87	15	204	2015
1093.00	41095.00	41589.00	617055.83	624590.00	706019.88	734115.33	15	204	2015
1094.00	39042.00	39571.00	617250.75	625079.18	704951.67	734179.40	15	204	2015
1095.00	42423.00	42938.00	617444.63	625267.78	705019.54	734194.32	15	204	2015
1096.00	40342.00	40887.00	617633.27	625463.52	705039.57	734260.08	15	204	2015
1097.00	43721.00	44234.00	617824.51	625652.76	705119.22	734317.74	15	204	2015
1098.00	41731.00	42271.00	618022.79	625854.43	705146.57	734365.18	15	204	2015
1099.00	52049.00	52590.00	618214.37	626036.70	705209.54	734426.65	12	202	2015
1100.00	52861.00	53381.00	618408.22	626247.34	705233.85	734490.66	12	202	2015
1101.00	53573.00	54116.00	618605.43	626425.12	705317.45	734510.88	12	202	2015
1102.00	43057.00	43601.00	618799.68	626615.48	705369.73	734546.24	15	204	2015
1103.00	45084.00	45600.00	618988.97	626821.01	705397.03	734617.56	15	204	2015
1104.00	44370.00	44903.00	619175.76	627010.49	705463.63	734698.50	15	204	2015
1105.00	53264.00	53792.00	619376.68	627208.74	705512.79	734723.04	15	204	2015
1106.00	53936.00	54456.00	619568.15	627393.09	705583.94	734800.77	15	204	2015
1107.00	54631.00	55146.00	619769.65	627599.21	705595.64	734807.85	15	204	2015
1108.00	55274.00	55815.00	619948.96	627780.46	705677.19	734906.09	15	204	2015
1109.00	55935.00	56454.00	620151.91	627971.72	705736.25	734911.67	15	204	2015
1110.00	56583.00	57116.00	620344.94	628177.33	705749.02	734974.58	15	204	2015
1111.00	57279.00	57792.00	620537.76	628357.65	705844.14	735050.37	15	204	2015
1112.00	52641.00	53168.00	620737.76	628550.06	705880.74	735068.37	15	204	2015
1113.00	33590.00	34094.00	620928.48	628748.18	705898.45	735153.69	13	203	2015
1114.00	57912.00	58434.00	621114.82	628941.51	705989.99	735172.32	15	204	2015
1115.00	58566.00	59102.00	621306.40	629147.54	706007.96	735246.64	15	204	2015
1116.00	59223.00	59738.00	621503.45	629343.45	706050.33	735298.78	15	204	2015
1117.00	59893.00	60413.00	621699.15	629555.61	706003.01	735332.49	15	204	2015
1118.00	60528.00	61061.00	621886.12	629751.25	706044.34	735413.29	15	204	2015
1119.00	61183.00	61717.00	622084.56	629980.81	705994.29	735434.81	15	204	2015
1120.00	61841.00	62371.00	622267.06	630169.95	706040.11	735513.36	15	204	2015
1121.00	62584.00	63117.00	622471.92	630378.62	706025.33	735527.38	15	204	2015
1122.00	32827.00	33354.00	622571.08	630585.19	706017.43	735627.91	17	205	2015
1123.00	33512.00	34057.00	622845.18	630789.01	706025.82	735684.21	17	205	2015
1124.00	34161.00	34668.00	622966.56	631003.72	706040.75	735719.24	17	205	2015
1125.00	34834.00	35388.00	623245.52	631202.29	706031.93	735748.16	17	205	2015
1126.00	35516.00	36041.00	623438.66	631415.63	706046.61	735792.80	17	205	2015
1127.01	41677.00	42222.00	623629.67	631622.47	706019.74	735881.40	94	295	2015
1128.00	36896.00	37403.00	623822.91	631826.61	706051.36	735908.61	17	205	2015
1129.00	37587.00	38156.00	624012.99	632006.20	706005.46	735990.29	17	205	2015
1130.00	38311.00	38840.00	624205.96	632260.05	705992.93	736039.53	17	205	2015
1131.00	38999.00	39582.00	624412.57	632738.27	704927.70	736052.43	17	205	2015
1132.00	39720.00	40259.00	624595.80	632931.77	704981.52	736104.21	17	205	2015
1133.00	40497.00	41084.00	624781.77	633144.07	705015.68	736198.88	17	205	2015
1134.00	41209.00	41754.00	624973.55	633325.06	705066.78	736247.87	17	205	2015
1135.00	41896.00	42460.00	625161.58	633515.44	705129.85	736295.72	17	205	2015
1136.00	30623.00	31172.00	625367.48	633713.61	705184.03	736326.50	18	206	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1137.00	31327.00	31898.00	625563.57	633910.55	705218.66	736386.61	18	206	2015
1138.00	32019.00	32571.00	625749.54	634104.86	705269.86	736455.35	18	206	2015
1139.00	32718.00	33302.00	625946.17	634284.11	705361.76	736489.49	18	206	2015
1140.00	33476.00	34057.00	626139.80	634484.73	705366.97	736522.68	18	206	2015
1141.00	34203.00	34778.00	626329.78	634686.27	705417.57	736607.43	18	206	2015
1142.00	34901.00	35458.00	626528.95	634869.05	705499.98	736636.57	18	206	2015
1143.00	35604.00	36178.00	626720.32	635069.07	705533.29	736687.55	18	206	2015
1144.00	36315.00	36866.00	626918.53	635258.54	705590.29	736718.84	18	206	2015
1145.00	37025.00	37584.00	627101.79	635453.72	705645.08	736805.27	18	206	2015
1146.00	37715.00	38264.00	627298.06	635641.79	705718.57	736847.12	18	206	2015
1147.00	38415.00	38986.00	627486.35	635835.42	705761.81	736912.21	18	206	2015
1148.00	39202.00	39612.00	629758.89	636040.68	705788.78	729210.27	18	206	2015
1149.00	39738.00	40153.00	629951.54	636220.92	705882.91	729263.13	18	206	2015
1150.00	55035.00	55450.00	630135.38	636364.99	705924.93	729337.07	18	206	2015
1151.00	55564.00	55973.00	630335.22	636610.60	705949.57	729380.88	18	206	2015
1152.00	56129.00	56552.00	630530.31	636799.35	706040.49	729425.70	18	206	2015
1153.00	56662.00	57075.00	630711.36	637008.77	706008.73	729508.24	18	206	2015
1154.00	30473.00	30873.00	630928.56	637216.70	706010.74	729502.52	19	209	2015
1155.00	31036.00	31474.00	631109.53	637424.78	706032.45	729578.37	19	209	2015
1156.00	31622.00	32029.00	631295.11	637626.55	706037.71	729655.15	19	209	2015
1157.00	32186.00	32611.00	631489.26	637828.11	706044.59	729710.02	19	209	2015
1158.00	32762.00	33161.00	631683.62	638052.79	705993.67	729734.96	19	209	2015
1159.00	33308.00	33744.00	631870.24	638257.44	706027.43	729774.71	19	209	2015
1160.00	33889.00	34302.00	632065.32	638454.64	706042.68	729860.98	19	209	2015
1161.00	34452.00	34884.00	632271.55	638674.98	705997.59	729890.59	19	209	2015
1162.00	30433.00	30839.00	632460.46	638878.27	706000.04	729944.51	21	210	2015
1163.01	33932.00	34355.00	632659.66	639091.71	705992.66	730010.17	75	280	2015
1164.00	31587.00	31993.00	632847.89	639281.45	706039.55	730042.13	21	210	2015
1165.01	33376.00	33816.00	633040.21	639504.44	706007.40	730108.17	75	280	2015
1166.00	32724.00	33130.00	633231.42	639702.12	706010.60	730163.04	21	210	2015
1167.00	33266.00	33720.00	633425.25	639909.50	705996.77	730192.43	21	210	2015
1168.00	33850.00	34275.00	633620.84	640405.77	704925.73	730248.01	21	210	2015
1169.00	45567.00	46011.00	633818.53	640611.16	704945.91	730295.66	18	206	2015
1170.00	46159.00	46616.00	634010.52	640791.25	705025.39	730337.54	18	206	2015
1171.00	46746.00	47202.00	634209.64	640989.23	705081.77	730386.61	18	206	2015
1172.00	47309.00	47759.00	634389.05	641180.96	705124.80	730459.56	18	206	2015
1173.00	47906.00	48349.00	634586.23	641380.45	705170.16	730507.03	18	206	2015
1174.00	48487.00	48952.00	634781.03	641570.08	705204.43	730560.12	18	206	2015
1175.00	49083.00	49536.00	634977.95	641757.45	705295.17	730641.92	18	206	2015
1176.00	49652.00	50116.00	635156.71	641955.88	705326.75	730690.50	18	206	2015
1177.00	50262.00	50725.00	635368.90	642159.17	705361.20	730701.39	18	206	2015
1178.00	50857.00	51314.00	635560.25	642353.95	705410.38	730755.05	18	206	2015
1179.00	51443.00	51898.00	635732.37	642541.84	705451.74	730825.44	18	206	2015
1180.00	52040.00	52501.00	635935.91	642739.34	705508.17	730887.73	18	206	2015
1181.00	52677.00	53126.00	636140.21	642913.59	705595.80	730926.46	18	206	2015
1182.00	53259.00	53716.00	636322.94	643117.12	705622.57	730994.53	18	206	2015
1183.00	53828.00	54274.00	636514.22	643304.96	705711.79	731029.52	18	206	2015
1184.00	54409.00	54860.00	636716.14	643510.49	705715.43	731069.22	18	206	2015
1185.00	34400.00	34853.00	636896.89	643700.01	705776.38	731166.46	21	210	2015
1186.00	34990.00	35410.00	637087.90	643898.11	705815.79	731210.61	21	210	2015
1187.00	35567.00	36018.00	637288.00	644080.26	705898.19	731242.59	21	210	2015
1188.00	50089.00	50618.00	637482.02	644280.91	705923.08	731283.61	65	270	2015
1189.00	50756.00	51162.00	637676.32	644469.03	705996.69	731354.48	65	270	2015
1190.00	51337.00	51813.00	637875.40	644676.05	706014.23	731386.82	65	270	2015
1191.00	51935.00	52351.00	638060.22	644873.57	706038.87	731462.50	65	270	2015
1192.00	52497.00	53019.00	638263.85	645084.55	706008.43	731489.94	65	270	2015
1193.00	53137.00	53563.00	638453.00	645294.19	706002.09	731545.87	65	270	2015
1194.00	36151.00	36585.00	638642.88	645497.50	706019.13	731593.72	21	210	2015
1195.00	36761.00	37215.00	638829.78	645698.63	706011.43	731664.56	21	210	2015
1196.00	37343.00	37776.00	639015.03	645903.30	706039.92	731700.81	21	210	2015
1197.00	37916.00	38380.00	639221.23	646116.20	706027.69	731756.42	21	210	2015
1198.00	38522.00	38958.00	639416.60	646322.75	706022.35	731797.83	21	210	2015
1199.00	39125.00	39597.00	639607.46	646523.25	706045.40	731860.65	21	210	2015
1200.00	39743.00	40187.00	639798.18	646735.66	706024.93	731894.03	21	210	2015
1201.00	40324.00	40799.00	639994.22	646942.83	706019.97	731948.89	21	210	2015
1202.00	40935.00	41384.00	640183.36	647160.01	705995.36	732026.36	21	210	2015
1202.01	40935.00	41384.00	640183.36	647160.01	705995.36	732026.36	21	210	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1203.00	41547.00	42010.00	640379.66	647359.00	706016.51	732096.39	21	210	2015
1204.00	49032.00	49468.00	640567.89	647564.84	706029.92	732138.40	21	210	2015
1205.00	49625.00	50080.00	640770.83	647768.66	706048.73	732173.16	21	210	2015
1206.00	50202.00	50665.00	640961.09	648275.16	704938.00	732234.15	21	210	2015
1207.00	50815.00	51297.00	641155.01	648465.55	704988.04	732278.96	21	210	2015
1208.00	51434.00	51897.00	641340.63	648665.79	705032.07	732300.27	21	210	2015
1209.00	52052.00	52563.00	641526.20	648842.02	705119.55	732404.15	21	210	2015
1210.00	52675.00	53148.00	641729.42	649051.69	705123.04	732448.32	21	210	2015
1211.00	53266.00	53762.00	641928.33	649240.79	705185.02	732478.91	21	210	2015
1212.00	53906.00	54361.00	642124.53	649436.58	705233.81	732514.40	21	210	2015
1213.00	30736.00	31214.00	642313.33	649625.47	705301.02	732587.27	23	211	2015
1214.00	31318.00	31792.00	642500.87	649813.73	705364.03	732624.77	23	211	2015
1215.00	31964.00	32464.00	642701.55	650004.70	705430.10	732679.73	23	211	2015
1216.00	32688.00	33158.00	642887.64	650207.72	705455.16	732761.21	23	211	2015
1217.00	33281.00	33774.00	643078.31	650388.07	705522.72	732800.02	23	211	2015
1218.00	33884.00	34354.00	643271.58	650596.04	705550.43	732862.58	23	211	2015
1219.00	34527.00	35029.00	643467.62	650780.64	705624.50	732916.11	23	211	2015
1220.00	35156.00	35617.00	643677.83	650982.92	705647.82	732924.36	23	211	2015
1221.00	35740.00	36224.00	643862.15	651167.95	705721.74	732977.04	23	211	2015
1222.00	36392.00	36867.00	644052.74	651367.98	705750.20	733053.00	23	211	2015
1223.00	37012.00	37525.00	644249.20	651556.09	705827.86	733110.18	23	211	2015
1224.00	37660.00	38124.00	644448.77	651748.67	705888.94	733161.80	23	211	2015
1225.00	38237.00	38733.00	644625.71	651944.68	705912.80	733230.22	23	211	2015
1226.00	38830.00	39291.00	644823.08	652141.24	705953.58	733231.22	23	211	2015
1227.00	39455.00	39959.00	645018.05	652332.86	706016.66	733329.36	23	211	2015
1228.00	40184.00	40645.00	645208.02	652527.75	705993.09	733367.62	23	211	2015
1229.00	40809.00	41313.00	645413.49	652742.42	706024.43	733391.17	23	211	2015
1230.00	41555.00	42039.00	645610.25	652958.80	706024.97	733440.74	23	211	2015
1231.00	42160.00	42651.00	645798.57	653160.01	706024.20	733498.65	23	211	2015
1232.00	48130.00	48609.00	645988.38	653361.69	706042.07	733572.28	23	211	2015
1233.00	48753.00	49238.00	646180.33	653565.79	706028.60	733617.23	23	211	2015
1234.00	49378.00	49872.00	646370.93	653775.31	706031.90	733678.22	23	211	2015
1235.01	32565.00	33033.00	646558.60	653993.56	706010.50	733739.20	75	280	2015
1236.01	35179.00	35704.00	646758.93	654188.50	706036.31	733758.83	98	301	2015
1237.00	30599.00	31079.00	646942.15	654404.33	706004.07	733847.92	25	212	2015
1238.00	31237.00	31755.00	647139.54	654611.62	706023.07	733892.92	25	212	2015
1239.00	31905.00	32362.00	647344.01	654812.73	706021.89	733908.16	25	212	2015
1240.00	32501.00	33055.00	647536.40	655024.59	706017.44	733964.55	25	212	2015
1241.00	33162.00	33629.00	647731.85	655224.22	706039.41	734003.30	25	212	2015
1242.00	33801.00	34327.00	647920.39	655432.77	706029.72	734092.58	25	212	2015
1243.00	34472.00	34960.00	648101.72	655934.90	704935.75	734149.28	25	212	2015
1244.00	35092.00	35676.00	648297.14	656135.25	704960.33	734183.20	25	212	2015
1245.00	35781.00	36275.00	648493.90	656316.72	705052.10	734268.48	25	212	2015
1246.00	36446.00	37000.00	648688.94	656519.94	705068.85	734307.84	25	212	2015
1247.00	37146.00	37629.00	648887.60	656714.11	705125.59	734347.46	25	212	2015
1248.00	37758.00	38337.00	649068.37	656901.98	705183.40	734427.11	25	212	2015
1249.00	52115.00	52607.00	649272.13	657097.33	705266.74	734457.43	30	221	2015
1250.00	51496.00	52023.00	649466.73	657293.54	705267.03	734487.55	30	221	2015
1251.00	50891.00	51381.00	649663.34	657488.65	705316.77	734552.52	30	221	2015
1252.00	50115.00	50767.00	648294.57	657677.54	705394.48	740412.40	30	221	2015
1253.00	49420.00	49985.00	648484.97	657871.36	705444.63	740482.86	30	221	2015
1254.00	48669.00	49316.00	648679.16	658062.36	705502.70	740516.77	30	221	2015
1255.00	47972.00	48561.00	648878.58	658260.23	705554.43	740553.86	30	221	2015
1256.00	47185.00	47841.00	649074.12	658447.07	705623.54	740604.17	30	221	2015
1257.00	46423.00	47009.00	649256.50	658643.10	705671.01	740670.01	30	221	2015
1258.00	45696.00	46325.00	649462.48	658843.31	705709.84	740711.57	30	221	2015
1259.00	44985.00	45579.00	649648.68	659029.03	705735.41	740767.58	30	221	2015
1260.00	44200.00	44864.00	649842.39	659216.20	705802.39	740819.97	30	221	2015
1261.00	43475.00	44057.00	650041.32	659412.43	705882.00	740851.91	30	221	2015
1262.00	42733.00	43366.00	650220.10	659602.71	705938.12	740943.48	30	221	2015
1263.00	41969.00	42570.00	650422.57	659803.37	705950.22	740983.50	30	221	2015
1264.00	41159.00	41830.00	650609.86	659992.91	706012.50	741045.99	30	221	2015
1265.00	40382.00	40995.00	650797.66	660224.10	706024.66	741097.59	30	221	2015
1266.00	39617.00	40258.00	651006.76	660395.75	706025.24	741125.44	30	221	2015
1267.00	41947.00	42576.00	651198.27	660608.35	706044.18	741166.93	28	219	2015
1268.00	41205.00	41821.00	651381.04	660823.16	706024.58	741215.97	28	219	2015
1269.00	40440.00	41087.00	651576.77	661026.62	706025.60	741294.92	28	219	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1270.00	39677.00	40303.00	651779.45	661243.20	706007.56	741319.26	28	219	2015
1271.00	38915.00	39544.00	651966.33	661454.33	706008.73	741397.49	28	219	2015
1272.00	38193.00	38810.00	652159.73	661652.96	706024.19	741446.03	28	219	2015
1273.00	37456.00	38084.00	652347.12	661867.12	705996.12	741499.63	28	219	2015
1274.00	36712.00	37333.00	652544.91	662068.49	705993.36	741549.27	28	219	2015
1275.00	28889.00	29515.00	652737.35	662270.69	706028.32	741577.75	33	223	2015
1276.00	29604.00	30211.00	652929.05	662481.46	706001.57	741634.12	33	223	2015
1277.00	30336.00	30991.00	653120.60	662680.31	706028.02	741712.14	33	223	2015
1278.00	31105.00	31724.00	653318.31	662903.42	705993.57	741740.15	33	223	2015
1279.00	31830.00	32467.00	653517.84	663098.73	706006.02	741806.15	33	223	2015
1280.00	32552.00	33172.00	653703.50	663598.27	704909.59	741831.95	33	223	2015
1281.00	33314.00	34001.00	653900.17	663796.86	704972.13	741885.34	33	223	2015
1282.00	34122.00	34746.00	654086.34	663982.26	705039.52	741969.65	33	223	2015
1283.00	34851.00	35504.00	654285.45	664186.41	705039.77	742014.12	33	223	2015
1284.00	35603.00	36237.00	654468.33	664376.65	705127.64	742074.77	33	223	2015
1285.00	36366.00	37033.00	654662.43	664574.82	705153.27	742134.88	33	223	2015
1286.00	37154.00	37789.00	654858.05	664761.01	705237.21	742163.36	33	223	2015
1287.00	37886.00	38523.00	655048.68	664944.67	705284.63	742215.72	33	223	2015
1288.00	38610.00	39231.00	655251.79	665139.60	705352.01	742243.62	33	223	2015
1289.00	39358.00	39998.00	655445.50	665341.85	705372.49	742291.23	33	223	2015
1290.00	40101.00	40713.00	655631.21	665541.51	705426.10	742393.69	33	223	2015
1291.00	40808.00	41472.00	655833.41	665727.85	705488.28	742417.81	33	223	2015
1292.00	66816.00	67541.00	656011.79	665925.69	705507.33	742483.69	30	221	2015
1293.00	66086.00	66704.00	656224.33	666114.36	705586.64	742500.89	30	221	2015
1294.00	65285.00	65977.00	656409.73	666322.36	705614.10	742555.16	30	221	2015
1295.00	64547.00	65164.00	656602.66	666506.34	705681.28	742631.06	30	221	2015
1296.00	63744.00	64445.00	656777.32	666699.68	705741.48	742702.47	30	221	2015
1297.00	62996.00	63594.00	657166.68	666886.87	705774.15	742714.87	30	221	2015
1298.00	62210.00	62880.00	657196.25	667082.00	705843.61	742781.20	30	221	2015
1299.00	61497.00	62094.00	657379.52	667272.46	705900.95	742824.60	30	221	2015
1300.00	60676.00	61360.00	657572.96	667457.15	705972.59	742873.08	30	221	2015
1301.00	59926.00	60536.00	657767.07	667656.69	706029.68	742932.59	30	221	2015
1302.00	59129.00	59794.00	657960.22	667869.46	706026.42	742978.42	30	221	2015
1303.00	58403.00	59020.00	658145.82	668074.51	706006.18	743069.63	30	221	2015
1304.00	57547.00	58275.00	658350.56	668277.90	706036.50	743074.89	30	221	2015
1305.00	56781.00	57400.00	658532.40	668485.74	706026.51	743154.40	30	221	2015
1306.00	47535.00	48177.00	658728.67	668685.24	706042.79	743197.42	33	223	2015
1307.00	48312.00	48987.00	658922.93	668904.57	706015.03	743260.02	33	223	2015
1308.00	49075.00	49708.00	659116.28	669106.75	706017.34	743272.24	33	223	2015
1309.00	49806.00	50468.00	659295.54	669310.85	706014.53	743371.47	33	223	2015
1310.00	50564.00	51201.00	659500.78	669522.98	706002.73	743376.07	33	223	2015
1311.00	51318.00	51996.00	659695.91	669727.28	706031.13	743458.27	33	223	2015
1312.00	52093.00	52744.00	659881.95	669924.84	706039.28	743489.51	33	223	2015
1313.00	52861.00	53520.00	660081.14	670136.66	705997.72	743556.27	33	223	2015
1314.00	53623.00	54277.00	660287.12	670346.35	706022.80	743593.38	33	223	2015
1315.00	54406.00	55088.00	660479.93	670544.71	706027.93	743652.74	33	223	2015
1316.00	55184.00	55818.00	660643.44	670766.08	706023.01	743714.63	33	223	2015
1317.00	55916.00	56578.00	660855.30	670981.82	705992.47	743752.14	33	223	2015
1318.00	56722.00	57370.00	661051.52	671454.58	704964.93	743816.58	33	223	2015
1319.00	57502.00	58186.00	661240.09	671652.81	705018.98	743888.38	33	223	2015
1320.00	58301.00	58956.00	661440.58	671854.23	705036.00	743911.84	33	223	2015
1321.00	59071.00	59758.00	661625.80	672034.33	705115.80	743974.12	33	223	2015
1322.00	30815.00	31520.00	661831.47	672240.91	705129.17	743999.13	27	218	2015
1322.01	30815.00	31520.00	661831.47	672240.91	705129.17	743999.13	27	218	2015
1323.00	31656.00	32362.00	662010.65	672423.69	705208.35	744100.84	27	218	2015
1324.00	32555.00	33241.00	662197.17	672624.36	705245.46	744154.23	27	218	2015
1325.00	33413.00	34116.00	662404.19	672818.20	705285.41	744157.50	27	218	2015
1326.00	34260.00	34945.00	662591.02	673011.98	705351.55	744243.56	27	218	2015
1327.00	35060.00	35781.00	662776.27	673195.53	705429.35	744310.98	27	218	2015
1328.00	35937.00	36608.00	662977.35	673389.63	705484.49	744348.58	27	218	2015
1329.00	36778.00	37463.00	663164.63	673583.62	705538.55	744412.43	27	218	2015
1330.00	37579.00	38261.00	663357.20	673788.06	705548.78	744460.14	27	218	2015
1331.00	38375.00	39084.00	663562.92	673974.96	705610.81	744469.15	27	218	2015
1332.00	39259.00	39938.00	663747.83	674169.22	705665.06	744561.38	27	218	2015
1333.00	40086.00	40787.00	663952.18	674357.22	705727.89	744572.41	27	218	2015
1334.00	29905.00	30582.00	664146.02	674540.90	705802.54	744631.56	28	219	2015
1335.00	30713.00	31412.00	664328.97	674738.27	705844.42	744687.32	28	219	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1336.00	31545.00	32215.00	664515.38	674941.23	705872.36	744765.09	28	219	2015
1337.00	32371.00	33104.00	664707.41	675129.74	705930.47	744826.60	28	219	2015
1338.00	33232.00	33911.00	664906.60	675328.26	705993.22	744852.82	28	219	2015
1339.00	34051.00	34745.00	665097.72	675521.54	706028.61	744931.53	28	219	2015
1340.00	34880.00	35559.00	665281.29	675733.36	706011.36	744984.86	28	219	2015
1341.00	35709.00	36421.00	665495.41	675939.92	706005.71	745004.56	28	219	2015
1342.00	44705.00	45409.00	665677.82	676149.09	706002.67	745088.47	49	249	2015
1343.00	45562.00	46313.00	665876.84	676346.09	706039.36	745117.44	49	249	2015
1344.00	46632.00	47319.00	666064.95	676557.31	706021.38	745187.68	49	249	2015
1345.00	47463.00	48218.00	666265.54	676757.54	706004.26	745226.94	49	249	2015
1346.00	48323.00	49002.00	666449.76	676974.85	706010.76	745282.09	49	249	2015
1347.00	49156.00	49879.00	666641.40	677182.89	706002.34	745344.34	49	249	2015
1348.00	50000.00	50688.00	666850.44	677386.33	706040.52	745354.18	49	249	2015
1349.00	50860.00	51593.00	667031.10	677582.26	706016.78	745401.80	49	249	2015
1350.00	51702.00	52382.00	667228.47	677805.07	706002.65	745490.00	49	249	2015
1351.00	52541.00	53292.00	667419.13	678001.96	706039.54	745530.08	49	249	2015
1352.00	53422.00	54108.00	667610.05	678211.13	706032.55	745588.81	49	249	2015
1353.00	54259.00	54993.00	667798.61	678416.22	706017.77	745652.53	49	249	2015
1354.00	55116.00	55787.00	668012.13	678625.26	706034.41	745670.76	49	249	2015
1355.00	55953.00	56928.00	664567.04	679121.67	704946.24	759261.35	49	249	2015
1356.00	54219.00	55221.00	664766.27	679310.92	705004.90	759315.44	52	252	2015
1357.00	55329.00	56248.00	664955.80	679510.87	705056.45	759379.58	52	252	2015
1358.00	56410.00	57357.00	665144.18	679704.98	705111.58	759431.33	52	252	2015
1358.10	44573.00	44727.00	660370.85	662625.73	768852.73	777273.93	43	244	2015
1359.00	57490.00	58420.00	665335.83	679907.65	705114.60	759493.07	52	252	2015
1359.10	44862.00	44999.00	660569.91	662822.48	768902.76	777317.71	43	244	2015
1360.00	58587.00	59572.00	665544.03	680097.87	705182.49	759528.60	52	252	2015
1360.10	45121.00	45279.00	660763.79	663003.56	768959.86	777371.20	43	244	2015
1361.00	59704.00	60624.00	665725.45	680290.73	705228.91	759593.47	52	252	2015
1361.10	34052.00	34214.00	660941.70	663210.03	768994.05	777467.05	44	245	2015
1362.00	60781.00	61757.00	665936.17	680483.92	705284.02	759603.43	52	252	2015
1362.10	34349.00	34491.00	661141.98	663400.37	769020.66	777460.62	44	245	2015
1363.00	61881.00	62812.00	666135.55	680673.64	705320.06	759653.51	52	252	2015
1363.10	34625.00	34779.00	661333.73	663591.41	769090.71	777531.39	44	245	2015
1364.01	45930.00	46879.00	666293.67	680876.35	705392.89	759740.39	71	273	2015
1364.10	34924.00	35067.00	661521.57	663784.05	769166.91	777594.56	44	245	2015
1365.00	47018.00	47984.00	666504.67	681057.70	705471.32	759786.46	71	273	2015
1365.10	35240.00	35388.00	661713.98	663981.43	769190.00	777646.07	44	245	2015
1366.00	48122.00	49061.00	666698.18	681255.46	705494.51	759814.10	71	273	2015
1366.10	35554.00	35689.00	661917.25	664177.31	769239.66	777673.48	44	245	2015
1367.00	49205.00	50152.00	666889.36	681446.26	705554.11	759896.02	71	273	2015
1367.10	35842.00	35990.00	662105.75	664356.50	769332.32	777731.92	44	245	2015
1368.00	50299.00	51249.00	667094.87	681633.93	705616.55	759931.33	71	273	2015
1368.10	36141.00	36283.00	662291.58	664552.20	769383.49	777814.67	44	245	2015
1369.00	58215.00	59175.00	667276.84	681825.31	705672.40	760004.77	71	273	2015
1369.10	36410.00	36571.00	662493.71	664748.74	769424.70	777866.29	44	245	2015
1370.00	60530.00	61474.00	667478.28	682029.93	705712.27	760034.88	41	236	2015
1370.10	36702.00	36843.00	662674.85	664945.42	769475.53	777919.33	44	245	2015
1371.00	59474.00	60409.00	667668.68	682224.88	705740.98	760062.82	41	236	2015
1371.10	36990.00	37144.00	662880.43	665142.52	769500.20	777961.19	44	245	2015
1372.00	58357.00	59313.00	667865.56	682410.06	705814.58	760122.83	41	236	2015
1372.10	37286.00	37426.00	663068.89	665322.74	769582.39	777993.54	44	245	2015
1373.00	56757.00	58021.00	663269.67	682610.94	705843.38	778051.16	41	236	2015
1374.00	30995.00	32378.00	663459.13	682800.93	705905.37	778111.50	29	220	2015
1375.00	32516.00	33739.00	663653.57	682995.87	705962.40	778169.12	29	220	2015
1376.00	33865.00	35224.00	663843.77	683185.25	706028.94	778215.60	29	220	2015
1377.00	55302.00	56581.00	664025.23	683398.86	706012.85	778290.79	41	236	2015
1378.00	53896.00	55156.00	664231.28	683595.52	706033.90	778320.15	41	236	2015
1379.00	52444.00	53731.00	664425.69	683794.19	706046.44	778368.68	41	236	2015
1380.00	51009.00	52282.00	664621.36	684007.06	706039.81	778404.24	41	236	2015
1381.00	49551.00	50850.00	664804.40	684214.50	706032.97	778495.91	41	236	2015
1382.00	41378.00	42659.00	665010.61	684435.44	705994.64	778502.60	41	236	2015
1383.00	39910.00	41161.00	665203.76	684638.22	706011.08	778578.90	41	236	2015
1384.00	38332.00	39609.00	665391.12	684849.22	706027.69	778618.60	35	224	2015
1385.00	39786.00	41052.00	665581.94	685053.42	706004.74	778677.94	35	224	2015
1386.00	41203.00	42472.00	665768.07	685255.37	705998.75	778730.37	35	224	2015
1387.00	42623.00	43874.00	665963.80	685456.17	706036.04	778803.84	35	224	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1388.00	35485.00	35639.00	683393.68	685669.31	706014.55	714507.53	35	224	2015
1388.01	31550.00	32654.00	666162.51	683411.56	714456.26	778826.01	41	236	2015
1389.00	35945.00	36101.00	683591.41	685867.00	706041.21	714552.72	35	224	2015
1389.01	33161.00	34282.00	666352.04	683599.05	714520.78	778914.43	41	236	2015
1390.00	36433.00	36593.00	683784.58	686068.82	706007.23	714597.15	35	224	2015
1390.01	34441.00	35557.00	666543.74	683798.19	714550.49	778959.20	41	236	2015
1391.00	36906.00	37064.00	683978.97	686282.09	706044.10	714655.40	35	224	2015
1391.01	35834.00	36975.00	666735.70	683996.17	714591.13	779010.26	41	236	2015
1392.00	37387.00	37559.00	684176.12	686787.19	704918.63	714691.36	35	224	2015
1392.01	37102.00	38213.00	666943.89	684174.90	714677.12	779025.50	41	236	2015
1393.00	37874.00	38040.00	684366.74	686994.20	704940.52	714744.47	35	224	2015
1393.01	38486.00	39633.00	667122.73	684369.72	714744.75	779108.41	41	236	2015
1394.00	43979.00	45271.00	667320.07	687168.11	705046.72	779133.11	35	224	2015
1395.00	52018.00	53332.00	667507.50	687382.49	705048.72	779223.21	35	224	2015
1396.00	53484.00	54822.00	667704.78	687559.61	705145.41	779262.93	35	224	2015
1397.00	54956.00	56258.00	667905.33	687754.85	705171.00	779290.03	35	224	2015
1398.00	56437.00	57752.00	668102.73	687947.86	705251.41	779342.95	35	224	2015
1399.00	57887.00	59174.00	668290.18	688136.21	705280.49	779381.13	35	224	2015
1400.00	59356.00	60653.00	668489.15	688336.54	705341.79	779437.70	35	224	2015
1401.00	60786.00	62076.00	668679.81	688532.53	705382.92	779494.58	35	224	2015
1402.00	62233.00	63580.00	668874.83	688731.02	705417.09	779532.04	35	224	2015
1403.00	33621.00	34915.00	669067.85	688922.04	705488.78	779589.45	37	225	2015
1404.00	33927.00	35257.00	669250.38	689113.57	705540.24	779684.97	35	224	2015
1405.00	32436.00	33776.00	669444.39	689296.25	705614.46	779709.16	35	224	2015
1406.00	52819.00	54134.00	669642.70	689492.46	705660.08	779768.83	32	222	2015
1407.00	32193.00	33529.00	669825.97	689694.27	705687.82	779846.19	37	225	2015
1408.00	30761.00	32041.00	670018.34	689883.24	705747.25	779882.36	37	225	2015
1409.00	34987.00	36300.00	670222.27	690077.48	705809.27	779920.18	37	225	2015
1410.00	36411.00	37686.00	670413.14	690277.08	705838.48	779955.03	37	225	2015
1411.00	37826.00	39142.00	670604.28	690465.07	705916.92	780025.65	37	225	2015
1412.00	39263.00	40546.00	670798.41	690662.03	705945.10	780055.07	37	225	2015
1413.00	40679.00	41988.00	670996.08	690846.25	705992.69	780123.86	37	225	2015
1414.00	45499.00	46744.00	671250.20	691052.16	706040.68	780145.76	43	244	2015
1415.00	37862.00	39107.00	671368.73	691251.70	706025.49	780247.02	44	245	2015
1416.00	39258.00	40605.00	671572.74	691465.83	706004.93	780260.64	44	245	2015
1417.00	40743.00	42031.00	671767.81	691666.09	706040.83	780326.89	44	245	2015
1418.00	42155.00	43543.00	671963.56	691869.34	706031.52	780368.85	44	245	2015
1419.00	43668.00	44864.00	672143.34	692084.94	706041.06	780464.82	44	245	2015
1420.00	32620.00	33977.00	672344.27	692302.41	705999.19	780489.79	40	234	2015
1421.00	34087.00	35383.00	672542.23	692508.69	705995.02	780523.76	40	234	2015
1421.01	34087.00	35383.00	672542.23	692508.69	705995.02	780523.76	40	234	2015
1422.00	35555.00	36533.00	672736.79	686876.24	727791.41	780574.88	40	234	2015
1422.01	43257.00	43654.00	686866.87	692712.15	706020.13	727831.52	40	234	2015
1423.00	36765.00	37683.00	672922.14	687051.69	727893.58	780641.72	40	234	2015
1423.01	42635.00	43000.00	687051.63	692911.99	706024.40	727915.29	40	234	2015
1424.00	37864.00	39202.00	673110.10	693127.65	706022.51	780704.18	40	234	2015
1425.00	39326.00	40779.00	670728.63	693329.50	706010.06	790385.00	40	234	2015
1426.00	40945.00	42441.00	670922.77	693538.04	706027.57	790446.54	40	234	2015
1427.00	51641.00	53198.00	671111.97	693708.31	705998.55	790499.78	44	245	2015
1428.00	53321.00	54786.00	671292.69	693958.35	706000.46	790591.78	44	245	2015
1428.01	53321.00	54786.00	671292.69	693958.35	706000.46	790591.78	44	245	2015
1429.00	54930.00	56462.00	671491.95	694153.31	706041.34	790632.48	44	245	2015
1430.00	56581.00	58051.00	671683.22	694649.31	704974.50	790687.11	44	245	2015
1431.00	58174.00	59672.00	671884.62	694848.19	705007.88	790726.79	44	245	2015
1432.00	59803.00	61253.00	672075.53	695053.50	705032.10	790786.73	44	245	2015
1433.00	61374.00	62877.00	672272.20	695230.52	705117.10	790807.95	44	245	2015
1434.00	63004.00	63844.00	672457.69	686093.30	739977.42	790886.48	44	245	2015
1434.01	43109.00	43768.00	686081.81	695415.99	705168.72	740026.87	46	247	2015
1435.00	49553.00	50128.00	686778.22	695614.15	705224.02	738200.97	46	247	2015
1435.01	33210.00	34099.00	672649.24	686783.35	738185.04	790956.03	48	248	2015
1436.00	31533.00	33099.00	672854.60	695815.41	705231.92	790962.73	48	248	2015
1437.00	29926.00	31381.00	673035.79	695999.46	705328.18	791042.62	48	248	2015
1438.00	34587.00	35806.00	673238.93	693061.86	717068.06	791061.51	46	247	2015
1438.01	42823.00	43008.00	693055.70	696206.71	705369.88	717077.42	46	247	2015
1439.00	36037.00	37465.00	673418.83	693265.99	717077.72	791159.27	46	247	2015
1439.01	42446.00	42661.00	693248.99	696394.39	705417.37	717139.64	46	247	2015
1440.00	37581.00	39024.00	673616.47	696585.94	705490.92	791200.39	46	247	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1441.00	39119.00	40786.00	673808.07	696774.50	705538.82	791247.30	46	247	2015
1442.00	40921.00	42336.00	674010.82	696979.67	705550.75	791293.73	46	247	2015
1443.00	50249.00	51954.00	674194.56	697159.68	705642.50	791350.96	46	247	2015
1444.00	52088.00	52978.00	674399.16	688013.61	740554.96	791374.67	46	247	2015
1444.01	53559.00	54178.00	688004.87	697350.97	705699.07	740572.28	46	247	2015
1445.00	54321.00	55989.00	674595.38	697541.99	705747.05	791424.54	46	247	2015
1446.00	56111.00	57550.00	674773.27	697743.52	705777.61	791513.09	46	247	2015
1447.00	57696.00	57926.00	694795.18	697936.91	705816.21	717570.89	46	247	2015
1447.01	58725.00	60174.00	674967.66	694808.85	717517.15	791560.02	46	247	2015
1448.00	60312.00	61742.00	675164.15	698133.57	705876.41	791615.98	46	247	2015
1449.00	61895.00	62728.00	686882.56	698312.52	705960.32	748629.47	46	247	2015
1449.01	44485.00	45214.00	675351.99	686909.21	748551.39	791664.16	57	265	2015
1450.00	30448.00	31918.00	675556.99	694870.75	719588.67	791690.19	55	263	2015
1450.01	39027.00	39296.00	694854.81	698516.87	705973.78	719633.52	55	263	2015
1451.00	32093.00	33275.00	675751.50	695069.88	719639.52	791750.12	55	263	2015
1451.01	38593.00	38810.00	695058.31	698706.13	705997.84	719668.72	55	263	2015
1451.02	32044.00	33275.00	675751.50	696471.37	716699.98	791750.12	55	263	2015
1452.00	33403.00	35108.00	675939.67	698915.45	706043.60	791801.25	55	263	2015
1453.00	35215.00	36627.00	676132.52	699138.58	705994.28	791858.25	55	263	2015
1454.00	36776.00	38478.00	676319.66	699336.57	705996.71	791933.02	55	263	2015
1455.00	39392.00	40833.00	676528.04	699531.12	706035.74	791935.08	55	263	2015
1456.00	40964.00	42657.00	676703.36	699748.36	706016.55	792027.34	55	263	2015
1457.00	42777.00	43219.00	692592.83	699947.71	706051.89	733495.02	55	263	2015
1457.01	62089.00	63052.00	676926.39	692599.65	733482.52	792048.12	57	265	2015
1458.00	51202.00	52113.00	677108.26	690198.22	743210.48	792109.77	57	265	2015
1458.01	36522.00	37154.00	690194.28	700160.93	706025.03	743232.86	90	290	2015
1459.00	52243.00	53697.00	677294.77	700354.93	706045.91	792138.67	57	265	2015
1460.00	53847.00	55473.00	677488.60	700571.25	706033.09	792210.56	57	265	2015
1461.00	55600.00	57022.00	677677.44	700768.32	706030.24	792285.97	57	265	2015
1462.00	57211.00	58765.00	677878.92	700990.64	706003.90	792302.24	57	265	2015
1463.00	58915.00	60342.00	678076.34	701199.13	705997.62	792359.40	57	265	2015
1464.00	33616.00	34433.00	678259.28	691369.61	743480.64	792396.29	57	265	2015
1464.01	34787.00	35378.00	691358.58	700675.87	708753.99	743529.80	57	265	2015
1464.02	51912.00	51950.00	700670.04	701390.28	706027.01	708779.32	68	271	2015
1465.00	35634.00	37243.00	678445.33	700872.42	708770.45	792498.48	57	265	2015
1465.01	52488.00	52525.00	700873.86	701610.91	706001.81	708795.31	68	271	2015
1466.00	37388.00	38213.00	678631.12	691756.27	743591.28	792547.00	57	265	2015
1466.01	38523.00	39117.00	691742.50	701072.15	708820.28	743634.48	57	265	2015
1466.02	47012.00	47056.00	701045.94	701817.67	706020.97	708910.97	87	288	2015
1467.00	39354.00	40940.00	678834.77	701256.23	708873.17	792565.39	57	265	2015
1467.01	46751.00	46830.00	701246.86	702317.83	704932.08	708937.60	87	288	2015
1468.00	41074.00	42563.00	679039.78	702509.47	704980.03	792619.61	57	265	2015
1469.00	42758.00	44392.00	679222.73	702698.63	705039.20	792683.48	57	265	2015
1470.00	60466.00	62004.00	679424.13	702886.54	705114.01	792714.06	57	265	2015
1471.00	32985.00	34617.00	679607.04	703087.66	705145.41	792798.04	73	277	2015
1472.00	34761.00	36275.00	679813.85	703276.99	705210.53	792823.94	73	277	2015
1473.00	36469.00	37920.00	679992.82	702427.81	709183.73	792904.70	73	277	2015
1473.02	54530.00	54588.00	702401.24	703471.44	705270.56	709248.99	100	304	2015
1474.00	38098.00	39538.00	680195.71	702594.34	709287.39	792935.62	73	277	2015
1474.03	55472.00	55549.00	702596.71	703670.04	705293.09	709290.60	100	304	2015
1475.00	39675.00	40881.00	680386.59	698656.58	724775.87	793000.47	73	277	2015
1475.02	54021.00	54370.00	698650.91	703861.76	705360.58	724825.82	100	304	2015
1476.00	41006.00	42181.00	680571.77	698855.58	724786.20	793067.61	73	277	2015
1476.02	55686.00	56016.00	698836.85	704052.61	705399.73	724861.35	100	304	2015
1477.00	42335.00	43805.00	680768.12	702666.42	711347.40	793084.49	73	277	2015
1477.02	55088.00	55179.00	702652.33	704247.68	705436.17	711399.62	100	304	2015
1478.00	43973.00	44731.00	690953.36	702866.17	711378.67	755861.52	73	277	2015
1478.01	51093.00	51738.00	680973.55	690965.12	755819.47	793154.07	73	277	2015
1478.02	41102.00	41190.00	702863.39	704432.88	705490.21	711403.58	96	298	2015
1479.00	51939.00	53447.00	681164.06	703585.81	709489.35	793184.45	73	277	2015
1479.01	40846.00	40918.00	703580.54	704628.40	705570.39	709540.99	96	298	2015
1480.00	53546.00	54951.00	681360.91	703249.45	711473.12	793233.47	73	277	2015
1480.01	40045.00	40127.00	703237.59	704825.33	705599.76	711517.02	96	298	2015
1481.00	55123.00	56382.00	681533.84	700345.60	723125.27	793333.66	73	277	2015
1481.01	39585.00	39916.00	700330.22	705033.20	705629.58	723182.88	96	298	2015
1482.00	56519.00	57757.00	681737.26	700523.82	723209.47	793354.34	73	277	2015
1482.01	38994.00	39249.00	700516.51	705204.80	705744.08	723255.38	96	298	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1483.00	57906.00	59148.00	681915.06	700211.20	725157.70	793437.46	73	277	2015
1483.01	38544.00	38892.00	700190.93	705413.83	705764.82	725233.29	96	298	2015
1484.00	59267.00	60460.00	682120.08	700401.58	725225.89	793453.19	73	277	2015
1484.01	38026.00	38301.00	700396.64	705640.51	705851.92	725269.87	96	298	2015
1485.00	60604.00	61766.00	682310.02	700600.36	725260.77	793550.13	73	277	2015
1485.01	37551.00	37919.00	700583.03	705802.16	705845.63	725330.82	96	298	2015
1486.00	61889.00	63073.00	682508.78	700789.08	725308.56	793598.58	73	277	2015
1486.01	36973.00	37275.00	700776.04	705987.11	705901.29	725377.25	96	298	2015
1487.00	44369.00	45925.00	682684.36	705127.28	709929.03	793653.70	81	283	2015
1487.01	36754.00	36834.00	705119.10	706176.99	705985.75	709959.38	96	298	2015
1488.00	46070.00	47541.00	682892.80	705321.27	709974.46	793688.88	81	283	2015
1488.01	36348.00	36406.00	705311.98	706372.23	706006.90	710025.22	96	298	2015
1489.00	47666.00	49121.00	683079.94	704997.42	711976.79	793716.81	81	283	2015
1489.01	36073.00	36198.00	704981.17	706582.11	706023.70	712026.19	96	298	2015
1490.00	49245.00	50645.00	683285.81	705175.20	711996.62	793769.71	81	283	2015
1490.01	35729.00	35812.00	705170.28	706785.09	706033.36	712063.96	96	298	2015
1491.00	50765.00	52201.00	683465.74	705382.57	712081.96	793851.30	81	283	2015
1491.01	35480.00	35607.00	705371.15	706997.65	706034.12	712099.18	96	298	2015
1492.00	52334.00	53778.00	683668.76	705571.01	712111.20	793886.61	81	283	2015
1492.01	35136.00	35224.00	705549.65	707205.53	705999.28	712172.52	96	298	2015
1493.00	30826.00	31632.00	683856.59	696437.87	746956.40	793957.84	64	269	2015
1493.01	55572.00	56160.00	696430.60	705761.04	712187.08	746982.25	81	283	2015
1493.02	46365.00	46470.00	705743.51	707401.81	706047.08	712232.53	87	288	2015
1494.00	53916.00	55397.00	684051.57	705966.96	712194.48	793987.52	81	283	2015
1494.01	46122.00	46235.00	705952.61	707628.85	706007.07	712240.21	87	288	2015
1495.00	34409.00	35367.00	685438.39	700980.41	731567.73	789613.12	82	284	2015
1495.01	35471.00	35705.00	702528.72	706131.91	712295.46	725812.54	82	284	2015
1495.02	45748.00	45848.00	706143.43	707829.20	706005.96	712290.06	87	288	2015
1495.03	50847.00	50927.00	684243.93	685449.41	789533.18	794063.61	89	289	2015
1495.04	37691.00	37790.00	700958.27	702532.00	725775.43	731643.78	90	290	2015
1496.00	35816.00	36042.00	702696.13	706337.88	712345.01	725876.84	82	284	2015
1496.01	36136.00	36931.00	688722.17	701175.93	731632.50	778072.98	82	284	2015
1496.02	45505.00	45621.00	706339.05	708031.80	706016.76	712343.34	87	288	2015
1496.03	50043.00	50330.00	684428.94	688743.58	777997.37	794121.98	89	289	2015
1496.04	35862.00	35964.00	701157.18	702715.42	725883.93	731677.39	90	290	2015
1497.00	37042.00	37836.00	689454.87	701344.59	731702.83	776187.42	82	284	2015
1497.01	37949.00	38304.00	702892.30	708234.43	706020.87	725965.47	82	284	2015
1497.02	49605.00	49928.00	684632.88	689446.86	776121.57	794151.83	89	289	2015
1497.03	35323.00	35421.00	701348.83	702907.70	725925.39	731717.14	90	290	2015
1498.00	38411.00	38733.00	703088.27	708464.98	705961.95	726005.30	82	284	2015
1498.01	38835.00	39625.00	689632.83	701550.09	731750.58	776215.15	82	284	2015
1498.02	49020.00	49339.00	684827.16	689654.39	776156.31	794187.36	89	289	2015
1498.03	34692.00	34805.00	701531.29	703104.22	725928.86	731811.40	90	290	2015
1499.00	34173.00	34385.00	703282.95	706899.30	712507.73	726014.01	64	269	2015
1499.01	39718.00	40493.00	689848.16	701737.57	731814.03	776296.43	82	284	2015
1499.02	40839.00	40950.00	706916.43	708640.96	706044.23	712537.84	82	284	2015
1499.03	48592.00	48905.00	685002.84	689833.25	776258.36	794277.83	89	289	2015
1499.04	33674.00	33769.00	701734.96	703309.83	726006.69	731862.49	90	290	2015
1500.00	31749.00	32514.00	685205.73	695737.86	755013.11	794330.36	64	269	2015
1500.01	32886.00	33329.00	695720.07	701944.04	731835.65	755076.63	64	269	2015
1500.02	33705.00	34005.00	703459.90	707631.12	710576.22	726080.35	64	269	2015
1500.03	41017.00	41097.00	707610.24	708847.07	706034.89	710657.89	82	284	2015
1500.04	33323.00	33425.00	701929.12	703497.52	726044.22	731889.08	90	290	2015
1501.00	41818.00	42078.00	705189.16	709075.30	705994.51	720477.15	48	248	2015
1501.10	38110.00	39022.00	685389.25	700092.56	739525.53	794397.12	85	286	2015
1502.00	38845.00	39068.00	705395.79	709273.49	706006.69	720492.42	87	288	2015
1502.10	39107.00	40084.00	685595.81	700289.11	739566.92	794421.15	85	286	2015
1503.00	39208.00	39465.00	705584.98	709477.17	706048.47	720558.49	87	288	2015
1503.10	40200.00	41144.00	685787.36	700475.35	739635.80	794468.90	85	286	2015
1504.00	39628.00	39896.00	705781.14	709983.00	704910.71	720601.97	87	288	2015
1504.10	41237.00	42209.00	685984.73	700668.61	739708.03	794504.28	85	286	2015
1505.00	40060.00	40323.00	705968.86	710177.62	704975.14	720671.87	87	288	2015
1505.10	42319.00	43251.00	686171.11	700853.02	739770.51	794573.12	85	286	2015
1506.00	40476.00	40728.00	706159.40	710369.53	705029.60	720727.78	87	288	2015
1506.10	43349.00	44327.00	686367.49	701039.52	739823.09	794642.36	85	286	2015
1507.00	40864.00	41151.00	706359.03	710568.41	705076.68	720750.96	87	288	2015
1507.10	44477.00	45426.00	686555.50	701232.16	739869.78	794695.16	85	286	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1508.00	41279.00	41562.00	706555.96	710758.83	705123.80	720811.11	87	288	2015
1508.10	61875.00	62565.00	686747.89	697268.91	755459.43	794755.47	62	268	2015
1508.11	45646.00	45933.00	697275.53	701427.25	739890.04	755473.89	85	286	2015
1509.00	41727.00	41987.00	706754.87	710952.00	705180.13	720869.41	87	288	2015
1509.10	62673.00	63448.00	686941.91	697991.31	753571.54	794805.64	62	268	2015
1509.11	46254.00	46487.00	698000.79	701641.45	739920.47	753511.11	85	286	2015
1510.00	42131.00	42391.00	706941.86	711146.08	705214.14	720905.29	87	288	2015
1510.10	60981.00	61729.00	687142.07	698189.76	753597.31	794833.86	62	268	2015
1510.11	36194.00	36389.00	698164.86	701832.80	739972.08	753674.96	94	295	2015
1511.00	42549.00	42844.00	707122.06	711346.34	705266.93	720986.20	87	288	2015
1511.10	60119.00	60826.00	687321.22	697863.31	755594.35	794907.54	62	268	2015
1511.11	36789.00	37009.00	697847.95	702018.69	740061.34	755651.14	94	295	2015
1512.00	42991.00	43280.00	707326.79	711528.75	705328.14	721031.75	87	288	2015
1512.10	59306.00	60030.00	687529.00	698568.09	753718.03	794929.38	62	268	2015
1512.11	35904.00	36103.00	698546.49	702213.37	740137.74	753789.67	94	295	2015
1513.00	50474.00	50723.00	707546.91	711717.40	705390.78	721087.88	37	225	2015
1513.10	58481.00	59174.00	687855.65	698239.78	755683.07	794477.53	62	268	2015
1513.11	35316.00	35493.00	698230.97	701365.39	744041.50	755736.73	94	295	2015
1514.00	50900.00	51164.00	707715.26	711905.04	705450.49	721102.91	37	225	2015
1514.10	57675.00	58358.00	688371.05	698439.52	755733.63	793357.91	62	268	2015
1514.11	34994.00	35181.00	698423.07	701574.50	744042.47	755822.43	94	295	2015
1515.00	51269.00	51513.00	707929.23	712118.80	705460.74	721176.11	37	225	2015
1515.10	56899.00	57540.00	688700.06	698109.33	757728.64	792855.89	62	268	2015
1515.11	34196.00	34410.00	698104.31	701755.82	744131.96	757768.07	94	295	2015
1516.00	51630.00	51891.00	708111.23	712306.21	705547.11	721190.19	37	225	2015
1516.10	56125.00	56807.00	688954.55	698817.14	755875.66	792711.97	62	268	2015
1516.11	33631.00	33827.00	698803.64	701886.35	744175.59	755900.84	94	295	2015
1517.00	52006.00	52256.00	708296.84	712506.99	705588.81	721262.80	37	225	2015
1517.10	55348.00	55993.00	689146.93	699020.06	755888.28	792733.68	62	268	2015
1517.11	53875.00	54061.00	699003.60	702081.83	744204.47	755944.28	93	293	2015
1518.00	52372.00	52635.00	708478.58	712688.93	705634.91	721335.49	37	225	2015
1518.10	54582.00	55202.00	689751.94	699203.51	755972.95	791274.35	62	268	2015
1518.11	53106.00	53293.00	699197.72	702418.22	744285.47	756021.87	93	293	2015
1519.00	52759.00	53009.00	708684.04	712894.30	705679.85	721369.70	37	225	2015
1519.10	53612.00	54440.00	690043.73	702526.38	744344.47	790942.19	62	268	2015
1520.00	53135.00	53410.00	708877.04	713081.77	705723.14	721409.38	37	225	2015
1520.10	50259.00	50804.00	690241.61	698552.38	759947.42	790986.98	62	268	2015
1520.11	53231.00	53515.00	698544.77	702735.28	744357.50	759991.84	62	268	2015
1521.00	53511.00	53759.00	709066.97	713266.65	705788.98	721499.88	37	225	2015
1521.10	36839.00	37436.00	690779.25	699271.63	758052.64	789745.73	62	268	2015
1521.11	52326.00	52542.00	699262.10	702915.74	744442.50	758070.05	93	293	2015
1522.00	53917.00	54195.00	709260.01	713476.94	705829.77	721509.69	37	225	2015
1522.10	35653.00	36484.00	691116.65	703114.35	744458.83	789241.24	62	268	2015
1523.00	54329.00	54581.00	709449.60	713663.76	705883.42	721610.72	37	225	2015
1523.10	34749.00	35544.00	691335.46	703311.47	744522.42	789213.65	62	268	2015
1524.00	54719.00	54989.00	709647.30	713853.00	705971.32	721650.71	37	225	2015
1524.10	33518.00	34010.00	691530.16	699330.26	760146.47	789278.13	62	268	2015
1524.11	34379.00	34650.00	699326.82	703497.94	744578.19	760162.81	62	268	2015
1525.00	55154.00	55412.00	709837.35	714037.68	706001.52	721691.02	37	225	2015
1525.10	32593.00	33375.00	692155.76	703686.54	744652.84	787686.53	62	268	2015
1526.00	55565.00	55846.00	710031.60	714240.35	706035.89	721719.36	37	225	2015
1526.10	31717.00	32503.00	692425.72	703877.15	744705.76	787454.87	62	268	2015
1527.00	55993.00	56244.00	710225.99	714473.06	706009.16	721792.00	37	225	2015
1527.10	41852.00	42350.00	692626.38	699916.07	760267.97	787463.71	72	274	2015
1527.11	51022.00	51280.00	699900.65	704064.36	744773.40	760331.58	72	274	2015
1528.00	56372.00	56634.00	710421.61	714660.77	706029.03	721822.22	37	225	2015
1528.10	42525.00	43017.00	693204.88	700622.71	758406.23	786097.90	72	274	2015
1528.11	51542.00	51754.00	700597.07	704237.13	744820.81	758479.61	93	293	2015
1529.00	56778.00	57024.00	710613.75	714872.51	706026.89	721917.55	37	225	2015
1529.10	43165.00	43626.00	693528.21	700301.89	760381.73	785659.40	72	274	2015
1529.11	50802.00	51050.00	700283.26	704449.76	744865.75	760466.47	93	293	2015
1530.00	57159.00	57444.00	710815.69	715080.62	706001.24	721936.70	37	225	2015
1530.10	43765.00	44213.00	693731.82	700492.41	760445.51	785688.91	72	274	2015
1530.11	32783.00	33059.00	700472.38	704639.86	744894.93	760503.92	94	295	2015
1531.00	57583.00	57831.00	710993.98	715275.17	706037.92	722009.73	37	225	2015
1531.10	44373.00	44827.00	694243.19	701192.88	758577.55	784556.04	72	274	2015
1531.11	54374.00	54610.00	701199.06	704856.50	744945.68	758576.26	93	293	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1532.00	57931.00	58208.00	711190.17	715486.43	706004.98	722027.40	37	225	2015
1532.10	44978.00	45436.00	694581.50	701391.69	758635.04	784031.81	72	274	2015
1532.11	53590.00	53809.00	701375.92	705044.55	745009.73	758670.34	93	293	2015
1533.00	58350.00	58601.00	711391.04	715698.68	706028.58	722072.85	37	225	2015
1533.10	45555.00	45995.00	694820.48	701593.89	758645.66	783943.74	72	274	2015
1533.11	52809.00	53044.00	701581.26	705233.39	745053.63	758713.82	93	293	2015
1534.00	58740.00	59025.00	711580.99	715908.98	706001.81	722138.48	37	225	2015
1534.10	46160.00	46601.00	695006.19	701783.30	758718.19	783999.66	72	274	2015
1534.11	52023.00	52266.00	701766.44	705422.38	745115.24	758782.49	93	293	2015
1535.00	59155.00	59420.00	711774.29	716100.46	706036.23	722214.94	37	225	2015
1535.10	46792.00	47207.00	695619.99	701977.44	758761.32	782492.41	72	274	2015
1535.11	51275.00	51500.00	701955.72	705619.82	745166.90	758827.80	93	293	2015
1536.00	59544.00	59816.00	711959.42	716313.62	705995.69	722284.11	37	225	2015
1536.10	47363.00	47794.00	695916.03	702165.85	758828.52	782161.39	72	274	2015
1536.11	50541.00	50762.00	702154.68	705806.66	745227.10	758863.49	93	293	2015
1537.00	59934.00	60188.00	712171.96	716512.12	706043.04	722276.77	37	225	2015
1537.10	47918.00	48333.00	696108.87	702352.57	758895.55	782223.34	72	274	2015
1537.11	49807.00	50031.00	702354.34	705976.41	745289.16	758922.05	93	293	2015
1538.00	41342.00	41615.00	712346.95	716729.56	706033.58	722352.59	26	213	2015
1538.10	48486.00	48883.00	696647.39	702542.80	758940.89	780969.46	72	274	2015
1538.11	49069.00	49288.00	702550.78	706202.40	745304.62	758957.52	93	293	2015
1539.00	40921.00	41176.00	712552.00	716933.57	706032.58	722390.27	26	213	2015
1539.10	49030.00	49403.00	696996.78	702750.63	758965.76	780459.92	72	274	2015
1539.11	48369.00	48579.00	702738.67	706392.53	745359.16	759009.22	93	293	2015
1540.00	40456.00	40720.00	712728.06	717144.68	705996.87	722495.09	26	213	2015
1540.10	49564.00	49942.00	697212.18	702939.38	759034.69	780399.41	72	274	2015
1540.11	47688.00	47893.00	702933.80	706591.83	745399.59	759061.58	93	293	2015
1541.00	49584.00	49839.00	712910.54	717351.12	706035.65	722545.14	37	225	2015
1541.10	50107.00	50491.00	697393.54	703138.06	759057.69	780501.60	72	274	2015
1541.11	50765.00	50957.00	703128.89	706778.98	745465.85	759098.19	72	274	2015
1542.00	49189.00	49482.00	713124.59	717856.06	704952.24	722574.59	37	225	2015
1542.10	51567.00	51879.00	698036.38	702814.24	761060.75	778885.60	72	274	2015
1542.12	33263.00	33519.00	702804.33	706966.64	745514.99	761087.11	94	295	2015
1543.00	40018.00	40295.00	713324.77	718049.65	704975.88	722594.42	26	213	2015
1543.10	52009.00	52336.00	698307.89	703523.64	759179.54	778631.54	72	274	2015
1543.11	49326.00	49536.00	703510.64	707159.35	745560.37	759197.98	93	293	2015
1544.00	39555.00	39832.00	713517.64	718224.53	705085.92	722660.61	26	213	2015
1544.10	52519.00	52828.00	698495.13	703191.16	761197.23	778716.92	72	274	2015
1544.11	48615.00	48854.00	703184.74	707418.43	745623.00	761209.66	93	293	2015
1545.00	39115.00	39407.00	713705.38	718427.88	705134.82	722726.04	26	213	2015
1545.10	52987.00	53266.00	699069.75	703388.70	761214.64	777341.27	72	274	2015
1545.12	32457.00	32706.00	703384.01	707557.79	745656.80	761241.00	94	295	2015
1546.00	38678.00	38965.00	713900.78	718611.62	705174.60	722764.93	26	213	2015
1546.10	53404.00	53683.00	699399.66	703573.11	761293.23	776870.86	72	274	2015
1546.11	47260.00	47490.00	703570.09	707736.49	745753.34	761307.91	93	293	2015
1547.00	38229.00	38533.00	714093.63	718809.75	705226.14	722799.36	26	213	2015
1547.10	53810.00	54080.00	699598.33	703781.01	761300.62	776905.94	72	274	2015
1547.11	46564.00	46803.00	703768.32	707943.23	745760.76	761333.64	93	293	2015
1548.00	37794.00	38090.00	714286.71	719001.07	705254.55	722873.80	26	213	2015
1548.10	32440.00	32965.00	700104.31	708134.17	745831.02	775805.83	77	281	2015
1549.00	37368.00	37671.00	714487.47	719205.31	705299.62	722901.91	26	213	2015
1549.10	33092.00	33607.00	700455.79	708313.45	745871.14	775264.00	77	281	2015
1550.00	60257.00	60562.00	714668.96	719376.38	705355.22	723006.15	37	225	2015
1550.11	35376.00	35851.00	700700.32	708511.55	745955.82	775119.46	91	291	2015
1551.00	43564.00	43855.00	714864.65	719585.42	705399.14	723028.85	87	288	2015
1551.11	34367.00	34853.00	700880.20	708711.15	746019.95	775220.61	91	291	2015
1552.00	43986.00	44300.00	715047.11	719770.14	705482.05	723114.82	87	288	2015
1552.10	34850.00	35338.00	701485.34	708910.65	746041.26	773735.98	77	281	2015
1553.00	44424.00	44728.00	715246.41	719976.57	705497.00	723146.96	87	288	2015
1553.10	35456.00	35928.00	701783.87	709100.97	746103.28	773391.13	77	281	2015
1554.00	44879.00	45202.00	715441.36	720166.71	705556.96	723176.28	87	288	2015
1554.10	36058.00	36502.00	701991.06	708756.08	748136.07	773416.49	77	281	2015
1554.11	46495.00	46528.00	708745.57	709295.29	746132.10	748208.48	93	293	2015
1555.00	34567.00	34869.00	715635.59	720343.98	705653.69	723229.96	96	298	2015
1555.11	47806.00	48231.00	702167.68	709448.43	746206.33	773495.12	91	291	2015
1556.01	34180.00	34460.00	715835.96	720546.49	705666.54	723278.80	96	298	2015
1556.10	37199.00	37654.00	702375.44	709149.93	748238.71	773521.83	77	281	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1556.11	47180.00	47211.00	709116.60	709684.67	746240.78	748331.58	93	293	2015
1557.00	47031.00	47302.00	716027.73	720734.40	705744.78	723343.76	83	285	2015
1557.11	34938.00	35330.00	702567.62	709871.27	746307.16	773590.22	91	291	2015
1558.00	46586.00	46915.00	716212.54	720938.88	705767.78	723395.26	83	285	2015
1558.11	33884.00	34325.00	702761.56	710067.40	746354.63	773619.25	91	291	2015
1559.00	46203.00	46464.00	716422.99	721135.85	705838.74	723418.04	83	285	2015
1559.10	38969.00	39361.00	702956.56	709208.02	750341.22	773679.09	77	281	2015
1559.11	46184.00	46242.00	709180.99	710260.12	746422.20	750408.89	93	293	2015
1560.00	45502.00	45612.00	719730.76	721312.38	705881.94	711841.75	83	285	2015
1560.01	45884.00	46104.00	716590.69	719738.22	711778.93	723520.79	83	285	2015
1560.12	47325.00	47766.00	703156.37	710439.91	746468.25	773703.62	91	291	2015
1561.00	45087.00	45361.00	716789.81	721524.53	705923.83	723566.78	83	285	2015
1561.10	62183.00	62686.00	703343.60	710648.79	746488.26	773764.52	75	280	2015
1562.00	44633.00	44973.00	716977.84	721705.26	705971.76	723619.56	83	285	2015
1562.10	61598.00	62111.00	703526.85	710840.06	746564.65	773840.35	75	280	2015
1563.00	44218.00	44462.00	717683.84	721902.62	706021.29	721771.78	83	285	2015
1563.10	61008.00	61502.00	703730.80	711018.13	746610.07	773884.89	75	280	2015
1564.00	43733.00	44057.00	717508.94	722122.88	706003.66	722541.70	83	285	2015
1564.10	60439.00	60928.00	703923.86	711219.02	746680.69	773921.48	75	280	2015
1565.00	43340.00	43595.00	717854.00	722326.03	706015.41	723069.35	83	285	2015
1565.10	59812.00	60325.00	704107.97	711408.72	746718.58	773988.61	75	280	2015
1566.00	42920.00	43256.00	717746.83	722524.28	705999.43	723822.52	83	285	2015
1566.10	59249.00	59742.00	704288.78	711607.28	746768.58	774056.07	75	280	2015
1567.00	48679.00	48959.00	717948.80	722717.31	706014.72	723878.51	37	225	2015
1567.10	58631.00	59133.00	704494.59	711800.16	746827.01	774109.98	75	280	2015
1568.00	42570.00	42783.00	719182.79	722941.43	706029.14	720070.10	83	285	2015
1568.10	58078.00	58555.00	704698.88	712005.33	746861.35	774121.20	75	280	2015
1569.00	42202.00	42469.00	719374.49	723152.59	705999.53	720112.71	83	285	2015
1569.10	57444.00	57942.00	704881.37	712194.32	746914.41	774170.27	75	280	2015
1570.00	41851.00	42062.00	719571.53	723356.22	706012.00	720127.36	83	285	2015
1570.10	56893.00	57364.00	705084.61	712387.23	746972.09	774220.84	75	280	2015
1571.00	41464.00	41746.00	719754.28	723555.65	706025.59	720208.43	83	285	2015
1571.10	56273.00	56775.00	705259.68	712563.68	747049.06	774323.54	75	280	2015
1572.00	41115.00	41328.00	719962.38	723783.25	705994.47	720249.18	83	285	2015
1572.10	55709.00	56190.00	705452.00	712766.90	747069.10	774360.90	75	280	2015
1573.00	40741.00	41021.00	720136.38	723962.06	706042.59	720334.46	83	285	2015
1573.10	55076.00	55587.00	705659.52	712987.05	747096.15	774393.93	75	280	2015
1574.00	40353.00	40569.00	720352.52	724197.24	706014.04	720351.73	83	285	2015
1574.11	37897.00	38329.00	705858.66	713153.27	747195.61	774419.40	94	295	2015
1575.00	39991.00	40275.00	720523.24	724395.62	705995.17	720403.74	83	285	2015
1575.10	53912.00	54414.00	706043.11	713339.81	747253.43	774515.44	75	280	2015
1576.00	39621.00	39834.00	720737.85	724602.64	706027.13	720429.78	83	285	2015
1576.10	53362.00	53838.00	706223.97	713546.70	747285.25	774564.12	75	280	2015
1577.00	39236.00	39519.00	720904.95	724814.04	706002.49	720536.92	83	285	2015
1577.10	52759.00	53265.00	706417.88	713730.44	747344.42	774631.09	75	280	2015
1578.00	38889.00	39106.00	721106.21	725005.74	706037.66	720583.71	83	285	2015
1578.10	52208.00	52686.00	706633.27	713933.25	747364.08	774654.33	75	280	2015
1579.00	38518.00	38824.00	721303.00	725516.48	704932.33	720621.85	83	285	2015
1579.10	51632.00	52137.00	706810.07	714121.38	747438.08	774722.74	75	280	2015
1580.00	38158.00	38399.00	721502.18	725703.95	704982.63	720655.95	83	285	2015
1580.10	51094.00	51564.00	706994.34	714310.91	747491.48	774786.89	75	280	2015
1581.00	37739.00	38044.00	721700.22	725899.68	705039.25	720704.30	83	285	2015
1581.10	40753.00	41229.00	707199.92	714509.26	747517.32	774802.32	77	281	2015
1582.00	37309.00	37553.00	721891.53	726094.05	705097.28	720801.38	83	285	2015
1582.10	41373.00	41858.00	707397.33	714707.31	747575.76	774851.96	77	281	2015
1583.00	36889.00	37207.00	722083.97	726276.81	705147.50	720831.60	83	285	2015
1583.10	41963.00	42438.00	707572.73	714886.31	747629.42	774926.79	77	281	2015
1584.00	36445.00	36685.00	722278.81	726458.06	705229.90	720858.83	83	285	2015
1584.10	42596.00	43090.00	707788.70	715076.70	747705.73	774950.10	77	281	2015
1585.00	36021.00	36336.00	722462.48	726672.17	705248.46	720944.66	83	285	2015
1585.10	43208.00	43686.00	707966.48	715262.42	747753.59	775043.38	77	281	2015
1586.00	35602.00	35833.00	722653.56	726871.92	705289.99	721000.97	83	285	2015
1586.10	51048.00	51538.00	708167.62	715477.75	747771.47	775083.06	77	281	2015
1587.00	35193.00	35390.00	724417.69	727048.69	705366.85	715218.70	83	285	2015
1587.10	51684.00	52116.00	708362.75	715124.51	749859.84	775097.74	77	281	2015
1587.11	45383.00	45420.00	715110.07	715675.95	747837.46	749932.17	89	289	2015
1588.00	34838.00	34982.00	724589.59	727245.19	705411.08	715298.96	83	285	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1588.10	52246.00	52686.00	708547.84	715326.28	749907.73	775202.16	77	281	2015
1588.11	45766.00	45802.00	715309.69	715853.94	747914.38	749954.71	89	289	2015
1589.00	60514.00	60676.00	724794.04	727441.17	705482.52	715340.86	68	271	2015
1589.10	52829.00	53256.00	708746.94	715524.88	749953.75	775226.78	77	281	2015
1589.11	46147.00	46183.00	715504.14	716059.45	747970.84	750029.84	89	289	2015
1590.00	60196.00	60405.00	724989.29	727623.68	705510.37	715384.04	68	271	2015
1590.10	53390.00	53853.00	708945.32	715707.71	750029.90	775289.64	77	281	2015
1590.11	46488.00	46523.00	715704.60	716256.16	747998.95	750053.06	89	289	2015
1591.00	59920.00	60079.00	725193.08	727818.41	705577.97	715463.04	68	271	2015
1591.10	54005.00	54441.00	709122.61	715909.53	750064.96	775336.27	77	281	2015
1591.11	46807.00	46843.00	715887.57	716448.41	748047.14	750134.67	89	289	2015
1592.00	59619.00	59801.00	725371.87	728011.93	705632.23	715500.39	68	271	2015
1592.10	54595.00	55060.00	709332.85	716085.46	750147.26	775385.71	77	281	2015
1592.11	47123.00	47157.00	716095.32	716641.08	748112.17	750140.45	89	289	2015
1593.00	59340.00	59498.00	725570.99	728206.15	705688.34	715543.73	68	271	2015
1593.10	55234.00	55648.00	709514.66	716286.52	750152.05	775442.06	77	281	2015
1593.11	47435.00	47470.00	716280.47	716825.98	748171.54	750222.52	89	289	2015
1594.00	59021.00	59220.00	725752.21	728412.11	705697.59	715604.92	68	271	2015
1594.10	55805.00	56258.00	709719.43	716487.80	750227.70	775488.65	77	281	2015
1594.11	47766.00	47801.00	716476.01	717014.98	748231.48	750253.62	89	289	2015
1595.00	58718.00	58884.00	725953.53	728600.23	705769.88	715664.75	68	271	2015
1595.10	56428.00	56729.00	712004.49	716678.09	750292.49	767706.87	77	281	2015
1595.11	47859.00	47896.00	716652.60	717218.77	748239.10	750316.56	89	289	2015
1595.12	38707.00	38856.00	709901.70	712011.62	767665.23	775566.19	94	295	2015
1596.00	58400.00	58584.00	726139.39	728788.30	705821.78	715713.54	68	271	2015
1596.10	57003.00	57447.00	710094.73	716881.14	750329.07	775608.14	77	281	2015
1596.11	47522.00	47561.00	716837.87	717396.70	748323.96	750409.84	89	289	2015
1597.00	58104.00	58265.00	726346.21	728977.80	705871.04	715740.09	68	271	2015
1597.10	57591.00	58006.00	710289.55	717049.28	750402.39	775632.62	77	281	2015
1597.11	47191.00	47230.00	717046.71	717605.05	748381.02	750409.13	89	289	2015
1598.00	57794.00	57978.00	726534.35	729182.42	705921.63	715803.43	68	271	2015
1598.10	58144.00	58599.00	710496.11	717269.38	750432.49	775665.29	77	281	2015
1598.11	46883.00	46922.00	717241.63	717797.13	748439.62	750475.47	89	289	2015
1599.00	57494.00	57655.00	726719.99	729378.08	705965.21	715852.45	68	271	2015
1599.10	58736.00	59171.00	710681.37	717445.21	750513.19	775741.63	77	281	2015
1599.11	46578.00	46617.00	717432.89	717993.04	748454.53	750516.93	89	289	2015
1600.00	57218.00	57402.00	726904.10	729566.77	706028.92	715933.73	68	271	2015
1600.10	59304.00	59772.00	710884.56	717657.95	750541.01	775794.90	77	281	2015
1600.11	46245.00	46282.00	717617.24	718177.09	748540.93	750602.75	89	289	2015
1601.00	56922.00	57086.00	727100.12	729781.06	706019.46	715992.97	68	271	2015
1601.10	59933.00	60353.00	711063.55	717839.24	750590.25	775840.28	77	281	2015
1601.11	45883.00	45924.00	717806.44	718379.01	748554.04	750662.19	89	289	2015
1602.00	56635.00	56823.00	727305.07	729983.77	706036.96	716004.17	68	271	2015
1602.10	60492.00	60940.00	711253.17	718020.73	750665.66	775927.04	77	281	2015
1602.11	45501.00	45540.00	718013.25	718570.13	748619.88	750678.99	89	289	2015
1603.00	56338.00	56508.00	727492.80	730188.47	706040.14	716094.32	68	271	2015
1603.10	61080.00	61533.00	711451.38	718224.87	750681.06	775926.58	77	281	2015
1603.11	45106.00	45146.00	718209.46	718755.76	748695.82	750739.70	89	289	2015
1604.00	56023.00	56207.00	727701.16	730397.87	706016.91	716096.97	68	271	2015
1604.10	47363.00	47826.00	711640.52	718965.23	748719.20	776018.72	85	286	2015
1605.00	55709.00	55870.00	727885.12	730604.81	706014.15	716154.48	68	271	2015
1605.10	48649.00	49124.00	711849.41	719149.75	748758.98	776030.27	85	286	2015
1606.00	55392.00	55577.00	728084.55	730816.38	705994.03	716220.02	68	271	2015
1606.10	54388.00	54857.00	712029.82	719343.09	748813.60	776124.94	87	288	2015
1607.00	55106.00	55272.00	728278.88	731026.67	706014.35	716276.54	68	271	2015
1607.10	55545.00	56020.00	712242.08	719541.01	748864.53	776144.20	87	288	2015
1608.00	54797.00	55004.00	728452.76	731215.75	706031.68	716335.74	68	271	2015
1608.10	56663.00	57156.00	712420.41	719731.14	748910.35	776228.28	87	288	2015
1609.00	54518.00	54677.00	728666.94	731439.34	706012.55	716362.44	68	271	2015
1609.10	57865.00	58321.00	712620.75	719912.07	749014.10	776282.12	87	288	2015
1610.00	54204.00	54414.00	728842.69	731635.73	706017.76	716426.59	68	271	2015
1610.10	58975.00	59430.00	712814.19	720107.03	749048.66	776330.65	87	288	2015
1611.00	53920.00	54058.00	729039.57	731845.00	706041.38	716442.23	68	271	2015
1611.10	60067.00	60509.00	713009.60	720307.43	749078.87	776372.41	87	288	2015
1612.00	53627.00	53815.00	729235.54	732055.15	706007.61	716520.39	68	271	2015
1612.10	61144.00	61600.00	713200.86	720498.31	749146.96	776397.66	87	288	2015
1613.01	53316.00	53486.00	729424.91	732255.36	706033.37	716588.08	68	271	2015

