

GOMOS Daily Report 24-JUN-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	26JUN2009 04:31:32
Data source version	GOMOS/5.00
Start time of products	24JUN2009 00:10:42
Stop time of products	24JUN2009 05:57:55
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

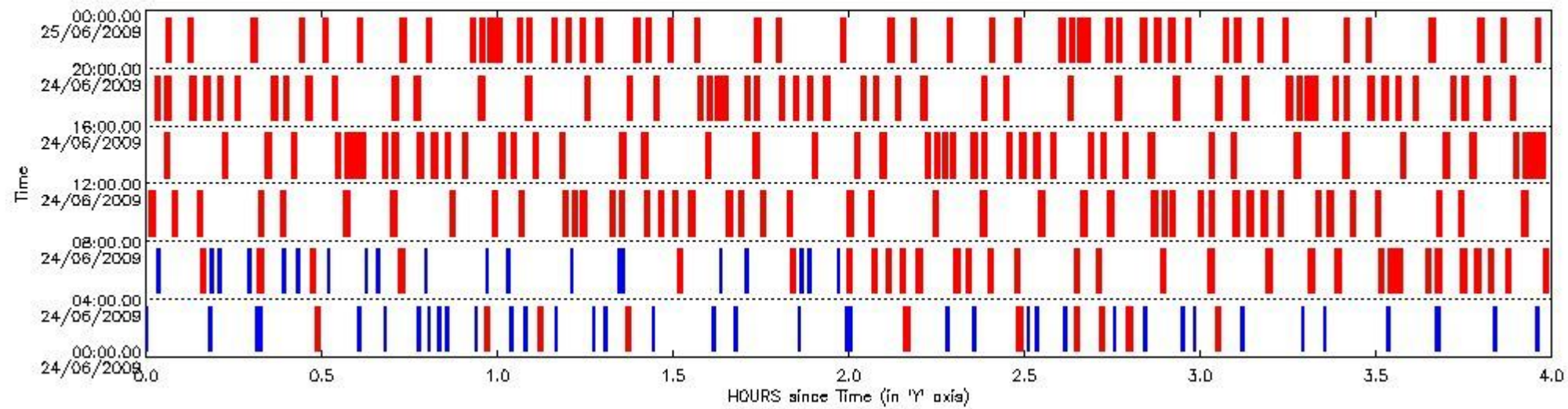
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
24-JUN-2009 00:28:46	AlpEri	9	38246
24-JUN-2009 00:57:48	13ZetOph	98	38247
24-JUN-2009 01:06:51	27BetHer	127	38247
24-JUN-2009 01:21:55	7BetUMi	60	38247
24-JUN-2009 02:09:23	AlpEri	9	38247
24-JUN-2009 02:28:40	TheSco	40	38248
24-JUN-2009 02:38:24	13ZetOph	98	38248
24-JUN-2009 02:42:40	60BetOph	126	38248
24-JUN-2009 02:47:27	27BetHer	127	38248
24-JUN-2009 03:02:31	7BetUMi	60	38248
24-JUN-2009 04:09:17	TheSco	40	38249
24-JUN-2009 04:19:00	13ZetOph	98	38249
24-JUN-2009 04:28:03	27BetHer	127	38249
24-JUN-2009 04:43:07	7BetUMi	60	38249
24-JUN-2009 05:30:35	AlpEri	9	38249

24-JUN-2009 05:49:53	TheSco	40	38250
24-JUN-2009 05:59:37	13ZetOph	98	38250
24-JUN-2009 06:03:51	60BetOph	126	38250
24-JUN-2009 06:06:15	55AlpOph	59	38250
24-JUN-2009 06:08:38	27BetHer	127	38250
24-JUN-2009 06:11:30	40ZetHer	133	38250
24-JUN-2009 06:17:53	23BetDra	130	38250
24-JUN-2009 06:19:56	14EtaDra	119	38250
24-JUN-2009 06:23:43	7BetUMi	60	38250
24-JUN-2009 06:28:10	1AlpUMi	49	38250
24-JUN-2009 06:38:29	23GamPer	160	38250
24-JUN-2009 06:42:12	26BetPer	79	38250
24-JUN-2009 06:53:05	92AlpCet	94	38250
24-JUN-2009 07:01:11	DSA1066	0	38250
24-JUN-2009 07:11:12	AlpEri	9	38250
24-JUN-2009 07:18:25	AlpTuc	148	38251
24-JUN-2009 07:22:56	AlpPav	45	38251
24-JUN-2009 07:30:29	TheSco	40	38251
24-JUN-2009 07:32:10	35LamSco	25	38251
24-JUN-2009 07:33:31	19DelSgr	116	38251
24-JUN-2009 07:38:29	35EtaOph	86	38251
24-JUN-2009 07:40:13	13ZetOph	98	38251
24-JUN-2009 07:44:27	60BetOph	126	38251
24-JUN-2009 07:46:51	55AlpOph	59	38251
24-JUN-2009 07:49:14	27BetHer	127	38251
24-JUN-2009 07:52:06	40ZetHer	133	38251
24-JUN-2009 07:58:28	23BetDra	130	38251
24-JUN-2009 08:00:32	14EtaDra	119	38251
24-JUN-2009 08:04:19	7BetUMi	60	38251
24-JUN-2009 08:08:46	1AlpUMi	49	38251
24-JUN-2009 08:19:05	23GamPer	160	38251
24-JUN-2009 08:22:48	26BetPer	79	38251
24-JUN-2009 08:33:41	92AlpCet	94	38251
24-JUN-2009 08:41:48	DSA1066	0	38251
24-JUN-2009 08:51:48	AlpEri	9	38251
24-JUN-2009 08:59:02	AlpTuc	148	38252
24-JUN-2009 09:03:32	AlpPav	45	38252
24-JUN-2009 09:11:05	TheSco	40	38252
24-JUN-2009 09:12:46	35LamSco	25	38252
24-JUN-2009 09:14:08	19DelSgr	116	38252
24-JUN-2009 09:19:05	35EtaOph	86	38252
24-JUN-2009 09:20:49	13ZetOph	98	38252
24-JUN-2009 09:25:03	60BetOph	126	38252
24-JUN-2009 09:27:26	55AlpOph	59	38252
24-JUN-2009 09:29:50	27BetHer	127	38252
24-JUN-2009 09:32:42	40ZetHer	133	38252
24-JUN-2009 09:39:04	23BetDra	130	38252
24-JUN-2009 09:41:08	14EtaDra	119	38252
24-JUN-2009 09:44:55	7BetUMi	60	38252
24-JUN-2009 09:49:21	1AlpUMi	49	38252
24-JUN-2009 09:59:41	23GamPer	160	38252
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24-JUN-2009 10:39:38	AlpTuc	148	38253
24-JUN-2009 10:44:09	AlpPav	45	38253
24-JUN-2009 10:51:41	TheSco	40	38253
24-JUN-2009 10:53:22	35LamSco	25	38253

24-JUN-2009 10:54:44	19DelSgr	116	38253
24-JUN-2009 10:59:41	35EtaOph	86	38253
24-JUN-2009 11:01:25	13ZetOph	98	38253
24-JUN-2009 11:05:39	60BetOph	126	38253
24-JUN-2009 11:08:02	55AlpOph	59	38253
24-JUN-2009 11:10:26	27BetHer	127	38253
24-JUN-2009 11:13:18	40ZetHer	133	38253
24-JUN-2009 11:19:40	23BetDra	130	38253
24-JUN-2009 11:21:43	14EtaDra	119	38253
24-JUN-2009 11:25:31	7BetUMi	60	38253
24-JUN-2009 11:29:57	1AlpUMi	49	38253
24-JUN-2009 11:40:17	23GamPer	160	38253
24-JUN-2009 11:44:00	26BetPer	79	38253
24-JUN-2009 11:54:54	92AlpCet	94	38253
24-JUN-2009 12:03:01	DSA1066	0	38253
24-JUN-2009 12:13:01	AlpEri	9	38253
24-JUN-2009 12:20:15	AlpTuc	148	38254
24-JUN-2009 12:24:45	AlpPav	45	38254
24-JUN-2009 12:32:18	TheSco	40	38254
24-JUN-2009 12:33:58	35LamSco	25	38254
24-JUN-2009 12:35:20	19DelSgr	116	38254
24-JUN-2009 12:36:35	22LamSgr	137	38254
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24-JUN-2009 12:46:15	60BetOph	126	38254
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24-JUN-2009 13:02:19	14EtaDra	119	38254
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24-JUN-2009 13:10:33	1AlpUMi	49	38254
24-JUN-2009 13:20:53	23GamPer	160	38254
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24-JUN-2009 13:43:38	DSA1066	0	38254
24-JUN-2009 13:53:37	AlpEri	9	38254
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24-JUN-2009 14:05:22	AlpPav	45	38255
24-JUN-2009 14:12:54	TheSco	40	38255
24-JUN-2009 14:14:34	35LamSco	25	38255
24-JUN-2009 14:15:56	19DelSgr	116	38255
24-JUN-2009 14:17:11	22LamSgr	137	38255
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24-JUN-2009 14:22:37	13ZetOph	98	38255
24-JUN-2009 14:26:50	60BetOph	126	38255
24-JUN-2009 14:29:14	55AlpOph	59	38255
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24-JUN-2009 14:34:30	40ZetHer	133	38255
24-JUN-2009 14:40:51	23BetDra	130	38255
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24-JUN-2009 15:05:12	26BetPer	79	38255
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24-JUN-2009 15:24:14	DSA1066	0	38255
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24-JUN-2009 17:22:04	AlpTuc	148	38257
24-JUN-2009 17:26:35	AlpPav	45	38257
24-JUN-2009 17:34:06	TheSco	40	38257
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24-JUN-2009 17:50:25	55AlpOph	59	38257
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24-JUN-2009 17:55:41	40ZetHer	133	38257
24-JUN-2009 18:02:02	23BetDra	130	38257
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24-JUN-2009 18:26:24	26BetPer	79	38257
24-JUN-2009 18:37:19	92AlpCet	94	38257
24-JUN-2009 18:45:27	DSA1066	0	38257
24-JUN-2009 18:55:26	AlpEri	9	38257
24-JUN-2009 19:02:41	AlpTuc	148	38258
24-JUN-2009 19:07:11	AlpPav	45	38258
24-JUN-2009 19:14:42	TheSco	40	38258
24-JUN-2009 19:16:23	35LamSco	25	38258
24-JUN-2009 19:17:45	19DelSgr	116	38258
24-JUN-2009 19:19:00	22LamSgr	137	38258
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24-JUN-2009 19:24:25	13ZetOph	98	38258
24-JUN-2009 19:28:38	60BetOph	126	38258
24-JUN-2009 19:31:01	55AlpOph	59	38258
24-JUN-2009 19:33:26	27BetHer	127	38258
24-JUN-2009 19:36:17	40ZetHer	133	38258
24-JUN-2009 19:42:38	23BetDra	130	38258
24-JUN-2009 19:44:43	14EtaDra	119	38258
24-JUN-2009 19:48:32	7BetUMi	60	38258
24-JUN-2009 19:52:57	1AlpUMi	49	38258
24-JUN-2009 20:03:16	23GamPer	160	38258
24-JUN-2009 20:07:00	26BetPer	79	38258

