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

GOME Operations during May 2004

Date	operations	remark
01/05/04	data available within visibility of groundstations	start of sun calibration: 19:27:34.63
02/05/04	data available within visibility of groundstations	start of sun calibration: 18:55:49.07
03/05/04	data available within visibility of groundstations	start of sun calibration: 18:24:09.52
04/05/04	data available within visibility of groundstations	start of sun calibration: 17:52:29.97
05/05/04	data available within visibility of groundstations Polar View timeline ended	start of sun calibration: 17:20:44.42
06/05/04	data available within visibility of groundstations	start of sun calibration: 16:49:04.87
07/05/04	data available within visibility of groundstations	start of sun calibration: 19:38:32.52
08/05/04	data available within visibility of groundstations	start of sun calibration: 19:06:52.96
09/05/04	data available within visibility of groundstations	start of sun calibration: 18:35:13.39
10/05/04	data available within visibility of groundstations	start of sun calibration: 18:03:33.84
11/05/04	data available within visibility of groundstations	start of sun calibration: 17:31:48.27
12/05/04	data available within visibility of groundstations	start of sun calibration: 17:00:08.71
13/05/04	data available within visibility of groundstations	start of sun calibration: 19:49:42.35
14/05/04	data available within visibility of groundstations	start of sun calibration: 19:17:56.39
15/05/04	data available within visibility of groundstations	start of sun calibration: 18:46:16.82
16/05/04	data available within visibility of groundstations	start of sun calibration: 18:14:37.26
17/05/04	data available within visibility of groundstations	start of sun calibration: 17:42:57.69
18/05/04	SEU data available within visibility of groundstations	start of sun calibration: 17:11:18.12
19/05/04	SEU data available within visibility of groundstations	start of sun calibration: 20:00:45.76
20/05/04	SEU data available within visibility of groundstations	start of sun calibration: 19:29:06.20
21/05/04	2 SEUs data available within visibility of groundstations	start of sun calibration: 18:57:26.66
22/05/04	2 SEUs data available within visibility of groundstations	start of sun calibration: 18:25:47.63
23/05/04	2 SEUs data available within visibility of groundstations	start of sun calibration: 17:54:08.78
24/05/04	2 SEUs data available within visibility of groundstations	start of sun calibration: 17:22:27.38
25/05/04	data available within visibility of groundstations	start of sun calibration: 16:50:47.96
26/05/04	data available within visibility of groundstations	start of sun calibration: 19:41:39.61
27/05/04	data available within visibility of groundstations	start of sun calibration: 19:08:36.04
28/05/04	Lamp Failure (no. 111) data available within visibility of groundstations monthly calibration performed during Orbits 47606 - 47610 two Orbits in Nadir Static View	start of sun calibration: 18:36:56.48

47603, 47604

29/05/04 data available within visibility of groundstations start of sun calibration: 18:05:16.93
30/05/04 data available within visibility of groundstations start of sun calibration: 17:33:37.36
31/05/04 data available within visibility of groundstations start of sun calibration: 17:01:57.80

Anomalies:

single event upsets (SEU):

Date	reason
18-24/05/2004	on-board software problem caused anomaly (orbits 47451 - 47541) Level 0: - pixel readouts of channel 4 have low values cured with switch-off/on in time-tag day 24/05
21-24/05/2004	on-board software problem caused anomaly (orbits 47502 - 47541) Level 0: - anomalous values for FPA Temperatures (all channels) instead of stable value ~235 K, varying sinosoidal between 230 and ~238 K - anomalous values for Peltier I, II, III and IV values varying between 0 and - 8419 (nominal would be ~-1) - anomalous values for DDHU Temp increased from ~295K to ~305K Optical Bench Temp incr. from ~282K to 290K Other Temp B increased from ~275K to ~290K

list of datagaps:

Date	Orbit No.	duration	reason
01/05/04	47212	08:01:42 - 08:10:09	gap at MA
01/05/04	47219	19:19:03 - 19:27:39	gap at MA
01/05/04	47221	22:39:11 - 22:45:05	gap at MA
02/05/04	47233	18:50:20 - 18:54:34	gap at MA
02/05/04	47234	20:23:10 - 20:36:57	gap at MA
02/05/04	47235	22:05:21 - 22:15:25	gap at MA
03/05/04	47248	19:52:34 - 20:05:33	gap at MA
03/05/04	47249	21:31:52 - 21:44:50	gap at MA
03/05/04	47248	19:59:19 - 20:02:37	gap at KS
04/05/04	47255	08:06:33 - 08:16:14	gap at MA
04/05/04	47257	11:25:28 - 11:33:40	gap at MA
04/05/04	47262	19:24:22 - 19:33:29	gap at MA
04/05/04	47263	21:00:04 - 21:13:37	gap at MA
04/05/04	47264	22:45:40 - 22:50:12	gap at MA
05/05/04	47276	19:11:36 - 19:24:42	gap at PS
05/05/04	47277	20:28:47 - 20:42:32	gap at MA

