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

INTEGRAL
Mission Report
INT-MOC-SYS-RP-1001-TOS-OF
No. 041
Week 27
07.07.03
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 28.06.03 until 04.07.03 (both dates inclusive) and covers the revolutions 86 to 88.

The summer eclipse season is proceeding nominally.

2 Summary of Activities

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

The targets of these revolutions were the Vela region (RA 08:52:45.57; DEC -44:35:07.2), eta-Carinae (RA 10:45:3.60; DEC -59:41:03.0) and the galactic plane. Activities performed included raster dithering and GPS 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.

The Thruster Torque Reciprocals and the AMD Thruster On Times of the RCS-A were updated with the results of the thruster calibration, which was performed on the 13 of June 2003.

One slew was missed and one slew was performed manually during revolution 88 due to a short drop in VC0 telemetry.

The fuel consumption over the period between 27/06/2003 and 04/07/2003 was 0.174Kg. The remaining propellant is in the order of 176.171 Kg on the 4th of July.

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 **2230W**. This means that there is no noticeable degradation of the solar arrays since launch.

30/06/2003 (DOY 181)

Eclipse passage:

Eclipse #3 of the current eclipse season.

Total Eclipse Duration: 1h 03m 51s

Umbra Duration: 1h 0m 07s

ECD measured DOD Battery 1 26.33% (6.32Ah)

ECD measured DOD Battery 2 26.08% (6.26Ah)

(Note DOD calculation assumes nominal battery capacity rating of 24Ah)

Recharge time battery 1 3h 45m

Recharge time battery 2 3h 43m

The eclipse passage was completely outside ground coverage, all indications (ECD and OBM TM / OEMs) are that this operation executed nominally. The last 20 minutes of battery recharge occurred after AOS REDU, the observed part of the battery recharge was nominal.

03/07/2003 (DOY 184)

Eclipse passage:

Eclipse #4 of the current eclipse season.

Total Eclipse Duration: 1h 07m 16s

Umbra Duration: 1h 03m 59s

ECD measured DOD Battery 1 27.29% (6.55Ah)

ECD measured DOD Battery 2 27.04% (6.49Ah)

(Note DOD calculation assumes nominal battery capacity rating of 24Ah)

Recharge time battery 1 3h 54m

Recharge time battery 2 3h 52m

The eclipse passage was completely outside ground coverage, all indications (ECD and OBM TM / OEMs) are that this operation executed nominally. The last 20 minutes of battery recharge occurred after AOS REDU, the observed part of the battery recharge was nominal.

06/07/2003 (DOY 187)

Eclipse passage:

Eclipse #5 of the current eclipse season.

Total Eclipse Duration: 1h 06m 28s

Umbra Duration: 1h 03m 24s

ECD measured DOD Battery 1 27.04% (6.49Ah)

ECD measured DOD Battery 2 26.75% (6.42Ah)

(Note DOD calculation assumes nominal battery capacity rating of 24Ah)

Recharge time battery 1 3h 51m

Recharge time battery 2 3h 49m

The eclipse passage was completely outside ground coverage, all indications (ECD and OBM TM / OEMs) are that this operation executed nominally. The last 25 minutes of battery recharge occurred after AOS REDU, the observed part of the battery recharge was nominal.

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 status is nominal.

The instrument is operating in photon-by-photon mode with Spectra telemetry disabled. The TM bandwidth assigned to SPI was 98 pkts/cycle for the reported period.

The Cryo-cooler is working nominally maintaining 85K temperature in the detector cold plate: The compressor A&B strokes were adjusted to compensate for the cold plate temperature drift over the past weeks.

The instrument management in the eclipse passages is done via the automatic timeline and is working well.

The detailed schedule for the 2nd SPI annealing has been finalized and here presented in the section 8.3.2.

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.

3.2.4 OMC

During the reporting period, OMC operations were interrupted once on day 184 when pointing 00880003 was missed.

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 problems during this week concentrated on the Control System and the NCTRS. The overall performance of the ground segment was sufficient to meet the system requirements, with all but one of the pointings achieved.

4.1 Mission Operations Centre

There were two anomalies that impacted the execution of the Timeline:

- On DoY 181 at 06:15 the IFTS was observed not to be running, it was restarted, and at 06:44 the situation was nominal, no impact.

- On DoY 184 at 18:43 there was a brief drop in VC0 data. This was possibly caused when network connected bad frames on NCTRS-A. The impact was that pointing 00880003 was lost.

The main problem area concerns the archiving and distribution of the TM data to ISDC. This is caused by an overload of the system due to the higher processing load, which is due to the increased TM data rate. The replacement of the concerned H/W by more powerful machines has been triggered.

4.2 Ground Stations & Network

During this week, there were the following problems related to the ground stations:

- On DoY 182 at 11:48 the TC was taken down to reboot the IFMS at Redu. It was hanging, and causing problems with the ranging. There was no impact.
- On DoY 184 at 16:10 there was a brief drop in VC0 TLM from Redu. The timeline was stopped, but by sending the outstanding commands manually it was possible to regain the timeline without any loss of science data.