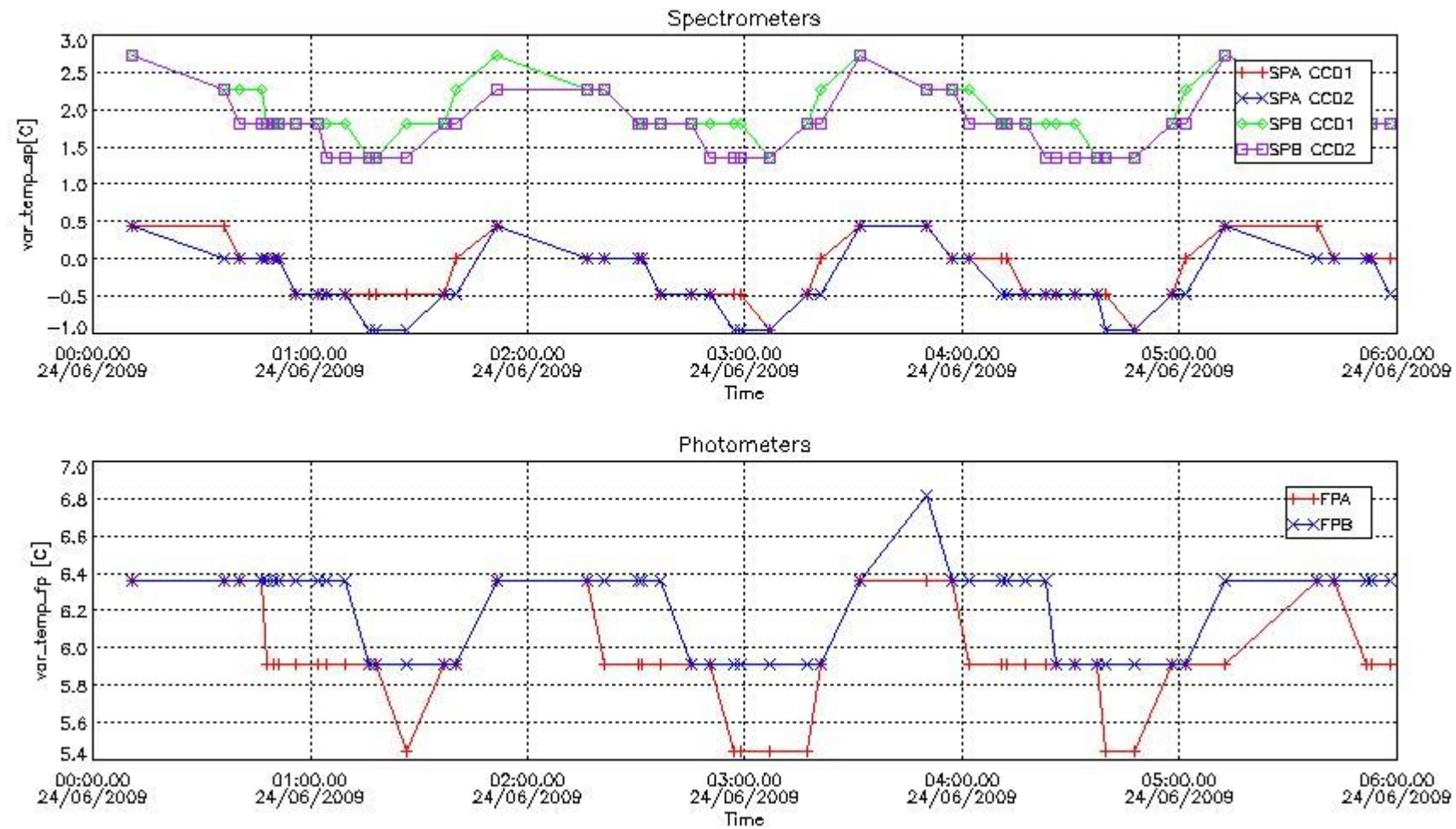
24-JUN-2009 20:17:55	92AlpCet	94	38258
24-JUN-2009 20:26:04	DSA1066	0	38258
24-JUN-2009 20:30:03	The1Eri	157	38258
24-JUN-2009 20:36:03	AlpEri	9	38258
24-JUN-2009 20:43:17	AlpTuc	148	38259
24-JUN-2009 20:47:48	AlpPav	45	38259
24-JUN-2009 20:55:18	TheSco	40	38259
24-JUN-2009 20:56:59	35LamSco	25	38259
24-JUN-2009 20:58:21	19DelSgr	116	38259
24-JUN-2009 20:59:36	22LamSgr	137	38259
24-JUN-2009 21:03:17	35EtaOph	86	38259
24-JUN-2009 21:05:01	13ZetOph	98	38259
24-JUN-2009 21:09:14	60BetOph	126	38259
24-JUN-2009 21:11:37	55AlpOph	59	38259
24-JUN-2009 21:14:02	27BetHer	127	38259
24-JUN-2009 21:16:53	40ZetHer	133	38259
24-JUN-2009 21:23:14	23BetDra	130	38259
24-JUN-2009 21:25:19	14EtaDra	119	38259
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24-JUN-2009 21:33:33	1AlpUMi	49	38259
24-JUN-2009 21:43:52	23GamPer	160	38259
24-JUN-2009 21:47:36	26BetPer	79	38259
24-JUN-2009 21:58:31	92AlpCet	94	38259
24-JUN-2009 22:06:41	DSA1066	0	38259
24-JUN-2009 22:10:39	The1Eri	157	38259
24-JUN-2009 22:16:39	AlpEri	9	38259
24-JUN-2009 22:23:54	AlpTuc	148	38260
24-JUN-2009 22:28:24	AlpPav	45	38260
24-JUN-2009 22:35:55	TheSco	40	38260
24-JUN-2009 22:37:35	35LamSco	25	38260
24-JUN-2009 22:38:57	19DelSgr	116	38260
24-JUN-2009 22:40:12	22LamSgr	137	38260
24-JUN-2009 22:43:53	35EtaOph	86	38260
24-JUN-2009 22:45:37	13ZetOph	98	38260
24-JUN-2009 22:49:50	60BetOph	126	38260
24-JUN-2009 22:52:13	55AlpOph	59	38260
24-JUN-2009 22:54:38	27BetHer	127	38260
24-JUN-2009 22:57:29	40ZetHer	133	38260
24-JUN-2009 23:03:49	23BetDra	130	38260
24-JUN-2009 23:05:55	14EtaDra	119	38260
24-JUN-2009 23:09:44	7BetUMi	60	38260
24-JUN-2009 23:14:09	1AlpUMi	49	38260
24-JUN-2009 23:24:28	23GamPer	160	38260
24-JUN-2009 23:28:12	26BetPer	79	38260
24-JUN-2009 23:39:08	92AlpCet	94	38260
24-JUN-2009 23:47:17	DSA1066	0	38260
24-JUN-2009 23:51:15	The1Eri	157	38260
24-JUN-2009 23:57:15	AlpEri	9	38260

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090624_001042_000000222080_00116_38246_0098.N1	24-JUN-2009 00:10:42	Dark	22.000	94	92Alp Cet	2.5260	3100.0	44	38246	No
2	GOM_TRA_1PNPDE20090624_003600_000000292080_00117_38247_0209.N1	24-JUN-2009 00:36:00	Straylight	29.000	148	Alp Tuc	2.8780	4100.0	58	38247	No
3	GOM_TRA_1PNPDE20090624_004031_000000282080_00117_38247_0210.N1	24-JUN-2009 00:40:31	Straylight	28.000	45	Alp Pav	1.9400	26000.	56	38247	No
4	GOM_TRA_1PNPDE20090624_004621_000000232080_00117_38247_0211.N1	24-JUN-2009 00:46:21	Straylight	22.500	147	Alp Ara	2.8770	26000.	45	38247	No
5	GOM_TRA_1PNPDE20090624_004806_000000252080_00117_38247_0212.N1	24-JUN-2009 00:48:06	Twilight_stray	25.000	40	The Sco	1.8590	7100.0	50	38247	No
6	GOM_TRA_1PNPDE20090624_004947_000000252080_00117_38247_0213.N1	24-JUN-2009 00:49:47	Twilight_stray	25.000	25	35Lam Sco	1.6200	28000.	50	38247	No

7	GOM_TRA_1PNPDE20090624_005108_000000282080_00117_38247_0214.N1	24-JUN-2009 00:51:08	Twilight	27.500	116	19Del Sgr	2.7000	4100.0	55	38247	No
8	GOM_TRA_1PNPDE20090624_005606_000000252080_00117_38247_0215.N1	24-JUN-2009 00:56:06	Twilight	25.000	86	35Eta Oph	2.4300	10200.	50	38247	No
9	GOM_TRA_1PNPDE20090624_010205_000000282080_00117_38247_0216.N1	24-JUN-2009 01:02:05	Twilight	28.000	126	60Bet Oph	2.7700	4250.0	56	38247	No
10	GOM_TRA_1PNPDE20090624_010429_000000282080_00117_38247_0217.N1	24-JUN-2009 01:04:29	Bright	28.000	59	55Alp Oph	2.0800	8900.0	56	38247	No
11	GOM_TRA_1PNPDE20090624_010944_000000272080_00117_38247_0218.N1	24-JUN-2009 01:09:44	Bright	26.500	133	40Zet Her	2.8070	6000.0	53	38247	No
12	GOM_TRA_1PNPDE20090624_011607_000000282080_00117_38247_0219.N1	24-JUN-2009 01:16:07	Bright	27.500	130	23Bet Dra	2.7990	5800.0	55	38247	No
13	GOM_TRA_1PNPDE20090624_011810_000000262080_00117_38247_0220.N1	24-JUN-2009 01:18:10	Bright	25.500	119	14Eta Dra	2.7270	4700.0	51	38247	No
14	GOM_TRA_1PNPDE20090624_012623_000000242080_00117_38247_0221.N1	24-JUN-2009 01:26:23	Twilight	23.500	49	1Alp UMi	1.9900	6300.0	47	38247	No
15	GOM_TRA_1PNPDE20090624_013643_000000212080_00117_38247_0222.N1	24-JUN-2009 01:36:43	Twilight	21.000	160	23Gam Per	2.9300	4700.0	42	38247	No
16	GOM_TRA_1PNPDE20090624_014026_000000212080_00117_38247_0223.N1	24-JUN-2009 01:40:26	Twilight	21.000	79	26Bet Per	2.3100	13100.	42	38247	No
17	GOM_TRA_1PNPDE20090624_015118_000000222080_00117_38247_0224.N1	24-JUN-2009 01:51:18	Dark	21.500	94	92Alp Cet	2.5260	3100.0	43	38247	No
18	GOM_TRA_1PNPDE20090624_021637_000000292080_00118_38248_0354.N1	24-JUN-2009 02:16:37	Straylight	28.500	148	Alp Tuc	2.8780	4100.0	57	38248	No
19	GOM_TRA_1PNPDE20090624_022108_000000292080_00118_38248_0355.N1	24-JUN-2009 02:21:08	Straylight	28.500	45	Alp Pav	1.9400	26000.	57	38248	No
20	GOM_TRA_1PNPDE20090624_023023_000000252080_00118_38248_0356.N1	24-JUN-2009 02:30:23	Twilight	25.000	25	35Lam Sco	1.6200	28000.	50	38248	No
21	GOM_TRA_1PNPDE20090624_023144_000000282080_00118_38248_0357.N1	24-JUN-2009 02:31:44	Twilight	27.500	116	19Del Sgr	2.7000	4100.0	55	38248	No
22	GOM_TRA_1PNPDE20090624_023642_000000252080_00118_38248_0358.N1	24-JUN-2009 02:36:42	Twilight	25.000	86	35Eta Oph	2.4300	10200.	50	38248	No
23	GOM_TRA_1PNPDE20090624_024505_000000282080_00118_38248_0359.N1	24-JUN-2009 02:45:05	Bright	28.000	59	55Alp Oph	2.0800	8900.0	56	38248	No
24	GOM_TRA_1PNPDE20090624_025020_000000262080_00118_38248_0360.N1	24-JUN-2009 02:50:20	Bright	26.000	133	40Zet Her	2.8070	6000.0	52	38248	No
25	GOM_TRA_1PNPDE20090624_025643_000000282080_00118_38248_0361.N1	24-JUN-2009 02:56:43	Bright	27.500	130	23Bet Dra	2.7990	5800.0	55	38248	No
26	GOM_TRA_1PNPDE20090624_025845_000000262080_00118_38248_0362.N1	24-JUN-2009 02:58:45	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	38248	No
27	GOM_TRA_1PNPDE20090624_030659_000000232080_00118_38248_0363.N1	24-JUN-2009 03:06:59	Twilight	23.000	49	1Alp UMi	1.9900	6300.0	46	38248	No
28	GOM_TRA_1PNPDE20090624_031719_000000212080_00118_38248_0507.N1	24-JUN-2009 03:17:19	Twilight	21.000	160	23Gam Per	2.9300	4700.0	42	38248	No
29	GOM_TRA_1PNPDE20090624_032102_000000212080_00118_38248_0508.N1	24-JUN-2009 03:21:02	Twilight	21.000	79	26Bet Per	2.3100	13100.	42	38248	No
30	GOM_TRA_1PNPDE20090624_033154_000000222080_00118_38248_0509.N1	24-JUN-2009 03:31:54	Dark	22.000	94	92Alp Cet	2.5260	3100.0	44	38248	No
31	GOM_TRA_1PNPDE20090624_035000_000000272080_00118_38248_0510.N1	24-JUN-2009 03:50:00	Dark	26.500	9	Alp Eri	0.45300	24000.	53	38248	No
32	GOM_TRA_1PNPDE20090624_035714_000000292080_00119_38249_0511.N1	24-JUN-2009 03:57:14	Straylight	28.500	148	Alp Tuc	2.8780	4100.0	57	38249	No
33	GOM_TRA_1PNPDE20090624_040144_000000292080_00119_38249_0512.N1	24-JUN-2009 04:01:44	Straylight	28.500	45	Alp Pav	1.9400	26000.	57	38249	No
34	GOM_TRA_1PNPDE20090624_041059_000000252080_00119_38249_0513.N1	24-JUN-2009 04:10:59	Twilight	25.000	25	35Lam Sco	1.6200	28000.	50	38249	No
35	GOM_TRA_1PNPDE20090624_041220_000000282080_00119_38249_0514.N1	24-JUN-2009 04:12:20	Twilight	27.500	116	19Del Sgr	2.7000	4100.0	55	38249	No
36	GOM_TRA_1PNPDE20090624_041718_000000252080_00119_38249_0515.N1	24-JUN-2009 04:17:18	Twilight	25.000	86	35Eta Oph	2.4300	10200.	50	38249	No
37	GOM_TRA_1PNPDE20090624_042317_000000282080_00119_38249_0516.N1	24-JUN-2009 04:23:17	Twilight	28.000	126	60Bet Oph	2.7700	4250.0	56	38249	No
38	GOM_TRA_1PNPDE20090624_042541_000000282080_00119_38249_0517.N1	24-JUN-2009 04:25:41	Bright	28.000	59	55Alp Oph	2.0800	8900.0	56	38249	No
39	GOM_TRA_1PNPDE20090624_043056_000000262080_00119_38249_0518.N1	24-JUN-2009 04:30:56	Bright	26.000	133	40Zet Her	2.8070	6000.0	52	38249	No
40	GOM_TRA_1PNPDE20090624_043719_000000282080_00119_38249_0519.N1	24-JUN-2009 04:37:19	Bright	27.500	130	23Bet Dra	2.7990	5800.0	55	38249	No
41	GOM_TRA_1PNPDE20090624_043921_000000262080_00119_38249_0520.N1	24-JUN-2009 04:39:21	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	38249	No
42	GOM_TRA_1PNPDE20090624_044736_000000232080_00119_38249_0521.N1	24-JUN-2009 04:47:36	Twilight	22.500	49	1Alp UMi	1.9900	6300.0	45	38249	No
43	GOM_TRA_1PNPDE20090624_045754_000000212080_00119_38249_0703.N1	24-JUN-2009 04:57:54	Twilight	21.000	160	23Gam Per	2.9300	4700.0	42	38249	No
44	GOM_TRA_1PNPDE20090624_050138_000000212080_00119_38249_0704.N1	24-JUN-2009 05:01:38	Twilight	21.000	79	26Bet Per	2.3100	13100.	42	38249	No
45	GOM_TRA_1PNPDE20090624_051231_000000222080_00119_38249_0705.N1	24-JUN-2009 05:12:31	Dark	22.000	94	92Alp Cet	2.5260	3100.0	44	38249	No
46	GOM_TRA_1PNPDE20090624_053750_000000292080_00120_38250_0706.N1	24-JUN-2009 05:37:50	Straylight	29.000	148	Alp Tuc	2.8780	4100.0	58	38250	No
47	GOM_TRA_1PNPDE20090624_054221_000000292080_00120_38250_0707.N1	24-JUN-2009 05:42:21	Straylight	28.500	45	Alp Pav	1.9400	26000.	57	38250	No
48	GOM_TRA_1PNPDE20090624_055136_000000252080_00120_38250_0708.N1	24-JUN-2009 05:51:36	Twilight	24.500	25	35Lam Sco	1.6200	28000.	49	38250	No
49	GOM_TRA_1PNPDE20090624_055257_000000282080_00120_38250_0709.N1	24-JUN-2009 05:52:57	Twilight	27.500	116	19Del Sgr	2.7000	4100.0	55	38250	No
50	GOM_TRA_1PNPDE20090624_055755_000000242080_00120_38250_0710.N1	24-JUN-2009 05:57:55	Twilight	24.000	86	35Eta Oph	2.4300	10200.	48	38250	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