RADIOMETRIC FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1613.10	39352.00	39868.00	713375.53	720686.18	749196.78	776497.77	89	289	2015
1614.00	42236.00	42698.00	713594.38	720876.55	749274.05	776497.77	89	289	2015
1615.00	43430.00	43892.00	713776.50	721078.91	749275.23	776588.90	89	289	2015
1616.00	44573.00	45041.00	713977.72	721276.06	749351.23	776598.52	89	289	2015
1617.00	43964.00	44487.00	714163.86	721460.25	749397.84	776657.71	89	289	2015
1618.00	47888.00	48406.00	714349.78	721620.68	749469.87	776708.14	85	286	2015
1619.00	49190.00	49718.00	714543.57	721811.37	749501.98	776783.27	85	286	2015
1620.00	54920.00	55427.00	714733.72	722033.83	749530.56	776860.90	87	288	2015
1621.00	56090.00	56576.00	714937.78	722235.66	749587.83	776858.53	87	288	2015
1622.00	57233.00	57746.00	715112.20	722424.81	749676.44	776954.93	87	288	2015
1623.00	58392.00	58889.00	715317.14	722620.06	749705.31	776970.77	87	288	2015
1624.00	59498.00	59973.00	715517.19	722816.62	749746.96	777053.55	87	288	2015
1625.00	60576.00	61062.00	715697.19	723007.85	749796.37	777109.22	87	288	2015
1626.00	38825.00	39275.00	715897.07	723193.78	749880.07	777152.95	89	289	2015
1627.00	39979.00	40436.00	716099.79	723400.64	749918.34	777167.51	89	289	2015
1628.00	42796.00	43333.00	716271.05	723592.21	749979.17	777271.89	89	289	2015
1629.00	41617.00	42147.00	716465.19	723767.99	750018.71	777302.68	89	289	2015
1630.00	60933.00	61318.00	716678.94	723427.29	752098.32	777324.03	83	285	2015
1630.01	41263.00	41304.00	723409.08	723970.65	750072.15	752163.60	89	289	2015
1631.00	60332.00	60838.00	716857.20	723632.16	752139.26	777407.92	83	285	2015
1631.01	41137.00	41174.00	723616.49	724174.48	750115.56	752209.51	89	289	2015
1632.00	59853.00	60245.00	717046.49	723808.01	752237.61	777470.01	83	285	2015
1632.01	40880.00	40921.00	723795.85	724361.34	750171.70	752258.33	89	289	2015
1633.00	59239.00	59742.00	717257.11	724010.61	752236.12	777497.85	83	285	2015
1633.01	40757.00	40792.00	723994.80	724557.02	750237.69	752320.09	89	289	2015
1634.00	58767.00	59153.00	717457.49	724199.26	752321.94	777522.45	83	285	2015
1634.01	40500.00	40537.00	724189.19	724740.47	750303.74	752340.27	89	289	2015
1635.00	58147.00	58422.00	721249.51	724944.95	750329.62	764093.97	83	285	2015
1636.00	57802.00	58019.00	721455.67	725124.83	750381.28	764128.71	83	285	2015
1637.00	57420.00	57688.00	721642.49	725320.27	750453.98	764190.13	83	285	2015
1638.00	57085.00	57299.00	721836.50	725505.11	750497.30	764271.40	83	285	2015
1639.00	56678.00	56921.00	722549.41	725714.16	750525.91	762354.53	83	285	2015
1640.00	56382.00	56566.00	722748.03	725904.17	750594.99	762402.20	83	285	2015
1641.00	56036.00	56279.00	722926.25	726095.23	750659.70	762467.30	83	285	2015
1642.00	55729.00	55919.00	723114.80	726289.19	750709.76	762546.26	83	285	2015
1643.00	55377.00	55625.00	723330.92	726480.72	750754.38	762548.84	83	285	2015
1644.00	55083.00	55273.00	723500.74	726669.61	750828.87	762643.31	83	285	2015
1645.00	54789.00	54992.00	723693.04	726353.28	752785.79	762698.48	83	285	2015
1646.00	54528.00	54679.00	723897.98	726539.53	752848.35	762740.40	83	285	2015
1647.00	45915.00	46091.00	724085.32	726757.54	752860.00	762782.93	82	284	2015
1648.00	45640.00	45815.00	724283.35	726930.38	752933.87	762823.82	82	284	2015
1649.00	45342.00	45521.00	724478.83	727139.85	752992.36	762857.67	82	284	2015
1650.00	45061.00	45238.00	724689.43	727319.44	753026.41	762908.16	82	284	2015
1651.00	44759.00	44941.00	724863.13	727524.73	753069.11	763004.64	82	284	2015
1652.00	44489.00	44661.00	725067.64	727704.58	753151.62	763010.13	82	284	2015
1653.00	44208.00	44375.00	725254.28	727910.50	753171.18	763060.06	82	284	2015
1654.00	43938.00	44096.00	725450.50	728097.11	753253.60	763124.09	82	284	2015
1655.00	43656.00	43826.00	725641.28	728303.80	753282.60	763181.07	82	284	2015
1656.00	43397.00	43556.00	725839.93	728484.50	753339.04	763234.80	82	284	2015
1657.00	43106.00	43290.00	726007.44	728675.65	753398.75	763311.95	82	284	2015
1658.00	42846.00	43013.00	726220.57	728864.82	753473.45	763321.40	82	284	2015
1659.00	42568.00	42747.00	726416.98	729060.08	753525.08	763371.94	82	284	2015
1660.00	42335.00	42487.00	726590.78	729265.44	753538.89	763466.18	82	284	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
101.00	41250.00	41356.10	725335.26	732188.28	705020.76	706843.06	48	248	2015
102.00	40733.30	40982.10	717668.59	731671.98	705035.83	708783.99	48	248	2015
103.00	40290.30	40645.80	709810.72	731149.47	704993.23	710715.24	48	248	2015
104.00	39607.60	40094.00	702147.69	730633.73	705011.02	712649.43	48	248	2015
105.00	38923.00	39534.40	694478.41	730114.96	705026.78	714579.91	48	248	2015
106.00	38003.10	38736.80	686622.46	729601.21	704990.44	716511.91	48	248	2015
107.00	37055.60	37837.70	678955.13	723865.09	705007.71	717049.38	48	248	2015
108.00	35944.90	36876.80	671288.41	723346.52	705028.52	718980.66	48	248	2015
109.00	34810.70	35813.40	663431.73	722834.52	704989.21	720903.49	48	248	2015
110.00	51784.20	52802.20	655766.59	707342.22	705006.71	718812.07	71	273	2015
110.01	37958.50	38147.40	707248.78	718639.48	718805.72	721860.82	87	288	2015
111.00	53333.00	54286.00	648102.29	707596.80	705024.17	720968.02	71	273	2015
111.01	38257.30	38427.10	707502.34	718128.83	720940.06	723791.39	87	288	2015
112.00	54505.30	55704.40	640239.48	704661.56	704983.04	722251.76	71	273	2015
113.00	56091.30	57251.50	632572.05	704147.37	705003.01	724183.58	71	273	2015
114.00	42439.00	43782.90	624904.14	703629.15	705027.10	726117.35	64	269	2015
115.00	40726.40	42253.00	617241.29	699540.49	705030.76	727091.94	64	269	2015
115.01	32562.60	32628.90	699443.01	703109.48	727060.36	728039.89	90	290	2015
116.00	38904.00	40572.60	609378.42	701721.05	704999.75	729757.80	64	269	2015
116.01	32722.00	32738.00	701631.38	702592.72	729720.13	729975.34	90	290	2015
117.00	37915.00	38750.40	605384.71	651555.21	705993.30	718392.13	64	269	2015
117.01	33832.60	34733.00	651462.47	702076.28	718340.98	731914.72	79	282	2015
118.00	36989.70	37847.50	604867.99	652198.10	707939.17	720612.14	64	269	2015
118.01	31896.60	32825.70	652105.73	701557.55	720596.88	733846.50	79	282	2015
119.00	35097.60	35770.60	663373.20	701039.71	725693.93	735781.46	64	269	2015
119.01	36018.60	36846.00	604348.17	651102.12	709861.57	722381.30	64	269	2015
119.02	33055.20	33278.20	651006.40	663461.89	722367.60	725702.59	79	282	2015
120.00	42593.70	44172.40	603830.82	700523.55	711799.22	737705.57	75	280	2015
121.00	61440.50	62957.00	603313.62	696239.02	713727.81	738622.79	80	282	2015
121.01	45982.00	46079.80	696146.45	702322.32	738599.94	740256.80	86	287	2015
122.00	44031.70	45577.80	602796.59	688572.07	715656.18	738656.94	86	287	2015
122.01	45708.80	45936.50	688474.17	701805.40	738626.27	742199.91	86	287	2015
123.00	38573.60	40678.80	602277.38	726787.69	717593.67	750962.07	86	287	2015
124.00	57898.10	58240.70	710243.89	729360.56	748596.61	753712.69	80	282	2015
124.01	42118.80	43915.30	601761.49	710335.57	719527.69	748603.82	86	287	2015
125.00	56530.00	57812.90	653504.72	728842.75	735454.33	755649.10	80	282	2015
125.01	59253.10	60191.90	601242.21	653598.42	721464.50	735478.55	80	282	2015
126.01	38841.90	39317.80	600729.22	629218.18	723393.58	731022.05	75	280	2015
126.10	54862.50	56301.00	649219.63	728325.64	736378.78	757579.59	80	282	2015
127.01	39444.90	40014.60	600207.19	628699.46	725319.99	732955.87	75	280	2015
127.10	53392.90	54765.80	648706.71	727811.25	738314.38	759515.43	80	282	2015
128.01	40136.50	40615.70	599687.88	628181.72	727253.79	734888.00	75	280	2015
128.10	36546.70	38013.60	648187.44	727290.78	740249.62	761438.49	79	282	2015
129.01	40773.60	41321.60	599173.18	627663.59	729183.95	736816.28	75	280	2015
129.10	35431.10	36414.50	667571.74	726773.44	747508.02	763378.18	79	282	2015
130.00	51503.20	52537.00	667049.73	722005.05	749444.62	764174.24	69	272	2015
131.00	44765.30	45782.10	666532.60	720719.45	751370.61	765887.93	69	272	2015
132.00	45846.10	46779.30	666017.52	720201.15	753313.50	767822.28	69	272	2015
133.00	52684.70	53575.40	665498.90	719680.61	755237.30	769754.57	69	272	2015
134.00	46910.00	47954.00	664979.17	719162.50	757167.67	771683.70	69	272	2015
135.00	50105.80	51013.20	664463.45	718647.21	759109.34	773614.35	69	272	2015
136.00	48066.90	48934.30	667423.21	718130.40	761966.19	775549.12	69	272	2015
137.00	49044.00	49983.80	666903.09	717612.45	763892.41	777483.31	69	272	2015
138.00	53874.30	54451.90	666389.57	701059.58	765822.92	775124.21	59	267	2015
139.00	54590.70	55261.60	665862.85	699771.81	767756.40	776833.85	59	267	2015
140.00	42799.70	43405.70	662447.69	698675.27	768919.08	778615.81	62	268	2015
141.00	42060.30	42706.70	661928.57	697576.28	770850.44	780436.06	62	268	2015
142.00	41386.30	41967.80	661410.08	696286.57	772783.46	782123.50	62	268	2015
143.00	40640.80	41300.30	660885.29	695191.33	774706.77	783899.44	62	268	2015
144.00	39952.90	40511.50	660367.39	693898.43	776640.83	785621.22	62	268	2015
145.00	39233.00	39589.50	672813.12	692803.95	782043.41	787410.40	62	268	2015
146.00	38809.80	39129.00	672293.01	691705.28	783990.89	789175.48	62	268	2015
147.00	38353.30	38721.30	671771.86	690414.18	785907.58	790903.22	62	268	2015
148.00	37952.30	38249.80	671241.28	689318.93	787836.69	792679.01	62	268	2015
149.00	37550.70	37862.10	670712.18	688026.71	789766.62	794403.14	62	268	2015
1001.00	59881.20	60258.50	599278.52	605562.98	705898.40	729365.99	1002	181	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1002.00	60359.30	60842.90	599465.09	605757.08	705949.60	729420.86	1002	181	2015
1003.00	60954.80	61331.70	599665.68	605955.31	705994.94	729472.45	1002	181	2015
1004.00	61452.90	61891.00	599858.55	606163.88	705992.15	729525.34	1002	181	2015
1005.00	62058.70	62451.10	600054.07	606377.79	705993.10	729572.57	1002	181	2015
1006.00	62572.90	62993.60	600242.28	606575.07	705992.49	729625.55	1002	181	2015
1007.00	63156.00	63532.40	600440.04	606785.55	705995.64	729677.02	1002	181	2015
1008.00	63667.50	64098.20	600623.83	606994.71	705993.62	729731.57	1002	181	2015
1009.00	64207.80	64587.10	600825.81	607195.57	705996.50	729784.61	1002	181	2015
1010.00	64727.50	65203.50	601021.16	607401.45	705994.08	729834.21	1002	181	2015
1011.00	65336.20	65738.60	601207.74	607615.98	705994.33	729887.12	1002	181	2015
1012.00	32889.50	33307.30	601388.84	607811.11	705996.48	729937.59	1003	182	2015
1013.01	31144.70	31566.80	601594.83	608024.21	705994.74	729984.43	11	200	2015
1014.01	31717.20	32143.50	601788.30	608230.68	705992.14	730041.74	11	200	2015
1015.01	32293.60	32718.00	601976.54	608444.59	705995.12	730094.10	11	200	2015
1016.00	35286.50	35727.50	602171.01	608640.82	705995.21	730144.92	1003	182	2015
1017.00	35871.70	36313.20	602367.53	608848.29	705994.13	730193.53	1003	182	2015
1018.00	36432.30	36854.90	602552.64	609059.81	705994.81	730249.08	1003	182	2015
1019.00	37022.50	37484.40	602756.10	609553.99	704894.88	730302.10	1003	182	2015
1020.00	37602.80	38044.70	602940.61	609747.02	704947.06	730353.99	1003	182	2015
1021.00	38225.10	38698.10	603136.26	609947.97	705002.77	730403.07	1003	182	2015
1022.00	38859.50	39330.80	603327.55	610143.04	705055.17	730457.33	1003	182	2015
1023.00	39492.10	39961.20	603524.23	610331.75	705105.17	730505.91	1003	182	2015
1024.00	40131.10	40605.20	603715.39	610522.12	705155.34	730558.10	1003	182	2015
1025.00	40739.40	41203.40	603916.32	610717.35	705207.26	730610.10	1003	182	2015
1026.00	41357.70	41824.50	604105.17	610915.39	705256.93	730661.67	1003	182	2015
1027.00	41965.40	42428.90	604300.36	611103.41	705313.53	730712.82	1003	182	2015
1028.01	37877.90	38346.50	604498.20	611300.75	705361.89	730762.46	75	280	2015
1029.01	37266.70	37709.20	604688.39	611491.87	705415.81	730816.85	75	280	2015
1030.01	36678.30	37128.20	604879.02	611685.06	705467.68	730867.80	75	280	2015
1031.01	36103.00	36544.40	605075.22	611881.63	705517.58	730922.63	75	280	2015
1032.01	35518.20	35966.30	605265.44	612069.23	705572.56	730972.05	75	280	2015
1033.01	34942.50	35375.40	605461.57	612268.16	705624.08	731022.94	75	280	2015
1034.01	60648.80	61069.60	605649.11	612454.97	705675.09	731074.94	65	270	2015
1035.01	59979.20	60523.30	605845.91	612651.36	705727.21	731128.17	65	270	2015
1036.01	59405.50	59819.80	606040.62	612845.55	705779.76	731179.84	65	270	2015
1037.01	58816.70	59293.00	606233.54	613038.88	705827.21	731231.35	65	270	2015
1038.01	58250.60	58672.90	606430.58	613229.87	705884.23	731279.44	65	270	2015
1039.01	57623.50	58119.30	606625.69	613420.30	705931.00	731331.62	65	270	2015
1040.01	57043.50	57465.00	606814.63	613620.83	705984.14	731385.83	65	270	2015
1041.01	56464.10	56914.30	607005.89	613825.41	705995.22	731437.83	65	270	2015
1042.01	55895.00	56312.00	607197.62	614030.18	705995.13	731491.25	65	270	2015
1043.01	55252.70	55769.60	607390.12	614235.66	705992.91	731542.15	65	270	2015
1044.01	54682.00	55088.00	607583.23	614441.24	705992.97	731592.95	65	270	2015
1045.01	54098.50	54570.30	607787.65	614655.05	705992.33	731644.19	65	270	2015
1046.01	41589.80	42010.30	607971.03	614851.92	705996.92	731700.50	65	270	2015
1047.01	40986.90	41469.80	608165.34	615065.00	705991.80	731748.36	65	270	2015
1048.01	40416.30	40840.60	608356.30	615280.75	705994.22	731798.09	65	270	2015
1049.01	39768.50	40296.30	608550.10	615476.36	705994.32	731852.47	65	270	2015
1050.01	39201.70	39620.80	608744.14	615677.43	705997.91	731902.94	65	270	2015
1051.01	38612.60	39096.20	608938.94	615890.21	705996.75	731953.87	65	270	2015
1052.01	38053.30	38470.40	609129.81	616103.19	705995.50	732007.22	65	270	2015
1053.01	37417.40	37933.70	609322.49	616309.32	705995.73	732059.17	65	270	2015
1054.01	36852.80	37274.20	609514.60	616507.82	705994.02	732112.99	65	270	2015
1055.01	36217.40	36723.80	609705.74	616725.31	705992.66	732165.50	65	270	2015
1056.01	35628.60	36054.20	609906.19	616930.28	705994.27	732214.78	65	270	2015
1057.01	34956.70	35500.30	610096.89	617421.55	704931.66	732267.33	65	270	2015
1058.01	34365.20	34824.20	610290.71	617602.40	704983.70	732320.31	65	270	2015
1059.01	33709.50	34232.40	610485.22	617805.79	705036.45	732372.48	65	270	2015
1060.01	33106.60	33563.80	610673.96	617985.22	705089.06	732421.12	65	270	2015
1061.01	32450.70	32981.70	610865.55	618196.96	705138.33	732473.57	65	270	2015
1062.01	31803.20	32266.20	611062.30	618382.51	705191.59	732522.59	65	270	2015
1063.01	31159.90	31664.90	611257.14	618575.90	705244.91	732579.22	65	270	2015
1064.00	32932.40	33430.00	611444.99	618769.07	705295.55	732628.35	11	200	2015
1065.00	33577.90	34062.30	611638.79	618960.72	705345.41	732682.47	11	200	2015
1066.00	34203.90	34703.30	611829.86	619156.25	705401.12	732733.09	11	200	2015
1067.00	34829.70	35322.10	612025.84	619349.11	705454.14	732786.66	11	200	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1068.00	35495.30	35985.30	612223.80	619545.53	705501.19	732836.41	11	200	2015
1069.00	36158.40	36643.20	612416.98	619737.92	705554.63	732887.40	11	200	2015
1070.01	43017.70	43520.60	612610.05	619953.76	705604.12	732942.40	94	295	2015
1071.00	37403.10	37895.40	612806.36	620122.31	705658.03	732990.24	11	200	2015
1072.00	38039.70	38536.60	612993.40	620313.97	705709.29	733044.77	11	200	2015
1073.00	38701.30	39184.40	613188.73	620505.05	705760.29	733094.38	11	200	2015
1074.00	39318.10	39811.10	613378.68	620702.23	705811.85	733141.76	11	200	2015
1075.00	39944.80	40442.10	613567.75	620892.92	705863.53	733199.33	11	200	2015
1076.00	40623.60	41119.50	613771.52	621091.06	705918.20	733246.88	11	200	2015
1077.00	41267.80	41759.30	613961.49	621280.86	705969.21	733303.21	11	200	2015
1078.00	51044.50	51521.90	614153.13	621483.83	705994.82	733352.45	12	202	2015
1079.00	32298.60	32796.00	614342.32	621690.86	705995.00	733408.13	13	203	2015
1080.00	31621.60	32119.10	614539.97	621882.88	705997.37	733457.48	13	203	2015
1081.00	61493.60	61996.40	614731.14	622100.77	705994.37	733506.98	14	203	2015
1082.00	32925.10	33210.20	614924.32	619126.00	717888.17	733563.36	13	203	2015
1082.01	42728.60	42930.70	619096.28	622310.46	705994.81	718001.33	94	295	2015
1083.00	62794.60	63298.70	615115.01	622519.19	705995.26	733610.77	14	203	2015
1084.00	60839.80	61337.90	615322.49	622728.56	705993.54	733666.97	14	203	2015
1085.00	64064.70	64570.80	615507.07	622937.61	705992.65	733713.29	14	203	2015
1086.00	62114.30	62599.30	615711.19	623138.36	705997.15	733766.64	14	203	2015
1087.00	65308.70	65814.60	615894.76	623348.85	705996.45	733821.20	14	203	2015
1088.00	63423.60	63926.70	616086.95	623557.21	705995.82	733873.20	14	203	2015
1089.00	36218.80	36712.10	616278.00	623766.33	705998.47	733920.71	15	204	2015
1090.00	64689.00	65181.50	616480.79	623970.10	705999.46	733977.52	14	203	2015
1091.00	39734.50	40225.70	616666.80	624175.22	705996.64	734026.09	15	204	2015
1092.00	36835.20	37340.90	616855.20	624374.60	705992.36	734077.13	15	204	2015
1093.00	41094.50	41589.30	617051.49	624597.91	705992.29	734131.92	15	204	2015
1094.00	39042.00	39571.60	617250.78	625087.60	704918.04	734179.37	15	204	2015
1095.00	42422.10	42938.70	617434.52	625282.07	704965.71	734234.94	15	204	2015
1096.00	40341.50	40887.40	617626.29	625470.10	705018.19	734287.61	15	204	2015
1097.00	43720.20	44234.30	617819.96	625665.35	705071.02	734335.15	15	204	2015
1098.00	41730.60	42271.40	618017.08	625860.48	705125.27	734387.73	15	204	2015
1099.00	52048.30	52590.30	618209.92	626046.27	705173.34	734442.84	12	202	2015
1100.00	52861.00	53381.10	618408.27	626248.86	705228.00	734490.66	12	202	2015
1101.00	53572.30	54116.60	618596.62	626435.23	705278.45	734544.54	12	202	2015
1102.00	43056.10	43601.70	618786.35	626626.88	705332.72	734593.69	15	204	2015
1103.00	45083.70	45600.50	618981.42	626825.45	705380.14	734645.91	15	204	2015
1104.00	44370.00	44903.50	619175.76	627017.51	705436.18	734698.49	15	204	2015
1105.00	53263.60	53792.50	619370.15	627213.63	705489.04	734750.80	15	204	2015
1106.00	53936.00	54456.90	619568.14	627406.03	705537.11	734800.76	15	204	2015
1107.00	54630.90	55146.80	619757.46	627600.66	705590.23	734853.17	15	204	2015
1108.00	55274.00	55815.80	619948.95	627791.30	705638.60	734906.09	15	204	2015
1109.00	55934.10	56454.80	620139.13	627983.49	705690.21	734959.02	15	204	2015
1110.00	56582.30	57116.10	620334.27	628178.68	705743.69	735011.69	15	204	2015
1111.00	57278.10	57792.20	620534.90	628371.19	705794.68	735061.44	15	204	2015
1112.00	53058.70	53168.60	626993.69	628557.05	705847.97	711724.52	15	204	2015
1112.01	37586.40	37980.10	620721.09	626958.53	711832.87	735116.26	98	301	2015
1113.00	33590.00	33892.20	624041.51	628748.18	705898.45	723473.74	13	203	2015
1113.01	42336.90	42537.40	620930.74	624069.37	723387.56	735164.21	94	295	2015
1114.00	57911.10	58434.60	621102.71	628951.34	705955.16	735218.03	15	204	2015
1115.00	58565.70	59102.40	621301.09	629152.59	705992.29	735267.94	15	204	2015
1116.00	59222.60	59738.90	621496.50	629357.64	705996.58	735322.55	15	204	2015
1117.00	59892.90	60413.70	621688.28	629557.13	705996.84	735371.30	15	204	2015
1118.00	60527.80	61061.80	621883.03	629765.39	705995.13	735424.74	15	204	2015
1119.00	61183.00	61717.70	622074.19	629980.80	705994.41	735474.20	15	204	2015
1120.00	61840.70	62371.80	622262.15	630183.11	705994.59	735529.89	15	204	2015
1121.00	62583.50	63117.90	622457.70	630387.08	705997.25	735578.08	15	204	2015
1122.00	32826.90	33354.40	622568.65	630591.49	705994.64	735633.58	17	205	2015
1123.00	33511.40	34057.00	622845.16	630797.24	705994.06	735684.21	17	205	2015
1124.00	34160.70	34668.80	622957.81	631015.94	705993.09	735738.09	17	205	2015
1125.00	34833.40	35388.70	623236.05	631211.01	705997.50	735786.21	17	205	2015
1126.00	35515.20	36041.90	623426.06	631430.22	705993.52	735836.46	17	205	2015
1127.01	41676.60	42222.20	623626.81	631629.28	705995.55	735891.89	94	295	2015
1128.00	36895.50	37403.90	623814.62	631842.08	705995.58	735940.28	17	205	2015
1129.00	37586.80	38156.00	624013.03	632008.41	705995.29	735990.31	17	205	2015
1130.00	38310.90	38840.00	624204.31	632260.05	705992.95	736045.57	17	205	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1131.00	38998.50	39582.90	624400.36	632745.05	704901.93	736096.33	17	205	2015
1132.00	39719.30	40259.50	624584.10	632939.37	704952.32	736147.73	17	205	2015
1133.00	40496.80	41084.00	624781.77	633146.71	705005.30	736198.88	17	205	2015
1134.00	41208.90	41754.20	624971.93	633328.28	705054.24	736253.79	17	205	2015
1135.00	41895.60	42460.10	625159.99	633521.12	705107.52	736301.28	17	205	2015
1136.00	30622.50	31172.40	625359.41	633719.77	705159.81	736356.29	18	206	2015
1137.00	31326.90	31898.40	625558.08	633912.01	705213.20	736407.72	18	206	2015
1138.00	32018.90	32571.10	625748.17	634106.34	705264.06	736461.00	18	206	2015
1139.00	32717.10	33302.40	625940.94	634296.38	705313.29	736510.12	18	206	2015
1140.00	33475.30	34057.00	626128.90	634484.60	705366.96	736562.19	18	206	2015
1141.00	34203.00	34778.20	626327.05	634686.29	705417.45	736617.62	18	206	2015
1142.00	34900.50	35458.50	626521.56	634876.45	705469.76	736666.10	18	206	2015
1143.00	35603.80	36178.60	626711.18	635072.08	705522.80	736720.93	18	206	2015
1144.00	36314.10	36866.30	626905.04	635263.59	705573.88	736772.39	18	206	2015
1145.00	37024.60	37584.30	627097.09	635458.99	705625.28	736822.06	18	206	2015
1146.00	37714.60	38264.70	627291.61	635651.91	705675.94	736870.55	18	206	2015
1147.00	38414.30	38986.20	627483.52	635845.23	705727.02	736923.39	18	206	2015
1148.00	39201.30	39612.10	629748.43	636042.26	705782.99	729250.38	18	206	2015
1149.00	39737.10	40153.60	629942.37	636233.21	705833.22	729297.49	18	206	2015
1150.00	55034.70	55450.70	630130.88	636365.69	705884.58	729353.23	18	206	2015
1151.00	55563.80	55973.40	630328.72	636613.68	705937.65	729404.36	18	206	2015
1152.00	56128.40	56552.90	630521.27	636812.00	705989.83	729458.08	18	206	2015
1153.00	56661.80	57075.00	630711.35	637012.12	705995.89	729508.27	18	206	2015
1154.00	30472.10	30873.20	630913.06	637220.00	705998.34	729559.94	19	209	2015
1155.00	31035.30	31474.60	631100.81	637435.67	705995.46	729609.83	19	209	2015
1156.00	31621.90	32029.70	631293.51	637638.30	705996.65	729660.91	19	209	2015
1157.00	32185.20	32611.10	631487.63	637841.40	705996.77	729715.86	19	209	2015
1158.00	32761.40	33161.00	631675.31	638052.81	705993.66	729768.64	19	209	2015
1159.00	33307.40	33744.80	631858.52	638266.51	705993.20	729818.75	19	209	2015
1160.00	33888.80	34302.80	632062.44	638466.21	705996.42	729872.84	19	209	2015
1161.00	34452.00	34884.60	632262.99	638674.99	705997.58	729922.21	19	209	2015
1162.00	30432.50	30839.10	632452.09	638879.84	705994.13	729976.05	21	210	2015
1163.01	33931.70	34355.00	632654.77	639091.75	705992.66	730027.61	75	280	2015
1164.00	31586.40	31993.70	632839.08	639292.81	705995.70	730078.20	21	210	2015
1165.01	33375.80	33816.40	633034.80	639507.36	705996.23	730130.66	75	280	2015
1166.00	32723.70	33130.30	633225.70	639707.06	705993.13	730181.93	21	210	2015
1167.00	33266.00	33720.80	633414.50	639909.42	705996.72	730234.67	21	210	2015
1168.00	33849.40	34275.70	633610.67	640417.76	704881.79	730285.22	21	210	2015
1169.00	45566.30	46011.20	633807.00	640614.40	704934.50	730337.32	18	206	2015
1170.00	46158.30	46616.90	633996.79	640802.35	704985.37	730387.32	18	206	2015
1171.00	46745.10	47202.80	634194.69	641001.66	705036.81	730436.84	18	206	2015
1172.00	47308.40	47759.60	634379.96	641189.99	705091.73	730491.22	18	206	2015
1173.00	47905.40	48043.70	634576.38	636721.04	722569.46	730542.01	18	206	2015
1173.01	41150.10	41428.10	636689.18	641398.69	705141.67	722715.45	94	295	2015
1174.00	48486.80	48952.70	634771.39	641573.06	705193.54	730597.14	18	206	2015
1175.00	49082.90	49536.90	634976.43	641771.14	705245.54	730647.38	18	206	2015
1176.00	49651.50	50116.20	635153.71	641964.17	705298.63	730701.52	18	206	2015
1177.00	50261.10	50725.20	635355.71	642162.11	705349.94	730750.15	18	206	2015
1178.00	50856.80	51314.80	635548.22	642357.12	705398.64	730798.45	18	206	2015
1179.00	51442.50	51898.00	635724.78	642541.84	705451.74	730853.37	18	206	2015
1180.00	52389.90	52501.30	635931.63	637559.44	724859.12	730904.89	18	206	2015
1180.01	35912.60	36220.50	637496.47	642737.53	705503.08	725054.42	98	301	2015
1181.00	52676.50	53126.70	636132.72	642924.89	705555.44	730954.42	18	206	2015
1182.00	53258.80	53716.20	636320.22	643120.35	705610.95	731005.25	18	206	2015
1183.00	53827.50	54274.90	636505.62	643318.48	705659.07	731058.32	18	206	2015
1184.00	54408.90	54860.80	636704.29	643511.92	705710.10	731113.44	18	206	2015
1185.00	34399.80	34853.00	636896.82	643702.98	705764.98	731166.42	21	210	2015
1186.00	34989.90	35410.00	637086.29	643898.14	705815.77	731216.84	21	210	2015
1187.00	35566.40	36018.40	637281.82	644089.75	705864.79	731266.04	21	210	2015
1188.00	50088.30	50618.10	637473.31	644282.18	705918.25	731317.85	65	270	2015
1189.00	50755.60	51162.30	637671.16	644476.56	705969.23	731372.86	65	270	2015
1190.00	51336.30	51813.30	637866.24	644680.53	705997.42	731423.43	65	270	2015
1191.00	51934.30	52351.20	638057.20	644885.33	705996.00	731474.84	65	270	2015
1192.00	52496.30	53019.30	638254.98	645088.58	705993.42	731525.95	65	270	2015
1193.00	53136.90	53563.50	638444.58	645295.71	705995.86	731576.22	65	270	2015
1194.00	36150.40	36585.40	638633.13	645504.01	705994.11	731628.72	21	210	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1195.00	36760.70	37215.30	638825.15	645702.83	705994.44	731681.81	21	210	2015
1196.00	37342.50	37776.80	639007.03	645915.46	705992.09	731731.32	21	210	2015
1197.00	37915.30	38380.50	639213.66	646124.69	705994.16	731783.78	21	210	2015
1198.00	38521.40	38958.50	639406.34	646330.43	705993.16	731834.34	21	210	2015
1199.00	39124.10	39597.50	639599.40	646536.78	705996.83	731889.69	21	210	2015
1200.00	39742.20	40187.50	639785.98	646743.69	705995.35	731940.80	21	210	2015
1201.00	40323.40	40799.70	639984.04	646951.23	705992.08	731989.07	21	210	2015
1202.00	40934.70	41384.00	640178.85	647159.96	705995.36	732043.13	21	210	2015
1203.00	41546.60	42010.00	640379.65	647364.93	705994.49	732096.40	21	210	2015
1204.00	49031.80	49468.60	640564.67	647574.74	705992.96	732149.92	21	210	2015
1205.00	49624.10	50080.50	640762.86	647783.33	705996.08	732201.24	21	210	2015
1206.00	50201.70	50665.30	640956.52	648279.55	704920.83	732252.34	21	210	2015
1207.00	50814.70	51297.40	641148.65	648469.87	704971.72	732301.91	21	210	2015
1208.00	51433.20	51897.20	641327.64	648668.74	705020.10	732351.37	21	210	2015
1209.00	52051.20	52563.00	641526.19	648854.32	705074.20	732404.14	21	210	2015
1210.00	52674.90	53148.00	641727.68	649051.71	705123.05	732454.47	21	210	2015
1211.00	53265.80	53762.60	641919.39	649243.46	705174.91	732511.41	21	210	2015
1212.00	53905.20	54361.10	642111.71	649438.18	705227.79	732562.87	21	210	2015
1213.00	30735.60	31214.50	642305.11	649631.31	705279.24	732616.51	23	211	2015
1214.00	31317.30	31792.60	642490.31	649822.72	705330.72	732665.14	23	211	2015
1215.00	31963.20	32464.70	642691.02	650016.97	705387.13	732718.36	23	211	2015
1216.00	32687.90	33158.30	642886.09	650212.31	705438.39	732766.93	23	211	2015
1217.00	33280.40	33774.40	643072.16	650396.41	705489.58	732822.83	23	211	2015
1218.00	33883.80	34354.20	643268.19	650599.11	705538.88	732874.58	23	211	2015
1219.00	34526.40	35029.10	643466.08	650789.56	705589.54	732921.79	23	211	2015
1220.00	35155.20	35617.10	643664.56	650984.47	705642.01	732972.38	23	211	2015
1221.00	35739.50	36224.90	643849.03	651175.13	705696.30	733027.90	23	211	2015
1222.00	36391.50	36867.10	644045.66	651369.51	705744.64	733080.72	23	211	2015
1223.00	37011.50	37525.40	644243.43	651563.31	705800.21	733131.42	23	211	2015
1224.00	37659.60	38124.70	644442.61	651760.11	705848.21	733184.83	23	211	2015
1225.00	38236.80	38733.10	644624.23	651947.60	705902.01	733235.76	23	211	2015
1226.00	38829.10	39291.00	644810.84	652141.22	705953.58	733285.96	23	211	2015
1227.00	39454.60	39959.20	645014.99	652339.01	705993.88	733340.30	23	211	2015
1228.00	40183.60	40645.00	645202.05	652527.74	705993.08	733390.89	23	211	2015
1229.00	40808.50	40884.30	651622.32	652750.24	705995.59	710200.43	23	211	2015
1229.01	34679.50	34954.50	646959.09	651658.93	710065.88	727575.77	98	301	2015
1229.02	41203.30	41313.90	645400.05	647010.19	727431.12	733439.80	23	211	2015
1230.00	41554.10	42039.50	645595.53	652966.63	705996.35	733493.37	23	211	2015
1231.00	42159.40	42651.80	645786.09	653168.12	705992.62	733544.71	23	211	2015
1232.00	48129.60	48609.80	645982.19	653373.80	705995.83	733594.56	23	211	2015
1233.00	48752.40	49238.60	646170.38	653575.49	705992.23	733651.71	23	211	2015
1234.00	49753.20	49872.70	652084.53	653784.96	705994.96	712360.22	23	211	2015
1234.01	34321.50	34554.70	648467.12	652108.79	712267.35	725886.55	98	301	2015
1234.02	49377.60	49512.90	646364.82	648477.51	725800.88	733700.93	23	211	2015
1235.01	32564.80	33033.30	646555.71	653998.12	705993.67	733750.92	75	280	2015
1236.01	35178.10	35704.70	646746.57	654200.35	705995.75	733805.67	98	301	2015
1237.00	30598.80	31079.10	646940.49	654407.36	705993.06	733853.75	25	212	2015
1238.00	31236.70	31755.50	647135.53	654619.36	705995.21	733908.08	25	212	2015
1239.00	31904.60	32362.80	647331.93	654819.04	705996.51	733956.01	25	212	2015
1240.00	32500.10	33055.50	647523.93	655031.42	705992.95	734013.47	25	212	2015
1241.00	33161.20	33629.90	647716.32	655238.43	705994.86	734060.23	25	212	2015
1242.00	33800.60	34327.60	647914.65	655442.16	705994.50	734113.67	25	212	2015
1243.00	34471.40	34960.30	648096.56	655944.72	704899.80	734168.75	25	212	2015
1244.00	35091.30	35676.10	648287.49	656136.55	704955.18	734218.19	25	212	2015
1245.00	35780.30	36275.00	648493.88	656327.72	705008.53	734268.44	25	212	2015
1246.00	36445.70	37000.20	648685.01	656522.83	705057.51	734324.43	25	212	2015
1247.00	37145.70	37629.40	648881.55	656718.83	705108.46	734371.14	25	212	2015
1248.00	38171.60	38337.50	654794.95	656908.18	705158.89	713065.75	25	212	2015
1248.01	33966.90	34205.80	650641.28	654831.02	712975.05	728572.90	98	301	2015
1248.02	37758.00	37870.50	649068.37	650674.47	728439.45	734427.11	25	212	2015
1249.00	52114.10	52607.30	649267.51	657111.51	705210.88	734474.83	30	221	2015
1250.00	51495.30	52023.00	649456.37	657293.53	705267.03	734523.93	30	221	2015
1251.00	50891.00	51381.50	649655.17	657488.63	705316.78	734581.49	30	221	2015
1252.00	50114.70	50767.50	648289.78	657684.60	705367.84	740428.96	30	221	2015
1253.00	49419.60	49984.90	648486.54	657876.66	705420.91	740476.65	30	221	2015
1254.00	48668.70	49316.60	648674.67	658071.01	705470.98	740532.62	30	221	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1255.00	47971.50	48561.50	648871.03	658268.58	705524.33	740584.25	30	221	2015
1256.00	47184.40	47841.80	649066.39	658457.88	705578.37	740635.77	30	221	2015
1257.00	46422.30	47009.30	649251.50	658653.94	705628.84	740687.69	30	221	2015
1258.00	45695.50	46325.50	649455.17	658850.57	705680.67	740738.67	30	221	2015
1259.00	44984.90	45579.40	649642.43	659030.59	705729.47	740791.59	30	221	2015
1260.00	44199.60	44864.40	649837.14	659221.79	705781.39	740841.35	30	221	2015
1261.00	43474.20	44057.70	650029.70	659424.81	705831.69	740894.02	30	221	2015
1262.00	42733.00	43366.90	650220.09	659616.00	705888.25	740943.48	30	221	2015
1263.00	41968.80	42570.20	650419.27	659806.53	705938.50	740995.32	30	221	2015
1264.00	41159.00	41830.40	650609.86	659998.61	705990.87	741045.99	30	221	2015
1265.00	40381.50	40995.00	650797.64	660232.87	705993.71	741097.60	30	221	2015
1266.00	39616.50	40258.60	650998.71	660405.42	705992.49	741153.45	30	221	2015
1267.00	41946.10	42576.60	651188.48	660621.38	705996.16	741203.80	28	219	2015
1268.00	41204.30	41821.50	651369.50	660831.32	705996.58	741256.88	28	219	2015
1269.00	40439.40	41087.20	651573.72	661035.64	705993.98	741305.78	28	219	2015
1270.00	39676.30	40303.20	651768.13	661245.94	705996.55	741360.26	28	219	2015
1271.00	38914.80	39544.20	651963.08	661457.84	705996.90	741409.12	28	219	2015
1272.00	38192.70	38810.50	652154.89	661660.86	705995.78	741463.24	28	219	2015
1273.00	37456.00	38084.30	652342.47	661867.16	705996.10	741517.08	28	219	2015
1274.00	36711.70	37333.00	652540.23	662068.49	705993.35	741565.91	28	219	2015
1275.00	28888.40	29515.70	652726.82	662279.81	705994.11	741617.75	33	223	2015
1276.00	29603.40	30211.10	652919.76	662483.11	705995.61	741671.61	33	223	2015
1277.00	30335.40	30991.20	653117.65	662687.93	705994.73	741722.96	33	223	2015
1278.00	31104.40	31724.00	653308.40	662903.43	705993.56	741776.50	33	223	2015
1279.00	31829.80	32467.40	653511.97	663101.49	705995.11	741828.26	33	223	2015
1280.00	32551.30	33172.40	653691.52	663604.48	704885.86	741876.57	33	223	2015
1281.00	33313.30	34001.80	653888.84	663806.74	704935.76	741928.40	33	223	2015
1282.00	34121.80	34746.80	654083.12	663994.38	704991.76	741981.26	33	223	2015
1283.00	34851.00	35504.30	654280.39	664186.41	705039.77	742031.91	33	223	2015
1284.00	35602.90	36237.60	654466.63	664386.12	705092.52	742081.00	33	223	2015
1285.00	36365.90	37033.00	654662.42	664576.31	705147.80	742134.88	33	223	2015
1286.00	37153.60	37789.70	654851.29	664771.85	705194.18	742187.30	33	223	2015
1287.00	37885.40	38523.40	655042.65	664954.03	705249.48	742239.98	33	223	2015
1288.00	38609.20	39231.90	655238.93	665153.45	705299.90	742290.79	33	223	2015
1289.00	39357.60	39998.90	655433.16	665348.04	705350.11	742342.22	33	223	2015
1290.00	40101.00	40713.40	655631.19	665547.76	705401.19	742393.70	33	223	2015
1291.00	40807.40	41472.50	655826.60	665736.86	705457.17	742445.59	33	223	2015
1292.00	67165.30	67541.00	660712.56	665925.71	705507.33	725006.99	30	221	2015
1292.01	31931.30	32258.20	656016.57	660727.47	724914.68	742500.70	75	280	2015
1293.00	66085.50	66406.30	660896.77	666121.43	705557.35	725064.72	30	221	2015
1293.01	31472.70	31772.70	656205.21	660922.90	724969.38	742547.96	75	280	2015
1294.00	65284.20	65977.10	656398.10	666323.87	705608.83	742599.98	30	221	2015
1295.00	64546.70	65164.40	656596.26	666511.34	705662.19	742653.96	30	221	2015
1296.00	63743.90	64445.50	656776.01	666706.20	705715.96	742707.87	30	221	2015
1297.00	62995.90	63594.70	657165.15	666888.52	705767.60	742756.43	30	221	2015
1298.00	62209.50	62880.40	657189.16	667087.52	705820.20	742808.90	30	221	2015
1299.00	61496.50	62094.60	657369.52	667280.82	705871.03	742862.43	30	221	2015
1300.00	60675.20	61360.80	657562.36	667468.61	705925.71	742912.45	30	221	2015
1301.00	59925.10	60536.50	657759.37	667672.69	705971.81	742962.61	30	221	2015
1302.00	59128.30	59794.60	657950.95	667878.47	705993.23	743015.63	30	221	2015
1303.00	58402.80	59020.00	658145.79	668077.73	705993.82	743069.61	30	221	2015
1304.00	57546.10	58275.90	658338.16	668288.69	705992.05	743122.09	30	221	2015
1305.00	56780.50	57400.30	658527.43	668493.57	705996.30	743172.57	30	221	2015
1306.00	47534.60	48177.90	658722.03	668698.90	705991.97	743221.12	33	223	2015
1307.00	48311.60	48987.30	658918.20	668910.45	705993.04	743277.15	33	223	2015
1308.00	49074.10	49708.40	659100.61	669113.72	705992.37	743326.19	33	223	2015
1309.00	49805.70	50468.10	659294.09	669315.56	705997.41	743377.19	33	223	2015
1310.00	50563.20	51201.10	659484.36	669524.57	705996.78	743426.72	33	223	2015
1311.00	51317.30	51996.40	659689.95	669737.91	705993.58	743480.69	33	223	2015
1312.00	52092.30	52744.80	659872.74	669937.33	705991.94	743530.81	33	223	2015
1313.00	52860.90	53520.50	660073.51	670138.15	705992.43	743585.14	33	223	2015
1314.00	53622.30	54277.50	660276.34	670354.40	705993.95	743637.27	33	223	2015
1315.00	54405.40	55088.70	660469.80	670554.20	705992.34	743691.68	33	223	2015
1316.00	55183.60	55818.40	660637.87	670772.95	705996.85	743738.11	33	223	2015
1317.00	55916.00	56578.70	660844.27	670981.85	705992.47	743792.83	33	223	2015
1318.00	56721.50	57370.80	661043.02	671466.85	704920.19	743847.05	33	223	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1319.00	57501.20	58186.10	661238.54	671665.06	704974.67	743894.26	33	223	2015
1320.00	58300.40	58956.20	661430.63	671857.42	705023.94	743948.18	33	223	2015
1321.00	59070.30	59758.40	661619.31	672044.60	705076.91	743997.65	33	223	2015
1322.00	30814.10	31520.00	661816.36	672240.91	705129.18	744054.00	27	218	2015
1323.00	31655.50	32362.00	662010.67	672430.83	705182.36	744100.83	27	218	2015
1324.00	32555.00	33241.20	662197.14	672627.34	705234.37	744154.24	27	218	2015
1325.00	33413.00	34116.90	662391.79	672818.19	705285.41	744206.86	27	218	2015
1326.00	34259.70	34945.30	662586.34	673016.64	705334.68	744261.11	27	218	2015
1327.00	35059.20	35781.00	662776.28	673207.08	705386.35	744310.98	27	218	2015
1328.00	35936.80	36608.80	662974.23	673402.84	705437.15	744360.16	27	218	2015
1329.00	36777.10	37463.00	663164.64	673597.38	705489.21	744412.42	27	218	2015
1330.00	37578.90	38261.10	663355.83	673789.50	705542.99	744465.68	27	218	2015
1331.00	38374.70	39084.80	663552.57	673979.00	705593.58	744513.86	27	218	2015
1332.00	39258.90	39938.30	663746.23	674173.92	705647.57	744567.23	27	218	2015
1333.00	40085.50	40787.80	663941.01	674364.14	705699.82	744618.02	27	218	2015
1334.00	29904.30	30582.90	664135.01	674555.24	705747.93	744671.24	28	219	2015
1335.00	30712.20	31412.70	664318.84	674750.32	705800.94	744725.36	28	219	2015
1336.00	31544.80	32215.30	664512.29	674945.89	705854.95	744777.01	28	219	2015
1337.00	32370.50	33104.00	664707.41	675136.93	705903.21	744826.60	28	219	2015
1338.00	33231.50	33911.60	664898.72	675337.50	705958.51	744880.69	28	219	2015
1339.00	34050.40	34745.00	665097.73	675529.80	705996.41	744931.56	28	219	2015
1340.00	34880.00	35559.30	665281.33	675737.81	705994.29	744984.85	28	219	2015
1341.00	35708.80	36421.50	665487.96	675943.06	705994.04	745032.52	28	219	2015
1342.00	44705.00	45409.20	665677.84	676151.90	705992.11	745088.47	49	249	2015
1343.00	45561.10	46313.40	665871.23	676358.12	705992.31	745137.74	49	249	2015
1344.00	46632.00	47319.50	666064.97	676564.58	705994.94	745187.69	49	249	2015
1345.00	47462.80	48218.30	666261.26	676760.59	705993.30	745242.32	49	249	2015
1346.00	48322.80	49002.30	666446.55	676979.45	705994.12	745293.79	49	249	2015
1347.00	49155.80	49879.00	666641.40	677186.00	705991.12	745344.33	49	249	2015
1348.00	49999.30	50688.80	666839.25	677398.45	705995.23	745395.77	49	249	2015
1349.00	50859.60	51593.90	667018.55	677588.72	705993.20	745448.83	49	249	2015
1350.00	51701.80	52382.20	667225.06	677807.97	705991.80	745502.50	49	249	2015
1351.00	52540.20	53292.40	667413.47	678012.72	705995.54	745551.75	49	249	2015
1352.00	53421.70	54108.60	667605.26	678220.49	705998.11	745606.41	49	249	2015
1353.00	54258.60	54993.10	667797.30	678416.48	705995.58	745657.77	49	249	2015
1354.00	55115.40	55787.60	668001.18	678635.13	705998.00	745709.28	49	249	2015
1355.00	55952.20	56928.40	664560.74	679133.98	704905.32	759284.53	49	249	2015
1356.00	54218.60	55221.90	664760.58	679322.75	704958.21	759337.56	52	252	2015
1357.00	55328.20	56248.10	664954.21	679523.53	705007.15	759385.59	52	252	2015
1358.00	56409.90	57357.90	665142.45	679718.12	705061.35	759436.96	52	252	2015
1358.10	44572.30	44727.60	660360.84	662635.44	768816.73	777307.24	43	244	2015
1359.00	57490.00	58420.00	665335.83	679907.62	705114.59	759493.07	52	252	2015
1359.10	44861.30	44999.60	660557.75	662832.11	768866.61	777362.77	43	244	2015
1360.00	58586.70	59572.40	665540.04	680103.28	705161.83	759544.64	52	252	2015
1360.10	45120.20	45279.80	660752.03	663016.20	768919.03	777412.77	43	244	2015
1361.00	59703.80	60624.00	665725.47	680294.22	705217.75	759593.47	52	252	2015
1361.10	34051.60	34214.00	660941.70	663217.48	768969.91	777467.05	44	245	2015
1362.00	60780.20	61757.30	665925.50	680487.76	705268.22	759648.13	52	252	2015
1362.10	34348.10	34491.00	661125.35	663400.36	769020.65	777519.89	44	245	2015
1363.00	61881.00	62812.80	666125.16	680673.59	705320.07	759699.33	52	252	2015
1363.10	34624.70	34779.70	661323.24	663595.84	769073.64	777568.71	44	245	2015
1364.01	45929.80	46879.40	666291.49	680882.32	705369.91	759751.09	71	273	2015
1364.10	34923.60	35067.70	661514.77	663794.74	769126.45	777620.36	44	245	2015
1365.00	47017.10	47984.30	666499.90	681069.85	705423.32	759802.27	71	273	2015
1365.10	35239.80	35388.50	661706.62	663984.29	769178.88	777674.54	44	245	2015
1366.00	48121.40	49061.30	666688.05	681260.51	705477.33	759850.01	71	273	2015
1366.10	35553.20	35689.20	661903.52	664180.66	769227.30	777725.40	44	245	2015
1367.00	49204.60	50152.20	666886.63	681452.70	705530.36	759906.84	71	273	2015
1367.10	35841.10	35990.70	662094.90	664370.37	769283.09	777773.08	44	245	2015
1368.00	50298.60	51249.70	667087.52	681644.09	705576.91	759958.70	71	273	2015
1368.10	36140.80	36283.90	662288.52	664566.18	769331.16	777825.77	44	245	2015
1369.00	58989.10	59175.00	667276.84	669909.98	750155.78	760004.77	71	273	2015
1369.01	50566.20	51435.30	669880.93	681850.62	705631.47	750248.58	96	298	2015
1369.10	36409.10	36571.30	662489.75	664759.01	769382.86	777880.10	44	245	2015
1370.00	60529.60	61474.50	667471.77	682037.51	705682.50	760059.61	41	236	2015
1370.10	36701.80	36843.70	662672.06	664956.51	769434.89	777930.43	44	245	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1371.00	59473.90	60409.80	667655.96	682226.31	705735.22	760111.16	41	236	2015
1371.10	36989.80	37144.40	662874.83	665145.44	769489.03	777980.58	44	245	2015
1372.00	58356.30	59313.50	667855.27	682417.46	705786.76	760162.19	41	236	2015
1372.10	37285.30	37426.70	663057.86	665332.99	769539.91	778032.52	44	245	2015
1373.00	56756.90	58021.60	663261.65	682612.42	705837.68	778084.38	41	236	2015
1374.00	30994.50	32378.30	663452.00	682805.46	705889.34	778137.03	29	220	2015
