

GOME Operations for July 2008

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

GOME Operations during July 2008

Date	Operations	remark
01/07/08	data available within visibility of groundstation	start of sun calibration: 18:53:02
02/07/08	data available within visibility of groundstation	start of sun calibration: 18:21:27
03/07/08	data available within visibility of groundstation	start of sun calibration: 17:49:51
04/07/08	data available within visibility of groundstation	start of sun calibration: 17:17:21.335
05/07/08	data available within visibility of groundstation	start of sun calibration at ca 16:45 (exact time not available due to data gap)
06/07/08	data available within visibility of groundstation	start of sun calibration: 19:35:21.540
07/07/08	data available within visibility of groundstation	start of sun calibration: 19:03:48.047
08/07/08	data available within visibility of groundstation	start of sun calibration: 18:32:14.536
09/07/08	data available within visibility of groundstation	start of sun calibration: 18:00:41.034
10/07/08	data available within visibility of groundstation	start of sun calibration: 17:29:01.529
11/07/08	data available within visibility of groundstation	start of sun calibration at ca 16:56 (exact time not available due to data gap)
12/07/08	data available within visibility of groundstation	start of sun calibration: 19:47:07.739
13/07/08	data available within visibility of groundstation	start of sun calibration: 19:15:34.231
14/07/08	data available within visibility of groundstation	start of sun calibration: 18:43:57.494
15/07/08	data available within visibility of groundstation	start of sun calibration: 18:12:24.000
16/07/08	data available within visibility of groundstation	start of sun calibration: 17:40:44.504
17/07/08	data available within visibility of groundstation	start of sun calibration: 17:09:11.013
18/07/08	data available within visibility of groundstation	start of sun calibration: 19:58:50.742
19/07/08	data available within visibility of groundstation	start of sun calibration: 19:27:17.242
20/07/08	data available within visibility of groundstation	start of sun calibration: 18:55:43.765
21/07/08	data available within visibility of groundstation	start of sun calibration: 18:24:10.270
22/07/08	data available within visibility of groundstation	start of sun calibration: 17:52:36.779
23/07/08	data available within visibility of groundstation	start of sun calibration: 17:21:03.293
24/07/08	data available within visibility of groundstation	start of sun calibration: 16:49:25.451

25/07/08	SEU data available within visibility of groundstation	TST44: solar calibration mode with warm detectors (T=-257.5) start of sun calibration: 19:39:06.523
26/07/08	data available within visibility of groundstation	start of sun calibration: 19:07:33.104
27/07/08	data available within visibility of groundstation	start of sun calibration: 18:35:59.582
28/07/07	quarterly calibration during Orbits 69392 - 69394 two orbits in Nadir Static View 69389, 69390 data available within visibility of groundstation	start of sun calibration: 18:04:26.089
29/07/08	quarterly calibration during Orbits 69392 - 69397 Lamp Failures (no 241 - 246) data available within visibility of groundstation	start of sun calibration: 17:32:52.631
30/07/08	data available within visibility of groundstation	start of sun calibration: 17:01:19.158
31/07/08	data available within visibility of groundstation	start of sun calibration: 19:50:58.901

Anomalies:

single event upsets (SEU):

Date	Reason
25/07/08	GOME unpowered , start 13:34:27, stop ca 16:27, orbits 69345-69347; FPA1 temperature, RTM and APM latch upcounters out of limits; MPS resumed at ca 21:12

list of datagaps:

Date	Orbit No.	duration	reason
01/07/08	68994	01:15:57 - 01:26:09	gap at MM
01/07/08	68995	02:22:10 - 02:34:58	gap at BE
01/07/08	68995	02:34:07 - 02:45:57	gap at SG
01/07/08	68995	03:29:55 - 03:41:30	gap at CM
01/07/08	68996	04:01:44 - 04:13:48	gap at BE
01/07/08	68996	03:30:25 - 03:43:48	gap at MI
01/07/08	68996	04:12:53 - 04:25:24	gap at SG
01/07/08	68996	05:10:20 - 05:19:38	gap at CM
01/07/08	68997	06:23:49 - 06:30:09	gap at MM
01/07/08	68998	07:01:48 - 07:10:07	gap at PS
01/07/08	68998	07:16:56 - 07:27:28	gap at KS
01/07/08	69001	13:05:02 - 13:17:43	gap at MM
01/07/08	69002	14:44:40 - 14:57:22	gap at MM
01/07/08	69003	15:19:22 - 15:30:37	gap at BE

01/07/08	69003	16:24:01 - 16:36:35	gap at MM
01/07/08	69003	15:50:36 - 16:03:57	gap at MI
01/07/08	69003	15:53:44 - 16:05:26	gap at CM
01/07/08	69004	17:33:59 - 17:43:12	gap at CM
01/07/08	69005	18:47:33 - 18:51:43	gap at MA
01/07/08	69006	21:22:00 - 21:34:41	gap at MM
01/07/08	69006	20:20:22 - 20:34:10	gap at MA
01/07/08	69007	22:53:39 - 23:06:53	gap at HO
01/07/08	69007	23:02:24 - 23:14:33	gap at MM
01/07/08	69007	22:01:51 - 22:12:40	gap at MA
01/07/08	69008	23:54:12 - 00:00:16	gap at KS
01/07/08	68999	08:56:27 - 08:57:36	gap at KS
01/07/08	69000	10:36:04 - 10:37:16	gap at KS
01/07/08	69001	12:15:28 - 12:16:39	gap at KS
01/07/08	69002	13:54:22 - 13:55:38	gap at KS
01/07/08	69003	15:32:27 - 15:33:52	gap at KS
01/07/08	69004	17:10:11 - 17:11:26	gap at KS
01/07/08	69005	18:48:22 - 18:49:25	gap at KS
01/07/08	69000	10:49:36 - 10:50:52	gap at MS
01/07/08	69001	12:28:44 - 12:30:01	gap at MS
01/07/08	69004	18:03:11 - 18:04:42	gap at MM
01/07/08	69002	15:07:55 - 15:09:04	gap at SG
01/07/08	69003	16:49:34 - 16:50:49	gap at SG
01/07/08	68996	04:12:53 - 04:25:24	gap at SG
01/07/08	68996	05:10:20 - 05:19:38	gap at CM
01/07/08	68997	06:23:49 - 06:30:09	gap at MM
01/07/08	68998	07:01:48 - 07:10:07	gap at PS
01/07/08	68998	07:16:56 - 07:27:28	gap at KS
01/07/08	69001	13:05:02 - 13:17:43	gap at MM
01/07/08	69002	14:44:40 - 14:57:22	gap at MM
01/07/08	69003	15:19:22 - 15:30:37	gap at BE
01/07/08	69003	16:24:01 - 16:36:35	gap at MM
01/07/08	69003	15:50:36 - 16:03:57	gap at MI
01/07/08	69003	15:53:44 - 16:05:26	gap at CM
01/07/08	69004	17:33:59 - 17:43:12	gap at CM
01/07/08	69005	18:47:33 - 18:51:43	gap at MA
01/07/08	69006	21:22:00 - 21:34:41	gap at MM
01/07/08	69006	20:20:22 - 20:34:10	gap at MA
01/07/08	69007	22:53:39 - 23:06:53	gap at HO
01/07/08	69007	23:02:24 - 23:14:33	gap at MM
01/07/08	69007	22:01:51 - 22:12:40	gap at MA
01/07/08	69008	23:54:12 - 00:00:16	gap at KS
01/07/08	68999	08:56:27 - 08:57:36	gap at KS
01/07/08	69000	10:36:04 - 10:37:16	gap at KS
01/07/08	69001	12:15:28 - 12:16:39	gap at KS
01/07/08	69002	13:54:22 - 13:55:38	gap at KS
01/07/08	69003	15:32:27 - 15:33:52	gap at KS
01/07/08	69004	17:10:11 - 17:11:26	gap at KS

01/07/08	69005	18:48:22 - 18:49:25	gap at KS
01/07/08	69000	10:49:36 - 10:50:52	gap at MS
01/07/08	69001	12:28:44 - 12:30:01	gap at MS
01/07/08	69004	18:03:11 - 18:04:42	gap at MM
01/07/08	69002	15:07:55 - 15:09:04	gap at SG
01/07/08	69003	16:49:34 - 16:50:49	gap at SG
02/07/08	69008	23:54:12 - 00:00:16	gap at KS
02/07/08	69009	01:51:29 - 02:02:42	gap at BE
02/07/08	69010	03:00:07 - 03:09:18	gap at CM
02/07/08	69011	05:51:54 - 05:57:50	gap at MM
02/07/08	69011	06:18:27 - 06:30:09	gap at CM
02/07/08	69012	06:45:47 - 06:54:26	gap at KS
02/07/08	69015	12:33:41 - 12:46:15	gap at MM
02/07/08	69015	11:55:05 - 11:59:33	gap at MA
02/07/08	69016	14:13:23 - 14:26:07	gap at MM
02/07/08	69016	14:37:30 - 14:49:44	gap at SG
02/07/08	69017	14:47:07 - 14:59:56	gap at BE
02/07/08	69017	15:52:50 - 16:05:25	gap at MM
02/07/08	69017	15:19:45 - 15:32:16	gap at MI
02/07/08	69017	15:23:40 - 15:32:56	gap at CM
02/07/08	69018	17:32:02 - 17:44:33	gap at MM
02/07/08	69018	16:59:25 - 17:10:47	gap at MI
02/07/08	69018	17:01:46 - 17:13:23	gap at CM
02/07/08	69020	20:50:37 - 21:03:21	gap at MM
02/07/08	69020	19:49:48 - 20:02:37	gap at MA
02/07/08	69021	22:30:45 - 22:43:08	gap at MM
02/07/08	69013	08:25:08 - 08:26:18	gap at KS
02/07/08	69014	10:04:46 - 10:05:56	gap at KS
02/07/08	69015	11:44:16 - 11:45:31	gap at KS
02/07/08	69016	13:23:21 - 13:24:30	gap at KS
02/07/08	69017	15:01:53 - 15:03:12	gap at KS
02/07/08	69018	16:39:29 - 16:40:45	gap at KS
02/07/08	69019	18:17:23 - 18:18:45	gap at KS
02/07/08	69017	15:13:37 - 15:14:38	gap at GS
02/07/08	69014	10:19:26 - 10:20:42	gap at MS
02/07/08	69015	11:57:09 - 11:58:25	gap at MS
02/07/08	69021	21:28:58 - 21:30:36	gap at MA
02/07/08	69010	03:30:11 - 03:31:25	gap at BE
02/07/08	69010	03:41:07 - 03:42:16	gap at SG
02/07/08	69016	14:37:30 - 14:40:02	gap at SG
02/07/08	69017	16:16:37 - 16:17:56	gap at SG
03/07/08	69024	02:32:56 - 02:34:43	gap at CM
03/07/08	69025	04:39:23 - 04:49:05	gap at BE
03/07/08	69025	05:19:51 - 05:25:37	gap at MM
03/07/08	69025	05:46:53 - 05:59:18	gap at CM
03/07/08	69026	06:14:50 - 06:21:16	gap at KS
03/07/08	69027	08:03:53 - 08:13:12	gap at MA
03/07/08	69030	13:42:05 - 13:54:48	gap at MM