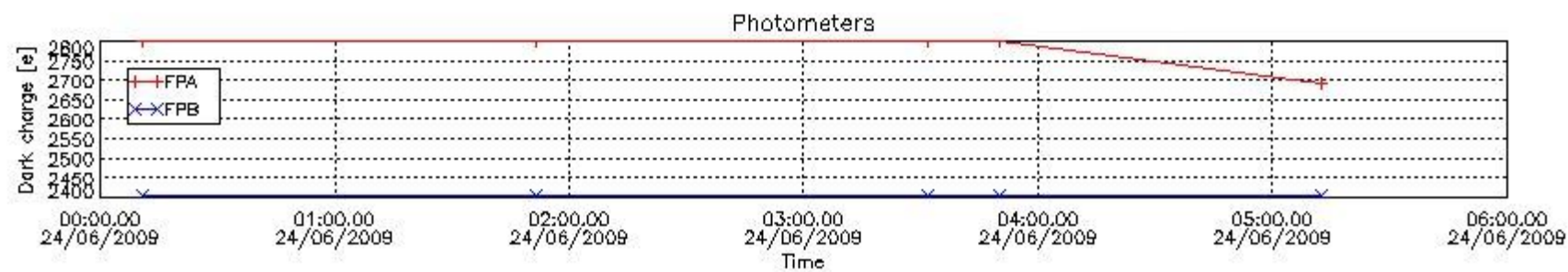
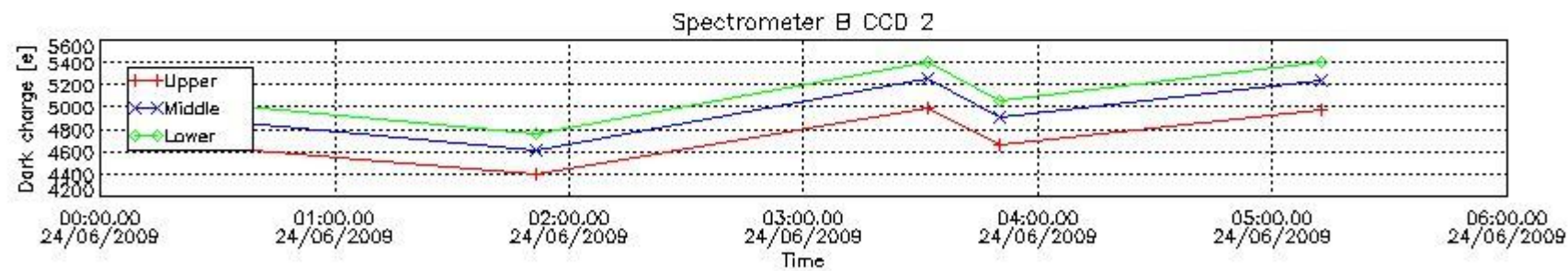
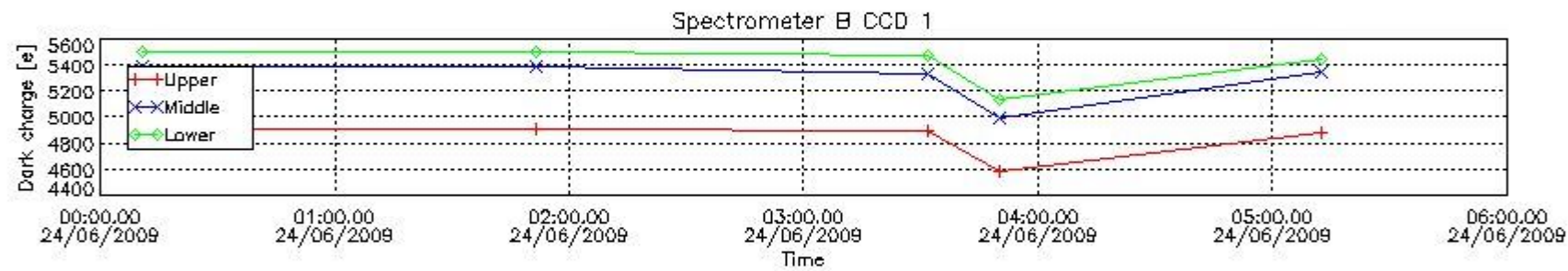
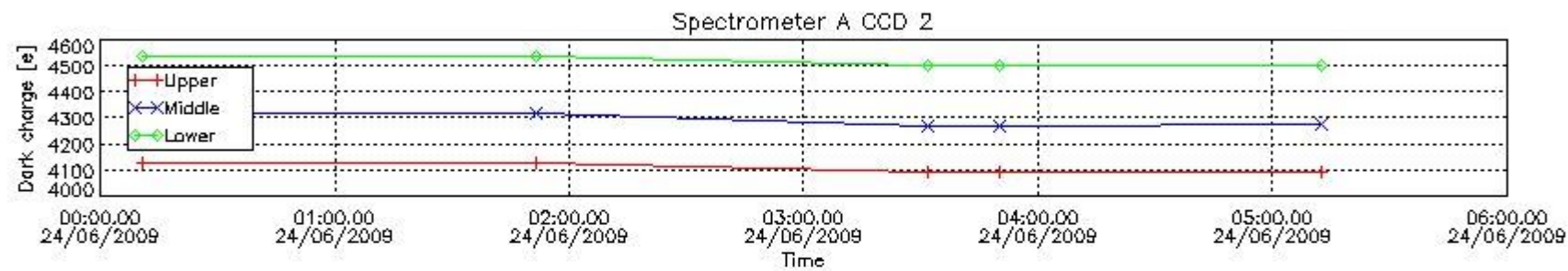
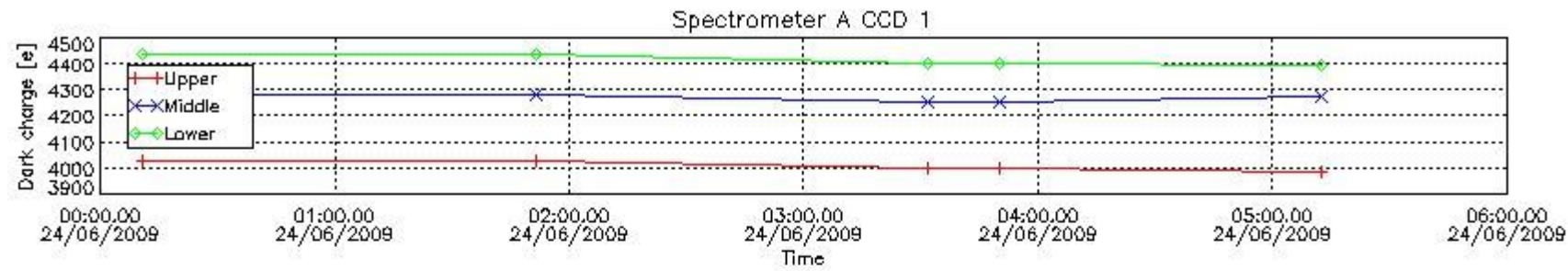
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



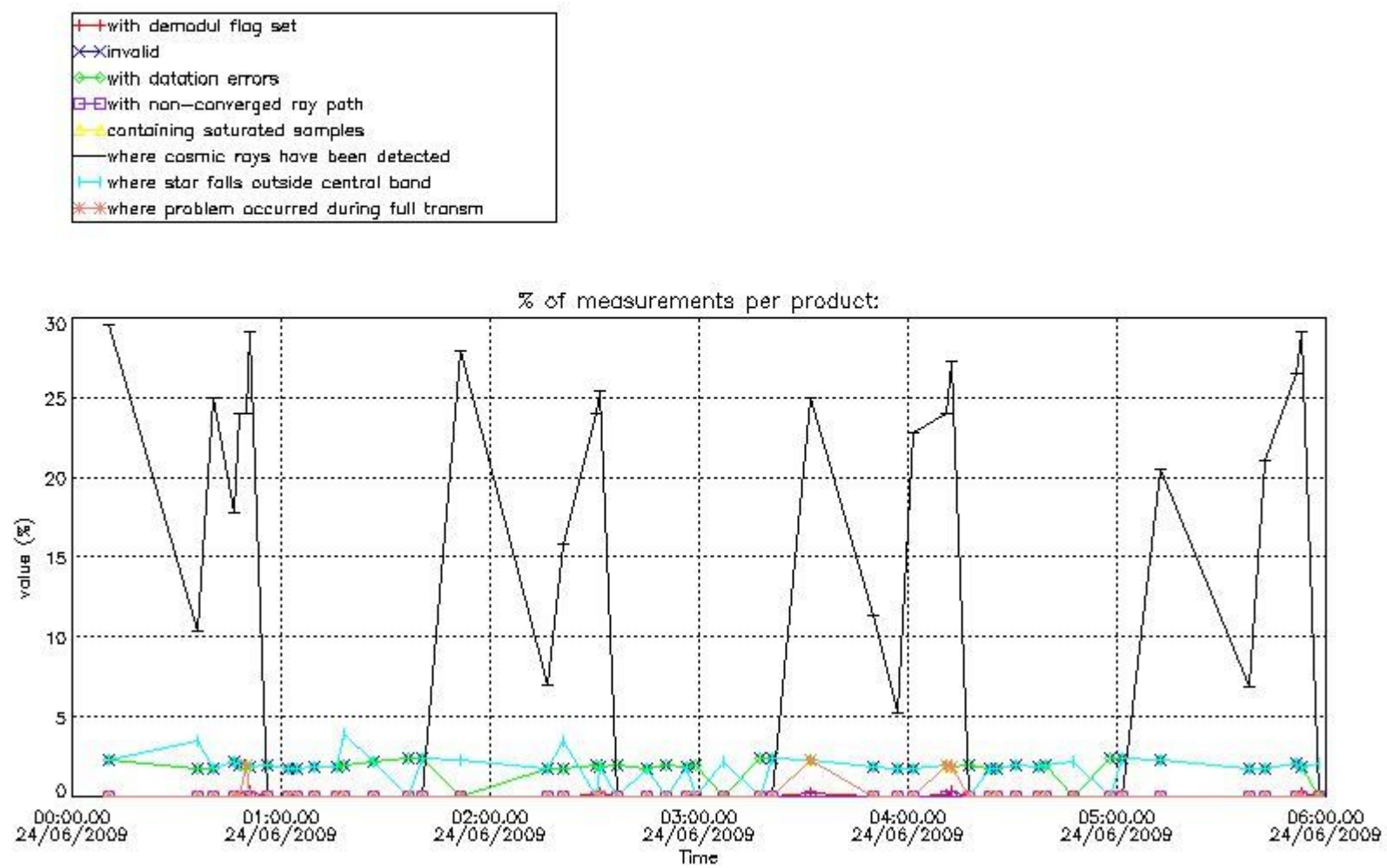
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

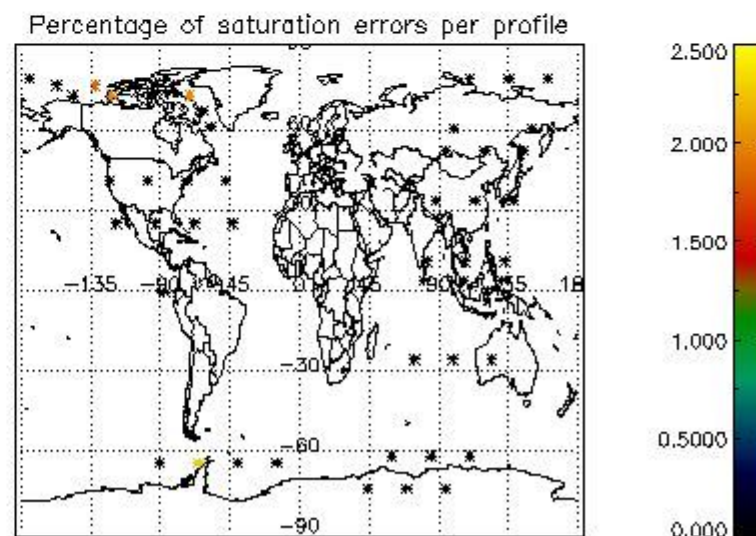
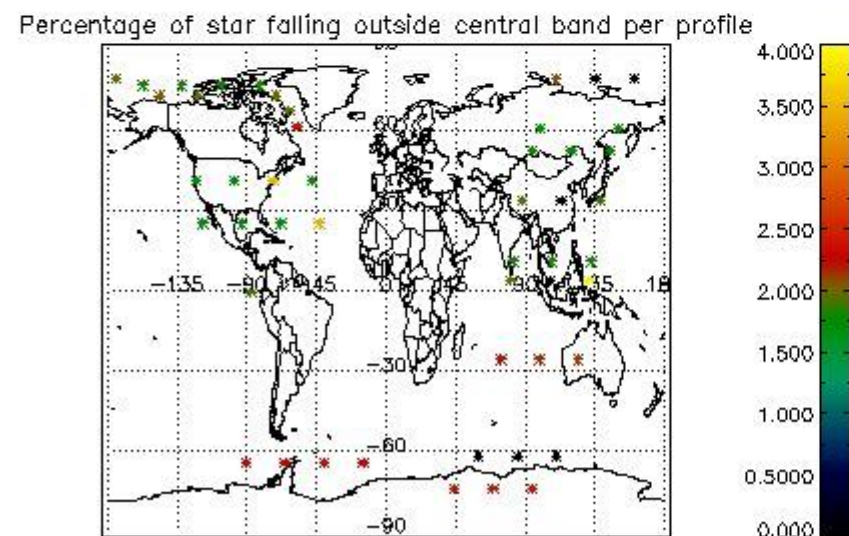
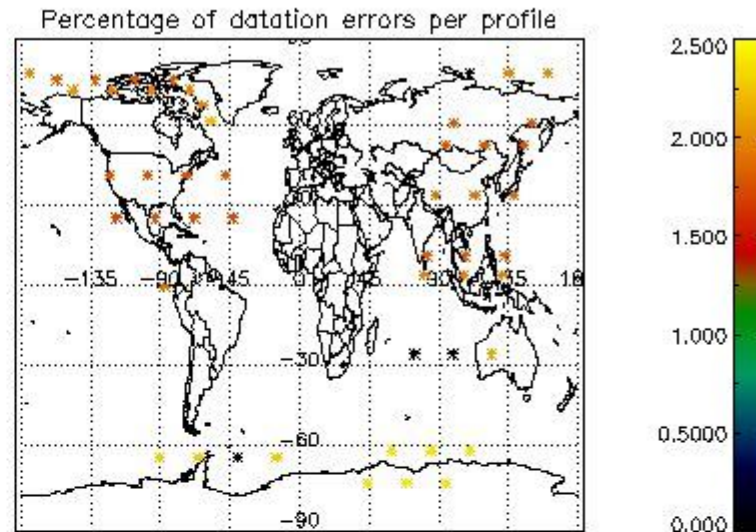
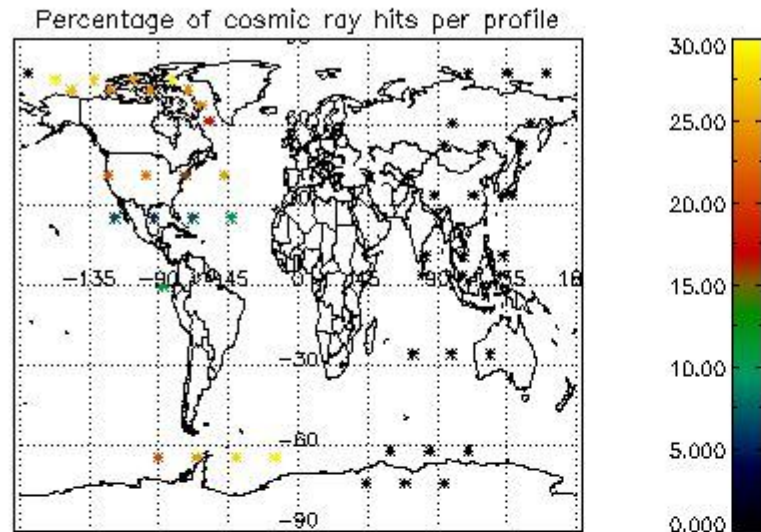
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



