## GOME Operations during July 2004

| Date | operations | remark |
|---|---|---|
| 01/07/04 | data available within visibility of groundstations | start of sun calibration: 17:27:30.77 |
| 02/07/04 | data available within visibility of groundstations | start of sun calibration: 16:56:07.71 |
| 03/07/04 | data available within visibility of groundstations | start of sun calibration: 19:45:30.87 |
| 04/07/04 | data available within visibility of groundstations | start of sun calibration: 19:13:55.58 |
| 05/07/04 | data available within visibility of groundstations | start of sun calibration: 18:42:22.04 |
| 06/07/04 | data available within visibility of groundstations | start of sun calibration: 18:10:42.53 |
| 07/07/04 | data available within visibility of groundstations | start of sun calibration: 17:39:09.02 |
| 08/07/04 | data available within visibility of groundstations | no solar calibration measurements data available due to missing data |
| 09/07/04 | data available within visibility of groundstations | start of sun calibration: 19:57:15.17 |
| 10/07/04 | data available within visibility of groundstations | start of sun calibration: 19:25:35.67 |
| 11/07/04 | data available within visibility of groundstations | start of sun calibration: 18:54:02.17 |
| 12/07/04 | data available within visibility of groundstations | start of sun calibration: 18:22:28.67 |
| 13/07/04 | data available within visibility of groundstations | start of sun calibration: 17:50:49.90 |
| 14/07/04 | data available within visibility of groundstations | start of sun calibration: 17:19:18.46 |
| 15/07/04 | data available within visibility of groundstations | start of sun calibration: 16:47:47.94 |
| 16/07/04 | data available within visibility of groundstations | start of sun calibration: 19:38:12.00 |
| 17/07/04 | data available within visibility of groundstations | start of sun calibration: 19:06:36.00 |
| 18/07/04 | data available within visibility of groundstations<br>GOME switch-off<br>start: 01:25:37<br>stop: 09:00:12 | start of sun calibration: 18:35:03.00 |
| 19/07/04 | data available within visibility of groundstations | start of sun calibration: 18:03:27.00 |
| 20/07/04 | data available within visibility of groundstations | start of sun calibration: 17:31:01.53 |
| 21/07/04 | data available within visibility of groundstations | no solar calibration measurements available due to data gap |
| 22/07/04 | data available within visibility of groundstations | start of sun calibration: 19:49:07.75 |
| 23/07/04 | data available within visibility of groundstations | start of sun calibration: 19:17:34.27 |
| 24/07/04 | data available within visibility of groundstations | start of sun calibration: 18:45:58.56 |
| 25/07/04 | data available within visibility of groundstations | start of sun calibration: 18:41:31.07 |
| 26/07/04 | data available within visibility of groundstations | start of sun calibration: 17:42:51.59 |
| 27/07/04 | data available within visibility of groundstations | no solar calibration performed due to the execution of an ERS2 orbit manoeuvre |
| 28/07/04 | data available within visibility of groundstations<br>Lamp Failures (no. 123-127)<br>data available within visibility of groundstations<br>monthly calibration performed<br>during Orbits 48476, 48480- 48481<br>two Orbits in Nadir Static View<br>48477, 48478 | no solar calibration performed due to the execution of an ERS2 orbit manoeuvre |

data available within visibility of groundstations
Lamp Failures (no. 128-131)

29/07/04 data available within visibility of groundstations start of sun calibration: 19:29:30.31

monthly calibration performed

during Orbits 48482 - 48484

30/07/04 data available within visibility of groundstations start of sun calibration: 18:57:56.79

31/07/04 data available within visibility of groundstations start of sun calibration: 18:26:23.29

**Anomalies:**

single event upsets (SEU): none

list of datagaps:

| Date | Orbit No. | duration | reason |
|---|---|---|---|
| 01/07/04 | 48088 | 12:46:07 - 12:49:08 | gap at MS |
| 01/07/04 | 48092 | 19:03:23 - 19:08:50 | gap at MA |
| 01/07/04 | 48093 | 20:37:14 - 20:50:54 | gap at MA |
| 02/07/04 | 48102 | 12:01:17 - 12:14:35 | gap at KS |
| 02/07/04 | 48108 | 21:47:01 - 21:58:48 | gap at MA |
| 03/07/04 | 48116 | 11:40:00 - 11:46:53 | gap at MA |
| 03/07/04 | 48121 | 19:36:04 - 19:48:01 | gap at MA |
| 04/07/04 | 48127 | 05:41:34 - 05:54:44 | gap at PS |
| 04/07/04 | 48135 | 19:08:33 - 19:15:54 | gap at MA |
| 04/07/04 | 48136 | 20:42:54 - 20:56:36 | gap at MA |
| 04/07/04 | 48137 | 22:26:36 - 22:34:29 | gap at MA |
| 04/07/04 | 48134 | 17:48:02 - 17:58:01 | gap at GS |
| 05/07/04 | 48151 | 21:52:54 - 22:04:22 | gap at MA |
| 06/07/04 | 48159 | 11:45:54 - 11:52:02 | gap at MA |
| 06/07/04 | 48164 | 19:41:33 - 19:53:48 | gap at MA |
| 06/07/04 | 48166 | 22:57:55 - 23:11:19 | gap at MS |
| 06/07/04 | 48166 | 23:11:51 - 23:20:54 | gap at KS |
| 06/07/04 | 48162 | 16:31:09 - 16:32:40 | gap at KS |
| 07/07/04 | 48169 | 04:04:57 - 04:17:09 | gap at GS |
| 07/07/04 | 48170 | 05:47:23 - 06:00:22 | gap at PS |
| 07/07/04 | 48170 | 06:06:28 - 06:12:13 | gap at KS |
| 07/07/04 | 48171 | 07:45:19 - 07:57:00 | gap at KS |
| 07/07/04 | 48171 | 07:55:59 - 08:01:45 | gap at MA |
| 07/07/04 | 48173 | 11:13:43 - 11:22:45 | gap at MA |
| 07/07/04 | 48179 | 20:48:34 - 21:02:17 | gap at MA |
| 07/07/04 | 48180 | 22:32:49 - 22:39:50 | gap at MA |
| 08/07/04 | 48181 | 00:25:42 - 00:27:23 | gap at KS |
| 08/07/04 | 48185 | 07:14:06 - 07:24:30 | gap at KS |
| 08/07/04 | 48187 | 10:41:16 - 10:52:54 | gap at MA |
| 08/07/04 | 48191 | 17:07:22 - 17:20:04 | gap at KS |

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|---|---|---|---|
| 08/07/04 | 48192 | 18:44:45 - 18:48:51 | gap at MA |
| 08/07/04 | 48192 | 18:45:33 - 18:59:20 | gap at KS |
| 08/07/04 | 48193 | 20:17:34 - 20:31:22 | gap at MA |
| 08/07/04 | 48193 | 20:25:05 - 20:38:54 | gap at KS |
| 08/07/04 | 48193 | 20:40:21 - 20:49:38 | gap at PS |
| 08/07/04 | 48194 | 21:57:13 - 22:07:39 | gap at MS |
| 08/07/04 | 48194 | 21:58:48 - 22:09:54 | gap at MA |
| 08/07/04 | 48194 | 22:06:38 - 22:18:30 | gap at KS |
| 08/07/04 | 48195 | 23:51:09 - 23:57:28 | gap at KS |
| 09/07/04 | 48200 | 08:31:07 - 08:43:08 | gap at MA |
| 09/07/04 | 48202 | 11:51:59 - 11:57:05 | gap at MA |
| 09/07/04 | 48207 | 19:47:03 - 19:59:41 | gap at MA |
| 10/07/04 | 48212 | 04:10:51 - 04:22:43 | gap at GS |
| 10/07/04 | 48213 | 05:53:13 - 06:06:01 | gap at PS |
| 10/07/04 | 48214 | 08:01:42 - 08:10:09 | gap at MA |
| 10/07/04 | 48216 | 11:19:35 - 11:28:08 | gap at MA |
| 10/07/04 | 48217 | 13:03:45 - 13:13:29 | gap at MS |
| 10/07/04 | 48218 | 14:28:14 - 14:39:51 | gap at KS |
| 10/07/04 | 48218 | 14:40:00 - 14:50:53 | gap at GS |
| 10/07/04 | 48219 | 16:18:48 - 16:32:36 | gap at GS |
| 10/07/04 | 48220 | 17:59:24 - 18:08:44 | gap at GS |
| 10/07/04 | 48221 | 19:37:18 - 19:49:38 | gap at PS |
| 10/07/04 | 48223 | 22:32:45 - 22:45:26 | gap at MS |
| 10/07/04 | 48223 | 22:39:11 - 22:45:05 | gap at MA |
| 11/07/04 | 48228 | 07:19:46 - 07:30:26 | gap at KS |
| 11/07/04 | 48229 | 08:59:17 - 09:12:46 | gap at KS |
| 11/07/04 | 48230 | 10:38:54 - 10:52:52 | gap at KS |
| 11/07/04 | 48235 | 18:50:20 - 18:54:34 | gap at MA |
| 11/07/04 | 48235 | 19:05:53 - 19:19:08 | gap at PS |
| 11/07/04 | 48237 | 22:05:21 - 22:15:25 | gap at MA |
| 12/07/04 | 48242 | 06:31:35 - 06:42:28 | gap at PS |
| 12/07/04 | 48243 | 08:36:49 - 08:49:02 | gap at MA |
| 12/07/04 | 48248 | 16:55:57 - 17:08:52 | gap at GS |
| 12/07/04 | 48250 | 19:52:34 - 20:05:33 | gap at MA |
| 12/07/04 | 48251 | 21:31:52 - 21:44:50 | gap at MA |
| 13/07/04 | 48257 | 08:06:33 - 08:16:14 | gap at MA |
| 13/07/04 | 48259 | 11:25:28 - 11:33:40 | gap at MA |
| 13/07/04 | 48264 | 19:43:02 - 19:55:08 | gap at PS |
| 13/07/04 | 48265 | 21:00:04 - 21:13:37 | gap at MA |
| 13/07/04 | 48266 | 22:45:40 - 22:50:12 | gap at MA |
| 13/07/04 | 48260 | 13:09:38 - 13:13:22 | gap at MS |
| 14/07/04 | 48278 | 18:55:53 - 19:00:17 | gap at MA |
| 14/07/04 | 48279 | 20:28:47 - 20:42:32 | gap at MA |
| 15/07/04 | 48291 | 17:01:41 - 17:14:24 | gap at GS |
| 15/07/04 | 48293 | 20:20:15 - 20:30:41 | gap at PS |