1375.00	32515.70	33739.40	663647.91	683000.81	705943.03	778190.27	29	220	2015
1376.00	33864.50	35224.70	663838.11	683195.19	705991.86	778240.46	29	220	2015
1377.00	55301.90	56581.30	664023.92	683403.00	705997.50	778296.04	41	236	2015
1378.00	54510.20	55156.40	664224.94	674254.66	740905.46	778343.06	41	236	2015
1378.01	42000.00	42531.50	674243.10	683602.61	705997.10	740952.97	96	298	2015
1379.00	52443.50	53731.90	664417.48	683808.48	705996.84	778397.11	41	236	2015
1380.00	51008.30	52282.80	664609.35	684019.00	705993.85	778450.52	41	236	2015
1381.00	49550.90	50850.70	664803.11	684226.03	705993.22	778500.90	41	236	2015
1382.00	41378.00	42659.90	664997.00	684435.44	705994.58	778550.34	41	236	2015
1383.00	39909.50	41161.30	665197.21	684642.55	705993.95	778604.79	41	236	2015
1384.00	38331.40	39609.60	665381.45	684854.69	705993.83	778653.75	35	224	2015
1385.00	39785.50	41052.20	665574.36	685056.33	705993.62	778705.86	35	224	2015
1386.00	41202.90	42472.50	665761.06	685257.04	705992.44	778759.42	35	224	2015
1387.00	42622.90	43874.70	665962.33	685466.77	705996.39	778809.56	35	224	2015
1388.00	35484.70	35639.40	683387.69	685674.12	705997.07	714530.31	35	224	2015
1388.01	31549.40	32654.40	666153.01	683417.53	714433.15	778859.76	41	236	2015
1389.00	35944.20	36101.50	683583.68	685879.03	705995.30	714581.83	35	224	2015
1389.01	33160.50	34282.00	666352.06	683606.92	714489.97	778914.43	41	236	2015
1390.00	36432.80	36593.60	683776.30	686070.39	705995.34	714629.69	35	224	2015
1390.01	34440.90	35557.20	666542.16	683801.45	714539.07	778964.99	41	236	2015
1391.00	36905.20	37064.40	683972.78	686294.45	705997.01	714678.04	35	224	2015
1391.01	35833.90	36975.10	666734.32	683997.67	714585.23	779015.23	41	236	2015
1392.00	37386.50	37559.70	684164.51	686795.41	704888.47	714731.24	35	224	2015
1392.01	37101.30	38213.70	666931.57	684186.04	714635.55	779068.77	41	236	2015
1393.00	37874.00	38040.70	684355.38	686994.25	704940.52	714785.18	35	224	2015
1393.01	38485.10	39633.20	667119.83	684383.86	714690.70	779118.86	41	236	2015
1394.00	43978.10	45271.80	667309.42	687181.33	704994.43	779174.59	35	224	2015
1395.00	52017.90	53332.00	667507.50	687383.89	705043.12	779223.20	35	224	2015
1396.00	53483.80	54822.90	667701.73	687572.72	705095.90	779274.27	35	224	2015
1397.00	54955.60	56258.60	667895.73	687760.80	705148.25	779325.76	35	224	2015
1398.00	56436.40	57752.90	668092.23	687961.30	705201.14	779378.54	35	224	2015
1399.00	57886.50	59174.90	668275.65	688144.91	705249.31	779433.56	35	224	2015
1400.00	59355.20	60653.70	668476.12	688346.25	705306.01	779484.92	35	224	2015
1401.00	60785.60	62076.70	668669.48	688538.98	705358.59	779533.76	35	224	2015
1402.00	62232.10	63580.20	668860.40	688733.90	705406.36	779586.60	35	224	2015
1403.00	33620.10	34915.50	669054.99	688930.09	705459.42	779637.20	37	225	2015
1404.00	33926.90	35257.60	669248.93	689122.69	705506.30	779690.97	35	224	2015
1405.00	32435.10	33776.60	669436.01	689308.80	705564.10	779742.47	35	224	2015
1406.00	52818.60	54134.80	669636.66	689505.24	705613.02	779792.33	32	222	2015
1407.00	32192.60	33529.00	669825.96	689700.36	705664.46	779846.20	37	225	2015
1408.00	30760.80	32041.50	670015.07	689891.10	705718.58	779894.41	37	225	2015
1409.00	34986.30	35948.60	675553.92	690087.89	705769.83	760052.66	37	225	2015
1409.01	49946.90	50317.00	670211.62	675562.27	759959.73	779950.50	96	298	2015
1410.00	36894.30	37686.30	677805.92	690281.86	705821.13	752379.39	37	225	2015
1410.01	49363.00	49793.70	670410.27	677825.51	752284.25	779997.53	96	298	2015
1411.00	37825.20	39142.50	670596.91	690478.43	705871.00	780053.22	37	225	2015
1412.00	39262.10	40546.40	670784.98	690668.28	705921.29	780104.53	37	225	2015
1413.00	40678.70	41988.60	670986.62	690851.22	705975.37	780157.21	37	225	2015
1414.00	45498.10	46744.80	671250.09	691064.50	705992.31	780204.26	43	244	2015
1415.00	37861.80	39107.50	671365.25	691259.30	705994.57	780259.26	44	245	2015
1416.00	39257.80	40006.10	680509.98	691468.72	705993.24	746886.13	44	245	2015
1416.01	39647.40	40204.30	671562.23	680537.41	746793.04	780310.66	94	295	2015
1417.00	40742.40	42031.70	671757.05	691676.87	705994.33	780364.90	44	245	2015
1418.00	42154.40	43543.90	671950.22	691879.86	705995.49	780417.35	44	245	2015
1419.00	43668.00	44864.70	672143.25	692096.56	705996.15	780464.81	44	245	2015
1420.00	32619.50	33977.10	672336.89	692303.84	705993.90	780517.71	40	234	2015
1421.00	34087.00	35383.80	672529.64	692508.72	705995.03	780570.75	40	234	2015
1422.00	35554.10	36533.20	672724.46	686879.07	727781.00	780624.02	40	234	2015
1422.01	43256.20	43654.40	686854.58	692718.53	705996.77	727875.51	40	234	2015
1423.00	36764.10	37683.60	672912.91	687065.49	727841.77	780675.73	40	234	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1423.01	42634.50	43000.40	687045.24	692919.71	705995.69	727939.02	40	234	2015
1424.00	37863.60	39202.50	673103.92	693135.52	705993.88	780726.83	40	234	2015
1425.00	39325.80	40779.90	670715.40	693332.61	705997.70	790435.60	40	234	2015
1426.00	40944.20	42441.60	670911.21	693546.92	705992.50	790490.65	40	234	2015
1427.00	51640.90	53198.70	671100.08	693709.78	705992.83	790540.38	44	245	2015
1428.00	53321.00	54786.10	671292.69	693959.84	705994.86	790591.72	44	245	2015
1429.00	54929.10	56462.20	671488.93	694166.62	705993.06	790643.16	44	245	2015
1430.00	56580.90	58051.90	671681.51	694661.52	704925.71	790693.35	44	245	2015
1431.00	58173.40	58994.00	682379.72	694856.77	704974.32	751526.54	44	245	2015
1431.01	42146.80	42802.50	671864.73	682404.49	751429.83	790747.91	95	297	2015
1432.00	59802.80	61253.10	672071.85	695055.13	705026.14	790800.45	44	245	2015
1433.00	61373.30	62877.80	672260.27	695240.91	705079.17	790852.27	44	245	2015
1434.00	63003.80	63844.20	672454.24	686096.08	739965.52	790899.25	44	245	2015
1434.01	43108.20	43768.60	686074.08	695425.55	705129.57	740058.27	46	247	2015
1435.00	49552.40	50128.70	686768.13	695624.95	705183.04	738239.38	46	247	2015
1435.01	33210.00	34099.60	672649.26	686793.08	738149.52	790956.04	48	248	2015
1436.00	31533.00	33099.80	672843.31	695815.41	705231.91	791006.19	48	248	2015
1437.00	29925.70	31381.70	673030.48	696011.78	705284.17	791060.83	48	248	2015
1438.00	34586.30	35806.90	673225.37	693074.71	717019.35	791109.66	46	247	2015
1438.01	42822.50	43008.50	693047.22	696216.20	705337.34	717110.82	46	247	2015
1439.00	36037.00	37465.00	673418.75	693266.03	717077.71	791159.29	46	247	2015
1439.01	42445.50	42661.60	693239.17	696402.67	705389.18	717171.69	46	247	2015
1440.00	37580.80	39024.80	673612.85	696599.40	705438.39	791213.80	46	247	2015
1441.00	39118.10	40786.30	673803.68	696786.33	705493.06	791263.37	46	247	2015
1442.00	40920.70	42336.10	674005.38	696981.41	705544.51	791313.74	46	247	2015
1443.00	50248.10	51954.30	674190.24	697172.45	705594.82	791366.74	46	247	2015
1444.00	52087.30	52978.60	674387.74	688022.68	740520.03	791419.28	46	247	2015
1444.01	53558.30	54178.90	687993.69	697365.31	705646.97	740613.34	46	247	2015
1445.00	54320.20	55989.90	674583.10	697552.83	705703.19	791470.43	46	247	2015
1446.00	56110.80	57550.40	674770.22	697749.95	705752.71	791524.90	46	247	2015
1447.00	57695.80	57926.30	694790.78	697939.95	705805.31	717586.61	46	247	2015
1447.01	58724.50	60174.30	674963.35	694815.69	717493.11	791575.41	46	247	2015
1448.00	60311.80	61742.40	675160.48	698140.54	705853.00	791629.02	46	247	2015
1449.00	61894.10	62727.30	686892.79	698326.24	705908.13	748592.52	46	247	2015
1449.01	44484.80	45214.80	675350.71	686921.92	748502.24	791676.34	57	265	2015
1450.00	30447.20	31918.30	675545.99	694874.31	719575.29	791731.83	55	263	2015
1450.01	39026.20	39296.30	694844.94	698521.52	705958.52	719669.16	55	263	2015
1451.00	32092.80	33275.50	675743.43	695073.28	719626.53	791779.96	55	263	2015
1451.01	38593.00	38810.90	695043.22	698706.08	705997.79	719724.04	55	263	2015
1452.00	33402.30	35108.90	675931.23	698927.41	705996.17	791837.06	55	263	2015
1453.00	35215.00	36627.50	676124.18	699138.64	705994.30	791888.53	55	263	2015
1454.00	36775.90	38478.10	676318.18	699337.81	705991.86	791938.10	55	263	2015
1455.00	39391.40	40833.90	676512.32	699541.32	705994.85	791990.03	55	263	2015
1456.00	40963.80	42657.40	676700.32	699754.41	705995.99	792037.95	55	263	2015
1457.00	42776.10	43219.90	692579.13	699963.43	705992.49	733549.29	55	263	2015
1457.01	62088.40	63052.40	676916.64	692606.34	733458.03	792089.70	57	265	2015
1458.00	51201.20	52113.60	677099.00	690208.94	743169.61	792144.37	57	265	2015
1458.01	36521.50	37154.50	690186.68	700167.78	705995.96	743262.88	90	290	2015
1459.00	52242.10	53697.90	677280.46	700367.89	705994.35	792194.07	57	265	2015
1460.00	53846.20	55473.70	677478.21	700581.41	705994.00	792250.09	57	265	2015
1461.00	55599.80	57022.60	677673.52	700777.70	705996.34	792299.10	57	265	2015
1462.00	57210.80	58765.90	677865.51	700993.54	705993.29	792352.69	57	265	2015
1463.00	58914.30	60342.10	678064.04	701200.85	705991.90	792405.21	57	265	2015
1464.00	33615.10	34433.00	678242.88	691369.57	743480.68	792454.74	57	265	2015
1464.01	34786.20	35378.70	691346.04	700687.70	708710.86	743577.43	57	265	2015
1464.02	51911.60	51950.40	700662.99	701397.20	705998.71	708805.79	68	271	2015
1465.00	35633.80	37243.20	678442.90	700875.59	708758.94	792508.11	57	265	2015
1465.01	52487.90	52525.80	700858.91	701612.94	705994.54	708850.68	68	271	2015
1466.00	37387.80	38213.10	678627.59	691757.97	743585.13	792559.04	57	265	2015
1466.01	38522.20	39117.10	691729.63	701073.56	708814.91	743681.98	57	265	2015
1466.02	47011.60	47056.00	701045.91	701823.94	705996.68	708911.00	87	288	2015
1467.00	39353.90	40940.90	678822.95	701257.84	708867.06	792610.08	57	265	2015
1467.01	46750.60	46830.40	701241.80	702323.68	704909.37	708957.06	87	288	2015
1468.00	41073.40	42563.30	679030.21	702514.86	704960.67	792660.68	57	265	2015
1469.00	42757.50	44392.60	679214.26	702706.20	705011.78	792715.87	57	265	2015
1470.00	60465.10	62004.90	679411.40	702900.81	705063.27	792764.07	57	265	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1471.00	32984.60	34617.60	679601.69	703095.90	705113.46	792819.04	73	277	2015
1472.00	34760.40	36275.80	679802.35	703288.92	705167.43	792867.58	73	277	2015
1473.00	36468.70	37920.20	679988.80	702429.85	709175.51	792921.24	73	277	2015
1473.02	54529.20	54588.30	702395.99	703485.13	705219.39	709269.99	100	304	2015
1474.00	38097.10	39538.70	680184.49	702608.67	709224.92	792973.36	73	277	2015
1474.03	55471.50	55549.40	702589.83	703676.10	705270.28	709316.34	100	304	2015
1475.00	39674.50	40881.90	680380.11	698669.60	724730.87	793026.30	73	277	2015
1475.02	54021.00	54370.60	698650.92	703872.00	705323.17	724825.82	100	304	2015
1476.00	41006.00	42181.10	680570.21	698855.50	724786.20	793073.49	73	277	2015
1476.02	55685.60	56016.40	698830.70	704059.22	705372.75	724882.79	100	304	2015
1477.00	42334.10	43805.50	680756.31	702675.77	711317.37	793128.01	73	277	2015
1477.02	55087.90	55179.20	702649.16	704249.48	705429.09	711411.23	100	304	2015
1478.00	43972.80	44731.60	690943.37	702869.42	711366.38	755895.61	73	277	2015
1478.01	51092.70	51738.40	680966.51	690970.55	755800.08	793177.50	73	277	2015
1478.02	41101.80	41190.90	702847.83	704436.51	705475.89	711459.77	96	298	2015
1479.00	51938.10	53447.10	681149.70	703587.06	709484.29	793231.92	73	277	2015
1479.01	40845.20	40918.70	703570.40	704639.88	705530.39	709583.40	96	298	2015
1480.00	53546.00	54951.90	681347.55	703249.44	711473.18	793283.77	73	277	2015
1480.01	40044.80	40127.70	703225.71	704829.28	705584.51	711564.05	96	298	2015
1481.00	55123.00	56382.20	681533.85	700348.80	723114.23	793333.67	73	277	2015
1481.01	39584.50	39915.90	700323.04	705031.54	705635.69	723208.14	96	298	2015
1482.00	56518.30	57757.60	681727.65	700536.03	723162.60	793387.96	73	277	2015
1482.01	38993.20	39249.00	700516.53	705220.69	705686.95	723255.38	96	298	2015
1483.00	57905.90	59148.20	681913.64	700213.94	725147.47	793441.98	73	277	2015
1483.01	38543.80	38892.50	700188.26	705421.80	705735.49	725244.44	96	298	2015
1484.00	59266.60	60460.80	682109.33	700408.55	725199.21	793495.27	73	277	2015
1484.01	38025.20	38301.30	700391.11	705647.55	705790.89	725290.84	96	298	2015
1485.00	60604.00	61766.10	682310.06	700601.79	725254.89	793550.21	73	277	2015
1485.01	37550.70	37919.10	700578.78	705803.66	705840.28	725347.21	96	298	2015
1486.00	61888.90	63073.00	682508.81	700790.98	725301.51	793598.60	73	277	2015
1486.01	36972.80	37275.30	700770.61	705990.61	705888.32	725397.10	96	298	2015
1487.00	44369.00	45925.60	682684.32	705136.30	709896.84	793653.69	81	283	2015
1487.01	36753.40	36834.80	705110.45	706189.22	705942.67	709990.16	96	298	2015
1488.00	46069.70	47541.30	682888.30	705326.95	709954.05	793705.77	81	283	2015
1488.01	36347.80	36406.30	705306.49	706376.55	705993.84	710045.82	96	298	2015
1489.00	47665.20	49121.80	683068.78	705008.41	711934.52	793758.37	81	283	2015
1489.01	36073.00	36198.50	704981.18	706589.87	705994.90	712026.19	96	298	2015
1490.00	49244.90	50645.80	683273.60	705176.75	711989.67	793813.88	81	283	2015
1490.01	35728.40	35812.20	705166.36	706796.54	705992.52	712078.19	96	298	2015
1491.00	50764.70	52201.90	683461.68	705394.96	712033.22	793866.28	81	283	2015
1491.01	35479.40	35607.70	705363.00	707008.80	705993.47	712129.54	96	298	2015
1492.00	52333.60	53778.60	683659.81	705576.99	712084.59	793919.69	81	283	2015
1492.01	35135.90	35224.10	705547.93	707207.29	705992.37	712179.21	96	298	2015
1493.00	30825.30	31632.20	683853.51	696447.67	746916.13	793969.40	64	269	2015
1493.01	55571.30	56160.40	696425.14	705772.09	712142.76	747005.28	81	283	2015
1493.02	46364.10	46470.10	705742.01	707416.36	705995.12	712238.25	87	288	2015
1494.00	53915.20	55397.00	684042.55	705966.95	712194.47	794026.22	81	283	2015
1494.01	46121.20	46235.20	705939.82	707632.18	705995.65	712287.51	87	288	2015
1495.00	34409.00	35367.00	685438.40	700980.44	731567.74	789613.12	82	284	2015
1495.01	35470.20	35705.80	702516.34	706143.01	712248.79	725857.87	82	284	2015
1495.02	45747.80	45848.90	706127.94	707832.67	705993.82	712343.05	87	288	2015
1495.03	50846.70	50927.20	684241.00	685454.04	789516.10	794075.49	89	289	2015
1495.04	37690.80	37790.30	700953.64	702535.12	725764.01	731660.99	90	290	2015
1496.00	35815.20	36042.80	702682.75	706351.93	712295.29	725931.29	82	284	2015
1496.01	36135.80	36931.00	688722.16	701179.08	731619.62	778072.99	82	284	2015
1496.02	45504.20	45621.40	706327.33	708038.10	705993.72	712388.00	87	288	2015
1496.03	50042.80	50330.40	684426.05	688749.70	777975.49	794133.27	89	289	2015
1496.04	35861.10	35964.60	701147.57	702729.14	725834.17	731711.10	90	290	2015
1497.00	37042.00	37836.60	689454.77	701353.42	731670.38	776187.42	82	284	2015
1497.01	37948.90	38304.50	702890.96	708241.56	705994.30	725970.93	82	284	2015
1497.02	49604.40	49928.50	684625.14	689454.71	776090.98	794182.78	89	289	2015
1497.03	35322.10	35421.80	701335.74	702919.24	725877.83	731765.80	90	290	2015
1498.00	38410.70	38733.00	703088.26	708470.73	705944.17	726005.30	82	284	2015
1498.01	38834.60	39625.40	689626.62	701556.59	731727.74	776237.09	82	284	2015
1498.02	49019.10	49339.20	684812.98	689657.85	776143.74	794237.93	89	289	2015
1498.03	34691.70	34805.20	701528.59	703108.90	725912.30	731821.97	90	290	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1499.00	34172.20	34385.90	703266.96	706915.11	712454.00	726066.93	64	269	2015
1499.01	39717.90	40493.80	689847.37	701750.07	731769.18	776302.93	82	284	2015
1499.02	40838.90	40950.80	706914.88	708655.45	705992.73	712543.46	82	284	2015
1499.03	48591.10	48905.20	684999.48	689845.50	776211.97	794290.70	89	289	2015
1499.04	33674.00	33769.50	701734.97	703318.27	725975.61	731862.48	90	290	2015
1500.00	31748.80	32514.10	685203.17	695739.34	755008.04	794340.61	64	269	2015
1500.01	32885.50	33329.20	695712.90	701946.77	731825.57	755103.00	64	269	2015
1500.02	33704.10	34005.20	703443.41	707633.40	710565.64	726126.72	64	269	2015
1500.03	41016.30	41097.00	707610.24	708858.13	705995.66	710657.88	82	284	2015
1500.04	33322.70	33425.50	701921.46	703502.09	726027.15	731917.11	90	290	2015
1501.00	41818.00	42077.90	705190.77	709075.24	705994.58	720471.53	48	248	2015
1501.10	38110.00	39022.30	685389.25	700097.10	739508.08	794397.12	85	286	2015
1502.00	38844.80	39068.50	705387.15	709277.27	705992.76	720524.54	87	288	2015
1502.10	39106.90	40084.50	685587.83	700290.59	739561.53	794451.19	85	286	2015
1503.00	39207.70	39465.90	705580.26	709491.30	705995.48	720577.87	87	288	2015
1503.10	40199.40	41144.40	685778.75	700482.08	739611.01	794501.25	85	286	2015
1504.00	39627.60	39896.50	705773.63	709989.29	704888.41	720629.93	87	288	2015
1504.10	41236.30	42209.80	685969.93	700680.90	739665.88	794554.71	85	286	2015
1505.00	40059.80	40323.50	705967.18	710186.03	704942.94	720682.44	87	288	2015
1505.10	42318.40	43251.80	686161.68	700866.21	739718.97	794609.86	85	286	2015
1506.00	40475.50	40728.10	706157.70	710379.17	704994.83	720734.15	87	288	2015
1506.10	43348.10	44327.30	686362.79	701055.51	739767.35	794659.25	85	286	2015
1507.00	40863.40	41151.50	706348.23	710575.95	705048.20	720785.87	87	288	2015
1507.10	44476.60	45426.80	686549.44	701244.17	739822.67	794717.52	85	286	2015
1508.00	41278.50	41562.50	706547.75	710766.43	705095.14	720838.47	87	288	2015
1508.10	61874.20	62565.20	686744.99	697279.51	755415.11	794766.67	62	268	2015
1508.11	45645.70	45933.60	697266.47	701429.71	739871.91	755507.36	85	286	2015
1509.00	41726.70	41987.40	706751.63	710959.59	705152.51	720885.95	87	288	2015
1509.10	62672.70	63448.50	686938.18	697998.26	753542.58	794820.22	62	268	2015
1509.11	46253.50	46486.90	697993.12	701640.16	739925.96	753539.45	85	286	2015
1510.00	42130.80	42391.50	706933.50	711149.43	705201.35	720937.82	87	288	2015
1510.10	60980.20	61729.10	687131.20	698191.29	753591.30	794872.96	62	268	2015
1510.11	36194.00	36389.10	698163.07	701832.80	739972.07	753681.78	94	295	2015
1511.00	42548.90	42844.20	707120.41	711349.48	705256.09	720992.18	87	288	2015
1511.10	60118.60	60826.30	687316.58	697868.71	755573.67	794924.55	62	268	2015
1511.11	36788.80	37009.50	697844.41	702029.34	740026.07	755665.25	94	295	2015
1512.00	42990.60	43280.20	707323.95	711534.25	705308.03	721042.19	87	288	2015
1512.10	59305.90	60030.40	687527.45	698573.88	753694.96	794935.36	62	268	2015
1512.11	35904.00	36103.80	698546.47	702227.38	740079.48	753789.66	94	295	2015
1513.00	50473.90	50723.50	707544.91	711726.14	705358.89	721093.56	37	225	2015
1513.10	58480.90	59174.40	687848.78	698241.20	755677.63	794502.43	62	268	2015
1513.11	35315.30	35493.60	698220.09	701378.16	743991.76	755775.01	94	295	2015
1514.00	50899.30	51164.70	707703.47	711916.33	705408.08	721145.79	37	225	2015
1514.10	57674.50	58358.10	688363.82	698441.04	755727.97	793387.84	62	268	2015
1514.11	34994.00	35181.00	698423.05	701574.48	744042.46	755822.44	94	295	2015
1515.00	51268.60	51513.00	707920.33	712118.79	705460.72	721197.39	37	225	2015
1515.10	56898.60	57540.20	688696.90	698114.65	757706.14	792867.27	62	268	2015
1515.11	34195.40	34410.50	698094.38	701764.22	744099.14	757804.89	94	295	2015
1516.00	51629.40	51891.90	708095.30	712315.54	705510.99	721248.20	37	225	2015
1516.10	56124.60	56807.80	688949.42	698829.13	755832.32	792732.34	62	268	2015
1516.11	33630.60	33827.40	698797.61	701891.53	744151.14	755924.71	94	295	2015
1517.00	52005.30	52256.40	708284.91	712513.65	705564.05	721301.19	37	225	2015
1517.10	55347.90	55993.90	689132.00	699021.77	755882.63	792783.40	62	268	2015
1517.11	53875.00	54061.50	698995.12	702081.73	744204.44	755976.09	93	293	2015
1518.00	52371.70	52635.30	708473.98	712693.17	705616.20	721353.07	37	225	2015
1518.10	54581.20	55202.70	689740.09	699212.97	755937.65	791320.00	62	268	2015
1518.11	53105.10	53293.10	699196.04	702461.27	744249.03	756028.24	93	293	2015
1519.00	52758.40	53009.20	708676.15	712897.66	705666.89	721403.97	37	225	2015
1519.10	53611.40	54440.20	690040.96	702536.17	744307.38	790952.09	62	268	2015
1520.00	53134.90	53410.80	708864.13	713083.24	705717.66	721458.73	37	225	2015
1520.10	50258.70	50804.80	690237.19	698564.47	759903.46	791003.53	62	268	2015
1520.11	53230.90	53515.00	698543.40	702735.29	744357.49	759997.04	62	268	2015
1521.00	53510.80	53759.30	709064.37	713271.43	705770.02	721511.91	37	225	2015
1521.10	36838.50	37436.40	690773.31	699278.32	758026.32	789767.26	62	268	2015
1521.11	52325.30	52542.70	699249.74	702941.15	744407.72	758115.84	93	293	2015
1522.00	53916.90	54195.90	709245.90	713478.51	705823.67	721561.55	37	225	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1522.10	35652.80	36484.00	691113.65	703114.33	744458.82	789252.19	62	268	2015
1523.00	54329.00	54581.10	709449.35	713665.44	705877.13	721610.62	37	225	2015
1523.10	34748.80	35544.30	691330.74	703314.72	744511.68	789230.76	62	268	2015
1524.00	54718.20	54989.20	709643.93	713865.01	705926.49	721662.82	37	225	2015
1524.10	33518.00	34010.60	691530.23	699340.28	760109.86	789278.14	62	268	2015
1524.11	34378.30	34650.20	699315.98	703501.21	744565.96	760204.22	62	268	2015
1525.00	55153.60	55412.40	709831.72	714044.15	705976.12	721716.81	37	225	2015
1525.10	32592.30	33375.30	692151.34	703696.94	744614.89	787703.37	62	268	2015
1526.00	55564.30	55846.80	710021.22	714250.72	705995.10	721765.54	37	225	2015
1526.10	31717.10	32503.70	692427.14	703887.50	744667.24	787449.83	62	268	2015
1527.00	55992.50	56244.20	710217.90	714477.03	705996.68	721821.69	37	225	2015
1527.10	41851.20	42350.00	692616.20	699916.11	760267.97	787505.48	72	274	2015
1527.11	51021.10	51280.50	699892.68	704078.45	744719.79	760360.92	72	274	2015
1528.00	56371.40	56634.80	710408.62	714670.50	705993.89	721868.28	37	225	2015
1528.10	42524.60	43017.90	693191.00	700628.09	758384.45	786150.27	72	274	2015
1528.11	51541.20	51754.00	700597.05	704246.29	744769.26	758479.61	93	293	2015
1529.00	56777.90	57024.50	710612.14	714880.50	705994.68	721923.99	37	225	2015
1529.10	43164.70	43626.20	693523.78	700305.17	760370.30	785676.03	72	274	2015
1529.11	50801.30	51050.00	700283.28	704452.64	744819.33	760466.47	93	293	2015
1530.00	57158.90	57444.70	710804.86	715081.93	705996.03	721976.63	37	225	2015
1530.10	43764.60	44213.60	693722.16	700499.14	760422.06	785724.40	72	274	2015
1530.11	32782.60	33059.20	700469.14	704644.79	744872.15	760515.85	94	295	2015
1531.00	57582.70	57831.60	710987.97	715286.36	705997.32	722028.93	37	225	2015
1531.10	44372.20	44827.70	694232.20	701204.26	758535.60	784598.65	72	274	2015
1531.11	54373.10	54610.40	701185.14	704862.48	744922.77	758626.75	93	293	2015
1532.00	57930.80	58208.90	711176.85	715489.51	705992.92	722078.25	37	225	2015
1532.10	44977.10	45436.90	694567.04	701401.50	758585.42	784084.66	72	274	2015
1532.11	53589.80	53809.50	701372.74	705052.58	744978.48	758682.19	93	293	2015
1533.00	58349.10	58601.50	711376.44	715707.65	705995.54	722128.63	37	225	2015
1533.10	45554.90	45995.00	694819.04	701593.89	758645.61	783949.33	72	274	2015
1533.11	52808.60	53044.40	701575.33	705239.70	745030.52	758735.57	93	293	2015
1534.00	58739.90	59025.80	711568.49	715910.54	705996.35	722183.94	37	225	2015
1534.10	46159.60	46601.00	695006.17	701789.04	758696.71	783999.66	72	274	2015
1534.11	52022.80	52266.60	701763.63	705431.22	745080.94	758793.06	93	293	2015
1535.00	59154.70	59420.70	711769.78	716111.89	705993.07	722233.23	37	225	2015
1535.10	46791.30	47207.20	695610.80	701980.52	758749.79	782531.07	72	274	2015
1535.11	51274.80	51500.60	701952.62	705629.95	745130.25	758839.11	93	293	2015
1536.00	59544.00	59816.00	711959.40	716313.56	705995.66	722284.12	37	225	2015
1536.10	47362.60	47794.20	695913.45	702170.54	758806.75	782171.97	72	274	2015
1536.11	50540.30	50762.70	702144.55	705817.10	745182.96	758904.62	93	293	2015
1537.00	59933.10	60188.80	712157.34	716524.87	705992.74	722335.89	37	225	2015
1537.10	47918.00	48333.90	696108.90	702364.83	758849.66	782223.30	72	274	2015
1537.11	49806.60	50031.90	702348.47	705994.10	745234.94	758945.18	93	293	2015
1538.01	49947.60	50226.50	712347.86	716734.20	705996.93	722390.86	37	225	2015
1538.10	48485.30	48883.20	696644.27	702551.85	758899.95	780980.72	72	274	2015
1538.11	49068.40	49288.30	702541.20	706206.99	745286.22	758993.55	93	293	2015
1539.00	40920.40	41176.80	712538.57	716943.27	705994.88	722440.11	26	213	2015
1539.10	49030.00	49403.20	696996.80	702753.74	758954.30	780459.91	72	274	2015
1539.11	48368.40	48579.30	702728.88	706397.54	745340.05	759047.22	93	293	2015
1540.00	40456.00	40720.00	712728.04	717144.67	705996.84	722495.10	26	213	2015
1540.10	49563.50	49942.90	697198.29	702946.02	759006.78	780450.21	72	274	2015
1540.11	47687.40	47893.10	702922.63	706593.52	745392.88	759100.50	93	293	2015
1541.00	49584.00	49839.60	712910.45	717361.80	705996.21	722545.11	37	225	2015
1541.10	50107.00	50491.00	697393.54	703138.04	759057.68	780501.59	72	274	2015
1541.11	50764.20	50957.30	703113.59	706784.59	745444.57	759152.36	72	274	2015
1542.00	49188.50	49482.30	713119.56	717864.43	704923.40	722594.75	37	225	2015
1542.10	51566.70	51879.50	698029.28	702818.41	761043.06	778913.45	72	274	2015
1542.12	33262.30	33519.30	702792.94	706971.57	745497.05	761131.00	94	295	2015
1543.00	40018.00	40295.80	713310.60	718049.72	704975.93	722648.65	26	213	2015
1543.10	52008.40	52336.30	698297.27	703527.85	759162.00	778672.43	72	274	2015
1543.11	49325.80	49536.80	703496.45	707162.85	745548.02	759251.38	93	293	2015
1544.00	39554.40	39832.90	713507.76	718239.57	705029.77	722697.82	26	213	2015
1544.10	52518.10	52828.10	698493.73	703206.76	761142.85	778722.55	72	274	2015
1544.11	48614.50	48854.40	703177.74	707437.99	745596.64	761235.55	93	293	2015
1545.00	39114.10	39407.40	713698.51	718441.39	705082.21	722752.15	26	213	2015
1545.10	52986.70	53266.30	699064.78	703393.09	761197.55	777358.71	72	274	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1545.12	32456.20	32706.10	703370.45	707559.41	745650.86	761289.79	94	295	2015
1546.00	38677.40	38965.70	713891.25	718622.45	705133.70	722801.63	26	213	2015
1546.10	53403.20	53683.50	699392.92	703586.31	761249.71	776896.97	72	274	2015
1546.11	47259.30	47490.50	703561.04	707747.92	745706.37	761342.56	93	293	2015
1547.00	38228.20	38533.90	714079.99	718820.47	705184.03	722853.00	26	213	2015
1547.10	53809.30	54080.10	699586.87	703782.67	761294.59	776949.11	72	274	2015
1547.11	46563.90	46803.80	703754.53	707945.54	745754.81	761387.62	93	293	2015
1548.00	37793.40	38090.30	714277.53	719005.89	705236.95	722906.68	26	213	2015
1548.10	32439.90	32965.40	700102.76	708141.24	745805.82	775811.53	77	281	2015
1549.00	37367.80	37671.90	714472.70	719208.80	705288.11	722959.75	26	213	2015
1549.10	33091.80	33607.50	700448.33	708313.97	745857.56	775292.77	77	281	2015
1550.00	60256.80	60562.10	714667.44	719377.31	705341.95	723012.02	37	225	2015
1550.11	35375.20	35851.80	700686.63	708524.34	745906.03	775169.82	91	291	2015
1551.00	43563.40	43855.10	714855.97	719587.19	705392.39	723060.15	87	288	2015
1551.11	34366.10	34853.00	700880.19	708715.81	745963.20	775220.62	91	291	2015
1552.00	43985.40	44300.00	715047.21	719780.19	705444.38	723114.87	87	288	2015
1552.10	34849.90	35338.50	701483.83	708918.09	746014.07	773741.41	77	281	2015
1553.00	44423.70	44728.00	715241.17	719976.58	705497.00	723166.36	87	288	2015
1553.10	35455.40	35928.10	701782.37	709107.76	746067.14	773396.63	77	281	2015
1554.00	44878.90	45202.80	715430.12	720168.12	705551.28	723217.54	87	288	2015
1554.10	36057.50	36502.10	701983.24	708757.48	748130.29	773443.21	77	281	2015
1554.11	46494.70	46528.30	708740.66	709300.63	746113.31	748227.36	93	293	2015
1555.00	34566.30	34869.90	715625.73	720358.86	705599.57	723266.62	96	298	2015
1555.11	47805.30	48231.00	702167.64	709449.17	746167.40	773495.16	91	291	2015
1556.01	34179.70	34460.70	715825.73	720551.02	705648.08	723322.59	96	298	2015
1556.10	37198.50	37654.00	702368.54	709149.89	748238.72	773546.90	77	281	2015
1556.11	47180.00	47211.30	709116.55	709689.91	746220.47	748331.57	93	293	2015
1557.00	47030.50	47302.70	716018.19	720746.57	705700.74	723374.96	83	285	2015
1557.11	34937.90	35330.50	702565.71	709881.36	746270.96	773597.38	91	291	2015
1558.00	46585.80	46915.50	716206.19	720941.98	705756.98	723422.30	83	285	2015
1558.11	33883.50	34325.50	702753.49	710075.65	746322.09	773650.60	91	291	2015
1559.00	46202.20	46464.50	716415.46	721144.64	705805.75	723472.48	83	285	2015
1559.10	38968.80	39361.50	702949.96	709211.54	750329.20	773703.74	77	281	2015
1559.11	46183.30	46242.20	709177.22	710272.90	746377.83	750422.68	93	293	2015
1560.00	45501.60	45612.10	719729.40	721318.78	705858.05	711847.27	83	285	2015
1560.01	45883.50	46104.10	716589.26	719745.87	711751.67	723526.13	83	285	2015
1560.12	47324.10	47766.70	703142.19	710450.21	746426.56	773758.28	91	291	2015
1561.00	45086.80	45361.20	716786.82	721527.88	705910.92	723579.99	83	285	2015
1561.10	62182.80	62686.90	703331.36	710652.21	746477.54	773807.30	75	280	2015
1562.00	44632.80	44973.20	716974.96	721707.77	705961.56	723630.10	83	285	2015
1562.10	61597.60	62111.70	703522.16	710850.91	746526.88	773860.73	75	280	2015
1563.00	44217.10	44462.40	717669.78	721909.17	705995.93	721827.52	83	285	2015
1563.10	61007.50	61502.50	703724.24	711025.64	746581.21	773911.91	75	280	2015
1564.00	43732.80	44057.50	717497.11	722125.63	705993.13	722565.52	83	285	2015
1564.10	60438.30	60928.90	703913.60	711232.39	746633.14	773960.21	75	280	2015
1565.00	43339.60	43595.30	717853.56	722331.24	705996.03	723097.11	83	285	2015
1565.10	59811.30	60325.50	704101.00	711416.56	746683.76	774015.93	75	280	2015
1566.00	42919.90	43256.30	717742.55	722525.62	705994.59	723838.21	83	285	2015
1566.10	59248.80	59742.60	704286.09	711616.12	746735.27	774066.92	75	280	2015
1567.00	48678.80	48959.30	717946.08	722722.01	705995.34	723890.23	37	225	2015
1567.10	58630.40	59133.10	704493.07	711810.19	746790.63	774115.41	75	280	2015
1568.00	42569.90	42783.50	719181.22	722950.48	705996.25	720076.91	83	285	2015
1568.10	58077.20	58555.40	704686.90	712011.59	746838.21	774170.89	75	280	2015
1569.00	42201.90	42469.30	719370.52	723153.89	705994.57	720128.51	83	285	2015
1569.10	57443.60	57942.80	704868.27	712199.75	746891.38	774218.14	75	280	2015
1570.00	41850.20	42062.20	719555.55	723360.19	705998.05	720178.70	83	285	2015
1570.10	56892.20	57364.50	705072.52	712395.09	746944.23	774271.20	75	280	2015
1571.00	41463.40	41746.50	719747.42	723564.89	705992.88	720233.36	83	285	2015
1571.10	56272.10	56775.00	705259.67	712576.52	746996.18	774323.50	75	280	2015
1572.00	41114.50	41328.00	719953.34	723783.28	705994.49	720281.25	83	285	2015
1572.10	55708.70	56190.40	705447.10	712772.78	747047.33	774377.76	75	280	2015
1573.00	40740.10	41021.00	720136.38	723973.46	705996.69	720334.46	83	285	2015
1573.10	55076.00	55587.70	705649.57	712987.14	747096.15	774429.99	75	280	2015
1574.00	40352.40	40569.30	720341.83	724202.49	705994.09	720388.73	83	285	2015
1574.11	37896.10	38329.70	705841.60	713164.76	747152.46	774478.17	94	295	2015
1575.00	39991.00	40275.70	720513.27	724395.68	705995.17	720440.44	83	285	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1575.10	53911.10	54414.30	706039.11	713353.69	747203.57	774531.59	75	280	2015
1576.00	39620.10	39834.50	720722.24	724610.61	705992.41	720492.36	83	285	2015
1576.10	53361.70	53838.60	706220.86	713555.34	747252.98	774581.79	75	280	2015
1577.00	39235.80	39519.20	720902.32	724816.87	705992.36	720547.31	83	285	2015
1577.10	52758.20	53265.10	706416.49	713747.37	747306.55	774636.30	75	280	2015
1578.00	38888.80	39106.70	721104.15	725017.83	705991.27	720596.68	83	285	2015
1578.10	52207.40	52686.10	706623.90	713934.64	747358.75	774690.02	75	280	2015
1579.00	38517.60	38824.60	721295.13	725521.55	704911.84	720650.25	83	285	2015
1579.10	51631.50	52137.30	706805.63	714127.60	747411.51	774738.14	75	280	2015
1580.00	38157.30	38399.30	721489.01	725709.26	704962.19	720701.21	83	285	2015
1580.10	51093.90	51564.60	706992.83	714319.00	747458.57	774792.76	75	280	2015
1581.00	37738.50	38044.90	721688.54	725906.43	705012.85	720750.52	83	285	2015
1581.10	40752.90	41229.70	707187.78	714510.56	747511.66	774844.66	77	281	2015
1582.00	37309.00	37553.50	721891.57	726103.67	705064.96	720801.38	83	285	2015
1582.10	41372.30	41858.20	707386.62	714710.04	747565.00	774892.64	77	281	2015
1583.00	36888.40	37207.50	722077.32	726285.26	705117.25	720856.50	83	285	2015
1583.10	41962.80	42438.30	707567.95	714889.49	747617.67	774945.03	77	281	2015
1584.00	36444.30	36685.90	722266.38	726474.18	705171.14	720905.02	83	285	2015
1584.10	42595.10	43090.70	707774.82	715086.55	747667.71	774999.76	77	281	2015
1585.00	36020.40	36336.30	722458.24	726679.44	705220.71	720959.92	83	285	2015
1585.10	43207.50	43686.10	707964.99	715270.82	747721.40	775048.99	77	281	2015
1586.00	35601.90	35833.30	722651.58	726877.42	705269.29	721007.32	83	285	2015
1586.10	51047.70	51538.00	708162.93	715477.75	747771.47	775099.33	77	281	2015
1587.00	35192.10	35390.90	724404.71	727059.20	705322.82	715265.70	83	285	2015
1587.10	51683.60	52116.90	708347.28	715130.30	749838.59	775151.73	77	281	2015
1587.11	45383.00	45420.20	715110.06	715678.58	747826.70	749932.17	89	289	2015
1588.00	34837.80	34982.50	724585.63	727254.45	705376.76	715314.05	83	285	2015
1588.10	52246.00	52686.10	708547.84	715327.84	749901.98	775202.16	77	281	2015
1588.11	45765.30	45802.70	715298.33	715864.23	747877.81	749996.17	89	289	2015
1589.00	60513.20	60676.50	724785.39	727455.32	705429.92	715369.42	68	271	2015
1589.10	52828.90	53256.50	708738.31	715526.54	749947.96	775257.86	77	281	2015
1589.11	46146.70	46183.80	715499.30	716072.23	747925.69	750047.31	89	289	2015
1590.00	60195.20	60405.70	724978.28	727631.98	705478.59	715421.94	68	271	2015
1590.10	53389.70	53853.50	708941.06	715715.20	750001.98	775306.18	77	281	2015
1590.11	46487.30	46523.30	715693.96	716261.02	747981.26	750094.86	89	289	2015
1591.00	59919.30	60079.20	725188.62	727832.08	705529.42	715474.99	68	271	2015
1591.10	54004.70	54441.40	709116.10	715914.01	750048.62	775361.03	77	281	2015
1591.11	46806.80	46843.30	715884.33	716453.87	748030.07	750146.48	89	289	2015
1592.00	59618.60	59801.90	725364.97	728024.54	705583.22	715522.98	68	271	2015
1592.10	54594.60	55060.90	709326.43	716100.03	750097.09	775408.57	77	281	2015
1592.11	47122.10	47157.50	716082.08	716649.45	748082.72	750194.29	89	289	2015
1593.00	59339.10	59498.50	725561.58	728220.52	705634.60	715577.59	68	271	2015
1593.10	55233.90	55648.40	709508.24	716288.14	750146.78	775465.60	77	281	2015
1593.11	47434.70	47470.70	716275.39	716836.93	748132.05	750240.61	89	289	2015
1594.00	59020.50	59220.20	725745.41	728414.84	705687.34	715629.49	68	271	2015
1594.10	55804.50	56258.50	709711.07	716494.99	750198.91	775516.73	77	281	2015
1594.11	47765.40	47801.80	716466.75	717027.39	748184.08	750288.52	89	289	2015
1595.00	58717.50	58884.20	725949.81	728608.60	705739.65	715677.64	68	271	2015
1595.10	56427.30	56729.60	711995.39	716689.07	750255.44	767742.10	77	281	2015
1595.11	47859.00	47896.60	716644.54	717218.93	748239.14	750349.00	89	289	2015
1595.12	38706.70	38856.00	709901.69	712015.75	767648.44	775566.19	94	295	2015
1596.00	58399.60	58584.60	726134.23	728796.55	705789.91	715734.90	68	271	2015
1596.10	57002.90	57447.30	710092.81	716885.40	750312.93	775614.80	77	281	2015
1596.11	47521.40	47561.00	716837.83	717405.62	748290.63	750409.82	89	289	2015
1597.00	58103.50	58265.70	726334.43	728985.94	705838.77	715786.73	68	271	2015
1597.10	57590.20	58006.60	710280.34	717065.51	750353.64	775670.26	77	281	2015
1597.11	47190.20	47230.70	717037.21	717621.38	748342.36	750445.17	89	289	2015
1598.00	57793.40	57978.50	726525.82	729188.90	705893.63	715836.61	68	271	2015
1598.10	58143.10	58599.30	710481.90	717274.53	750414.47	775720.22	77	281	2015
1598.11	46882.10	46922.70	717232.37	717810.19	748390.92	750510.76	89	289	2015
1599.00	57493.70	57655.60	726710.50	729382.77	705944.77	715889.98	68	271	2015
1599.10	58735.10	59171.50	710673.77	717459.04	750460.54	775771.81	77	281	2015
1599.11	46577.80	46617.70	717423.46	717995.85	748443.87	750553.71	89	289	2015
1600.00	57217.90	57402.60	726902.63	729576.20	705994.52	715938.64	68	271	2015
1600.10	59303.50	59772.60	710877.39	717666.74	750507.11	775824.05	77	281	2015
1600.11	46244.20	46282.00	717617.21	718190.08	748495.93	750602.81	89	289	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1601.00	56921.60	57086.00	727100.12	729788.10	705992.73	715992.98	68	271	2015
1601.10	59932.70	60353.60	711053.23	717844.03	750574.49	775879.33	77	281	2015
1601.11	45882.90	45924.20	717803.51	718380.54	748548.80	750672.32	89	289	2015
1602.00	56634.20	56823.80	727293.88	729996.71	705991.33	716044.05	68	271	2015
1602.10	60492.00	60940.80	711253.16	718032.76	750617.94	775927.03	77	281	2015
1602.11	45500.70	45540.70	718003.79	718574.52	748603.32	750715.64	89	289	2015
1603.00	56337.30	56508.00	727492.80	730200.10	705995.50	716094.33	68	271	2015
1603.10	61079.80	61533.90	711435.12	718228.21	750669.71	775984.56	77	281	2015
1603.11	45105.20	45146.40	718203.78	718766.16	748654.16	750760.63	89	289	2015
1604.00	56022.10	56207.40	727687.94	730404.16	705994.89	716145.22	68	271	2015
1604.10	47362.70	47826.30	711635.88	718971.22	748702.87	776035.51	85	286	2015
1605.00	55708.70	55870.60	727874.97	730609.96	705995.19	716193.94	68	271	2015
1605.10	48648.10	49124.00	711834.41	719149.66	748758.95	776086.20	85	286	2015
1606.00	55391.40	55577.00	728077.71	730816.36	705994.02	716248.59	68	271	2015
1606.10	54387.80	54857.10	712026.67	719344.66	748807.60	776137.38	87	288	2015
1607.00	55105.70	55272.40	728272.07	731031.16	705994.73	716301.19	68	271	2015
1607.10	55544.30	56020.10	712231.81	719542.62	748858.73	776184.80	87	288	2015
1608.00	54796.60	55004.80	728446.47	731225.88	705993.59	716355.56	68	271	2015
1608.10	56662.80	57156.00	712417.51	719731.14	748910.35	776239.93	87	288	2015
1609.00	54517.70	54677.70	728654.25	731448.09	705994.46	716406.66	68	271	2015
1609.10	57864.90	58321.90	712619.29	719926.82	748961.08	776287.79	87	288	2015
1610.00	54203.30	54414.50	728835.27	731642.30	705994.02	716459.74	68	271	2015
1610.10	58974.80	59430.50	712811.01	720115.90	749014.84	776342.09	87	288	2015
1611.00	53919.40	54058.90	729020.31	731856.43	705996.50	716510.20	68	271	2015
1611.10	60066.60	60509.20	713003.70	720310.92	749066.16	776394.46	87	288	2015
1612.00	53626.30	53815.20	729224.55	732058.29	705996.40	716559.16	68	271	2015
1612.10	61143.10	61600.50	713185.43	720506.28	749115.57	776448.77	87	288	2015
1613.01	53315.40	53486.40	729417.96	732265.33	705995.75	716613.37	68	271	2015
1613.10	39351.40	39868.00	713375.54	720695.05	749166.54	776497.77	89	289	2015
1614.00	42235.20	42698.90	713582.09	720891.32	749221.78	776548.33	89	289	2015
1615.00	43429.80	43892.00	713773.29	721078.96	749275.24	776601.33	89	289	2015
1616.00	44572.10	45041.40	713963.92	721282.34	749327.93	776652.48	89	289	2015
1617.00	43963.50	44487.90	714150.57	721466.90	749373.87	776703.94	89	289	2015
1618.00	47887.30	48406.90	714337.83	721623.26	749430.24	776757.89	85	286	2015
1619.00	49189.60	49718.50	714536.13	721813.49	749480.99	776809.57	85	286	2015
1620.00	54920.00	55427.00	714733.72	722033.87	749530.55	776860.90	87	288	2015
1621.00	56089.90	56576.90	714924.39	722236.91	749582.23	776911.92	87	288	2015
1622.00	57232.10	57746.10	715110.73	722433.00	749634.31	776960.64	87	288	2015
1623.00	58391.60	58889.80	715304.58	722625.26	749684.03	777017.77	87	288	2015
1624.00	59497.90	59973.20	715513.85	722818.06	749741.21	777065.53	87	288	2015
1625.00	60575.90	61062.20	715693.91	723009.22	749790.75	777120.89	87	288	2015
1626.00	38824.70	39275.70	715891.78	723204.09	749841.10	777171.89	89	289	2015
1627.00	39978.10	40436.40	716086.87	723406.82	749895.21	777223.73	89	289	2015
1628.00	42795.30	43333.10	716269.70	723601.00	749945.64	777277.09	89	289	2015
1629.00	41616.60	42147.50	716458.13	723774.13	749996.57	777327.48	89	289	2015
1630.00	60932.20	61318.50	716665.17	723434.93	752066.15	777378.99	83	285	2015
1630.01	41262.50	41304.00	723409.21	723977.45	750047.52	752163.60	89	289	2015
1631.00	60331.90	60838.40	716852.00	723633.79	752133.69	777427.89	83	285	2015
1631.01	41136.60	41174.30	723610.51	724178.53	750099.44	752233.14	89	289	2015
1632.00	59852.90	60245.90	717044.72	723823.91	752177.83	777477.04	83	285	2015
1632.01	40879.60	40921.20	723792.80	724366.74	750151.92	752268.51	89	289	2015
1633.00	59238.80	59742.70	717247.22	724013.55	752225.21	777532.62	83	285	2015
1633.01	40757.00	40792.60	723994.85	724566.03	750202.48	752320.09	89	289	2015
1634.00	58766.10	59153.60	717439.34	724210.85	752283.46	777585.62	83	285	2015
1634.01	40499.10	40537.70	724179.03	724754.53	750254.16	752377.64	89	289	2015
1635.00	58146.50	58422.40	721244.02	724950.14	750307.27	764114.34	83	285	2015
1636.00	57801.50	58019.40	721446.95	725131.99	750357.20	764161.83	83	285	2015
1637.00	57419.20	57688.50	721636.15	725331.17	750412.65	764215.75	83	285	2015
1638.00	57085.00	57299.60	721836.52	725514.89	750460.11	764271.35	83	285	2015
1639.00	56677.70	56921.70	722539.67	725718.14	750511.98	762391.34	83	285	2015
1640.00	56381.40	56566.50	722736.99	725912.38	750563.29	762442.12	83	285	2015
1641.00	56035.10	56279.50	722919.48	726106.70	750617.82	762493.14	83	285	2015
1642.00	55729.00	55919.60	723114.81	726299.21	750672.81	762546.23	83	285	2015
1643.00	55376.30	55625.90	723318.51	726489.70	750721.69	762595.51	83	285	2015
1644.00	55082.90	55273.90	723499.08	726685.85	750772.35	762649.95	83	285	2015
1645.00	54788.40	54992.00	723693.05	726361.41	752757.48	762698.48	83	285	2015