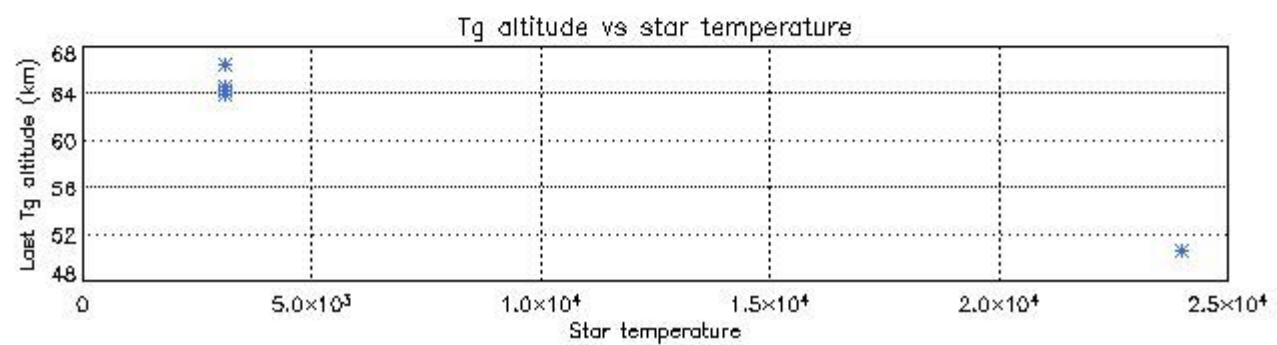
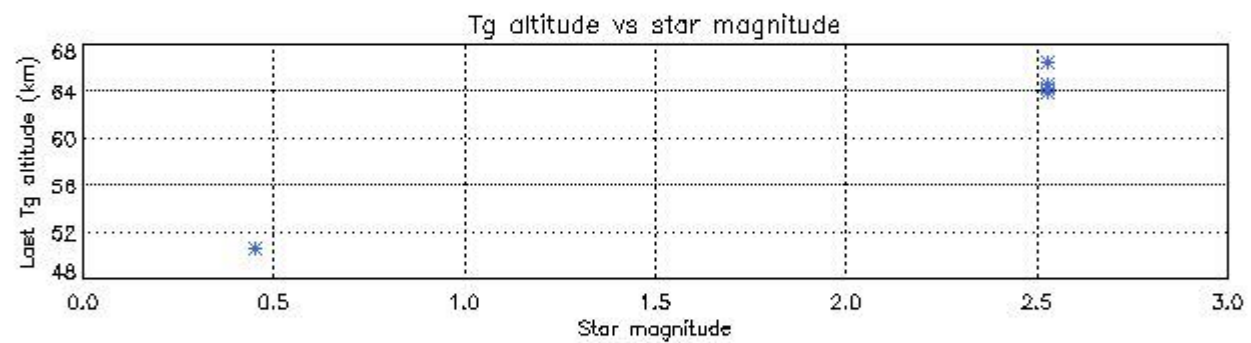
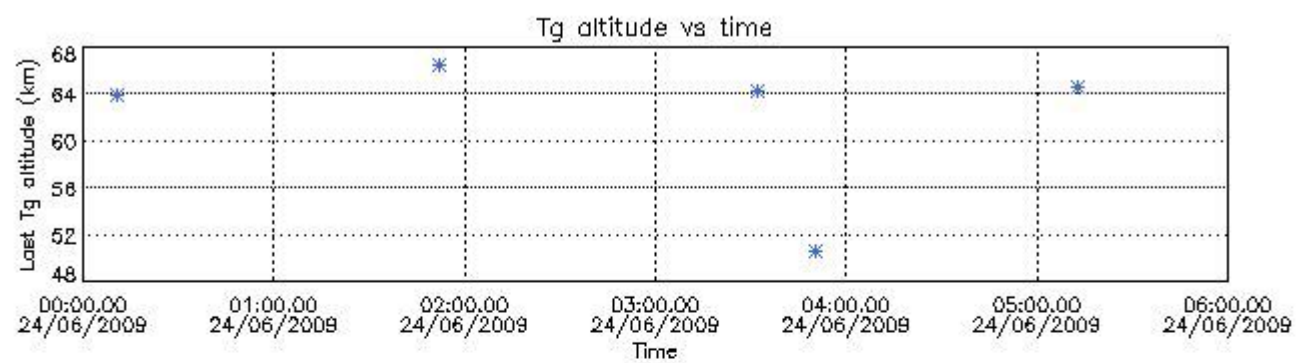
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	61.961	49.704	NaN
St. deviation:	6.4503	0.63444	NaN
Maximum:	66.446	50.245	NaN
Minimum:	50.554	48.431	NaN
Number of data:	5.0000	10.000	NaN

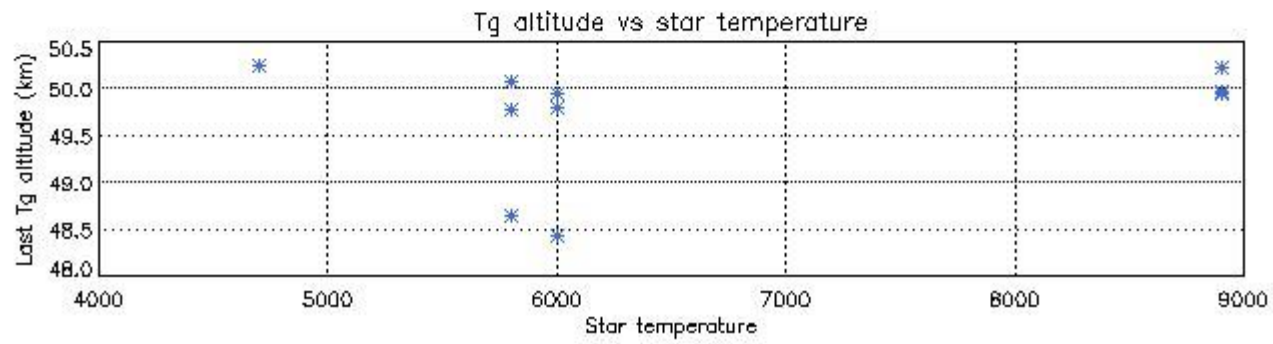
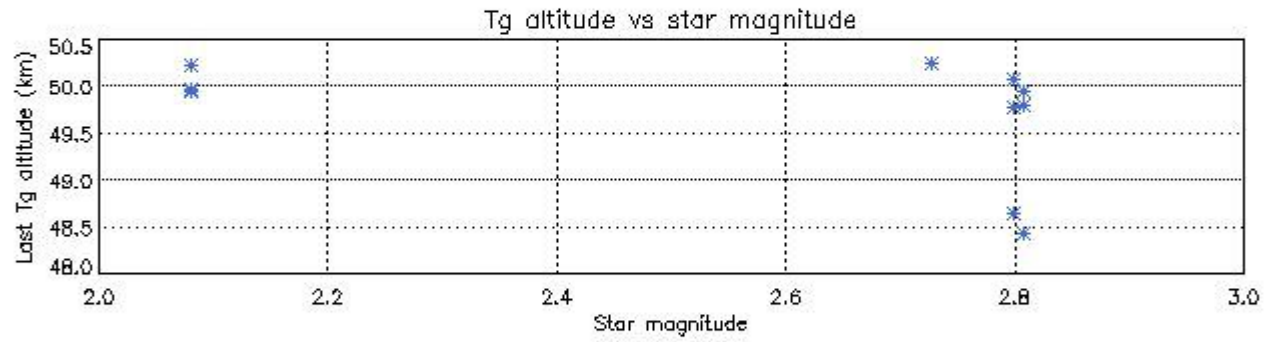
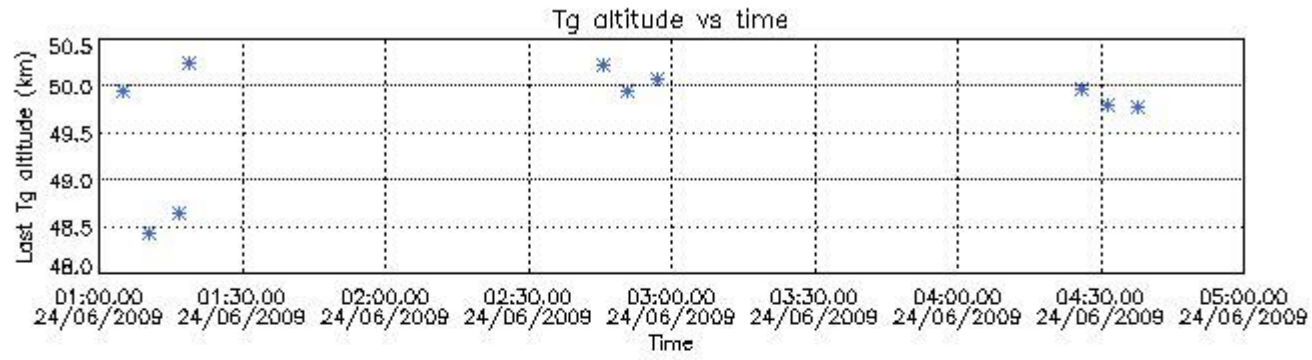
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

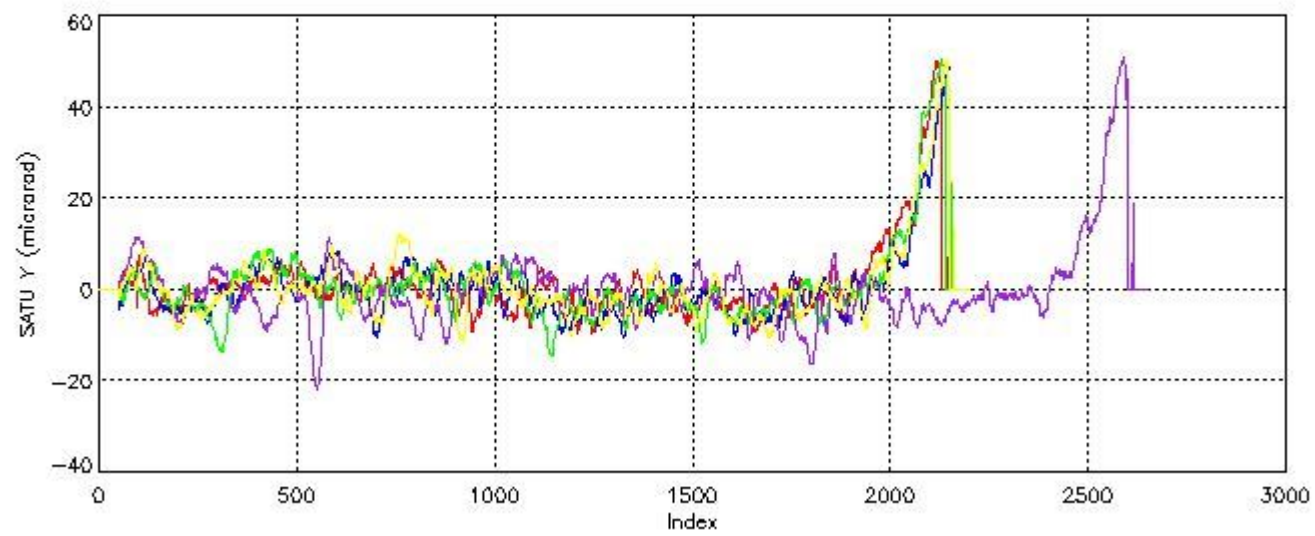
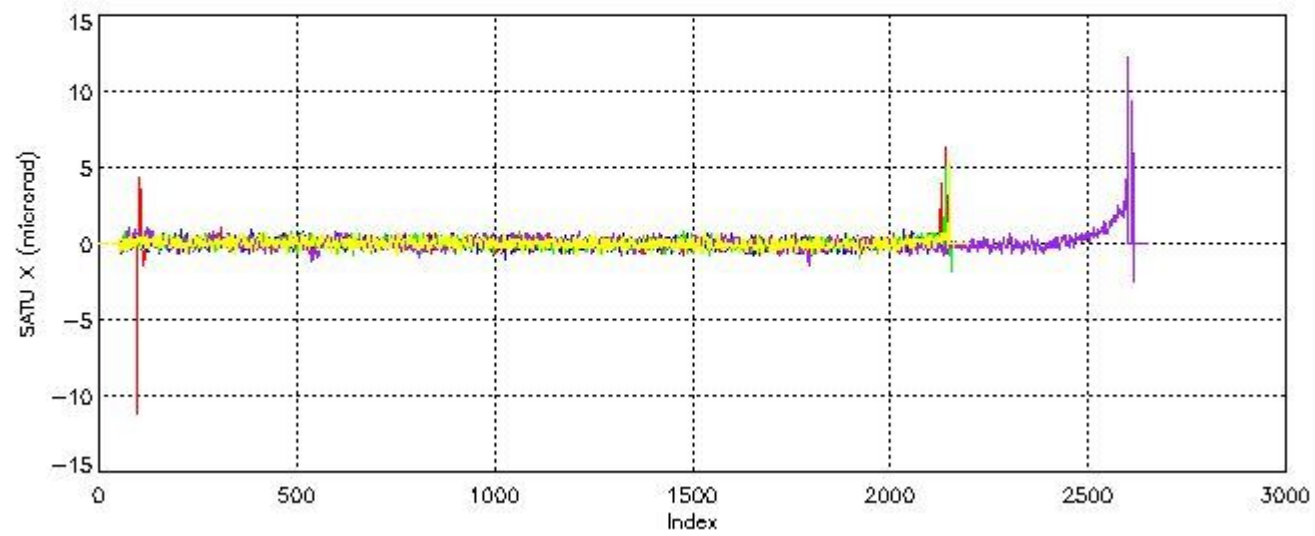


