
EUROPEAN SPACE AGENCY
DIRECTORATE OF TECHNICAL & OPERATIONAL SUPPORT
MISSION OPERATIONS DEPARTMENT

INTEGRAL
Mission Report
INT-MOC-SYS-RP-1001-TOS-OF
No. 050
Week 36
09.09.03
Routine Phase

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1 General

The Flight Control Team at MOC has compiled this report with some input provided by the Flight Dynamics Team.

It addresses the activities from 30.08.03 until 05.09.03 (both dates inclusive) and covers the revolutions 108 & 109.

2 Summary of Activities

The operations were performed according to the planning inputs from ISOC combined with some manual commanding by MOC.

The targets of these revolutions were the Galactic Center and SgrA* (RA 17:45:40.00; DEC -29:00:28.0), as well as SGR1806-20 (RA 18:08:40.20; DEC -20:24:47.4). The activities performed consisted of raster dithering observations.

Note: Some further information concerning the activities is provided in the Appendix.

3 Satellite Status

3.1 Platform

The performance of the platform was good. No unexpected behaviour / malfunction was identified.

3.1.1 AOCS

The AOCS operations were performed from the timeline during this period.

Several slews were missed due to problems in the Mission Control System. There was also a case of loss of the Guide Star due to False Events in the Star Tracker during the perigee passage.

The fuel consumption over the period between 29/08/2003 and 05/09/2003 was 0.135Kg. The remaining propellant is in the order of 175.092 Kg on the 5th of September.

Note: Some more information concerning the AOCS operations and the fuel budget is provided in the Appendix.

3.1.2 Power

The power subsystem is working as specified. The available power from the arrays is in the order of **2250W**. This means that there is no noticeable degradation of the solar arrays since launch.

3.1.3 Thermal

The thermal control of the satellite is working well. The temperatures are currently all within the specified operational limits.

3.1.4 OBDH

The OBDH subsystem is working flawlessly. No on-board communications problem identified.

3.1.5 RF

The RF subsystem is working properly. The link margin is sufficient to ensure proper TM reception and execution of commands with the ranging channel enabled.

3.2 Payload

3.2.1 SPI

The overall status of the instrument is nominal.

During the reporting period the instrument was in photon-by-photon mode with spectra TM enabled and an assigned TM bandwidth in the science windows of 98 pkts/cycle.

The cryo-cooler is working well: a small stroke adjustment was commanded to maintain 85K in the coldplate.

Note: Some more information concerning the SPI operations is provided in the Appendix.

3.2.2 IBIS

The Status of the unit is Nominal. The TM bandwidth assigned to IBIS is 134 pkts/8sec.

Note: Some more information concerning the IBIS operations is provided in the Appendix.

3.2.3 JEM-X

During the reporting period, JEM-X2 operations were executed from the Automatic Timeline and JEM-X1 was dormant.

Note: Some more information concerning the JEM-X operations is provided in the Appendix

3.2.4 OMC

During this period 135 OMC images were acquired with 4 missed due various problems within the MOC.

Note: Some more information concerning the OMC operations is provided in the Appendix.

3.2.5 IREM

The status of the unit is Nominal.

Note: Some more information concerning the IREM operations is provided in the Appendix.

4 Ground Facilities

The performance of the ground segment was well within the specification. The operations were executed smoothly, the main problem this week described below, concerned the consolidator.

4.1 Mission Operations Centre

There were some minor events spotted on the MCS this week, and a continuation of the consolidator problems mentioned last week.

- On DoY 244 at 22:42 there was a drop in TM caused by a reboot of the IDDA. This caused an attitude command to fail, which meant that pointing 01080012 was lost, the OMC commands also failed for pointing 01080013 early the following day.
- On DoY 248 at 10:08, the FEC at Redu was rebooted, this caused a short drop of TM from 10:34 till the reboot was completed at 10:40, there was no impact.
- On DoY 248, at 20:03 an IMCS problem (errors were reported from the IPKT task on the IMC-A), which seems to have affected the connection between the IMC-A and NCTRS-A, and caused intermittent losses of TM packets.