4.3 Science Ground Segment

4.3.1 ISOC

No ISOC Input has been provided

4.3.2 ISDC

Periodic problems concerning the data-flow between the MOC and the ISDC in addition to that to the archiving system were observed for various different reasons during this reporting period. Procedures have been written to cover system re-starts, should they be required.

5 Special Events

The Eclipses 3, 4 and 5 of the current Eclipse season have passed.

6 Anomalies

The problems related to the ground segments are already mentioned in chapter 4.

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 - 002370	2003/07/01	Static PTV conditions handled incorrectly.	Ground	IMCS	Pending
INT - 002373	2003/07/01	IFMS Hung up at REDU	Ground	ESA Sta.	Pending
INT - 002374	2003/07/01	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002371	2003/07/02	PSS data mixed with S/C telemetry on DOY 2003.090.17.26.01	Ground	Procedure	Pending
INT - 002375	2003/07/02	Error sending data to ISDS	Ground	IMCS	Pending
INT - 002376	2003/07/03	Unexpected behaviour of IMCA	Ground	IMCS	Pending

7 Future Milestones

It is currently planned to implement an update of the Mission Control System S/W by mid July.

The implementation of the upgraded H/W is planned for end July. However, this depends on the availability of the relevant workstations.

The Eclipse season will finish on 18 July.

The SPI Annealing will start on 18 July and will last until end of July. Further details concerning the annealing schedule are provided in section 8.3.2 SPI Operations.

The Crab calibration campaign will start end of July and will last until mid August. It is planned to re-activate JEM-X 1 in the context of this calibration campaign for some of the observations.

It is foreseen to perform some further tests with the Engineering Module of the satellite that is located at ALENIA on 10 July in order to identify possible solutions for the problem related to the command verification using the CLCW that was introduced by the patch of the increased TM data rate.

8 Appendix

The appendix includes various detailed information.

8.1 Overview of Revolutions

Revolution 87

Revolution 87 began with 13 pointings of a GPS lasting ~9 hours. Following this, a raster dithering observation of the Vela region (RA 08:52:45.57; DEC -44:35:07.2) was then performed for the remaining ~50 hours of observation time.

Revolution 88

Revolution 88 consisted of a raster dithering observation of eta-Carinae (RA 10:45:3.60; DEC -59:41:03.0) lasting ~27 hours, followed by a raster dithering observation of the Vela region (RA 08:52:45.57; DEC -44:35:07.2) which was performed for the remaining ~33 hours of observation time.

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

8.2 Consumables

8.2.1 Detailed Fuel Book-keeping

2003-06-16T04:58:55.000Z	176.4508	F	Automatic TM processing.
2003-06-18T16:51:56.000Z	176.4350	F	Automatic TM processing.
2003-06-19T02:08:13.000Z	176.4140	F	Automatic TM processing.
2003-06-21T16:55:08.000Z	176.3957	F	Automatic TM processing.
2003-06-23T03:39:51.000Z	176.3755	F	Automatic TM processing.
2003-06-24T17:06:11.000Z	176.3576	F	Automatic TM processing.
2003-06-26T02:45:34.000Z	176.3446	F	Automatic TM processing.
2003-06-27T16:53:55.000Z	176.3294	F	Automatic TM processing.
2003-06-28T01:39:24.000Z	176.3012	F	Automatic TM processing.
2003-06-29T03:14:14.000Z	176.2810	F	Automatic TM processing.
2003-06-30T16:38:26.000Z	176.2441	F	Automatic TM processing.
2003-07-01T02:02:03.000Z	176.2270	F	Automatic TM processing.
2003-07-01T04:29:23.000Z	176.2072	F	Automatic TM processing.
2003-07-02T02:39:17.000Z	176.1975	F	Automatic TM processing.
2003-07-03T16:26:49.000Z	176.1705	F	Automatic TM processing.

This report was generated Fri Jul 4 08:00:15 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

AOCS operations were executed from the Automatic Timeline.

During this period, 52 Open Loop Slews, 123 Closed Loop Slews and 7 Momentum Bias were executed. 2 slews were lost or executed manually. This is equivalent to a 1%.

28/06/03 (Day of Year 179, Revolution 86)

Nothing to report.

29/06/03 (Day of Year 180, Revolution 86)

Nothing to report.

30/06/03 (Day of Year 181, Revolution 86-87)

Nothing to Report.

01/07/03 (Day of Year 182, Revolution 87)

Pitch error after Open Loop Slew: At 05:54:37, right after Open Loop Slew 00870019, the ACC started generating Pitch Error On-Event Messages. The guide star, which was picked by the ACC after the Open Loop Slew, had magnitude 8.00 and CCD Coordinates (3351, -20055). The “y” coordinate of the guide star repeatedly jumped by about +150 CCD units or 37 arc-seconds, which is above the Pitch Error threshold. Looking into the Mission Start Catalogue, it was clear that the ACC had picked the barycentre of the images of two nearby (angular separation) stars as the guide star. These stars were located at CCD locations (3322, -20054) and (3691, -20101) and had instrumental magnitudes 8.54 and 8.99 respectively. The generation of these Pitch Error OEMs continued until 06:06:34 when the Guide star was changed for the next Close Loop Slew. This was after the end of exposure 00870002 and while performing a set of slews to point to the Vela region, before the start of exposure 00870003.

