

## Notes for Signalling Unit Log for (9M-MRO) Flight MH370

This set of notes and accompanying tables is intended to provide a readable summary of the data communication logs from the Inmarsat satellite system provided to the authorities in connection with the ongoing investigation and search and rescue activities relating to MH370.

- All times are in UTC
- The table below is a readable form of the logfile recorded at the ground earth station for the communications with the terminal on MH370 from 16:00 to the last Handshake Request (Log On Interrogation) attempt at 01:16 UTC
- Some columns which contain no material information have been removed from the tables below for readability

An example of a complete message for a single log entry:

Field Headings:

Time, AES ID, DP AES Owner, Channel Name, Ocean Region, GES ID (octal), Channel Bearer, Channel Unit ID, Channel Type, Superframe Number, Frame Number, Slot Number, SU Number, SU Type, SU Type Code, SU Contents, Q Number, Reference Number, Ack Control, SDM Figure, CRC Correct, Missed T-Channel Burst, Broadcast, Rx Power (dBm), C/No, Frequency Offset (Hz), Estimated BER, Burst Timing Offset (microseconds)

Example message:

7/03/2014 16:42:04.408,35200217,SITADP (3047),IOR-R1200-0-36ED,IOR,305,Rx Primary,4,R-Channel RX,12184,,5,,0x62 - Acknowledge User Data (R-channel),62,1F D0 62 75 00 8F C5 7A 4E 00 00 00 00 00 00 00 00 7F 89 ,D,0,E,S31,Yes,No,No,-57.29,40.09,146,0,14920

## Understanding the Burst Timing Offset (BTO) values:

- The round trip time for a message is a combination of:
  1. Time from the ground station → satellite → aircraft → satellite → ground station
  2. Processing time within the ground station, satellite and aircraft terminal, which are constant
- The BTO is a value (in microseconds) relative to a terminal at a nominal fixed location. Only R-Channel messages are used.
- The BTO therefore allows the determination of the distance between the satellite and the aircraft. It does not provide the actual aircraft location

### Understanding the Burst Frequency Offset (BFO) values:

- The transmission signal path from the aircraft has two components affected by Doppler shift; between the satellite and aircraft, and between the satellite and ground station
- The following need to be considered when computing the expected frequency offset:
  - Inmarsat Classic Aero mobile terminals are designed to correct for aircraft Doppler effects on their transmit signals. The terminal type used on MH370 assumes a stationary satellite at a fixed orbital position
  - An individual aircraft terminal will have a fixed frequency bias
  - Satellite, terminal and ground station oscillator stability
  - The correction applied by the Automatic Frequency Control (AFC) system in the ground station partially compensates for the satellite to ground station Doppler

Readable Log Messages: provided in connection with the MH370 investigation and search and rescue activities  
(please read in conjunction with the notes pages)

**Pre Take-Off**

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:00:13.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	103	14820
7/03/2014 16:00:13.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x15 - Log-on/Log-off Acknowledge		
7/03/2014 16:00:17.430	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	103	14740
7/03/2014 16:00:17.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	103	14780
7/03/2014 16:00:18.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eight Octet User Data	103	14820
7/03/2014 16:00:18.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:00:20.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:00:20.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:20.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:20.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:22.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	104	14740
7/03/2014 16:00:23.407	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x22 - Access Request (R/T-Channel)	103	14820
7/03/2014 16:00:23.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:00:27.741	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	86	9820
7/03/2014 16:00:27.901	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	86	9820
7/03/2014 16:00:28.061	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9820
7/03/2014 16:00:28.221	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9820
7/03/2014 16:00:28.405	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9820
7/03/2014 16:00:28.541	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9820
7/03/2014 16:00:29.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:00:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:00:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:00:32.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	85	14820
7/03/2014 16:01:16.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	86	14820
7/03/2014 16:01:16.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Four Octet User Data	86	14820
7/03/2014 16:01:17.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:01:18.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:01:18.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:01:19.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x22 - Access Request (R/T-Channel)	87	14780
7/03/2014 16:01:20.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:01:20.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	87	14800
7/03/2014 16:01:24.241	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	88	9800
7/03/2014 16:01:24.401	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9800
7/03/2014 16:01:24.561	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9800
7/03/2014 16:01:24.721	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9800
7/03/2014 16:01:24.881	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	86	9800
7/03/2014 16:01:25.041	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	86	9800
7/03/2014 16:01:25.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:01:26.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:01:26.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:01:28.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	86	14800
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:32.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