Execution of slew 01090038 failed at 20:22 due to this problem. After restart of the NCDUAdmin task on IMC-A the problem disappeared, subsequent problems with the STR mapping exacerbated the problem and caused the loss of another pointing. The impact was pointings 01090038, to 01090039 were lost.

Every day this week problems were experienced with the data consolidator on the IDDA machine. The problems start more or less regularly between 2000 and 2100. The origin of the problem is not yet understood. Additionally, on DoY 245 at 10:12 to 12:10 there were problems, but these were probably caused by a restart of the PSRV-B task on IDDA MADDS-B, which caused the TDRS application to restart. It was then also necessary to restart the TCON-RT on MADDS-B. The execution of the Timeline was not impacted by these effects, but the VC 7 data are not stored in the Archive in this period. They have to be played back from the station, which means an extra load on the system. The investigation is ongoing. A workaround procedure is currently in place, which does not avoid the problem but limits the impacts on the archive.

4.2 Ground Stations & Network

During this week, there was only two minor events relating to the ground stations:

- On DoY 243 at 02:20 the TC sequence DEBPG200 (to load the group 2 broadcast packet parameters) failed release due to an early TC drop by Redu prior to the handover to DSS-16, there was no impact.
- On DoY 248 at 10:08, the FEC at Redu was rebooted, this caused a short drop of TM from 10:34 till the reboot was completed at 10:40, there was no impact.

4.3 Science Ground Segment

4.3.1 ISOC

No ISOC Input has been provided

4.3.2 ISDC

There were several items concerning the link to the ISDC reported this week:

- On DoY 245 there were errors reported sending data to the ISDS.

5 Special Events

Nothing to report

6 Anomalies

There was one new and a repetition of an old S/C anomaly last week. The main problem regarding the ground segment concerns the regular stop of the data consolidator as mentioned in section 4.1.

A list of the pending anomalies since Launch is presented in the Appendix. New anomalies raised during the past week are listed below:

ARid	Date Occurrence	Subject	Segment	Element	Status
INT_SC - 63	01/09/2003	SPI DPE SW exceptions during spectra compression	Space	SPI	Pending
INT_SC - 64	01/09/2003	IREM anomaly: SEU # 7	Space	IREM	Pending
INT - 002432	29/08/2003	Late AOS from DSS-16 DR: G103276	Ground	NASA Sta.	Pending
INT - 002433	02/09/2003	Restart of PSRV task causes Consolidator and ISDS problems	Ground	IMCS	Pending
INT - 002434	05/09/2003	FOPGEN database tables column width inconsistency	Ground	FOPGEN	Pending

7 Future Milestones

A test environment will be established in order to investigate the problem with the data consolidation.

8 Appendix

The appendix includes various detailed information.

8.1 Overview of Revolutions

Revolution 108

The observations in revolution 108 consisted of an amalgamated raster dithering observation of SgrA* and the Galactic Center (RA 17:45:40.00; DEC -29:00:28.0) lasting ~55 hours followed by a raster dithering observation of SGR1806-20 (RA 18:08:40.20; DEC -20:24:47.4) which was performed for the remaining ~4 hours of observation time.

During these observations, all instruments were in their nominal science modes except for JEM-X1, which remained in Safe mode. The TM allocation during both observations was 134 IBIS, 98 SPI, 1 JEM-X1, 8 JEM-X2, 5 OMC.

Revolution 109

In revolution 109 a raster dithering observation of SGR1806-20 (RA 18:08:40.20; DEC -20:24:47.4) was performed throughout the available observation time (~61 hours).

Throughout this observation, SPI, IBIS and JEM-X2 were in their nominal science modes and JEM-X1 remained in Safe mode. OMC was in Fast Monitoring mode for the pointings in which the target of the observation was in the OMC Field of View, and in Normal mode for the other pointings. The TM allocation for this observation was 134 IBIS, 98 SPI, 1 JEM-X1, 8 JEM-X2, 5 OMC.