02/07/03 (Day of Year 183, Revolution 87)

Nothing to report.

03/07/03 (Day of Year 184, Revolution 87-88)

Slews lost due to a short drop in telemetry: At 18:43, a short drop in VCO telemetry (at the time when the “Bad Frames” link was being added on the NCTRS-A) caused failure of AOCS commands and stopping of the AOCS commanding. Slew 00880003 was missed as a result. The Timeline recovery tool was used to manually slew to the attitude of pointing 00880004 and to manually update the parameters for slew 00880005.

04/07/03 (Day of Year 185, Revolution 88)

Update of RCS-A Torque Reciprocals and AMD Thruster On Times: The Thruster Torque Reciprocals and the AMD Thruster On Times for the RCS-A were updated with the new values that were computed from the results of the Thruster Calibration, performed on 13 June 2003. The TIM thresholds should also be updated as part of the Thruster Calibration operations. However, the update of the TIMs was not performed on this day because the operation is critical and should be performed prior to a ground station handover. The operation will be scheduled for early next week.

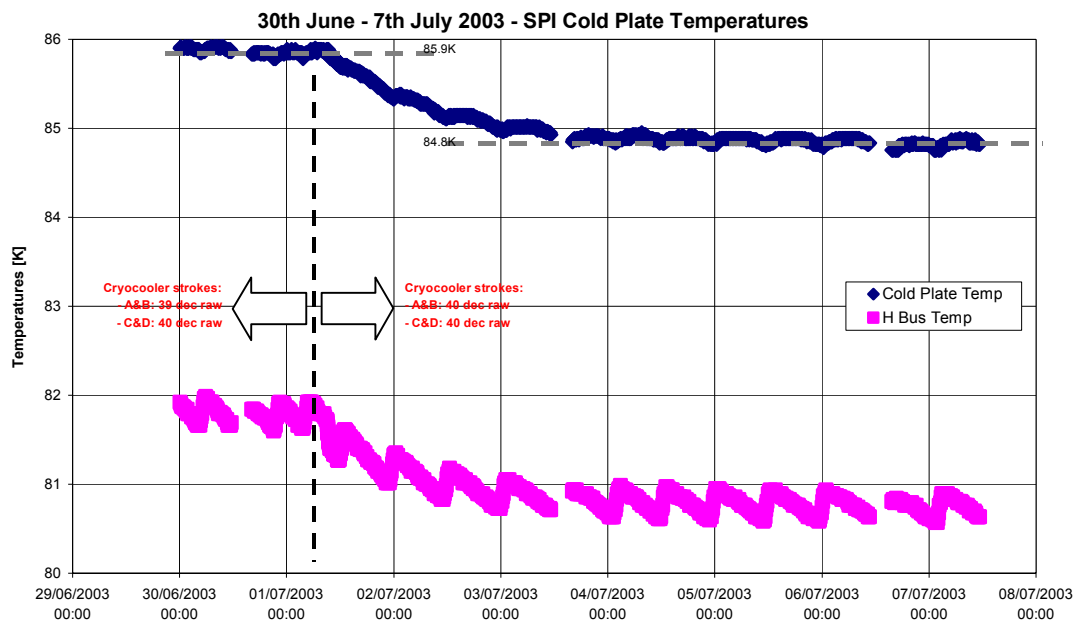
8.3.2 SPI Operations

Cryo-cooler:

The stroke of the compressors A&B was increased by 1LSB at 09:15Z on 7th July (the setting of the strokes is therefore 4x40dec raw).

All the parameters (current, phase, temperature, etc) of the 4 compressors are nominal after the stroke change. The cold plate temperature is now stabilizing at around 84.8K.

The stroke increase was necessary as the cold plate temp hit the high warning limit at 89.9K due to the accumulated effects of the temperature drift phenomenon over the past weeks.



