

GOME Operations during December 2004

Date	operations	remark
01/12/04	data available within visibility of groundstations	start of sun calibration: 10:49:53.25
02/12/04	data available within visibility of groundstation	start of sun calibration: 10:18:19.75
03/12/04	data available within visibility of groundstations	start of sun calibration: 13:07:59.45
04/12/04	data available within visibility of groundstations	start of sun calibration: 12:36:22.63
05/12/04	data available within visibility of groundstations	start of sun calibration: 12:04:49.13
06/12/04	data available within visibility of groundstations	start of sun calibration: 11:33:15.64
07/12/04	data available within visibility of groundstations	start of sun calibration: 11:01:42.14
08/12/04	data available within visibility of groundstations	start of sun calibration: 10:30:02.64
09/12/04	data available within visibility of groundstation	start of sun calibration: 13:19:42.36
10/12/04	data available within visibility of groundstations	start of sun calibration: 12:48:02.85
11/12/04	data available within visibility of groundstations	start of sun calibration: 12:16:29.36
12/12/04	data available within visibility of groundstations	start of sun calibration: 11:44:55.87
13/12/04	data available within visibility of groundstations	start of sun calibration: 11:13:16.37
14/12/04	data available within visibility of groundstations	start of sun calibration: 10:41:39.96
15/12/04	data available within visibility of groundstations	start of sun calibration: 13:31:19.68
16/12/04	data available within visibility of groundstation	start of sun calibration: 12:59:40.18
17/12/04	data available within visibility of groundstations	start of sun calibration: 12:28:06.67
18/12/04	data available within visibility of groundstations	start of sun calibration: 11:56:27.14
19/12/04	data available within visibility of groundstations	start of sun calibration: 11:24:53.63
20/12/04	data available within visibility of groundstations	start of sun calibration: 10:53:14.13
21/12/04	data available within visibility of groundstations	start of sun calibration: 10:21:40.63
22/12/04	data available within visibility of groundstations	start of sun calibration: 13:11:14.34
23/12/04	data available within visibility of groundstation	no solar calibration performed due to the execution of an ERS2 orbit manouvre
24/12/04	data available within visibility of groundstations	no solar calibration performed due to the execution of an ERS2 orbit manouvre
25/12/04	data available within visibility of groundstations	start of sun calibration: 11:36:18.62
	no data available due IDHT in standby and Payload switch-off	
26/12/04	GOME switch-off start: 12:45:36	no solar calibration data available
27/12/04	no data available due IDHT in standby GOME switch-off	no solar calibration data available
28/12/04	no data available due IDHT in standby GOME switch-off	no solar calibration data available
29/12/04	data available within visibility of groundstations GOME switch-off stop: 09:31:00	start of sun calibration: 11:10:23.68 (TST44 with warm detectors T= \sim 261K); 12:51:00.27 (with nominal detector temperatures of T = \sim 235 K); 21:14:02.80 (TST44 with warm detectors T= \sim 258K)
30/12/04	data available within visibility of groundstation	start of sun calibration: 12:19:24.24
31/12/04	data available within visibility of groundstations	start of sun calibration: 11:47:44.75

Anomalies:

single event upsets (SEU):

Date	reason
	on-board software problem caused anomaly (orbits 50683-50684); ~19:21:39 - 22:19:42
29/12/2004	Level 0: - parameter V315 out of limit; cured with GOME power cycle on-board software problem caused anomaly (orbits 50685-50692); 22:26:35 (29/12/04) - 11:44:29 (30/12/04)
	Level 0: - parameter V316 out of limit; - 3xNack flag set
29-30/12/04	- instrument not in rotating mode - scan mirror position set 16 at 261.8 deg, instead of alternating between +/- 30 deg - scan mirror motor current at 65535 BU (nominal would be ~37000 BU) - pixel channel summation values 0 (no science data available)

list of datagaps:

Date	Orbit No.	duration	reason
01/12/04	50282	18:55:53 - 19:00:17	gap at MA
01/12/04	50283	20:28:47 - 20:42:32	gap at MA
02/12/04	50294	15:22:04 - 15:26:05	gap at GS
03/12/04	50304	08:11:57 - 08:22:16	gap at MA
03/12/04	50306	11:31:18 - 11:39:02	gap at MA
03/12/04	50311	19:27:53 - 19:39:19	gap at MA
04/12/04	50314	00:35:33 - 00:42:46	gap at GS
04/12/04	50319	09:19:00 - 09:32:20	gap at MA
04/12/04	50325	19:00:51 - 19:05:59	gap at MA
04/12/04	50326	20:34:25 - 20:48:06	gap at MA
04/12/04	50327	22:17:25 - 22:26:22	gap at MA
05/12/04	50330	03:18:25 - 03:32:09	gap at GS
05/12/04	50341	21:43:49 - 21:56:01	gap at MA
06/12/04	50347	08:17:23 - 08:28:16	gap at MA
06/12/04	50349	11:37:06 - 11:44:17	gap at MA
06/12/04	50354	19:33:20 - 19:45:07	gap at MA
07/12/04	50368	19:05:58 - 19:12:57	gap at MA
07/12/04	50369	20:40:04 - 20:53:45	gap at MA
08/12/04	50376	08:54:11 - 09:06:36	gap at MA
09/12/04	50392	11:42:55 - 11:49:28	gap at MA