FEM FLOWN LINES - Tellus T1 Block
IRENET95, Irish Transverse Mercator

LINE	TIME	TIME	MIN X	MAX X	MIN Y	MAX Y	FLIGHT	DAY	YEAR
1646.00	54527.90	54679.60	723896.13	726549.79	752810.18	762747.60	83	285	2015
1647.00	45915.00	46091.30	724080.65	726757.57	752860.01	762800.35	82	284	2015
1648.00	45639.40	45815.40	724273.89	726936.62	752910.97	762855.78	82	284	2015
1649.00	45341.50	45521.80	724465.85	727148.00	752965.14	762904.14	82	284	2015
1650.00	45060.10	45238.20	724676.04	727321.91	753015.27	762958.62	82	284	2015
1651.00	44759.00	44941.10	724861.65	727524.73	753069.10	763010.03	82	284	2015
1652.00	44488.10	44661.60	725053.74	727713.35	753118.19	763063.39	82	284	2015
1653.00	44208.00	44375.90	725240.31	727910.53	753171.18	763113.29	82	284	2015
1654.00	43937.30	44096.50	725437.96	728105.38	753221.85	763168.59	82	284	2015
1655.00	43655.90	43826.60	725631.49	728305.58	753276.52	763215.89	82	284	2015
1656.00	43396.40	43556.20	725829.98	728487.87	753326.49	763272.10	82	284	2015
1657.00	43105.60	43290.20	726004.37	728681.44	753376.96	763323.06	82	284	2015
1658.00	42845.20	43013.70	726208.27	728876.02	753432.50	763371.08	82	284	2015
1659.00	42567.20	42747.90	726403.79	729071.69	753480.06	763423.09	82	284	2015
1660.00	42334.90	42487.10	726588.39	729267.11	753532.67	763473.15	82	284	2015



Appendix IV



Reflights

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
126.00	5	126.01	75	FEM issues
127.00	5	127.01	75	FEM issues
128.00	7	128.01	75	FEM issues
129.00	7	129.01	75	FEM issues
1013.00	3	1013.01	11	FEM issues
1014.00	3	1014.01	11	FEM issues
1015.00	3	1015.01	11	FEM issues
1028.00	5	1028.01	75	FEM too noisy
1029.00	5	1029.01	75	FEM too noisy
1030.00	5	1030.01	75	FEM too noisy
1031.00	5	1031.01	75	FEM too noisy
1032.00	5	1032.01	75	FEM too noisy
1033.00	5	1033.01	75	FEM too noisy
1034.00	5	1034.01	66	FEM too noisy
1035.00	5	1035.01	66	FEM too noisy
1036.00	5	1036.01	66	FEM too noisy
1037.00	5	1037.01	66	FEM too noisy
1038.00	5	1038.01	66	FEM too noisy
1039.00	5	1039.01	66	FEM too noisy
1040.00	7	1040.01	66	FEM issues
1041.00	7	1041.01	66	FEM issues
1042.00	7	1042.01	66	FEM issues
1043.00	7	1043.01	66	FEM issues
1044.00	7	1044.01	66	FEM issues
1045.00	7	1045.01	66	FEM issues
1046.00	7	1046.01	65	FEM issues
1047.00	7	1047.01	65	FEM issues
1048.00	7	1048.01	65	FEM issues
1049.00	7	1049.01	65	FEM issues
1050.00	7	1050.01	65	FEM issues
1051.00	7	1051.01	65	FEM issues
1052.00	7	1052.01	65	FEM issues
1053.00	10	1053.01	65	FEM too noisy
1054.00	10	1054.01	65	FEM too noisy
1055.00	10	1055.01	65	FEM too noisy
1056.00	10	1056.01	65	FEM too noisy
1057.00	10	1057.01	65	FEM too noisy
1058.00	10	1058.01	65	FEM too noisy
1059.00	10	1059.01	65	FEM too noisy
1060.00	10	1060.01	65	FEM too noisy
1061.00	10	1061.01	65	FEM too noisy

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
1062.00	10	1062.01	65	FEM too noisy
1063.00	10	1063.01	65	FEM too noisy
1070.00	11	1070.01	94	Large deviation from line
1082.00	13	1082.01	94	FEM issues
1112.00	15	1112.01	98	FEM issues
1113.00	13	1113.01	94	FEM drifting due to rain
1127.00	17	1127.01	94	FEM issues
1163.00	21	1163.01	75	Large deviation from line due to aircraft traffic
1165.00	21	1165.01	75	FEM issues
1173.00	18	1173.01	94	FEM issues
1180.00	18	1180.01	98	FEM issues
1229.00	23	1229	98	FEM issues
1234.00	23	1234.01	98	FEM issues
1235.00	23	1235.01	75	Large deviation from line
1236.00	25	1236.01	98	FEM issues
1248.00	25	1248.01	98	FEM issues
1292.00	30	1292.01	75	FEM drifting due to rain
1293.00	30	1293.01	75	FEM drifting due to rain
1364.00	54	1364.01	71	FEM issues
1369.00	71	1369.01	97	FEM issues
1378.00	41	1378.01	96	FEM issues
1388.01	41	ND FEM		FEM issues
1409.00	37	1409.01	97	FEM issues
1410.00	37	1410.01	97	FEM issues
1416.00	44	1416.01	94	FEM issues
1431.00	44	1431.01	95	FEM issues
1457.00	55	1457.01	57	FEM issues
1473.01	99	1473.02	100	FEM too noisy
1474.01	99	1474.02	100	FEM too noisy
1474.02	99	1474.03	100	FEM too noisy
1475.01	99	1475.02	100	FEM too noisy
1476.01	99	1476.02	100	FEM too noisy
1477.01	99	1477.02	100	FEM too noisy
1538.00	26	1538.01	38	FEM issues
1542.11	94	1542.12	94	Poor intercept
1545.11	93	1545.12	94	Poor intercept
1574.10	76	1574.11	94	FEM issues
1595.10	78	1595.12	94	RA GLITCH – north end of line
1613.00	68	1613.01	68	Poor intercept

Partials

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
110.00	71	110.01	87	Partial due to DUB ATC controlled airspace
111.00	71	111.01	87	Partial due to DUB ATC controlled airspace
115.00	64	115.01	90	Casement (military air force base)
116.00	64	116.01	90	Casement (military air force base)
117.00	64	117.01	79	Partial due to DUB ATC controlled airspace and Clonbulloge (skydiving)
118.00	64	118.01	79	Partial due to DUB ATC controlled airspace and Clonbulloge (skydiving)
119.00	64	119.01	64	Partial due to DUB ATC controlled airspace and Clonbulloge (skydiving)
119.01	64	119.01	79	Partial due to DUB ATC controlled airspace and Clonbulloge (skydiving)
121.00	80	121.01	86	Partial due to DUB ATC controlled airspace
122.00	86	122.01	86	Partial due to DUB ATC controlled airspace
124.00	80	124.01	86	Partial due to DUB ATC controlled airspace
125.00	80	125.01	80	Partial due to DUB ATC controlled airspace
1388.00	35	1388.01	41	Partial due to PR logistics
1389.00	35	1389.01	41	Partial due to PR logistics
1390.00	35	1390.01	41	Partial due to PR logistics
1391.00	35	1391.01	41	Partial due to PR logistics
1392.00	35	1392.01	41	Partial due to PR logistics
1393.00	35	1393.01	41	Partial due to PR logistics
1422.00	40	1422.01	40	Partial to avoid rain, completed same flight.
1423.00	40	1423.01	40	Partial to avoid rain, completed same flight.
1434.00	45	1434.01	46	Partial due to logistics and efficiency.
1435.00	47	1435.01	48	Partial due to logistics and efficiency.
1438.00	46	1438.01	46	Partial to avoid rain, completed same flight.
1439.00	46	1439.01	46	Partial to avoid rain, completed same flight.
1444.00	47	1444.01	47	Partial due to ATC, military airspace closure.
1447.00	47	1447.01	47	Partial due to ATC, military airspace closure.
1449.00	47	1449.01	57	Partial due to logistics and efficiency.
1450.00	55	1450.01	55	Partial to avoid rain, completed same flight.
1451.00	55	1451.01	55	Partial to avoid rain, completed same flight. Large deviation from line (tower, can not be avoided)
1457.00	55	1457.01	57	Partial due to logistics and efficiency.
1458.00	57	1458.01	90	Partial due to logistics and efficiency.
1464.00	57	1464.01	57	Partial due to ATC, military airspace closure.
1464.01	57	1464.02	68	Partial to avoid fog (south end missing)
1465.00	57	1465.01	68	Partial to avoid fog (south end missing)
1466.00	57	1466.01	57	Partial due to ATC, military airspace closure.
1466.01	57	1466.02	87	Partial due to avoid fog (south end missing)
1467.00	57	1467.01	87	Partial due to avoid fog (south end missing)

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
1473.00	73	1473.01	99	Partial due to avoid fog (south end missing)
1474.00	73	1474.01	99	Partial due to avoid fog (south end missing)
1475.00	73	1475.01	99	Partial due to complaint (south end missing)
1476.00	73	1476.01	99	Partial due to complaint (south end missing)
1477.00	73	1477.01	99	Partial due to avoid fog (south end missing)
1478.00	73	1478.01	73	Partial due to logistics and efficiency.
1478.01	73	1478.02	96	Partial due to avoid fog (south end missing)
1479.00	73	1479.01	96	Partial due to avoid fog (south end missing)
1480.00	73	1480.01	96	Partial due to avoid fog (south end missing)
1481.00	73	1481.01	96	Partial due to complaint (south end missing)
1482.00	73	1482.01	96	Partial due to complaint (south end missing)
1483.00	73	1483.01	96	Partial due to complaint (south end missing)
1484.00	73	1484.01	96	Partial due to complaint (south end missing)
1485.00	73	1485.01	96	Partial due to complaint (south end missing)
1486.00	73	1486.01	96	Partial due to complaint (south end missing)
1487.00	81	1487.01	96	Partial due to avoid fog (south end missing)
1488.00	81	1488.01	96	Partial due to avoid fog (south end missing)
1489.00	81	1489.01	96	Partial due to avoid fog (south end missing)
1490.00	81	1490.01	96	Partial due to avoid fog (south end missing)
1491.00	81	1491.01	96	Partial due to avoid fog (south end missing)
1492.00	81	1492.01	96	Partial due to avoid fog (south end missing)
1493.00	64	1493.01	81	Partial due to logistics and efficiency.
1493.01	81	1493.02	87	Partial due to avoid fog (south end missing)
1494.00	81	1494.01	87	Partial due to avoid fog (south end missing)
1495.00	82	1495.01	82	Partial due to DUB ATC controlled airspace
1495.01	82	1495.02	87	Partial due to avoid fog (south end missing)
1495.02	87	1495.03	89	Partial due to avoid fog (north end missing)
1495.03	89	1495.04	90	Casement (military air force base)
1496.00	82	1496.01	82	Partial due to DUB ATC controlled airspace
1496.01	82	1496.02	87	Partial due to avoid fog (south end missing)
1496.02	87	1496.03	89	Partial due to avoid fog (north end missing)
1496.03	89	1496.04	90	Casement (military air force base)
1497.00	82	1497.01	82	Partial due to DUB ATC controlled airspace
1497.01	82	1497.02	89	Partial due to avoid fog (north end missing)
1497.02	89	1497.03	90	Casement (military air force base)
1498.00	82	1498.01	82	Partial due to DUB ATC controlled airspace
1498.01	82	1498.02	89	Partial due to avoid fog (north end missing)
1498.02	89	1498.03	90	Casement (military air force base)
1499.00	64	1499.01	82	Partial due to DUB ATC controlled airspace and fog
1499.01	82	1499.02	82	Partial due to DUB ATC controlled airspace
1499.02	82	1499.03	89	Partial due to avoid fog (north end missing)
1499.03	89	1499.04	90	Casement (military air force base)

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
1500.03	82	1500.04	90	Casement (military air force base)
1500.00	64	1500.01	64	Partial due to DUB ATC controlled airspace
1500.01	64	1500.02	64	Partial due to DUB ATC controlled airspace
1500.02	64	1500.03	82	Partial due to DUB ATC controlled airspace and fog
1508.10	63	1508.11	85	Partial due to DUB ATC controlled airspace
1509.10	63	1509.11	85	Partial due to DUB ATC controlled airspace
1510.10	63	1510.11	94	Partial due to DUB ATC controlled airspace
1511.10	63	1511.11	94	Partial due to DUB ATC controlled airspace
1512.10	63	1512.11	94	Partial due to DUB ATC controlled airspace
1513.10	63	1513.11	94	Partial due to DUB ATC controlled airspace
1514.10	63	1514.11	94	Partial due to DUB ATC controlled airspace
1515.10	63	1515.11	94	Partial due to DUB ATC controlled airspace
1516.10	63	1516.11	94	Partial due to DUB ATC controlled airspace
1517.10	63	1517.11	93	Partial due to DUB ATC controlled airspace
1518.10	63	1518.11	93	Partial due to DUB ATC controlled airspace
1520.10	63	1520.11	63	Partial due to DUB ATC controlled airspace
1521.10	62	1521.11	93	Partial due to DUB ATC controlled airspace
1524.10	62	1524.11	62	Partial due to DUB ATC controlled airspace
1527.10	72	1527.11	72	Partial due to DUB ATC controlled airspace, completed same flight.
1528.10	72	1528.11	93	Partial due to DUB ATC controlled airspace
1529.10	72	1529.11	93	Partial due to DUB ATC controlled airspace
1530.10	72	1530.11	94	Partial due to DUB ATC controlled airspace
1531.10	72	1531.11	93	Partial due to DUB ATC controlled airspace
1532.10	72	1532.11	93	Partial due to DUB ATC controlled airspace
1533.10	72	1533.11	93	Partial due to DUB ATC controlled airspace
1534.10	72	1534.11	93	Partial due to DUB ATC controlled airspace
1535.10	72	1535.11	93	Partial due to DUB ATC controlled airspace
1536.10	72	1536.11	93	Partial due to DUB ATC controlled airspace
1537.10	72	1537.11	93	Partial due to DUB ATC controlled airspace
1538.00	26	1538.01	38	Reflown by accident
1538.10	72	1538.11	93	Partial due to DUB ATC controlled airspace
1539.10	72	1539.11	93	Partial due to DUB ATC controlled airspace
1540.10	72	1540.11	93	Partial due to DUB ATC controlled airspace
1541.10	72	1541.11	72	Partial due to DUB ATC controlled airspace, completed same flight.
1542.10	72	1542.11	93	Partial due to DUB ATC controlled airspace
1543.10	72	1543.11	93	Partial due to DUB ATC controlled airspace
1544.10	72	1544.11	93	Partial due to DUB ATC controlled airspace
1545.10	72	1545.11	93	Partial due to DUB ATC controlled airspace
1546.10	72	1546.11	93	Partial due to DUB ATC controlled airspace
1547.10	72	1547.11	93	Partial due to DUB ATC controlled airspace
1550.10	77	1550.11	91	Partial due to DUB ATC controlled airspace

Original Flight		Re-Flights		
Line	Flight	Line	Flight	Reason
1551.10	77	1551.11	91	Partial due to DUB ATC controlled airspace
1554.10	77	1554.11	93	Partial due to DUB ATC controlled airspace
1555.10	77	1555.11	91	Partial due to DUB ATC controlled airspace
1556.00	83			Partial due to DUB ATC
1556.10	77	1556.11	93	Partial due to DUB ATC controlled airspace
1557.10	77	1557.11	91	Partial due to DUB ATC controlled airspace
1558.10	77	1558.11	91	Partial due to DUB ATC controlled airspace
1559.10	77	1559.11	93	Partial due to DUB ATC controlled airspace
1560.00	83	1560.01	83	Partial due to DUB ATC
1560.10	77	1560.11	77	Partial due to DUB ATC controlled airspace
1560.11	77	1560.12	91	Partial due to DUB ATC controlled airspace
1587.10	78	1587.11	89	Partial due to DUB ATC controlled airspace
1588.10	78	1588.11	89	Partial due to DUB ATC controlled airspace
1589.10	78	1589.11	89	Partial due to DUB ATC controlled airspace
1590.10	78	1590.11	89	Partial due to DUB ATC controlled airspace
1591.10	78	1591.11	89	Partial due to DUB ATC controlled airspace
1592.10	78	1592.11	89	Partial due to DUB ATC controlled airspace
1593.10	78	1593.11	89	Partial due to DUB ATC controlled airspace
1594.10	78	1594.11	89	Partial due to DUB ATC controlled airspace
1595.10	78	1595.11	89	Partial due to DUB ATC controlled airspace
1596.10	78	1596.11	89	Partial due to DUB ATC controlled airspace
1597.10	78	1597.11	89	Partial due to DUB ATC controlled airspace
1598.10	78	1598.11	89	Partial due to DUB ATC controlled airspace
1599.10	78	1599.11	89	Partial due to DUB ATC controlled airspace
1600.10	78	1600.11	89	Partial due to DUB ATC controlled airspace
1601.10	78	1601.11	89	Partial due to DUB ATC controlled airspace
1602.10	78	1602.11	89	Partial due to DUB ATC controlled airspace
1603.10	78	1603.11	89	Partial due to DUB ATC controlled airspace
1630.00	84	1630.01	89	Partial due to DUB ATC controlled airspace
1631.00	84	1631.01	89	Partial due to DUB ATC controlled airspace
1632.00	84	1632.01	89	Partial due to DUB ATC controlled airspace
1633.00	84	1633.01	89	Partial due to DUB ATC controlled airspace
1634.00	84	1634.01	89	Partial due to DUB ATC controlled airspace



Appendix V



Equipment List

Part	Serial No.	Description	Manufacturer
Aircraft C-GSGF	DHC-6-642	Twin Otter Series 300, DE HAVILLAND (SGF)	DE HAVILLAND
Barometric Sensor	1347373	HONEYWELL MODEL TJE ABSOLUTE PRESSURE SENSOR	HONEYWELL
Collins Rad Alt	7497	860F-1 Radio Altimeter	Collins
Data acquisition computer	CDAC-20	CPCI Data Acquisition computer	SGL
EM Computer	SGFEM-CI-01	Frequency EM Control Interface	SGL
Fluxgate Magnetometer	487	model TFM100G2-1E	Billingsley Magnetics
GPS Antenna	NZT07190039	Model 702L, w OMNISTAR, L1/L2 Kinematic GPS Antenna	Novatel
GPS Antenna	NVH04490022	Model 702, L1/L2 Kinematic GPS Antenna	Novatel
GPS Antenna	NVH03280020	model 702	Novatel
GPS Receiver	4101	Septentrio Dual frequency multi ant. GPS/SBAS receiver	Septentrio
Laser Profilometer	9996756	LD90-31K-HiP, 11-28VDC laser rangefinder.	Riegl
Magnetometer Sensor	75246-C517	model G-822A	Geometrics
Magnetometer Sensor	75368-C1576	model G-822A	Geometrics
Magnetometer Sensor	75421-C1961	model G-822A	Geometrics
Magnetometer Sensor	75287-C872	model G-822A	Geometrics
Magnetometer Sensor	75230-C365	model G-822A	Geometrics
Magnetometer Sensor	75231-C020	model G-822A	Geometrics
Magnetometer Sensor	75129-C057	model G-822A	Geometrics
SGRef Station	M-SGREF-65	CPCI ground station - 28Vdc input	SGL
SGRef Station	M-SGREF-64	CPCI ground station - 28Vdc input	SGL
Spectrometer	8222	GR 820 Gamma Ray Spectrum Processor	Exploranium
Spectrometer detector 5-pack	2645	GPX-1024/256, 5 - pack	Exploranium
Spectrometer detector 5-pack	2632	GPX-1024/256, 5 - pack	Exploranium
Spectrometer detector 5-pack	2664	GPX-1024/256, 5 - pack	Exploranium



Appendix VI



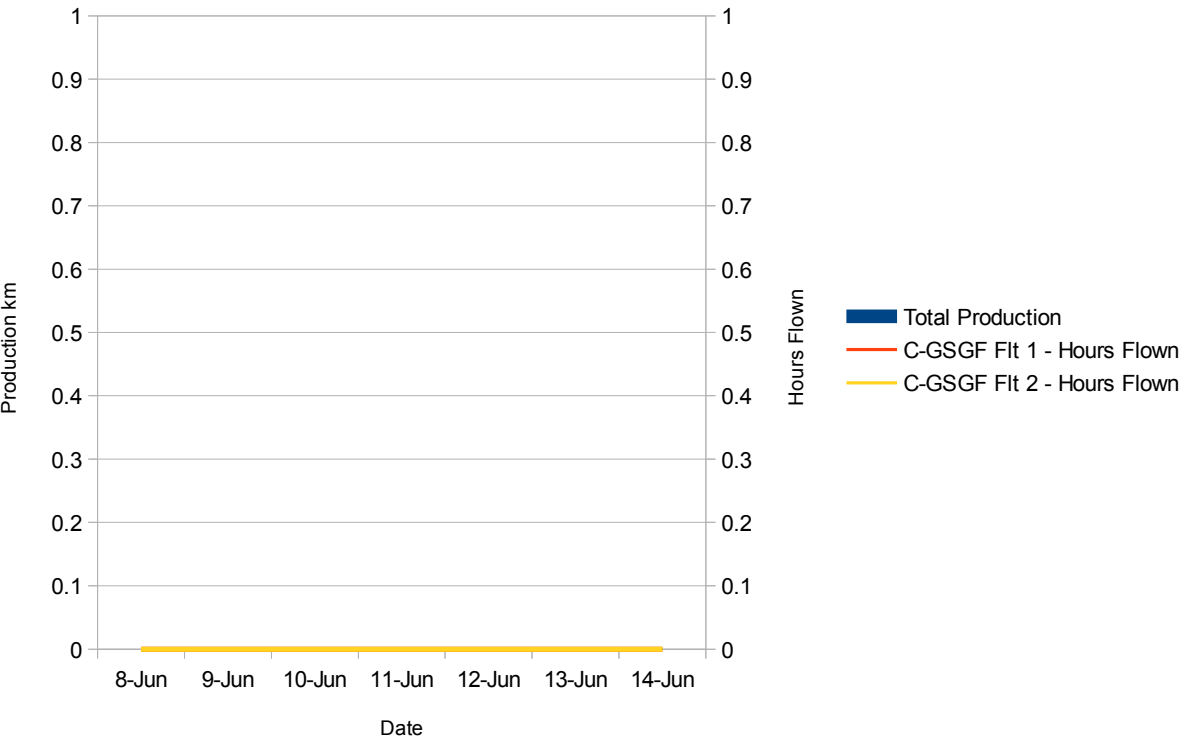


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief	9-Jun-15		ON SITE	6	6
Steve Gebhardt	Lead Pilot	9-Jun-15		ON SITE	6	6
Dwayne Bailey	AME				0	0
Todd Svarckopf	Chief Pilot				0	0
Charles Dicks	Pilot				0	0
Craig McMahon (1st trip)	Technician				0	0
Monika Pal	Geophysicist				0	0
Jason Thomas	Pilot				0	0
Jeff Tucker	Pilot				0	0
Craig McMahon (2nd trip)	Technician				0	0
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	90	90
Inductions	2	2
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		0
Tellus Complaints		0

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



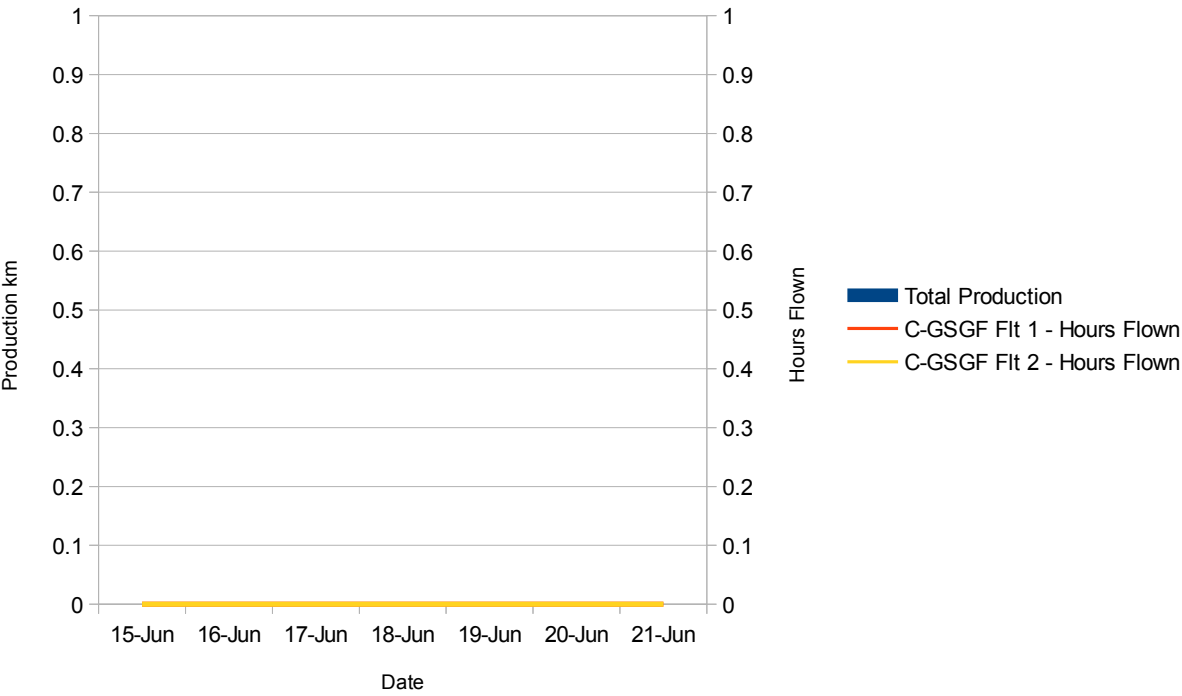


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	13
Steve Gebhardt	Lead Pilot			ON SITE	7	13
Dwayne Bailey	AME	18-Jun-15		ON SITE	4	4
Todd Svarckopf	Chief Pilot	21-Jun-15		ON SITE	1	1
Charles Dicks	Pilot	21-Jun-15		ON SITE	1	1
Craig McMahon (1st trip)	Technician	21-Jun-15		ON SITE	1	1
Monika Pal	Geophysicist				0	0
Jason Thomas	Pilot				0	0
Jeff Tucker	Pilot				0	0
Craig McMahon (2nd trip)	Technician				0	0
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	157.5	247.5
Inductions	4	6
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		0
Tellus Complaints		0

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



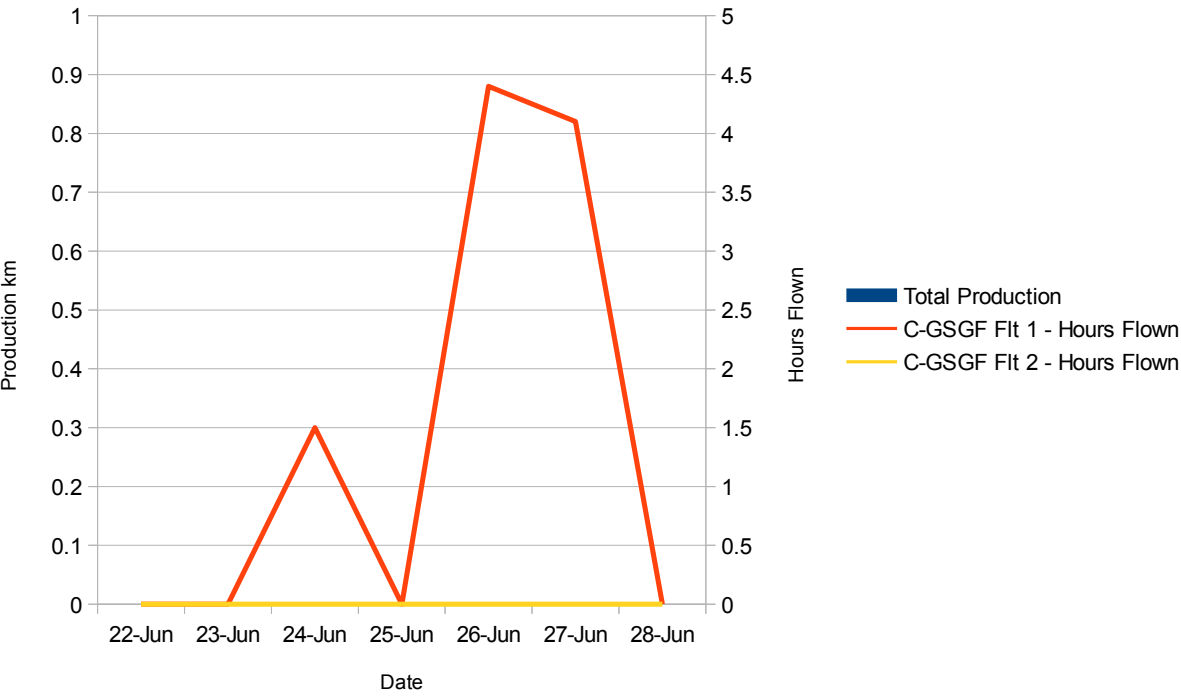


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	20
Steve Gebhardt	Lead Pilot			ON SITE	7	20
Dwayne Bailey	AME			ON SITE	7	11
Todd Svarckopf	Chief Pilot			ON SITE	7	8
Charles Dicks	Pilot			ON SITE	7	8
Craig McMahon (1st trip)	Technician			ON SITE	7	8
Monika Pal	Geophysicist	22-Jun-15		ON SITE	7	7
Jason Thomas	Pilot				0	0
Jeff Tucker	Pilot				0	0
Craig McMahon (2nd trip)	Technician				0	0
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	367.5	615
Inductions	1	7
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting	1	1
Tellus Complaints		0

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



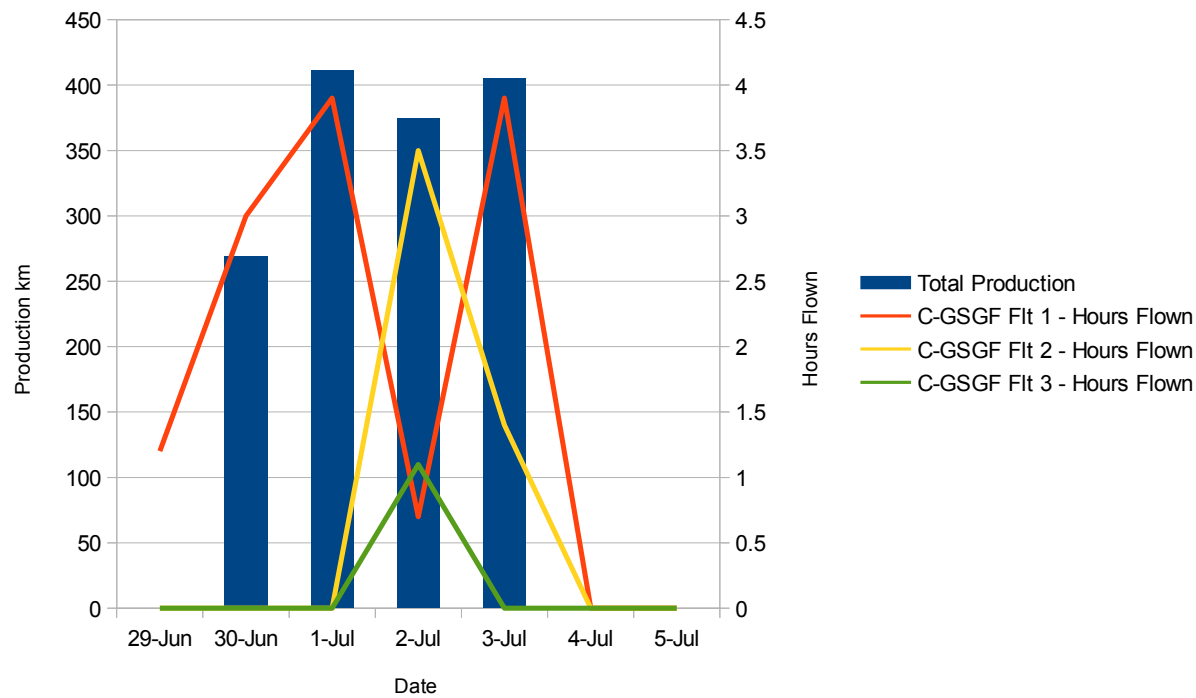


Survey Details							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
Survey Production Summary							
Production This Week (km)	1460.2		Total km Flown to Date		1460.2		
Total Remaining (km)	31182.1		km Reflown This Week		0.0		
Percent Complete (%)	4.5		Flight Time This Week (h)		18.7		
Prod km/Day This Week	208.6		Prod km/Flt Hour This Week		78.1		
Weekly Production							
Week 4		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			18.7	56.0	0.0	1460.2	0.0
29-Jun	Monday		1.2	0.0	0.0	0.0	0.0
	C-GSGF Flt 1	0001	1.2	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Sunny, high of 20C.		Remarks	Flight aborted due to technical issues with FEM system. Part ordered and expected next day.			
Geomag	unsettled						
30-Jun	Tuesday		3.0	11.0	0.0	269.3	0.0
	C-GSGF Flt 1	0002	3.0	11.0	0.0	269.3	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Sunny, high of 25C.		Remarks	Part arrived in morning. FEM system modified. Short flight completed at end of day with remaining operating airport hours.			
Geomag	unsettled						
1-Jul	Wednesday		3.9	16.0	0.0	411.4	0.0
	C-GSGF Flt 1	0003	3.9	16.0	0.0	411.4	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny, high of 23C. Overcast in afternoon.		Remarks	Full flight in morning. Second flight cancelled due to poor visibility.			
Geomag	unsettled						
2-Jul	Thursday		5.3	14.0	0.0	374.6	0.0
	C-GSGF Flt 1	0004	0.7	0.0	0.0	0.0	0.0
	C-GSGF Flt 2	0005	3.5	14.0	0.0	374.6	0.0
	C-GSGF Flt 3	0006	1.1	0.0	0.0	0.0	0.0
Weather	Sunny, high of 20C. Heavy rain west end of block in afternoon.		Remarks	First flight aborted due to technical issues with FEM system. Adjustments made on ground. Second full flight followed. Third flight attempted but heavy rain aborted flight. Jason Thomas and Jeff Tucker, pilots, arrive in Dublin.			
Geomag	unsettled						
3-Jul	Friday		5.3	15.0	0.0	404.9	0.0
	C-GSGF Flt 1	0007	3.9	14.0	0.0	378.0	0.0
	C-GSGF Flt 2	0008	1.4	1.0	0.0	26.9	0.0
Weather	Sunny, high of 19C. Strong winds in afternoon.		Remarks	Full flight in morning. Complaint received and addressed during ferry to spec land test line. Second flight aborted due to strong winds.			
Geomag	unsettled						
4-Jul	Saturday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast with rain, high of 21C. Strong winds in afternoon.		Remarks	No flight due to weather. Production and training cancelled for the day.			
Geomag	quiet						
5-Jul	Sunday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Rain all day, high of 18C. Thunderstorms in afternoon.		Remarks	No flight due to weather. Production cancelled for the day. Ground training at the airport with pilots. Mag pole at Blackhall ground station moved from one field to another, GPS antenna not moved. Craig returns to Canada.			
Geomag	quiet						
Comments	Production commenced in Ireland on the Tellus project. Weather slowed project over the weekend. Two additional pilots arrived in order to double crew/double flight the project.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	27
Steve Gebhardt	Lead Pilot			ON SITE	7	27
Dwayne Bailey	AME			ON SITE	7	18
Todd Svarckopf	Chief Pilot			ON SITE	7	15
Charles Dicks	Pilot			ON SITE	7	15
Craig McMahon (1st trip)	Technician		5-Jul-15	ON SITE	7	15
Monika Pal	Geophysicist			ON SITE	7	14
Jason Thomas	Pilot	2-Jul-15		ON SITE	4	4
Jeff Tucker	Pilot	2-Jul-15		ON SITE	4	4
Craig McMahon (2nd trip)	Technician				0	0
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	427.5	1042.5
Inductions	2	9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		1
Tellus Complaints	1	1

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



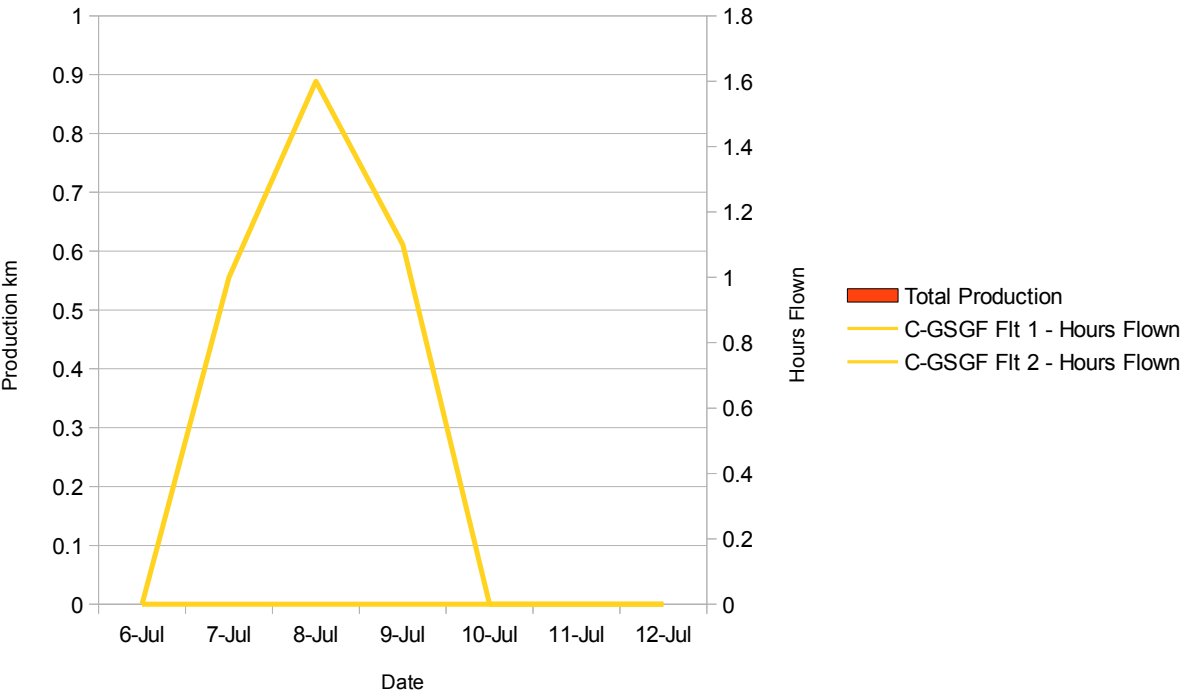


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	34
Steve Gebhardt	Lead Pilot			ON SITE	7	34
Dwayne Bailey	AME			ON SITE	7	25
Todd Svarckopf	Chief Pilot		7-Jul-15	ON SITE	2	17
Charles Dicks	Pilot			ON SITE	7	22
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	21
Jason Thomas	Pilot			ON SITE	7	11
Jeff Tucker	Pilot			ON SITE	7	11
Craig McMahon (2nd trip)	Technician	11-Jul-15		ON SITE	2	2
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	397.5	1440
Inductions		9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		1
Tellus Complaints	1	2

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



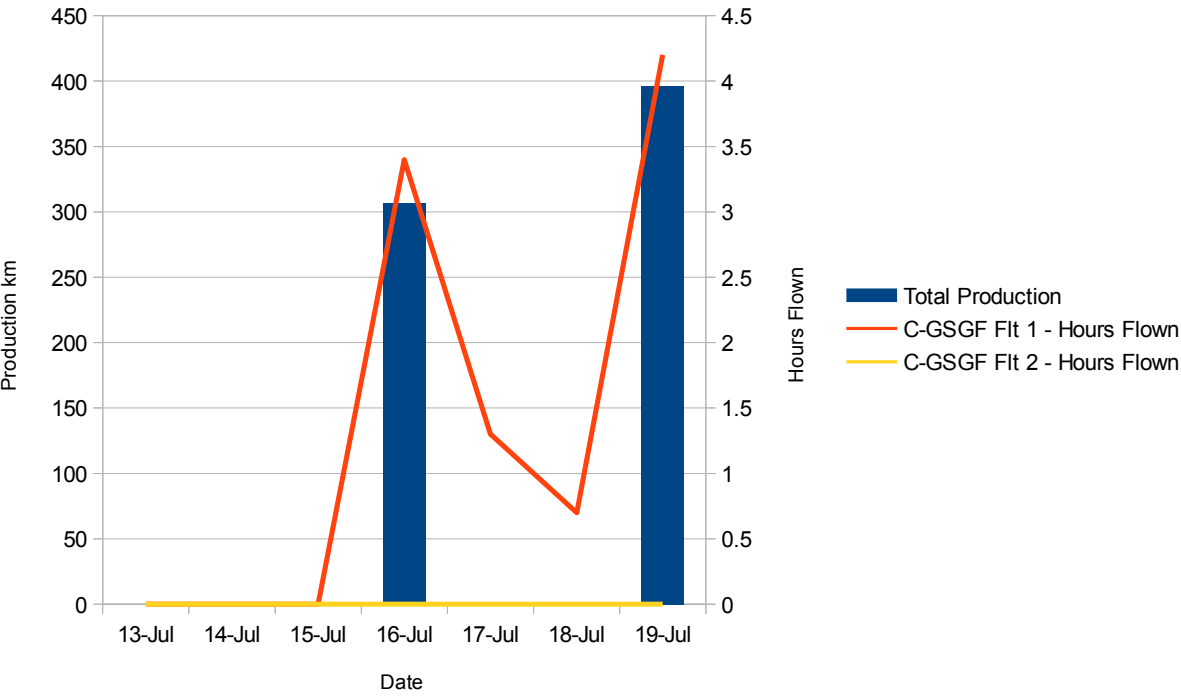


SURVEY DETAILS							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	702.6		Total km Flown to Date		2162.8		
Total Remaining (km)	30479.5		km Reflown This Week		74.7		
Percent Complete (%)	6.6		Flight Time This Week (h)		9.6		
Prod km/Day This Week	100.4		Prod km/Flt Hour This Week		73.2		
WEEKLY PRODUCTION							
Week 6		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			9.6	25.0	3.0	702.6	74.7
13-Jul	Monday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy rain all day, high of 20C.		Remarks	Planned test flight cancelled. Continued investigation of FEM system.			
Geomag	quiet						
14-Jul	Tuesday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Rain in am, overcast and high of 16C.		Remarks	Continued investigation of FEM system.			
Geomag	quiet						
15-Jul	Wednesday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast, high of 17C.		Remarks	Continued investigation of FEM system. System is ready to fly.			
Geomag	quiet						
16-Jul	Thursday		3.4	11.0	0.0	306.4	0.0
	C-GSGF Flt 1	0010	3.4	11.0	0.0	306.4	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast in am, heavy rain in pm, high of 16C.		Remarks	Test flight and short survey flight completed. Flight aborted due to weather.			
Geomag	quiet						
17-Jul	Friday		1.3	0.0	0.0	0.0	0.0
	C-GSGF Flt 1	9007	1.3	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Severe turbulence and strong winds, showers. High of 17C.		Remarks	Winds and turbulence too strong for survey flight. Short test flight completed. Aircraft maintenance performed.			
Geomag	quiet						
18-Jul	Saturday		0.7	0.0	0.0	0.0	0.0
	C-GSGF Flt 1	9008	0.7	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny with wind, rain in block all day. High of 19C.		Remarks	Test flight completed. Too much rain in survey block for production.			
Geomag	quiet						
19-Jul	Sunday		4.2	14.0	3.0	396.2	74.7
	C-GSGF Flt 1	0011	4.2	14.0	3.0	396.2	74.7
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny, scattered showers, high of 18C.		Remarks	Full production flight. Only one due to weather.			
Geomag	quiet						
Comments	Technical difficulties with FEM system resolved. Project back on track with production, weather proving to be a challenge as expected.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	41
Steve Gebhardt	Lead Pilot			ON SITE	7	41
Dwayne Bailey	AME			ON SITE	7	32
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	29
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	28
Jason Thomas	Pilot			ON SITE	7	18
Jeff Tucker	Pilot			ON SITE	7	18
Craig McMahon (2nd trip)	Technician			ON SITE	7	9
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	1860
Inductions		9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		1
Tellus Complaints		2