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Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:40.907	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	87	14820
7/03/2014 16:06:41.409	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	87	14820
7/03/2014 16:06:41.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	87	14800
7/03/2014 16:06:42.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eight Octet User Data	87	14880
7/03/2014 16:06:42.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:46.416	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	90	14840
7/03/2014 16:06:46.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	86	14780
7/03/2014 16:06:47.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	88	14840
7/03/2014 16:06:47.907	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eight Octet User Data	87	14800
7/03/2014 16:06:48.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:52.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	87	14800
7/03/2014 16:06:53.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	87	14860
7/03/2014 16:06:53.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	88	14780
7/03/2014 16:06:54.407	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eight Octet User Data	88	14860
7/03/2014 16:06:54.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:06:56.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:02.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:04.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	88	14820
7/03/2014 16:07:05.407	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	88	14820
7/03/2014 16:07:05.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	89	14860
7/03/2014 16:07:06.407	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eight Octet User Data	88	14820
7/03/2014 16:07:06.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:10.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	87	14800

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:07:11.406	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	88	14860
7/03/2014 16:07:11.906	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	Eleven Octet User Data	87	14840
7/03/2014 16:07:13.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:07:15.907	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	Eight Octet User Data	84	14820
7/03/2014 16:07:16.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:18.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:07:20.407	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	84	14840
7/03/2014 16:07:20.907	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	Eleven Octet User Data	84	14800
7/03/2014 16:07:21.408	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	Eleven Octet User Data	84	14840
7/03/2014 16:07:21.908	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	Eight Octet User Data	84	14840
7/03/2014 16:07:22.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:09:37.407	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x22 - Access Request (R/T-Channel)	84	14840
7/03/2014 16:09:37.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:09:41.749	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	88	9900
7/03/2014 16:09:41.948	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	88	9900

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:09:42.068	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9900
7/03/2014 16:09:42.260	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9900
7/03/2014 16:09:42.405	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	90	9900
7/03/2014 16:09:42.548	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	90	9900
7/03/2014 16:09:42.709	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	90	9900
7/03/2014 16:09:42.869	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	90	9900
7/03/2014 16:09:43.028	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9900
7/03/2014 16:09:43.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:09:44.907	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:09:44.907	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:09:44.907	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:09:44.907	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:09:46.907	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	85	14840
7/03/2014 16:11:03.907	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x22 - Access Request (R/T-Channel)	84	14840
7/03/2014 16:11:04.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:11:08.306	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	89	9820
7/03/2014 16:11:08.409	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9820
7/03/2014 16:11:08.568	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9820
7/03/2014 16:11:08.746	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9820
7/03/2014 16:11:08.888	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9820
7/03/2014 16:11:09.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	89	9820
7/03/2014 16:11:09.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:11:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:11:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:11:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:11:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:11:13.408	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	84	14860
7/03/2014 16:27:59.407	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x22 - Access Request (R/T-Channel)	88	14920
7/03/2014 16:27:59.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x53 - Reservation Forthcoming (RFC)		
7/03/2014 16:28:01.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:28:10.641	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	0x71 - User Data (ISU) - RLS	87	9920
7/03/2014 16:28:10.801	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	87	9920
7/03/2014 16:28:10.961	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.142	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.281	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.479	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.601	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.761	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:11.952	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:12.081	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:12.258	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	88	9920
7/03/2014 16:28:12.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:28:13.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:28:13.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:28:13.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:28:13.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:28:15.909	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	85	14860
7/03/2014 16:29:17.407	IOR-R1200-0-36E3	IOR	305	11	R-Channel RX	0x22 - Access Request (R/T-Channel)	95	14860
7/03/2014 16:29:17.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:29:21.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	99	9940
7/03/2014 16:29:21.908	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:22.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:29:22.228	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:22.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:22.570	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:22.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:22.895	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:23.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.197	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.668	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.829	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:23.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:24.029	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:25.760	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:25.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:26.081	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:26.251	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:26.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:26.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:26.745	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:26.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:27.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:27.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	98	9940
7/03/2014 16:29:27.349	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:27.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	100	9940
7/03/2014 16:29:27.668	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:29:27.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:27.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	99	9940
7/03/2014 16:29:28.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:29:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:29:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:30.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 16:29:41.907	IOR-R1200-0-36D3	IOR	305	8	R-Channel RX	0x22 - Access Request (R/T-Channel)	96	14920
7/03/2014 16:29:42.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:29:46.242	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	0x71 - User Data (ISU) - RLS	93	9900
7/03/2014 16:29:46.402	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:46.562	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:46.744	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:46.882	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	91	9900
7/03/2014 16:29:47.042	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	91	9900
7/03/2014 16:29:47.202	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:47.362	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:47.522	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	92	9900
7/03/2014 16:29:47.682	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	92	9900
7/03/2014 16:29:47.856	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	91	9900
7/03/2014 16:29:47.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 16:29:48.039	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	91	9900
7/03/2014 16:29:48.162	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:48.322	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	93	9900
7/03/2014 16:29:48.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:29:49.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	87	14940
7/03/2014 16:29:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:29:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:50.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:29:52.406	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	89	14920

