GOME Operations for February 2004

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

GOME Operations during Febuary 2004

Date	operations	remark
01/02/04	data available within visibility of groundstations	start of sun calibration: 13:23:29.45
02/02/04	data available within visibility of groundstations	start of sun calibration:12:51:49.91
03/02/04	data available within visibility of groundstations	start of sun calibration:12:20:04.37
04/02/04	data available within visibility of groundstations	start of sun calibration:11:48:21.41
05/02/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
06/02/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
07/02/04	data available within visibility of groundstations	start of sun calibration:10:13:15.39
08/02/04	data available within visibility of groundstations	start of sun calibration: 13:02:43.07
09/02/04	data available within visibility of groundstations	start of sun calibration: 12:30:57.53
10/02/04	SEU data available within visibility of groundstations	start of sun calibration: 11:59:17.99
11/02/04	SEU data available within visibility of groundstations	start of sun calibration: 11:27:32.45
12/02/04	SEU data available within visibility of groundstations	start of sun calibration: 10:55:52.92
13/02/04	SEU(2) data available within visibility of groundstations	start of sun calibration: 10:24:07.38
14/02/04	SEU (2) data available within visibility of groundstations	start of sun calibration: 13:13:36.62
15/02/04	SEU data available within visibility of groundstations	start of sun calibration: 12:41:49
16/02/04	SEU data available within visibility of groundstations	no solar calibration data available
17/02/04	data available within visibility of groundstations	start of sun calibration: 11:38:26.80
18/02/04	data available within visibility of groundstations	start of sun calibration: 11:06:41.25
19/02/04	data available within visibility of groundstations	start of sun calibration: 10:35:01.71
20/02/04	data available within visibility of groundstations	start of sun calibration: 13:24:29.37
21/02/04	data available within visibility of groundstations	start of sun calibration: 12:52:43.82
22/02/04	data available within visibility of groundstations	start of sun calibration: 12:20:58.27
23/02/04	data available within visibility of groundstations	start of sun calibration: 11:49:12.72
24/02/04	data available within visibility of groundstations	start of sun calibration: 11:17:30.70
25/02/04	data available within visibility of groundstations	start of sun calibration: 10:45:51.15
26/02/04	data available within visibility of groundstations	start of sun calibration: 10:14:05.58
27/02/04	data available within visibility of groundstations	start of sun calibration: 13:03:33.22
28/02/04	Lamp Failures (no. 90 - 91) data available within visibility of groundstations monthly calibration performed during Orbits 46314 - 46319 two Orbits in Nadir Static View 46311, 46312	start of sun calibration: 12:31:47.65

29/02/04 data available within visibility of groundstations start of sun calibration: 12:00:02.09

Anomalies:

single event upsets (SEU):

Date	reason
10 - 14/02/2004	on-board software problem caused anomaly (orbits 46051 - 46112); 04:57:42 (10/02/04) - ~10:53 (08/01/04) Level 0: Instrument status 1A: 3xNACK set continuously (usually not set)
13 - 14/02/2004	on-board software problem caused anomaly (orbits 46099 - 46112); 14:00 (13/02/2004) - 11:56:18 (14/02/2004) - instrument swath not nominal: Nadir Static View instead of 960 km swath - channel summation: intensity higher than usual for channels 1,2 & 3
15-16/02/2004	on-board software problem caused anomaly (orbits 46120-46141); 00:33 (15/02/2004) - 12:08 (16/02/04) Level 0: - INSTRUMENT STATUS1A: "Normal OPS"-flag not set, "Checksum Failed"-flag always set "FPA Latch-Up"-flag always set "RTM Latch-UP"-flag always set - INSTRUMENT STATUS1B: "LED Drivers1"-flag always set "CALIBRATION UNIT"-flag always set "MIRROR HEATER 1"-flag always set "MIRROR HEATER 2"-flag always set "COVER ERROR"-flag always set "COVER CLOSED"-flag never set "COVER OPEN"-flag never set - INSTRUMENT STATUS 2: COOLERS 1 & 3 flag set to 253K (however the temperatures are nominal)

list of datagaps:

Date	Orbit No.	duration	reason

01/02/04	45929	16:47:22 - 17:00:33	gap at GS
01/02/04	45931	20:05:55 - 20:17:04	gap at PS
01/02/04	45933	23:00:44 - 23:05:55	gap at MS
02/02/04	45937	06:09:15 - 06:15:17	gap at KS
05/02/04	45980	06:14:50 - 06:21:16	gap at KS
06/02/04	45995	07:22:36 - 07:33:24	gap at KS
08/02/04	46032	21:11:13 - 21:24:27	gap at KS
09/02/04	46034	00:32:57 - 00:39:49	gap at GS
09/02/04	46037	05:49:59 - 05:52:29	gap at KS
09/02/04	46038	07:14:11 - 07:20:56	gap at PS
12/02/04	46080	05:35:45 - 05:49:05	gap at PS
12/02/04	46080	05:55:25 - 05:59:51	gap at KS
12/02/04	46088	19:20:10 - 19:33:02	gap at PS
12/02/04	46089	21:00:30 - 21:08:26	gap at PS
13/02/04	46091	00:12:47 - 00:16:50	gap at KS
14/02/04	46117	19:57:20 - 20:08:52	gap at PS
14/02/04	46119	23:05:52 - 23:15:15	gap at KS
15/02/04	46123	06:00:56 - 06:06:04	gap at KS
16/02/04	46141	12:09:17 - 12:10:55	gap at KS due to the execution of timeline GMN11 to cure the anomaly (switch-off/switch-on in time-tag) as planned
18/02/04	46166	06:06:28 - 06:12:13	gap at KS
23/02/04	46237	04:49:47 - 05:03:44	gap at PS
23/02/04	46238	06:31:35 - 06:42:28	gap at PS
27/02/04	46300	14:45:02 - 14:51:02	gap at KS
28/02/04	46306	00:35:33 - 00:42:46	gap at GS

Lamp Failures:

Date	reason	remark
28/02/04	Lamp Failures (no. 90) Orbit 46318	Lamp Failure set, the calibration lamp voltage decreased to a value of ~182 V instead of nominally ~197 V, stop time lamp failure 20:44:47 (start time cannot be analysed due to data are available only at visibility of groundstation)
28/02/04	Lamp Failure (no. 91) orbits 46318	Lamp Failure set, the calibration lamp voltage reached only a value of ~180 V instead of nominally ~197 V, Lamp Failure start 20:57:16 stop later than 21:05:41 (data are available only at visibility of groundstation)

cooler switchings:

Date	coolers off/on	maximum detector warm up temperature [Kelvin]
16/02/04	12:09:17 off 12:11:09 on	FPA 1: 244.7 FPA 2: 244.9 FPA 3: 244.5 FPA 4: 244.6

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

Narrow Swath Timeline:

Date	Orbit No.	Duration	remark
04-05/02/04	45970 - 45984	~13:00 (04/02/04) - ~12:30 (05/02/04)	Narrow Swath Timeline GMNNOT41 executed
14-15/02/04	46114 - 46127	~14:30 (14/02/04) - ~12:00 (15/02/04)	Narrow Swath Timeline GMNNOT41 executed
24-25/02/04	46256 - 46269	~13:00 (24/02/04) - ~10:30 (25/02/04)	Narrow Swath Timeline GMNNOT41 executed

others: none