GOME Operations for March 2004

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

GOME Operations during March 2004

Date	operations	remark
01/03/04	data available within visibility of groundstations	start of sun calibration: 11:28:22.53
02/03/04	data available within visibility of groundstations	start of sun calibration: 14:17:44.16
03/03/04	data available within visibility of groundstations	start of sun calibration: 13:46:04.59
04/03/04	data available within visibility of groundstations	start of sun calibration: 16:35:29.84
05/03/04	data available within visibility of groundstations	start of sun calibration: 16:03:44.28
06/03/04	data available within visibility of groundstations	start of sun calibration: 15:31:58.71
07/03/04	data available within visibility of groundstations	start of sun calibration: 15:00:19.15
08/03/04	data available within visibility of groundstations	start of sun calibration: 14:28:33.58
09/03/04	data available within visibility of groundstations	start of sun calibration: 13:56:48.02
10/03/04	data available within visibility of groundstations	start of sun calibration: 16:46:15.66
11/03/04	Lamp Failures (no. 92 - 97) data available within visibility of groundstations	start of sun calibration: 16:14:30.12
12/03/04	Lamp Failures (no. 98 - 101) data available within visibility of groundstations	start of sun calibration: 15:42:44.55
13/03/04	GOME North Polar View Timeline activated available within visibility of groundstations	start of sun calibration: 15:11:04.99
14/03/04	data available within visibility of groundstations	start of sun calibration: 14:39:19.95
15/03/04	data available within visibility of groundstations	start of sun calibration: 14:07:34.38
16/03/04	data available within visibility of groundstations	start of sun calibration: 13:35:48.81
17/03/04	data available within visibility of groundstations	start of sun calibration: 13:35:48.81
18/03/04	data available within visibility of groundstations	start of sun calibration: 16:25:16.45
19/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
20/03/04	data available within visibility of groundstations	start of sun calibration: 14:50:05.75
21/03/04	data available within visibility of groundstations	start of sun calibration: 14:18:20.19
22/03/04	data available within visibility of groundstations	start of sun calibration:13:46:38.85
23/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
24/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
25/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
26/03/04	data available within visibility of groundstations	start of sun calibration:15:00:49.99
27/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
28/03/04	Lamp Failures (no. 102 - 110) data available within visibility of groundstations monthly calibration performed during Orbits 46730 - 46734 two Orbits in Nadir Static View 46727, 46728	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre

	Lamp Failures (no. 111 - 113) data available within visibility of groundstations	
29/03/04	monthly calibration performed during Orbits 46730 - 46740	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
30/03/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manoeuvre
31/03/04	data available within visibility of groundstations	start of sun calibration: 15:43:27.43

Anomalies:

single event upsets (SEU): none

list of datagaps:

Date	Orbit No.	duration	reason
16/03/04	46543	23:17:17 - 23:31:09	gap at MS
19/03/04	46601	15:41:36 - 15:44:16	gap at GS
20/03/04	46607	01:12:49 - 01:23:34	gap at GS
29/03/04	46738	05:00:19 - 05:03:44	gap at PS
30/03/04	46756	11:25:28 - 11:33:40	gap at MA
30/03/04	46762	21:00:04 - 21:13:37	gap at MA
30/03/04	46763	22:45:40 - 22:50:12	gap at MA
31/03/04	46775	18:55:53 - 19:00:17	gap at MA
31/03/04	46777	22:11:22 - 22:20:55	gap at MA

Lamp Failures:

Date	reason	remark
11/03/04	Lamp Failure (no. 92) Orbit 46481	Lamp Failure set, stop time lamp failure 06:00:59 (start time cannot be analysed due to data are available only at visibility of groundstation)
11/03/04	Lamp Failure (no. 93) Orbit 46482	Lamp Failure set, 07:54:03 - 08:03:48, voltage decreased suddenly from ~200 - 180 V
11/03/04	Lamp Failure (no. 94) Orbit 46486	Lamp Failure set, 14:36:29 - 14:46:10, voltage decreased suddenly from ~200 - 180 V
11/03/04	Lamp Failure (no. 95) Orbit 46488	Lamp Failure set, 17:57:39 - 18:07:20, voltage decreased suddenly from ~200 - 180 V
11/03/04	Lamp Failure (no. 96) Orbit 46489	Lamp Failure set, stop time lamp failure 19:25:43 (start time cannot be analysed due to data are available only at visibility of groundstation)
11/03/04	Lamp Failure (no. 97) Orbit 46491	Lamp Failure set, stop time lamp failure 22:46:53 (start time cannot be analysed due to data are available only at visibility of groundstation)
12/03/04	Lamp Failure (no. 98) Orbit 46493	Lamp Failure set, stop time lamp failure 02:08:03 (start time cannot be analysed due to data are available only at visibility of groundstation)
12/03/04	Lamp Failure (no. 99) Orbit 46495	Lamp Failure set, stop time lamp failure 05:29:13 (start time cannot be analysed due to data are available only at visibility of groundstation)
12/03/04	Lamp Failure (no. 100) Orbit 46498	Lamp Failure set, 10:43:33 - 10:53:14, voltage decreased suddenly from ~200 - 180 V
12/03/04	Lamp Failure (no. 101) Orbit 46501	Lamp Failure set, 14:04:43 - 14:14:24, voltage decreased suddenly from ~200 - 180 V

28/03/04	Lamp Failures (no. 102-110) Orbit 46730-734	Lamp Failure set, the calibration lamp voltage reached only a value of ~182 V instead of nominally ~197 V, lamp failures between ~15:40- ~23:50
29/03/04	Lamp Failures (no. 111-113) Orbit 46737,46739, 46740	Lamp Failure set, the calibration lamp voltage reached only a value of ~182 V instead of nominally ~197 V, lamp failures between ~03:05 - ~08:36

cooler switchings: none

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

Narrow Swath Timeline:

Date	Orbit No.	Duration	remark
04-05/03/04	46388 - 46401	~18:00 (04/03/04) - ~16:00 (05/03/04)	Narrow Swath Timeline GMNNOT41 executed
14-15/03/04	46530 - 46443	~16:00 (14/03/04) - ~14:30 (15/03/04)	Narrow Swath Timeline GMNNOT41 executed
24-25/03/04	46674 - 46688	~17:30 (24/03/04) - ~17:30 (25/03/04)	Narrow Swath Timeline GMNNOT41 executed

others:

Date	Orbit No.	Duration	remark
10-12/03/04	46465 - 46499	03:09:28 (10/03/04) - ~14:00 (12/03/04)	Lamp Calibration Timeline performed (due to operational error) every two orbits
12/03/04	46501	~17:00	GOME North Polar View operations activated
22-23/03/04	46645 - 46659	17:11:08 (22/03/04) -16:39:20 (23/03/04)	Due to mode-change to FPM the data is degraded or not available (unavailability fax ref. ER2-UNA-004/002 & 003)