### Post Take-Off

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
<b>16:41 - Take-Off.Logged-On to Ground Earth Station (GES) 305/301, via the Indian Ocean Region (IOR) Inmarsat I-3 satellite</b>								
7/03/2014 16:41:52.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	141	14940
7/03/2014 16:41:53.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:41:57.248	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	0x71 - User Data (ISU) - RLS	142	9920
7/03/2014 16:41:57.409	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	142	9920
7/03/2014 16:41:57.569	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	140	9920
7/03/2014 16:41:57.728	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	0x22 - Access Request (R/T-Channel)	140	9920
7/03/2014 16:41:57.905	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	140	9920
7/03/2014 16:41:58.048	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	140	9920
7/03/2014 16:41:58.208	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	140	9920
7/03/2014 16:41:58.399	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	140	9920
7/03/2014 16:41:58.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:41:58.528	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	141	9920
7/03/2014 16:41:58.697	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	141	9920
7/03/2014 16:41:58.729	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	141	9920
7/03/2014 16:41:59.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:42:00.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:42:00.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:00.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:00.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:02.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	147	9980
7/03/2014 16:42:02.229	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	9980
7/03/2014 16:42:02.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	9980
7/03/2014 16:42:02.553	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	9980
7/03/2014 16:42:02.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9980

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:42:02.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9980
7/03/2014 16:42:03.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	149	9980
7/03/2014 16:42:03.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	149	9980
7/03/2014 16:42:03.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9980
7/03/2014 16:42:03.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9980
7/03/2014 16:42:04.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:42:04.408	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	146	14920
7/03/2014 16:42:17.406	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	160	14960
7/03/2014 16:42:17.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:42:21.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	157	9940
7/03/2014 16:42:21.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	157	9940
7/03/2014 16:42:22.069	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	154	9940
7/03/2014 16:42:22.239	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	154	9940
7/03/2014 16:42:22.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	156	9940
7/03/2014 16:42:22.550	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	156	9940
7/03/2014 16:42:22.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	157	9940
7/03/2014 16:42:22.891	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	157	9940
7/03/2014 16:42:23.039	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	154	9940
7/03/2014 16:42:23.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	154	9940
7/03/2014 16:42:23.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	153	9940
7/03/2014 16:42:23.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	153	9940
7/03/2014 16:42:23.697	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	152	9940
7/03/2014 16:42:23.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	152	9940
7/03/2014 16:42:23.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	150	9940
7/03/2014 16:42:24.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	150	9940
7/03/2014 16:42:25.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940
7/03/2014 16:42:25.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:42:26.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940
7/03/2014 16:42:26.229	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940
7/03/2014 16:42:26.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	146	9940
7/03/2014 16:42:26.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	146	9940
7/03/2014 16:42:26.709	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940
7/03/2014 16:42:26.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	9940
7/03/2014 16:42:27.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	146	9940
7/03/2014 16:42:27.189	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	146	9940
7/03/2014 16:42:27.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	145	9940
7/03/2014 16:42:27.509	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	145	9940
7/03/2014 16:42:27.668	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	144	9940
7/03/2014 16:42:27.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	144	9940
7/03/2014 16:42:27.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	145	9940
7/03/2014 16:42:28.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:42:29.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:42:29.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:29.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:29.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:31.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	125	14900
7/03/2014 16:42:32.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	127	14900
7/03/2014 16:42:33.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:42:37.248	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	121	9940
7/03/2014 16:42:37.408	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	121	9940
7/03/2014 16:42:37.568	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	121	9940
7/03/2014 16:42:37.765	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	121	9940
7/03/2014 16:42:37.888	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	120	9940
7/03/2014 16:42:38.048	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	120	9940