03/07/08	69031	14:15:30 - 14:28:54	gap at BE
03/07/08	69031	15:21:36 - 15:34:15	gap at MM
03/07/08	69031	14:49:33 - 14:59:44	gap at MI
03/07/08	69032	15:58:50 - 16:05:54	gap at BE
03/07/08	69032	16:27:37 - 16:40:33	gap at MI
03/07/08	69032	16:30:16 - 16:42:40	gap at CM
03/07/08	69033	18:40:00 - 18:52:36	gap at MM
03/07/08	69034	20:19:19 - 20:32:02	gap at MM
03/07/08	69035	21:59:11 - 22:11:45	gap at MM
03/07/08	69036	23:39:58 - 23:51:42	gap at MM
03/07/08	69036	22:42:26 - 22:47:40	gap at MA
03/07/08	69027	07:53:51 - 07:54:59	gap at KS
03/07/08	69028	09:33:27 - 09:34:37	gap at KS
03/07/08	69029	11:13:01 - 11:14:14	gap at KS
03/07/08	69030	12:52:16 - 12:53:26	gap at KS
03/07/08	69031	14:31:02 - 14:32:16	gap at KS
03/07/08	69032	16:08:45 - 16:09:58	gap at KS
03/07/08	69033	17:46:40 - 17:47:58	gap at KS
03/07/08	69024	02:34:09 - 02:46:44	gap at GS
03/07/08	69031	14:43:57 - 14:53:37	gap at GS
03/07/08	69029	11:25:59 - 11:27:18	gap at MS
03/07/08	69030	13:06:41 - 13:07:56	gap at MS
03/07/08	69035	20:57:07 - 20:58:35	gap at MA
03/07/08	69025	04:07:47 - 04:09:34	gap at MI
03/07/08	69024	02:58:52 - 03:00:09	gap at BE
03/07/08	69024	03:10:00 - 03:20:03	gap at SG
03/07/08	69025	04:51:40 - 04:56:19	gap at SG
03/07/08	69031	15:44:44 - 15:46:02	gap at SG
04/07/08	69038	03:04:37 - 03:12:22	gap at MM
04/07/08	69038	03:35:26 - 03:47:17	gap at CM
04/07/08	69039	04:07:29 - 04:19:17	gap at BE
04/07/08	69039	04:47:38 - 04:53:33	gap at MM
04/07/08	69040	05:16:24 - 05:24:57	gap at CM
04/07/08	69043	11:30:53 - 11:43:02	gap at MM
04/07/08	69045	15:00:05 - 15:09:12	gap at HO
04/07/08	69045	14:50:21 - 15:03:03	gap at MM
04/07/08	69045	14:21:14 - 14:25:08	gap at MI
04/07/08	69045	15:13:31 - 15:27:18	gap at SG
04/07/08	69046	15:25:19 - 15:36:09	gap at BE
04/07/08	69046	16:55:47 - 17:03:12	gap at SG
04/07/08	69046	15:59:18 - 16:11:14	gap at CM
04/07/08	69047	18:08:51 - 18:21:24	gap at MM
04/07/08	69047	17:39:57 - 17:48:29	gap at CM
04/07/08	69048	19:48:03 - 20:00:45	gap at MM
04/07/08	69049	21:27:43 - 21:40:23	gap at MM
04/07/08	69049	20:25:59 - 20:39:45	gap at MA
04/07/08	69050	22:59:14 - 23:12:37	gap at HO
04/07/08	69042	09:02:08 - 09:03:19	gap at KS

04/07/08	69043	10:41:45 - 10:42:57	gap at KS
04/07/08	69044	12:21:08 - 12:22:18	gap at KS
04/07/08	69045	14:00:02 - 14:01:16	gap at KS
04/07/08	69046	15:38:03 - 15:39:24	gap at KS
04/07/08	69047	17:15:52 - 17:17:07	gap at KS
04/07/08	69039	03:41:32 - 03:44:08	gap at GS
04/07/08	69043	10:55:03 - 10:56:15	gap at MS
04/07/08	69044	12:34:29 - 12:35:41	gap at MS
04/07/08	69048	18:53:07 - 18:54:54	gap at MA
04/07/08	69039	03:36:07 - 03:37:59	gap at MI
04/07/08	69038	02:27:47 - 02:29:37	gap at BE
04/07/08	69038	02:39:33 - 02:40:39	gap at SG
04/07/08	69038	02:42:45 - 02:51:50	gap at SG
04/07/08	69039	04:18:44 - 04:19:50	gap at SG
04/07/08	69039	04:27:23 - 04:30:52	gap at SG
05/07/08	69051	00:37:54 - 00:52:11	gap at HO
05/07/08	69051	00:00:21 - 00:05:49	gap at KS
05/07/08	69052	02:32:14 - 02:40:45	gap at MM
05/07/08	69053	03:05:26 - 03:15:13	gap at CM
05/07/08	69053	04:43:40 - 04:55:06	gap at CM
05/07/08	69054	05:57:43 - 06:03:42	gap at MM
05/07/08	69057	10:59:27 - 11:11:16	gap at MM
05/07/08	69058	12:39:23 - 12:51:59	gap at MM
05/07/08	69059	14:19:05 - 14:31:48	gap at MM
05/07/08	69060	14:52:56 - 15:05:33	gap at BE
05/07/08	69060	15:29:03 - 15:38:56	gap at CM
05/07/08	69061	17:07:34 - 17:18:53	gap at CM
05/07/08	69062	19:16:51 - 19:29:30	gap at MM
05/07/08	69063	20:56:19 - 21:09:03	gap at MM
05/07/08	69056	08:30:50 - 08:31:58	gap at KS
05/07/08	69057	10:10:27 - 10:11:37	gap at KS
05/07/08	69058	11:49:57 - 11:51:11	gap at KS
05/07/08	69059	13:28:59 - 13:30:09	gap at KS
05/07/08	69060	15:07:26 - 15:08:51	gap at KS
05/07/08	69061	16:45:03 - 16:46:20	gap at KS
05/07/08	69062	18:23:01 - 18:24:15	gap at KS
05/07/08	69057	10:24:53 - 10:26:12	gap at MS
05/07/08	69058	12:02:55 - 12:04:04	gap at MS
05/07/08	69065	23:12:04 - 23:14:26	gap at MS
05/07/08	69063	19:55:19 - 19:56:42	gap at MA
05/07/08	69064	21:34:46 - 21:36:24	gap at MA
05/07/08	69053	03:06:29 - 03:18:10	gap at MI
05/07/08	69061	17:37:41 - 17:39:03	gap at MM
05/07/08	69052	01:57:01 - 01:58:24	gap at BE
05/07/08	69052	02:04:02 - 02:08:38	gap at BE
05/07/08	69053	03:35:54 - 03:37:13	gap at BE
05/07/08	69052	02:10:11 - 02:11:48	gap at SG
05/07/08	69053	03:46:51 - 03:53:35	gap at SG

05/07/08	69059	14:42:58 - 14:46:03	gap at SG
05/07/08	69060	16:22:31 - 16:23:58	gap at SG
06/07/08	69065	00:17:40 - 00:28:53	gap at MM
06/07/08	69067	03:04:32 - 03:17:57	gap at BE
06/07/08	69067	03:42:55 - 03:49:50	gap at MM
06/07/08	69067	02:37:11 - 02:41:41	gap at CM
06/07/08	69067	04:11:58 - 04:24:21	gap at CM
06/07/08	69068	04:45:15 - 04:54:25	gap at BE
06/07/08	69068	05:25:41 - 05:31:28	gap at MM
06/07/08	69070	08:09:14 - 08:19:15	gap at MA
06/07/08	69071	10:27:59 - 10:39:24	gap at MM
06/07/08	69072	12:08:00 - 12:20:26	gap at MM
06/07/08	69072	11:28:24 - 11:36:24	gap at MA
06/07/08	69073	13:56:25 - 14:10:23	gap at HO
06/07/08	69074	14:21:13 - 14:34:34	gap at BE
06/07/08	69074	15:00:41 - 15:04:38	gap at CM
06/07/08	69075	16:05:11 - 16:11:05	gap at BE
06/07/08	69075	16:35:57 - 16:48:19	gap at CM
06/07/08	69077	20:25:00 - 20:37:44	gap at MM
06/07/08	69077	19:27:03 - 19:36:24	gap at MA
06/07/08	69078	21:03:00 - 21:16:26	gap at MA
06/07/08	69079	23:35:21 - 23:49:44	gap at HO
06/07/08	69070	07:59:32 - 08:00:41	gap at KS
06/07/08	69071	09:39:09 - 09:40:19	gap at KS
06/07/08	69072	11:18:42 - 11:19:54	gap at KS
06/07/08	69073	12:57:55 - 12:59:10	gap at KS
06/07/08	69074	14:36:40 - 14:37:55	gap at KS
06/07/08	69075	16:14:20 - 16:15:35	gap at KS
06/07/08	69076	17:52:14 - 17:53:40	gap at KS
06/07/08	69072	11:31:39 - 11:33:00	gap at MS
06/07/08	69073	13:12:35 - 13:13:46	gap at MS
06/07/08	69076	18:45:40 - 18:46:43	gap at MM
06/07/08	69067	03:15:37 - 03:16:56	gap at SG
06/07/08	69074	15:50:29 - 15:51:47	gap at SG
07/07/08	69080	01:27:40 - 01:37:37	gap at MM
07/07/08	69081	02:45:02 - 02:57:41	gap at SG
07/07/08	69081	03:40:59 - 03:53:02	gap at CM
07/07/08	69082	04:13:16 - 04:24:45	gap at BE
07/07/08	69082	04:53:30 - 04:59:22	gap at MM
07/07/08	69083	05:49:59 - 05:52:29	gap at KS
07/07/08	69083	05:22:33 - 05:30:13	gap at CM
07/07/08	69085	09:56:31 - 10:07:26	gap at MM
07/07/08	69086	11:36:35 - 11:48:48	gap at MM
07/07/08	69088	15:19:09 - 15:33:00	gap at SG
07/07/08	69089	15:31:18 - 15:41:39	gap at BE
07/07/08	69089	16:35:22 - 16:47:54	gap at MM
07/07/08	69089	16:04:53 - 16:17:00	gap at CM
07/07/08	69090	18:14:30 - 18:27:04	gap at MM