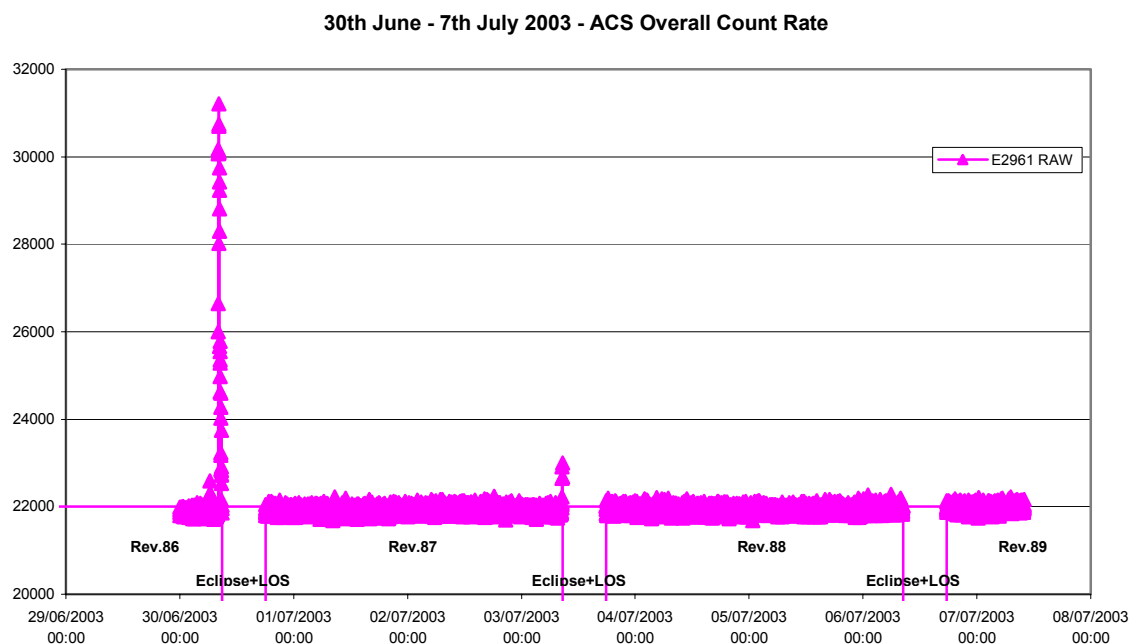
IASW/DPE:

The Anomaly Report issued last week about the spurious CSSW HK packets (INT-AR-2024) could be closed after further investigations at MOC: the problem was at ground segment level and was due to an operator error, which caused the data from the PSS (Portable Satellite Simulator) to be mixed for a few minutes with the real S/C data, on the 31st March, during a data flow test with Goldstone DSS21.

The SPI team recently reported a new anomaly in the TM: some packets down-linked are duplicated (same header and same body content) after a few hours. The anomaly is likely to be located in the ground segment and took place on a few occasions. Investigations are on going at MOC. An AR will be opened.

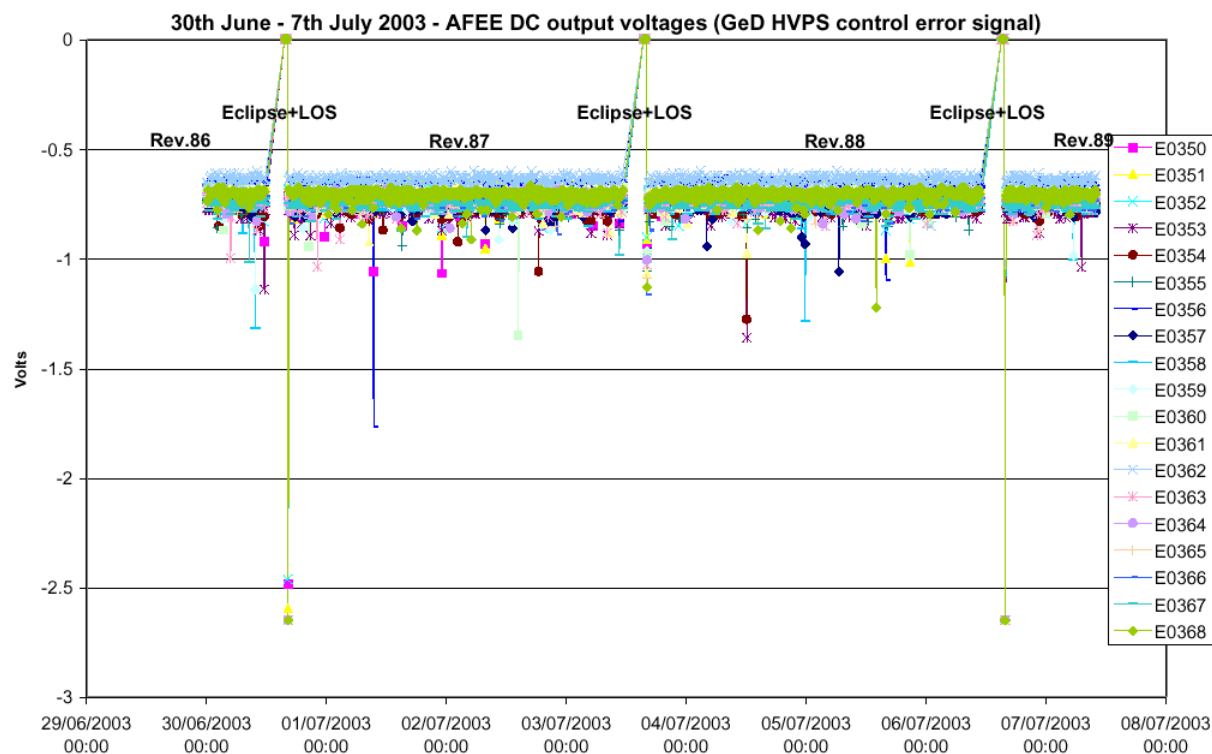
ACS:

The overall ACS count rate during the reporting period is shown here (sampling at 1/80s) : the peak that can be seen is at rad belt entry.