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:42:38.208	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:38.368	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:38.546	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:38.689	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:38.848	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:39.041	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9940
7/03/2014 16:42:39.168	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	121	9940
7/03/2014 16:42:39.328	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	121	9940
7/03/2014 16:42:39.489	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9940
7/03/2014 16:42:39.528	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9940
7/03/2014 16:42:41.248	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9900
7/03/2014 16:42:41.409	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9900
7/03/2014 16:42:41.568	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:41.747	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:41.888	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.082	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.208	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.368	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.529	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.688	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:42.848	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9900
7/03/2014 16:42:43.008	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	122	9900
7/03/2014 16:42:43.168	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	123	9900
7/03/2014 16:42:43.328	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	123	9900
7/03/2014 16:42:43.488	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	124	9900
7/03/2014 16:42:44.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:42:45.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:42:45.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:45.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:45.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:42:47.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	123	14920
7/03/2014 16:42:48.406	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	123	14900
7/03/2014 16:42:48.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:42:52.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	131	9960
7/03/2014 16:42:52.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	131	9960
7/03/2014 16:42:53.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	9960
7/03/2014 16:42:53.247	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	9960
7/03/2014 16:42:53.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:53.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:53.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:53.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:54.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:54.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:54.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:54.509	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:54.668	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:54.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:54.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:55.029	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:56.787	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:56.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:57.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:57.228	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:57.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:42:57.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:57.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	9960
7/03/2014 16:42:57.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	9960
7/03/2014 16:42:58.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:58.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:58.359	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:58.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	9960
7/03/2014 16:42:58.669	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:58.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	9960
7/03/2014 16:42:59.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:43:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:43:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:43:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:43:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:43:10.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 16:43:12.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	126	14920
7/03/2014 16:55:23.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	156	15200
7/03/2014 16:55:24.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:55:28.290	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	0x71 - User Data (ISU) - RLS	157	10220
7/03/2014 16:55:28.409	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	157	10220
7/03/2014 16:55:28.569	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	157	10220
7/03/2014 16:55:28.747	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	157	10220
7/03/2014 16:55:28.889	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:29.049	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:29.247	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:29.369	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:29.529	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:55:29.689	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:29.849	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:30.009	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:30.169	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:30.362	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:30.502	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:30.538	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:32.249	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:32.409	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:32.569	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:32.729	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:32.905	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:33.049	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:33.237	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:33.369	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:33.529	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:33.689	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	160	10220
7/03/2014 16:55:33.849	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	158	10220
7/03/2014 16:55:34.009	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	158	10220
7/03/2014 16:55:34.169	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:34.329	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	159	10220
7/03/2014 16:55:34.489	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	158	10220
7/03/2014 16:55:35.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:55:35.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:55:35.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:55:35.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:55:35.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:55:37.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	156	15200
7/03/2014 16:55:38.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	155	15220
7/03/2014 16:55:38.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:55:42.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	161	10240
7/03/2014 16:55:42.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	161	10240
7/03/2014 16:55:43.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:43.260	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:43.405	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:43.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:43.740	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	161	10240
7/03/2014 16:55:43.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	161	10240
7/03/2014 16:55:44.029	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.669	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10240
7/03/2014 16:55:44.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	159	10240
7/03/2014 16:55:45.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	159	10240
7/03/2014 16:55:46.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10200
7/03/2014 16:55:46.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10200
7/03/2014 16:55:47.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10200
7/03/2014 16:55:47.229	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	160	10200
7/03/2014 16:55:47.390	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	159	10200
7/03/2014 16:55:47.549	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	159	10200
7/03/2014 16:55:47.709	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	161	10200
7/03/2014 16:55:47.899	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	161	10200