07/07/08	69090	17:44:13 - 17:50:06	gap at MI
07/07/08	69090	17:45:59 - 17:53:41	gap at CM
07/07/08	69091	18:58:20 - 19:03:08	gap at MA
07/07/08	69092	21:33:26 - 21:46:05	gap at MM
07/07/08	69092	20:31:36 - 20:45:19	gap at MA
07/07/08	69093	23:13:57 - 23:25:59	gap at MM
07/07/08	69085	09:07:50 - 09:08:59	gap at KS
07/07/08	69086	10:47:26 - 10:48:39	gap at KS
07/07/08	69087	12:26:48 - 12:27:59	gap at KS
07/07/08	69088	14:05:41 - 14:06:56	gap at KS
07/07/08	69089	15:43:38 - 15:44:55	gap at KS
07/07/08	69090	17:21:29 - 17:22:44	gap at KS
07/07/08	69089	15:56:03 - 15:57:04	gap at GS
07/07/08	69086	11:00:39 - 11:01:55	gap at MS
07/07/08	69087	12:40:15 - 12:41:26	gap at MS
07/07/08	69094	23:49:28 - 23:50:28	gap at MS
07/07/08	69082	03:41:49 - 03:42:58	gap at MI
07/07/08	69081	02:33:25 - 02:34:42	gap at BE
07/07/08	69082	04:24:37 - 04:30:30	gap at SG
08/07/08	69094	00:55:31 - 01:06:06	gap at MM
08/07/08	69094	00:06:32 - 00:11:21	gap at KS
08/07/08	69095	02:02:35 - 02:14:31	gap at BE
08/07/08	69096	03:41:38 - 03:54:27	gap at BE
08/07/08	69096	03:10:49 - 03:21:07	gap at CM
08/07/08	69096	04:49:32 - 05:00:37	gap at CM
08/07/08	69099	09:25:01 - 09:35:21	gap at MM
08/07/08	69100	11:05:10 - 11:17:03	gap at MM
08/07/08	69102	14:33:55 - 14:45:36	gap at HO
08/07/08	69102	14:48:28 - 15:01:24	gap at SG
08/07/08	69103	14:58:46 - 15:11:09	gap at BE
08/07/08	69103	16:04:10 - 16:16:45	gap at MM
08/07/08	69103	16:28:26 - 16:39:39	gap at SG
08/07/08	69103	15:34:29 - 15:44:53	gap at CM
08/07/08	69104	17:43:21 - 17:55:53	gap at MM
08/07/08	69104	17:11:08 - 17:21:33	gap at MI
08/07/08	69104	17:13:23 - 17:24:21	gap at CM
08/07/08	69105	19:22:31 - 19:35:11	gap at MM
08/07/08	69106	21:02:01 - 21:14:44	gap at MM
08/07/08	69107	22:34:19 - 22:46:50	gap at HO
08/07/08	69107	22:42:15 - 22:54:34	gap at MM
08/07/08	69107	21:40:35 - 21:53:13	gap at MA
08/07/08	69099	08:36:31 - 08:37:40	gap at KS
08/07/08	69100	10:16:09 - 10:17:20	gap at KS
08/07/08	69101	11:55:37 - 11:56:52	gap at KS
08/07/08	69102	13:34:37 - 13:35:48	gap at KS
08/07/08	69103	15:12:59 - 15:14:28	gap at KS
08/07/08	69104	16:50:36 - 16:51:57	gap at KS
08/07/08	69105	18:28:38 - 18:29:52	gap at KS

08/07/08	69103	15:24:54 - 15:26:01	gap at GS
08/07/08	69094	23:49:28 - 23:50:28	gap at MS
08/07/08	69100	10:30:22 - 10:31:38	gap at MS
08/07/08	69101	12:08:38 - 12:10:06	gap at MS
08/07/08	69106	20:00:52 - 20:02:09	gap at MA
08/07/08	69103	15:35:26 - 15:43:52	gap at MI
08/07/08	69095	02:22:59 - 02:25:04	gap at SG
08/07/08	69096	04:02:25 - 04:06:04	gap at SG
09/07/08	69108	00:12:03 - 00:26:41	gap at HO
09/07/08	69108	00:23:28 - 00:34:37	gap at MM
09/07/08	69109	01:55:11 - 02:04:13	gap at HO
09/07/08	69110	03:10:14 - 03:23:37	gap at BE
09/07/08	69110	03:21:15 - 03:35:06	gap at SG
09/07/08	69110	02:42:01 - 02:48:03	gap at CM
09/07/08	69110	04:17:40 - 04:29:59	gap at CM
09/07/08	69111	04:51:07 - 04:59:43	gap at BE
09/07/08	69113	08:53:29 - 09:03:10	gap at MM
09/07/08	69114	10:33:42 - 10:45:12	gap at MM
09/07/08	69115	11:34:12 - 11:41:40	gap at MA
09/07/08	69117	14:26:56 - 14:40:13	gap at BE
09/07/08	69117	15:32:58 - 15:45:35	gap at MM
09/07/08	69117	15:05:28 - 15:11:15	gap at CM
09/07/08	69118	17:12:12 - 17:24:44	gap at MM
09/07/08	69118	16:41:39 - 16:53:55	gap at CM
09/07/08	69119	18:51:20 - 19:03:57	gap at MM
09/07/08	69120	20:30:41 - 20:43:25	gap at MM
09/07/08	69120	19:30:36 - 19:42:13	gap at MA
09/07/08	69122	23:41:02 - 23:55:25	gap at HO
09/07/08	69122	23:51:33 - 00:03:09	gap at MM
09/07/08	69113	08:05:13 - 08:06:22	gap at KS
09/07/08	69114	09:44:50 - 09:46:02	gap at KS
09/07/08	69115	11:24:23 - 11:25:38	gap at KS
09/07/08	69116	13:03:35 - 13:04:45	gap at KS
09/07/08	69117	14:42:17 - 14:43:32	gap at KS
09/07/08	69118	16:19:57 - 16:21:13	gap at KS
09/07/08	69119	17:57:47 - 17:59:20	gap at KS
09/07/08	69118	16:33:04 - 16:34:07	gap at GS
09/07/08	69115	11:37:20 - 11:38:40	gap at MS
09/07/08	69116	13:18:32 - 13:19:43	gap at MS
09/07/08	69122	22:46:41 - 22:48:32	gap at MS
09/07/08	69121	21:08:48 - 21:10:09	gap at MA
09/07/08	69117	15:56:15 - 15:57:29	gap at SG
10/07/08	69122	23:51:33 - 00:03:09	gap at MM
10/07/08	69124	03:46:34 - 03:58:46	gap at CM
10/07/08	69125	04:19:03 - 04:30:12	gap at BE
10/07/08	69125	04:59:22 - 05:05:12	gap at MM
10/07/08	69126	06:41:10 - 06:47:49	gap at MM
10/07/08	69126	05:55:25 - 05:59:51	gap at KS

10/07/08	69126	05:28:48 - 05:35:21	gap at CM
10/07/08	69127	08:21:56 - 08:30:53	gap at MM
10/07/08	69128	10:02:14 - 10:13:15	gap at MM
10/07/08	69129	11:42:18 - 11:54:33	gap at MM
10/07/08	69131	13:55:39 - 14:09:01	gap at BE
10/07/08	69132	15:37:19 - 15:47:07	gap at BE
10/07/08	69132	16:41:02 - 16:53:34	gap at MM
10/07/08	69134	19:59:25 - 20:12:08	gap at MM
10/07/08	69135	20:37:14 - 20:50:54	gap at MA
10/07/08	69136	23:19:43 - 23:31:42	gap at MM
10/07/08	69128	09:13:32 - 09:14:42	gap at KS
10/07/08	69129	10:53:08 - 10:54:20	gap at KS
10/07/08	69130	12:32:28 - 12:33:38	gap at KS
10/07/08	69131	14:11:20 - 14:12:36	gap at KS
10/07/08	69132	15:49:13 - 15:50:26	gap at KS
10/07/08	69133	17:27:07 - 17:28:22	gap at KS
10/07/08	69129	11:06:16 - 11:07:35	gap at MS
10/07/08	69130	12:46:07 - 12:47:17	gap at MS
10/07/08	69134	19:03:23 - 19:06:12	gap at MA
10/07/08	69125	03:47:33 - 03:49:17	gap at MI
10/07/08	69133	18:20:10 - 18:21:30	gap at MM
10/07/08	69135	21:39:09 - 21:40:34	gap at MM
10/07/08	69124	02:39:03 - 02:40:27	gap at BE
10/07/08	69124	02:50:32 - 02:51:38	gap at SG
10/07/08	69125	04:30:32 - 04:31:35	gap at SG
10/07/08	69131	15:24:48 - 15:25:57	gap at SG
11/07/08	69137	00:12:47 - 00:16:50	gap at KS
11/07/08	69139	03:47:22 - 04:00:00	gap at BE
11/07/08	69140	05:04:04 - 05:17:56	gap at PS
11/07/08	69141	07:50:20 - 07:58:32	gap at MM
11/07/08	69141	06:46:35 - 06:56:22	gap at PS
11/07/08	69142	09:30:44 - 09:41:11	gap at MM
11/07/08	69143	11:10:52 - 11:22:50	gap at MM
11/07/08	69145	14:30:27 - 14:43:10	gap at MM
11/07/08	69146	15:04:37 - 15:16:44	gap at BE
11/07/08	69146	16:09:51 - 16:22:25	gap at MM
11/07/08	69147	17:49:01 - 18:01:33	gap at MM
11/07/08	69148	19:28:11 - 19:40:52	gap at MM
11/07/08	69148	18:48:47 - 19:02:22	gap at PS
11/07/08	69149	20:28:52 - 20:38:50	gap at PS
11/07/08	69150	22:39:46 - 22:52:34	gap at HO
11/07/08	69150	22:48:00 - 23:00:16	gap at MM
11/07/08	69142	08:42:13 - 08:43:22	gap at KS
11/07/08	69143	10:21:50 - 10:23:03	gap at KS
11/07/08	69144	12:01:17 - 12:02:33	gap at KS
11/07/08	69145	13:40:16 - 13:41:28	gap at KS
11/07/08	69146	15:18:30 - 15:20:04	gap at KS
11/07/08	69147	16:56:11 - 16:57:29	gap at KS

11/07/08	69148	18:34:16 - 18:35:27	gap at KS
11/07/08	69143	10:35:51 - 10:37:10	gap at MS
11/07/08	69144	12:14:24 - 12:15:39	gap at MS
11/07/08	69149	20:06:25 - 20:07:41	gap at MA
11/07/08	69150	21:47:01 - 21:48:13	gap at MA
11/07/08	69138	02:08:10 - 02:09:33	gap at BE
11/07/08	69138	02:20:41 - 02:24:39	gap at SG
11/07/08	69139	03:58:21 - 04:06:06	gap at SG
12/07/08	69151	00:29:18 - 00:40:20	gap at MM
12/07/08	69152	02:11:39 - 02:20:39	gap at MM
12/07/08	69153	03:26:54 - 03:40:47	gap at SG
12/07/08	69154	04:57:01 - 05:04:59	gap at BE
12/07/08	69155	07:18:41 - 07:26:08	gap at MM
12/07/08	69156	08:59:13 - 09:09:01	gap at MM
12/07/08	69156	08:20:07 - 08:31:15	gap at MA
12/07/08	69157	10:39:26 - 10:51:00	gap at MM
12/07/08	69158	11:40:00 - 11:46:53	gap at MA
12/07/08	69160	14:32:41 - 14:45:52	gap at BE
12/07/08	69160	15:38:38 - 15:51:15	gap at MM
12/07/08	69160	15:10:31 - 15:17:36	gap at CM
12/07/08	69161	17:17:52 - 17:30:23	gap at MM
12/07/08	69161	16:47:23 - 16:59:31	gap at CM
12/07/08	69162	18:57:00 - 19:09:38	gap at MM
12/07/08	69163	19:36:04 - 19:48:01	gap at MA
12/07/08	69164	22:09:58 - 22:20:56	gap at HO
12/07/08	69164	22:16:23 - 22:28:52	gap at MM
12/07/08	69165	23:57:20 - 00:08:52	gap at MM
12/07/08	69156	08:10:55 - 08:12:03	gap at KS
12/07/08	69157	09:50:32 - 09:51:43	gap at KS
12/07/08	69158	11:30:04 - 11:31:19	gap at KS
12/07/08	69159	13:09:14 - 13:10:24	gap at KS
12/07/08	69160	14:47:54 - 14:49:10	gap at KS
12/07/08	69161	16:25:34 - 16:26:50	gap at KS
12/07/08	69162	18:03:21 - 18:04:52	gap at KS
12/07/08	69157	10:06:04 - 10:07:07	gap at MS
12/07/08	69158	11:43:00 - 11:44:19	gap at MS
12/07/08	69159	13:24:37 - 13:25:45	gap at MS
12/07/08	69157	09:58:34 - 10:02:46	gap at MA
12/07/08	69164	21:14:32 - 21:15:59	gap at MA
12/07/08	69154	04:26:29 - 04:36:54	gap at MI
12/07/08	69160	15:11:21 - 15:17:36	gap at MI
12/07/08	69153	03:15:55 - 03:17:09	gap at BE
12/07/08	69159	14:30:40 - 14:34:58	gap at SG
12/07/08	69153	02:47:04 - 02:48:09	gap at CM
13/07/08	69165	23:46:41 - 00:01:06	gap at HO
13/07/08	69165	23:57:20 - 00:08:52	gap at MM
13/07/08	69166	01:39:22 - 01:49:05	gap at MM
13/07/08	69167	02:44:42 - 02:58:01	gap at BE