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.040286	0.11237	0.19223	-1.3706
St. deviation:	0.31653	4.1599	0.81778	4.6648
Maximum:	4.4000	12.200	3.3000	14.700
Minimum:	-11.200	-22.100	-3.0000	-18.300

Number of data:	4350.0	4350.0	8700.0	8700.0
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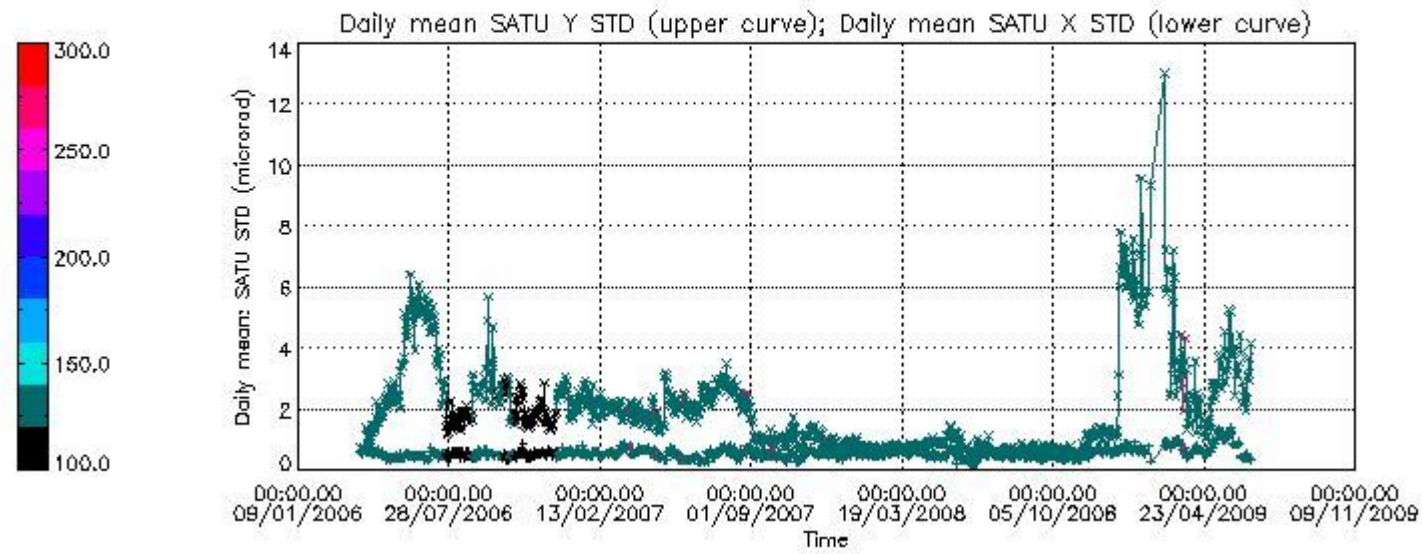
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

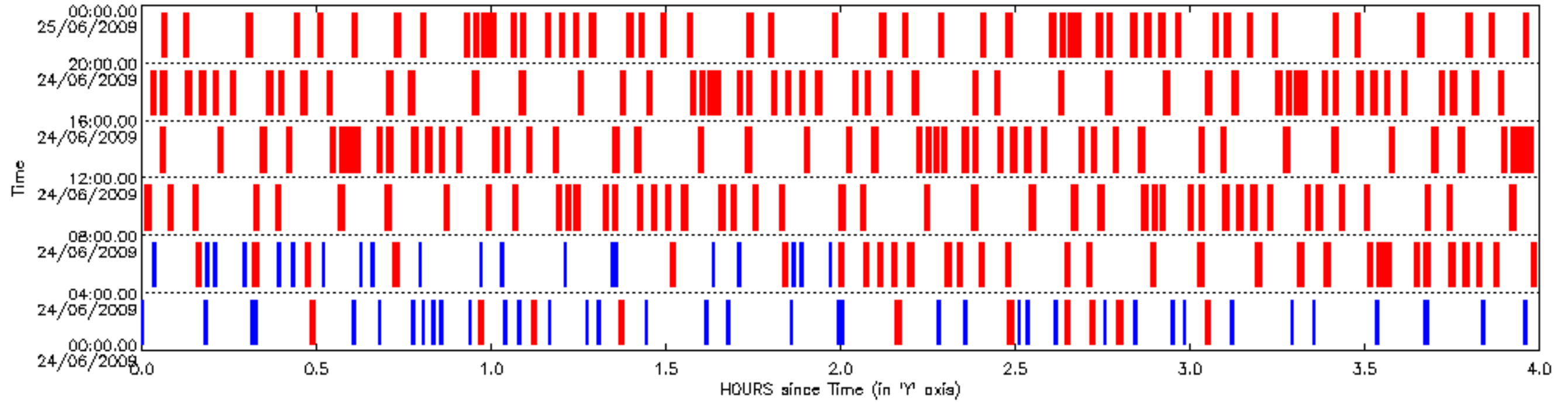
Lower curve: STD of SATU X axis

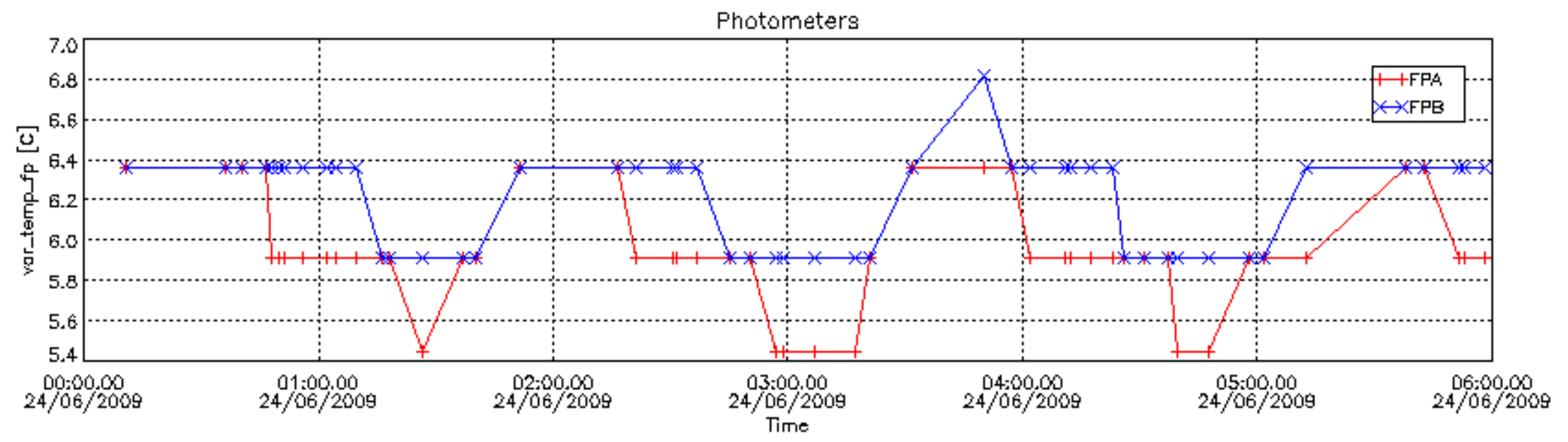
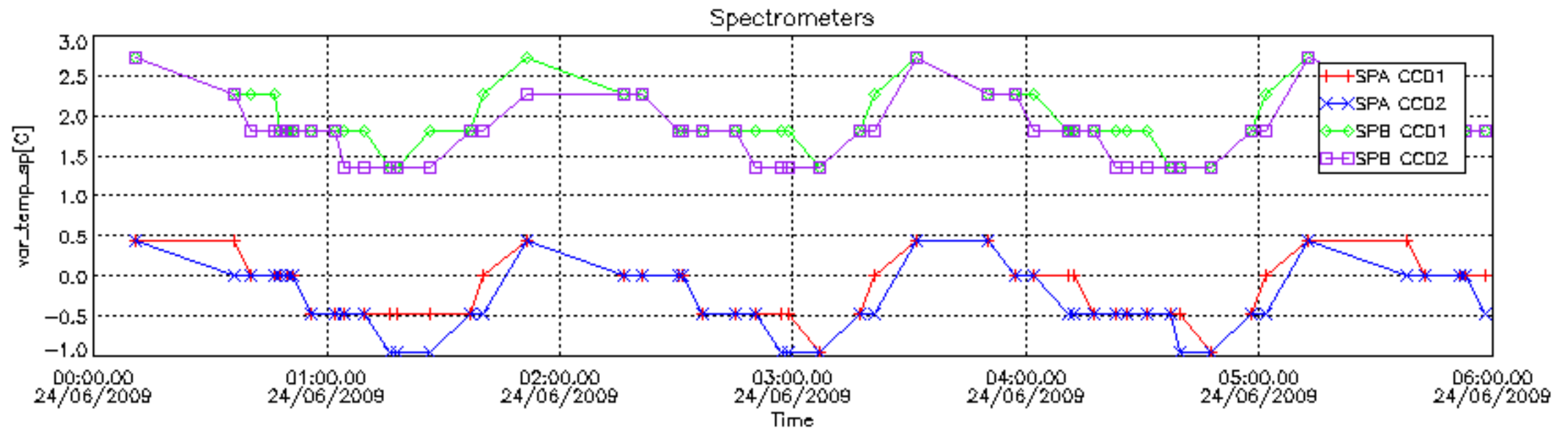


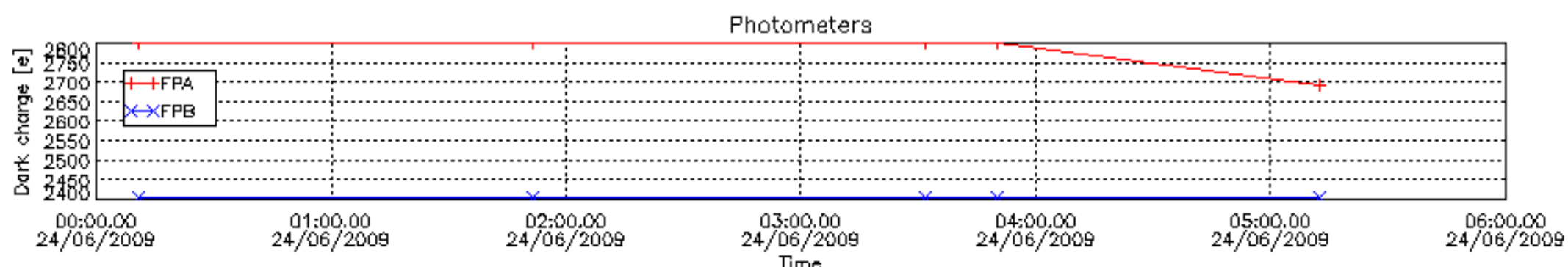
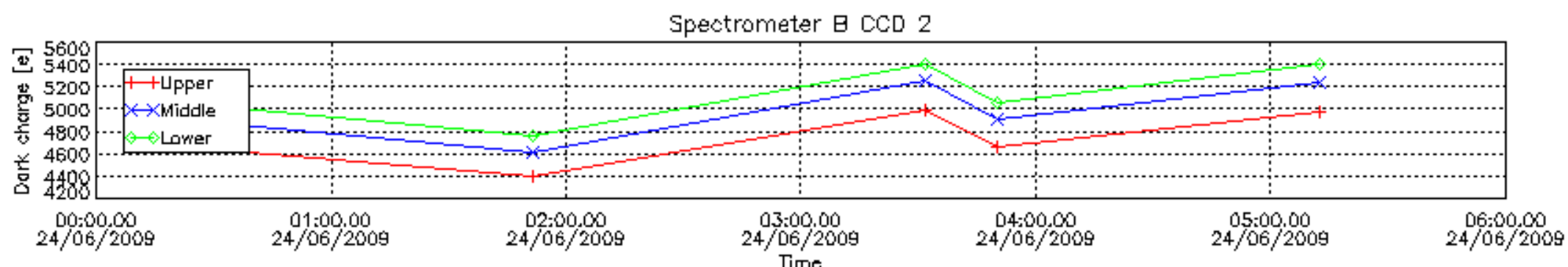
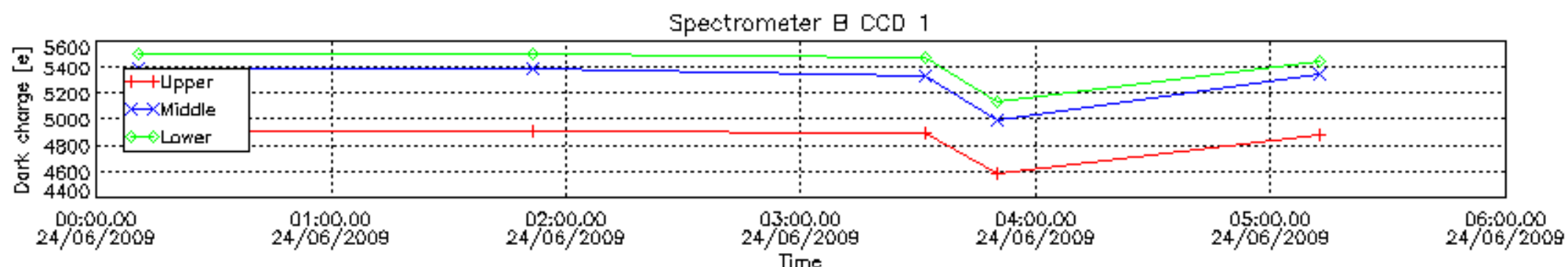
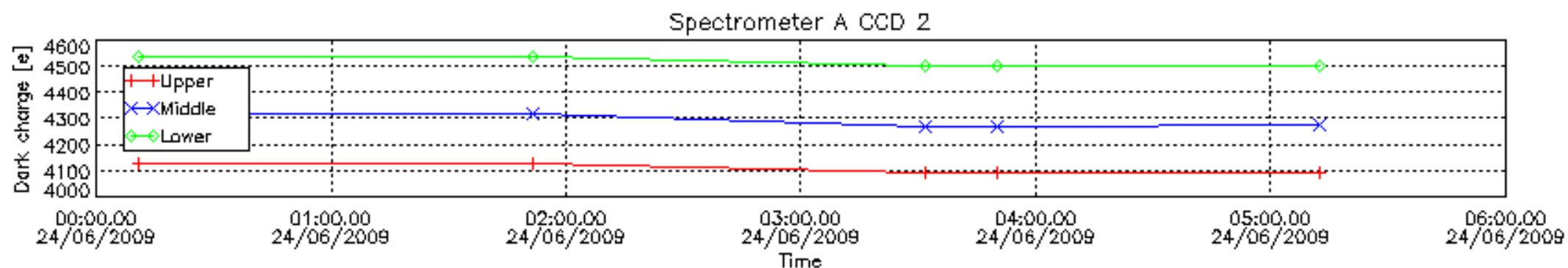
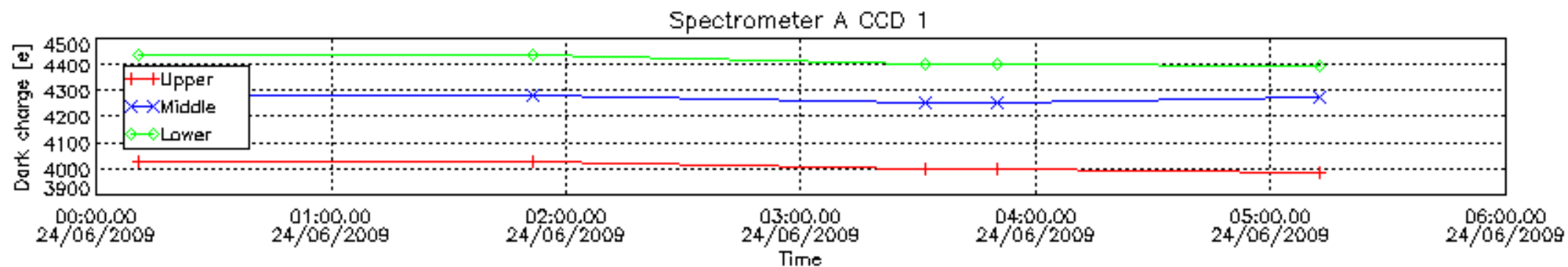
8. Auxiliary Data Files used for the production reported in section 2.4