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN

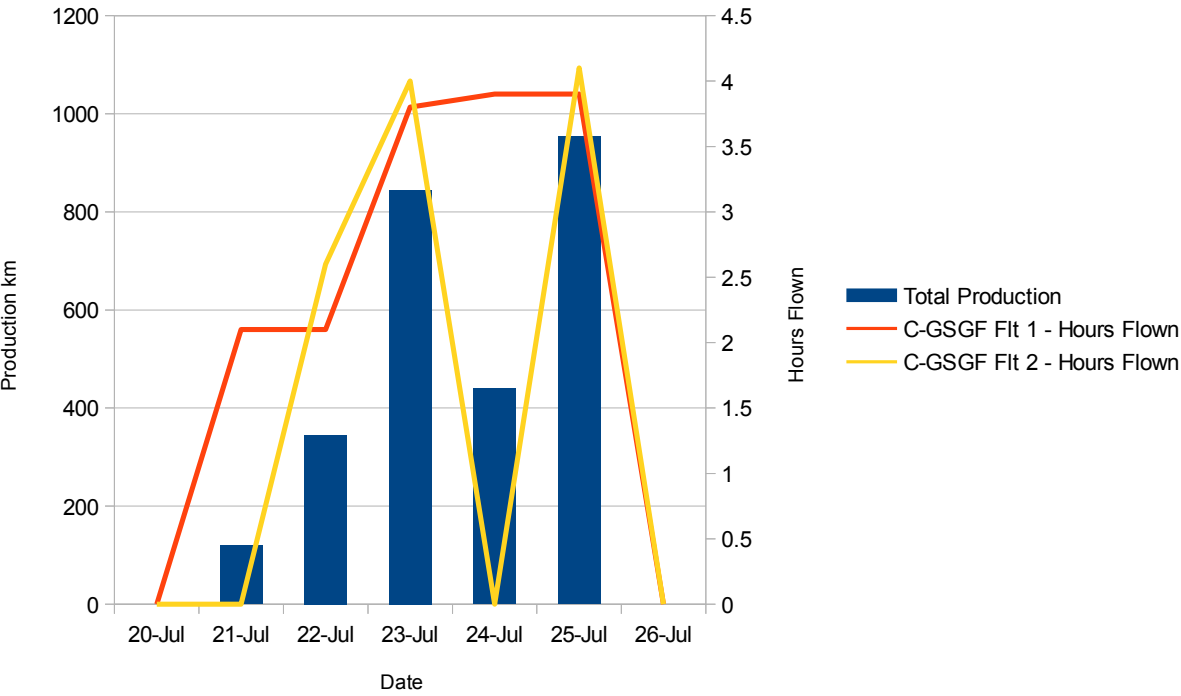




PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	48
Steve Gebhardt	Lead Pilot			ON SITE	7	48
Dwayne Bailey	AME			ON SITE	7	39
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	36
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	35
Jason Thomas	Pilot			ON SITE	7	25
Jeff Tucker	Pilot			ON SITE	7	25
Craig McMahon (2nd trip)	Technician			ON SITE	7	16
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	2280
Inductions		9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting	1	2
Tellus Complaints		2

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



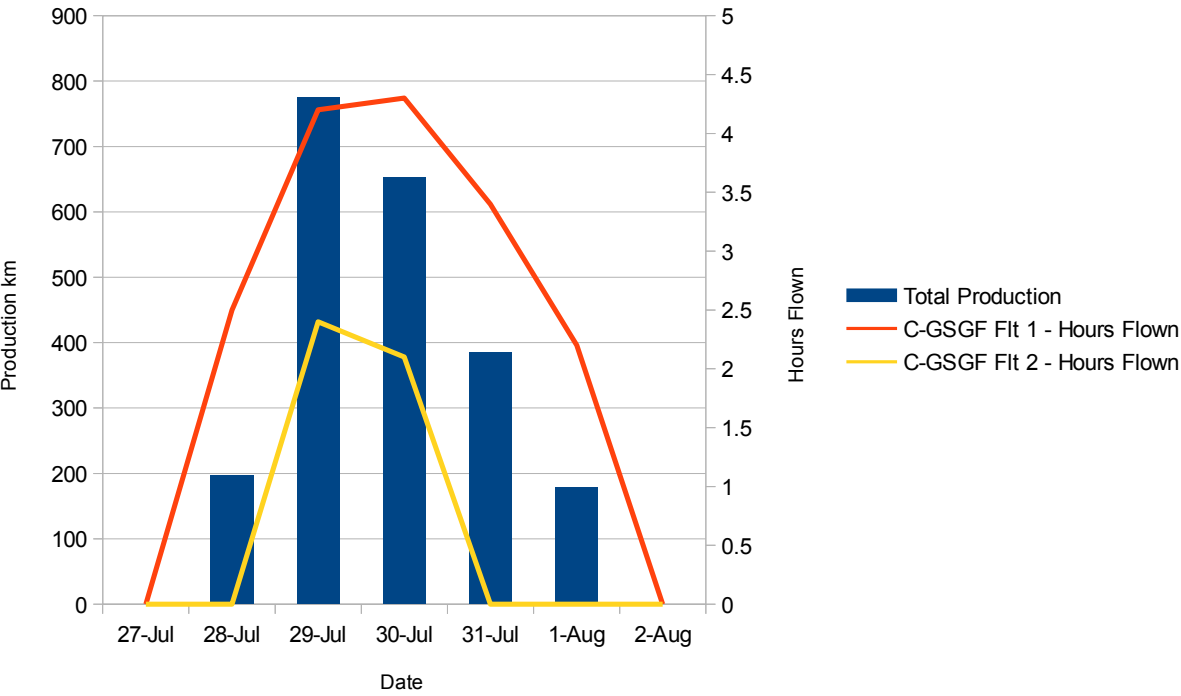


SURVEY DETAILS							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	2188.4		Total km Flown to Date		7054.4		
Total Remaining (km)	25587.9		km Reflown This Week		0.0		
Percent Complete (%)	21.6		Flight Time This Week (h)		21.1		
Prod km/Day This Week	312.6		Prod km/Flt Hour This Week		103.7		
WEEKLY PRODUCTION							
Week 8		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			21.1	83.0	0.0	2188.4	0.0
27-Jul	Monday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Rain, fog, mist, winds...a true mess. High of 17C.		Remarks	No flight due to weather.			
Geomag	quiet						
28-Jul	Tuesday		2.5	8.0	0.0	196.7	0.0
	C-GSGF Flt 1	0020	2.5	8.0	0.0	196.7	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny in am, thunderstorms with hail in pm. Strong winds. High of 16C.		Remarks	Flight aborted due to rain and strong winds.			
Geomag	quiet						
29-Jul	Wednesday		6.6	29.0	0.0	775.1	0.0
	C-GSGF Flt 1	0021	4.2	20.0	0.0	522.8	0.0
	C-GSGF Flt 2	0022	2.4	9.0	0.0	252.3	0.0
Weather	Partly sunny with rain showers, high of 16C. Thunderstorms.		Remarks	Two flights. Second flight aborted due to thunderstorms.			
Geomag	unsettled						
30-Jul	Thursday		6.4	23.0	0.0	652.9	0.0
	C-GSGF Flt 1	0023	4.3	19.0	0.0	538.3	0.0
	C-GSGF Flt 2	0024	2.1	4.0	0.0	114.6	0.0
Weather	Overcast with rain showers, high of 16C.		Remarks	Two flights. Second flight aborted due to heavy rain. Complaint regarding aircraft ferry location, farmer expecting call but did not receive however aircraft above 400 m. Meeting between GSI and SGL regarding PR so far, and improvements moving forward.			
Geomag	quiet						
31-Jul	Friday		3.4	13.0	0.0	384.5	0.0
	C-GSGF Flt 1	0025	3.4	13.0	0.0	384.5	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny in am, rain in pm. High of 16C.		Remarks	Flight aborted due to weather.			
Geomag	unsettled						
1-Aug	Saturday		2.2	10.0	0.0	179.2	0.0
	C-GSGF Flt 1	0026	2.2	10.0	0.0	179.2	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Sunny and windy, high of 18C.		Remarks	Flight aborted due to strong winds.			
Geomag	active						
2-Aug	Sunday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast and rain, strong winds in pm. High of 17C.		Remarks	No flight due to weather.			
Geomag	unsettled						
Comments	A good week, flights 5 out of 7 days. Weather continues to be a frustration.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	55
Steve Gebhardt	Lead Pilot			ON SITE	7	55
Dwayne Bailey	AME			ON SITE	7	46
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	43
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	42
Jason Thomas	Pilot			ON SITE	7	32
Jeff Tucker	Pilot			ON SITE	7	32
Craig McMahon (2nd trip)	Technician			ON SITE	7	23
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	2700
Inductions		9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		2
Tellus Complaints	1	3

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



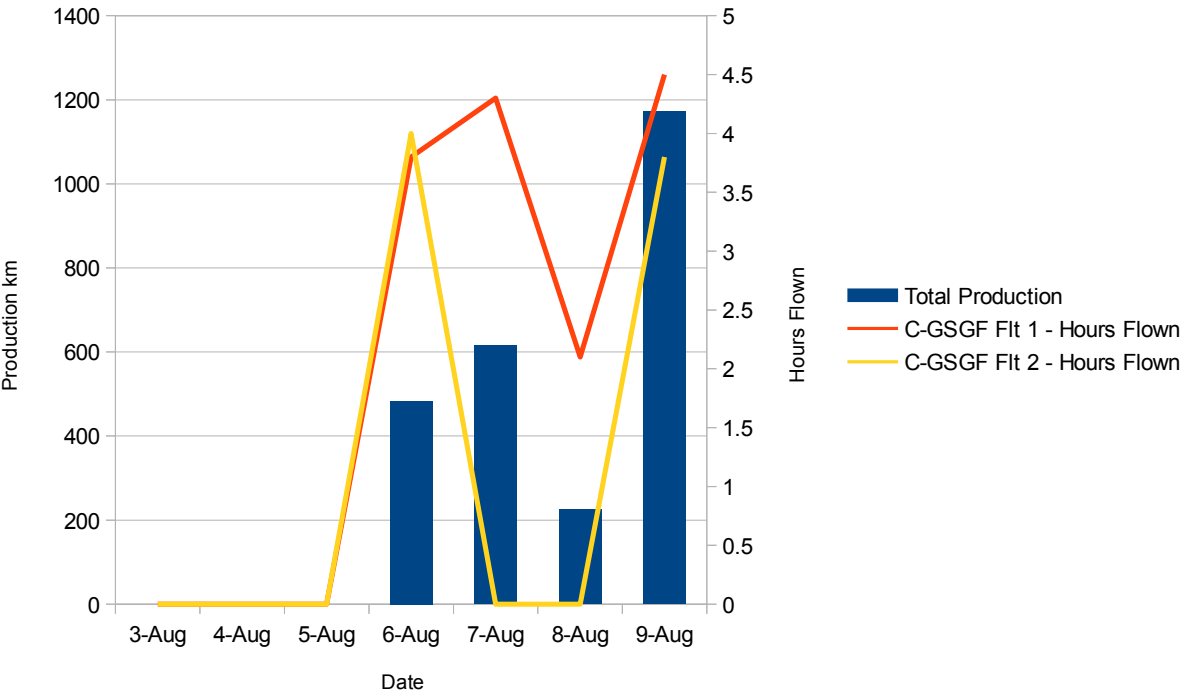


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	62
Steve Gebhardt	Lead Pilot			ON SITE	7	62
Dwayne Bailey	AME			ON SITE	7	53
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	50
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	49
Jason Thomas	Pilot			ON SITE	7	39
Jeff Tucker	Pilot			ON SITE	7	39
Craig McMahon (2nd trip)	Technician			ON SITE	7	30
Vincent Doyle	AME				0	0
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	3120
Inductions		9
Near Miss		0
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		2
Tellus Complaints	1	4

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



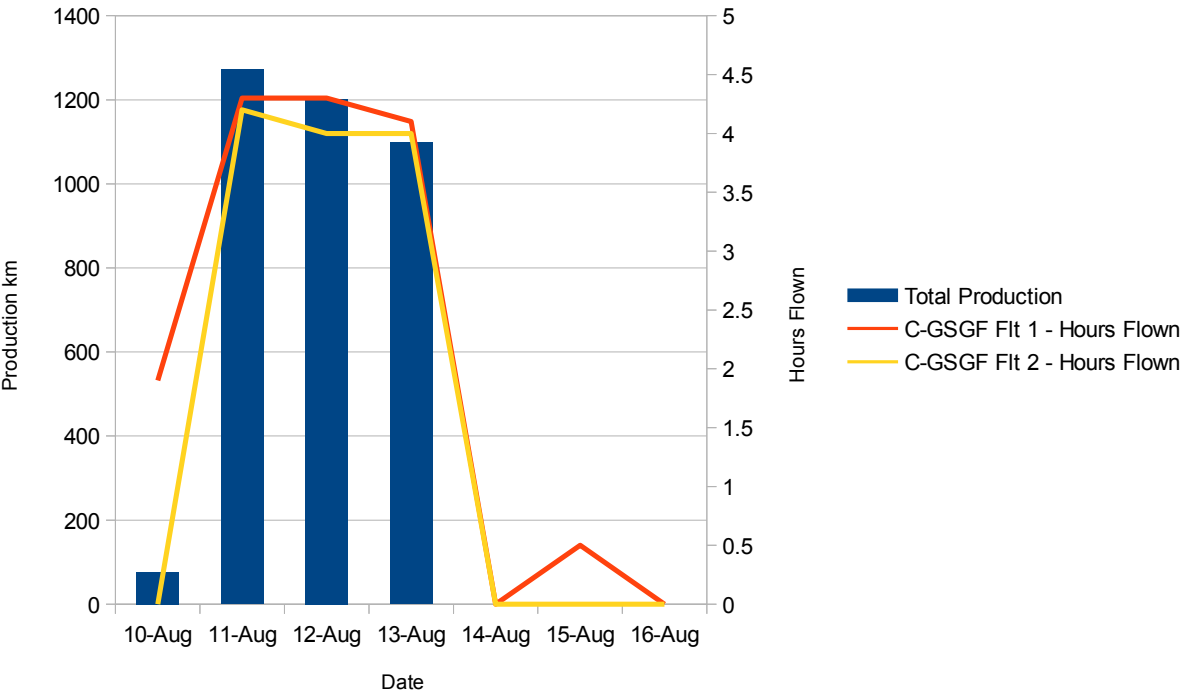


SURVEY DETAILS							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	3648.6		Total km Flown to Date		13199.1		
Total Remaining (km)	19443.2		km Reflown This Week		17.0		
Percent Complete (%)	40.4		Flight Time This Week (h)		27.3		
Prod km/Day This Week	521.2		Prod km/Flt Hour This Week		133.6		
WEEKLY PRODUCTION							
Week 10		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			27.3	86.7	1.0	3648.6	17.0
10-Aug	Monday		1.9	1.0	0.0	76.8	0.0
	C-GSGF Flt 1	0032	1.9	1.0	0.0	76.8	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast and rain, clear in pm but very windy. High of 19C.		Remarks	Production flight aborted due to bird strike. No damage found upon return of aircraft but strong winds prevented second flight.			
Geomag	unsettled						
11-Aug	Tuesday		8.5	33.0	0.0	1271.6	0.0
	C-GSGF Flt 1	0033	4.3	17.0	0.0	644.3	0.0
	C-GSGF Flt 2	0034	4.2	16.0	0.0	627.3	0.0
Weather	Calm and partly sunny. High of 17C.		Remarks	Two full flights. Complaint during the ferry to the block, same gentleman complaining on Saturday. Second complaint during end of first flight, possible polygon not created.			
Geomag	unsettled						
12-Aug	Wednesday		8.3	15.7	0.0	1202.0	0.0
	C-GSGF Flt 1	0035	4.3	7.7	0.0	587.6	0.0
	C-GSGF Flt 2	0036	4.0	8.0	0.0	614.4	0.0
Weather	Calm and sunny, high of 19C.		Remarks	Two full flights. 6 partial lines for PR logistics.			
Geomag	unsettled						
13-Aug	Thursday		8.1	37.0	1.0	1098.2	17.0
	C-GSGF Flt 1	0037	4.1	8.0	0.0	614.4	0.0
	C-GSGF Flt 2	0038	4.0	29.0	1.0	483.8	17.0
Weather	Heavy fog in am, calm and sunny. High of 19C.		Remarks	Two full flights. A good portion of the Irish mountains completed during second flight. Vince Doyle, AME, arrives in Dublin.			
Geomag	quiet						
14-Aug	Friday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy fog in am followed by rain. High of 17C.		Remarks	No flight due to weather. Routine aircraft maintenance completed.			
Geomag	quiet						
15-Aug	Saturday		0.5	0.0	0.0	0.0	0.0
	C-GSGF Flt 1	0039	0.5	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Calm and partly sunny, high of 16C.		Remarks	Incident immediately after take off caused pilots to make an emergency landing at Dublin International Airport. No one injured. AAIU investigation completed at both Dublin and Weston Airports. Further investigations and reports to follow.			
Geomag	quiet						
16-Aug	Sunday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Calm and partly sunny, high of 18C.		Remarks	Aircraft remains at Dublin International Airport. IAA investigation will commence on Monday. Dwayne returns to Canada.			
Geomag	quiet						
Comments	Production week was best one yet. Clear weather allowed for double flights 3 days straight. Incident on Saturday morning during take off has suspended production until further notice.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	69
Steve Gebhardt	Lead Pilot			ON SITE	7	69
Dwayne Bailey	AME		16-Aug-15	ON SITE	7	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	57
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	56
Jason Thomas	Pilot			ON SITE	7	46
Jeff Tucker	Pilot			ON SITE	7	46
Craig McMahon (2nd trip)	Technician			ON SITE	7	37
Vincent Doyle	AME	13-Aug-15		ON SITE	4	4
Edward McEwen	Technician				0	0
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	450	3570
Inductions	1	10
Near Miss	1	1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		2
Tellus Complaints	7	11

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



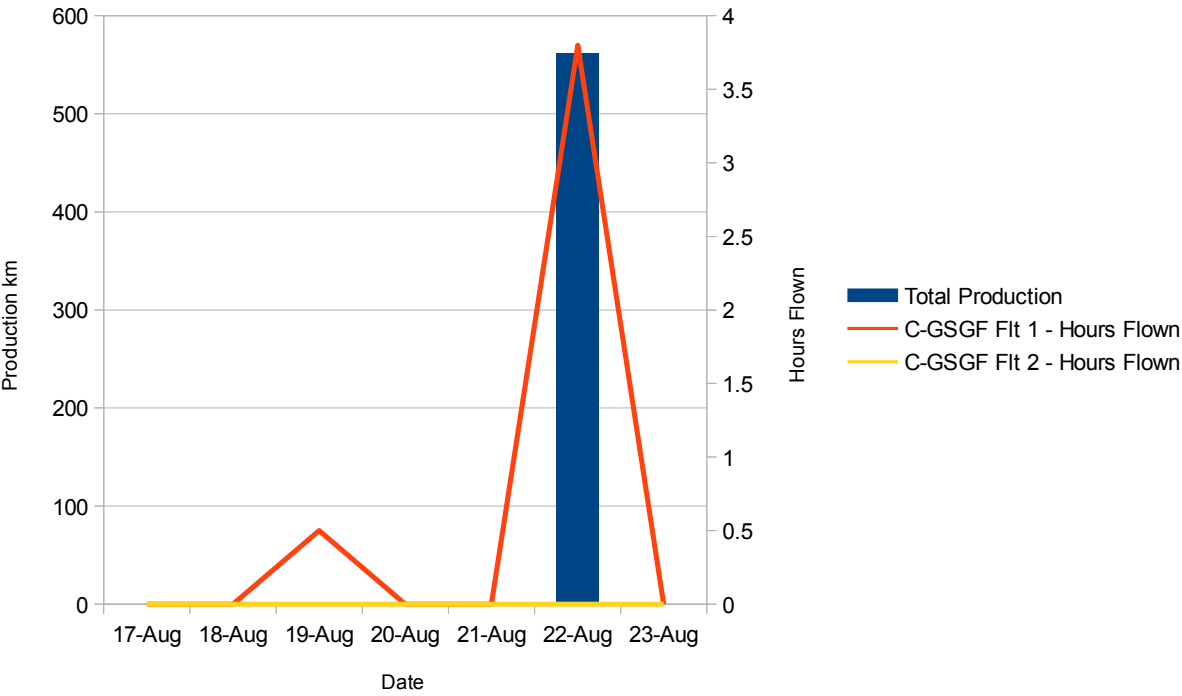


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	76
Steve Gebhardt	Lead Pilot			ON SITE	7	76
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	64
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	63
Jason Thomas	Pilot		20-Aug-15	ON SITE	4	50
Jeff Tucker	Pilot			ON SITE	7	53
Craig McMahon (2nd trip)	Technician			ON SITE	7	44
Vincent Doyle	AME			ON SITE	7	11
Edward McEwen	Technician	23-Aug-15		ON SITE	1	1
John Sevenhuysen	AME				0	0
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	405	3975
Inductions	1	11
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		2
Tellus Complaints		11

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN





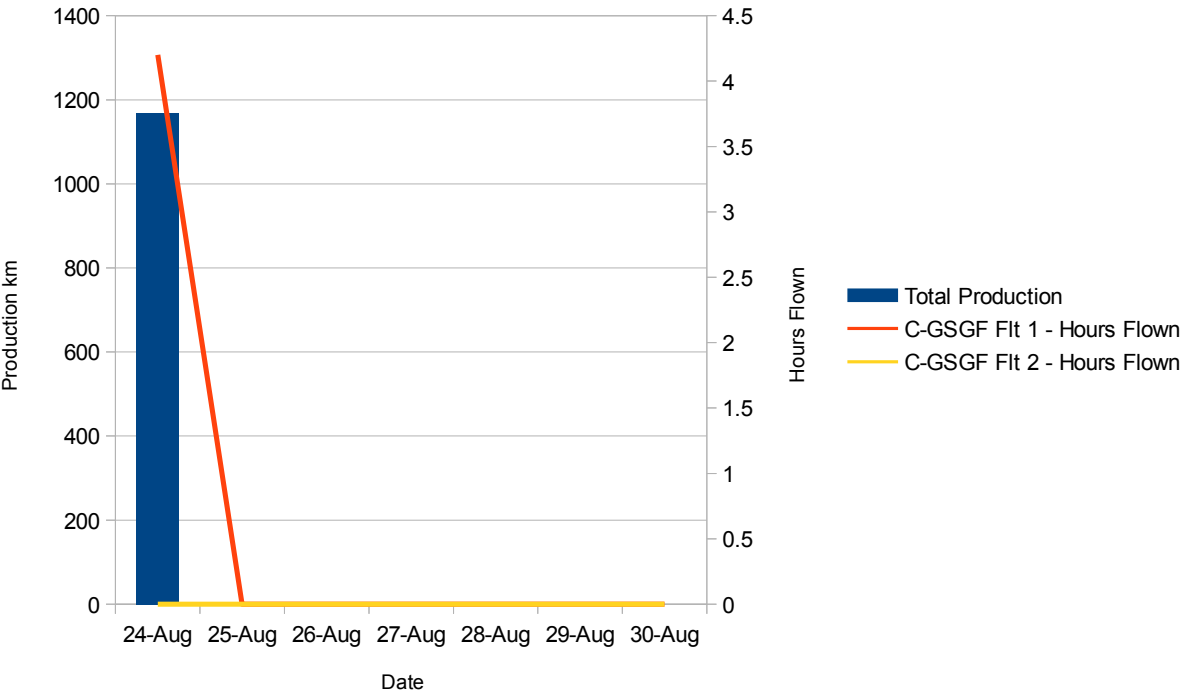
Comments	Unfortunately our aircraft maintenance engineer had to return to Canada unexpectedly. John Sevenhuysen arrived on Saturday and the current aircraft inspection has been continued but is not complete.
-----------------	--

Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	83
Steve Gebhardt	Lead Pilot			ON SITE	7	83
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	71
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	70
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot			ON SITE	7	60
Craig McMahon (2nd trip)	Technician		28-Aug-15	ON SITE	5	49
Vincent Doyle	AME		28-Aug-15	ON SITE	5	16
Edward McEwen	Technician			ON SITE	7	8
John Sevenhuysen	AME	29-Aug-15		ON SITE	2	2
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	405	4380
Inductions	1	12
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting	1	3
Tellus Complaints	2	13

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



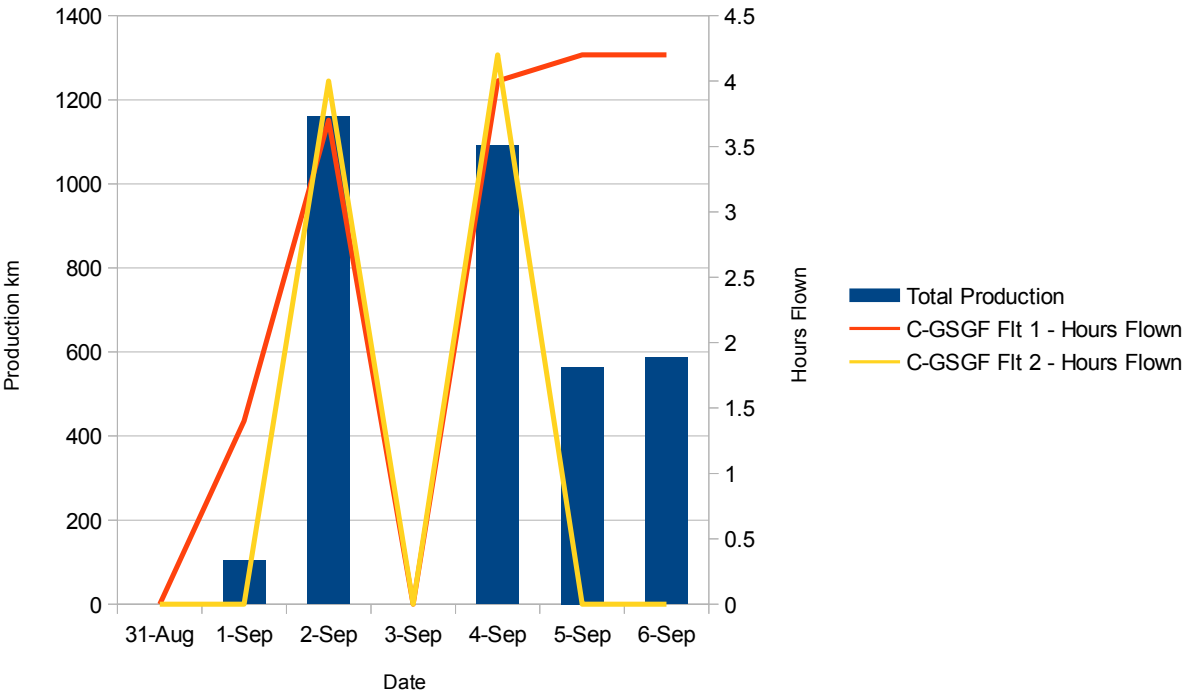


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	90
Steve Gebhardt	Lead Pilot			ON SITE	7	90
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	78
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	77
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot			ON SITE	7	67
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	15
John Sevenhuysen	AME			ON SITE	7	9
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	367.5	4747.5
Inductions		12
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		3
Tellus Complaints	1	14

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



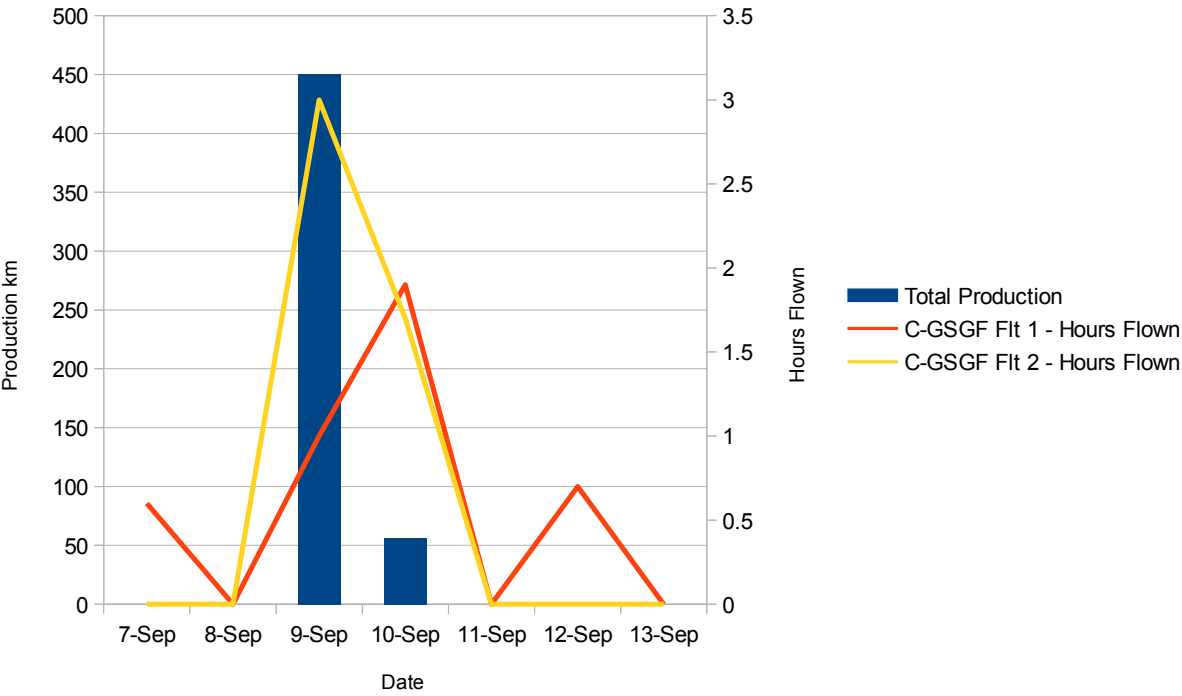


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	97
Steve Gebhardt	Lead Pilot			ON SITE	7	97
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	85
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	84
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot			ON SITE	7	74
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	22
John Sevenhuysen	AME			ON SITE	7	16
Max Buneta	Geophysicist				0	0
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	367.5	5115
Inductions		12
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		3
Tellus Complaints		14

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



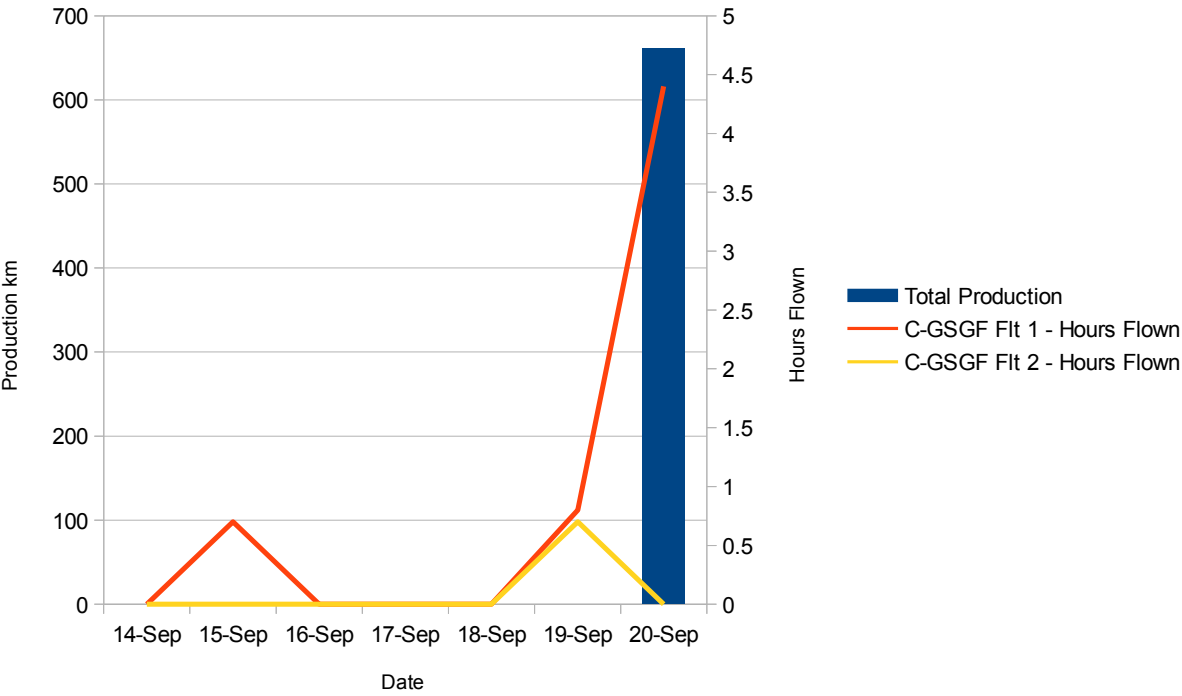


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	104
Steve Gebhardt	Lead Pilot			ON SITE	7	104
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	92
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist			ON SITE	7	91
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot			ON SITE	7	81
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	29
John Sevenhuysen	AME			ON SITE	7	23
Max Buneta	Geophysicist	16-Sep-15		ON SITE	5	5
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	405	5520
Inductions	1	13
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		3
Tellus Complaints	1	15

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



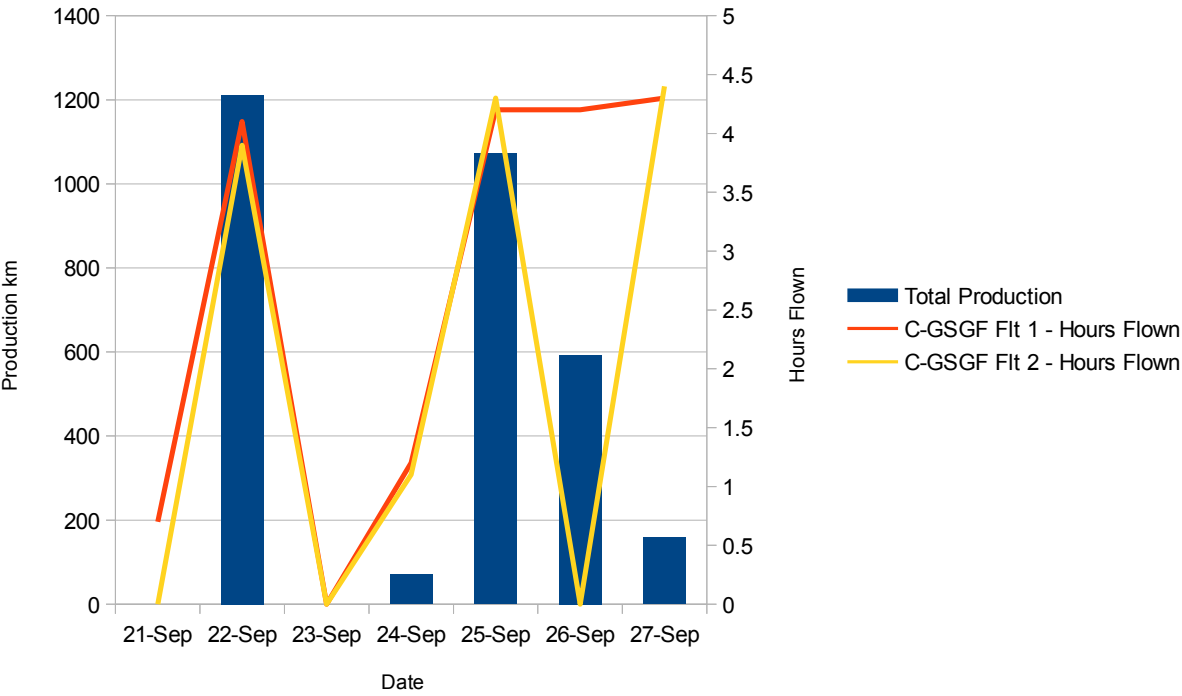


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	111
Steve Gebhardt	Lead Pilot			ON SITE	7	111
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	99
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist		21-Sep-15	ON SITE	1	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot			ON SITE	7	88
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	36
John Sevenhuysen	AME			ON SITE	7	30
Max Buneta	Geophysicist			ON SITE	7	12
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	375	5895
Inductions		13
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting	1	4
Tellus Complaints	1	16

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN

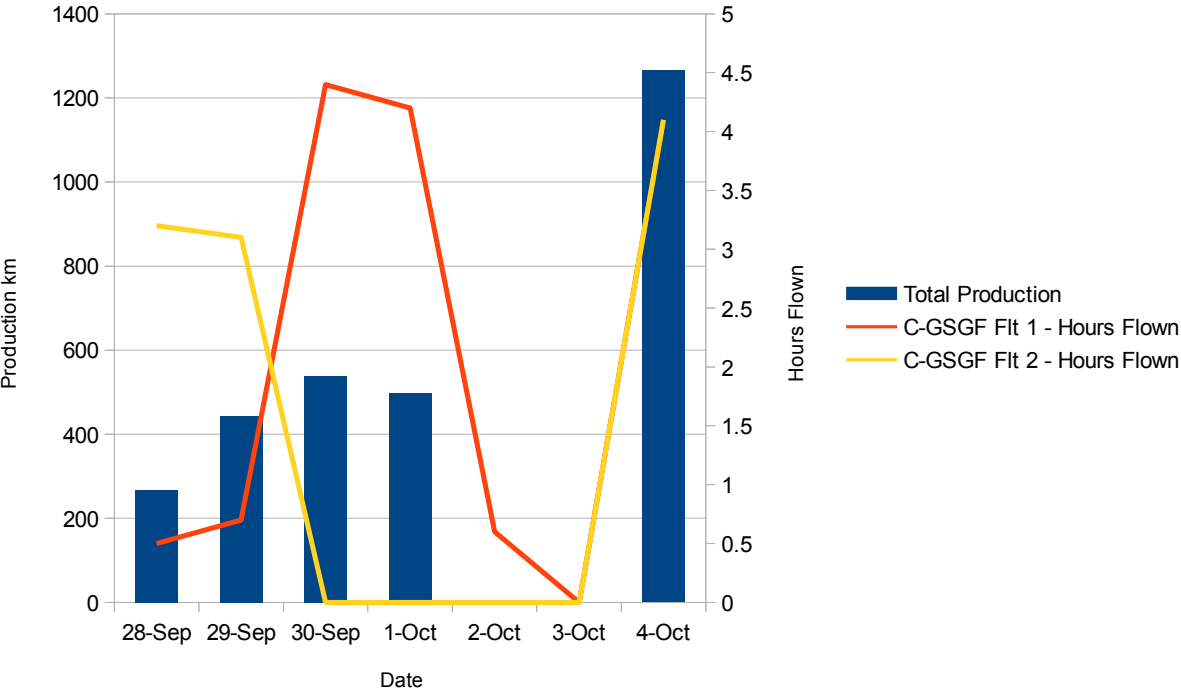




PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	118
Steve Gebhardt	Lead Pilot			ON SITE	7	118
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	106
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist				0	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot		2-Oct-15	ON SITE	5	93
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	43
John Sevenhuysen	AME			ON SITE	7	37
Max Buneta	Geophysicist			ON SITE	7	19
Matt Gillespie	Pilot	1-Oct-15		ON SITE	4	4
Andre Lafontaine	Pilot				0	0

HSE Statistics	This Week	Project Totals
SGL Person Hours	382.5	6277.5
Inductions	1	14
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		4
Tellus Complaints	3	19

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



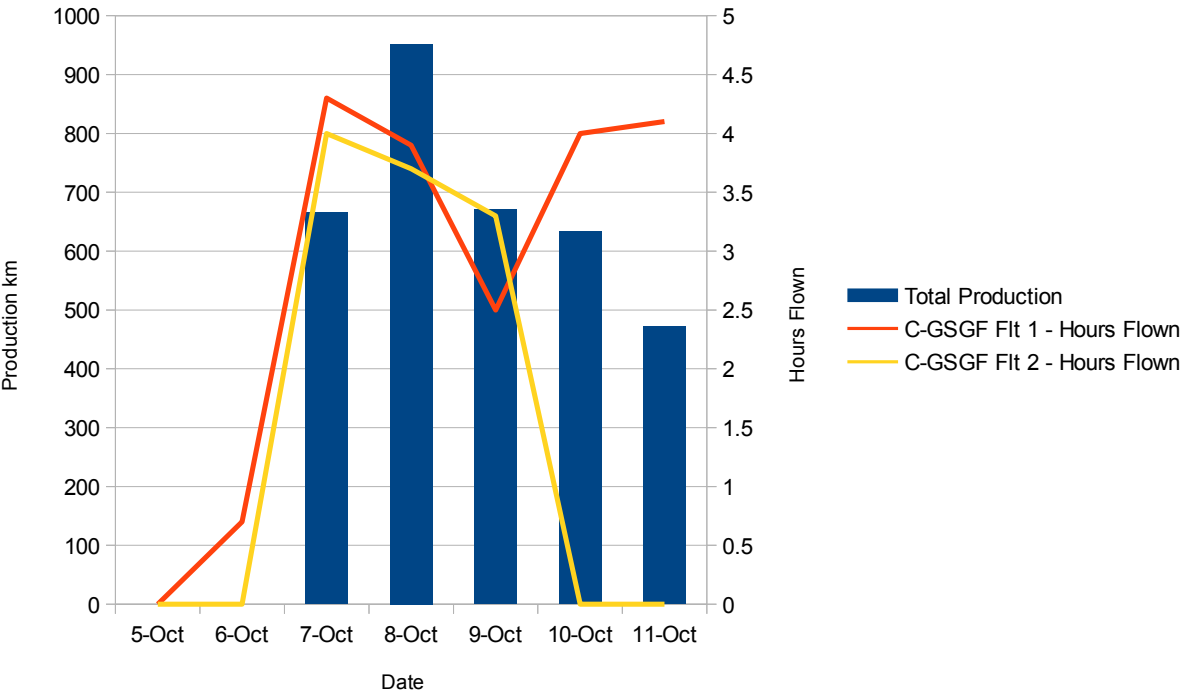


Signed	Alison McCleary
---------------	-----------------

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	125
Steve Gebhardt	Lead Pilot			ON SITE	7	125
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	113
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist				0	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot				0	93
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	50
John Sevenhuysen	AME			ON SITE	7	44
Max Buneta	Geophysicist			ON SITE	7	26
Matt Gillespie	Pilot			ON SITE	7	11
Andre Lafontaine	Pilot	5-Oct-15		ON SITE	7	7

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	6697.5
Inductions	1	15
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		4
Tellus Complaints	1	20

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



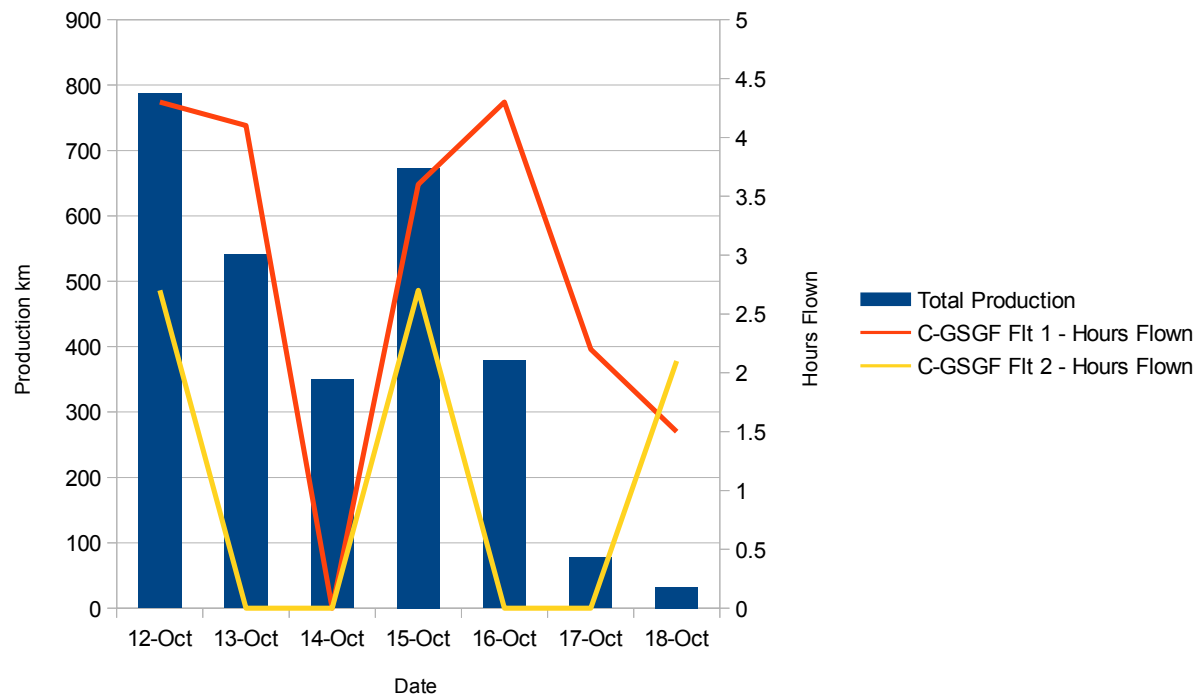


SURVEY DETAILS							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	2839.7		Total km Flown to Date		31954.1		
Total Remaining (km)	688.2		km Reflown This Week		155.6		
Percent Complete (%)	97.9		Flight Time This Week (h)		27.5		
Prod km/Day This Week	405.7		Prod km/Flt Hour This Week		103.3		
WEEKLY PRODUCTION							
Week 19		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			27.5	104.4	5.1	2839.7	155.6
12-Oct	Monday		7.0	47.9	0.0	786.8	0.0
	C-GSGF Flt 1	83	4.3	31.3	0.0	504.2	0.0
	C-GSGF Flt 2	84	2.7	16.6	0.0	282.6	0.0
Weather	Fog in am, cleared to blue skies, high of 13C. Windy.		Remarks	Flight delayed for fog this morning. Second flight short due to daylight and airport hours.			
Geomag	unsettled						
13-Oct	Tuesday		4.1	11.5	0.0	541.3	0.0
	C-GSGF Flt 1	85	4.1	11.5	0.0	541.3	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Fog in am, heavy, cleared to partly sunny. High of 12C.		Remarks	One flight after weather lifted.			
Geomag	active						
14-Oct	Wednesday		0.0	2.9	0.0	349.9	0.0
	C-GSGF Flt 1	86	0.0	2.9	0.0	349.9	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy fog becomes overcast, high of 12C.		Remarks	One flight managed despite the cloud cover.			
Geomag	unsettled						
15-Oct	Thursday		6.3	28.7	0.0	673.3	0.0
	C-GSGF Flt 1	87	3.6	15.7	0.0	305.4	0.0
	C-GSGF Flt 2	88	2.7	13.0	0.0	367.9	0.0
Weather	Fog in am, cleared to partly sunny, showers. High of 13C.		Remarks	Two shorter flights due to weather and daylight hours.			
Geomag	unsettled						
16-Oct	Friday		4.3	11.7	0.2	378.4	14.0
	C-GSGF Flt 1	89	4.3	11.7	0.2	378.4	14.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy fog, partly sunny, overcast. High of 13C.		Remarks	One full flight.			
Geomag	unsettled						
17-Oct	Saturday		2.2	0.6	0.0	77.8	0.0
	C-GSGF Flt 1	90	2.2	0.6	0.0	77.8	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Clear in am, partly sunny but fog in mountains. High of 12C.		Remarks	Casement, military airbase, completed.			
Geomag	quiet						
18-Oct	Sunday		3.6	1.1	4.9	32.2	141.6
	C-GSGF Flt 1	91	1.5	0.9	3.8	26.1	109.3
	C-GSGF Flt 2	92	2.1	0.2	1.1	6.1	32.3
Weather	Overcast and misty. High of 12C.		Remarks	Two short flights, DUB ATC too busy to handle us. Full lines flown instead of partials to try and stay out of DUB control zone as much as possible.			
Geomag	quiet						
Comments	An excellent 4 weeks. We are so very close to the end. Only a handful of small partials and reflights remain. If the winds would change DUB ATC will be easier to complete.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	132
Steve Gebhardt	Lead Pilot			ON SITE	7	132
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	120
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist				0	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot				0	93
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	57
John Sevenhuysen	AME			ON SITE	7	51
Max Buneta	Geophysicist			ON SITE	7	33
Matt Gillespie	Pilot			ON SITE	7	18
Andre Lafontaine	Pilot			ON SITE	7	14

HSE Statistics	This Week	Project Totals
SGL Person Hours	420	7117.5
Inductions		15
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		4
Tellus Complaints	1	21

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



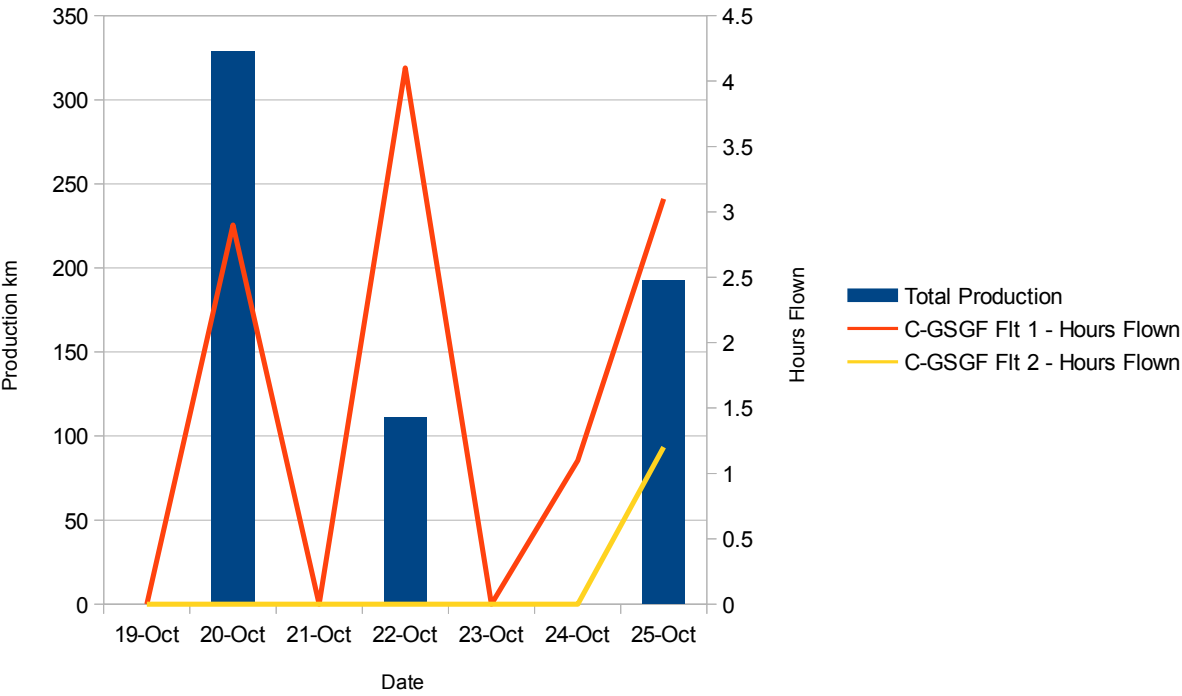


SURVEY DETAILS							
Survey Name	Tellus		Client Name		Geological Survey of Ireland		
Survey Location	Ireland		Contact Name		Jim Hodgson		
Project Code	GSI__15.IRL		Contact Phone		+353 1678 2742		
Total km	32642.3 km		Client Address		Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM		Email		jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	631.9		Total km Flown to Date		32586.0		
Total Remaining (km)	56.3		km Reflown This Week		390.3		
Percent Complete (%)	99.8		Flight Time This Week (h)		12.4		
Prod km/Day This Week	90.3		Prod km/Flt Hour This Week		51.0		
WEEKLY PRODUCTION							
Week 20		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			12.4	14.1	9.2	631.9	390.3
19-Oct	Monday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Fog, overcast, mist. High of 12C.		Remarks	No flight due to poor visibility all day.			
Geomag	quiet						
20-Oct	Tuesday		2.9	8.7	0.0	328.7	0.0
	C-GSGF Flt 1	93	2.9	8.7	0.0	328.7	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Fog, overcast. Rain late in pm. High of 12C.		Remarks	One flight during small weather window.			
Geomag	unsettled						
21-Oct	Wednesday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Fog, overcast, mist, rain. Strong winds. High of 15C.		Remarks	No flight due to poor visibility and strong winds all day. Meeting between GSI and SGL to discuss next years survey.			
Geomag	unsettled						
22-Oct	Thursday		4.1	2.1	6.2	110.8	205.5
	C-GSGF Flt 1	94	4.1	2.1	6.2	110.8	205.5
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny with strong winds. High of 13C.		Remarks	One full flight or partials and reflights. Matt departs for Canada.			
Geomag	unsettled						
23-Oct	Friday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Partly sunny with strong winds. High of 14C.		Remarks	No flight due to strong winds.			
Geomag	quiet						
24-Oct	Saturday		1.1	0.0	0.5	0.0	40.7
	C-GSGF Flt 1	95	1.1	0.0	0.5	0.0	40.7
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy rain in morning, clear with strong winds. High of 10C.		Remarks	Flight aborted due to strong winds.			
Geomag	quiet						
25-Oct	Sunday		4.3	3.3	2.5	192.4	144.1
	C-GSGF Flt 1	96	3.1	3.3	1.0	192.4	46.5
	C-GSGF Flt 2	97	1.2	0.0	1.5	0.0	97.6
Weather	Clear in am, becomes overcast with rain. High of 13C.		Remarks	First flight aborted due to weather. Second flight aborted due to weather.			
Geomag	unsettled						
Comments	The weather made production difficult this week. Only 56 km remain, plus a full test flight for FEM. With a good day of weather the project will be complete.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	139
Steve Gebhardt	Lead Pilot			ON SITE	7	139
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	127
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist				0	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot				0	93
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician			ON SITE	7	64
John Sevenhuysen	AME			ON SITE	7	58
Max Buneta	Geophysicist			ON SITE	7	40
Matt Gillespie	Pilot		22-Oct-15	ON SITE	4	22
Andre Lafontaine	Pilot			ON SITE	7	21

HSE Statistics	This Week	Project Totals
SGL Person Hours	397.5	7515
Inductions		15
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		4
Tellus Complaints		21

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



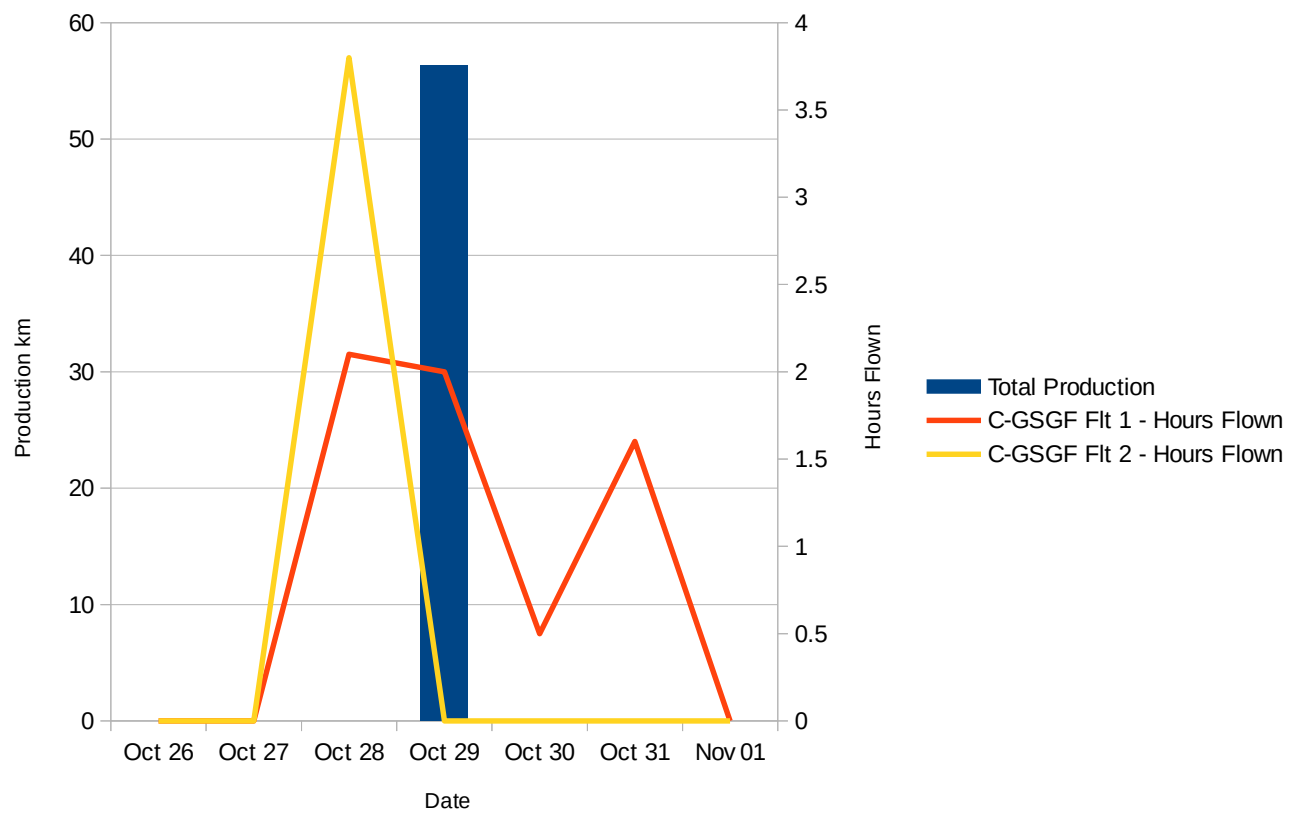


SURVEY DETAILS							
Survey Name	Tellus			Client Name	Geological Survey of Ireland		
Survey Location	Ireland			Contact Name	Jim Hodgson		
Project Code	GSI 15.IRL			Contact Phone	+353 1678 2742		
Total km	32642.3 km			Client Address	Beggar's Bush, Haddington Road, Dublin 4, Ireland		
Line Spacing	200 m by 2000 m						
Survey Type	MAG/SPEC/FEM			Email	jim.hodgson@gsi.ie / tellus@gsi.ie		
SURVEY PRODUCTION SUMMARY							
Production This Week (km)	56.3			Total km Flown to Date	32642.3		
Total Remaining (km)	0.0			km Reflown This Week	180.7		
Percent Complete (%)	100.0			Flight Time This Week (h)	10.0		
Prod km/Day This Week	8.0			Prod km/Flt Hour This Week	5.6		
WEEKLY PRODUCTION							
Week 21		Flight No.	Flight Time	No. of Lines Flown	No. Reflight Lines Flown	Production (km)	Reflown (km)
TOTALS			10.0	0.6	4.8	56.3	180.7
26-Oct	Monday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Rain all day. High of 13C.		Remarks	No flight due to rain all day.			
Geomag	unsettled						
27-Oct	Tuesday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Heavy fog and rain all day. High of 13C.		Remarks	No flight due to heavy fog and rain.			
Geomag	unsettled						
28-Oct	Wednesday		5.9	0.0	4.2	0.0	121.5
	C-GSGF Flt 1	98	2.1	0.0	4.2	0.0	121.5
	C-GSGF Flt 2	9016	3.8	0.0	0.0	0.0	0.0
Weather	Clear. High of 13C.		Remarks	First flight is short due to fog in Wicklow Mountains, only reflights completed. Second flight completed FEM GSI test line and conductivity calibration.			
Geomag	unsettled						
29-Oct	Thursday		2.0	0.6	0.0	56.3	0.0
	C-GSGF Flt 1	99	2.0	0.6	0.0	56.3	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Clear. High of 13C.		Remarks	Last production flight. Includes transmitter noise test and lag tests.			
Geomag	quiet						
30-Oct	Friday		0.5	0.0	0.0	0.0	0.0
	C-GSGF Flt 1	9017	0.5	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast and windy, heavy rain in pm. High of 15C.		Remarks	Short test flight completed.			
Geomag	quiet						
31-Oct	Saturday		1.6	0.0	0.6	0.0	59.2
	C-GSGF Flt 1	100	1.6	0.0	0.6	0.0	59.2
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Overcast in am, clear in pm. High of 17C.		Remarks	Final flight for FEM reflights. Ted departs for Canada.			
Geomag	quiet						
1-Nov	Sunday		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 1		0.0	0.0	0.0	0.0	0.0
	C-GSGF Flt 2		0.0	0.0	0.0	0.0	0.0
Weather	Fog all day. High of 14C.		Remarks	Data processing for final delivery of FEM data.			
Geomag	quiet						
Comments	Project completed. Well done everyone, including the hard work of the GSI PR team.						
Signed	Alison McCleary						