13/07/08	69167	03:52:10 - 04:04:29	gap at CM
13/07/08	69168	04:24:50 - 04:35:38	gap at BE
13/07/08	69169	06:46:57 - 06:53:43	gap at MM
13/07/08	69169	06:00:56 - 06:06:04	gap at KS
13/07/08	69169	05:35:14 - 05:40:19	gap at CM
13/07/08	69170	08:27:40 - 08:36:46	gap at MM
13/07/08	69171	10:07:58 - 10:19:04	gap at MM
13/07/08	69171	09:27:21 - 09:40:56	gap at MA
13/07/08	69172	11:57:24 - 12:10:38	gap at HO
13/07/08	69173	13:36:22 - 13:50:57	gap at HO
13/07/08	69174	14:01:18 - 14:14:42	gap at BE
13/07/08	69174	15:17:38 - 15:25:29	gap at HO
13/07/08	69175	15:43:23 - 15:52:33	gap at BE
13/07/08	69175	16:46:42 - 16:59:14	gap at MM
13/07/08	69175	16:16:07 - 16:28:28	gap at CM
13/07/08	69176	18:25:50 - 18:38:25	gap at MM
13/07/08	69176	17:58:21 - 18:03:46	gap at CM
13/07/08	69178	21:44:52 - 21:57:29	gap at MM
13/07/08	69179	23:15:43 - 23:29:47	gap at HO
13/07/08	69179	23:25:30 - 23:37:25	gap at MM
13/07/08	69179	22:26:36 - 22:34:29	gap at MA
13/07/08	69171	09:19:13 - 09:20:23	gap at KS
13/07/08	69172	10:58:49 - 11:00:01	gap at KS
13/07/08	69173	12:38:07 - 12:39:18	gap at KS
13/07/08	69174	14:16:58 - 14:18:12	gap at KS
13/07/08	69175	15:54:48 - 15:56:01	gap at KS
13/07/08	69176	17:32:42 - 17:34:00	gap at KS
13/07/08	69172	11:11:53 - 11:13:08	gap at MS
13/07/08	69173	12:51:59 - 12:53:06	gap at MS
13/07/08	69177	19:08:33 - 19:09:49	gap at MA
13/07/08	69178	20:42:54 - 20:44:21	gap at MA
13/07/08	69168	03:53:18 - 03:55:03	gap at MI
13/07/08	69167	02:56:04 - 03:04:41	gap at SG
13/07/08	69168	04:36:30 - 04:41:12	gap at SG
13/07/08	69174	15:30:28 - 15:31:40	gap at SG
14/07/08	69180	00:55:21 - 01:09:00	gap at HO
14/07/08	69180	01:07:11 - 01:17:33	gap at MM
14/07/08	69180	00:19:08 - 00:22:13	gap at KS
14/07/08	69182	03:53:06 - 04:05:32	gap at BE
14/07/08	69182	03:21:41 - 03:32:48	gap at CM
14/07/08	69182	05:01:21 - 05:11:32	gap at CM
14/07/08	69183	06:15:08 - 06:21:20	gap at MM
14/07/08	69184	07:56:05 - 08:04:25	gap at MM
14/07/08	69187	13:05:03 - 13:19:53	gap at HO
14/07/08	69188	14:36:08 - 14:48:51	gap at MM
14/07/08	69188	14:59:32 - 15:12:58	gap at SG
14/07/08	69189	15:10:30 - 15:22:18	gap at BE
14/07/08	69189	16:15:31 - 16:28:05	gap at MM

14/07/08	69191	19:33:52 - 19:46:33	gap at MM
14/07/08	69192	20:11:59 - 20:25:42	gap at MA
14/07/08	69193	22:53:46 - 23:05:59	gap at MM
14/07/08	69193	21:52:54 - 22:04:22	gap at MA
14/07/08	69185	08:47:54 - 08:49:04	gap at KS
14/07/08	69186	10:27:32 - 10:28:44	gap at KS
14/07/08	69187	12:06:58 - 12:08:10	gap at KS
14/07/08	69188	13:45:54 - 13:47:09	gap at KS
14/07/08	69189	15:24:04 - 15:25:37	gap at KS
14/07/08	69190	17:01:47 - 17:03:03	gap at KS
14/07/08	69191	18:39:54 - 18:41:01	gap at KS
14/07/08	69189	15:36:12 - 15:37:14	gap at GS
14/07/08	69186	10:41:22 - 10:42:38	gap at MS
14/07/08	69187	12:20:09 - 12:21:28	gap at MS
14/07/08	69194	23:29:13 - 23:30:27	gap at MS
14/07/08	69182	03:21:56 - 03:22:56	gap at MI
14/07/08	69190	17:54:41 - 17:56:06	gap at MM
14/07/08	69181	02:13:45 - 02:23:57	gap at BE
14/07/08	69182	04:04:09 - 04:05:20	gap at SG
15/07/08	69194	00:35:07 - 00:46:04	gap at MM
15/07/08	69195	01:43:12 - 01:53:46	gap at BE
15/07/08	69195	02:07:51 - 02:13:39	gap at HO
15/07/08	69197	05:43:11 - 05:49:02	gap at MM
15/07/08	69198	07:24:26 - 07:32:02	gap at MM
15/07/08	69200	10:45:09 - 10:56:48	gap at MM
15/07/08	69201	11:45:54 - 11:52:02	gap at MA
15/07/08	69202	14:04:51 - 14:17:35	gap at MM
15/07/08	69203	14:38:27 - 14:51:30	gap at BE
15/07/08	69203	15:44:19 - 15:56:55	gap at MM
15/07/08	69204	17:23:32 - 17:36:03	gap at MM
15/07/08	69206	20:42:04 - 20:54:48	gap at MM
15/07/08	69206	19:41:33 - 19:53:48	gap at MA
15/07/08	69207	22:15:19 - 22:26:43	gap at HO
15/07/08	69207	22:22:08 - 22:34:35	gap at MM
15/07/08	69199	08:16:36 - 08:17:45	gap at KS
15/07/08	69200	09:56:14 - 09:57:24	gap at KS
15/07/08	69201	11:35:45 - 11:37:00	gap at KS
15/07/08	69202	13:14:53 - 13:16:02	gap at KS
15/07/08	69203	14:53:31 - 14:54:46	gap at KS
15/07/08	69204	16:31:09 - 16:32:24	gap at KS
15/07/08	69205	18:08:58 - 18:10:22	gap at KS
15/07/08	69200	10:11:18 - 10:12:34	gap at MS
15/07/08	69201	11:48:38 - 11:49:56	gap at MS
15/07/08	69207	21:20:18 - 21:21:44	gap at MA
15/07/08	69196	03:00:12 - 03:03:49	gap at MI
15/07/08	69205	19:02:40 - 19:03:40	gap at MM
15/07/08	69196	03:21:37 - 03:22:53	gap at BE
15/07/08	69196	03:32:34 - 03:38:17	gap at SG

15/07/08	69202	14:29:21 - 14:30:48	gap at SG
16/07/08	69208	00:03:09 - 00:14:35	gap at MM
16/07/08	69210	03:57:48 - 04:10:11	gap at CM
16/07/08	69211	04:30:39 - 04:41:02	gap at BE
16/07/08	69211	05:11:05 - 05:16:52	gap at MM
16/07/08	69212	06:52:44 - 06:59:37	gap at MM
16/07/08	69212	06:06:28 - 06:12:13	gap at KS
16/07/08	69213	07:55:59 - 08:01:45	gap at MA
16/07/08	69215	12:03:02 - 12:16:30	gap at HO
16/07/08	69216	13:33:32 - 13:46:15	gap at MM
16/07/08	69217	14:06:58 - 14:20:23	gap at BE
16/07/08	69217	15:13:05 - 15:25:44	gap at MM
16/07/08	69218	15:49:31 - 15:57:56	gap at BE
16/07/08	69219	18:31:30 - 18:44:05	gap at MM
16/07/08	69219	17:53:35 - 18:03:24	gap at GS
16/07/08	69220	20:10:47 - 20:23:30	gap at MM
16/07/08	69220	19:13:16 - 19:21:17	gap at MA
16/07/08	69220	19:31:35 - 19:44:07	gap at PS
16/07/08	69221	21:46:15 - 21:54:40	gap at HO
16/07/08	69221	21:50:36 - 22:03:12	gap at MM
16/07/08	69221	20:48:34 - 21:02:17	gap at MA
16/07/08	69221	21:12:03 - 21:19:06	gap at PS
16/07/08	69222	23:21:18 - 23:35:29	gap at HO
16/07/08	69222	23:31:17 - 23:43:08	gap at MM
16/07/08	69222	22:32:49 - 22:39:50	gap at MA
16/07/08	69214	09:24:55 - 09:26:05	gap at KS
16/07/08	69215	11:04:30 - 11:05:42	gap at KS
16/07/08	69216	12:43:47 - 12:44:59	gap at KS
16/07/08	69217	14:22:36 - 14:23:52	gap at KS
16/07/08	69218	16:00:23 - 16:01:36	gap at KS
16/07/08	69219	17:38:18 - 17:39:33	gap at KS
16/07/08	69215	11:17:31 - 11:18:49	gap at MS
16/07/08	69216	12:57:51 - 12:59:02	gap at MS
16/07/08	69222	22:27:13 - 22:28:40	gap at MS
16/07/08	69211	03:59:05 - 04:00:54	gap at MI
16/07/08	69217	14:47:40 - 14:50:38	gap at MI
16/07/08	69218	16:24:12 - 16:32:11	gap at MI
16/07/08	69210	02:50:22 - 02:51:33	gap at BE
16/07/08	69210	03:01:37 - 03:02:51	gap at SG
16/07/08	69210	03:07:09 - 03:15:05	gap at SG
17/07/08	69223	01:01:10 - 01:14:35	gap at HO
17/07/08	69225	03:58:51 - 04:11:03	gap at BE
17/07/08	69225	04:38:50 - 04:44:50	gap at MM
17/07/08	69225	05:07:20 - 05:16:57	gap at CM
17/07/08	69226	06:20:55 - 06:27:13	gap at MM
17/07/08	69227	06:53:21 - 07:53:35	gap at JO
17/07/08	69228	09:19:17 - 09:32:14	gap at JO
17/07/08	69230	13:02:11 - 13:14:52	gap at MM