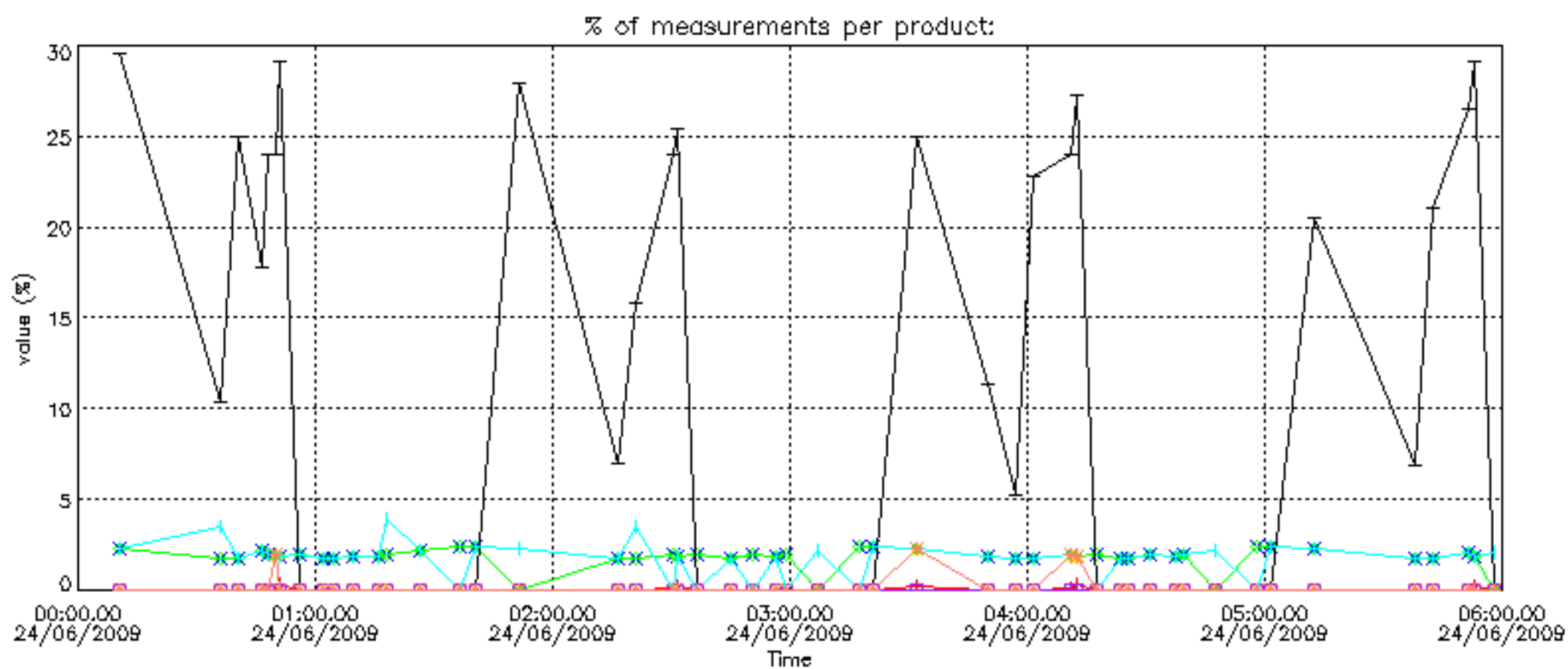
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-JUN-2009 00:10:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090623_092031_20090621_000000_20100101_000000	1	24-JUN-2009 00:10:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JUN-2009 00:10:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JUN-2009 00:10:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JUN-2009 00:10:42
ECMWF_FILE	AUX_ECF_AXNECM20090623_064113_20090623_210000_20090624_090000	1	24-JUN-2009 00:10:42
ECMWF_FILE	AUX_ECF_AXNECM20090623_184507_20090624_030000_20090624_150000	28	24-JUN-2009 03:17:19
OPTIONAL_ECMWF_FILE	MISSING	1	24-JUN-2009 00:10:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090623_204943_000060572080_00114_38244_8212.N1	1	24-JUN-2009 00:10:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090623_223040_000060572080_00115_38245_8213.N1	2	24-JUN-2009 00:36:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090624_001655_000054192080_00116_38246_8214.N1	18	24-JUN-2009 02:16:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090624_015234_000041442080_00117_38247_8215.N1	28	24-JUN-2009 03:17:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090624_030657_000057382080_00118_38248_8216.N1	43	24-JUN-2009 04:57:54

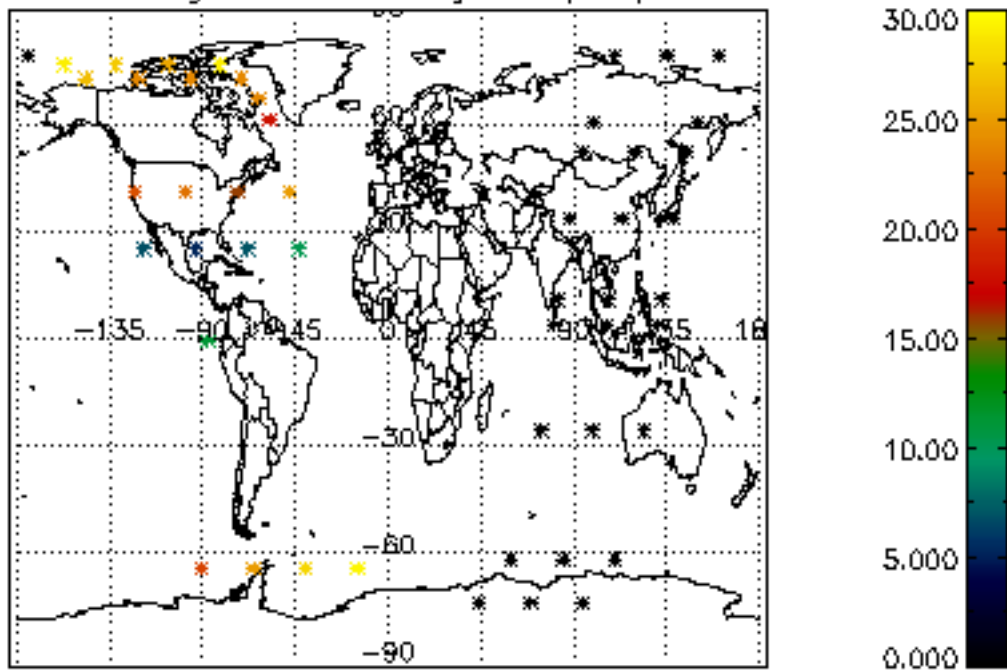




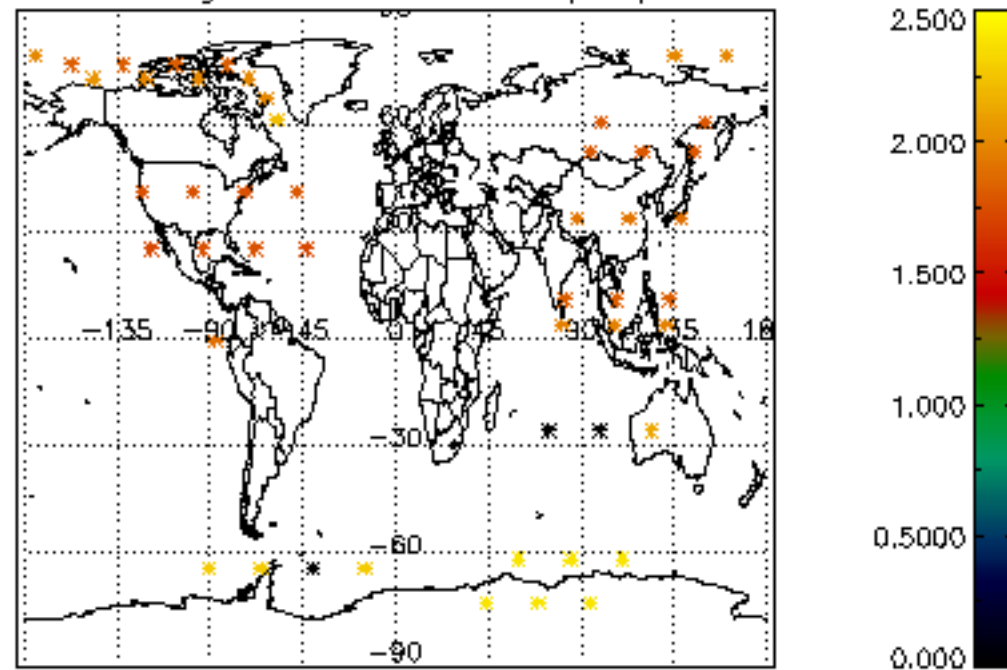




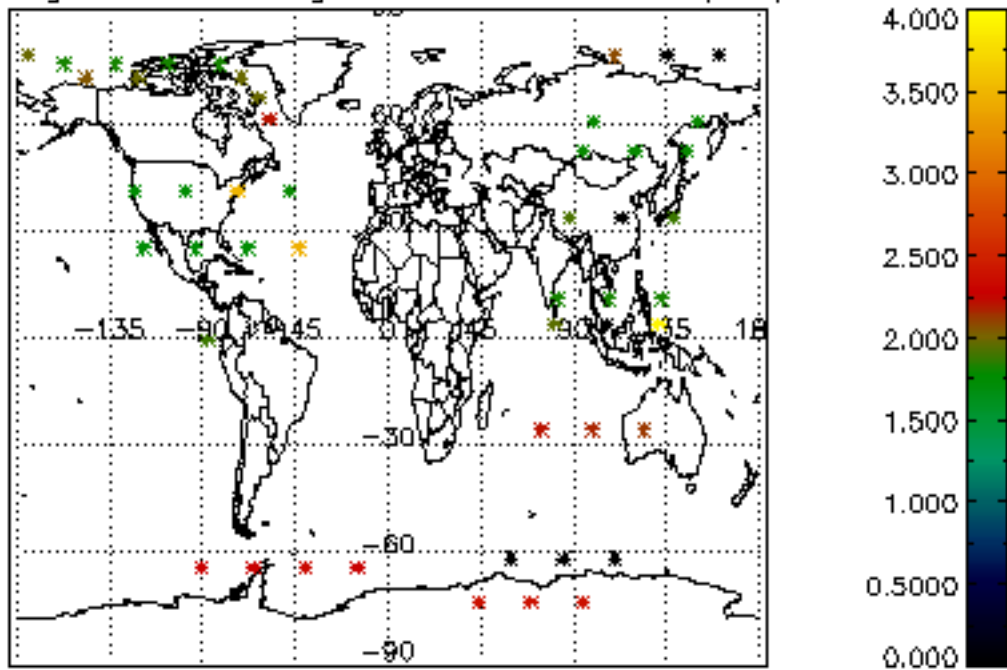
Percentage of cosmic ray hits per profile



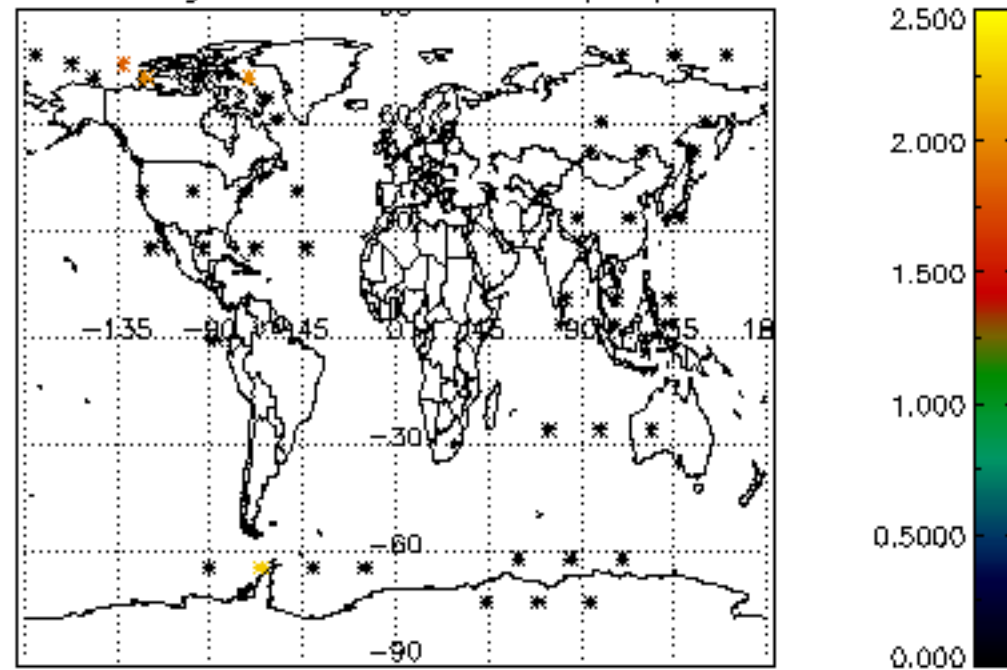
Percentage of datation errors per profile



