Draft report based on analysis of EGOI data using the Daily Reports and ERGO software system of the PCS

GOME Operations during May 2003

Date	operations	remark
01/05/03	nominal	start of sun calibration: 11:07:22.51
02/05/03	nominal	start of sun calibration: 10:35:42.95
03/05/03	nominal	start of sun calibration: 10:03:57.38
04/05/03	nominal anomalous long dump	start of sun calibration: 12:53:27.23
05/05/03	nominal	start of sun calibration: 12:21:47.67
06/05/03	nominal Polar View timeline ended	start of sun calibration: 11:50:05.61
07/05/03	nominal anomalous long dump	start of sun calibration: 11:18:20.03
08/05/03	nominal	start of sun calibration: 10:46:40.47
09/05/03	nominal	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
10/05/03	nominal	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
11/05/03	nominal	start of sun calibration: 12:32:48.95
12/05/03	nominal	start of sun calibration: 12:01:09.38
13/05/03	nominal	start of sun calibration: 11:29:29.81
14/05/03	nominal	start of sun calibration: 10:57:43.32
15/05/03	nominal	start of sun calibration: 10:26:03.75
16/05/03	nominal Payload switch off start: 10:15:43	no solar calibration data available due to PL switch off
17/05/03	Payload switch off	no solar calibration data available due to PL switch off
18/05/03	Payload switch off	no solar calibration data available due to PL switch off
19/05/03	Payload switch off	no solar calibration data available due to PL switch off
20/05/03	Payload switch off stop:	start of sun calibration: 11:08:53.34 (TST44 with warm detectors T = 255K)
21/05/03	nominal	start of sun calibration: 10:37:13.89
22/05/03	nominal GOME switch-off 08:41:46 - 10:32:31	start of sun calibration: 13:26:48.97 (TST44 with warm detectors T = 261K)
23/05/03	nominal	start of sun calibration: 12:55:03.88
24/05/03	nominal	start of sun calibration: 12:23:29.07
25/05/03	nominal	start of sun calibration: 11:51:49.50
26/05/03	nominal	start of sun calibration: 11:20:03.93
27/05/03	nominal	start of sun calibration: 10:48:24.36
28/05/03	nominal monthly calibration performed during Orbits 42361 - 42366 two Orbits in Nadir Static View 42358, 42359	start of sun calibration: 10:16:44.80

29/05/03	nominal	start of sun calibration: 13:06:18.45
30/05/03	nominal anomalous long dump	start of sun calibration: 12:34:38.87
31/05/03	nominal	start of sun calibration: 12:03:00.03

Anomalies:

single event upsets (SEU): none

list of datagaps:

Date	Orbit No.	duration	reason
03/05/03	42001	07:00:12 - 08:31:38	gap at KS
04/05/03	42018	12:19:03 - 12:20:40	gap at KS due to the execution of timeline GMN11 (switch-off/switch-on in time-tag)
04/05/03	42016	09:04:13.14 - 09:18:35	anomalous long science dump at KS no data processing possible
06/05/03	42044	07:54:29 - 07:56:05	gap at KS due to the execution of timeline GMN11 (switch-off/switch-on in time-tag) usually planned only on days 04, 14, 24 each month
06-07/05/03	42054	23:30:57(06/05/03) - 00:51:08(07/05/03)	data gap at GS
07/05/03	42065	19:13:06 - 19:27:28	anomalous long science dump at KS no data processing possible
08/05/03	42074	09:32:20 - 11:06:49	many small gaps at KS
12/05/03	42128	05:06:54 - 05:24:04	small gaps at PS
13/05/03	42140	23:58:06 - 23:58:16 00:05:21 - 00:05:24 00:05:25 - 00:05:31 01:05:12 - 01:05:14 01:26:50 - 01:26:51 01:27:21 - 01:27:23 01:29:32 - 01:29:33	small gaps at GS
14/05/03	42160	10:23:20 - 10:24:56	gap at KS due to the execution of timeline GMN11 (switch-off/switch-on in time-tag)
15/05/03	42178	17:08:28 - 17:10:03	small gap at KS
16/05/03	42189	10:15:43	Payload unavailability due to data bus reconfiguration (see unavailabilty fax ER2-UNA-2003/013)
16-20/05/03	42189 - 42246	10:15:43 (16/05/2003) - 09:40:24 (20/05/2003)	Payload unavailability due to data bus reconfiguration (see unavailabilty fax ER2-UNA-2003/013-015)
22/05/03	42273-42275	08:41:46 - 10:32:31	data gap due to GOME/ATSR was inhibited due to ATSR restart (see unav. fax, ESOC, ER-UNA-2003/016-17) note from 10:32:31 to 13:20 GOME was in idle mode
23/05/03	42291	13:13:11 - 13:46:13	data gap at KS due to missing file EGOI_030523KSEP3000.E2