17/07/08	69231	14:41:50 - 14:54:32	gap at MM
17/07/08	69232	15:16:24 - 15:27:51	gap at BE
17/07/08	69233	18:00:21 - 18:12:54	gap at MM
17/07/08	69234	18:44:46 - 18:48:51	gap at MA
17/07/08	69234	19:59:17 - 20:13:14	gap at JO
17/07/08	69235	21:19:09 - 21:31:50	gap at MM
17/07/08	69235	20:17:34 - 20:31:22	gap at MA
17/07/08	69235	20:25:05 - 20:38:54	gap at KS
17/07/08	69235	20:40:21 - 20:49:38	gap at PS
17/07/08	69236	22:59:32 - 23:11:42	gap at MM
17/07/08	69236	21:57:13 - 22:07:39	gap at MS
17/07/08	69236	21:58:48 - 22:09:54	gap at MA
17/07/08	69236	22:06:38 - 22:18:30	gap at KS
17/07/08	69237	23:34:58 - 23:48:05	gap at MS
17/07/08	69237	23:51:09 - 23:57:28	gap at KS
17/07/08	69228	08:53:36 - 08:54:45	gap at KS
17/07/08	69229	10:33:13 - 10:34:25	gap at KS
17/07/08	69230	12:12:38 - 12:13:49	gap at KS
17/07/08	69231	13:51:32 - 13:52:47	gap at KS
17/07/08	69232	15:29:40 - 15:31:05	gap at KS
17/07/08	69233	17:07:22 - 17:08:38	gap at KS
17/07/08	69234	18:45:33 - 18:46:38	gap at KS
17/07/08	69229	10:46:51 - 10:48:07	gap at MS
17/07/08	69230	12:25:52 - 12:27:12	gap at MS
17/07/08	69229	10:41:16 - 10:42:32	gap at MA
17/07/08	69225	03:27:35 - 03:30:24	gap at MI
17/07/08	69233	17:32:03 - 17:37:24	gap at MI
17/07/08	69224	02:19:21 - 02:23:07	gap at BE
17/07/08	69224	02:31:24 - 02:39:11	gap at SG
17/07/08	69225	04:09:58 - 04:17:30	gap at SG
17/07/08	69231	15:05:07 - 15:06:11	gap at SG
17/07/08	69232	15:50:58 - 15:55:33	gap at CM
17/07/08	69233	17:31:01 - 17:32:29	gap at CM
18/07/08	69237	00:40:56 - 00:51:47	gap at MM
18/07/08	69238	01:48:43 - 01:59:44	gap at BE
18/07/08	69238	02:23:24 - 02:32:08	gap at MM
18/07/08	69239	03:27:20 - 03:40:30	gap at BE
18/07/08	69239	04:06:29 - 04:12:57	gap at MM
18/07/08	69239	02:56:44 - 03:09:34	gap at MI
18/07/08	69240	05:49:00 - 05:54:54	gap at MM
18/07/08	69240	04:37:18 - 04:47:49	gap at MI
18/07/08	69241	07:30:12 - 07:37:55	gap at MM
18/07/08	69242	09:10:41 - 09:20:44	gap at MM
18/07/08	69242	08:47:08 - 09:01:41	gap at JO
18/07/08	69243	10:50:52 - 11:02:36	gap at MM
18/07/08	69243	10:09:59 - 10:22:53	gap at MA
18/07/08	69244	12:30:49 - 12:43:23	gap at MM
18/07/08	69245	14:10:32 - 14:23:16	gap at MM

18/07/08	69246	14:44:14 - 14:57:07	gap at BE
18/07/08	69246	15:49:59 - 16:02:35	gap at MM
18/07/08	69246	15:16:58 - 15:29:21	gap at MI
18/07/08	69246	16:13:41 - 16:26:05	gap at SG
18/07/08	69247	17:29:12 - 17:41:43	gap at MM
18/07/08	69247	16:56:30 - 17:08:04	gap at MI
18/07/08	69248	19:08:20 - 19:20:59	gap at MM
18/07/08	69248	19:29:04 - 19:40:41	gap at JO
18/07/08	69249	20:47:46 - 21:00:30	gap at MM
18/07/08	69249	19:47:03 - 19:59:41	gap at MA
18/07/08	69249	21:07:00 - 21:21:48	gap at JO
18/07/08	69250	22:27:52 - 22:40:17	gap at MM
18/07/08	69251	23:57:58 - 00:12:29	gap at HO
18/07/08	69251	23:03:33 - 23:17:02	gap at MS
18/07/08	69251	23:17:51 - 23:26:33	gap at KS
18/07/08	69242	08:22:18 - 08:23:27	gap at KS
18/07/08	69243	10:01:55 - 10:03:06	gap at KS
18/07/08	69244	11:41:26 - 11:42:41	gap at KS
18/07/08	69245	13:20:31 - 13:21:42	gap at KS
18/07/08	69246	14:59:05 - 15:00:23	gap at KS
18/07/08	69247	16:36:42 - 16:37:57	gap at KS
18/07/08	69248	18:14:35 - 18:16:00	gap at KS
18/07/08	69243	10:16:43 - 10:17:59	gap at MS
18/07/08	69244	11:54:16 - 11:55:35	gap at MS
18/07/08	69244	11:51:59 - 11:54:13	gap at MA
18/07/08	69250	21:26:04 - 21:28:43	gap at MA
19/07/08	69251	00:08:57 - 00:20:18	gap at MM
19/07/08	69252	01:51:06 - 02:00:33	gap at MM
19/07/08	69253	02:56:02 - 03:09:26	gap at BE
19/07/08	69253	03:34:05 - 03:41:11	gap at MM
19/07/08	69253	02:26:35 - 02:37:42	gap at MI
19/07/08	69253	02:30:09 - 02:43:53	gap at GS
19/07/08	69253	04:03:27 - 04:15:52	gap at CM
19/07/08	69254	04:36:28 - 04:46:25	gap at BE
19/07/08	69254	05:16:55 - 05:22:42	gap at MM
19/07/08	69254	04:04:52 - 04:17:32	gap at MI
19/07/08	69254	04:10:51 - 04:22:43	gap at GS
19/07/08	69255	06:58:30 - 07:05:30	gap at MM
19/07/08	69255	05:53:13 - 06:06:01	gap at PS
19/07/08	69255	06:12:03 - 06:18:17	gap at KS
19/07/08	69256	08:39:09 - 08:48:30	gap at MM
19/07/08	69256	07:51:01 - 08:02:53	gap at KS
19/07/08	69256	08:01:42 - 08:10:09	gap at MA
19/07/08	69256	08:15:39 - 08:30:41	gap at JO
19/07/08	69257	10:19:24 - 10:30:42	gap at MM
19/07/08	69257	09:30:36 - 09:44:26	gap at KS
19/07/08	69257	09:38:41 - 09:52:21	gap at MA
19/07/08	69258	11:59:26 - 12:11:49	gap at MM

19/07/08	69258	11:10:11 - 11:23:58	gap at KS
19/07/08	69258	11:19:35 - 11:28:08	gap at MA
19/07/08	69259	13:39:14 - 13:51:57	gap at MM
19/07/08	69259	12:49:27 - 13:02:09	gap at KS
19/07/08	69260	14:12:39 - 14:26:04	gap at BE
19/07/08	69260	15:18:46 - 15:31:25	gap at MM
19/07/08	69260	14:46:51 - 14:56:43	gap at MI
19/07/08	69260	14:40:00 - 14:50:53	gap at GS
19/07/08	69261	15:55:42 - 16:03:16	gap at BE
19/07/08	69261	16:58:02 - 17:10:34	gap at MM
19/07/08	69261	16:24:45 - 16:37:46	gap at MI
19/07/08	69261	16:27:25 - 16:39:50	gap at CM
19/07/08	69262	18:37:10 - 18:49:46	gap at MM
19/07/08	69263	20:16:28 - 20:29:12	gap at MM
19/07/08	69263	19:19:03 - 19:27:39	gap at MA
19/07/08	69264	21:51:29 - 22:00:32	gap at HO
19/07/08	69264	21:56:19 - 22:08:54	gap at MM
19/07/08	69264	20:54:15 - 21:07:57	gap at MA
19/07/08	69264	22:16:33 - 22:27:23	gap at JO
19/07/08	69265	23:37:04 - 23:48:51	gap at MM
19/07/08	69265	22:39:11 - 22:45:05	gap at MA
19/07/08	69260	14:28:14 - 14:29:28	gap at KS
19/07/08	69261	16:05:58 - 16:07:11	gap at KS
19/07/08	69262	17:43:53 - 17:45:09	gap at KS
19/07/08	69258	11:23:09 - 11:24:27	gap at MS
19/07/08	69259	13:03:45 - 13:05:05	gap at MS
19/07/08	69265	22:32:45 - 22:33:48	gap at MS
20/07/08	69267	03:01:40 - 03:09:30	gap at MM
20/07/08	69267	02:36:50 - 02:48:54	gap at SG
20/07/08	69267	03:32:40 - 03:44:24	gap at CM
20/07/08	69268	04:04:36 - 04:16:33	gap at BE
20/07/08	69268	04:44:42 - 04:50:39	gap at MM
20/07/08	69268	04:15:48 - 04:28:08	gap at SG
20/07/08	69268	05:13:22 - 05:22:18	gap at CM
20/07/08	69269	06:26:43 - 06:33:06	gap at MM
20/07/08	69271	09:07:51 - 09:20:22	gap at MA
20/07/08	69272	11:28:01 - 11:40:09	gap at MM
20/07/08	69272	10:47:02 - 10:58:23	gap at MA
20/07/08	69273	13:07:53 - 13:20:34	gap at MM
20/07/08	69275	15:22:20 - 15:33:23	gap at BE
20/07/08	69275	15:56:31 - 16:08:20	gap at CM
20/07/08	69276	17:36:57 - 17:45:51	gap at CM
20/07/08	69277	19:45:13 - 19:57:55	gap at MM
20/07/08	69277	18:50:20 - 18:54:34	gap at MA
20/07/08	69277	20:04:51 - 20:19:04	gap at JO
20/07/08	69278	21:24:51 - 21:37:32	gap at MM
20/07/08	69278	20:23:10 - 20:36:57	gap at MA
20/07/08	69278	21:44:23 - 21:57:46	gap at JO

20/07/08	69279	22:56:27 - 23:09:45	gap at HO
20/07/08	69279	22:05:21 - 22:15:25	gap at MA
20/07/08	69271	08:59:17 - 09:00:28	gap at KS
20/07/08	69272	10:38:54 - 10:40:06	gap at KS
20/07/08	69273	12:18:18 - 12:19:29	gap at KS
20/07/08	69274	13:57:12 - 13:58:28	gap at KS
20/07/08	69275	15:35:15 - 15:36:38	gap at KS
20/07/08	69276	17:13:03 - 17:14:19	gap at KS
20/07/08	69277	18:51:11 - 18:52:13	gap at KS
20/07/08	69267	01:59:24 - 02:00:34	gap at GS
20/07/08	69274	14:09:41 - 14:17:48	gap at GS
20/07/08	69272	10:52:20 - 10:53:31	gap at MS
20/07/08	69273	12:31:36 - 12:32:54	gap at MS
20/07/08	69268	03:33:16 - 03:35:35	gap at MI
20/07/08	69275	15:59:41 - 16:06:47	gap at MI
20/07/08	69276	18:06:01 - 18:07:31	gap at MM
20/07/08	69267	02:24:58 - 02:26:18	gap at BE
20/07/08	69274	15:10:43 - 15:11:51	gap at SG
20/07/08	69274	15:18:34 - 15:24:27	gap at SG
20/07/08	69270	07:44:45 - 07:46:08	gap at JO
20/07/08	69270	07:58:06 - 07:59:20	gap at JO
20/07/08	69271	09:25:13 - 09:26:44	gap at JO
21/07/08	69280	00:34:57 - 00:49:22	gap at HO
21/07/08	69281	01:54:15 - 02:05:40	gap at BE
21/07/08	69281	02:29:17 - 02:37:52	gap at MM
21/07/08	69282	04:12:22 - 04:18:44	gap at MM
21/07/08	69282	03:43:59 - 03:57:41	gap at SG
21/07/08	69282	03:02:46 - 03:12:16	gap at CM
21/07/08	69282	04:40:45 - 04:52:20	gap at CM
21/07/08	69283	05:54:49 - 06:00:46	gap at MM
21/07/08	69285	08:36:49 - 08:49:02	gap at MA
21/07/08	69286	10:56:35 - 11:08:23	gap at MM
21/07/08	69286	10:15:42 - 10:28:11	gap at MA
21/07/08	69287	12:36:32 - 12:49:07	gap at MM
21/07/08	69288	14:25:15 - 14:37:34	gap at HO
21/07/08	69288	14:16:14 - 14:28:57	gap at MM
21/07/08	69288	14:40:14 - 14:52:39	gap at SG
21/07/08	69289	14:50:02 - 15:02:44	gap at BE
21/07/08	69289	15:26:21 - 15:35:56	gap at CM
21/07/08	69290	17:34:52 - 17:47:23	gap at MM
21/07/08	69290	17:04:40 - 17:16:08	gap at CM
21/07/08	69291	19:14:01 - 19:26:40	gap at MM
21/07/08	69291	19:34:30 - 19:46:40	gap at JO
21/07/08	69292	20:53:28 - 21:06:12	gap at MM
21/07/08	69292	19:52:34 - 20:05:33	gap at MA
21/07/08	69292	21:12:43 - 21:27:24	gap at JO
21/07/08	69293	22:26:09 - 22:38:14	gap at HO
21/07/08	69293	22:33:37 - 22:46:00	gap at MM