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:55:48.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10200
7/03/2014 16:55:48.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10200
7/03/2014 16:55:48.355	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10200
7/03/2014 16:55:48.509	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10200
7/03/2014 16:55:48.669	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10200
7/03/2014 16:55:48.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10200
7/03/2014 16:55:48.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10200
7/03/2014 16:55:49.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:55:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:55:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:55:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:55:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:55:52.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	159	15200
7/03/2014 16:55:53.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	159	15240
7/03/2014 16:55:53.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 16:55:57.748	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	163	10240
7/03/2014 16:55:57.910	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:55:58.087	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:58.228	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:58.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:55:58.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:55:58.708	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:55:58.869	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:55:59.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:55:59.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:55:59.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:59.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:55:59.669	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:59.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:55:59.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:00.060	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:01.749	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:56:01.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	164	10240
7/03/2014 16:56:02.068	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:02.229	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:02.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:02.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:02.747	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:02.868	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:03.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:03.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:03.348	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:03.508	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:03.668	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:56:03.828	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	162	10240
7/03/2014 16:56:03.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	163	10240
7/03/2014 16:56:04.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:56:05.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:56:05.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:05.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:05.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:07.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	158	15220
7/03/2014 16:56:08.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	158	15200
7/03/2014 16:56:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 16:56:12.748	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	0x71 - User Data (ISU) - RLS	156	10260
7/03/2014 16:56:12.949	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	156	10260
7/03/2014 16:56:13.068	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	156	10260
7/03/2014 16:56:13.228	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	156	10260
7/03/2014 16:56:13.403	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	156	10260
7/03/2014 16:56:13.548	IOR-T1200-0-36FA	IOR	305	10	T-Channel RX	Subsequent Signalling Unit	156	10260
7/03/2014 16:56:14.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 16:56:15.410	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 16:56:15.410	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:15.410	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:15.410	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 16:56:17.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	156	15240
7/03/2014 17:06:49.406	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	129	15600
7/03/2014 17:06:49.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 17:06:53.749	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	0x71 - User Data (ISU) - RLS	135	10600
7/03/2014 17:06:53.909	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.069	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.229	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.389	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.550	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.736	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:54.869	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:55.045	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:55.189	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:55.349	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:55.509	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:55.669	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:06:55.829	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:55.989	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:56.029	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:57.749	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:06:57.909	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:06:58.069	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:58.236	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:58.389	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:58.569	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:58.709	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:58.869	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:59.052	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:59.197	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10600
7/03/2014 17:06:59.349	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:59.509	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:06:59.682	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:06:59.829	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:06:59.989	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10600
7/03/2014 17:07:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 17:07:01.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 17:07:01.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:01.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:01.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:03.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	130	15600
7/03/2014 17:07:04.406	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	131	15620
7/03/2014 17:07:04.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 17:07:08.749	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	133	10600



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:07:08.948	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.069	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.229	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.389	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.548	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.747	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:09.869	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:10.029	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:10.197	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:10.349	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:10.509	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10600
7/03/2014 17:07:10.669	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:10.829	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:10.989	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:11.028	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	132	10600
7/03/2014 17:07:12.748	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:12.909	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:13.068	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	138	10600
7/03/2014 17:07:13.229	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	138	10600
7/03/2014 17:07:13.388	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:13.548	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:13.709	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:13.868	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:14.029	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:14.188	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:14.348	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:14.510	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:07:14.669	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:14.829	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10600
7/03/2014 17:07:15.028	IOR-T1200-0-36D8	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	138	10600
7/03/2014 17:07:15.906	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 17:07:16.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 17:07:16.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:16.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:16.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:18.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	132	15600
7/03/2014 17:07:19.407	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	132	15660
7/03/2014 17:07:19.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 17:07:23.766	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	137	10640
7/03/2014 17:07:23.908	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10640
7/03/2014 17:07:24.069	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10640
7/03/2014 17:07:24.258	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	137	10640
7/03/2014 17:07:24.389	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:24.559	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:24.709	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:24.869	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:25.029	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:25.189	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	133	10640
7/03/2014 17:07:25.352	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:25.509	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:25.669	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:25.829	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:26.003	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:26.028	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:07:27.749	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:27.909	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:28.069	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:28.228	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:28.388	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:28.548	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:28.709	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:28.894	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:29.029	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:29.188	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	134	10640
7/03/2014 17:07:29.349	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:29.509	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:29.675	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:29.829	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:29.988	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	135	10640
7/03/2014 17:07:30.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 17:07:31.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 17:07:31.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:31.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:31.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:33.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	130	15620
7/03/2014 17:07:34.427	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	132	15620
7/03/2014 17:07:34.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 17:07:38.749	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	0x71 - User Data (ISU) - RLS	136	10620
7/03/2014 17:07:38.910	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:39.076	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:39.229	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:07:39.389	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:39.549	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:39.709	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:39.869	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:40.030	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.189	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.349	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.509	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.673	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.829	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:40.989	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:41.029	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:42.762	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:42.909	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:43.093	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:43.258	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:43.405	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:43.549	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:43.743	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:43.869	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	136	10620
7/03/2014 17:07:44.029	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10620
7/03/2014 17:07:44.197	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	134	10620
7/03/2014 17:07:44.389	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:44.517	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:44.669	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:44.829	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620
7/03/2014 17:07:44.989	IOR-T1200-0-3718	IOR	305	12	T-Channel RX	Subsequent Signalling Unit	135	10620