06/05/04 47292 21:37:41 - 21:50:26 gap at MA
07/05/04 47300 11:31:18 - 11:39:02 gap at MA
07/05/04 47305 19:27:53 - 19:39:19 gap at MA
08/05/04 47308 00:35:33 - 00:42:46 gap at GS
08/05/04 47319 19:00:51 - 19:05:59 gap at MA
08/05/04 47321 22:17:25 - 22:26:22 gap at MA
09/05/04 47335 21:43:49 - 21:56:01 gap at MA
10/05/04 47343 11:37:06 - 11:44:17 gap at MA
10/05/04 47349 21:11:40 - 21:24:56 gap at MA
11/05/04 47362 19:11:45 - 19:12:57 gap at MA
11/05/04 47363 20:40:04 - 20:53:45 gap at MA
13/05/04 47386 11:42:55 - 11:49:28 gap at MA
13/05/04 47391 19:38:48 - 19:50:55 gap at MA
14/05/04 47405 19:11:09 - 19:18:51 gap at MA
14/05/04 47407 22:29:42 - 22:37:10 gap at MA
14/05/04 47398 07:57:34 - 07:59:48 gap at MA
15/05/04 47408 00:22:22 - 00:24:51 gap at KS
15/05/04 47414 10:30:22 - 10:44:21 gap at KS
15/05/04 47420 20:14:47 - 20:28:33 gap at MA
15/05/04 47421 21:55:51 - 22:07:08 gap at MA
16/05/04 47429 11:48:56 - 11:54:34 gap at MA
16/05/04 47435 21:23:11 - 21:36:21 gap at MA
17/05/04 47443 11:16:39 - 11:25:26 gap at MA
18/05/04 47457 10:44:09 - 10:55:39 gap at MA
18/05/04 47462 18:47:33 - 18:51:43 gap at MA
18/05/04 47463 20:20:22 - 20:34:10 gap at MA
19/05/04 47472 11:55:05 - 11:59:33 gap at MA
19/05/04 47477 19:49:48 - 20:02:37 gap at MA
19/05/04 47477 20:11:39 - 20:22:32 gap at PS
20/05/04 47484 08:03:53 - 08:13:12 gap at MA
20/05/04 47486 11:22:31 - 11:30:54 gap at MA
20/05/04 47491 19:21:42 - 19:30:34 gap at MA
20/05/04 47493 22:42:26 - 22:47:40 gap at MA
21/05/04 47500 10:49:55 - 11:01:07 gap at MA
21/05/04 47505 18:53:07 - 18:57:26 gap at MA
21/05/04 47507 22:08:21 - 22:18:10 gap at MA
22/05/04 47515 11:49:56 - 12:03:22 gap at KS
22/05/04 47521 21:34:46 - 21:47:38 gap at MA
22/05/04 47509 01:31:51 - 01:37:24 gap at GS
23/05/04 47529 11:28:24 - 11:36:24 gap at MA
23/05/04 47535 21:03:00 - 21:16:26 gap at MA
23/05/04 47532 16:27:20 - 16:41:01 gap at GS
24/05/04 47549 20:31:36 - 20:45:19 gap at MA
25/05/04 47562 18:43:05 - 18:56:46 gap at PS
25/05/04 47563 20:00:52 - 20:14:14 gap at MA

25/05/04	47563	20:23:07 - 20:33:24	gap at PS
26/05/04	47568	04:25:44 - 04:36:36	gap at GS
26/05/04	47569	06:07:52 - 06:20:05	gap at PS
26/05/04	47572	11:34:12 - 11:41:40	gap at MA
26/05/04	47577	19:30:36 - 19:42:13	gap at MA
27/05/04	47591	19:03:23 - 19:08:50	gap at MA
27/05/04	47593	22:20:27 - 22:29:0	gap at MA
29/05/04	47615	11:40:00 - 11:46:53	gap at MA
29/05/04	47621	21:14:32 - 21:27:47	gap at MA
30/05/04	47635	20:42:54 - 20:56:36	gap at MA
30/05/04	47634	19:14:43 - 19:15:54	gap at MA
31/05/04	47649	20:11:59 - 20:25:42	gap at MA

Lamp Failures:

Date	reason	remark
28/05/04	Lamp Failure (no. 111) Orbit 47606	Lamp Failure set, 20:20:06 - 20:27:31, voltage decreased suddenly from ~200 - 181 V

cooler switchings: none

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

Narrow Swath Timeline:

Date	Orbit No.	Duration	remark
04-05/05/04	47262 - 275	~19:00 (04/05/04) - ~17:00 (05/05/04)	Narrow Swath Timeline GMNNOT41 executed
14-15/05/04	47406 - 419	~21:00 (14/05/04) - ~19:00 (15/05/04)	Narrow Swath Timeline GMNNOT41 executed
24-26/05/04	47547 - 47573	~18:40 (24/05/04) - ~12:30 (26/05/04)	Narrow Swath Timeline GMNNOT41 executed

others:

Date	Orbit No.	Duration	remark
12/03/04 - 05/05/04	46501 - 47279	~17:00 (12/03/04) -~00:00 (05/05/04)	GOME North Polar View operations ended on day 05/05/2004; start of operations was day 12/03/2004