24/05 /03	42304	11:49:00 - 11:50:36	gap at KS due to the execution of timeline GMN11 (switch-off/switch-on in time-tag)
25/05 /03	42314	03:32:12 - 05:15:05	many small gaps at PS
25/05 /03	42317	09:25:23 - 09:59:53	gap at KS due to missing file EGOI_030525KSEP3052.E2;1
25/05 /03	42320	13:49:30 - 15:27:19	KS orbit missing
25/05 /03	42322	17:05:51 - 18:45:00	due to a RA recovery GOME was unavailable due to PL synchronis. unavailability fax ER2-UNA 2003/018
26/05 /03	42331	09:48:48 - 09:48:49 09:55:36 - 09:55:37 10:00:40 - 10:01:30	few small gaps at KS
26/05 /03	42332	11:28:18 - 11:28:23 11:40:20 - 11:40:46	few small gaps at KS
28-29 /05 /03	42369	23:41:31 - 23:41:37 23:53:42 - 23:53:48 00:13:49 - 00:14:16 00:14:25 - 00:14:37 00:14:39 - 00:14:42	small gaps at GS
29/05 /03	42372	06:17:12 - 06:28:17	gap at PS
30/05 /03	42389	10:25:51 - 10:40:14	anomalous long science dump at KS no data processing possible
31/05 /03	42401	05:26:20 - 05:27:50 06:23:32 - 06:24:20	gaps at KS
31/05 /03	42399	03:05:33 - 03:07:10	gap at KS due to the execution of timeline GMN11 (switch-off/switch-on in time-tag) usually planned only on days 04, 14. 24 each month

Lamp Failures: none

cooler switchings:

Date	coolers off/on	maximum detector warm up temperature [Kelvin]
04/05/03	12:19:03 off 12:20:54 on	FPA 1: 244.4 FPA 2: 245.0 FPA 3: 244.8 FPA 4: 244.9
06/05/03	07:54:29 off 07:56:19 on	FPA 1: 244.6 FPA 2: 245.1 FPA 3: 245.0 FPA 4: 244.9
14/05/03	10:23:20 off 10:25:10 on	FPA 1: 244.8 FPA 2: 245.0 FPA 3: 245.0 FPA 4: 244.9

16-20/05/03	10:15:43 (16/05/2003) off 09:40:24 (20/05/2003) on	FPA 1: 263.4 FPA 2: 264.5 FPA 3: 264.2 FPA 4: 264.6
22/05/03	08:41:46 off 13:32:41 on	FPA 1: 265.1 FPA 2: 265.5 FPA 3: 265.3 FPA 4: 265.8
24/05/03	11:49:00 off 11:50:49 on	FPA 1: 244.5 FPA 2: 245.0 FPA 3: 244.8 FPA 4: 244.8
31/05/03	11:49:00 off 11:50:49 on	FPA 1: 244.8 FPA 2: 245.1 FPA 3: 244.8 FPA 4: 244.9

timeline interruptions: (operations in nadir static view): none

Narrow Swath Timeline

Date	Orbit No.	Duration	remark
04-05/04/03	42020 - 032	~14:00 (04/05/03) - ~12:00 (05/05/03)	Narrow Swath Timeline GMNNOT41 executed
14-15/05/03	42161 - 175	~12:30 (14/05/03) - ~10:00 (15/05/03)	Narrow Swath Timeline GMNNOT41 executed
24-25/05/03	42306 - 319	~14:00 (24/05/03) - ~11:30 (25/05/03)	Narrow Swath Timeline GMNNOT41 executed

others:

Date	Orbit No.	Duration	remark
14/03/03 - 06/05/03	41284 - 42041	~04:00 (14/03/03) -~01:30 (06/05/03)	GOME North Polar View operations ended on day 06/05/2003; start of operations was day 14/03/2003