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 17:07:45.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 17:07:46.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 17:07:46.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:46.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 17:07:46.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
<b>17:07 - Last Acknowledged Ground to Air DATA-2 ACARS Message. Link lost at sometime between here and 18:03:41.</b>								
7/03/2014 17:07:48.907	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	131	15620
<b>18:03 - No Response to Ground to Air DATA-2 ACARS Data. Link lost at sometime between 17:07:48 and here.</b>								
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:41.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:03:50.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:04:00.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:04:08.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:04:19.420	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:04:29.413	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
<b>18:04 - Last of five requests for Acknowledge to the Air DATA-2 ACARS Data at 18:03</b>								
<b>18:05:11 - Data-2 Ground to Air transmission, automatic ACARS retransmission after expiry of 90 sec timer. Terminal is not responding.</b>								
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:11.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:05:21.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:05:32.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:05:42.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
7/03/2014 18:05:51.405	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:05:59.905	IOR-P10500-0-3859	IOR	305	10	P-Channel TX	0x61 - Request for Acknowledge (RQA) User Data		
<b>18:25 - Log-On Request, initiated from the aircraft terminal. This is the end of the link lost period that began at sometime between 17:07:48 and 18:03:41.</b>								
7/03/2014 18:25:27.421	IOR-R600-0-36E1	IOR	305	8	R-Channel RX	0x10 - Log-on Request (ISU)/Log-on Flight Information (SSU)	142	17120
7/03/2014 18:25:28.852	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x11 - Log-on Confirm		
7/03/2014 18:25:29.572	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x40 - P-/R-Channel Control (ISU)		
7/03/2014 18:25:29.572	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:25:30.213	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x41 - T-Channel Control (ISU)		
7/03/2014 18:25:30.213	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:25:34.461	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	273	51700
7/03/2014 18:25:35.408	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x15 - Log-on/Log-off Acknowledge		
7/03/2014 18:27:03.905	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	Eleven Octet User Data	176	12560
7/03/2014 18:27:04.405	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	Four Octet User Data	175	12520
7/03/2014 18:27:04.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 18:27:06.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 18:27:06.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
7/03/2014 18:27:08.404	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	172	12520
7/03/2014 18:28:05.904	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x22 - Access Request (R/T-Channel)	144	12500
7/03/2014 18:28:06.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x51 - T-Channel Assignment		
7/03/2014 18:28:10.260	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	0x71 - User Data (ISU) - RLS	148	7540
7/03/2014 18:28:10.398	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	148	7540
7/03/2014 18:28:10.559	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	7540
7/03/2014 18:28:10.718	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	7540
7/03/2014 18:28:10.879	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	7540
7/03/2014 18:28:11.054	IOR-T1200-0-36D7	IOR	305	8	T-Channel RX	Subsequent Signalling Unit	147	7540
7/03/2014 18:28:11.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x62 - Acknowledge User Data		
7/03/2014 18:28:12.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x71 - User Data (ISU) - RLS		
7/03/2014 18:28:12.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:28:14.904	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x62 - Acknowledge User Data (R-channel)	143	12480
<b>18:39 - Ground Initiated to Air Telephony Call - Zero Duration (Not Answered)</b>								
7/03/2014 18:39:52.907	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x20 - Access Request/Call Announcement Telephone/Circuit-Mode Data		
7/03/2014 18:39:52.907	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x33 - C-Channel Assignment (Regularity)		
7/03/2014 18:39:52.907	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x20 - Access Request/Call Announcement Telephone/Circuit-Mode Data		
7/03/2014 18:39:52.907	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x33 - C-Channel Assignment (Regularity)		
7/03/2014 18:39:55.354	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	88	
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<b>84 C-Channel and 2 P-Channel messages moved into separate below table (see appendix 1) to ease the reading of key events. C-Channel messages have no BTO values</b>								
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7/03/2014 18:40:56.354	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	90	
<b>19:41 - Handshake Request, with response</b>								
7/03/2014 19:41:00.910	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
7/03/2014 19:41:02.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	111	11500
<b>20:41 - Handshake Request, with response</b>								
7/03/2014 20:41:02.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
7/03/2014 20:41:04.904	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	141	11740
<b>21:41 - Handshake Request, with response</b>								
7/03/2014 21:41:24.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
7/03/2014 21:41:26.905	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	168	12780
<b>22:41 - Handshake Request, with response</b>								
7/03/2014 22:41:19.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
7/03/2014 22:41:21.906	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	204	14540
<b>23:13 - Ground Initiated to Air Telephony Call - Zero Duration (Not Answered)</b>								
7/03/2014 23:13:58.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x20 - Access Request/Call Announcement Telephone/Circuit-Mode Data		
7/03/2014 23:13:58.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x33 - C-Channel Assignment (Regularity)		
7/03/2014 23:14:00.904	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	



Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
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**48 C-Channel and 1 P-Channel messages moved into separate below table (see appendix 2) to ease the reading of key events. C-Channel messages have no BTO values**  
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7/03/2014 23:15:02.032	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	219	
<b>00:10:58 - Handshake Request, with response</b>								
8/03/2014 00:10:58.000	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
8/03/2014 00:10:59.928	IOR-R1200-0-36ED	IOR	305	4	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	252	18040
<b>00:19:29 - Log-On Request (reported as a Partial Handshake), initiated from the aircraft terminal</b>								
8/03/2014 00:19:29.416	IOR-R600-0-36F8	IOR	305	10	R-Channel RX	0x10 - Log-on Request (ISU)/Log-on Flight Information (SSU)	182	23000
8/03/2014 00:19:31.572	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x11 - Log-on Confirm		
8/03/2014 00:19:32.212	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x40 - P-/R-Channel Control (ISU)		
8/03/2014 00:19:32.212	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
8/03/2014 00:19:32.852	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	0x41 - T-Channel Control (ISU)		
8/03/2014 00:19:32.852	IOR-P600-0-36FC	IOR	305	10	P-Channel TX	Subsequent Signalling Unit		
<b>00:19:37 - Note that the following R-Channel burst at 00:19:37.443 is the last transmission received from the aircraft terminal</b>								
8/03/2014 00:19:37.443	IOR-R1200-0-36F6	IOR	305	10	R-Channel RX	0x15 - Log-on/Log-off Acknowledge	-2	49660
8/03/2014 00:19:38.407	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x15 - Log-on/Log-off Acknowledge		
<b>01:15:56 – Handshake Request - No Response from Aircraft Terminal</b>								
8/03/2014 01:15:56.000	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
<b>01:16:06 - Handshake Request - No Response from Aircraft Terminal</b>								
8/03/2014 01:16:06.000	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		
<b>01:16:15 - Handshake Request - No Response from Aircraft Terminal</b>								
8/03/2014 01:16:15.000	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x14 - Log Control - Log-on Interrogation		

## Appendix 1

**Messages extracted between 18:39:55 and 18:40:56 above to ease reading**

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:39:55.664	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	87	
7/03/2014 18:39:55.673	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:55.837	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:55.862	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	87	
7/03/2014 18:39:55.988	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:55.999	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	87	
7/03/2014 18:39:56.165	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	87	
7/03/2014 18:39:56.173	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.215	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	86	
7/03/2014 18:39:56.344	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.491	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.499	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	87	
7/03/2014 18:39:56.524	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.524	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	86	
7/03/2014 18:39:56.665	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	86	
7/03/2014 18:39:56.673	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.703	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.741	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	86	
7/03/2014 18:39:56.835	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.854	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	90	
7/03/2014 18:39:56.859	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	90	