21/07/08	69293	21:31:52 - 21:44:50	gap at MA
21/07/08	69289	15:04:40 - 15:06:01	gap at KS
21/07/08	69290	16:42:16 - 16:43:32	gap at KS
21/07/08	69291	18:20:12 - 18:21:29	gap at KS
21/07/08	69285	08:27:59 - 08:29:08	gap at KS
21/07/08	69286	10:07:37 - 10:08:49	gap at KS
21/07/08	69287	11:47:06 - 11:48:22	gap at KS
21/07/08	69288	13:26:10 - 13:27:20	gap at KS
21/07/08	69286	10:22:09 - 10:23:26	gap at MS
21/07/08	69287	12:00:02 - 12:01:18	gap at MS
21/07/08	69282	03:11:16 - 03:15:18	gap at MI
21/07/08	69282	03:33:02 - 03:34:19	gap at BE
21/07/08	69288	14:40:14 - 14:43:08	gap at SG
21/07/08	69284	07:14:27 - 07:19:18	gap at JO
21/07/08	69285	08:52:56 - 08:57:18	gap at JO
21/07/08	69292	21:12:43 - 21:24:18	gap at JO
22/07/08	69295	01:56:58 - 02:06:18	gap at MM
22/07/08	69296	03:01:42 - 03:15:07	gap at BE
22/07/08	69296	03:39:58 - 03:46:57	gap at MM
22/07/08	69297	04:42:19 - 04:51:45	gap at BE
22/07/08	69297	05:22:46 - 05:28:32	gap at MM
22/07/08	69298	05:59:04 - 06:11:39	gap at PS
22/07/08	69298	06:17:38 - 06:24:18	gap at KS
22/07/08	69298	06:44:57 - 06:55:21	gap at JO
22/07/08	69299	07:56:42 - 08:08:45	gap at KS
22/07/08	69299	08:06:33 - 08:16:14	gap at MA
22/07/08	69299	08:21:20 - 08:36:21	gap at JO
22/07/08	69300	10:25:08 - 10:36:30	gap at MM
22/07/08	69300	09:44:21 - 09:58:02	gap at MA
22/07/08	69300	10:05:02 - 10:12:16	gap at JO
22/07/08	69301	12:05:08 - 12:17:34	gap at MM
22/07/08	69301	11:25:28 - 11:33:40	gap at MA
22/07/08	69302	13:44:55 - 13:57:39	gap at MM
22/07/08	69303	14:18:21 - 14:31:44	gap at BE
22/07/08	69303	14:52:15 - 15:02:44	gap at MI
22/07/08	69304	16:02:00 - 16:08:31	gap at BE
22/07/08	69304	16:30:29 - 16:43:20	gap at MI
22/07/08	69305	18:42:50 - 18:55:26	gap at MM
22/07/08	69305	19:05:16 - 19:12:58	gap at JO
22/07/08	69306	20:22:09 - 20:34:53	gap at MM
22/07/08	69306	19:24:22 - 19:33:29	gap at MA
22/07/08	69306	19:43:02 - 19:55:08	gap at PS
22/07/08	69306	20:41:24 - 20:56:25	gap at JO
22/07/08	69307	21:00:04 - 21:13:37	gap at MA
22/07/08	69307	22:22:29 - 22:32:38	gap at JO
22/07/08	69308	23:42:51 - 23:54:34	gap at MM
22/07/08	69308	22:45:40 - 22:50:13	gap at MA
22/07/08	69300	09:36:18 - 09:37:29	gap at KS

22/07/08	69301	11:15:52 - 11:17:04	gap at KS
22/07/08	69302	12:55:06 - 12:56:16	gap at KS
22/07/08	69303	14:33:51 - 14:35:07	gap at KS
22/07/08	69304	16:11:32 - 16:12:46	gap at KS
22/07/08	69305	17:49:27 - 17:50:50	gap at KS
22/07/08	69306	19:28:00 - 19:29:10	gap at KS
22/07/08	69301	11:28:48 - 11:30:07	gap at MS
22/07/08	69302	13:09:38 - 13:10:53	gap at MS
22/07/08	69297	04:10:42 - 04:12:28	gap at MI
22/07/08	69307	22:02:03 - 22:03:03	gap at MM
22/07/08	69296	03:12:48 - 03:13:52	gap at SG
22/07/08	69303	15:47:36 - 15:49:03	gap at SG
23/07/08	69309	01:24:44 - 01:34:45	gap at MM
23/07/08	69310	03:07:33 - 03:15:15	gap at MM
23/07/08	69310	02:02:41 - 02:11:05	gap at MI
23/07/08	69310	03:38:13 - 03:50:10	gap at CM
23/07/08	69311	04:10:23 - 04:22:02	gap at BE
23/07/08	69311	04:50:34 - 04:56:28	gap at MM
23/07/08	69312	05:27:04 - 05:40:36	gap at PS
23/07/08	69312	05:19:28 - 05:27:36	gap at CM
23/07/08	69314	09:53:39 - 10:04:31	gap at MM
23/07/08	69314	09:13:33 - 09:26:20	gap at MA
23/07/08	69315	11:33:44 - 11:45:55	gap at MM
23/07/08	69315	10:52:48 - 11:03:51	gap at MA
23/07/08	69316	13:13:35 - 13:26:17	gap at MM
23/07/08	69317	15:16:20 - 15:30:09	gap at SG
23/07/08	69318	15:28:18 - 15:38:54	gap at BE
23/07/08	69318	16:32:32 - 16:45:04	gap at MM
23/07/08	69318	16:58:57 - 17:05:41	gap at SG
23/07/08	69319	18:11:41 - 18:24:14	gap at MM
23/07/08	69319	17:41:07 - 17:47:37	gap at MI
23/07/08	69319	17:42:57 - 17:51:05	gap at CM
23/07/08	69320	19:50:54 - 20:03:36	gap at MM
23/07/08	69320	18:55:53 - 19:00:17	gap at MA
23/07/08	69321	20:28:47 - 20:42:32	gap at MA
23/07/08	69322	23:11:04 - 23:23:07	gap at MM
23/07/08	69322	22:11:22 - 22:20:55	gap at MA
23/07/08	69314	09:04:59 - 09:06:09	gap at KS
23/07/08	69315	10:44:36 - 10:45:48	gap at KS
23/07/08	69316	12:23:58 - 12:25:10	gap at KS
23/07/08	69317	14:02:51 - 14:04:06	gap at KS
23/07/08	69318	15:40:50 - 15:42:08	gap at KS
23/07/08	69319	17:18:41 - 17:19:55	gap at KS
23/07/08	69309	00:18:57 - 00:20:04	gap at MS
23/07/08	69315	10:57:45 - 10:59:03	gap at MS
23/07/08	69316	12:37:22 - 12:38:31	gap at MS
23/07/08	69323	23:46:33 - 23:47:41	gap at MS
23/07/08	69311	03:38:58 - 03:40:31	gap at MI

23/07/08	69317	14:23:33 - 14:27:20	gap at MI
23/07/08	69321	21:30:34 - 21:31:46	gap at MM
23/07/08	69310	02:30:36 - 02:34:17	gap at BE
23/07/08	69310	02:42:17 - 02:47:37	gap at SG
23/07/08	69313	07:50:19 - 07:51:44	gap at JO
23/07/08	69314	09:31:11 - 09:32:43	gap at JO
23/07/08	69321	21:50:11 - 21:52:12	gap at JO
24/07/08	69323	00:52:36 - 01:03:14	gap at MM
24/07/08	69324	01:59:48 - 02:11:35	gap at BE
24/07/08	69324	02:35:10 - 02:43:37	gap at MM
24/07/08	69325	04:18:15 - 04:24:32	gap at MM
24/07/08	69325	03:49:43 - 04:03:17	gap at SG
24/07/08	69325	03:08:07 - 03:18:10	gap at CM
24/07/08	69325	04:46:36 - 04:57:51	gap at CM
24/07/08	69328	09:22:09 - 09:32:26	gap at MM
24/07/08	69328	08:42:36 - 08:54:54	gap at MA
24/07/08	69328	08:58:44 - 09:12:51	gap at JO
24/07/08	69329	11:02:18 - 11:14:10	gap at MM
24/07/08	69329	10:21:21 - 10:33:34	gap at MA
24/07/08	69330	12:42:14 - 12:54:50	gap at MM
24/07/08	69331	14:31:02 - 14:42:51	gap at HO
24/07/08	69332	14:55:51 - 15:08:21	gap at BE
24/07/08	69333	17:40:31 - 17:53:03	gap at MM
24/07/08	69334	19:19:41 - 19:32:20	gap at MM
24/07/08	69334	19:39:58 - 19:52:38	gap at JO
24/07/08	69335	20:59:10 - 21:11:53	gap at MM
24/07/08	69335	19:58:05 - 20:11:21	gap at MA
24/07/08	69336	22:31:35 - 22:43:58	gap at HO
24/07/08	69336	22:39:22 - 22:51:42	gap at MM
24/07/08	69336	21:37:41 - 21:50:26	gap at MA
24/07/08	69328	08:33:40 - 08:34:49	gap at KS
24/07/08	69329	10:13:18 - 10:14:30	gap at KS
24/07/08	69330	11:52:47 - 11:54:02	gap at KS
24/07/08	69331	13:31:48 - 13:32:58	gap at KS
24/07/08	69332	15:10:13 - 15:11:39	gap at KS
24/07/08	69333	16:47:50 - 16:49:08	gap at KS
24/07/08	69334	18:25:49 - 18:27:02	gap at KS
24/07/08	69332	15:22:04 - 15:23:56	gap at GS
24/07/08	69323	23:46:33 - 23:47:41	gap at MS
24/07/08	69329	10:27:38 - 10:28:57	gap at MS
24/07/08	69330	12:05:46 - 12:06:56	gap at MS
24/07/08	69332	15:35:17 - 15:40:58	gap at MI
24/07/08	69325	03:38:46 - 03:40:08	gap at BE
24/07/08	69331	14:45:43 - 14:49:02	gap at SG
24/07/08	69327	07:19:54 - 07:24:17	gap at JO
24/07/08	69335	21:18:27 - 21:22:57	gap at JO
25/07/08	69337	00:09:13 - 00:23:50	gap at HO
25/07/08	69337	00:20:34 - 00:31:45	gap at MM