AFEE : As expected, most of the AFEE temperatures showed Out-Of-Limit for a few hours after reactivation post eclipse. The behaviour was expected and considered nominal.

The AFEE dc output signal is shown below for the reporting period. These signals are the HV power supply control error and give a measure of the health status of the Ge detectors (for instance no arching effects). The negative peaks that can be seen after the Eclipse are due to the HV power supply re-activations.



DFEE, PSD: Nothing to report

Activity Schedule of 2nd SPI Annealing :

The schedule shown below was agreed with CNES/CSER and ISOC. The instrument will start the annealing operations on 18th July at the rad belts entry of rev.92 and will terminate by 31st July at rad belts exit of rev.97.

The annealing ops will be preceded by a revolution in which the cold plate temperature changing from 85K → 90K will affect the science window. The change will take about 48hrs and will be commanded at rad belts entry of rev.91 on 15th July. The annealing ops will be followed by a revolution in which the initial 12 hrs of the science window could be affected by manual commanding of the SPI. This will be requested by the SPI PI to finalize the tuning of the instrument post annealing.

2nd SPI Annealing																					
ID	Task Name	Duration	Start	Resource Nam	14 Jul '03							21 Jul '03							28 Jul '03		
					Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We
3	85K-->90K Operations	72.2 hrs	15 Jul 07:42	PST[98 pkts]	07:42																
16	Start SPI Annealing	2.3 hrs	18 Jul 07:29	PST[5 pkts]																	
31	Warm up to Annealing Temperature	37.1 hrs	18 Jul 09:47	PST[5 pkts]																	
40	Annealing at 104degC	37 hrs	19 Jul 22:53	PST[5 pkts]																	
47	Stop SPI Annealing - Passive Cooling	88.2 hrs	21 Jul 11:53	PST[5 pkts]																	
57	Start Active Cooling	123.05 hrs	25 Jul 04:05	PST[5 pkts]																	
65	Active Cooling Fine Tuning	24.3 hrs	30 Jul 07:08	PST[5 pkts]																	
74	Camera Switch on & Performance Test	39.38 hrs	28 Jul 15:08	PST[98 pkts]																	
94	Performance Optimisation Window @85K	12 hrs	30 Jul 15:30	PST[98 pkts]																	

8.3.3 IBIS Operations

There were a few reports, during the Belt passage of the OEM ID 167 Class 2 <<IBIS1 PICsIT NOISY SEMIMODULE>> due to the PICsIT detectors being ON without the VETO anticoincidence system, as it required by PIs.

On **DoY 2003.179 (28/06)** at 12.34Z the OEM ID 183 Class 2 <<IBIS1 VETO +5V VECU VOLTAGE OUT OF RANGE>> was reported. The relevant TM_para G6106 showed a value inside limits and therefore the problem was disregarded, as suggested by the nominal reaction to this OEM.

On **DoY 2003. 180 (29/06)** at 08.04Z the following TM parameters G6062-63 showed OOLs for short periods. This was due to an earlier radiation belt entry at 09:00Z when the instrument autonomously went into safe configuration and no further action was taken.

On **DoY 2003. 185 (04/07)** at 12.04Z 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 and 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

During this period only 1 out of the 162 originally planned OMC image acquisitions was missed.

28/06/2003, DOY 179, Revolution 86

Nothing to report.

29/06/2003, DOY 180, Revolution 86

Nothing to report.

30/06/2003, DOY 181, Revolution 86-87

Nothing to report.

01/07/2003, DOY 182, Revolution 87

Nothing to report.

02/07/2003, DOY 183, Revolution 87

Nothing to report.