PERSONNEL ON SITE THIS WEEK						
Name	Position	Arrival This Week	Departure This Week	On Site?	No. of Days On Site This Week	No. of Days on Site To Date
Alison McCleary	Crew Chief			ON SITE	7	146
Steve Gebhardt	Lead Pilot			ON SITE	7	146
Dwayne Bailey	AME				0	60
Todd Svarckopf	Chief Pilot				0	17
Charles Dicks	Pilot			ON SITE	7	134
Craig McMahon (1st trip)	Technician				0	15
Monika Pal	Geophysicist				0	92
Jason Thomas	Pilot				0	50
Jeff Tucker	Pilot				0	93
Craig McMahon (2nd trip)	Technician				0	49
Vincent Doyle	AME				0	16
Edward McEwen	Technician		31-Oct-15	ON SITE	6	70
John Sevenhuysen	AME			ON SITE	7	65
Max Buneta	Geophysicist			ON SITE	7	47
Matt Gillespie	Pilot				0	22
Andre Lafontaine	Pilot			ON SITE	7	28

HSE Statistics	This Week	Project Totals
SQL Person Hours	360	7477.5
Inductions		15
Near Miss		1
First Aid Case (FAC)		0
Medical Treatment Case (MTC)		0
Restricted Work Case (RWC)		0
Lost Time Injuries (LTI)		0
Safety Meeting		4
Tellus Complaints		21

WEEKLY PRODUCTION KILOMETRES AND HOURS FLOWN



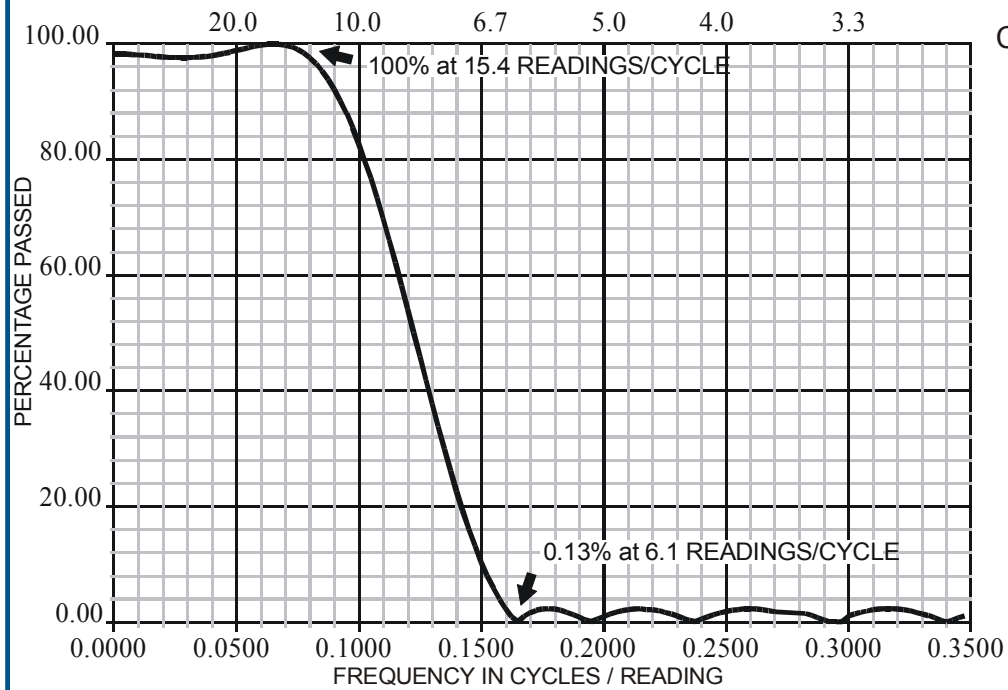


Appendix VII



21 POINT FILTER

WAVELENGTH IN READINGS/CYCLE



FILTER 21 COEFFICIENTS

.0181004100
.0090731840
-.0033823890
-.0236237500
-.0393873800
-.0341412800
.0037196630
.0722507900
.1533358000
.2191219000
.2444045000

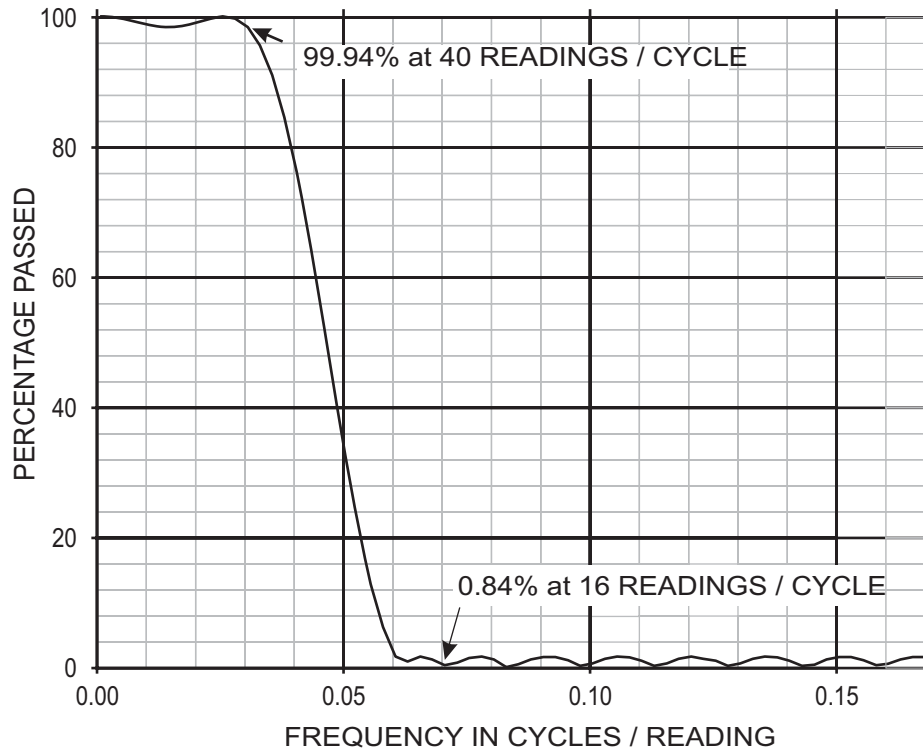
67 POINT FILTER

WAVELENGTH IN READINGS / CYCLE

20

10

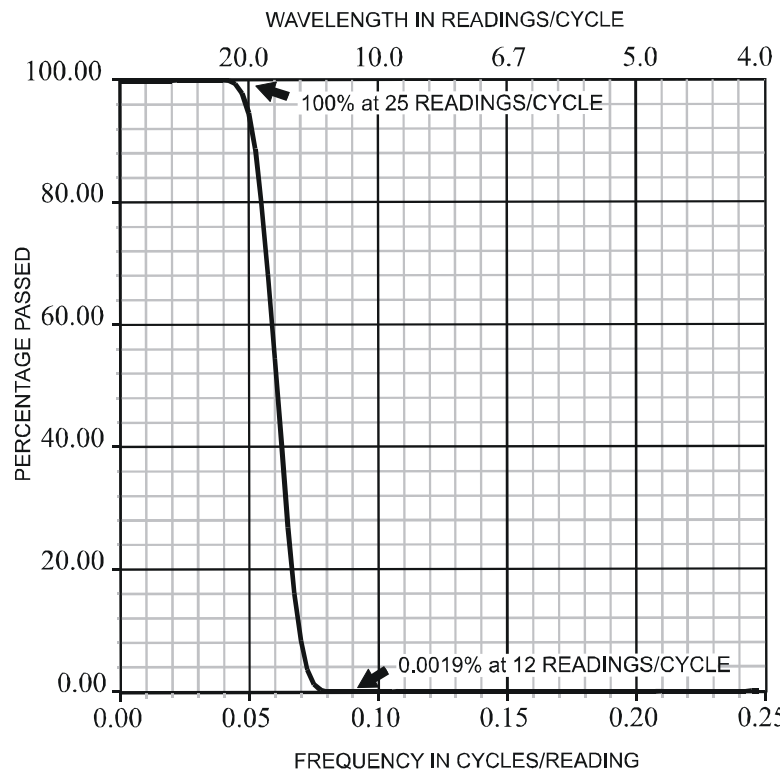
6.7



FILTER 67 COEFFICIENTS

-.0073813819
.0017786870
.0022008393
.0028708524
.0036799926
.0044552023
.0050366484
.0052816825
.0050482578
.0042355750
.0028043608
.0007561474
.0018169265
-.0047570802
-.0078405226
-.010776499
-.013235446
-.014878507
-.015358825
-.014386294
-.011729066
-.0072475690
-.0009241524
.0071362499
.016706382
.027417007
.038819272
.050368667
.061476381
.071564890
.080079578
.086310541
.090552829
.091944844

131 POINT FILTER



131 FILTER COEFFICIENTS

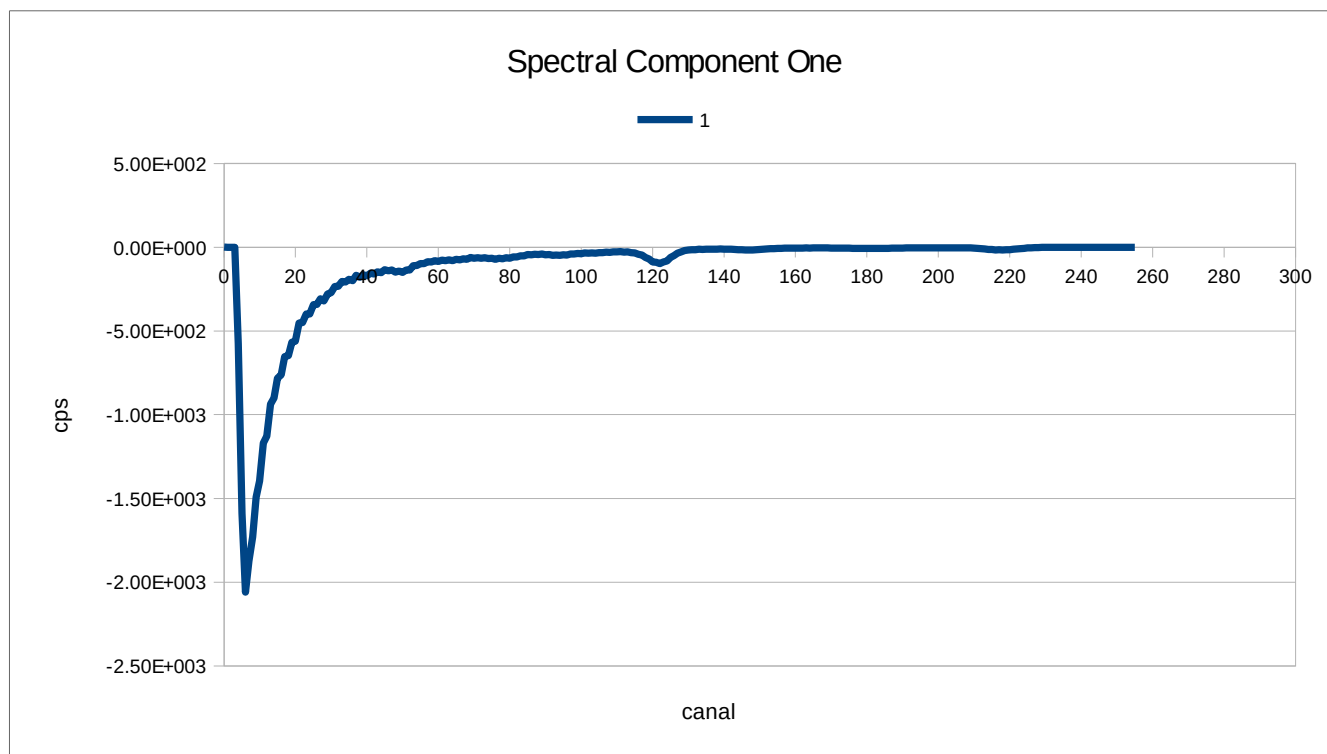
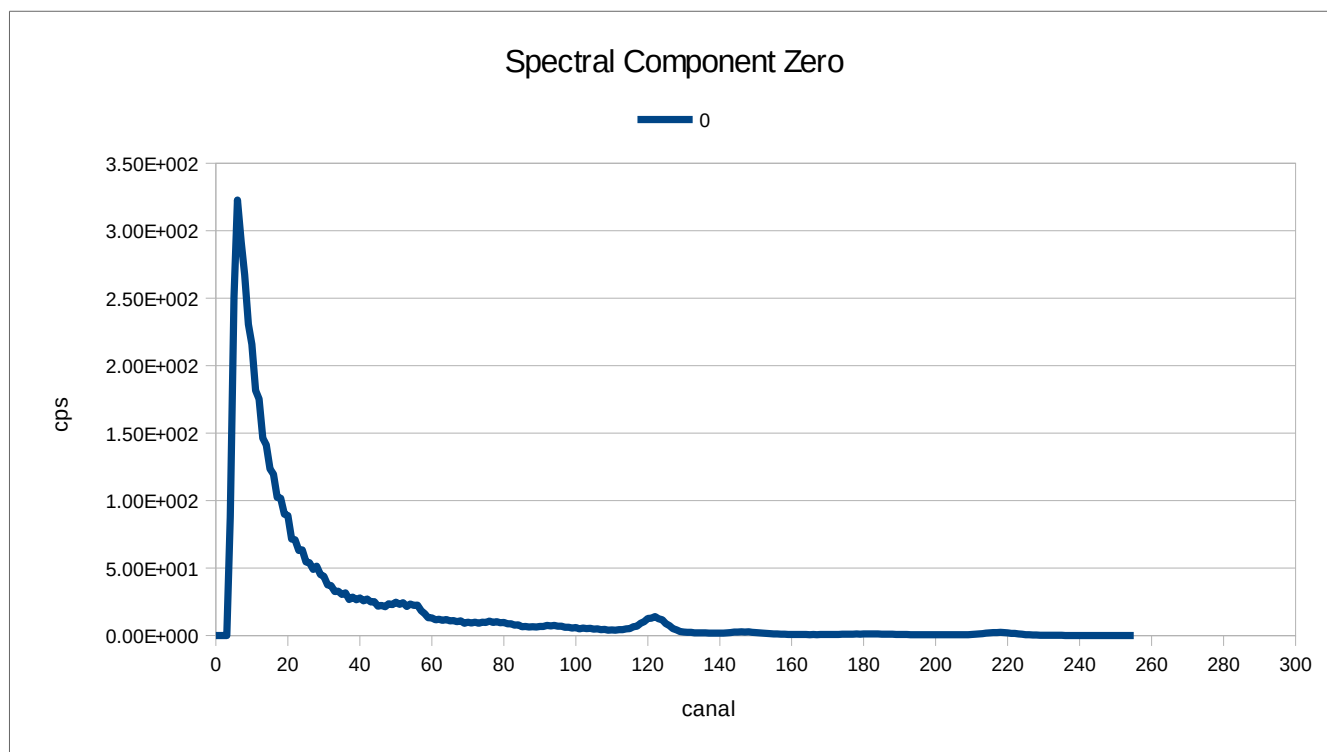
.0000260972	.0021227699	.0387007609
-.0000215508	.0013318287	.0587941859
-.0000347301	.0001445621	.0784115155
-.0000527685	-.0013145414	.0958773646
-.0000689586	-.0028486226	.1096397280
-.0000759605	-.0042091576	.1184433040
-.0000665814	-.0051298564	.1214721169
-.0000353316	-.0051298564	
.0000197128	-.0053688655	
.0000952014	-.0047555092	
.0001815251	-.0032317683	
.0002629864	-.0008823412	
.0003194901	.0020543574	
.0003296908	.0051990722	
.0002754251	.0080698676	
.0001466616	.0101432829	
-.0000539411	.0109319821	
-.0003079391	.0100689900	
-.0005805888	.0073862597	
-.0008235856	.0029746856	
-.0009813262	-.0027858964	
-.0010001866	-.0092349627	
-.0008396489	-.0154811362	
-.0004834514	-.0204909701	
.0000514538	-.0232082194	
.0007104261	-.0226897427	
.0014028256	-.0182407400	
.0020111249	-.0095306391	
.0024068490	.0033276342	
.0024719976	.0197483320	



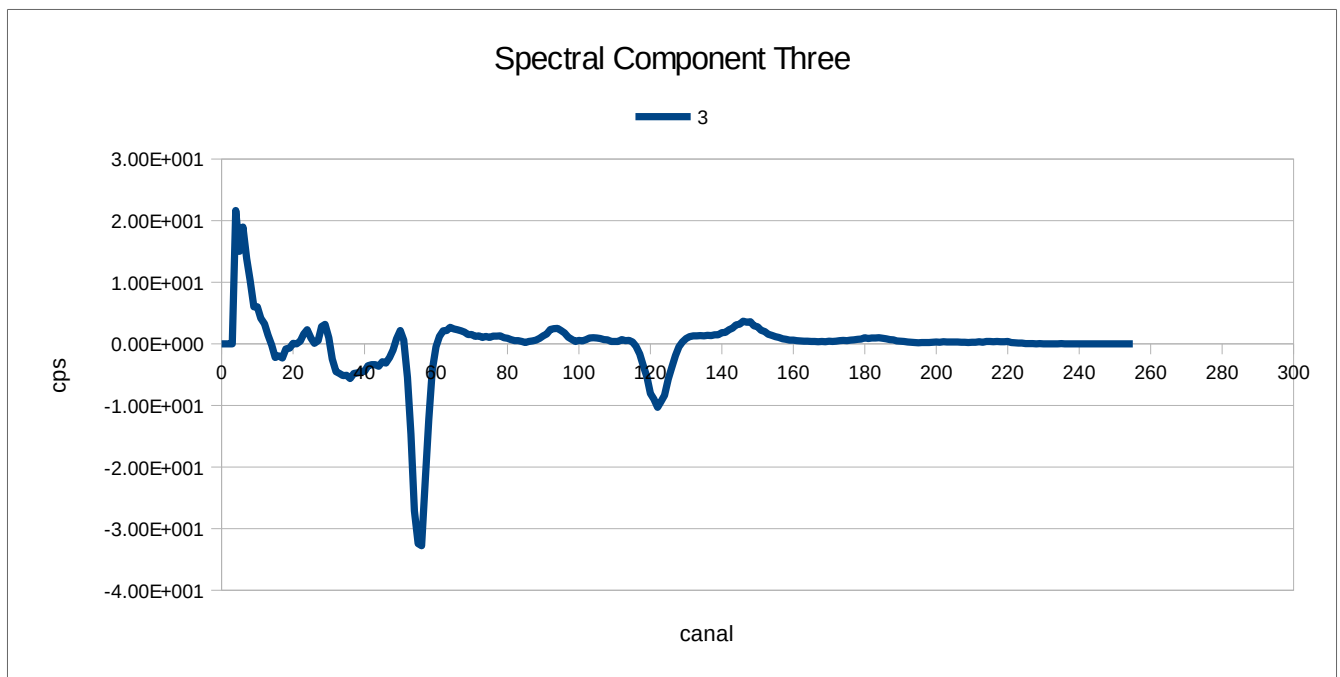
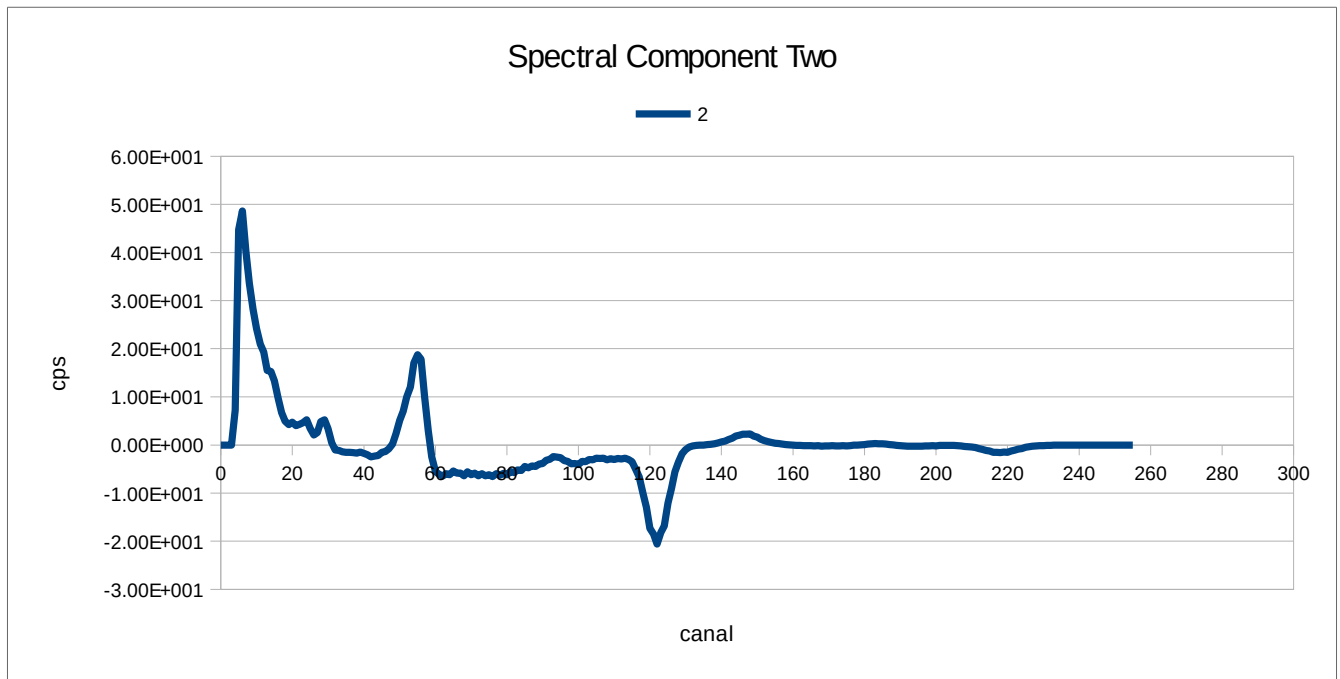
Appendix VIII



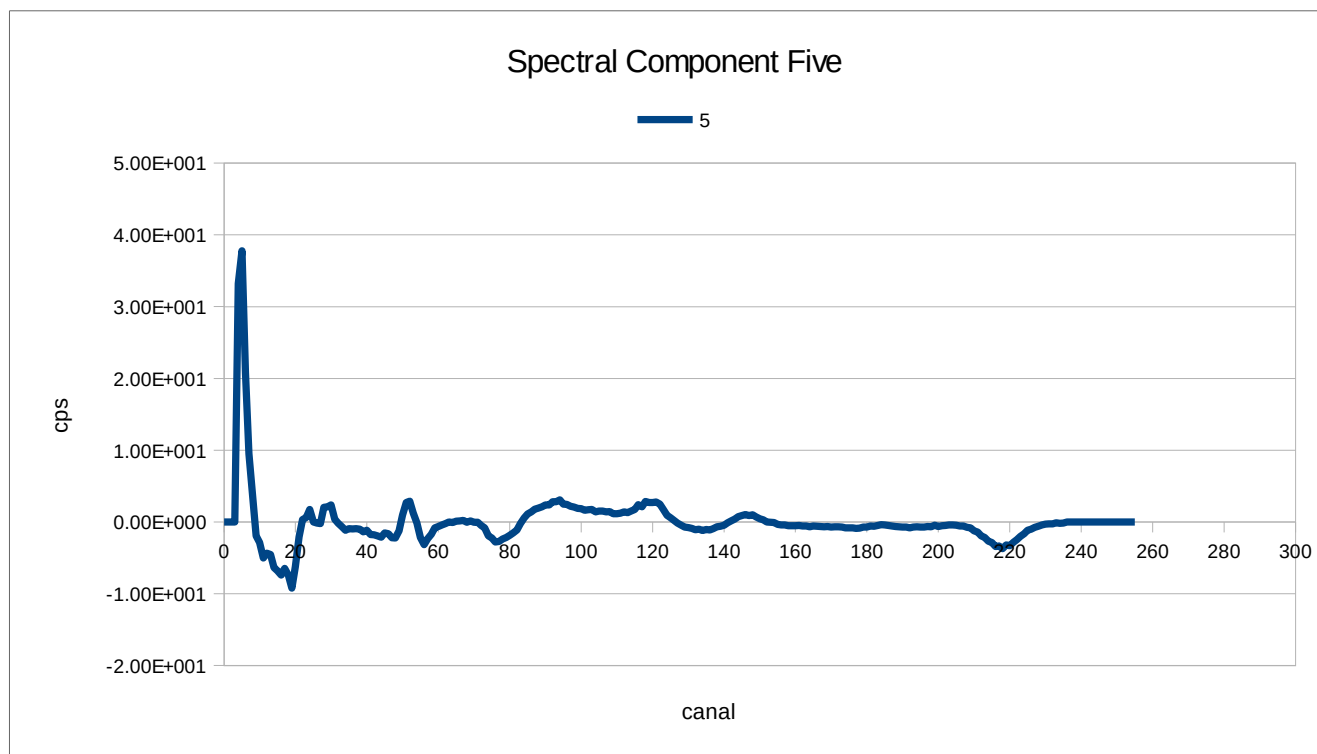
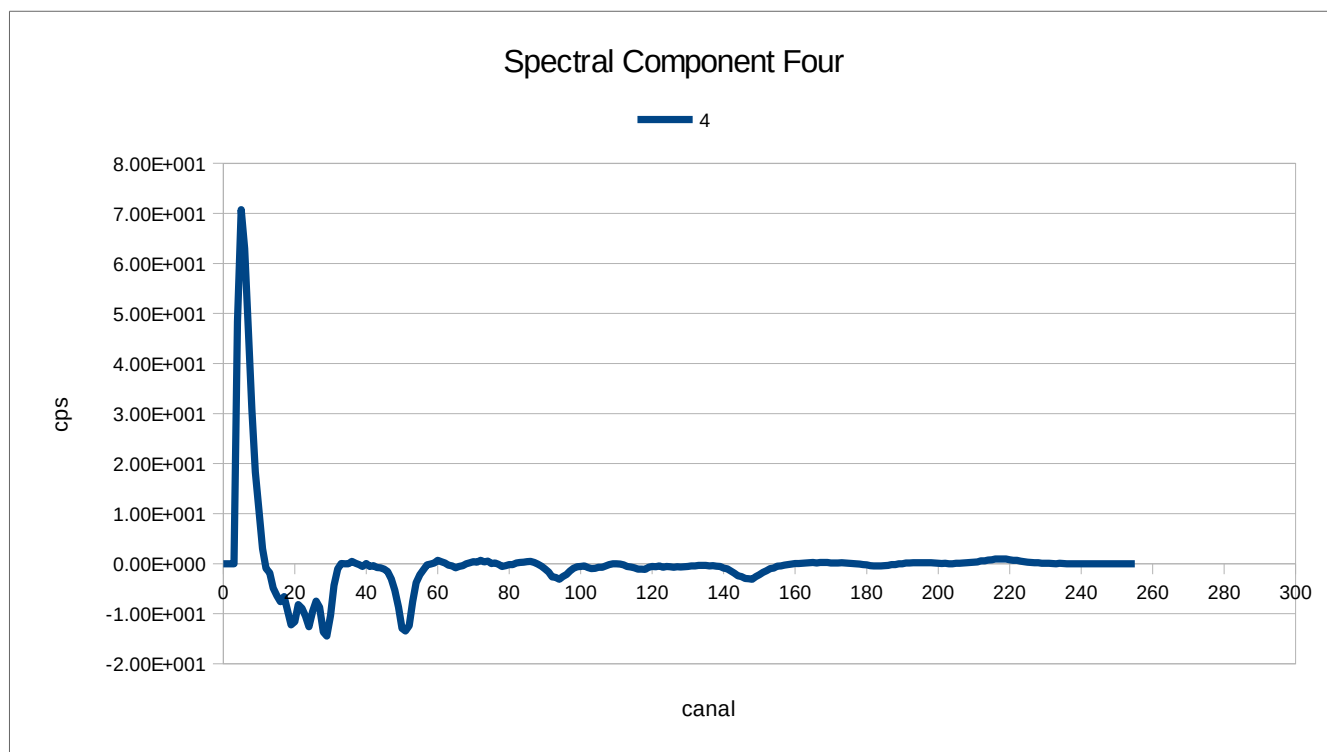
Spectral Components – low flown data



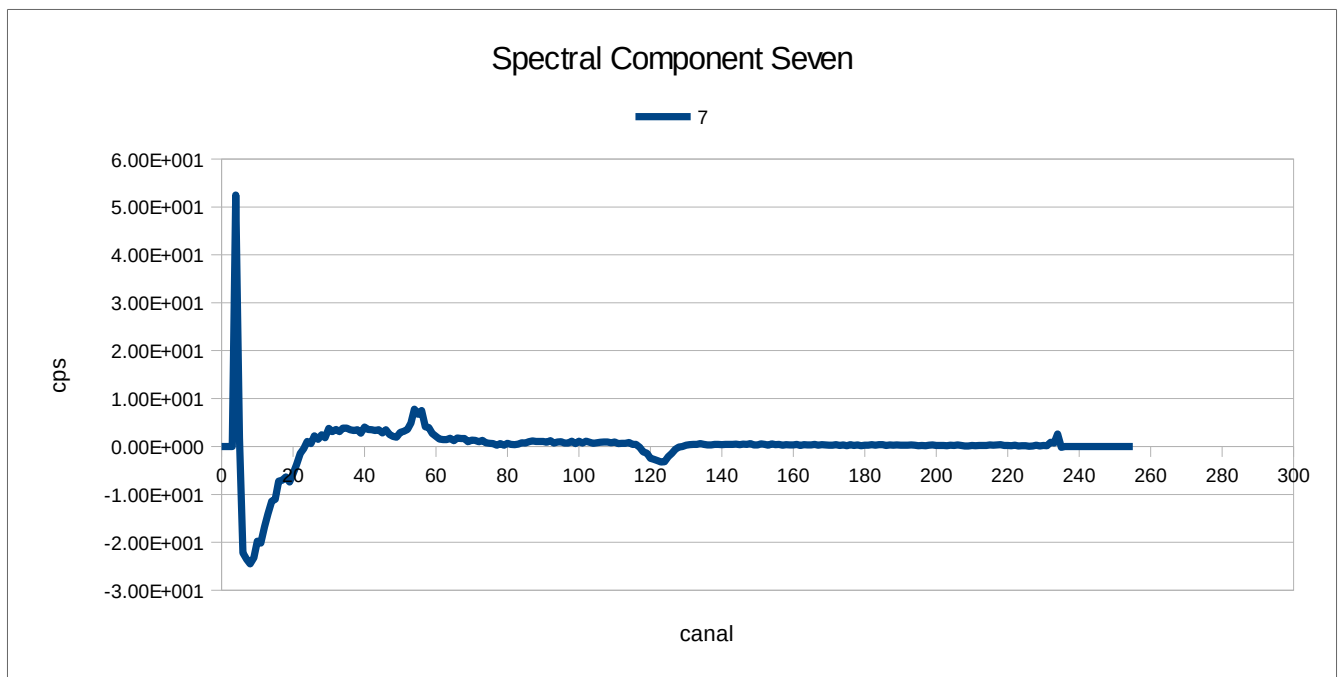
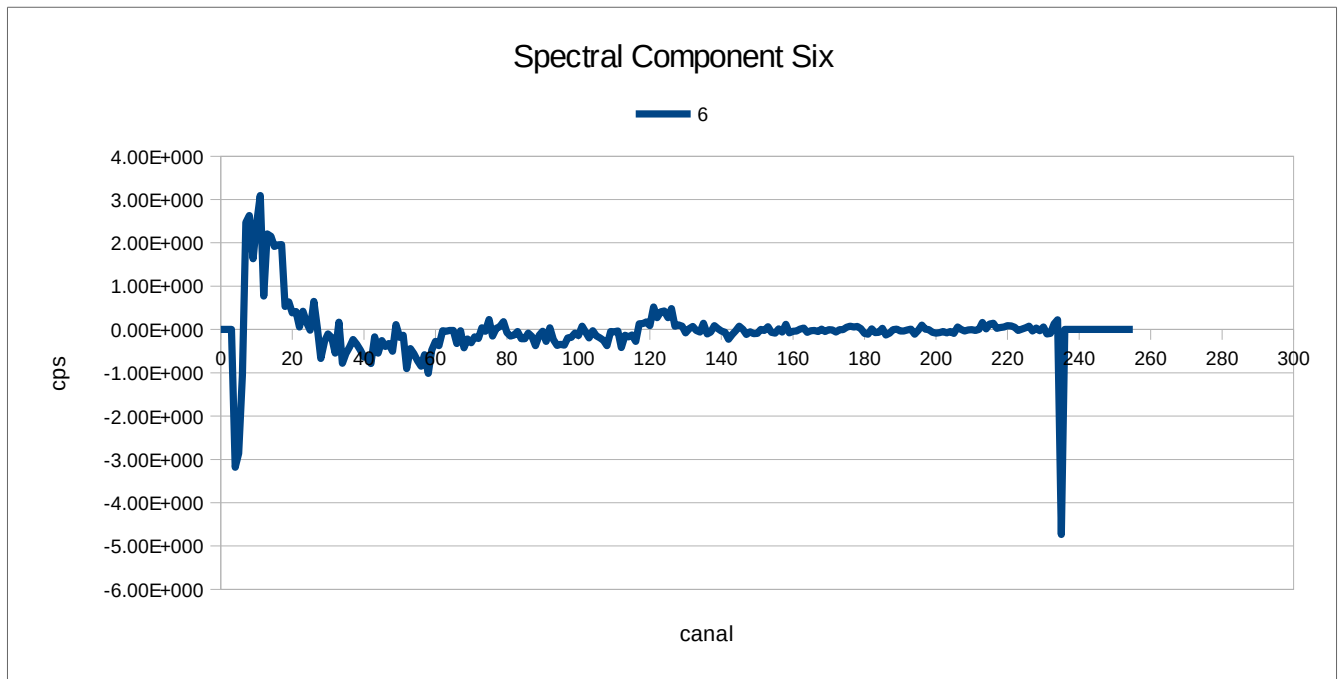
Spectral Components – low flown data



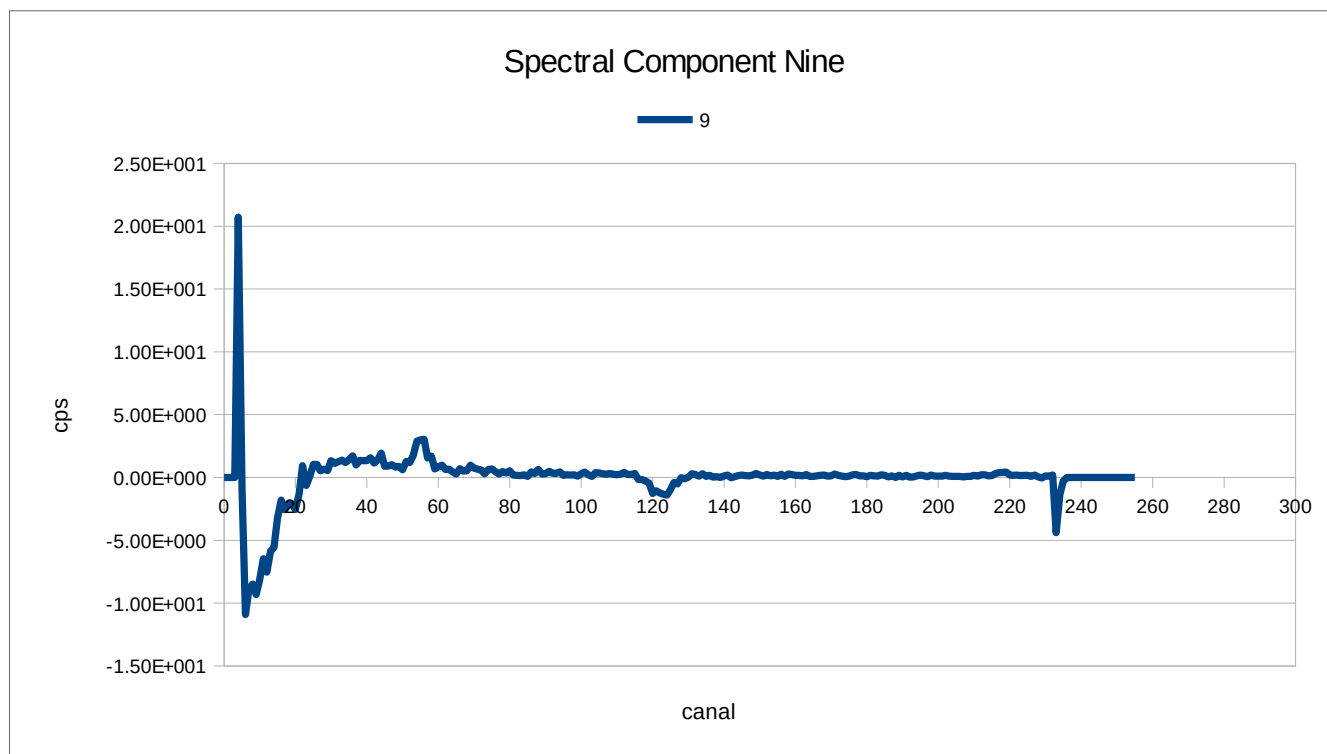
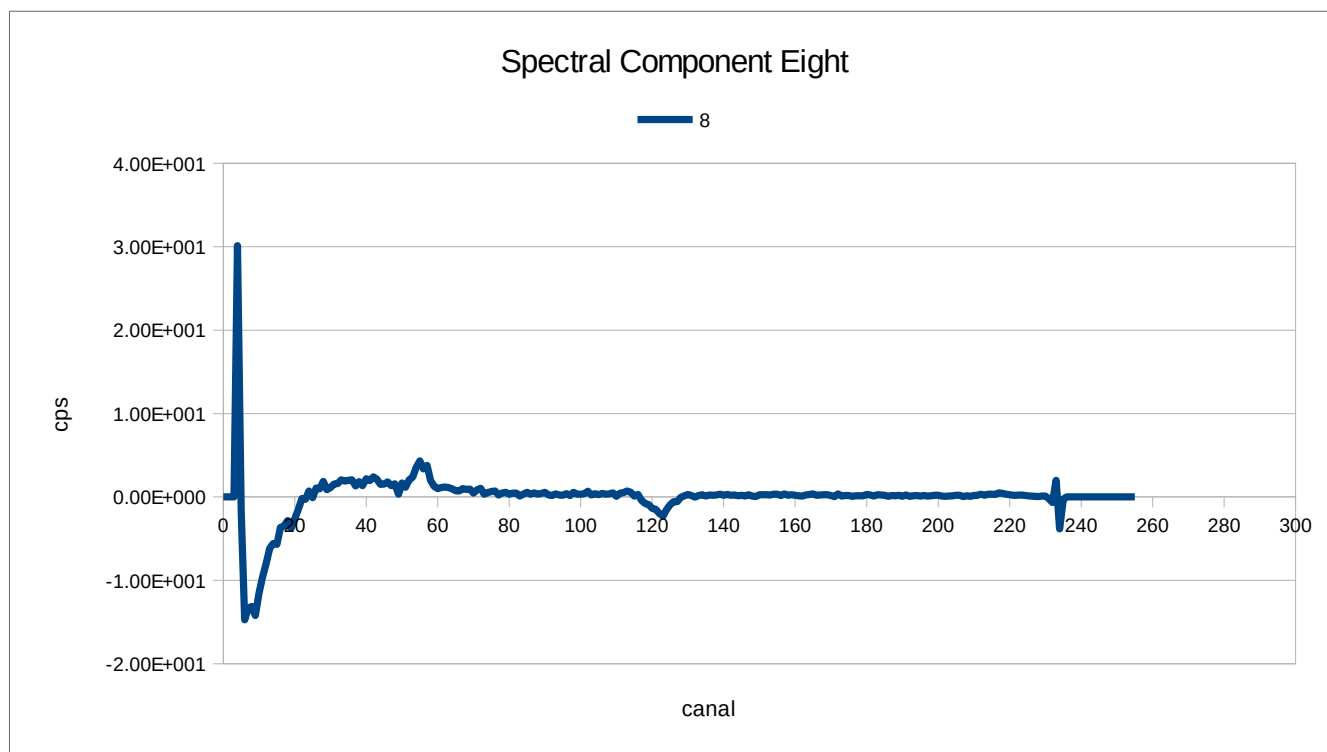
Spectral Components – low flown data



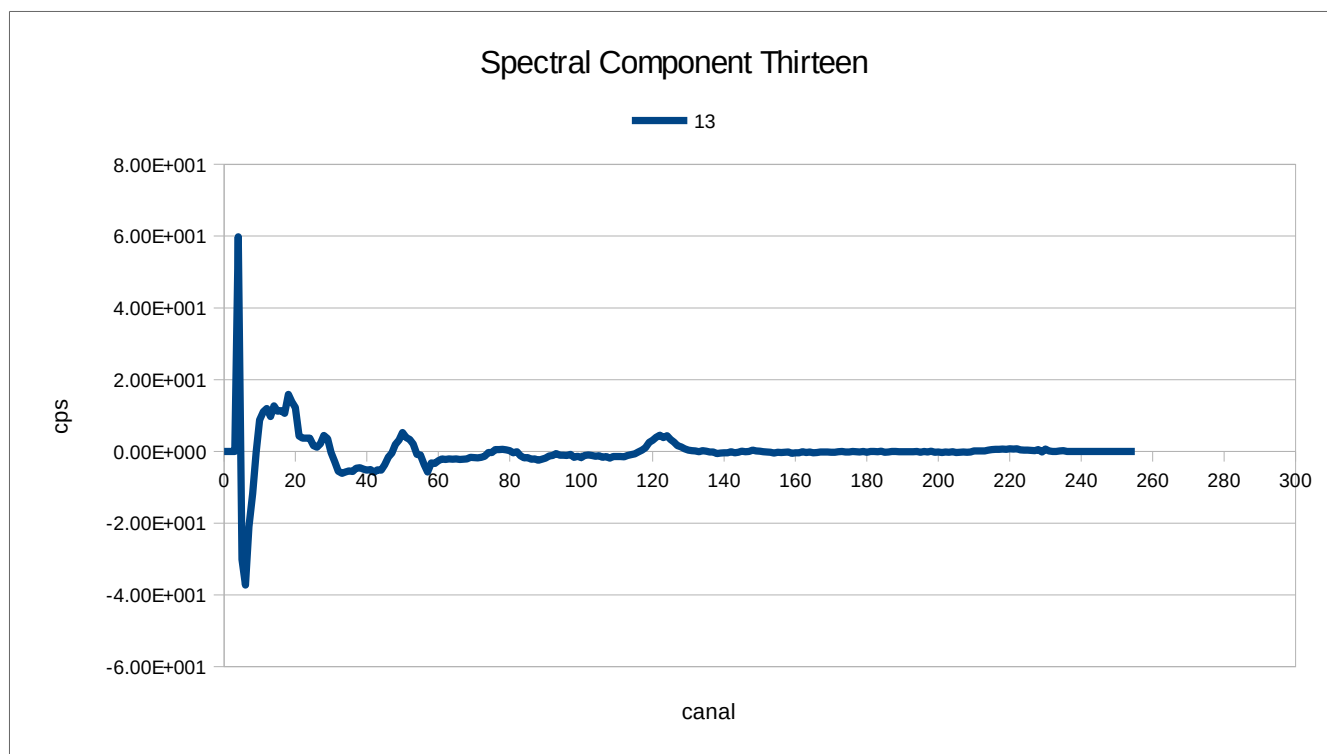
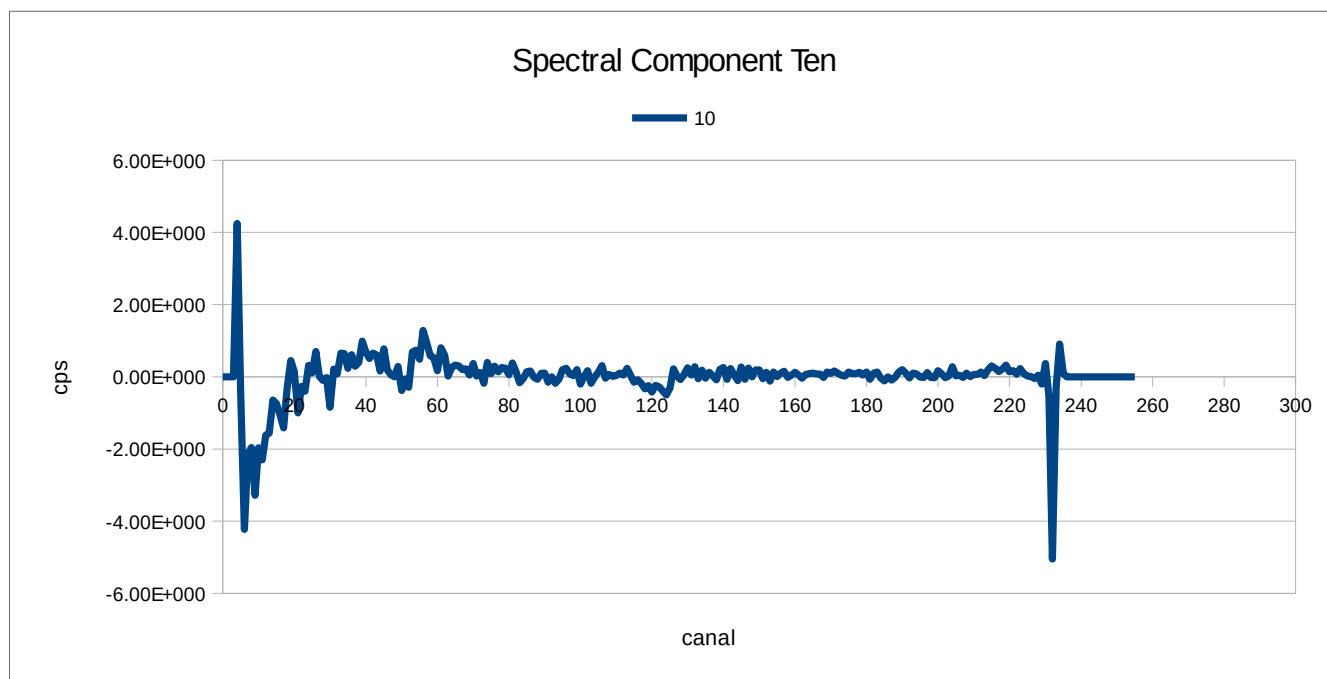
Spectral Components – low flown data



Spectral Components – low flown data



Spectral Components – low flown data

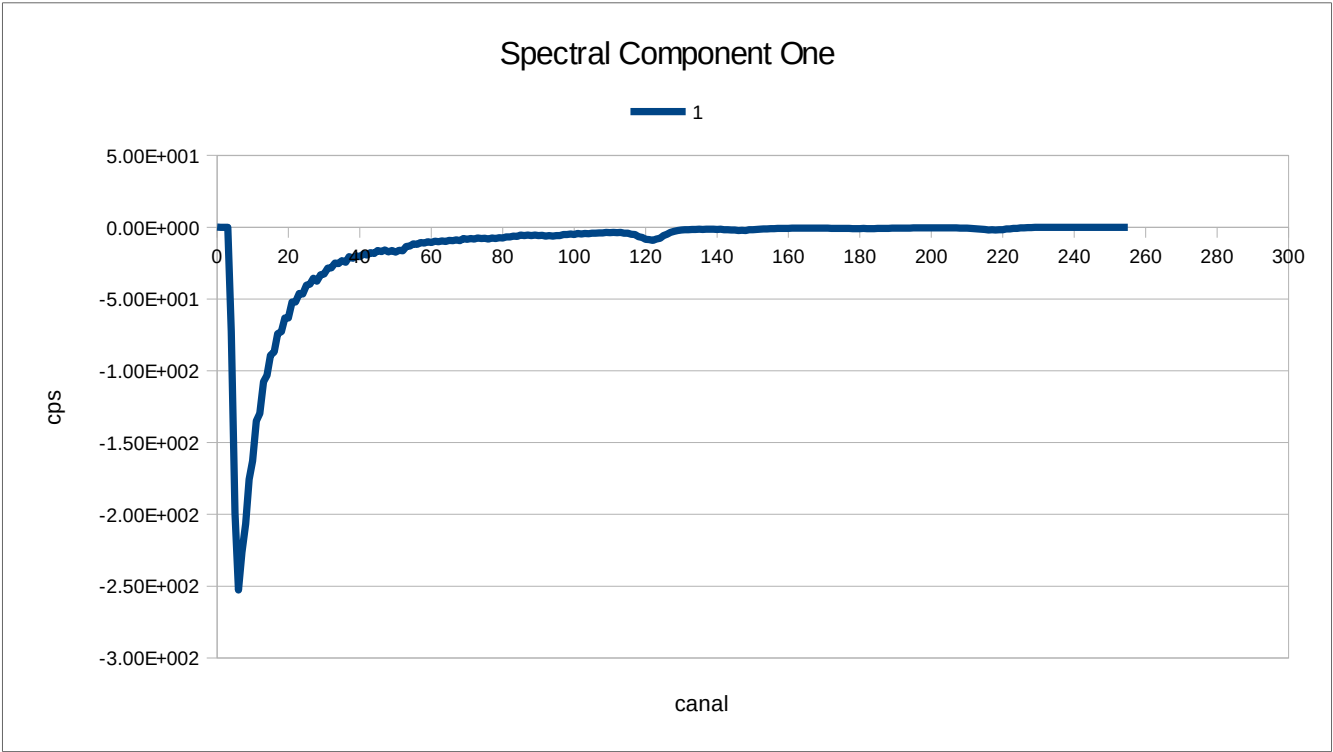
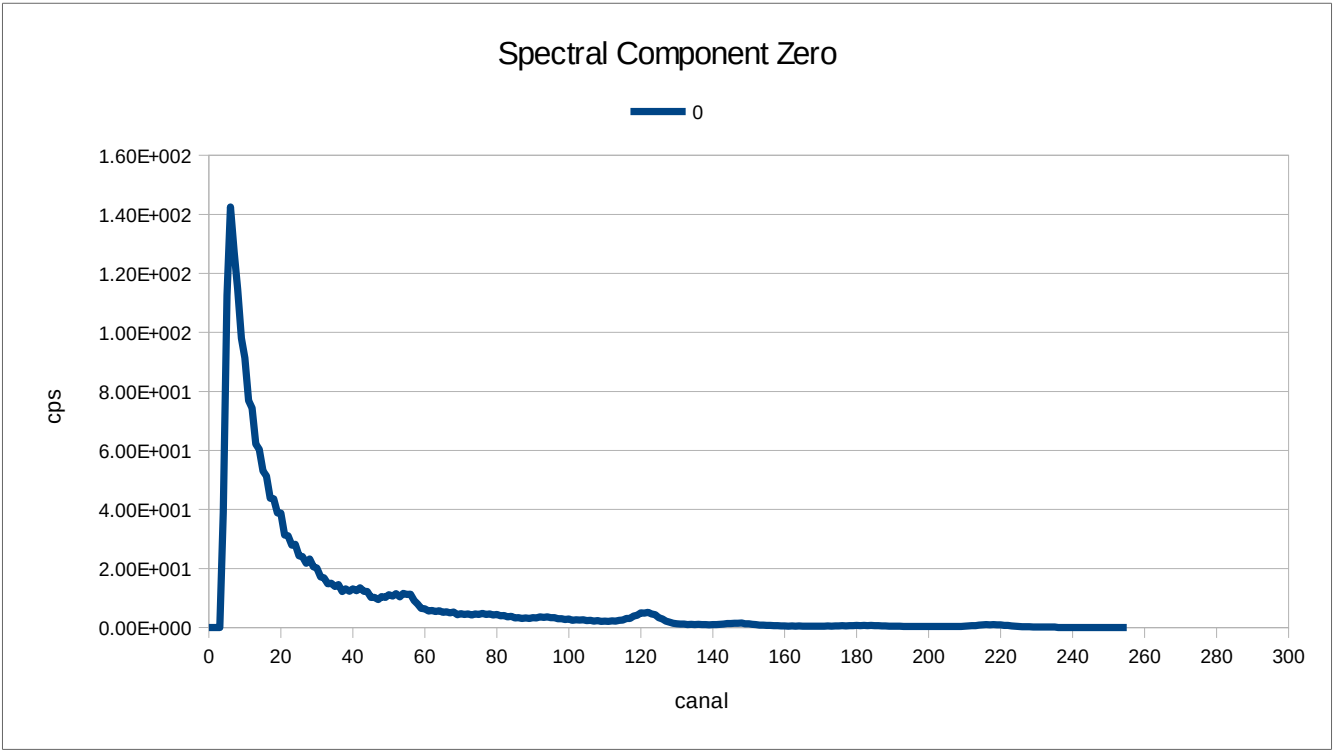