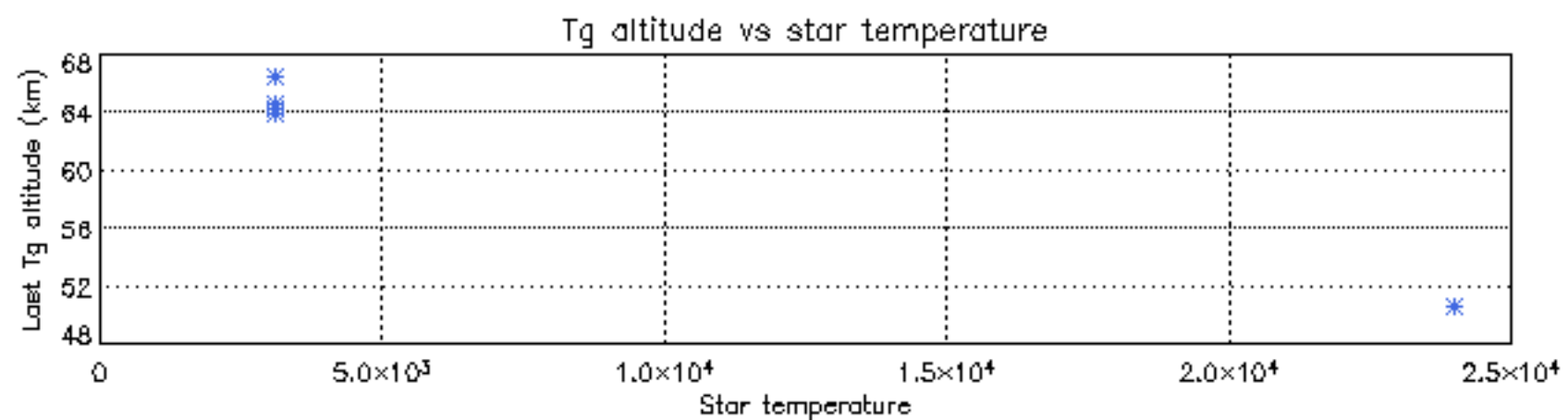
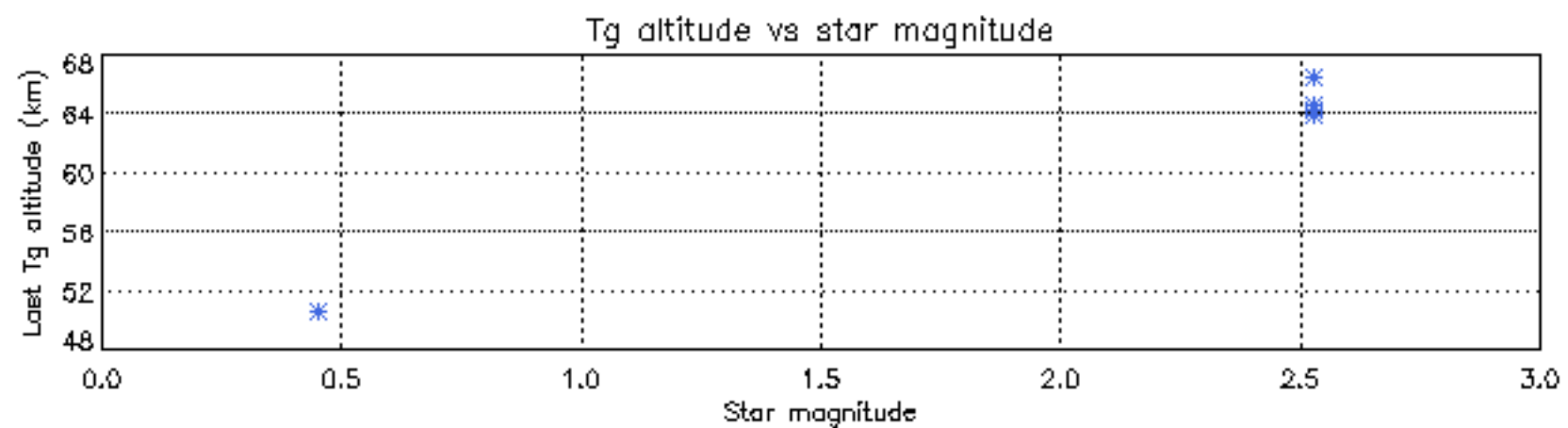
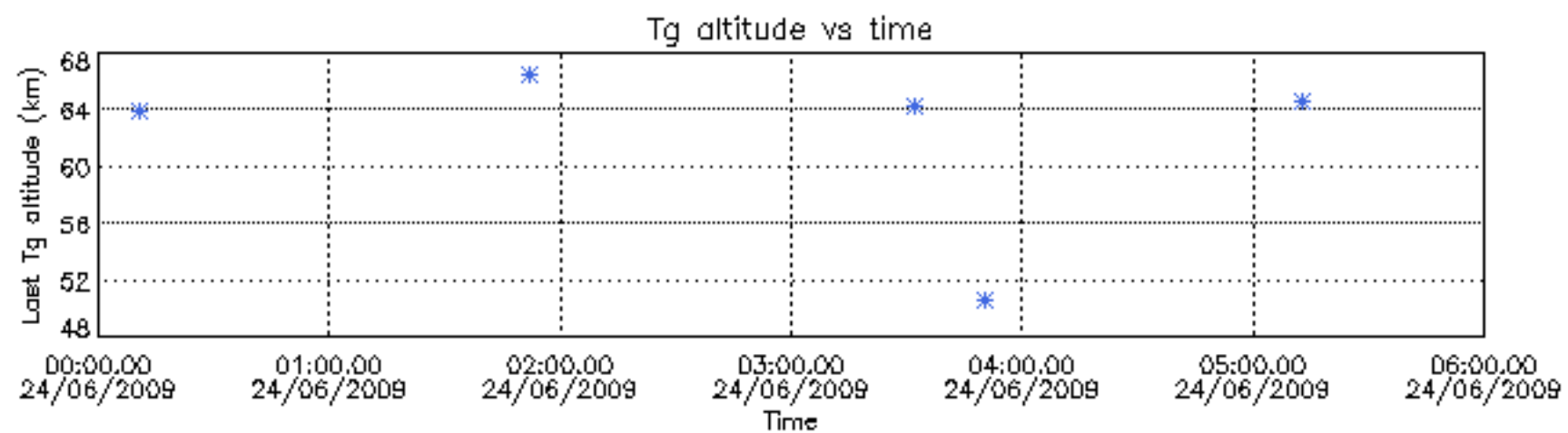
Percentage of star falling outside central band per profile



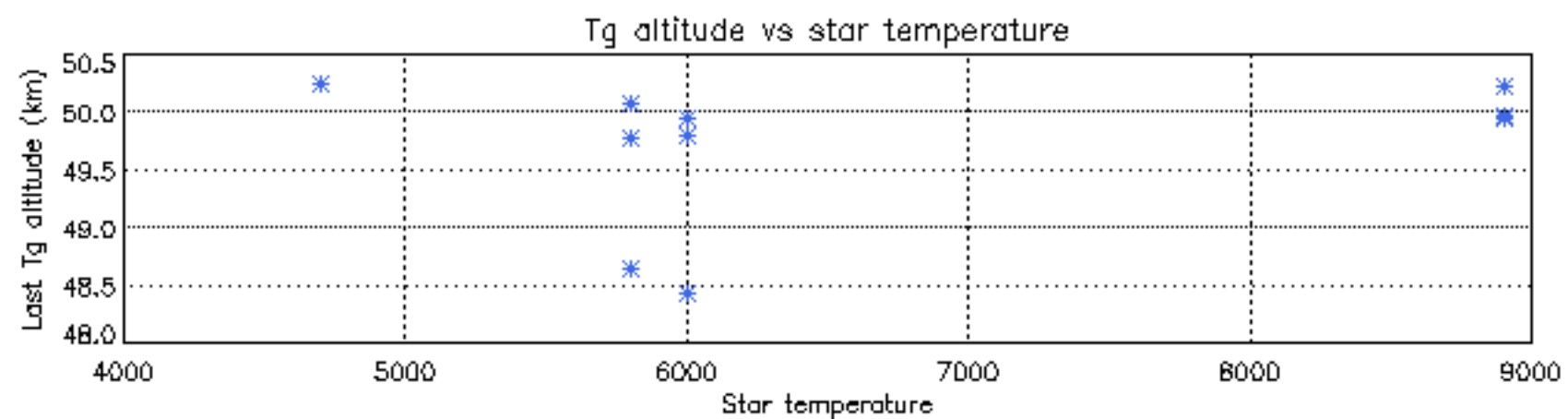
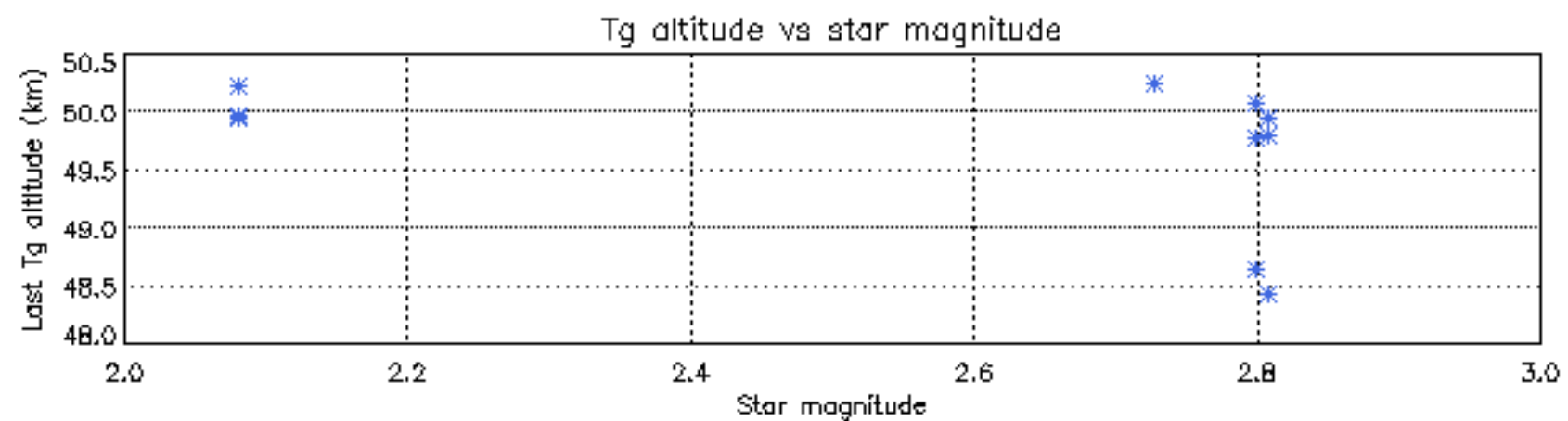
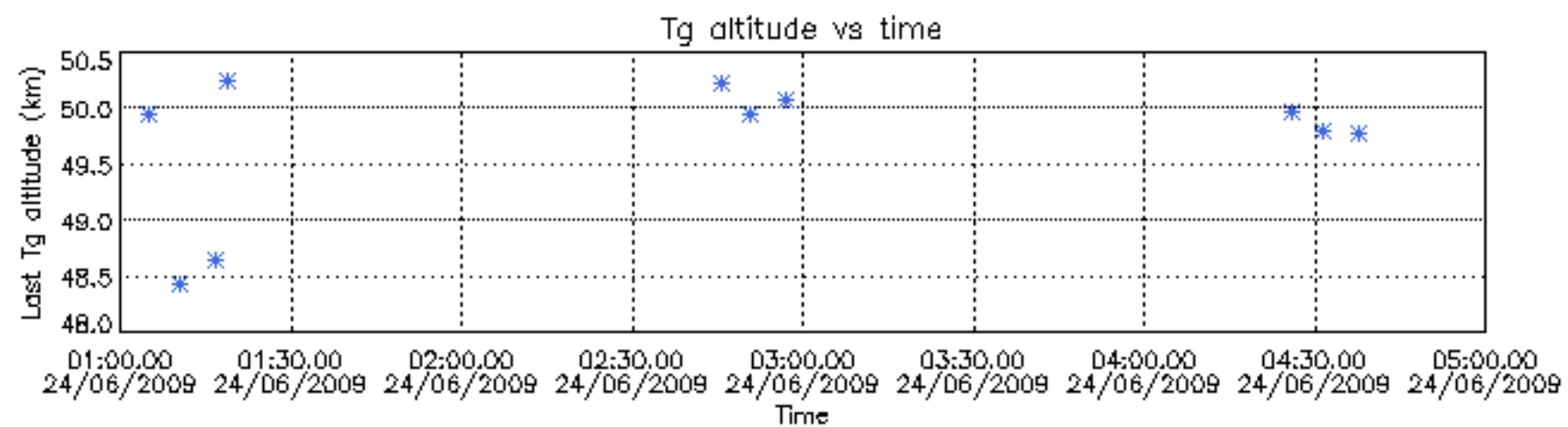
Percentage of saturation errors per profile