8.2 Consumables

8.2.1 Detailed Fuel Book-keeping

2003-08-17T12:16:39.000Z	175.4594	F	Automatic TM processing.
2003-08-17T22:19:28.000Z	175.4286	F	Automatic TM processing.
2003-08-18T22:43:31.000Z	175.3969	F	Automatic TM processing.
2003-08-20T12:02:23.000Z	175.3712	F	Automatic TM processing.
2003-08-21T22:30:18.000Z	175.3476	F	Automatic TM processing.
2003-08-23T11:47:42.000Z	175.3353	F	Automatic TM processing.
2003-08-24T22:54:49.000Z	175.3184	F	Automatic TM processing.
2003-08-26T11:35:33.000Z	175.2518	F	Automatic TM processing.
2003-08-27T22:41:45.000Z	175.2272	F	Automatic TM processing.
2003-08-29T11:18:45.000Z	175.1844	F	Automatic TM processing.
2003-08-30T22:03:53.000Z	175.1486	F	Automatic TM processing.
2003-09-01T11:02:13.000Z	175.1321	F	Automatic TM processing.
2003-09-02T22:10:57.000Z	175.1154	F	Automatic TM processing.
2003-09-04T05:17:56.000Z	175.0947	F	Automatic TM processing.
2003-09-04T10:47:16.000Z	175.0917	F	Automatic TM processing.

This report was generated Fri Sep 5 08:00:14 GMT 2003

8.3 Detailed Satellite Information

This section contains some detailed information concerning the various subsystems of the satellite and instruments.

8.3.1 AOCS Operations

SPI Operations AOCS operations were executed from the Automatic Timeline.

During this period, 57 Open Loop Slews, 100 Closed Loop Slews and 6 Momentum Bias were executed. 4 slews were missed or executed manually. This is equivalent to a 2.5%.

30/08/03 (Day of Year 242, Revolution 107)

Nothing to report.

31/08/03 (Day of Year 243, Revolution 107)

Nothing to report.

01/09/03 (Day of Year 244, Revolution 107-108)

Guide Star released due to the ACC STR SEU Filter: At 10:28:15, at the beginning of revolution 108, the guide star was released when the number of detected False Events exceeded the STR SEU Filter threshold of the ACC. At the time of its release, the guide had CCD coordinates (12077, 8039) and magnitude 7.5. An automatic mapping was done and a new guide was picked: (-9673, 1132), 8.5 Mi.

Slew missed due to loss of TM during maintenance operations on the IMCS: At 22:40, reboot of the IDDA machine caused an unexpected loss of telemetry (for more detail refer to section 4 of this report: "Ground Facilities"). Slew 01080012 was missed due to this problem. After TM was back, a manual slew was performed to the attitude of pointing 01080013 and the next slew in the timeline was manually updated.

02/09/03 (Day of Year 245, Revolution 108)

Nothing to report.

03/09/03 (Day of Year 246, Revolution 108)

Nothing to report.

04/09/03 (Day of Year 247, Revolution 108-109)

Nothing to report.

05/09/03 (Day of Year 248, Revolution 109)

Slows missed due to a Mission Control System problem: An IMCS problem (errors were reported from the IPKT task on the IMC-A), which seems to have affected the connection between the IMC-A and NCTRS-A, and caused intermittent losses of TM packets. Execution of slew 01090038 failed at 20:22 due to this problem. After restart of the NCDUAdmin task on IMC-A the problem disappeared and an attempt was made to rejoin the timeline by the FD Timeline recovery tool. However, this tool failed to reconstruct the attitude at the first attempt, due to insufficient stars in the STR FOV. FD were called out to generate commands to manually slew to the attitude of pointing 01090039 and perform the missed change-of-guide-star and reaction-wheel-bias operations. At 22:15, a manual slew was performed to the attitude of pointing 01090040, before its scheduled start time, therefore the pointing was unaffected. Pointings 01090038 and 01090039 were missed however.

8.3.2 SPI Operations

Cryo-cooler:

The coldplate temperature TM E0392 was nearing the upper warning limit, to avoid the need of intervention during the weekend the compressor strokes were adjusted in advance on 5th September at 12:07z (11sb more on compressors C&D).

The current setting is:

CDE1 A = 38
CDE1 B = 38
CDE2 A = 38
CDE2 B = 38

After an initial transient lasting 2 days, the temperature is currently leveling off at around 85.2K.