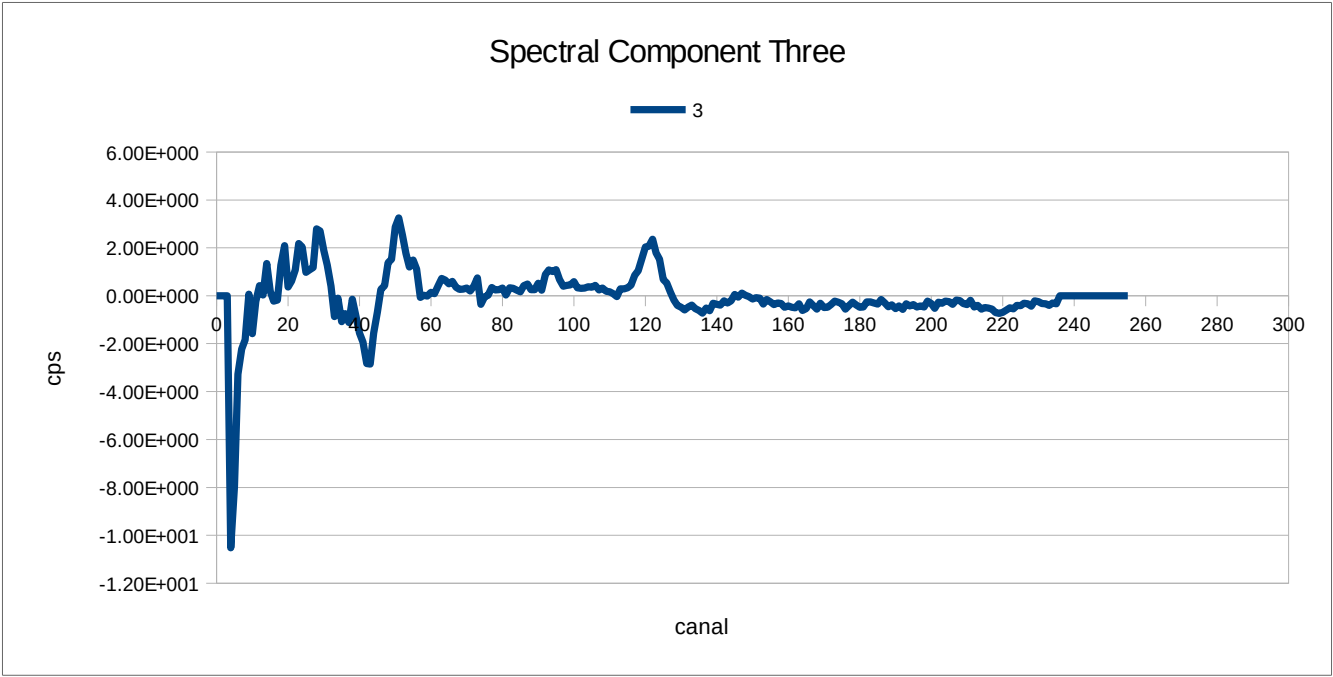
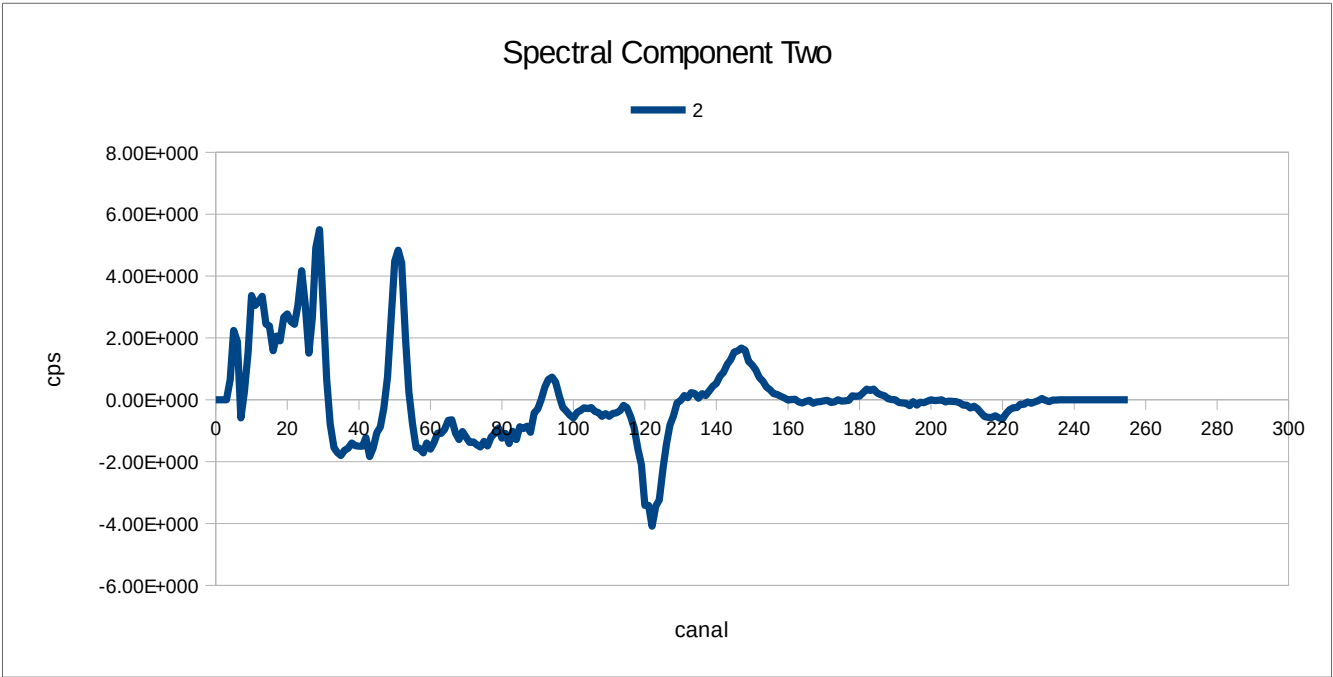
Appendix IX



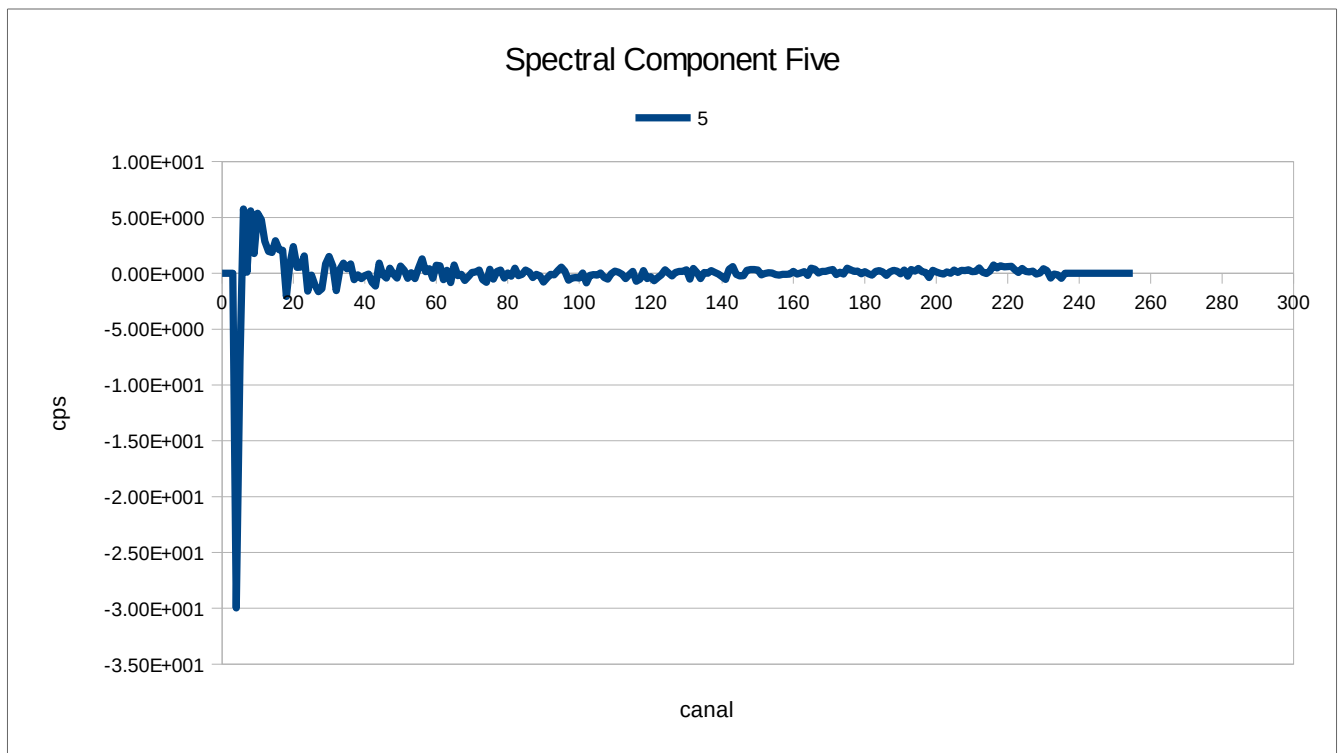
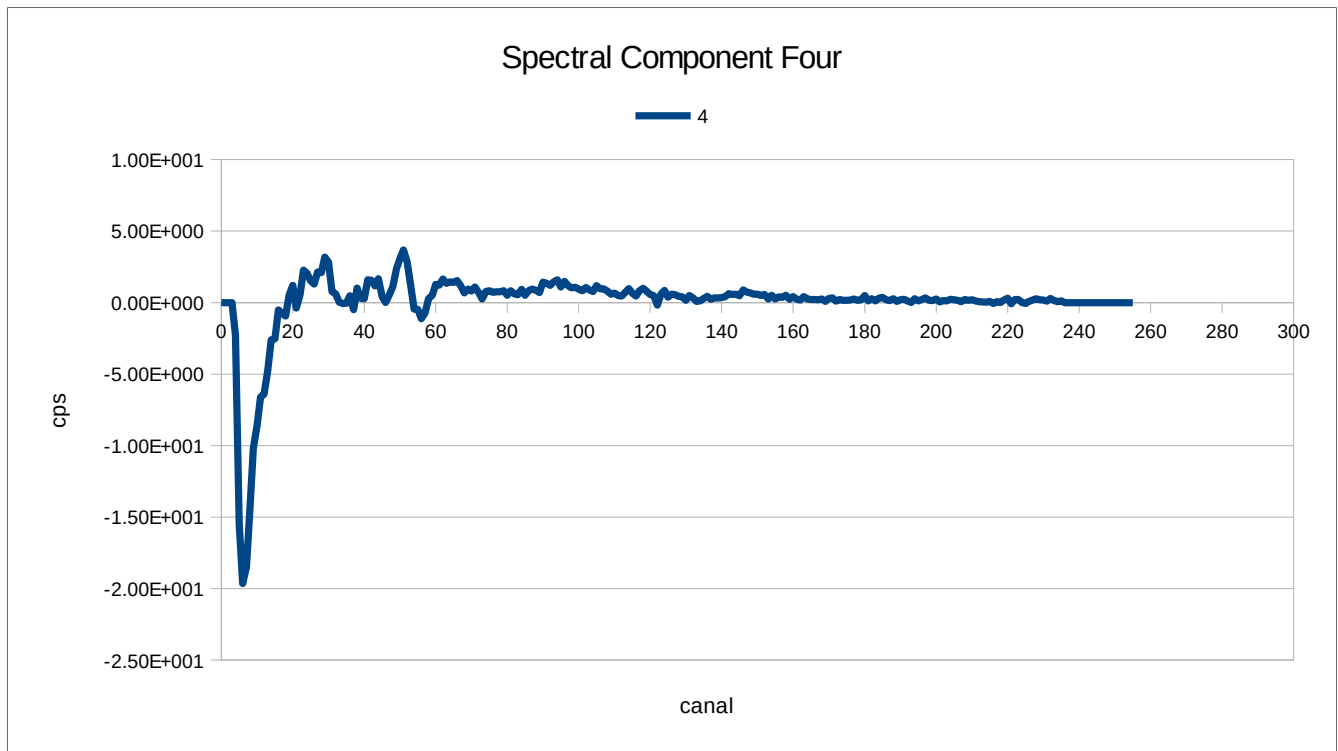
Spectral Components – high flown data



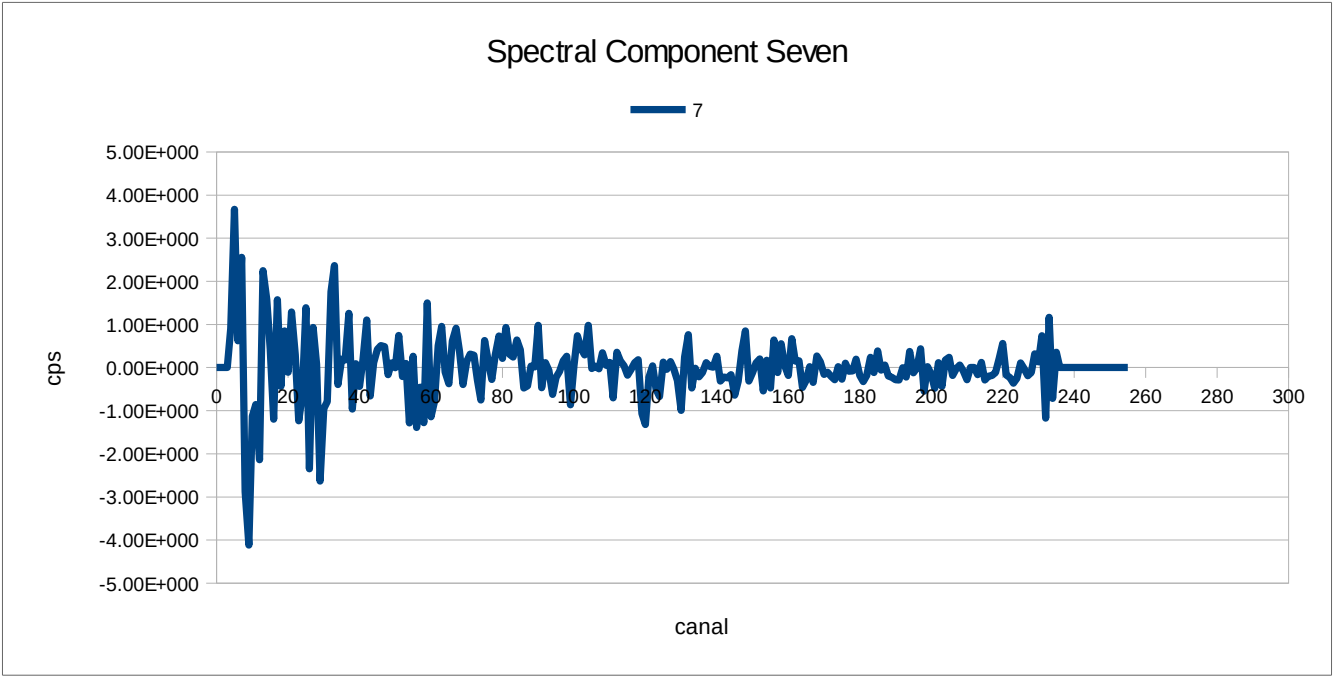
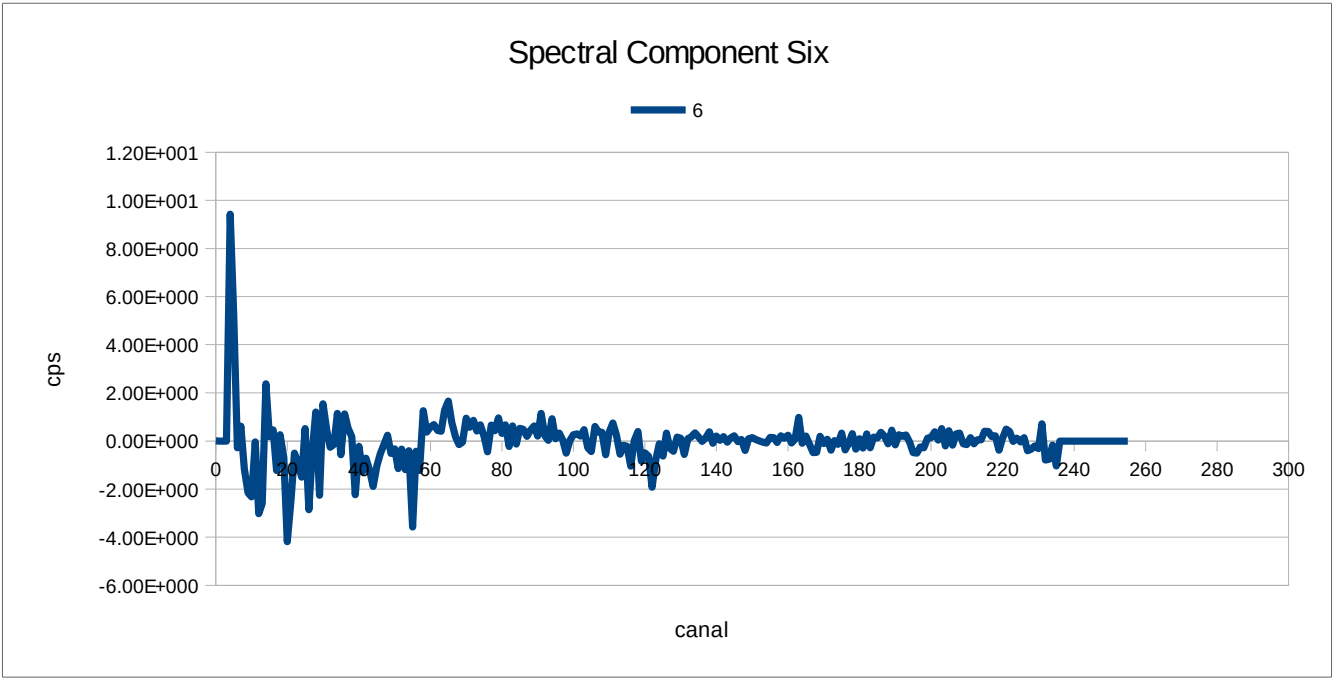
Spectral Components – high flown data



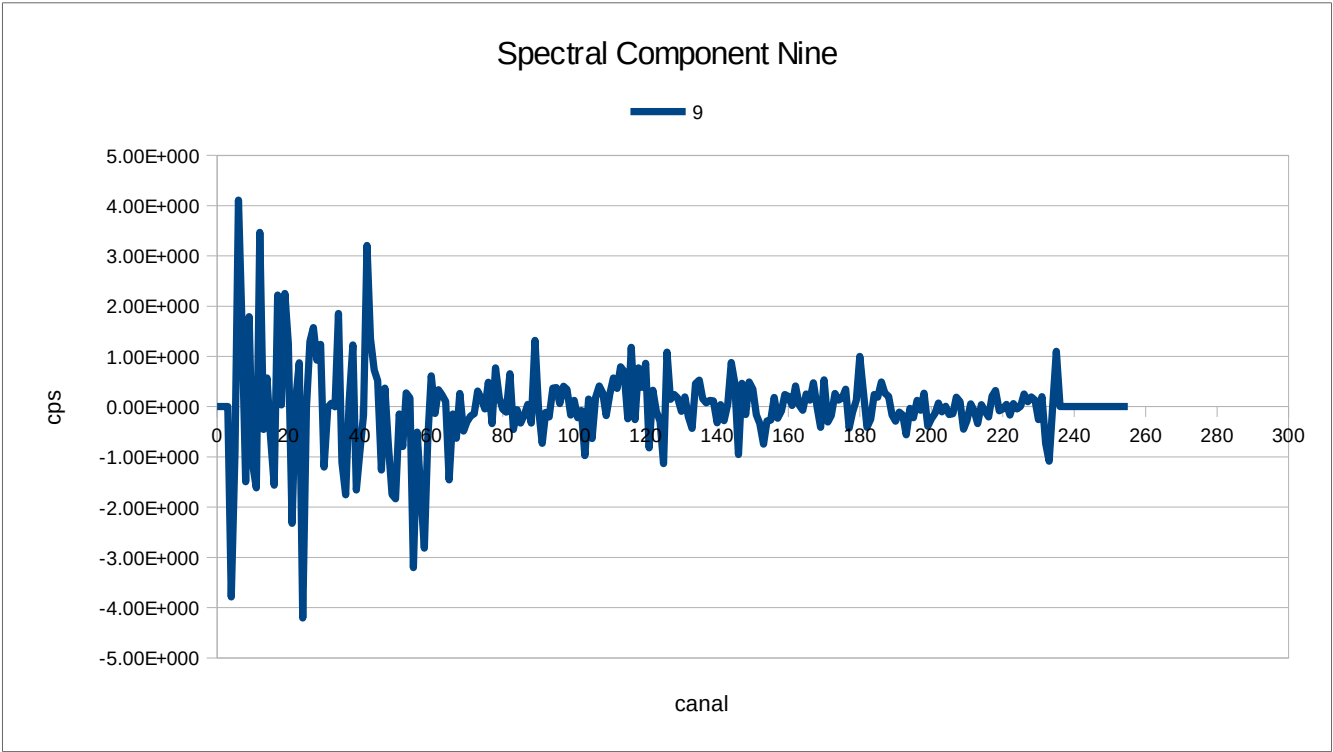
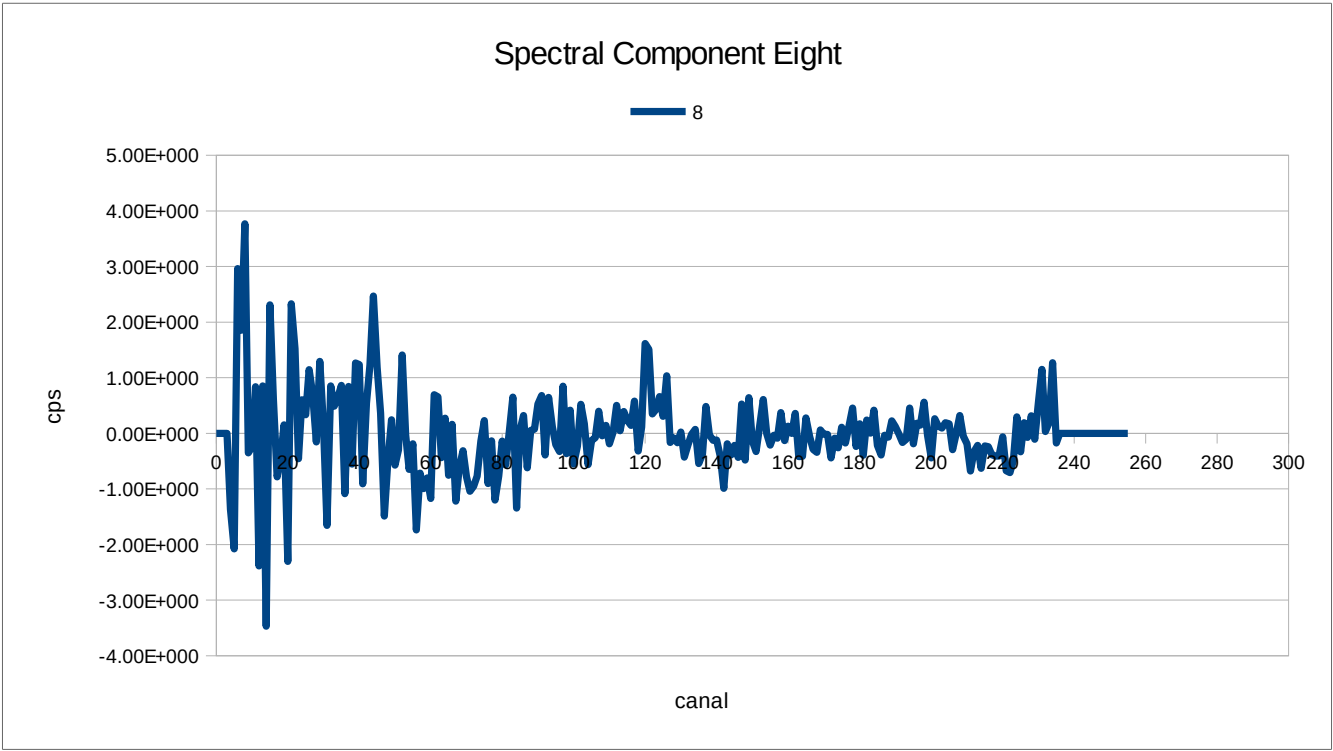
Spectral Components – high flown data



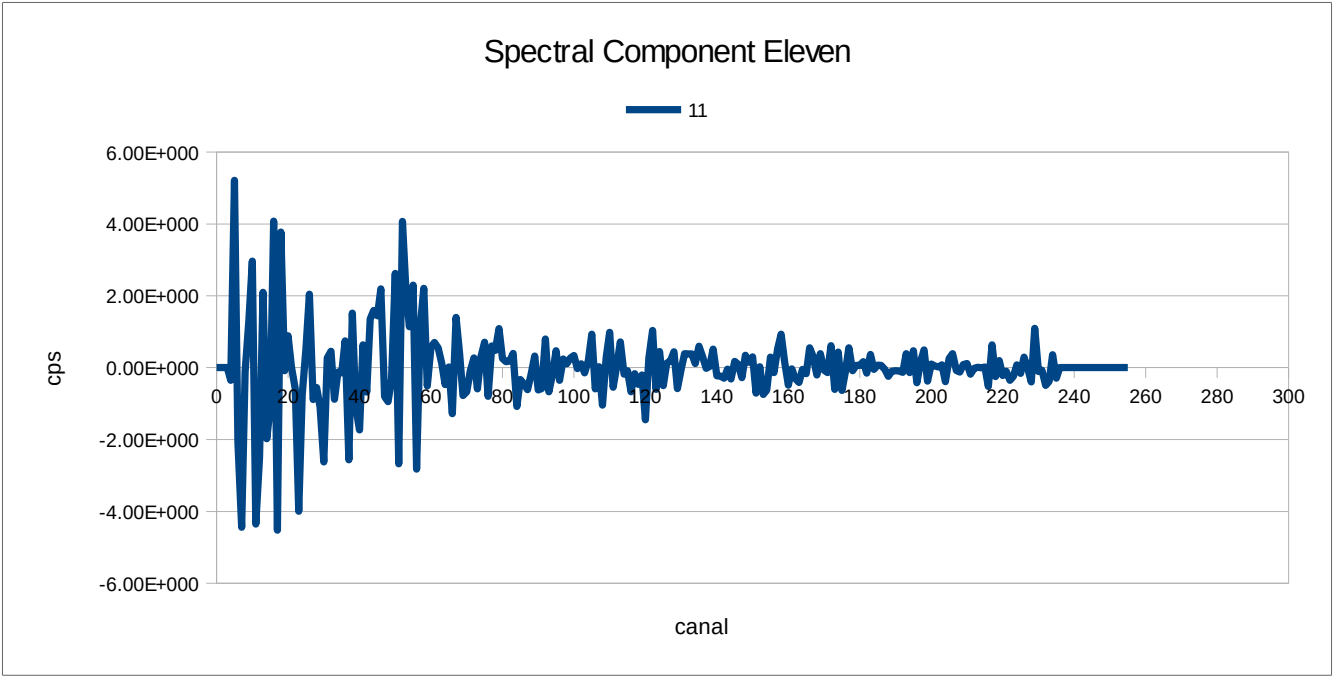
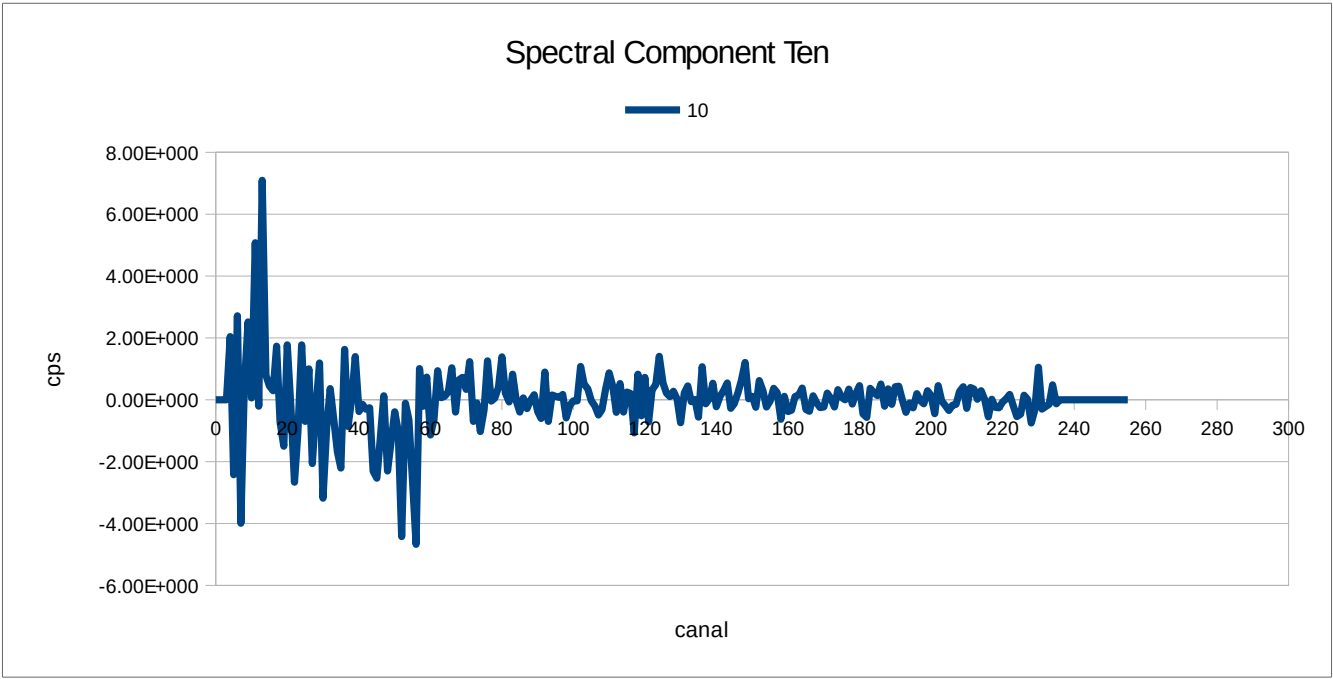
Spectral Components – high flown data



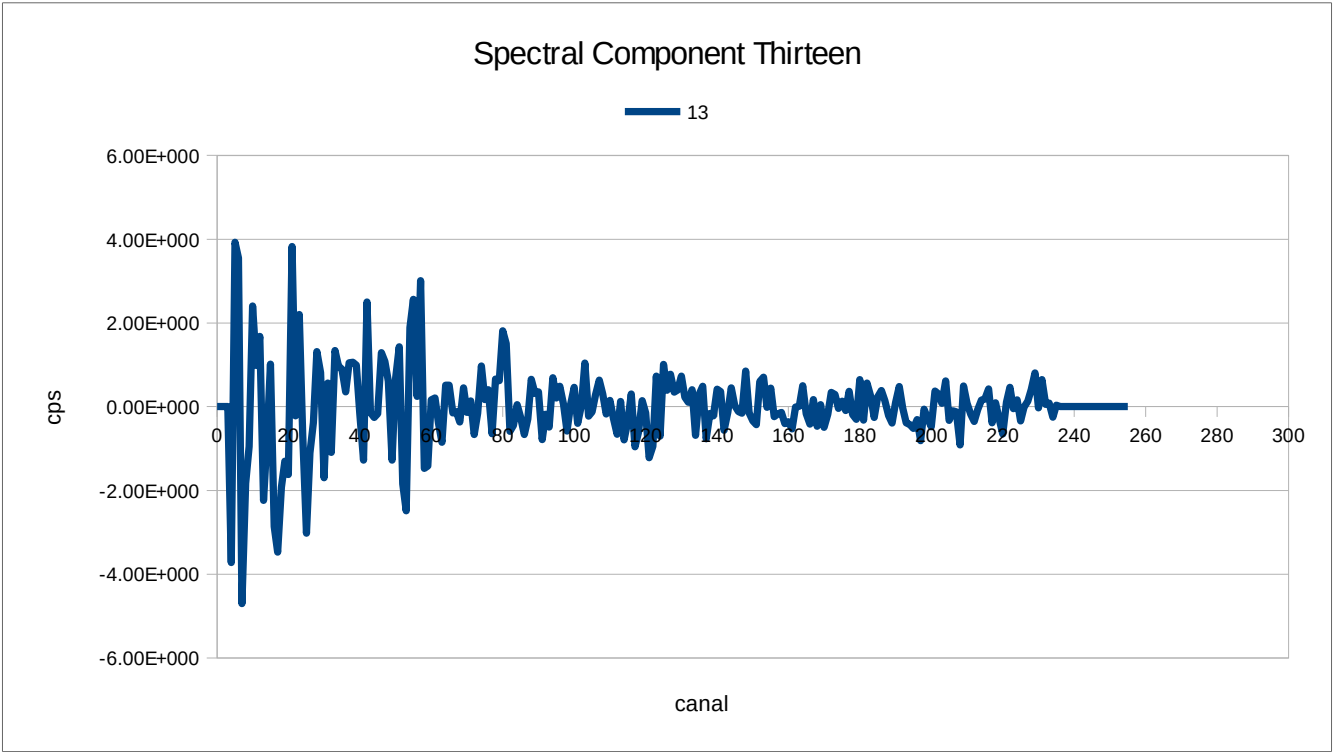
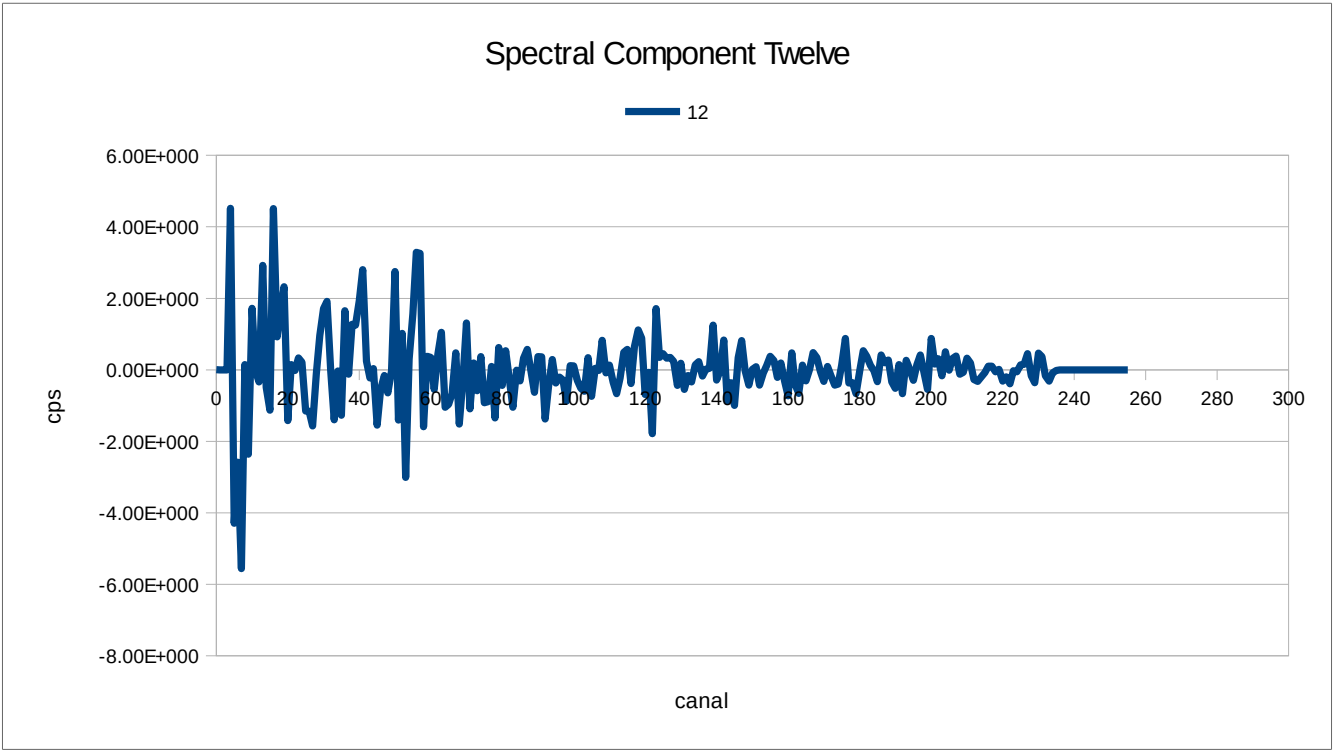
Spectral Components – high flown data



Spectral Components – high flown data



Spectral Components – high flown data





Appendix X



Scale factors

Line Number	Total Count	Potassium	Uranium	Thorium	Time Start (sec)	Time End (sec)
1095.00	1.00	1.00	0.85	1.00	42588	42631
1191.00	1.00	1.00	0.95	1.00	51935	51989
1192.00	1.00	1.00	0.85	1.00	52960	53019
1193.00	1.00	1.00	0.95	1.00	53138	53184
1194.00	1.00	1.00	0.95	1.00	36533	36573
1195.00	1.00	1.00	0.85	1.00	36775	36817
1196.00	1.00	1.00	0.85	1.00	37722	37776
1197.00	1.00	1.00	0.95	1.00	37926	37959
1308.00	1.00	1.00	0.80	1.00	49264	49305
1338.00	0.80	1.00	0.80	1.00	33745	33786
1339.00	0.80	1.00	0.70	1.00	34181	34225
1341.00	1.00	1.00	0.80	1.00	35792	35831
1342.00	1.00	1.00	0.80	1.00	45297	45335
1356.00	0.80	1.00	0.65	1.00	55066	55120
1357.00	0.80	1.00	0.80	1.00	55387	55467
1361.00	1.00	1.00	0.80	1.00	59831	59869
1367.00	1.00	1.00	0.70	1.00	49236	49367
1368.00	1.00	1.00	0.90	1.00	51102	51212
1374.00	1.00	1.00	0.80	1.00	32190	32241
1375.00	1.00	1.00	0.80	1.00	32610	32656
1376.00	1.00	1.00	0.80	1.00	35004	35116
1377.00	1.00	1.00	0.65	1.00	56365	56393
1407.00	0.90	1.00	0.70	1.00	32541	32592
1408.00	0.90	1.00	0.80	1.00	31666	31709
1413.00	1.00	1.00	1.30	1.00	41483	41570
1421.00	0.95	1.00	0.80	1.00	34218	34384
1422.01	0.95	1.00	0.85	1.00	43336	43513
1423.01	0.95	1.00	0.75	1.00	42772	42932
1424.00	0.95	1.00	0.80	1.00	38895	39058
1425.00	0.95	1.00	0.90	1.00	39470	39624
1426.00	0.90	1.00	0.85	1.00	41505	41580
1427.00	0.90	1.00	0.85	1.00	52529	52612
1429.00	1.00	1.00	0.90	1.00	55232	55317
1430.00	1.00	1.00	0.90	1.00	57666	57769
1431.00	1.00	1.00	0.90	1.00	58518	58580
1435.00	1.00	1.00	0.85	1.00	49815	49880
1436.00	0.95	1.00	0.80	1.00	31770	31840
1438.00	1.00	1.00	0.85	1.00	34752	34770
1439.00	1.00	1.00	0.95	1.00	37205	37251
1464.00	1.00	1.00	0.75	1.00	33616	33661
1464.01	1.00	1.00	0.70	1.00	34910	35035
1465.00	1.00	1.00	0.85	1.00	35994	36179
1466.01	1.00	1.00	0.90	1.00	38661	38796
1467.00	1.00	1.00	0.90	1.00	39762	39844
1471.00	0.90	1.00	0.75	1.00	33370	33565
1472.00	0.90	1.00	0.75	1.00	35732	35887
1473.00	1.00	1.00	0.70	1.00	36854	36879
1474.00	1.00	1.00	0.90	1.00	39140	39164
1479.00	1.15	1.00	1.00	1.00	52431	52462
1480.00	1.00	1.00	0.85	1.00	54426	54513
1481.00	1.00	1.00	0.85	1.00	55592	55680
1484.00	0.90	1.00	0.83	1.00	59902	59997
1485.00	0.95	1.00	0.83	1.00	61051	61142
1486.00	1.00	1.00	0.83	1.00	61959	62131

Scale factors

Line Number	Total Count	Potassium	Uranium	Thorium	Time Start (sec)	Time End (sec)
1488.00	1.00	1.00	0.90	1.00	46904	47065
1491.00	1.00	1.00	0.85	1.00	51702	51830
1495.00	1.00	1.00	0.85	1.00	35103	35203
1496.01	1.00	1.00	0.85	1.00	36288	36393
1525.00	1.00	1.00	0.55	1.00	55209	55293
1526.00	1.00	1.00	0.90	1.00	55701	55786
1552.10	1.00	1.00	0.90	1.00	35246	35338
1553.10	1.00	1.00	0.85	1.00	35456	35543
1597.00	1.00	1.00	0.80	1.00	00000	99999
1598.00	1.00	1.00	0.80	1.00	00000	99999
1599.00	1.00	1.00	0.90	1.00	00000	99999
1601.00	1.00	1.00	0.90	1.00	00000	99999
1602.00	1.00	1.00	0.90	1.00	00000	99999
1603.00	1.00	1.00	0.80	1.00	00000	99999
1604.00	1.00	1.00	0.80	1.00	00000	99999
1605.00	1.00	1.00	0.90	1.00	00000	99999
1606.00	1.00	1.00	0.90	1.00	00000	99999
1608.00	1.00	1.00	0.90	1.00	00000	99999
1609.00	1.00	1.00	0.90	1.00	00000	99999
1618.00	0.95	1.00	0.90	1.00	48318	48406
1619.00	0.95	1.00	0.90	1.00	49598	49717
1620.00	0.95	1.00	0.90	1.00	55313	55425
1140.00	1.00	1.00	0.70	1.00	33668	33692
1403.00	1.00	1.00	1.30	1.00	34422	34466
1404.00	1.00	1.00	1.30	1.00	34726	34801
1408.00	1.00	1.00	1.30	1.00	31314	31398
1413.00	1.00	1.00	0.80	1.00	40679	40725
1420.00	1.00	1.00	0.80	1.00	33703	33819
1426.00	1.00	1.00	0.85	1.00	42043	42097
1427.00	1.00	1.00	0.85	1.00	52012	52067
1471.00	0.90	1.00	0.70	1.00	34012	34119
1454.00	1.00	1.00	0.85	1.00	37325	37415
1465.00	1.00	1.00	0.80	1.00	37187	37243
1495.00	1.00	1.00	0.85	1.00	34477	34592
1496.03	1.00	1.00	0.90	1.00	50197	50320



Appendix XI



Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
101.00	1017	81120	81228	C0101.0B_1017	1/1
102.00	1017	80891	81002	C0102.0F_1017_1	1/1
103.00	1017	80616	80767	C0103.0B_1017	1/1
104.00	1017	80337	80487	C0104.0F_1017	1/1
105.00	1017	80038	80230	C0105.0B_1017	1/1
106.00	1017	79719	79926	C0106.0F_1017	1/1
107.00	1017	79339	79625	C0107.0B_1017	1/1
108.00	1017	78957	79241	C0108.0F_1017	1/1
109.00	1017	78495	78829	C0109.0B_1017	1/1
110.00	1017	78060	78388	C0110.0F_1017	1/1
111.00	1017	77484	77904	C0111.0B_1017	1/1
112.00	1017	76868	77368	C0112.0F_1017	1/1
113.00	1017	75904	76678	C0113.0B_1017	1/1
114.00	1017	74918	75756	C0114.0F_1017	1/1
115.00	1013	71972	73389	C0115.0B_1013	1/1
116.00	1013	73677	75159	C0116.0F_1013	1/1
117.00	1013	75351	77135	C0117.0B_1013	1/1
118.00	1013	77398	79207	C0118.0F_1013	1/1
119.00	1013	79369	81235	C0119.0B_1013	1/1
120.00	1013	81395	83126	C0120.0F_1013	1/1
121.00	1013	83266	85196	C0121.0B_1013	1/1
122.00	1014	54837	56618	C0122.0F_1014	1/1
123.00	1014	56740	58554	C0123.0B_1014_2	1/1
124.00	1014	50921	52747	C0124.0F_1014	1/1
125.00	1014	52856	54699	C0125.0B_1014_1	1/1
126.00	1014	46934	48797	C0126.0F_1014	1/1
127.00	1014	48901	50778	C0127.0B_1014_1	1/1
128.00	1012	48946	49905	C0128.0F_1012	1/1
128.01	1014	43887	44800	C0128.0F_1014	1/1
129.00	1014	44894	46801	C0129.0B_1014	1/1
130.00	1012	44720	46611	C0130.0F_1012	1/1
131.00	1012	46735	48810	C0131.0B_1012	1/1
132.00	1011	58969	60911	C0132.0F_1011	1/1
133.00	1011	61042	63082	C0133.0B_1011	1/1
134.00	1009	73073	75232	C0134.0F_1009	1/1
135.00	1009	70291	72897	C0135.0B_1009	1/1
136.00	1014	58963	60941	C0136.0F_1014	1/1
137.00	1009	75462	78115	C0137.0B_1009	1/1
138.00	1009	78267	80278	C0138.0F_1009	1/1
139.00	1009	80452	82542	C0139.0B_1009	1/1
139.01	1011	63614	63982	C0139.0B_1011	1/1
140.00	1021	43954	46081	C0140.0F_1021	1/1
141.00	1021	46218	48436	C0141.0B_1021	1/1
142.00	1021	48549	50671	C0142.0F_1021	1/1
143.00	1021	50817	53079	C0143.0B_1021	1/1
144.00	1021	53213	55333	C0144.0F_1021	1/1
145.00	1021	55461	57754	C0145.0B_1021	1/1
146.00	1021	57878	60042	C0146.0F_1021	1/1
147.00	1021	60185	62501	C0147.0B_1021	1/1
148.00	1018	65463	67647	C0148.0F_1018	1/1
149.00	1021	69109	71585	C0149.0B_1021	1/1
150.00	1009	67000	69517	C0150.0F_1009	1/2
150.00				C0150.0F_1009_1	2/2
151.00	1018	62951	65319	C0151.0B_1018	1/1
152.00	1021	71776	73168	C0152.0F_1021	1/1
152.01	1022	43932	44753	C0152.0F_1022	1/1
153.00	1015	44622	46887	C0153.0B_1015	1/2
153.00				C0153.0B_1015_1	2/2