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|---|---|---|---|
| 16/07/04 | 48300 | 08:11:57 - 08:22:16 | gap at MA |
| 16/07/04 | 48301 | 09:42:00 - 09:55:54 | gap at KS |
| 16/07/04 | 48302 | 11:31:18 - 11:39:02 | gap at MA |
| 16/07/04 | 48307 | 19:27:53 - 19:39:19 | gap at MA |
| 16/07/04 | 48302 | 11:46:45 - 11:47:46 | gap at MS |
| 17/07/04 | 48310 | 00:35:33 - 00:42:46 | gap at GS |
| 17/07/04 | 48321 | 19:00:51 - 19:05:59 | gap at MA |
| 17/07/04 | 48323 | 22:17:25 - 22:26:22 | gap at MA |
| 18/07/04 | 48337 | 21:43:49 - 21:56:01 | gap at MA |
| 18/07/04 | 48324 - 48328 | 01:25:37 - 09:00:12 | data gap due to GOME switch-off (see ER2-UNA- 2004/019) |
| 19/07/04 | 48341 | 04:28:44 - 04:39:21 | gap at GS |
| 19/07/04 | 48343 | 08:17:23 - 08:28:16 | gap at MA |
| 19/07/04 | 48345 | 11:37:06 - 11:44:17 | gap at MA |
| 19/07/04 | 48350 | 19:39:22 - 19:53:22 | gap at KS |
| 19/07/04 | 48351 | 21:19:55 - 21:32:59 | gap at KS |
| 19/07/04 | 48352 | 23:02:52 - 23:12:25 | gap at KS |
| 20/07/04 | 48361 | 14:26:08 - 14:36:54 | gap at GS |
| 20/07/04 | 48362 | 16:04:34 - 16:18:29 | gap at GS |
| 20/07/04 | 48363 | 17:44:53 - 17:55:20 | gap at GS |
| 20/07/04 | 48364 | 19:23:01 - 19:35:49 | gap at PS |
| 20/07/04 | 48365 | 20:40:04 - 20:53:45 | gap at MA |
| 20/07/04 | 48365 | 21:03:23 - 21:11:07 | gap at PS |
| 20/07/04 | 48366 | 22:18:57 - 22:31:03 | gap at MS |
| 20/07/04 | 48366 | 22:23:31 - 22:31:48 | gap at MA |
| 20/07/04 | 48367 | 23:58:14 - 00:10:28 | gap at MS |
| 20/07/04 | 48364 | 19:11:47 - 19:12:57 | gap at MA |
| 21/07/04 | 48367 | 23:58:14 - 00:10:28 | gap at MS |
| 21/07/04 | 48367 | 00:15:56 - 00:19:32 | gap at KS |
| 21/07/04 | 48376 | 15:21:17 - 15:33:02 | gap at KS |
| 21/07/04 | 48377 | 16:58:59 - 17:11:35 | gap at KS |
| 21/07/04 | 48378 | 18:37:05 - 18:50:48 | gap at KS |
| 21/07/04 | 48379 | 20:09:12 - 20:22:50 | gap at MA |
| 21/07/04 | 48379 | 20:16:29 - 20:30:22 | gap at KS |
| 21/07/04 | 48380 | 21:49:57 - 22:01:35 | gap at MA |
| 21/07/04 | 48380 | 21:57:50 - 22:09:58 | gap at KS |
| 21/07/04 | 48381 | 23:42:00 - 23:49:04 | gap at KS |
| 22/07/04 | 48385 | 06:16:43 - 06:28:30 | gap at PS |
| 22/07/04 | 48388 | 11:42:55 - 11:49:28 | gap at MA |
| 22/07/04 | 48393 | 19:38:48 - 19:50:55 | gap at MA |
| 23/07/04 | 48409 | 22:29:42 - 22:37:10 | gap at MA |
| 23/07/04 | 48400 | 07:57:30 - 07:59:48 | gap at MA |
| 23/07/04 | 48407 | 19:17:47 - 19:18:51 | gap at MA |
| 24/07/04 | 48423 | 21:55:51 - 22:07:08 | gap at MA |
| 24/07/04 | 48415 | 08:59:58 - 09:01:49 | gap at MA |
| 25/07/04 | 48431 | 11:48:56 - 11:54:34 | gap at MA |