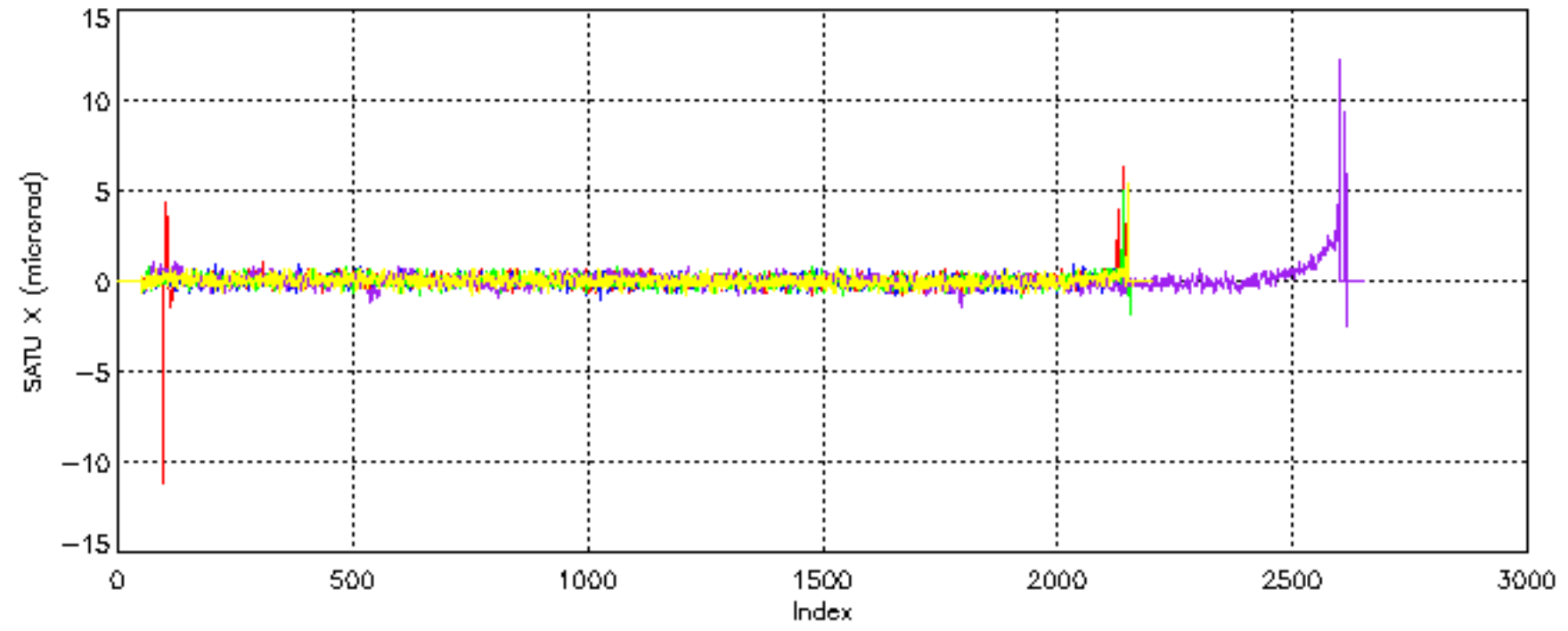


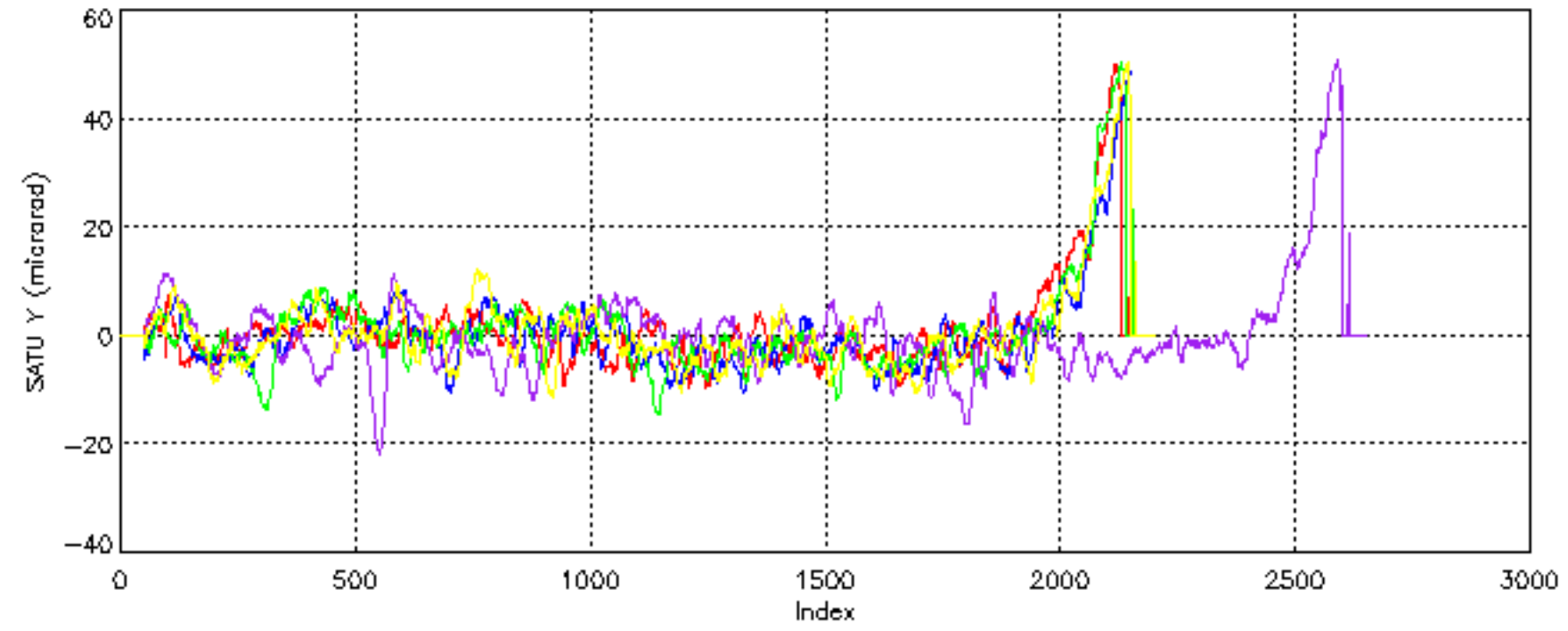
Tangent altitude at which the star is lost

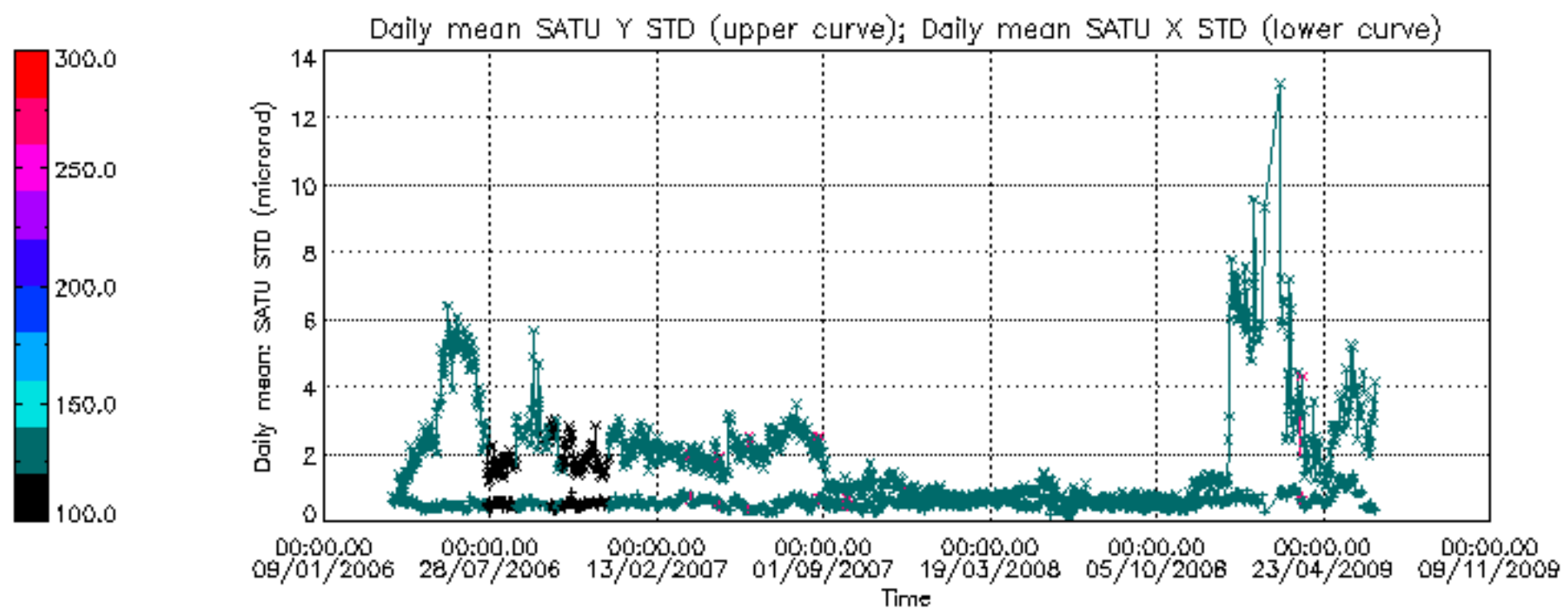


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090601_004956_000050022079_00288_37917_7897.N1
 1; -120.5; 01-JUN-2009 00:49:56; Dark ; 38.5; 18; 24Alp PsA ; 1.17; 9700;occ; 77; 0;37917
 2; 190.7; 01-JUN-2009 00:55:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37918
 3; 1105.6; 01-JUN-2009 01:10:22; Dark ; 35.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 71; 0;37918
 4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
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 5; 1213.7; 01-JUN-2009 21:19:21; Dark ; 36.0; 116; 19Del Sgr ; 2.70; 4100;occ; 72; 0;37930
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7; 1176.9; 10-JUN-2009 23:16:36; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38060
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4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38054
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11; 7210.9; 10-JUN-2009 14:53:34; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38054
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4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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12; 7211.6; 10-JUN-2009 16:34:11; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38055
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3; 2186.1; 10-JUN-2009 16:51:01; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38056
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5; 3541.8; 10-JUN-2009 17:13:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38056
6; 3900.8; 10-JUN-2009 17:19:36; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38056
7; 4406.3; 10-JUN-2009 17:28:01; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38056
8; 5381.0; 10-JUN-2009 17:44:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38056
9; 5494.1; 10-JUN-2009 17:46:09; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38056
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4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
5; 2898.9; 10-JUN-2009 18:43:30; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38057
6; 3540.6; 10-JUN-2009 18:54:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38057
7; 3900.7; 10-JUN-2009 19:00:12; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38057
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10; 5495.3; 10-JUN-2009 19:26:46; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38057
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5; 328.6; 11-JUN-2009 00:43:03; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38061
6; 418.4; 11-JUN-2009 00:44:33; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38061
7; 1177.4; 11-JUN-2009 00:57:12; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38061
8; 1296.6; 11-JUN-2009 00:59:11; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38061
9; 2026.9; 11-JUN-2009 01:11:22; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;38061
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11; 2897.1; 11-JUN-2009 01:25:52; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38061
12; 3538.3; 11-JUN-2009 01:36:33; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38061
13; 3899.2; 11-JUN-2009 01:42:34; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38061
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3; 81.7; 11-JUN-2009 02:19:32; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38062
4; 207.6; 11-JUN-2009 02:21:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38062
5; 329.2; 11-JUN-2009 02:23:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38062
6; 419.8; 11-JUN-2009 02:25:10; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38062
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8; 1297.3; 11-JUN-2009 02:39:48; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38062
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5; 208.9; 11-JUN-2009 04:02:15; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38063
6; 330.6; 11-JUN-2009 04:04:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38063
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3; -648.6; 11-JUN-2009 05:28:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38063
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8; 422.8; 11-JUN-2009 05:46:25; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38064
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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
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8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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12; 6461.4; 11-JUN-2009 09:07:40; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
13; 7215.7; 11-JUN-2009 09:20:14; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38065
14; 7334.8; 11-JUN-2009 09:22:13; Dark ; 35.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 70; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
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6; 4406.9; 11-JUN-2009 10:14:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38066
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2; 1301.9; 11-JUN-2009 21:06:28; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38073
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6; 437.5; 12-JUN-2009 00:13:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38075
7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
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3; 2894.5; 11-JUN-2009 11:29:25; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38067
4; 3897.6; 11-JUN-2009 11:46:08; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38067
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8; 6127.5; 11-JUN-2009 12:23:18; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38067
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12; 7216.3; 11-JUN-2009 12:41:27; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
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13; 7216.8; 11-JUN-2009 14:22:03; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38068
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5; 3897.2; 11-JUN-2009 15:07:19; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38069
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7; 5393.0; 11-JUN-2009 15:32:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38069
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9; 6130.8; 11-JUN-2009 15:44:33; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38069
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13; 7217.5; 11-JUN-2009 16:02:40; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38069
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3; 2180.2; 11-JUN-2009 16:19:18; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38070
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5; 3532.4; 11-JUN-2009 16:41:50; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38070
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12; 6253.7; 11-JUN-2009 19:07:48; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38071
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
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6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
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3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
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4; 233.5; 12-JUN-2009 23:38:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38089
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9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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13; 3891.1; 13-JUN-2009 00:39:12; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38089
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9; 6149.2; 12-JUN-2009 11:52:03; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38081
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13; 7222.4; 12-JUN-2009 12:09:56; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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4; 3524.2; 12-JUN-2009 12:48:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38082
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8; 5517.3; 12-JUN-2009 13:22:07; Dark ; 31.5; 52; 16Bet Cet ; 2.04; 4500;occ; 63; 0;38082
9; 6151.2; 12-JUN-2009 13:32:40; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38082
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5; 3893.2; 12-JUN-2009 14:35:38; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38083


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4; 2014.4; 13-JUN-2009 20:15:06; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38101
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 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
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 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
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 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
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4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
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7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
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7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
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6; 2775.4; 17-JUN-2009 21:42:31; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38159
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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13; 6454.4; 17-JUN-2009 09:19:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
14; 6577.2; 17-JUN-2009 09:21:06; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38151
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16; 7368.6; 17-JUN-2009 09:34:17; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38151
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13; 6455.7; 17-JUN-2009 10:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38152

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13; 3460.7; 19-JUN-2009 02:24:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38176

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8; 3453.2; 19-JUN-2009 20:50:35; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38187
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14; 6377.4; 20-JUN-2009 16:05:54; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38198
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9; 4672.9; 29-JUN-2009 12:33:33; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38325
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4; 3357.7; 29-JUN-2009 13:52:13; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38326
5; 3795.8; 29-JUN-2009 13:59:31; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38326

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 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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6; 2231.9; 01-JUL-2009 00:46:02; Bright; 72.0; 168; 17Zet Aql ; 2.99; 11000;occ; 144; 0;38347
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