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:39:56.860	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.982	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:56.999	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:57.008	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:57.024	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	89	
7/03/2014 18:39:57.167	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:57.199	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:57.247	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	89	
7/03/2014 18:39:57.360	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:57.360	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	88	
7/03/2014 18:39:57.360	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:57.499	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:57.508	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:57.548	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	88	
7/03/2014 18:39:57.697	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:57.702	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 18:39:57.747	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:57.854	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:57.859	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:57.860	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.013	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:58.013	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.057	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:58.191	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	89	
7/03/2014 18:39:58.198	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.214	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:39:58.354	IOR-3730-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:58.359	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:58.360	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.407	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.508	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.552	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	87	
7/03/2014 18:39:58.702	IOR-373E-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:39:58.748	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	87	
7/03/2014 18:39:58.859	IOR-373E-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	88	
7/03/2014 18:39:59.024	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	87	
7/03/2014 18:39:59.245	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	87	
7/03/2014 18:39:59.359	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	87	
7/03/2014 18:39:59.557	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	87	
7/03/2014 18:39:59.747	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	86	
7/03/2014 18:39:59.861	IOR-373E-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	86	
7/03/2014 18:40:02.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 18:40:03.164	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	90	
7/03/2014 18:40:12.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 18:40:13.164	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	86	
7/03/2014 18:40:22.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 18:40:23.164	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	86	
7/03/2014 18:40:32.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 18:40:33.167	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	87	
7/03/2014 18:40:42.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 18:40:43.197	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	86	
7/03/2014 18:40:52.356	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 18:40:53.170	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	89	
7/03/2014 18:40:54.697	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:54.835	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:54.982	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:55.172	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:55.335	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:55.407	IOR-P10500-0-386B	IOR	301	10	P-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:55.483	IOR-3730-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 18:40:55.499	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	88	
7/03/2014 18:40:55.664	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	90	
7/03/2014 18:40:55.854	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	89	
7/03/2014 18:40:55.999	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	87	
7/03/2014 18:40:56.164	IOR-3730-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	89	

## Appendix 2

**Messages extracted between 23:14:01 and 23:15:03 above to ease reading**

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
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Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 23:14:01.196	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	217	
7/03/2014 23:14:01.215	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:01.378	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:01.386	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:01.554	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:01.554	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:01.697	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:01.745	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:01.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:01.903	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:02.025	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:02.049	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:02.196	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Test	216	
7/03/2014 23:14:02.215	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:02.378	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:02.386	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:02.527	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Test		
7/03/2014 23:14:02.532	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:02.697	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:02.888	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:03.071	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	217	
7/03/2014 23:14:03.196	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:03.386	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:03.531	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:03.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x60 - Telephony Acknowledge	216	
7/03/2014 23:14:07.905	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		

Time	Channel Name	Ocean Region	GES ID (octal)	Channel Unit ID	Channel Type	SU Type	Burst Frequency Offset (Hz) BFO	Burst Timing Offset (microseconds) BTO
7/03/2014 23:14:08.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	220	
7/03/2014 23:14:17.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 23:14:18.697	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	218	
7/03/2014 23:14:27.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 23:14:28.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	222	
7/03/2014 23:14:37.905	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 23:14:38.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	220	
7/03/2014 23:14:47.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 23:14:48.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	220	
7/03/2014 23:14:57.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Status Report		
7/03/2014 23:14:58.696	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Status Report	218	
7/03/2014 23:15:00.378	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:00.532	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:00.750	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:00.878	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:00.907	IOR-P10500-0-386B	IOR	305	10	P-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:01.025	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:01.197	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	218	
7/03/2014 23:15:01.224	IOR-3737-21000	IOR	305	6	C-Channel TX	0x30 - Call Progress - Channel Release		
7/03/2014 23:15:01.386	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	217	
7/03/2014 23:15:01.532	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	219	
7/03/2014 23:15:01.697	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	219	
7/03/2014 23:15:01.886	IOR-3737-21000	IOR	305	6	C-Channel RX	0x30 - Call Progress - Channel Release	217	