25/07/08	69338	01:52:05 - 02:01:33	gap at HO
25/07/08	69338	02:02:50 - 02:12:02	gap at MM
25/07/08	69339	03:07:23 - 03:20:47	gap at BE
25/07/08	69339	03:18:25 - 03:32:16	gap at SG
25/07/08	69340	04:48:11 - 04:57:04	gap at BE
25/07/08	69341	07:10:02 - 07:17:17	gap at MM
25/07/08	69342	08:50:37 - 09:00:14	gap at MM
25/07/08	69342	08:11:57 - 08:22:16	gap at MA
25/07/08	69342	08:27:02 - 08:42:00	gap at JO
25/07/08	69343	10:30:51 - 10:42:18	gap at MM
25/07/08	69343	09:50:02 - 10:03:26	gap at MA
25/07/08	69344	12:10:51 - 12:23:18	gap at MM
25/07/08	69344	11:31:18 - 11:39:02	gap at MA
25/07/08	69345 - 69346	13:50:37 - 15:08:00	data gap due to instrument switch-off (see unavailability report ERS2- UNA2008/027)
25/07/08	69347	17:09:22 - 17:21:54	gap at MM
25/07/08	69348	18:48:30 - 19:01:07	gap at MM
25/07/08	69349	20:27:50 - 20:40:34	gap at MM
25/07/08	69349	19:27:53 - 19:39:19	gap at MA
25/07/08	69350	22:07:47 - 22:20:19	gap at MM
25/07/08	69350	21:05:56 - 21:19:16	gap at MA
25/07/08	69351	23:38:11 - 23:52:34	gap at HO
25/07/08	69351	23:48:39 - 00:00:17	gap at MM
25/07/08	69342	08:02:23 - 08:03:30	gap at KS
25/07/08	69343	09:42:00 - 09:43:10	gap at KS
25/07/08	69344	11:21:33 - 11:22:48	gap at KS
25/07/08	69345	13:00:45 - 13:01:55	gap at KS
25/07/08	69347	16:17:09 - 16:27:30	gap at KS
25/07/08	69348	17:55:00 - 17:56:29	gap at KS
25/07/08	69344	11:34:30 - 11:36:09	gap at MS
25/07/08	69345	13:15:33 - 13:16:46	gap at MS
25/07/08	69340	05:01:03 - 05:02:32	gap at SG
25/07/08	69339	04:14:49 - 04:17:13	gap at CM
25/07/08	69341	06:50:14 - 06:53:23	gap at JO
25/07/08	69350	22:28:28 - 22:30:04	gap at JO
25/07/08	69345	13:50:37 - 14:03:21	gap at MM
25/07/08	69345	14:16:00 - 14:25:59	gap at SG
25/07/08	69346	14:24:04 - 14:37:23	gap at BE
25/07/08	69346	15:30:07 - 15:42:45	gap at MM
25/07/08	69346	14:57:42 - 15:08:43	gap at MI
25/07/08	69346	14:39:28 - 14:51:02	gap at KS
25/07/08	69346	14:51:10 - 15:03:36	gap at GS
25/07/08	69346	15:53:22 - 16:06:46	gap at SG
25/07/08	69346	15:03:02 - 15:08:00	gap at CM
26/07/08	69351	23:48:39 - 00:00:17	gap at MM
26/07/08	69352	01:18:39 - 01:31:19	gap at HO
26/07/08	69352	01:30:35 - 01:40:29	gap at MM

26/07/08	69352	00:24:58 - 00:35:22	gap at MS
26/07/08	69352	00:35:33 - 00:42:46	gap at GS
26/07/08	69353	02:36:14 - 02:49:24	gap at BE
26/07/08	69353	03:13:27 - 03:21:01	gap at MM
26/07/08	69353	03:43:47 - 03:55:54	gap at CM
26/07/08	69354	04:16:09 - 04:27:29	gap at BE
26/07/08	69354	03:44:41 - 03:57:55	gap at MI
26/07/08	69354	03:50:17 - 04:03:09	gap at GS
26/07/08	69354	04:27:34 - 04:39:00	gap at SG
26/07/08	69355	06:38:17 - 06:44:53	gap at MM
26/07/08	69355	05:32:51 - 05:46:15	gap at PS
26/07/08	69355	05:52:41 - 05:56:43	gap at KS
26/07/08	69355	05:25:39 - 05:32:48	gap at CM
26/07/08	69356	08:19:03 - 08:27:57	gap at MM
26/07/08	69356	07:31:07 - 07:42:16	gap at KS
26/07/08	69356	07:55:55 - 08:10:46	gap at JO
26/07/08	69357	09:59:22 - 10:10:21	gap at MM
26/07/08	69357	09:19:00 - 09:32:20	gap at MA
26/07/08	69358	11:39:27 - 11:51:41	gap at MM
26/07/08	69358	10:58:49 - 11:09:17	gap at MA
26/07/08	69360	15:21:58 - 15:35:51	gap at SG
26/07/08	69361	15:34:18 - 15:44:23	gap at BE
26/07/08	69361	16:38:12 - 16:50:44	gap at MM
26/07/08	69361	16:07:41 - 16:19:53	gap at CM
26/07/08	69362	18:17:20 - 18:29:54	gap at MM
26/07/08	69362	17:49:02 - 17:56:15	gap at CM
26/07/08	69363	19:00:51 - 19:05:59	gap at MA
26/07/08	69364	20:34:25 - 20:48:06	gap at MA
26/07/08	69365	23:16:50 - 23:28:50	gap at MM
26/07/08	69365	22:17:25 - 22:26:22	gap at MA
26/07/08	69357	09:10:41 - 09:11:50	gap at KS
26/07/08	69358	10:50:17 - 10:51:30	gap at KS
26/07/08	69359	12:29:38 - 12:30:48	gap at KS
26/07/08	69360	14:08:31 - 14:09:46	gap at KS
26/07/08	69361	15:46:25 - 15:47:40	gap at KS
26/07/08	69362	17:24:18 - 17:25:33	gap at KS
26/07/08	69358	11:03:28 - 11:04:42	gap at MS
26/07/08	69359	12:43:10 - 12:44:27	gap at MS
26/07/08	69364	21:36:17 - 21:37:38	gap at MM
26/07/08	69353	02:47:47 - 02:49:03	gap at SG
26/07/08	69357	09:37:12 - 09:38:44	gap at JO
26/07/08	69364	21:56:01 - 21:57:34	gap at JO
27/07/08	69366	00:58:26 - 01:08:58	gap at MM
27/07/08	69366	00:09:39 - 00:14:06	gap at KS
27/07/08	69367	02:05:22 - 02:17:27	gap at BE
27/07/08	69367	02:41:03 - 02:49:22	gap at MM
27/07/08	69367	02:18:02 - 02:28:05	gap at SG
27/07/08	69368	03:55:28 - 04:08:51	gap at SG

27/07/08	69368	03:13:31 - 03:24:03	gap at CM
27/07/08	69368	04:52:28 - 05:03:21	gap at CM
27/07/08	69370	07:47:27 - 07:55:35	gap at MM
27/07/08	69370	07:25:23 - 07:39:11	gap at JO
27/07/08	69371	09:27:52 - 09:38:16	gap at MM
27/07/08	69371	08:47:50 - 09:00:12	gap at MA
27/07/08	69372	11:08:01 - 11:19:57	gap at MM
27/07/08	69372	10:27:01 - 10:39:07	gap at MA
27/07/08	69374	14:51:13 - 15:04:18	gap at SG
27/07/08	69375	15:01:41 - 15:13:56	gap at BE
27/07/08	69375	16:07:01 - 16:19:35	gap at MM
27/07/08	69375	16:31:25 - 16:42:19	gap at SG
27/07/08	69375	15:37:12 - 15:47:51	gap at CM
27/07/08	69376	17:46:11 - 17:58:43	gap at MM
27/07/08	69376	17:16:18 - 17:27:04	gap at CM
27/07/08	69378	20:03:38 - 20:17:06	gap at MA
27/07/08	69379	22:45:08 - 22:57:25	gap at MM
27/07/08	69379	21:43:49 - 21:56:01	gap at MA
27/07/08	69371	08:39:22 - 08:40:30	gap at KS
27/07/08	69372	10:19:00 - 10:20:10	gap at KS
27/07/08	69373	11:58:27 - 11:59:42	gap at KS
27/07/08	69374	13:37:27 - 13:38:38	gap at KS
27/07/08	69375	15:15:45 - 15:17:16	gap at KS
27/07/08	69376	16:53:24 - 16:54:43	gap at KS
27/07/08	69377	18:31:27 - 18:32:40	gap at KS
27/07/08	69367	01:40:05 - 01:41:23	gap at GS
27/07/08	69372	10:33:07 - 10:34:23	gap at MS
27/07/08	69372	10:33:07 - 10:34:23	gap at MS
27/07/08	69373	12:11:30 - 12:12:49	gap at MS
27/07/08	69376	17:14:42 - 17:24:13	gap at MI
27/07/08	69368	03:44:30 - 03:45:51	gap at BE
27/07/08	69371	09:04:35 - 09:06:05	gap at JO
27/07/08	69378	21:24:11 - 21:26:35	gap at JO
28/07/08	69380	00:26:23 - 00:37:28	gap at MM
28/07/08	69381	02:08:43 - 02:17:46	gap at MM
28/07/08	69382	02:44:32 - 02:51:09	gap at CM
28/07/08	69382	04:20:32 - 04:32:48	gap at CM
28/07/08	69383	04:54:04 - 05:02:21	gap at BE
28/07/08	69384	07:15:48 - 07:23:11	gap at MM
28/07/08	69385	08:56:21 - 09:06:06	gap at MM
28/07/08	69385	08:17:23 - 08:28:16	gap at MA
28/07/08	69386	10:36:34 - 10:48:06	gap at MM
28/07/08	69386	09:55:44 - 10:08:50	gap at MA
28/07/08	69387	11:37:06 - 11:44:17	gap at MA
28/07/08	69388	13:56:19 - 14:09:03	gap at MM
28/07/08	69389	14:29:48 - 14:43:02	gap at BE
28/07/08	69389	15:35:48 - 15:48:25	gap at MM
28/07/08	69389	15:03:10 - 15:14:39	gap at MI