No plot is available due to a temporary unavailability of the data retrieval system at MOC (TDRS).

IASW/DPE:

Nothing to report.

ACS:

The following ACS FEE out of limits were detected during the last week:

TM E3275 S AS HV-ST L79 PARAM>SPEC at 2003.249.03.56.54z

TM E2160 S AS DG5V L10 PARAM>SPEC at 2003.251.17.27.34z

They both occurred well away from the automatic switch off/on of the ACS high voltages at belts entry/exit. Since the duration of the exception was very short (1 TM cycle) no contingency procedure was started.

This kind of spikes already occurred before, no explanation could be found by the SPI ACS specialists: it is not yet clear whether they are due to SEU or to actual instabilities/spikes in the power supply on-board the FEEs. An anomaly report will be opened to keep track of them, until we have a better explanation.

AFEE:

The following out of limit occurred in the AFEE high voltage control error signal:

TM E0356 U AF DCOUTPT L6 = -2.548 V (limit at -2.4V) at 2003.244.05.11.34z

The exception occurred well away from belts entry/exit and since its duration was very short (1 TM cycle) no contingency procedure was started.

This alarm has already been detected a few times before and was explained as due to heavy ionized particles hitting the Ge detector, thus depleting the electrical charge at high potential difference of the detector itself. When this occurs the high voltage power supply output takes a few seconds to re-establish the voltage level, hence the high error in the control signal.

DFEE, PSD:

Nothing to report

8.3.3 IBIS Operations

On DoY 243 at 11.12Z IBIS Histogram downloading stopped as indicated by the HK TM. The operator started the recovery action following the OR-92. At 11.18Z IBIS was reset back to Scientific Standard Mode and the downloading of the PICsIT Histograms was restarted. The anomaly is due likely to the coincidence of GSHF setting with the starting of the S5 (PICsIT Calibration Histogram) process, this occurred during the Station Handover from DSS16 to REDU at 08.04Z, and has happened on previous occasions.

On DoY 245 at 08.14Z a problem with PICsIT detector modules was reported. The sequence of the events was:

- 1) at 08.14Z SCC failed for the TM_para G5072-5088-5100-5104-5116-5132-5136-5148-5152-5164-5168-5180 (semimodules FIFO error flag)
- 2) at 08.17Z the SCC went back within limits, at the same time the PICsIT Real Time counters slowly went to zero counts and the Live Time Counters (dead time) increased progressively until 100%;
- 3) at 08.23Z all the PICsIT Real Time & Live Time counters went out of limits (0 cts/sec and 100 % respectively);
- 4) at 08.27 the OEM APID 1280 ID 132 CLASS 0 <<IBIS IASW HEPI RESYNCH>> flagging an HEPI resynchronization was received.
- 5) at 08.27Z after the generation of the above OEM the PICsIT Real Time and Live Time counters went back within limits.

This anomaly, was observed before, and is likely due to a loss of synchronization between the HEPI and the PICsIT modules. Investigations are on-going by the PIs.

There were a few reports during Belt passage the OEM ID 167 Class 2 <<IBIS1 PICsIT NOISY SEMIMODULE>> due to the PICsIT detectors being ON without the VETO anticoincidence system, as required by PIs. On DoY 244, the Noisy semi-modules were SM2-PDM 2 and SM2-PDM7, and on DoY 247, they were SM2-PDM 1 and SM2-PDM8.

The following OEM ID 179 Class 2 <<IBIS1 VETO COUNTER BOTTOM EXCEEDS ALERT VALUE>> was reported on many occasions. The relevant TM_para G6062 showed values inside limits therefore the problem was disregarded, as suggested by the nominal reaction to this OEM. The times when the OEM was observed were: DoY 244 at 01.41, DoY 245 at 19.46, DoY 246 at 02.01, 09.18, 11.55, 13.25, 19.42.

The following OEM ID 180 Class 2 <<IBIS1 VETO COUNTER LATERAL EXCEEDS ALERT VALUE>> was also reported on two occasions. The relevant TM_para G6063 showed values inside limits therefore the problem was disregarded, as suggested by the nominal reaction to this OEM. The times when the OEM was observed were: DoY 245 at 20.08, DoY 246 at 02.01.