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|---|---|---|---|
| 25/07/04 | 48436 | 19:44:18 - 19:56:44 | gap at MA |
| 25/07/04 | 48437 | 21:23:11 - 21:36:21 | gap at MA |
| 26/07/04 | 48443 | 07:59:07 - 08:07:05 | gap at MA |
| 26/07/04 | 48445 | 11:16:39 - 11:25:26 | gap at MA |
| 26/07/04 | 48447 | 14:37:13 - 14:48:09 | gap at GS |
| 27/07/04 | 48459 | 10:44:09 - 10:55:39 | gap at MA |
| 27/07/04 | 48464 | 18:47:33 - 18:51:43 | gap at MA |
| 27/07/04 | 48464 | 19:03:02 - 19:16:21 | gap at PS |
| 27/07/04 | 48465 | 20:20:22 - 20:34:10 | gap at MA |
| 28/07/04 | 48474 | 11:55:05 - 11:59:33 | gap at MA |
| 28/07/04 | 48479 | 19:49:48 - 20:02:37 | gap at MA |
| 28/07/04 | 48479 | 20:11:39 - 20:22:32 | gap at PS |
| 29/07/04 | 48488 | 11:22:31 - 11:30:54 | gap at MA |
| 29/07/04 | 48491 | 16:21:39 - 16:35:25 | gap at GS |
| 29/07/04 | 48493 | 19:21:42 - 19:30:34 | gap at MA |
| 29/07/04 | 48495 | 22:42:26 - 22:47:40 | gap at MA |
| 29/07/04 | 48494 | 20:57:07 - 21:04:06 | gap at MA |
| 30/07/04 | 48507 | 18:53:07 - 18:57:26 | gap at MA |
| 30/07/04 | 48509 | 22:08:21 - 22:18:10 | gap at MA |
| 31/07/04 | 48523 | 21:34:46 - 21:47:38 | gap at MA |

Lamp Failures:

| Date | reason | remark |
|---|---|---|
| 28/07/04 | Lamp Failure (no. 123 - 127)<br>Orbit 48476, 48480, 48481 | Lamp Failures set during monthly calibration sequences, voltage reached only a value of 180 V |
| 29/07/04 | Lamp Failure (no. 128 - 131)<br>Orbit 48482, 48483 | Lamp Failures set during monthly calibration sequences, voltage reached only a value of 180 V |

**cooler switchings:**

| Date | coolers off/on | maximum detector warm up temperature [Kelvin] |
|---|---|---|
| 18/07/04 | 01:25:37 off<br>10:19:00 on | FPA 1: 270.4<br>FPA 2: 271.3<br>FPA 3: 271.1<br>FPA 4: 271.5 |

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

Narrow Swath Timeline:

| Date | Orbit No. | Duration | remark |
|---|---|---|---|
| 04-05/07/04 | 48136 - 48149 | ~20:30 (04/07/04) -<br>~18:30 (05/07/04) | Narrow Swath Timeline GMNNOT41 executed |
| 14-15/07/04 | 48278 - 48291 | ~19:00 (14/07/04) -<br>~16:30 (15/07/04) | Narrow Swath Timeline GMNNOT41 executed |
| 24-25/07/04 | 48422 - 48435 | ~20:00 (24/07/04) -<br>~18:00 (25/07/04) | Narrow Swath Timeline GMNNOT41 executed |

**others: none**