28/07/08	69390	17:15:02 - 17:27:33	gap at MM
28/07/08	69391	19:15:40 - 19:25:29	gap at JO
28/07/08	69392	20:33:32 - 20:46:16	gap at MM
28/07/08	69392	19:33:20 - 19:45:07	gap at MA
28/07/08	69392	20:52:45 - 21:07:45	gap at JO
28/07/08	69393	22:07:17 - 22:18:02	gap at HO
28/07/08	69393	22:13:31 - 22:26:01	gap at MM
28/07/08	69393	21:11:40 - 21:24:56	gap at MA
28/07/08	69393	22:34:29 - 22:43:00	gap at JO
28/07/08	69394	23:43:52 - 23:58:16	gap at HO
28/07/08	69394	23:54:26 - 00:06:00	gap at MM
28/07/08	69385	08:08:04 - 08:09:13	gap at KS
28/07/08	69386	09:47:41 - 09:48:51	gap at KS
28/07/08	69387	11:27:14 - 11:28:29	gap at KS
28/07/08	69388	13:06:24 - 13:07:34	gap at KS
28/07/08	69389	14:45:06 - 14:46:20	gap at KS
28/07/08	69390	16:22:45 - 16:24:01	gap at KS
28/07/08	69391	18:00:34 - 18:02:05	gap at KS
28/07/08	69387	11:40:10 - 11:41:26	gap at MS
28/07/08	69388	13:21:33 - 13:22:46	gap at MS
28/07/08	69390	16:48:54 - 16:54:23	gap at MI
28/07/08	69382	03:13:04 - 03:14:19	gap at BE
28/07/08	69388	14:30:36 - 14:31:59	gap at SG
28/07/08	69389	15:59:08 - 16:00:34	gap at SG
28/07/08	69389	16:07:20 - 16:12:19	gap at SG
28/07/08	69384	06:55:33 - 06:57:08	gap at JO
28/07/08	69385	08:32:45 - 08:34:48	gap at JO
29/07/08	69394	23:54:26 - 00:06:00	gap at MM
29/07/08	69395	01:24:35 - 01:36:51	gap at HO
29/07/08	69395	01:36:27 - 01:46:13	gap at MM
29/07/08	69396	02:41:53 - 02:55:09	gap at BE
29/07/08	69396	02:53:18 - 03:06:25	gap at SG
29/07/08	69398	06:44:04 - 06:50:46	gap at MM
29/07/08	69398	05:58:10 - 06:02:58	gap at KS
29/07/08	69398	05:31:59 - 05:37:52	gap at CM
29/07/08	69399	08:24:48 - 08:33:49	gap at MM
29/07/08	69399	08:01:32 - 08:16:28	gap at JO
29/07/08	69400	10:05:06 - 10:16:10	gap at MM
29/07/08	69400	09:24:32 - 09:38:05	gap at MA
29/07/08	69401	11:54:36 - 12:07:41	gap at HO
29/07/08	69401	11:04:58 - 11:14:41	gap at MA
29/07/08	69402	13:33:31 - 13:48:11	gap at HO
29/07/08	69402	13:24:59 - 13:37:42	gap at MM
29/07/08	69403	13:58:29 - 14:11:52	gap at BE
29/07/08	69403	15:14:42 - 15:22:49	gap at HO
29/07/08	69403	15:04:34 - 15:17:14	gap at MM
29/07/08	69404	15:40:21 - 15:49:50	gap at BE
29/07/08	69404	16:43:52 - 16:56:24	gap at MM

29/07/08	69405	18:23:00 - 18:35:35	gap at MM
29/07/08	69406	20:02:15 - 20:14:58	gap at MM
29/07/08	69406	19:05:58 - 19:12:57	gap at MA
29/07/08	69407	21:42:00 - 21:54:38	gap at MM
29/07/08	69407	20:40:04 - 20:53:45	gap at MA
29/07/08	69408	23:22:37 - 23:34:33	gap at MM
29/07/08	69408	22:23:31 - 22:31:48	gap at MA
29/07/08	69400	09:16:22 - 09:17:31	gap at KS
29/07/08	69401	10:55:58 - 10:57:11	gap at KS
29/07/08	69402	12:35:18 - 12:36:28	gap at KS
29/07/08	69403	14:14:09 - 14:15:24	gap at KS
29/07/08	69404	15:52:00 - 15:53:13	gap at KS
29/07/08	69405	17:29:55 - 17:31:10	gap at KS
29/07/08	69401	11:09:05 - 11:10:36	gap at MS
29/07/08	69402	12:49:04 - 12:50:16	gap at MS
29/07/08	69397	03:50:25 - 03:52:10	gap at MI
29/07/08	69397	03:59:29 - 04:03:33	gap at MI
29/07/08	69404	16:11:14 - 16:23:46	gap at MI
29/07/08	69397	04:33:31 - 04:41:05	gap at SG
29/07/08	69403	15:27:38 - 15:28:51	gap at SG
29/07/08	69398	06:26:56 - 06:28:36	gap at JO
29/07/08	69400	09:43:15 - 09:45:25	gap at JO
29/07/08	69407	22:01:51 - 22:03:22	gap at JO
30/07/08	69409	01:04:16 - 01:14:42	gap at MM
30/07/08	69409	00:15:56 - 00:19:32	gap at KS
30/07/08	69410	02:10:57 - 02:23:19	gap at BE
30/07/08	69410	02:46:56 - 02:55:07	gap at MM
30/07/08	69411	03:50:14 - 04:02:46	gap at BE
30/07/08	69412	06:12:14 - 06:18:23	gap at MM
30/07/08	69413	07:53:12 - 08:01:29	gap at MM
30/07/08	69414	09:33:36 - 09:44:06	gap at MM
30/07/08	69414	08:54:11 - 09:06:36	gap at MA
30/07/08	69415	10:32:42 - 10:44:39	gap at MA
30/07/08	69416	12:53:38 - 13:06:17	gap at MM
30/07/08	69417	14:33:18 - 14:46:00	gap at MM
30/07/08	69418	15:07:33 - 15:19:31	gap at BE
30/07/08	69418	16:12:41 - 16:25:15	gap at MM
30/07/08	69419	17:51:51 - 18:04:24	gap at MM
30/07/08	69420	19:31:02 - 19:43:42	gap at MM
30/07/08	69421	21:10:35 - 21:23:17	gap at MM
30/07/08	69421	20:09:12 - 20:22:50	gap at MA
30/07/08	69422	22:50:53 - 23:03:08	gap at MM
30/07/08	69422	21:49:57 - 22:01:35	gap at MA
30/07/08	69414	08:45:04 - 08:46:13	gap at KS
30/07/08	69415	10:24:41 - 10:25:52	gap at KS
30/07/08	69416	12:04:08 - 12:05:18	gap at KS
30/07/08	69417	13:43:05 - 13:44:17	gap at KS
30/07/08	69418	15:21:17 - 15:22:50	gap at KS

30/07/08	69419	16:58:59 - 17:00:16	gap at KS
30/07/08	69420	18:37:05 - 18:38:13	gap at KS
30/07/08	69415	10:38:37 - 10:39:55	gap at MS
30/07/08	69416	12:17:16 - 12:18:33	gap at MS
30/07/08	69423	23:26:20 - 23:27:27	gap at MS
30/07/08	69411	03:19:06 - 03:20:12	gap at MI
30/07/08	69417	14:56:46 - 14:57:54	gap at SG
30/07/08	69418	16:37:24 - 16:38:56	gap at SG
30/07/08	69413	07:30:53 - 07:32:17	gap at JO
30/07/08	69414	09:10:26 - 09:11:53	gap at JO
30/07/08	69421	21:29:56 - 21:31:32	gap at JO
31/07/08	69423	00:32:12 - 00:43:12	gap at MM
31/07/08	69426	05:40:16 - 05:46:06	gap at MM
31/07/08	69427	07:21:33 - 07:29:05	gap at MM
31/07/08	69428	09:02:05 - 09:11:57	gap at MM
31/07/08	69428	08:22:51 - 08:34:14	gap at MA
31/07/08	69429	10:42:17 - 10:53:54	gap at MM
31/07/08	69429	10:01:25 - 10:14:28	gap at MA
31/07/08	69430	12:22:16 - 12:34:47	gap at MM
31/07/08	69430	11:42:55 - 11:49:28	gap at MA
31/07/08	69431	14:02:00 - 14:14:44	gap at MM
31/07/08	69432	14:35:34 - 14:48:41	gap at BE
31/07/08	69432	15:41:29 - 15:54:05	gap at MM
31/07/08	69433	17:20:42 - 17:33:13	gap at MM
31/07/08	69434	18:59:50 - 19:12:28	gap at MM
31/07/08	69435	20:39:14 - 20:51:58	gap at MM
31/07/08	69435	19:38:48 - 19:50:55	gap at MA
31/07/08	69435	20:58:26 - 21:13:23	gap at JO
31/07/08	69436	22:19:16 - 22:31:43	gap at MM
31/07/08	69436	21:17:25 - 21:30:39	gap at MA
31/07/08	69428	08:13:45 - 08:14:56	gap at KS
31/07/08	69429	09:53:23 - 09:54:35	gap at KS
31/07/08	69430	11:32:55 - 11:34:10	gap at KS
31/07/08	69431	13:12:03 - 13:13:12	gap at KS
31/07/08	69432	14:50:43 - 14:51:57	gap at KS
31/07/08	69433	16:28:22 - 16:29:36	gap at KS
31/07/08	69434	18:06:09 - 18:07:35	gap at KS
31/07/08	69429	10:08:38 - 10:09:50	gap at MS
31/07/08	69430	11:45:49 - 11:47:04	gap at MS
31/07/08	69431	13:27:40 - 13:28:43	gap at MS
31/07/08	69432	15:09:31 - 15:20:33	gap at MI
31/07/08	69425	03:18:46 - 03:20:00	gap at BE
31/07/08	69425	03:29:44 - 03:31:25	gap at SG
31/07/08	69431	14:26:40 - 14:27:44	gap at SG
31/07/08	69432	16:04:56 - 16:06:23	gap at SG
31/07/08	69427	07:00:55 - 07:02:42	gap at JO
31/07/08	69428	08:38:30 - 08:39:59	gap at JO
31/07/08	69436	22:40:35 - 22:42:13	gap at JO

Lamp Failures:

Date	Lamp Failure	remark
29/07/08	Lamp Failure (no. 241 – 246) Orbit 69395 – 69397	Lamp Failures occurred during quarterly calibration sequences, voltage at a value of ca. 180 V instead of nominally 198 V orbit 69395 start before 00:31:39 44 (no visibility gs) - stop 00:36:54 Start 00:49:24 – stop after 00:50:2744 (no visibility gs) orbit 69396 start before 02:13:48 (no visibility gs) - stop 02:17:26 Start 02:30:01 – stop after 02:31:14 (no visibility gs) start before 03:19:02 (no visibility gs) - stop 03:22:41 orbit 69397 start before 03:52:10 (no visibility gs) - stop 03:58:04

cooler switchings:

Date	Coolers off/on	Maximum detector warm up temperature [Kelvin]
25/07/08	13:34:27 off 17:56:29 on	FPA 1: 276.3 FPA 2: 277.2 FPA 3: 276.9 FPA 4: 277.2

Timeline interruptions: none

Narrow Swath Timeline:

Date	Orbit No.	Duration	Date
04-05/07/08	69047–69061	~18:30 (04/07/08) - ~17:00 (05/07/08)	Narrow Swath Timeline GMNNOT41 executed
14-15/07/08	69192– 69205	~20:00 (14/07/08) - ~17:30 (15/07/08)	Narrow Swath Timeline GMNNOT41 executed
24-25/07/08	69334–69349	~ 18:00 (24/07/08) - ~19:00 (25/07/08)	Narrow Swath Timeline GMNNOT41 executed

Commanding Problems - Incorrect Timelines Execution: none

Others:

Date	Orbit No.	Duration	remark
01/07/08 - 31/07/08			products with padded frames in channel 4 (Frame 20) (over a few orbits of a limited area over the North Pole)
05/07/08	69053	03:05:45	Corrupted products at MI anomalous values for most parameters
09/07/08	69110	02:44:56	Corrupted products at GS anomalous values for most parameters
09/07/08	69117	15:01:12	Corrupted products at MI anomalous values for most parameters
18/07/08	69240	04:38:10	Corrupted products at MI anomalous values for most parameters
24/07/08	69327	64:38:20	Corrupted products at GS anomalous values for most parameters
26/07/08	69360	19:07:33	Corrupted products at MI anomalous values for most parameters
28/07/08	693982	Start 19:47:21 stop 19:57:19	GOOD Lamp cal measurements, no instability
28/07/08	69393	Start at 21:27:54 stop after 21:34:47 (no visibility gs)	Calibration lamp instabilities: some values at ca 180 V (nominal would be 198 V)
28/07/08	69394	Start before 22:50:18 (no visibility gs) stop 22:56:16	Calibration lamp instabilities: some values at ca 180 V (nominal would be 198 V)
28/07/08	693984	Start at 23:08:32 stop after 23:14:23 (no visibility gs)	GOOD Lamp cal measurements, no instability