On DOY 242 at 15.43Z, the OEM ID 183 Class 2 <<IBIS1 VETO +5V VECU VOLTAGE OUT OF RANGE>> was reported. The relevant TM_para G6106 showed values inside limits therefore the problem was disregarded, as suggested by the nominal reaction to this OEM.

On DOY 243 at 14.05Z, the OEM ID 184 Class 2 <<IBIS1 VETO +28V VDM/CDM VOLTAGE OUT OF RANGE>> was reported. The relevant TM_para G6107 showed values inside limits therefore the problem was disregarded, as suggested by the nominal reaction to this OEM.

8.3.4 JEM-X Operations

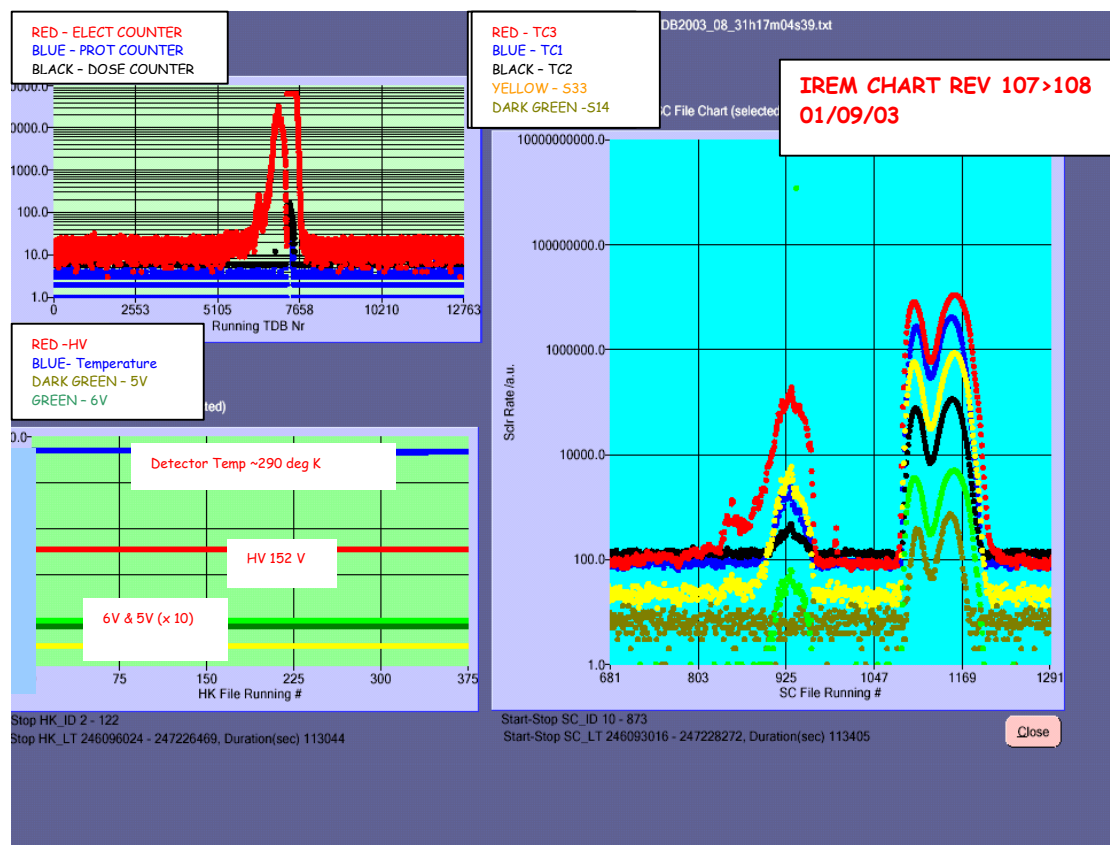
Nothing to report

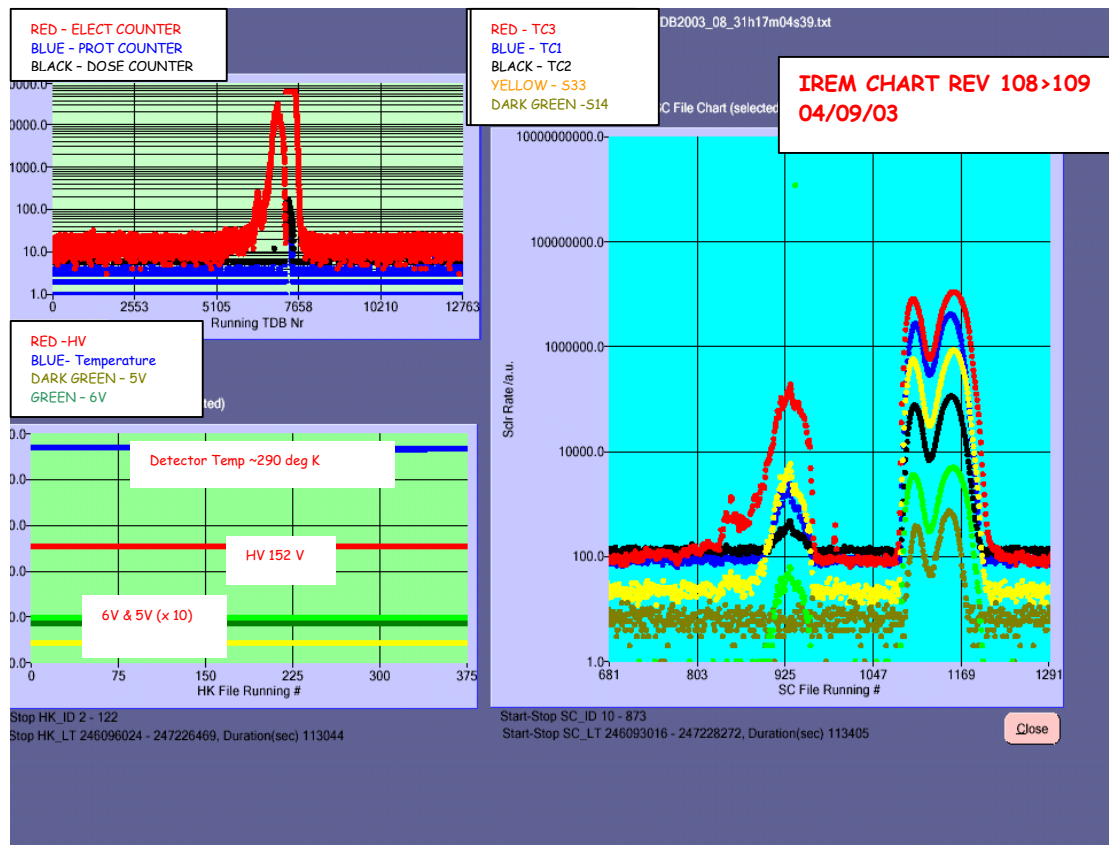
8.3.5 OMC Operations

On DoY 244 at 22:42 and DoY 248 at 20:03 due to TM reception problems internal to the MOC, pointings 01080012, 01080013 and 01090038, 01090039 respectively were lost.

8.3.6 IREM Operations

The following plots show the IREM count rates for the Belt passages in rev 108 and 109.





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8.4 List of Anomalies since Launch

The following tables presents the list of all identified anomalies for the Space and Ground segments, that have been registered since Launch and that are still pending. Though these Anomaly Reports still have a pending status most of the problems have been analysed and solutions or at least workarounds are already in place.