09/12/04	50397	19:38:48 - 19:50:55	gap at MA
10/12/04	50404	07:52:55 - 07:59:48	gap at MA
10/12/04	50411	19:11:09 - 19:18:51	gap at MA
10/12/04	50412	20:45:44 - 20:59:26	gap at MA
10/12/04	50413	22:29:42 - 22:37:10	gap at MA
11/12/04	50427	21:55:51 - 22:07:08	gap at MA
12/12/04	50435	11:48:56 - 11:54:34	gap at MA
12/12/04	50440	19:44:18 - 19:56:44	gap at MA
13/12/04	50447	07:59:07 - 08:07:05	gap at MA
13/12/04	50449	11:16:39 - 11:25:26	gap at MA
13/12/04	50454	19:16:24 - 19:24:43	gap at MA
14/12/04	50463	10:44:09 - 10:55:39	gap at MA
14/12/04	50468	18:47:33 - 18:51:43	gap at MA
14/12/04	50469	20:20:22 - 20:34:10	gap at MA
15/12/04	50478	11:55:05 - 11:59:33	gap at MA
15/12/04	50483	19:49:48 - 20:02:37	gap at MA
16/12/04	50490	08:03:53 - 08:13:12	gap at MA
16/12/04	50492	11:22:31 - 11:30:54	gap at MA
16/12/04	50496 - 50499	17:46:40 - 22:58:15	no data due to payload switch-off due to incorrect execution of AMI ICU memory test procedure (see ER2-UNA 2004/031)
17/12/04	50506	10:49:55 - 11:01:07	gap at MA
17/12/04	50511	18:53:07 - 18:57:26	gap at MA
17/12/04	50513	22:08:21 - 22:18:10	gap at MA
18/12/04	50526	19:55:19 - 20:08:28	gap at MA
18/12/04	50527	21:34:46 - 21:47:38	gap at MA
19/12/04	50535	11:28:24 - 11:36:24	gap at MA
19/12/04	50537	14:36:40 - 14:48:14	gap at KS
19/12/04	50541	21:03:00 - 21:16:26	gap at MA
20/12/04	50555	20:31:36 - 20:45:19	gap at MA
21/12/04	50569	20:00:52 - 20:14:14	gap at MA
22/12/04	50578	11:34:12 - 11:41:40	gap at MA
22/12/04	50583	19:30:36 - 19:42:13	gap at MA
23/12/04	50597	19:03:23 - 19:08:50	gap at MA
23/12/04	50598	20:37:14 - 20:50:54	gap at MA
23/12/04	50599	22:20:27 - 22:29:05	gap at MA
24/12/04	50613	21:47:01 - 21:58:48	gap at MA
24/12/04	50607	12:01:17 - 12:03:43	gap at KS
25/12/04	50621	11:40:00 - 11:46:53	gap at MA
25/12/04	50627	21:14:32 - 21:27:47	gap at MA
26-29/12/04	50629 - 50677	00:27:29 (26/12/04) - 09:31:00 (29/12/04)	no data due to IDHT in standby and Payload switch-off (ER2-UNA- 2004/034)
29/12/04	50682	17:40:07 - 17:51:13	gap at KS
29/12/04	50682	17:53:35 - 18:03:24	gap at GS
29/12/04	50683	19:13:16 - 19:21:17	gap at MA
29/12/04	50683	19:16:39 - 19:21:39	gap at KS
29/12/04	50684	20:53:19 - 21:02:17	gap at MA

29/12/04	50685	22:32:49 - 22:39:50	gap at MA
30/12/04	50697	18:44:45 - 18:48:51	gap at MA
30/12/04	50699	21:58:48 - 22:09:54	gap at MA
31/12/04	50707	11:51:59 - 11:57:05	gap at MA
31/12/04	50713	21:26:04 - 21:39:12	gap at MA

Lamp Failures: none

cooler switchings:

Date	coolers off/on	maximum detector warm up temperature [Kelvin]
29/12/04	00:27:29 (26/12/04) off 11:16:20 (29/12/04) on	FPA 1: 264.2
		FPA 2: 264.2
		FPA 3: 264.1
		FPA 4: 264.1
29/12/04	19:21:39 off 21:19:10 on	FPA 1: 259.2
		FPA 2: 259.0
		FPA 3: 259.9
		FPA 4: 259.1

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

Narrow Swath Timeline:

Date	Orbit No.	Duration	remark
04-05/12/04	50322 - 50335	~14:00 (04/12/04) - ~12:00 (05/12/04)	Narrow Swath Timeline GMNNOT41 executed
14-15/12/04	50464 - 50479	~12:00 (14/12/04) - ~13:00 (15/12/04)	Narrow Swath Timeline GMNNOT41 executed
24-25/12/04	50608 - 50620	~13:30 (24/12/04) - ~10:00 (25/12/04)	Narrow Swath Timeline GMNNOT41 executed

others:

Date	Orbit No.	Duration	remark
29 /12 /04	50678	11:04:47 - 11:06:41 11:14:23 - 11:16:20	calibration lamp mode without Lamp Failure (TST44 with warm detectors)
29 /12 /04	50684	21:08:20 - 21:10:16 21:18:02 - ~21:20:22	calibration lamp mode without Lamp Failure (TST44 with warm detectors); first sequence however with calibration lamp instability: after ignition with nominal lamp voltage value, sudden decrease of voltage to a value of ~180 V at ~21:08:52 (nominal value ~198V) however no lamp failure occurred