03/07/2003, DOY 184, Revolution 87-88

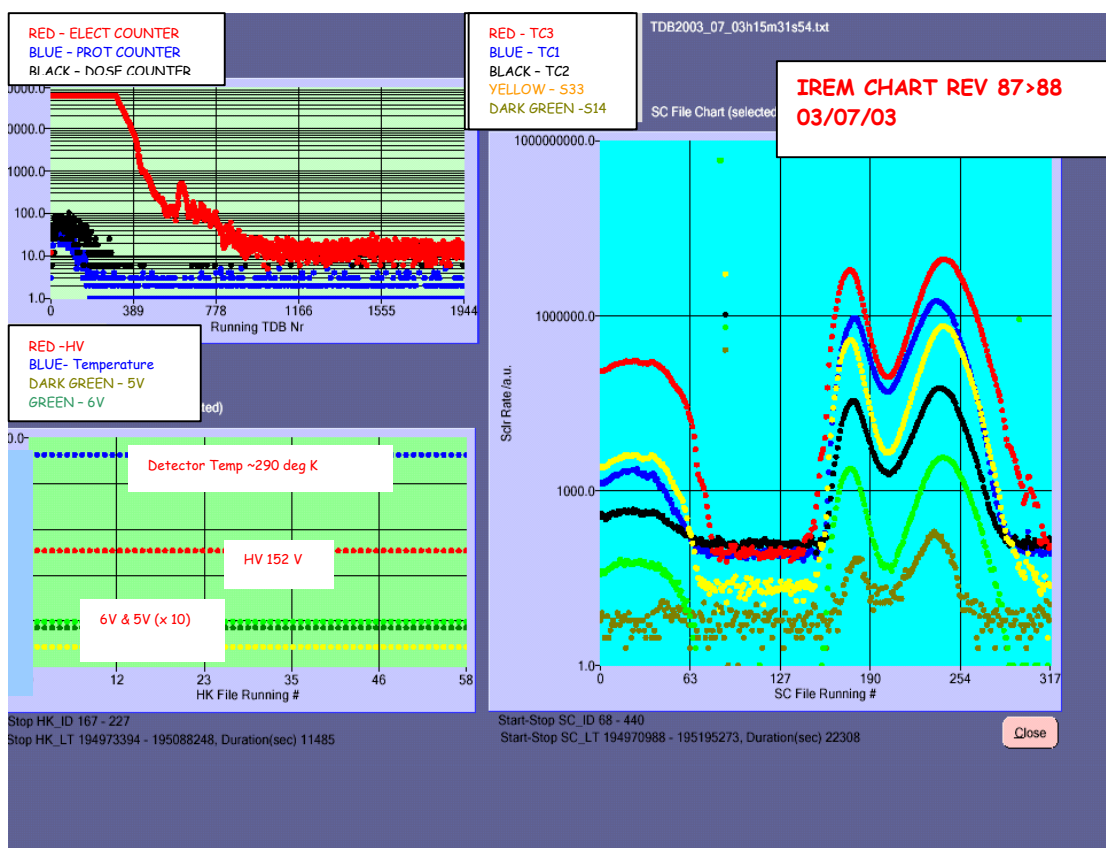
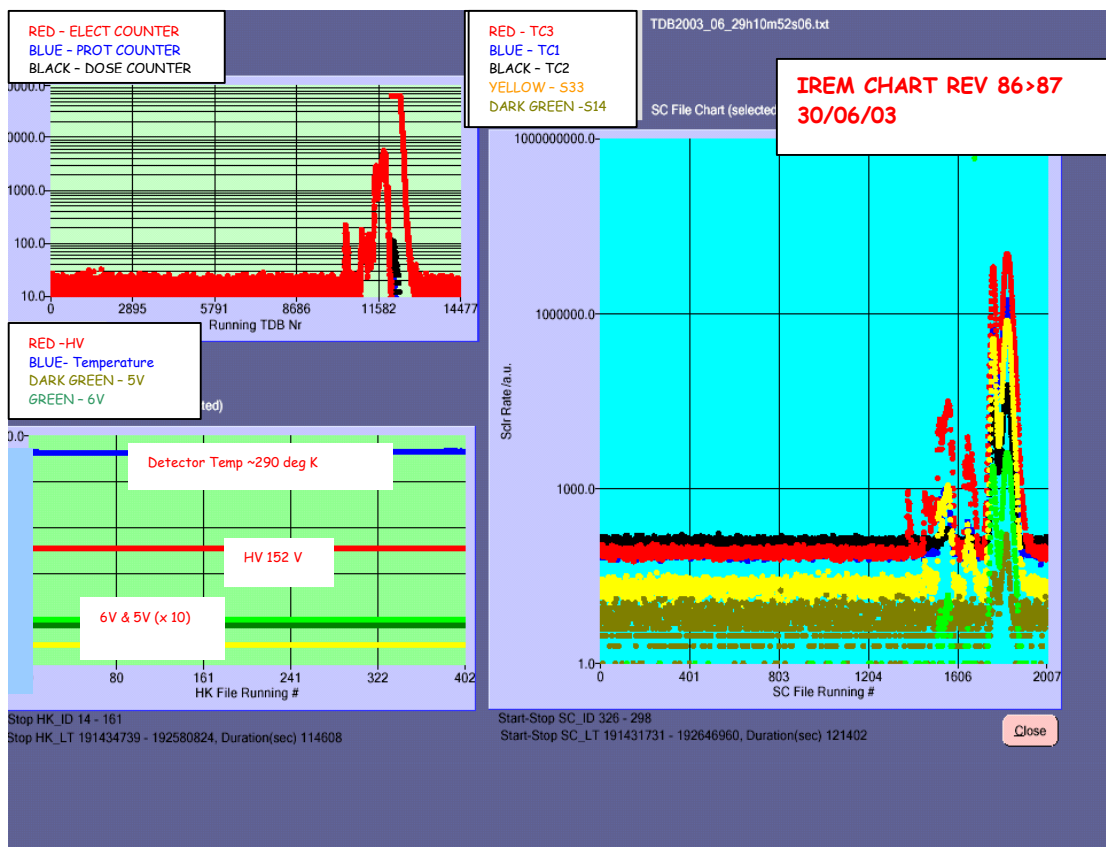
Pointing 00880003 was missed due to link problems.