ARid	Date Occurrence	Subject	Segment	Element	Status
INT_SC - 21	13/11/2002	TM packet production lower than allocation.	Space	SPI	Pending
INT_SC - 52	05/06/2003	IBIS anomaly: Histogram production stopped due to coincidence of GSHF=1 with the start of S5 process	Space	IBIS	Pending
INT_SC - 53	05/06/2003	IBIS anomaly: Histogram production stopped due to the combination of PDUR setting with IASW observation duration calculation during long staring	Space	IBIS	Pending
INT_SC - 55	25/06/2003	SPI: Spikes in GeD count rates after HV switch on following 1st annealing	Space	SPI	Pending
INT_SC - 58	16/07/2003	IBIS: PICsIT PDMs counters SET to 0 during nominal operation (#3-4)	Space	IBIS	Pending
INT_SC - 60	31/07/2003	OMC (OMCAS) IASW Crashed	Space	OMC	Pending
INT_SC - 61	07/08/2003	SPI -ACS anomaly on FEE 57	Space	SPI	Pending
INT_SC - 62	12/08/2003	IREM anomaly : SEU #6	Space	IREM	Pending
INT_SC - 63	01/09/2003	SPI DPE SW exceptions during spectra compression	Space	SPI	Pending
INT_SC - 64	01/09/2003	IREM anomaly: SEU # 7	Space	IREM	Pending

ARid	Date Occurrence	Subject	Segment	Element	Status
INT - 002010	22/10/2002	Time correlation not applied correctly to time parameters in TM type 8 reports.	Ground	IMCS	Pending
INT - 002094	19/11/2002	TDRS does not work with supercommutated parameters	Ground	IMCS	Pending
INT - 002142	11/12/2002	TDRS Time Interval Setting	Ground	IMCS	Pending
INT - 002145	15/12/2002	Commands failing PTV for no reason	Ground	IMCS	Pending

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ARid	Date Occurrence	Subject	Segment	Element	Status
INT - 002212	29/01/2003	TDRS Interval-by-Interval TM Retrieval Problem	Ground	IMCS	Pending
INT - 002213	29/01/2003	SCOS 2000 Interval-by-Interval TM Retrieval Problem	Ground	IMCS	Pending
INT - 002234	24/02/2003	S2K unable to access READ ONLY disk in IDDA.	Ground	IMCS	Pending
INT - 002259	21/03/2003	TDRS: Retrieval log is Meaningless.	Ground	IMCS	Pending
INT - 002260	21/03/2003	Monitoring task Printout, sample time	Ground	IMCS	Pending
INT - 002262	21/03/2003	TDRS: FEN Retrievals containing status parameters always fail.	Ground	IMCS	Pending
INT - 002304	26/04/2003	IFTS MCS instance not working	Ground	IMCS	Pending
INT - 002307	06/05/2003	Wrong sign applied in the S/C delay in the correlator.	Ground	IMCS	Pending
INT - 002309	06/05/2003	Command release delayed	Ground	ESA Sta.	Pending
INT - 002311	06/05/2003	Drop in TM on MADDS-ISDSA link	Ground	ESA Sta.	Pending
INT - 002312	06/05/2003	Static PTV in "No Go" State for command A3189	Ground	IMCS	Pending
INT - 002318	09/05/2003	SUN worstation 128 rebooted itself.	Ground	IMCS	Pending
INT - 002314	12/05/2003	Wrong file displayed for Timeline Summary File	Ground	IMCS	Pending
INT - 002323	19/05/2003	Telemetry Drops from GoldStone (DR 109346)	Ground	NASA Sta.	Pending
INT - 002324	19/05/2003	Command A3084 not verified	Ground	IMCS	Pending
INT - 002328	27/05/2003	TDRS queries for some SPI parameters fail before DOY 2003.034	Ground	IMCS	Pending
INT - 002330	27/05/2003	NCTRS CPU goes to 85% for a problem related with tracking data	Ground	NCTRS	Pending
INT - 002331	27/05/2003	Monitoring Task ASCII Printout, not in ASCII format	Ground	IMCS	Pending
INT - 002334	30/05/2003	Bad telemetry from Goldstone - DSS-16	Ground	NASA Sta.	Pending
INT - 002336	02/06/2003	VC-0 telemetry not being received from Goldstone	Ground	NASA Sta.	Pending
INT - 002338	03/06/2003	Error sending data to consolidator (VC-7)	Ground	IMCS	Pending
INT - 002342	05/06/2003	Telemetry Drops from GoldStone DR: AR109393	Ground	NASA Sta.	Pending
INT - 002343	07/06/2003	Error sending data to ISDC	Ground	IMCS	Pending
INT - 002350	12/06/2003	Telemetry Drop from GoldStone DR: G102867	Ground	NASA Sta.	Pending
INT - 002357	20/06/2003	Error sending data to ISDS	Ground	IMCS	Pending
INT - 002358	22/06/2003	Error sending data to ISDC	Ground	IMCS	Pending
INT - 002359	22/06/2003	NCTRSA application restart	Ground	NCTRS	Pending
INT - 002363	23/06/2003	Error sending data to ISDC	Ground	IMCS	Pending