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
154.00	1015	47001	49372	C0154.0F_1015	1/2
154.00				C0154.0F_1015_1	2/2
155.00	1015	49479	51733	C0155.0B_1015	1/1
156.00	1015	51858	54204	C0156.0F_1015	1/1
157.00	1015	54298	56537	C0157.0B_1015	1/1
158.00	1015	56675	59028	C0158.0F_1015_1	1/1
159.00	1015	69908	72202	C0159.0B_1015	1/2
159.00				C0159.0F_1015	2/2
160.00	1015	72391	74877	C0160.0F_1015_1	1/1
161.00	1015	75063	77331	C0161.0B_1015	1/2
161.00				C0161.0B_1015_1	2/2
162.00	1015	77481	80031	C0162.0F_1015	1/2
162.00				C0162.0F_1015_1	2/2
163.00	1015	80149	82469	C0163.0B_1015	1/2
163.00				C0163.0B_1015_1	2/2
164.00	1016	46646	48989	C0164.0F_1016_1	1/1
165.00	1016	44218	46518	C0165.0B_1016	1/1
166.00	1018	59546	61790	C0166.0F_1018	1/1
167.00	1018	57058	59442	C0167.0B_1018	1/1
168.00	1014	79288	81731	C0168.0F_1014	1/1
169.00	1014	76804	79162	C0169.0B_1014	1/1
170.00	1014	74295	76669	C0170.0F_1014	1/1
171.00	1014	71737	74181	C0171.0B_1014	1/1
172.00	1014	69248	71620	C0172.0F_1014	1/1
173.00	1014	66707	69058	C0173.0B_1014_1	1/2
173.00				C0173.0B_1014_2	2/2
174.00	1010	66472	67186	C0174.0B_1010	1/1
175.00	1010	72810	73091	C0175.0B_1010_1	1/1
175.01	1019	70656	71286	C0175.0B_1019_1	1/1
176.00	1010	67370	67911	C0176.0F_1010	1/1
177.00	1010	68064	68665	C0177.0B_1010	1/1
178.00	1010	68809	69284	C0178.0F_1010	1/1
179.00	1010	69429	69946	C0179.0B_1010	1/1
180.00	1010	70078	70479	C0180.0F_1010	1/1
181.00	1010	70601	71046	C0181.0B_1010	1/1
182.00	1010	71158	71495	C0182.0F_1010	1/1
183.00	1010	71637	72006	C0183.0B_1010	1/1
184.00	1010	72111	72387	C0184.0F_1010	1/1
185.00	1019	72210	72481	C0185.0B_1019_2	1/1
186.00	1019	71840	72060	C0186.0F_1019	1/1
201.00	1040	60135	61655	T0201.0B_1040	1/1
202.00	1034	43816	43960	T0202.0B_1034	1/1
203.00	1034	45364	46205	T0203.0B_1034_1	1/1
204.00	1036	46031	46555	T0204.0B_1036	1/1
205.00	1036	45663	45869	T0205.0B_1036	1/1
206.00	1036	45020	45477	T0206.0B_1036	1/1
207.00	2019	62181	63975	T0207.0F_2019	1/1
208.00	1036	50251	50332	T0208.0B_1036	1/1
209.00	1036	49937	50063	T0209.0B_1036	1/1
210.00	1036	49674	49746	T0210.0B_1036	1/1
211.00	1036	49008	49521	T0211.0B_1036	1/1
212.00	1039	47226	47534	T0212.0B_1039_2	1/1
213.00	1039	46606	47025	T0213.0B_1039	1/1
1001.00	1028	67298	67410	T1001.0B_1028	1/2
1001.00				T1001.0F_1028_1	2/2
1002.00	1028	67554	67676	T1002.0B_1028	1/1
1003.00	1028	68016	68121	T1003.0F_1028	1/1
1004.00	1040	62237	62349	T1004.0B_1040	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1005.00	1040	61905	62066	T1005.0F_1040	1/1
1006.00	1040	62847	63030	T1006.0B_1040_1	1/1
1007.00	1040	62459	62692	T1007.0F_1040	1/1
1008.00	1040	63650	63907	T1008.0B_1040_1	1/1
1009.00	1040	63161	63485	T1009.0F_1040	1/1
1010.00	1040	64611	64937	T1010.0B_1040_1	1/1
1011.00	1040	64062	64453	T1011.0F_1040	1/1
1012.00	1040	65683	66086	T1012.0B_1040_1	1/1
1013.00	1040	65072	65535	T1013.0F_1040	1/1
1014.00	1040	66932	67433	T1014.0B_1040_1	1/1
1015.00	1040	66219	66750	T1015.0F_1040	1/1
1016.00	1040	68322	68871	T1016.0B_1040_1	1/1
1017.00	1040	67549	68183	T1017.0F_1040	1/1
1018.00	1040	69775	70446	T1018.0B_1040_1	1/1
1019.00	1040	68964	69633	T1019.0F_1040	1/1
1020.00	1040	71522	72226	T1020.0B_1040_1	1/1
1021.00	1040	70543	71339	T1021.0F_1040_1	1/1
1022.00	1040	73376	74138	T1022.0B_1040_1	1/1
1023.00	1040	72355	73200	T1023.0F_1040	1/1
1024.00	1040	75342	76177	T1024.0B_1040_1	1/1
1025.00	1040	74266	75204	T1025.0F_1040	1/1
1026.00	1040	77458	78351	T1026.0B_1040_1	1/1
1027.00	1040	76342	77340	T1027.0F_1040	1/1
1028.00	1041	47019	48012	T1028.0B_1041	1/1
1029.00	1041	45886	46882	T1029.0F_1041	1/1
1030.00	1041	49328	50261	T1030.0B_1041_1	1/1
1030.01	1042	66069	66300	T1030.0B_1042	1/1
1031.00	1041	48129	49196	T1031.0F_1041	1/1
1032.00	1042	68038	69540	T1032.0B_1042_1	1/1
1033.00	1042	66461	67850	T1033.0F_1042	1/1
1034.00	1042	71417	72964	T1034.0B_1042_1	1/1
1035.00	1042	69686	71260	T1035.0F_1042	1/1
1036.00	1042	74957	76613	T1036.0B_1042_1	1/1
1037.00	1042	73116	74811	T1037.0F_1042	1/1
1038.00	1042	78775	80492	T1038.0B_1042_1	1/1
1039.00	1042	76765	78592	T1039.0F_1042	1/1
1040.00	1043	46531	47997	T1040.0B_1043	1/1
1041.00	1043	44925	46352	T1041.0F_1043	1/1
1042.00	1043	49753	51245	T1042.0B_1043	1/1
1043.00	1043	48134	49642	T1043.0F_1043	1/1
1044.00	1043	53056	54689	T1044.0B_1043	1/1
1045.00	1040	78444	80059	T1045.0F_1040	1/1
1046.00	1028	65009	67060	T1046.0B_1028_1	1/1
1047.00	1043	51362	52930	T1047.0F_1043	1/1
1048.00	1043	56517	58118	T1048.0B_1043	1/1
1049.00	1043	54816	56375	T1049.0F_1043	1/1
1050.00	1043	59960	61582	T1050.0B_1043_1	1/1
1051.00	1043	58224	59807	T1051.0F_1043	1/1
1052.00	1043	68919	70544	T1052.0B_1043	1/1
1053.00	1043	70682	72363	T1053.0F_1043	1/1
1054.00	1043	72504	74122	T1054.0B_1043	1/1
1055.00	1043	74323	75641	T1055.0F_1043	1/1
1055.01	1044	58394	58810	T1055.0F_1044	1/1
1056.00	1043	75771	77047	T1056.0B_1043	1/1
1056.01	1044	57815	58237	T1056.0B_1044	1/1
1057.00	1043	77218	78910	T1057.0F_1043	1/1
1058.00	1043	79044	80603	T1058.0B_1043	1/1
1059.00	1044	49002	50632	T1059.0F_1044	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1060.00	1044	50766	52386	T1060.0B_1044	1/1
1061.00	1044	52536	54187	T1061.0F_1044_1	1/1
1062.00	1044	54315	55912	T1062.0B_1044	1/1
1063.00	1044	56059	57714	T1063.0F_1044	1/1
1064.00	1044	58932	60495	T1064.0B_1044	1/1
1065.00	1044	67770	69420	T1065.0F_1044	1/2
1065.00				T1065.0F_1044_1	2/2
1066.00	1044	69552	71212	T1066.0B_1044	1/1
1067.00	1044	71374	73007	T1067.0F_1044	1/1
1068.00	1044	73129	74773	T1068.0B_1044	1/1
1069.00	1044	74906	76560	T1069.0F_1044	1/1
1070.00	1044	76732	78396	T1070.0B_1044	1/1
1071.00	1044	78543	80173	T1071.0F_1044	1/1
1072.00	2024	47638	49409	T1072.0B_2024	1/1
1073.00	2024	45925	47489	T1073.0F_2024	1/2
1073.00				T1073.0F_2024_1	2/2
1074.00	2024	51264	53111	T1074.0B_2024_1	1/1
1075.00	2024	49543	51103	T1075.0F_2024	1/1
1076.00	2024	54919	56767	T1076.0B_2024_1	1/1
1077.00	2024	53223	54798	T1077.0F_2024	1/1
1078.00	2024	58576	60323	T1078.0B_2024_1	1/1
1079.00	2024	56882	58460	T1079.0F_2024	1/1
1080.00	2024	68849	71142	T1080.0B_2024_1	1/1
1081.00	2024	71245	73080	T1081.0F_2024	1/1
1082.00	2024	73211	75254	T1082.0B_2024_1	1/1
1083.00	2024	75879	77787	T1083.0F_2024	1/1
1084.00	2024	77995	79956	T1084.0B_2024	1/1
1085.00	2024	80130	81783	T1085.0F_2024	1/1
1086.00	1045	48979	50729	T1086.0B_1045	1/1
1087.00	1045	47303	48831	T1087.0F_1045	1/1
1088.00	1045	52548	54279	T1088.0B_1045_1	1/1
1089.00	1045	50839	52405	T1089.0F_1045	1/1
1090.00	1045	56062	57778	T1090.0B_1045_1	1/1
1091.00	1045	54379	55921	T1091.0F_1045	1/1
1092.00	1047	74354	75939	T1092.0B_1047	1/1
1093.00	1045	57879	59424	T1093.0F_1045	1/1
1094.00	1046	74146	75807	T1094.0B_1046	1/1
1095.00	1046	75981	77679	T1095.0F_1046	1/1
1096.00	1046	77808	79481	T1096.0B_1046	1/1
1097.00	1047	76094	77817	T1097.0F_1047	1/1
1098.00	1047	77934	79589	T1098.0B_1047	1/1
1099.00	1048	45365	46996	T1099.0F_1048	1/2
1099.00				T1099.0F_1048_1	2/2
1100.00	1048	47141	48827	T1100.0B_1048	1/1
1101.00	1048	48960	50594	T1101.0F_1048	1/1
1102.00	1048	50731	52461	T1102.0B_1048	1/1
1103.00	1048	52573	54191	T1103.0F_1048	1/1
1104.00	1048	54323	56001	T1104.0B_1048	1/1
1105.00	1048	56120	57753	T1105.0F_1048	1/1
1106.00	1048	57877	59574	T1106.0B_1048	1/1
1107.00	1048	59689	61404	T1107.0F_1048	1/1
1108.00	1048	67196	68934	T1108.0B_1048	1/2
1108.00				T1108.0B_1048_1	2/2
1109.00	1048	69062	70705	T1109.0F_1048	1/1
1110.00	1048	70875	72599	T1110.0B_1048	1/1
1111.00	1048	72732	74342	T1111.0F_1048	1/1
1112.00	1048	74472	76250	T1112.0B_1048	1/1
1113.00	1048	76388	77940	T1113.0F_1048	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1114.00	1048	78146	79898	T1114.0B_1048	1/1
1115.00	1027	75777	77550	T1115.0F_1027	1/1
1116.00	1027	77697	79928	T1116.0B_1027	1/1
1117.00	1001	53856	55728	T1117.0F_1001	1/1
1118.00	1027	73758	75659	T1118.0B_1027	1/1
1119.00	1027	71958	73555	T1119.0F_1027	1/1
1120.00	1001	56019	57784	T1120.0B_1001	1/1
1121.00	1001	57984	59809	T1121.0F_1001	1/1
1122.00	1001	59977	61638	T1122.0B_1001	1/1
1123.00	1001	61835	63652	T1123.0F_1001	1/1
1124.00	1001	63903	65617	T1124.0B_1001	1/1
1125.00	1001	66808	68703	T1125.0F_1001	1/1
1126.00	1001	68882	70623	T1126.0B_1001	1/1
1127.00	1001	70846	72750	T1127.0F_1001	1/1
1128.00	1002	54219	55931	T1128.0B_1002	1/1
1129.00	1002	52341	54084	T1129.0F_1002_1	1/2
1129.00				T1129.0F_1002_2	2/2
1130.00	1002	58036	59732	T1130.0B_1002_1	1/1
1131.00	1002	56131	57904	T1131.0F_1002_1	1/1
1132.00	1002	61859	63562	T1132.0B_1002_1	1/1
1133.00	1002	59925	61728	T1133.0F_1002_1	1/1
1134.00	1002	65696	67431	T1134.0B_1002_1	1/1
1135.00	1002	63752	65571	T1135.0F_1002_1	1/1
1136.00	1003	57407	59134	T1136.0B_1003	1/1
1137.00	1002	67634	69570	T1137.0F_1002	1/1
1138.00	1003	61058	62784	T1138.0B_1003_1	1/1
1139.00	1003	55622	57221	T1139.0F_1003	1/1
1140.00	1003	64649	66379	T1140.0B_1003_2	1/1
1141.00	1003	59268	60857	T1141.0F_1003	1/1
1142.00	1003	68239	69973	T1142.0B_1003_2	1/1
1143.00	1003	62941	64493	T1143.0F_1003	1/1
1144.00	1004	54242	55869	T1144.0B_1004	1/1
1145.00	1003	66505	68047	T1145.0F_1003	1/1
1146.00	1004	58027	59685	T1146.0B_1004_1	1/1
1147.00	1003	70098	71622	T1147.0F_1003	1/1
1148.00	1004	59901	61680	T1148.0F_1004_2	1/1
1149.00	1004	52321	54024	T1149.0F_1004	1/1
1150.00	1004	61891	63519	T1150.0B_1004_1	1/1
1151.00	1004	56081	57854	T1151.0F_1004	1/1
1152.00	1004	65678	67301	T1152.0B_1004_1	1/1
1153.00	1004	63693	65509	T1153.0F_1004	1/1
1154.00	1005	74201	75822	T1154.0B_1005	1/1
1155.00	1004	67556	69334	T1155.0F_1004	1/1
1156.00	1005	77837	79449	T1156.0B_1005_1	1/1
1157.00	1005	72330	74068	T1157.0F_1005	1/1
1158.00	1005	81504	83103	T1158.0B_1005_2	1/1
1159.00	1005	76011	77726	T1159.0F_1005	1/1
1160.00	1006	46462	48191	T1160.0B_1006	1/1
1161.00	1005	79650	81385	T1161.0F_1005	1/1
1162.00	1006	55177	56861	T1162.0B_1006_1	1/1
1163.00	1005	83287	85011	T1163.0F_1005	1/1
1164.00	1006	58767	60435	T1164.0B_1006_2	1/1
1165.00	1006	44706	46311	T1165.0F_1006	1/1
1166.00	1006	62310	64028	T1166.0B_1006_3	1/1
1167.00	1006	48317	49688	T1167.0F_1006	1/1
1167.01	1006	54668	55017	T1167.0F_1006_1	1/1
1168.00	1007	46951	48641	T1168.0B_1007	1/1
1169.00	1006	56961	58602	T1169.0F_1006	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1170.00	1007	50608	52263	T1170.0B_1007_1	1/1
1171.00	1006	60540	62138	T1171.0F_1006	1/1
1172.00	1007	54162	55834	T1172.0B_1007_2	1/1
1173.00	1007	45208	46826	T1173.0F_1007	1/2
1173.00				T1173.0F_1007_1	2/2
1174.00	1007	57719	59397	T1174.0B_1007_3	1/1
1175.00	1007	48808	50480	T1175.0F_1007	1/1
1176.00	1007	61281	62983	T1176.0B_1007_3	1/1
1177.00	1007	52406	54041	T1177.0F_1007	1/1
1178.00	1008	46433	48448	T1178.0B_1008	1/1
1179.00	1007	55989	57604	T1179.0F_1007	1/1
1180.00	1008	50335	52281	T1180.0B_1008_1	1/1
1181.00	1007	59547	61162	T1181.0F_1007	1/1
1182.00	1008	54109	56031	T1182.0B_1008_2	1/1
1183.00	1008	44710	46268	T1183.0F_1008	1/1
1184.00	1008	57917	59850	T1184.0B_1008_3	1/1
1185.00	1008	48536	50155	T1185.0F_1008	1/1
1186.00	1008	61690	63602	T1186.0B_1008_3	1/1
1187.00	1008	52368	53946	T1187.0F_1008	1/1
1188.00	1009	46305	48009	T1188.0B_1009	1/1
1189.00	1008	56144	57764	T1189.0F_1008	1/1
1190.00	1009	49912	51582	T1190.0B_1009_1	1/1
1191.00	1008	59942	61535	T1191.0F_1008	1/1
1192.00	1009	53503	55150	T1192.0B_1009_2	1/1
1193.00	1009	44486	46149	T1193.0F_1009	1/1
1194.00	1009	57073	58703	T1194.0B_1009_3	1/1
1195.00	1009	48123	49777	T1195.0F_1009	1/1
1196.00	1011	49215	50938	T1196.0B_1011_1	1/1
1197.00	1009	51695	53353	T1197.0F_1009	1/1
1198.00	1011	52814	54544	T1198.0B_1011_2	1/1
1199.00	1009	55269	56950	T1199.0F_1009	1/1
1200.00	1011	56435	58149	T1200.0B_1011_3	1/1
1201.00	1009	58787	60482	T1201.0F_1009	1/1
1202.00	1011	45645	47382	T1202.0B_1011	1/1
1203.00	1007	82585	84116	T1203.0F_1007	1/1
1204.00	1007	80714	82466	T1204.0B_1007	1/1
1205.00	1007	78965	80576	T1205.0F_1007	1/1
1206.00	1007	77030	78827	T1206.0B_1007	1/1
1207.00	1007	75293	76866	T1207.0F_1007	1/1
1208.00	1007	73324	75124	T1208.0B_1007	1/1
1209.00	1007	71554	73179	No video available	1/1
1210.00	1007	69596	71402	No video available	1/1
1211.00	1011	47474	49110	T1211.0F_1011	1/1
1212.00	1006	81894	83578	T1212.0B_1006	1/1
1213.00	1006	80076	81766	T1213.0F_1006	1/1
1214.00	1006	78240	79894	T1214.0B_1006	1/1
1215.00	1006	76380	78081	T1215.0F_1006	1/1
1216.00	1006	74539	76203	T1216.0B_1006	1/1
1217.00	1011	51048	52696	T1217.0F_1011	1/1
1218.00	1006	50183	51818	T1218.0B_1006	1/1
1219.00	1006	72684	74365	T1219.0F_1006	1/1
1220.00	1006	70901	72522	T1220.0B_1006	1/1
1221.00	1011	54663	56307	T1221.0F_1011	1/1
1222.00	1022	50641	52289	T1222.0B_1022	1/1
1223.00	1025	43541	45273	T1223.0F_1025	1/1
1224.00	1025	45401	47049	T1224.0B_1025	1/1
1225.00	1025	47172	48921	T1225.0F_1025	1/1
1226.00	1025	49069	50716	T1226.0B_1025	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1227.00	1025	50843	52585	T1227.0F_1025	1/1
1228.00	1025	52715	54354	T1228.0B_1025	1/1
1229.00	1025	54485	56208	T1229.0F_1025	1/1
1230.00	1025	56343	57997	T1230.0B_1025	1/1
1231.00	1025	58136	59823	T1231.0F_1025	1/1
1232.00	1025	59950	61604	T1232.0B_1025	1/1
1233.00	1025	61749	63390	T1233.0F_1025	1/1
1234.00	1026	46287	47940	T1234.0B_1026	1/1
1235.00	1026	44479	46159	T1235.0F_1026	1/1
1236.00	1026	49910	51588	T1236.0B_1026_1	1/1
1237.00	1026	48108	49786	T1237.0F_1026	1/1
1238.00	1026	53550	55224	T1238.0B_1026_1	1/1
1239.00	1026	51739	53417	T1239.0F_1026	1/1
1240.00	1026	57203	58856	T1240.0B_1026_1	1/1
1241.00	1026	55399	57075	T1241.0F_1026	1/1
1242.00	1027	54288	56034	T1242.0B_1027	1/1
1243.00	1026	59046	60713	T1243.0F_1026	1/1
1244.00	1027	57814	59562	T1244.0B_1027_1	1/1
1245.00	1027	48438	50051	T1245.0F_1027	1/1
1246.00	1027	61329	63066	T1246.0B_1027_2	1/1
1247.00	1027	52607	54169	T1247.0F_1027	1/1
1248.00	1027	69336	71044	T1248.0B_1027_2	1/1
1248.01	1029	43512	43779	T1248.0B_1029	1/1
1249.00	1027	56118	57691	T1249.0F_1027	1/1
1250.00	1028	45546	47296	T1250.0B_1028	1/1
1251.00	1027	59654	61225	T1251.0F_1027	1/1
1252.00	1028	49168	50917	T1252.0B_1028_1	1/1
1253.00	1028	43809	45423	T1253.0F_1028	1/1
1254.00	1028	52762	54482	T1254.0B_1028_1	1/1
1255.00	1028	47439	49032	T1255.0F_1028	1/1
1256.00	1028	56312	58015	T1256.0B_1028_1	1/1
1257.00	1028	51022	52642	T1257.0F_1028	1/1
1258.00	1029	47225	49024	T1258.0B_1029_1	1/1
1259.00	1028	54588	56188	T1259.0F_1028	1/1
1260.00	1029	50806	52593	T1260.0B_1029_5	1/1
1261.00	1028	58105	59646	T1261.0F_1028	1/1
1262.00	1028	70522	72039	T1262.0B_1028	1/1
1262.01	1029	45651	46337	T1262.0B_1029_1	1/1
1263.00	1028	69145	70428	T1263.0F_1028	1/1
1263.01	1029	46499	47086	T1263.0F_1029	1/1
1264.00	1028	74712	77050	T1264.0B_1028_1	1/1
1265.00	1028	72723	74582	T1265.0F_1028	1/1
1266.00	1028	79218	81513	T1266.0B_1028_1	1/1
1267.00	1028	77166	79007	T1267.0F_1028	1/1
1268.00	1029	54433	56220	T1268.0B_1029_3	1/1
1269.00	1029	43912	45530	T1269.0F_1029	1/1
1270.00	1029	58035	59810	T1270.0B_1029	1/1
1271.00	1029	49125	50708	T1271.0F_1029	1/1
1272.00	1029	61606	63399	T1272.0B_1029_1	1/1
1273.00	1029	52702	54322	T1273.0F_1029	1/1
1274.00	1029	68237	70159	T1274.0B_1029_1	1/1
1275.00	1029	56295	57929	T1275.0F_1029	1/1
1276.00	1029	72269	74228	T1276.0B_1029	1/1
1277.00	1029	59898	61490	T1277.0F_1029	1/1
1278.00	1029	74336	76192	T1278.0F_1029	1/1
1279.00	1029	70319	72119	T1279.0F_1029	1/1
1280.00	1029	76418	78337	T1280.0B_1029	1/1
1281.00	1030	44356	45945	T1281.0F_1030	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1282.00	1030	46113	47958	T1282.0B_1030	1/1
1283.00	1029	78481	80354	T1283.0F_1029	1/1
1284.00	1030	49841	51727	T1284.0B_1030_1	1/1
1285.00	1030	48071	49693	T1285.0F_1030	1/1
1286.00	1030	53569	55496	T1286.0B_1030_1	1/1
1287.00	1030	51833	53440	T1287.0F_1030	1/1
1288.00	1030	57282	59227	T1288.0B_1030	1/1
1289.00	1030	55592	57144	T1289.0F_1030	1/1
1290.00	1031	46845	48634	T1290.0B_1031	1/1
1291.00	1030	59327	60848	T1291.0F_1030	1/1
1292.00	1031	50541	52326	T1292.0B_1031_1	1/1
1293.00	1031	45088	46727	T1293.0F_1031	1/1
1294.00	1031	54224	55983	T1294.0B_1031_1	1/1
1295.00	1031	48756	50413	T1295.0F_1031	1/1
1296.00	1031	57935	59721	T1296.0B_1031	1/1
1297.00	1031	52435	54094	T1297.0F_1031	1/1
1298.00	1031	65467	67410	T1298.0B_1031	1/1
1299.00	1031	56109	57818	T1299.0F_1031	1/1
1300.00	1031	69359	71279	T1300.0B_1031	1/1
1301.00	1031	67545	69214	T1301.0F_1031	1/1
1302.00	1031	73279	75184	T1302.0B_1031_1	1/1
1303.00	1031	71393	73091	T1303.0F_1031	1/1
1304.00	1031	77205	79149	T1304.0B_1031	1/1
1305.00	1031	75412	77089	T1305.0F_1031	1/1
1306.00	1032	45250	47070	T1306.0B_1032	1/1
1307.00	1031	79259	80977	T1307.0F_1031	1/1
1308.00	1032	48949	50738	T1308.0B_1032_1	1/1
1309.00	1032	43475	45135	T1309.0F_1032	1/1
1310.00	1032	52620	54387	T1310.0B_1032_1	1/1
1311.00	1032	47178	48833	T1311.0F_1032	1/1
1312.00	1032	56334	58085	T1312.0B_1032_1	1/1
1313.00	1032	50839	52512	T1313.0F_1032	1/1
1314.00	1032	59952	61712	T1314.0B_1032_1	1/1
1315.00	1032	54497	56222	T1315.0F_1032	1/1
1316.00	1032	69590	71474	T1316.0B_1032_2	1/1
1317.00	1032	58190	59850	T1317.0F_1032	1/1
1318.00	1033	56121	57952	T1318.0B_1033	1/1
1319.00	1032	61823	63447	T1319.0F_1032	1/1
1320.00	1033	59807	61663	T1320.0B_1033_1	1/1
1321.00	1032	71580	73181	T1321.0F_1032	1/1
1322.00	1032	73388	75251	T1322.0B_1032	1/1
1323.00	1032	75398	77034	T1323.0F_1032	1/1
1324.00	1032	77167	78265	T1324.0B_1032	1/1
1324.01	1033	53393	54207	T1324.0B_1033	1/1
1325.00	1033	54353	56004	T1325.0F_1033	1/1
1326.00	1033	63549	65396	T1326.0B_1033_2	1/1
1327.00	1033	58046	59690	T1327.0F_1033	1/1
1328.00	1033	72291	74313	T1328.0B_1033_2	1/1
1329.00	1033	61770	63396	T1329.0F_1033	1/1
1330.00	1035	66241	68191	T1330.0B_1035	1/1
1331.00	1033	65535	67165	T1331.0F_1033	1/1
1332.00	1036	46782	48574	T1332.0B_1036	1/1
1333.00	1033	74441	76253	T1333.0F_1033	1/1
1334.00	1033	76396	78457	T1334.0B_1033	1/1
1335.00	1006	52210	53911	T1335.0F_1006	1/1
1336.00	1036	52757	54527	T1336.0B_1036	1/1
1337.00	1033	78560	80432	T1337.0F_1033	1/1
1338.00	1036	56429	58216	T1338.0B_1036_3	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1339.00	1035	68283	69921	T1339.0F_1035	1/1
1340.00	1035	70119	72087	T1340.0B_1035	1/1
1341.00	1035	72213	73795	T1341.0F_1035	1/1
1342.00	1035	73943	75898	T1342.0B_1035	1/1
1343.00	1035	75999	77586	T1343.0F_1035	1/1
1344.00	1035	77751	79687	T1344.0B_1035	1/1
1345.00	1035	79828	81440	T1345.0F_1035	1/1
1346.00	1036	60198	61979	T1346.0B_1036_2	1/1
1347.00	1036	50982	52652	T1347.0F_1036	1/1
1348.00	1036	69113	70917	T1348.0B_1036_3	1/1
1349.00	1036	54655	56315	T1349.0F_1036	1/1
1350.00	1036	72974	74452	T1350.0B_1036_3	1/1
1350.01	1039	48093	48577	T1350.0B_1039	1/1
1351.00	1036	58333	60051	T1351.0F_1036	1/1
1352.00	1036	76129	78012	T1352.0B_1036_2	1/1
1353.00	1036	62100	63704	T1353.0F_1036	1/1
1354.00	1036	79980	81813	T1354.0B_1036_2	1/1
1355.00	1036	71081	72798	T1355.0F_1036	1/1
1356.00	2027	63048	65126	T1356.0B_2027	1/1
1356.01	1045	44580	46415	T1356.0B_1045	1/1
1357.00	1036	74612	75984	T1357.0F_1036	1/1
1357.01	1039	48712	49114	T1357.0F_1039	1/1
1358.00	1027	68498	68783	T1358.0B_1027	1/1
1358.01	2025	62430	64140	T1358.0B_2025	1/1
1359.00	1036	78130	79845	T1359.0F_1036	1/1
1360.00	1027	50444	52249	T1360.0B_1027	1/1
1361.00	1025	78301	80149	T1361.0F_1025	1/1
1362.00	1025	76443	78167	T1362.0B_1025_1	1/1
1363.00	1025	74415	76248	T1363.0F_1025	1/1
1364.00	1025	72546	74276	T1364.0B_1025	1/1
1365.00	1025	70583	72413	T1365.0F_1025	1/1
1366.00	1025	68673	70444	T1366.0B_1025	1/1
1367.00	1024	58943	60611	T1367.0F_1024	1/1
1368.00	1025	80259	81991	T1368.0B_1025	1/1
1369.00	1024	55047	56762	T1369.0F_1024	1/1
1370.00	1024	60783	62765	T1370.0B_1024_2	1/1
1371.00	1024	51213	52841	T1371.0F_1024	1/1
1372.00	1024	56912	58830	T1372.0B_1024_2	1/1
1373.00	1024	47344	49018	T1373.0F_1024	1/1
1374.00	1024	52987	54894	T1374.0B_1024_2	1/1
1375.00	1024	43508	45181	T1375.0F_1024	1/1
1376.00	1024	49185	51082	T1376.0B_1024_1	1/1
1377.00	1023	81399	83072	T1377.0F_1023	1/1
1378.00	1023	79173	81279	T1378.0B_1023	1/1
1379.00	1023	77143	79035	T1379.0F_1023	1/1
1380.00	1023	74734	76994	T1380.0B_1023	1/1
1381.00	1023	72643	74587	T1381.0F_1023_1	1/1
1382.00	1024	45328	47241	T1382.0B_1024	1/1
1383.00	1023	70197	72475	T1383.0B_1023	1/1
1384.00	1023	68066	70014	T1384.0F_1023_1	1/1
1385.00	1022	81873	83717	T1385.0F_1022	1/1
1386.00	1022	80000	81700	T1386.0B_1022	1/1
1387.00	1022	77923	79857	T1387.0F_1022	1/1
1388.00	1022	76058	77780	T1388.0B_1022	1/1
1389.00	1022	74004	75911	T1389.0F_1022	1/1
1390.00	1022	72071	73850	T1390.0B_1022	1/1
1391.00	1022	70043	71924	T1391.0F_1022	1/1
1392.00	1022	68129	69885	T1392.0B_1022_1	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1393.00	1022	60794	62586	T1393.0F_1022	1/1
1394.00	1022	58615	60318	T1394.0B_1022	1/1
1395.00	1022	56693	58500	T1395.0F_1022	1/1
1396.00	1022	54800	56556	T1396.0B_1022	1/1
1397.00	1022	52862	54673	T1397.0F_1022	1/1
1398.00	1022	46362	48119	T1398.0B_1022	1/2
1398.00				T1398.0B_1022_1	2/2
1399.00	1022	48260	50085	T1399.0F_1022	1/1
1400.00	1041	53563	55395	T1400.0B_1041	1/1
1401.00	1041	51652	53413	T1401.0F_1041	1/1
1402.00	1041	57455	59338	T1402.0B_1041_1	1/1
1403.00	1039	49821	51561	T1403.0F_1039	1/1
1404.00	1041	61376	63243	T1404.0B_1041_2	1/1
1405.00	1041	55517	57299	T1405.0F_1041	1/1
1406.00	2021	47439	49312	T1406.0B_2021	1/1
1407.00	1041	59442	61236	T1407.0F_1041	1/1
1408.00	2021	54282	56128	T1408.0B_2021	1/1
1409.00	1041	63345	65088	T1409.0F_1041	1/1
1410.00	2021	59155	61003	T1410.0B_2021	1/1
1411.00	2025	64352	66154	T1411.0F_2025	1/1
1412.00	2025	66304	68351	T1412.0B_2025	1/1
1413.00	2025	68479	70201	T1413.0F_2025	1/1
1414.00	2025	70323	72317	T1414.0B_2025	1/1
1415.00	2025	72460	74210	T1415.0F_2025	1/1
1416.00	2025	74325	76334	T1416.0B_2025	1/1
1417.00	2025	76456	78195	T1417.0F_2025	1/1
1418.00	2025	78311	80343	T1418.0B_2025	1/1
1419.00	2025	80479	81412	T1419.0F_2025	1/1
1419.01	2030	63426	64383	T1419.0F_2030	1/1
1420.00	2030	64504	66475	T1420.0B_2030	1/1
1421.00	2030	66604	68506	T1421.0F_2030	1/1
1422.00	2030	72558	74491	T1422.0B_2030	1/2
1422.00				T1422.0B_2030_1	2/2
1423.00	2030	74606	76516	T1423.0F_2030	1/1
1424.00	2030	76678	78646	T1424.0B_2030	1/1
1425.00	2030	78772	79756	T1425.0F_2030	1/1
1425.01	1049	44633	45547	T1425.0F_1049	1/1
1426.00	1049	45687	47828	T1426.0B_1049	1/1
1427.00	1049	47941	49739	T1427.0F_1049	1/1
1428.00	1049	49874	52004	T1428.0B_1049	1/1
1429.00	1049	52126	53906	T1429.0F_1049	1/1
1430.00	1049	54040	56153	T1430.0B_1049	1/1
1431.00	1049	56272	58020	T1431.0F_1049	1/1
1432.00	1049	58207	60400	T1432.0B_1049	1/1
1433.00	1049	60496	62231	T1433.0F_1049	1/1
1434.00	2031	67114	69431	T1434.0B_2031	1/1
1435.00	2031	69570	71346	T1435.0F_2031	1/1
1436.00	2030	55019	56984	T1436.0B_2030	1/1
1437.00	2030	57105	59070	T1437.0F_2030_1	1/1
1438.00	2030	50834	52819	T1438.0B_2030	1/1
1439.00	2030	52951	54908	T1439.0F_2030_1	1/1
1440.00	2030	46511	48561	T1440.0B_2030	1/1
1441.00	2030	48693	50679	T1441.0F_2030_1	1/1
1442.00	2029	79508	81441	Video Unavailable	N/A
1443.00	2030	44335	46343	T1443.0F_2030	1/2
1443.00				T1443.0F_2030_1	2/2
1444.00	2029	75116	77118	Video Unavailable	N/A
1445.00	2029	77263	79387	Video Unavailable	N/A

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1446.00	2027	57533	59668	T1446.0B_2027	1/1
1447.00	2028	75107	76334	T1447.0F_2028	1/1
1447.01	2029	73937	74991	Video Unavailable	N/A
1448.00	2027	52446	54613	T1448.0B_2027	1/1
1449.00	1038	79328	80558	T1449.0F_1038	1/1
1449.01	2031	66147	66964	T1449.0F_2031	1/1
1450.00	1038	77028	79212	T1450.0B_1038	1/1
1451.00	1038	74823	76908	T1451.0F_1038	1/1
1452.00	1038	72463	74706	T1452.0B_1038	1/1
1453.00	1038	70222	72350	T1453.0F_1038	1/1
1454.00	1038	67868	70110	T1454.0B_1038	1/1
1455.00	1038	65565	67676	T1455.0F_1038	1/2
1455.00				T1455.0F_1038_1	2/2
1456.00	1038	55431	57608	T1456.0B_1038	1/1
1457.00	1038	57727	59828	T1457.0F_1038	1/1
1458.00	1038	50745	52958	T1458.0B_1038	1/1
1459.00	1038	53103	55256	T1459.0F_1038_1	1/1
1460.00	1038	46057	48363	T1460.0B_1038	1/1
1461.00	1038	48506	50631	T1461.0F_1038	1/1
1462.00	1037	78122	80318	T1462.0B_1037	1/1
1463.00	1037	75665	77997	T1463.0F_1037	1/1
1464.00	1037	73401	75552	T1464.0B_1037	1/1
1465.00	1037	70950	73299	T1465.0F_1037	1/1
1466.00	1037	68626	70821	T1466.0B_1037	1/1
1467.00	1037	66149	68478	T1467.0F_1037	1/2
1467.00				T1467.0F_1037_1	2/2
1468.00	1037	57278	59501	T1468.0B_1037	1/1
1469.00	1037	54920	57137	T1469.0F_1037_1	1/1
1470.00	1037	52318	54697	T1470.0B_1037	1/1
1471.00	1037	49823	52168	T1471.0F_1037_1	1/1
1472.00	1037	47274	49686	T1472.0B_1037	1/2
1472.00				T1472.0B_1037_1	2/2
1473.00	2005	64664	66101	T1473.0F_2005	1/1
1473.01	2005	70966	71832	T1473.0F_2005_1	1/1
1474.00	2005	62010	64524	T1474.0B_2005	1/1
1475.00	2005	59682	61879	T1475.0F_2005	1/1
1476.00	2005	57047	59563	T1476.0B_2005	1/1
1477.00	2005	54696	56889	T1477.0F_2005	1/1
1478.00	2005	52038	54573	T1478.0B_2005	1/1
1479.00	2005	49684	51914	T1479.0F_2005	1/1
1480.00	1019	72685	74978	T1480.0B_1019	1/1
1481.00	1019	75197	77900	T1481.0F_1019	1/1
1482.00	1019	78091	80443	T1482.0B_1019	1/1
1483.00	1019	80674	83484	T1483.0F_1019	1/1
1484.00	2005	71959	74569	T1484.0B_2005	1/1
1485.00	2019	64175	66669	T1485.0F_2019	1/1
1486.00	2019	66787	69227	T1486.0B_2019	1/1
1487.00	2019	69369	71859	T1487.0F_2019	1/1
1488.00	2019	72002	74420	T1488.0B_2019	1/1
1489.00	2019	74543	77040	T1489.0F_2019	1/1
1490.00	2019	77197	78887	T1490.0B_2019	1/1
1490.01	2021	65269	66125	T1490.0B_2021	1/1
1491.00	2021	66264	68808	T1491.0F_2021	1/2
1491.00				T1491.0F_2021_1	2/2
1492.00	2016	69115	71753	T1492.0B_2016	1/2
1492.00				T1492.0B_2016_1	2/2
1493.00	2016	71872	74245	T1493.0F_2016	1/1
1494.00	2016	74414	77086	T1494.0B_2016	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1495.00	2016	77218	79551	T1495.0F_2016	1/1
1496.00	2016	79683	82371	T1496.0B_2016	1/1
1497.00	2018	50159	51802	T1497.0F_2018	1/1
1497.01	2021	50246	50630	T1497.0F_2021	1/1
1497.02	2021	53397	53796	T1497.0F_2021_1	1/1
1498.00	2018	47668	50006	T1498.0B_2018	1/1
1498.01	2021	49708	50114	T1498.0B_2021	1/1
1499.00	2005	80548	82877	T1499.0F_2005	1/1
1500.00	2005	77773	80405	T1500.0B_2005	1/2
1500.00				T1500.0B_2005_1	2/2
1501.00	2021	71569	74108	T1501.0F_2021_1	1/2
1501.00				T1501.0F_2021_2	2/2
1502.00	2021	68938	71449	T1502.0B_2021	1/2
1502.00				T1502.0B_2021_1	2/2
1503.00	2027	60093	62380	T1503.0F_2027	1/1
1504.00	2021	74229	76640	T1504.0B_2021	1/2
1504.00				T1504.0B_2021_1	2/2
1505.00	2027	54960	57241	T1505.0F_2027	1/1
1506.00	2027	47194	49729	T1506.0B_2027	1/1
1507.00	2027	49837	52155	T1507.0F_2027_1	1/1
1508.00	2026	55391	58085	T1508.0B_2026	1/2
1508.00				T1508.0B_2026_1	2/2
1509.00	2027	44806	47085	T1509.0F_2027	1/2
1509.00				T1509.0F_2027_1	2/2
1510.00	2026	50226	52854	T1510.0B_2026	1/2
1510.00				T1510.0B_2026_1	2/2
1511.00	2026	52965	55220	T1511.0F_2026_1	1/1
1512.00	2026	44973	47746	T1512.0B_2026	1/2
1512.00				T1512.0B_2026_1	2/2
1513.00	2026	47860	50125	T1513.0F_2026	1/2
1513.00				T1513.0F_2026_1	2/2
1514.00	2023	79311	81343	T1514.0B_2023	1/1
1514.01	2026	58845	59602	T1514.0B_2026	1/1
1515.00	2023	76886	79134	T1515.0F_2023	1/1
1516.00	2023	74112	76773	T1516.0B_2023	1/1
1517.00	2023	71665	73938	T1517.0F_2023	1/1
1518.00	2023	68877	71515	T1518.0B_2023	1/1
1519.00	2023	66437	68731	T1519.0F_2023	1/1
1520.00	2023	58076	60200	T1520.0B_2023	1/1
1520.01	2023	65813	66316	T1520.0B_2023_1	1/1
1521.00	2023	55723	57947	T1521.0F_2023	1/1
1522.00	2023	53042	55600	T1522.0B_2023	1/2
1522.00				T1522.0B_2023_1	2/2
1523.00	2023	50160	52365	T1523.0F_2023	1/2
1523.00				T1523.0F_2023_1	2/2
1524.00	2023	47426	50035	T1524.0B_2023	1/2
1524.00				T1524.0B_2023_1	2/2
1525.00	2023	45076	47279	T1525.0F_2023	1/2
1525.00				T1525.0F_2023_1	2/2
1526.00	2022	69825	72193	T1526.0B_2022	1/1
1527.00	2022	72314	74609	T1527.0F_2022_1	1/1
1527.01	2023	52726	52916	T1527.0F_2023	1/1
1528.00	2022	64779	67164	T1528.0B_2022	1/1
1529.00	2022	67280	69718	T1529.0F_2022_1	1/1
1530.00	2022	59802	62151	T1530.0B_2022	1/1
1531.00	2021	76821	79216	T1531.0F_2021	1/2
1531.00				T1531.0F_2021_1	2/2
1532.00	2017	79033	81667	T1532.0B_2017	1/2

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1532.00				T1532.0B_2017_1	2/2
1533.00	2022	62283	64681	T1533.0F_2022_1	1/1
1534.00	2017	74039	76571	T1534.0B_2017_1	1/2
1534.00				T1534.0B_2017_1	2/2
1535.00	2017	76693	78903	T1535.0F_2017_1	1/2
1535.00				T1535.0F_2017_2	2/2
1536.00	2017	68989	71604	T1536.0B_2017_1	1/2
1536.00				T1536.0B_2017_1	2/2
1537.00	2017	71738	73917	T1537.0F_2017_1	1/2
1537.00				T1537.0F_2017_2	2/2
1538.00	2017	58354	60747	T1538.0B_2017_1	1/2
1538.00				T1538.0B_2017_1	2/2
1539.00	2017	60870	62435	T1539.0F_2017_1	1/1
1539.01	2017	68298	68854	T1539.0F_2017_2	1/1
1540.00	2017	53609	55967	T1540.0B_2017_1	1/2
1540.00				T1540.0B_2017_1	2/2
1541.00	2017	56096	58217	T1541.0F_2017_1	1/2
1541.00				T1541.0F_2017_2	2/2
1542.00	2017	48820	51194	T1542.0B_2017_1	1/2
1542.00				T1542.0B_2017_1	2/2
1543.00	2017	51329	53473	T1543.0F_2017_1	1/2
1543.00				T1543.0F_2017_2	2/2
1544.00	2017	43965	46410	T1544.0B_2017_1	1/2
1544.00				T1544.0B_2017_1	2/2
1545.00	2017	46558	48684	T1545.0F_2017_1	1/2
1545.00				T1545.0F_2017_1	2/2
1546.00	2016	58829	61137	T1546.0B_2016_1	1/1
1547.00	2016	61259	63388	T1547.0F_2016_1	1/1
1548.00	2016	54154	56486	T1548.0B_2016_1	1/1
1549.00	2016	56618	58716	T1549.0F_2016_1	1/1
1550.00	2016	49445	51769	T1550.0B_2016_1	1/1
1551.00	2016	51883	54032	T1551.0F_2016_1	1/1
1552.00	2016	44634	47060	T1552.0B_2016_1	1/2
1552.00				T1552.0B_2016_1	2/2
1553.00	2016	47181	49306	T1553.0F_2016_1	1/1
1554.00	2005	46811	49258	T1554.0B_2005_1	1/1
1554.01	2031	74525	74798	T1554.0B_2031_1	1/1
1555.00	2022	57375	59677	T1555.0F_2022_1	1/2
1555.00				T1555.0F_2022_1	2/2
1556.00	2007	72496	74955	T1556.0B_2007_1	1/2
1556.00				T1556.0B_2007_1	2/2
1557.00	2007	75074	77252	T1557.0F_2007_1	1/1
1558.00	2007	77414	79886	T1558.0B_2007_1	1/1
1559.00	2007	80016	82137	T1559.0F_2007_1	1/1
1560.00	2014	44203	46456	T1560.0B_2014_1	1/1
1560.01	2031	73721	74173	T1560.0B_2031_1	1/1
1561.00	2014	50889	53070	T1561.0F_2014_1	1/1
1562.00	2014	53230	55391	T1562.0B_2014_1	1/1
1563.00	2014	55525	57701	T1563.0F_2014_1	1/1
1564.00	2014	57810	59942	T1564.0B_2014_1	1/1
1565.00	2014	60062	62247	T1565.0F_2014_1	1/1
1566.00	2014	62366	63568	T1566.0B_2014_1	1/1
1566.01	2014	67871	68841	T1566.0B_2014_1	1/1
1567.00	2014	68970	71238	T1567.0F_2014_1	1/1
1568.00	2014	71350	73431	T1568.0B_2014_1	1/1
1569.00	2014	73554	75750	T1569.0F_2014_1	1/1
1570.00	2014	75849	77874	T1570.0B_2014_1	1/1
1571.00	2014	77996	80143	T1571.0F_2014_1	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1572.00	2014	80254	81584	T1572.0B_2014	1/1
1572.01	2015	69731	70508	T1572.0B_2015	1/1
1573.00	2015	48003	50018	T1573.0F_2015	1/2
1573.00				T1573.0F_2015_1	2/2
1574.00	2015	45703	47872	T1574.0B_2015	1/2
1574.00				T1574.0B_2015_1	2/2
1575.00	2015	52320	54304	T1575.0F_2015_1	1/1
1576.00	2015	50130	52185	T1576.0B_2015	1/2
1576.00				T1576.0B_2015_1	2/2
1577.00	2015	56671	58597	T1577.0F_2015_1	1/2
1577.00				T1578.0B_2015	2/2
1578.00	2015	54444	56530	T1578.0B_2015_1	1/1
1579.00	2015	60884	62787	T1579.0F_2015_1	1/1
1580.00	2015	58732	60774	T1580.0B_2015	1/1
1581.00	2015	70607	72550	T1581.0F_2015_1	1/1
1582.00	2015	62932	64907	T1582.0B_2015	1/1
1583.00	2015	74761	76642	T1583.0F_2015_2	1/1
1584.00	2015	72674	74643	T1584.0B_2015	1/1
1585.00	2015	78842	80679	T1585.0F_2015_1	1/1
1586.00	2015	76781	78736	T1586.0B_2015	1/1
1587.00	2021	56685	58528	T1587.0F_2021	1/1
1588.00	2015	80826	82731	T1588.0B_2015	1/1
1589.00	2021	51059	52879	T1589.0F_2021_1	1/1
1590.00	2020	76851	78758	T1590.0B_2020	1/1
1591.00	2021	44923	46750	T1591.0F_2021	1/1
1592.00	2020	72717	74681	T1592.0B_2020	1/1
1593.00	2020	74836	76724	T1593.0F_2020_1	1/1
1594.00	2020	68556	70504	T1594.0B_2020	1/1
1595.00	2020	70676	72588	T1595.0F_2020_1	1/1
1596.00	2020	64422	66374	T1596.0B_2020	1/1
1597.00	2020	66517	68416	T1597.0F_2020	1/1
1598.00	2014	48761	50605	T1598.0B_2014	1/1
1599.00	2013	79487	81195	T1599.0F_2013	1/1
1600.00	2013	81315	82449	T1600.0B_2013_1	1/1
1600.01	2021	44002	44764	T1600.0B_2021	1/1
1601.00	2005	75124	75561	T1601.0F_2005	1/1
1601.01	2014	47242	48621	T1601.0F_2014	1/1
1602.00	2013	77540	79346	T1602.0B_2013	1/1
1603.00	2013	75724	77391	T1603.0F_2013	1/1
1604.00	2013	73777	75632	T1604.0B_2013	1/1
1605.00	2013	71963	73627	T1605.0F_2013	1/1
1606.00	2013	70050	71851	T1606.0B_2013	1/1
1607.00	2013	68265	69895	T1607.0F_2013	1/1
1608.00	2013	66326	68151	T1608.0B_2013	1/1
1609.00	2012	82070	83595	T1609.0F_2012	1/1
1610.00	2012	80128	81977	T1610.0B_2012	1/1
1611.00	2012	78440	79972	T1611.0F_2012	1/1
1612.00	2012	76536	78347	T1612.0B_2012	1/1
1613.00	2012	74897	76414	T1613.0F_2012	1/1
1614.00	2012	73028	74787	T1614.0B_2012	1/1
1615.00	2012	71412	72895	T1615.0F_2012	1/1
1616.00	2012	69519	71260	T1616.0B_2012	1/1
1617.00	2012	62557	64058	T1617.0F_2012_1	1/1
1618.00	2012	60781	62470	T1618.0B_2012	1/1
1619.00	2012	59144	60664	T1619.0F_2012	1/1
1620.00	2012	57398	59025	T1620.0B_2012	1/1
1621.00	2012	55787	57290	T1621.0F_2012	1/1
1622.00	2012	54059	55673	T1622.0B_2012	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1623.00	2012	52470	53953	T1623.0F_2012	1/1
1624.00	2012	50758	52348	T1624.0B_2012	1/1
1625.00	2012	49149	50634	T1625.0F_2012	1/1
1626.00	2012	47424	49013	T1626.0B_2012_1	1/1
1627.00	2012	45810	47314	T1627.0F_2012	1/1
1628.00	2012	44126	45678	T1628.0B_2012	1/1
1628.01	2031	72007	72349	T1628.0B_2031	1/1
1629.00	2011	83665	84660	T1629.0F_2011	1/1
1629.01	2012	68857	69378	T1629.0F_2012	1/1
1630.00	2011	81967	83512	T1630.0B_2011	1/1
1631.00	2011	80364	81843	T1631.0F_2011	1/1
1632.00	2011	78570	80216	T1632.0B_2011	1/1
1633.00	2011	76865	78339	T1633.0F_2011	1/1
1634.00	2011	68071	69866	T1634.0B_2011	1/1
1635.00	2011	69982	71406	T1635.0F_2011_2	1/1
1636.00	2011	64655	66365	T1636.0B_2011	1/1
1637.00	2011	66468	67928	T1637.0F_2011_1	1/1
1638.00	2011	61283	63019	T1638.0B_2011	1/1
1639.00	2011	63125	64508	T1639.0F_2011_1	1/1
1640.00	2011	57989	59655	T1640.0B_2011	1/1
1641.00	2011	59765	61159	T1641.0F_2011_1	1/1
1642.00	2011	54532	56202	T1642.0B_2011	1/1
1643.00	2011	56331	57858	T1643.0F_2011	1/1
1644.00	2010	73121	74643	T1644.0B_2010	1/1
1645.00	2010	74763	76164	T1645.0F_2010	1/1
1646.00	2010	69935	71490	T1646.0B_2010	1/1
1647.00	2010	71599	72968	T1647.0F_2010_1	1/1
1648.00	2010	66843	68364	T1648.0B_2010	1/1
1649.00	2010	68470	69811	T1649.0F_2010	1/1
1650.00	2010	58863	59340	T1650.0B_2010	1/1
1650.01	2010	64159	65258	T1650.0B_2010_1	1/1
1651.00	2010	65397	66720	T1651.0F_2010_1	1/1
1652.00	2010	55856	57308	T1652.0B_2010	1/1
1653.00	2010	57423	58757	T1653.0F_2010_1	1/1
1654.00	2010	52775	54221	T1654.0B_2010	1/1
1655.00	2010	54365	55750	T1655.0F_2010_1	1/1
1656.00	2010	49684	51183	T1656.0B_2010	1/1
1657.00	2010	51317	52682	T1657.0F_2010	1/1
1658.00	2010	46590	48104	T1658.0B_2010	1/1
1659.00	2010	48212	49566	T1659.0F_2010	1/1
1660.00	2010	43486	45002	T1660.0B_2010	1/1
1661.00	2010	45115	46460	T1661.0F_2010	1/1
1662.00	2009	80370	81853	T1662.0B_2009	1/1
1663.00	2009	81952	83273	T1663.0F_2009_1	1/1
1664.00	2009	77279	78819	T1664.0B_2009	1/1
1665.00	2009	78946	80253	T1665.0F_2009_2	1/1
1666.00	2009	68871	70336	T1666.0B_2009	1/1
1667.00	2009	75848	77134	T1667.0F_2009_1	1/1
1668.00	2009	65852	67313	T1668.0B_2009	1/1
1669.00	2009	67450	68760	T1669.0F_2009	1/1
1670.00	2009	62928	64325	T1670.0B_2009	1/1
1671.00	2009	64443	65691	T1671.0F_2009_1	1/1
1672.00	2009	60026	61424	T1672.0B_2009	1/1
1673.00	2009	61537	62789	T1673.0F_2009_1	1/1
1674.00	2009	57096	58488	T1674.0B_2009	1/1
1675.00	2009	58629	59885	T1675.0F_2009_1	1/1
1676.00	2009	54213	55615	T1676.0B_2009	1/1
1677.00	2009	55737	56983	T1677.0F_2009	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1678.00	2008	61127	62901	T1678.0B_2008	1/1
1679.00	2008	63028	64297	T1679.0F_2008_1	1/1
1680.00	2008	57914	59633	T1680.0B_2008	1/1
1681.00	2008	59736	61002	T1681.0F_2008_1	1/1
1682.00	2008	54931	56459	T1682.0B_2008	1/1
1683.00	2008	56574	57798	T1683.0F_2008_1	1/1
1684.00	2008	52139	53583	T1684.0B_2008	1/1
1685.00	2008	53687	54822	T1685.0F_2008_1	1/1
1686.00	2008	49342	50757	T1686.0B_2008	1/1
1687.00	2008	50857	52005	T1687.0F_2008_1	1/1
1688.00	2008	46592	47976	T1688.0B_2008	1/1
1689.00	2008	48075	49229	T1689.0F_2008_1	1/1
1690.00	2008	43816	45244	T1690.0B_2008	1/1
1691.00	2008	45354	46480	T1691.0F_2008	1/1
1692.00	2007	64492	65862	T1692.0B_2007	1/1
1693.00	2007	65987	67119	T1693.0F_2007_1	1/1
1694.00	2007	61801	63142	T1694.0B_2007	1/1
1695.00	2007	63272	64379	T1695.0F_2007_2	1/1
1696.00	2007	59093	60438	T1696.0B_2007	1/1
1697.00	2007	60554	61667	T1697.0F_2007_1	1/1
1698.00	2007	56391	57736	T1698.0B_2007	1/1
1699.00	2007	57849	58952	T1699.0F_2007_1	1/1
1700.00	2007	53714	55018	T1700.0B_2007	1/1
1701.00	2007	55144	56270	T1701.0F_2007_1	1/1
1702.00	2007	51066	52397	T1702.0B_2007	1/1
1703.00	2007	52506	53603	T1703.0F_2007_1	1/1
1704.00	2007	48372	49720	T1704.0B_2007	1/1
1705.00	2007	49835	50938	T1705.0F_2007	1/1
1706.00	2006	80141	81507	T1706.0B_2006	1/1
1707.00	2006	81605	82770	T1707.0F_2006_1	1/1
1708.00	2006	77419	78762	T1708.0B_2006	1/1
1709.00	2006	78904	80035	T1709.0F_2006_1	1/1
1710.00	2006	74666	76003	T1710.0B_2006	1/1
1711.00	2006	76157	77297	T1711.0F_2006_1	1/1
1712.00	2006	71938	73249	T1712.0B_2006	1/1
1713.00	2006	73366	74526	T1713.0F_2006_1	1/1
1714.00	2006	69302	70580	T1714.0B_2006	1/1
1715.00	2006	70697	71808	T1715.0F_2006	1/1
1716.00	2006	61551	62858	T1716.0B_2006	1/1
1717.00	2006	60265	61434	T1717.0F_2006	1/1
1718.00	2006	58837	60154	T1718.0B_2006	1/1
1719.00	2006	57533	58666	T1719.0F_2006	1/1
1720.00	2006	56120	57420	T1720.0B_2006	1/1
1721.00	2006	54857	55968	T1721.0F_2006	1/1
1722.00	2006	53530	54751	T1722.0B_2006	1/1
1723.00	2006	52328	53403	T1723.0F_2006	1/1
1724.00	2006	51038	52209	T1724.0B_2006	1/1
1725.00	2006	49829	50905	T1725.0F_2006	1/1
1726.00	2006	48526	49714	T1726.0B_2006	1/1
1727.00	2006	47304	48384	T1727.0F_2006	1/1
1728.00	2006	43571	44724	T1728.0B_2006	1/1
1729.00	2001	63627	64762	Video Unavailable	N/A
1730.00	2001	62431	63489	Video Unavailable	N/A
1731.00	2001	61166	62292	Video Unavailable	N/A
1732.00	2001	59985	61025	Video Unavailable	N/A
1733.00	2001	58747	59856	Video Unavailable	N/A
1734.00	2001	57569	58601	Video Unavailable	N/A
1735.00	2001	56355	57447	Video Unavailable	N/A

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1736.00	2001	55147	56195	Video Unavailable	N/A
1737.00	2001	53962	55008	Video Unavailable	N/A
1738.00	2001	52770	53788	T1738.0B_2001_1	1/1
1739.00	2001	51556	52616	T1739.0F_2001_	1/1
1740.00	2001	50364	51398	T1740.0B_2001_1	1/1
1741.00	2006	44865	45887	T1741.0F_2006_	1/1
1742.00	2006	46025	47115	T1742.0B_2006_	1/1
1743.00	2005	76037	76497	T1743.0F_2005_	1/1
1743.01	2006	68453	69079	T1743.0F_2006_	1/1
1744.00	2004	78590	79644	T1744.0B_2004_	1/1
1745.00	2004	79770	80830	T1745.0F_2004_1	1/1
1746.00	2004	76327	77314	T1746.0B_2004_	1/1
1747.00	2004	77444	78498	T1747.0F_2004_1	1/1
1748.00	2004	74059	75077	T1748.0B_2004_	1/1
1749.00	2004	75189	76200	T1749.0F_2004_1	1/1
1750.00	2004	71755	72771	T1750.0B_2004_	1/1
1751.00	2004	72896	73941	T1751.0F_2004_1	1/1
1752.00	2004	69489	70515	T1752.0B_2004_	1/1
1753.00	2004	70649	71640	T1753.0F_2004_	1/1
1754.00	2004	67326	68310	T1754.0B_2004_	1/1
1755.00	2004	68407	69378	T1755.0F_2004_1	1/1
1756.00	2004	59230	60172	T1756.0B_2004_	1/1
1757.00	2004	66234	67226	T1757.0F_2004_1	1/1
1758.00	2004	57109	58045	T1758.0B_2004_	1/1
1759.00	2004	58176	59122	T1759.0F_2004_	1/1
1760.00	2004	54976	55915	T1760.0B_2004_	1/1
1761.00	2004	56044	56999	T1761.0F_2004_1	1/1
1762.00	2004	52842	53781	T1762.0B_2004_	1/1
1763.00	2004	53916	54871	T1763.0F_2004_	1/1
1764.00	2004	50644	51596	T1764.0B_2004_	1/1
1765.00	2004	51734	52685	T1765.0F_2004_1	1/1
1766.00	2004	48535	49460	T1766.0B_2004_	1/1
1767.00	2004	49589	50529	T1767.0F_2004_	1/1
1768.00	2004	46459	47391	T1768.0B_2004_	1/1
1769.00	2004	47516	48419	T1769.0F_2004_	1/1
1770.00	2004	44362	45283	T1770.0B_2004_	1/1
1771.00	2004	45428	46325	T1771.0F_2004_	1/1
1772.00	2003	77624	78490	T1772.0B_2003_	1/1
1773.00	2003	78669	79605	T1773.0F_2003_1	1/1
1774.00	2003	75528	76402	T1774.0B_2003_	1/1
1775.00	2003	76551	77512	T1775.0F_2003_1	1/1
1776.00	2003	73489	74345	T1776.0B_2003_	1/1
1777.00	2003	74496	75414	T1777.0F_2003_1	1/1
1778.00	2003	71435	72290	T1778.0B_2003_	1/1
1779.00	2003	72459	73373	T1779.0F_2003_1	1/1
1780.00	2003	69387	70236	T1780.0B_2003_	1/1
1781.00	2003	70394	71307	T1781.0F_2003_1	1/1
1782.00	2003	67384	68221	T1782.0B_2003_	1/1
1783.00	2003	68371	69266	T1783.0F_2003_1	1/1
1784.00	2003	65397	66235	T1784.0B_2003_	1/1
1785.00	2003	66385	67255	T1785.0F_2003_1	1/1
1786.00	2003	63402	64241	T1786.0B_2003_	1/1
1787.00	2003	64378	65253	T1787.0F_2003_1	1/1
1788.00	2003	61326	62173	T1788.0B_2003_	1/1
1789.00	2003	62334	63189	T1789.0F_2003_	1/1
1789.01	1036	43211	44021	T1789.0F_1036_	1/1
1790.00	2002	81204	82160	Video Unavailable	N/A
1791.00	2002	82275	83077	Video Unavailable	N/A

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1792.00	2002	79249	80161	Video Unavailable	N/A
1793.00	2002	80274	81061	Video Unavailable	N/A
1794.00	2002	77279	78227	Video Unavailable	N/A
1795.00	2002	78348	79148	Video Unavailable	N/A
1796.00	2002	75221	76192	Video Unavailable	N/A
1797.00	2002	76305	77144	Video Unavailable	N/A
1798.00	2002	73234	74183	Video Unavailable	N/A
1799.00	2002	74306	75105	Video Unavailable	N/A
1800.00	2002	71250	72195	Video Unavailable	N/A
1801.00	2002	72312	73090	Video Unavailable	N/A
1802.00	2002	69227	70171	Video Unavailable	N/A
1803.00	2002	70315	71077	Video Unavailable	N/A
1804.00	2002	61278	62099	Video Unavailable	N/A
1805.00	2002	62217	62936	Video Unavailable	N/A
1806.00	2002	59496	60321	Video Unavailable	N/A
1807.00	2002	60439	61165	Video Unavailable	N/A
1808.00	2002	57650	58447	Video Unavailable	N/A
1809.00	2002	58637	59354	Video Unavailable	N/A
1810.00	2002	55906	56698	Video Unavailable	N/A
1811.00	2002	56816	57523	Video Unavailable	N/A
1812.00	2002	54157	54935	Video Unavailable	N/A
1813.00	2002	55060	55779	Video Unavailable	N/A
1814.00	2002	52410	53176	Video Unavailable	N/A
1815.00	2002	53298	53994	Video Unavailable	N/A
1816.00	2002	50699	51465	Video Unavailable	N/A
1817.00	2002	51590	52282	Video Unavailable	N/A
1818.00	2002	49004	49753	Video Unavailable	N/A
1819.00	2002	49871	50568	Video Unavailable	N/A
1820.00	2002	47333	48070	T1820.0B_2002	1/1
1821.00	2002	48199	48873	T1821.0F_2002_1	1/1
1822.00	2002	45667	46407	T1822.0B_2002	1/1
1823.00	2002	46538	47197	T1823.0F_2002_1	1/1
1824.00	2002	43950	44693	T1824.0B_2002	1/1
1824.01	2030	69680	70395	T1824.0B_2030	1/1
1825.00	2002	44817	45471	T1825.0F_2002	1/1
1825.01	2030	70534	71221	T1825.0F_2030	1/1
1826.00	1020	83349	84060	T1826.0B_1020	1/1
1827.00	1020	82517	83213	T1827.0F_1020	1/1
1828.00	1020	81654	82368	T1828.0B_1020	1/1
1829.00	1020	80814	81493	T1829.0F_1020	1/1
1830.00	1020	79987	80678	T1830.0B_1020	1/1
1831.00	1020	79180	79856	T1831.0F_1020	1/1
1832.00	1020	78350	79024	T1832.0B_1020	1/1
1833.00	1020	77500	78168	T1833.0F_1020	1/1
1834.00	1020	76662	77335	T1834.0B_1020	1/1
1835.00	1020	75879	76525	T1835.0F_1020	1/1
1836.00	1020	75071	75740	T1836.0B_1020	1/1
1837.00	1020	74264	74903	T1837.0F_1020	1/1
1838.00	1018	62147	62776	T1838.0B_1018	1/1
1839.00	1016	54642	55256	T1839.0F_1016	1/1
1840.00	1016	53868	54502	T1840.0B_1016	1/1
1841.00	1016	53131	53731	T1841.0F_1016	1/1
1842.00	1016	52368	53004	T1842.0B_1016	1/1
1843.00	1016	51622	52207	T1843.0F_1016	1/1
1844.00	1016	50857	51468	T1844.0B_1016	1/1
1845.00	1016	50144	50722	T1845.0F_1016_1	1/1
1846.00	1016	49404	50003	T1846.0B_1016	1/1
1847.00	1015	62368	62964	T1847.0F_1015	1/1

Digital Video Inventory

Line	Flight	Data Time Start	Data Time End	Video Filename (.avi)	# of Files
1848.00	1015	63089	63665	T1848.0B_1015_1	1/1
1849.00	1015	60880	61476	T1849.0F_1015	1/1
1850.00	1015	61635	62207	T1850.0B_1015_2	1/1
1851.00	1015	59307	59895	T1851.0F_1015	1/1
1852.00	1015	60034	60608	T1852.0B_1015_1	1/1



Appendix XII





GEOPHYSICAL SURVEY AIRCRAFT

DE HAVILLAND DHC-6 TWIN OTTER

Registration	C-GSGF
Serial #	642

The de Havilland DHC-6 Twin Otter is an all metal, high wing, twin-engine, short takeoff and landing (STOL) aircraft. The Twin Otter is powered by two Pratt & Whitney Canada PT6A-27 engines. These engines drive a constant speed, fully feathering, reversible propeller. The PT6 turbine engines provide ample power for climbing over steep terrain, working at altitudes up to 7,000 m and can withstand frequent rapid power changes. The aircraft is highly maneuverable, rugged in design and can be flown at speeds from 80 to 160 knots. The low stall speeds and abundant available power make the Twin Otter a safe and effective aircraft for surveys requiring drupe flying over rough topography, low air speeds or flights at high altitude. The aircraft has fixed gear, extendable flaps and manually adjustable trim tabs on the primary controls for the roll and pitch axes and full rudder trim for the yaw axis. The aircraft is equipped with full de-icing equipment and sufficient avionics for instrument flying including a flight control system. Supplementary fuel can be added for transoceanic flight. The Twin Otter is certified for IFR flights in known icing conditions.



■ GEOPHYSICAL SURVEYING

The SGL Twin Otter is fully equipped for airborne magnetic, gravity, radiometric and frequency-domain EM surveys. EM fields are measured with the SGL frequency-domain EM system (SGFEM). The four-frequency EM transmitter is located in the right wingtip EM pod, and the receiver is located in the left wingtip EM pod. The magnetic field is measured by up to two sensors allowing for horizontal gradient with one sensor in the composite nose stinger and one in the left wingtip EM pod. Gravity surveys are performed using SGL's state-of-the-art **AIRGrav** system. The Twin Otter can carry up to 63 litres of detector crystals for gamma-ray spectrometer surveys.

DE HAVILLAND DHC-6 TWIN OTTER SPECIFICATIONS

Crew Capacity:

- 2 pilots, 1 operator (optional)

Fuselage:

- semi-monocoque

Wings:

- strut braced, high wing
- outboard ailerons and trim tab, full span flaps

Tail:

- conventional stabilizers
- elevator and rudder with trim tabs

Power Plant:

- Pratt & Whitney Canada PT6A-27, 680 shp, free-turbine gas engine, overhaul 3,600 hours
- three-blade, fully-feathering, constant-speed, reversible propeller, overhaul 3,000 hours or 5 years

Systems:

- dual flight controls with IFR instruments and avionics
- 2-axis autopilot
- full airframe and propeller de-icing

Dimensions:

Wing span	65 ft	19.8 m
Exterior length	51 ft 9 in	15.8 m
Exterior height	19 ft 6 in	5.94 m
Interior usable length	18 ft 5 in	5.61 m
Interior usable width	4 ft 4 in	1.32 m
Interior height	4 ft 11 in	1.5 m
Usable fuel capacity	385 US gal	1,455 l

Weights:

Empty	8,100 lb	3,674 kg
Maximum take-off	12,500 lb	5,670 kg

Performance (2,000 ft ASL, standard day, maximum take-off weight, 1,900 rpm, 1,375 ft-lb tq):

Range, maximum range power (plus reserve)	920 nm	1,704 km
Cruise speed at maximum range power	170 kt	315 km/h
Fuel flow at maximum range power	50 US gal/h	189 l/h
Stall airspeed, landing configuration	58 kt	107 km/h
Service ceiling	25,000 ft	7,620 m
Minimum required runway length	2,500 ft	762 m
Rate of climb	1,600 ft/min	488 m/min
Maximum sustained climb gradient	650 ft/nm	107 m/km

Type of Aviation Fuel:

Jet A, A-1, B, JP-1, 4, 5, 8

Maximum Endurance:

8 hours plus 1 hour reserve at maximum range power

GEOPHYSICAL CAPABILITIES

SGFEM, frequency-domain EM

AIRGrav, SGL airborne gravimeter

Magnetic total field

Horizontal magnetic gradient

Gamma-ray spectrometer, up to 63 litres (3,840 in³) of detector crystals

SGMethane, methane gas sensing

Additional Features:

- Nose stinger, 1.8 m long, 23 cm in diameter, capable of housing a 5.5 kg sensor
- HF radio
- Video camera mount with 23 cm diameter glass covered opening in the belly of the aircraft
- Two instrument racks, standard 48 cm (19 in) width
- Radar altimeter, 0–750 m
- Electrical power capacity, 28 VDC at 200 amp
- Static inverters, 115 VAC – 400 Hz, 110 VAC – 60 Hz
- GPS receiver and antenna