04/07/2003, DOY 185, Revolution 88

Nothing to Report.

8.3.6 IREM Operations

The following plots of the IREM count rates for the radiation belts passages are from rev 86 and 87.



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8.4 List of Anomalies since Launch

The following table presents the list of all identified anomalies that have been registered since Launch and that are still pending. It should be noted that the list includes each incidence of an anomaly. This means that there are several entries that are caused by one anomaly. 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 - 002010	2002/10/22	Time correlation not applied correctly to time parameters in TM type 8 reports.	Ground	IMCS	Pending
INT - 002066	2002/11/13	Data routing to ISDS	Ground	I/F to SGS	Pending
INT - 002082	2002/11/13	TM packet production lower than allocation.	Space	SPI	Pending
INT - 002094	2002/11/19	TDRS does not work with super-commutated parameters	Ground	IMCS	Pending
INT - 002142	2002/12/11	TDRS Time Interval Setting	Ground	IMCS	Pending
INT - 002145	2002/12/15	Commands failing PTV for no reason	Ground	IMCS	Pending
INT - 002212	2003/01/29	TDRS Interval-by-Interval TM Retrieval Problem	Ground	IMCS	Pending
INT - 002213	2003/01/29	SCOS 2000 Interval-by-Interval TM Retrieval Problem	Ground	IMCS	Pending
INT - 002217	2003/02/06	TC link drop	Ground	NASA Sta.	Pending
INT - 002219	2003/02/10	IBIS: PICsIT PDMs counters SET to 0 (twice) during nominal operation	Space	IBIS	Pending
INT - 002233	2003/02/24	Time Calibration not Coherent among Ground Stations	Ground		Pending
INT - 002234	2003/02/24	S2K unable to access READ ONLY disk in IDDA.	Ground	IMCS	Pending
INT - 002235	2003/02/25	Too narrow window for RMU cal in PSF of rev 49	Ground	I/F to SGS	Pending
INT - 002242	2003/03/02	TM & TC Drop on DSS 16	Ground	NASA Sta.	Pending
INT - 002246	2003/03/05	Loss of Telemetry from DSS16	Ground	NASA Sta.	Pending
INT - 002253	2003/03/10	RX1 and RX2 Locked at the same time	Ground	NASA Sta.	Pending
INT - 002255	2003/03/10	Late AOS at DSS-24	Ground	NASA Sta.	Pending
INT - 002256	2003/03/14	Late AOS at DSS-16	Ground	NASA Sta.	Pending
INT - 002257	2003/03/17	Late AOS at DSS-24	Ground	NASA Sta.	Pending

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INT - 002259	2003/03/21	TDRS: Retrieval log is Meaningless.	Ground	IMCS	Pending
INT - 002260	2003/03/21	Monitoring task Printout, sample time	Ground	IMCS	Pending
INT - 002262	2003/03/21	TDRS: FEN Retrievals containing status parameters always fail.	Ground	IMCS	Pending
INT - 002267	2003/03/25	Drop in link from ISDS to ISDC	Ground	I/F to SGS	Pending
INT - 002273	2003/03/27	Drop in VC7 via REDU	Ground	ESA Sta.	Pending
INT - 002279	2003/03/29	Telemetry lost from DSS-16. DR N109197	Ground	NASA Sta.	Pending
INT - 002295	2003/04/15	Telemetry Drops from Goldstone	Ground	NASA Sta.	Pending
INT - 002298	2003/04/20	ISDS - ISDC link outage	Ground	I/F to SGS	Pending
INT - 002299	2003/04/21	Telemetry loss from DSS-24	Ground	NASA Sta.	Pending
INT - 002302	2003/04/24	Telemetry loss via DSS-16 due to RFI	Ground	NASA Sta.	Pending
INT - 002304	2003/04/26	IFTS MCS instance not working	Ground	IMCS	Pending
INT - 002305	2003/05/04	Telemetry Drops from Goldstone. DR GI02720	Ground	NASA Sta.	Pending
INT - 002308	2003/05/05	Loss of TM/TC link due to hit on line	Ground	COMMS	Pending
INT - 002307	2003/05/06	Wrong sign applied in the S/C delay in the correlator.	Ground	IMCS	Pending
INT - 002309	2003/05/06	Command release delayed	Ground	ESA Sta.	Pending
INT - 002311	2003/05/06	Drop in TM on MADDS-ISDSA link	Ground	ESA Sta.	Pending
INT - 002312	2003/05/06	Static PTV in "No Go" State for command A3189	Ground	IMCS	Pending
INT - 002318	2003/05/09	SUN workstation 128 rebooted itself.	Ground	IMCS	Pending
INT - 002314	2003/05/12	Wrong file displayed for Timeline Summary File	Ground	IMCS	Pending
INT - 002323	2003/05/19	Telemetry Drops from Goldstone (DR 109346)	Ground	NASA Sta.	Pending
INT - 002324	2003/05/19	Command A3084 not verified	Ground	IMCS	Pending
INT - 002326	2003/05/21	Hardware failure at DSS-16 during handover DR: GI02772	Ground	NASA Sta.	Pending
INT - 002329	2003/05/24	Late handover to DSS-16. DR: GI02803	Ground	NASA Sta.	Pending
INT - 002327	2003/05/26	CLCW: change in ratio of the number of VC-0 / VC-7 CLCWs in VC-0 TM Frames	Space	Platform	Pending
INT - 002328	2003/05/27	TDRS queries for some SPI parameters fail before DOY 2003.034	Ground	IMCS	Pending
INT - 002330	2003/05/27	NCTRS CPU goes to 85% for a problem related with tracking data	Ground	NCTRS	Pending
INT - 002331	2003/05/27	Monitoring Task ASCII Printout, not in ASCII format	Ground	IMCS	Pending
INT - 002334	2003/05/30	Bad telemetry from Goldstone - DSS-16	Ground	NASA Sta.	Pending
INT - 002336	2003/06/02	VC-0 telemetry not being received from Goldstone	Ground	NASA Sta.	Pending