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ARid	Date Occurrence	Subject	Segment	Element	Status
INT - 002368	25/06/2003	IFTS Transfer on IMCS-A Failed	Ground	IMCS	Pending
INT - 002370	01/07/2003	Static PTV conditions handled incorrectly.	Ground	IMCS	Pending
INT - 002375	02/07/2003	Error sending data to ISDS	Ground	IMCS	Pending
INT - 002376	03/07/2003	Unexpected behavior of IMCA	Ground	IMCS	Pending
INT - 002379	03/07/2003	ISDS to ISDC link drop messages	Ground	IMCS	Pending
INT - 002388	16/07/2003	FDS failed to create TPF	Ground	FDS	Pending
INT - 002391	18/07/2003	TC problems following the TMP swap on DOY 197	Ground	ESA Sta.	Pending
INT - 002392	18/07/2003	Broadcast Packet Eclipse Entry/Exit Times Incorrect	Ground	FDS	Pending
INT - 002393	23/07/2003	Autostack crash on sun128	Ground	IMCS	Pending
INT - 002399	25/07/2003	IFRD: the CSM-IFRD task crashed on isdsa after new IMCS SW release (8.8).	Ground	IMCS	Pending
INT - 002401	31/07/2003	Link MADDS - ISDS toggled between connected and TM flow.	Ground	IMCS	Pending
INT - 002406	31/07/2003	Link MADDS/ISDS Disconnected	Ground	IMCS	Pending
INT - 002408	31/07/2003	Late TC Link from DSS-16	Ground	NASA Sta.	Pending
INT - 002410	31/07/2003	Strange Disconnection Messages.	Ground	NCTRS	Pending
INT - 002413	01/08/2003	CMD failure casued slew to be missed.	Ground	FDS	Pending
INT - 002414	06/08/2003	B-Chain not operational after OPSLAN work.	Ground	IMCS	Pending
INT - 002415	06/08/2003	TC Fails release - Spurious PTV Failure.	Ground	IMCS	Pending
INT - 002416	06/08/2003	TC fails release	Ground	IMCS	Pending
INT - 002417	06/08/2003	TCP Crash at DSS-16	Ground	NASA Sta.	Pending
INT - 002418	06/08/2003	Possible Hardware fault on INTRB	Ground	NCTRS	Pending
INT - 002419	06/08/2003	Drop in VC7	Ground	NASA Sta.	Pending
INT - 002422	18/08/2003	IMCS OOL display frozen	Ground	IMCS	Pending
INT - 002423	18/08/2003	Drop in VC-7 from DSS-16	Ground	NASA Sta.	Pending
INT - 002424	18/08/2003	NCTRS-A restart	Ground	NCTRS	Pending
INT - 002426	18/08/2003	TM drop due to non-scheduled line switch at JPL - DR:101291	Ground	NASA Sta.	Pending
INT - 002427	18/08/2003	Autostack crashed on SUN-122	Ground	IMCS	Pending
INT - 002429	21/08/2003	Telemetry loss to IMCS	Ground	NCTRS	Pending
INT - 002430	25/08/2003	Unexpected behaviour of the Command Verifier of IMCS-A	Ground	IMCS	Pending

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INT - 002431	27/08/2003	Telemetry loss from DSS-16 DR G103256 and G103258	Ground	NASA Sta.	Pending
INT - 002432	29/08/2003	Late AOS from DSS-16 DR: G103276	Ground	NASA Sta.	Pending
INT - 002433	02/09/2003	Restart of PSRV task causes Consolidator and ISDS problems	Ground	IMCS	Pending
INT - 002434	05/09/2003	FOPGEN database tables column width inconsistency	Ground	FOPGEN	Pending