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INT - 002333	2003/06/03	TM acquisition from MRU-B no longer possible.	Ground	Simulator	Pending
INT - 002337	2003/06/03	Late handover to DSS-16 due to uplink bind problem	Ground	NCTRS	Pending
INT - 002338	2003/06/03	Error sending data to consolidator (VC-7)	Ground	IMCS	Pending
INT - 002339	2003/06/05	IREM anomaly: SEU (#3)	Space	IREM	Pending
INT - 002340	2003/06/05	IBIS anomaly: Histogram production stopped due to coincidence of GSHF=1 with the start of S5 process	Space	IBIS	Pending
INT - 002341	2003/06/05	IBIS anomaly: Histogram production stopped due to the combination of PDUR setting with IASW observation duration calculation during long staring	Space	IBIS	Pending
INT - 002342	2003/06/05	Telemetry Drops from Goldstone DR: AR109393	Ground	NASA Sta.	Pending
INT - 002343	2003/06/07	Error sending data to ISDC	Ground	IMCS	Pending
INT - 002344	2003/06/08	Telemetry drops from REDU	Ground	ESA Sta.	Pending
INT - 002345	2003/06/09	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002350	2003/06/12	Telemetry Drop from Goldstone DR: G102867	Ground	NASA Sta.	Pending
INT - 002351	2003/06/12	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002352	2003/06/14	Late handover to DSS-16, DR G102878 and G102879	Ground	NASA Sta.	Pending
INT - 002353	2003/06/14	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002355	2003/06/17	VC7 Frames received with a wrong order by ISDC	Ground	ESA Sta.	Pending
INT - 002356	2003/06/19	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002357	2003/06/20	Error sending data to ISDS	Ground	IMCS	Pending
INT - 002358	2003/06/22	Error sending data to ISDC	Ground	IMCS	Pending
INT - 002359	2003/06/22	NCTRSA application restart	Ground	NCTRS	Pending
INT - 002360	2003/06/22	Loss of telemetry due to NCTRSA and IMCSA errors	Ground	NCTRS	Pending
INT - 002361	2003/06/23	Late handover to DSS-16, DR pending	Ground	NASA Sta.	Pending
INT - 002362	2003/06/23	NCTRSA application restart	Ground	NCTRS	Pending
INT - 002363	2003/06/23	Error sending data to ISDC	Ground	IMCS	Pending
INT - 002364	2003/06/24	NCTRSA application restart	Ground	NCTRS	Pending
INT - 002365	2003/06/24	Telemetry Drops from Goldstone. DR G102942	Ground	NASA Sta.	Pending
INT - 002367	2003/06/25	SPI: Spikes in GeD count rates after HV switch on following 1st annealing	Space	SPI	Pending
INT - 002368	2003/06/25	IFTS Transfer on IMCS-A Failed	Ground	IMCS	Pending
INT - 002369	2003/06/26	Problems to establish VC0 and VC7 links on NCTRS-A	Ground	NCTRS	Pending
INT - 002370	2003/07/01	Static PTV conditions handled incorrectly.	Ground	IMCS	Pending

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INT - 002373	2003/07/01	IFMS Hung up at REDU	Ground	ESA Sta.	Pending
INT - 002374	2003/07/01	Telemetry drop from Redu	Ground	ESA Sta.	Pending
INT - 002371	2003/07/02	PSS data mixed with S/C telemetry on DOY 2003.090.17.26.01	Ground	Procedure	Pending
INT - 002375	2003/07/02	Error sending data to ISDS	Ground	IMCS	Pending
INT - 002376	2003/07/03	Unexpected behaviour of IMCA	Ground	IMCS	Pending