

# GOMOS Daily Report 03-APR-2011

## 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	05APR2011 07:01:09
Data source version	GOMOS/5.01
Start time of products	03APR2011 00:04:55
Stop time of products	03APR2011 15:45:33
Store outputs in DB	Yes
Nb of level 1b prods	176
Nb of prods with errors	2

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

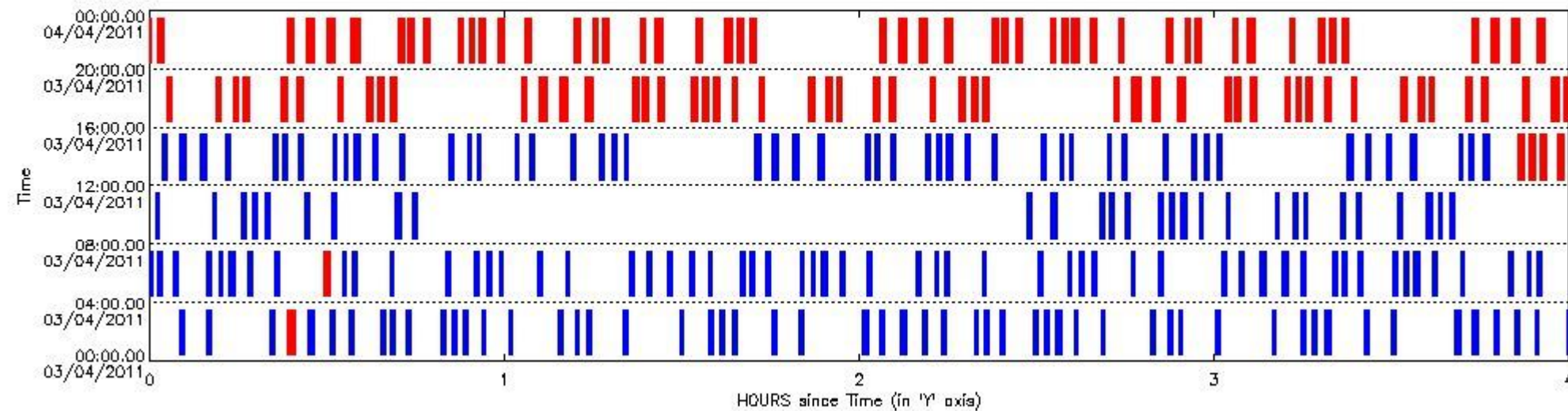
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
03-APR-2011 00:23:10	38ZetSgr	103	47530
03-APR-2011 04:29:27	12Alp2CVn	152	47533
03-APR-2011 15:51:21	9BetCrv	106	47540
03-APR-2011 15:53:16	4GamCrv	100	47540
03-APR-2011 15:54:58	67AlpVir	15	47540
03-APR-2011 15:58:09	29GamVir	121	47540
03-APR-2011 16:02:47	94BetLeo	62	47540
03-APR-2011 16:11:01	12Alp2CVn	152	47540
03-APR-2011 16:14:06	64GamUMa	87	47540
03-APR-2011 16:15:47	77EpsUMa	32	47540
03-APR-2011 16:22:09	7BetUMi	60	47540
03-APR-2011 16:24:42	14EtaDra	119	47540
03-APR-2011 16:31:42	5AlpCep	89	47540
03-APR-2011 16:36:33	18DelCyg	144	47540
03-APR-2011 16:38:33	37GamCyg	66	47540

03-APR-2011 16:40:40	53EpsCyg	92	47540
03-APR-2011 17:02:43	DSA1040	0	47540
03-APR-2011 17:05:47	34SigSgr	57	47540
03-APR-2011 17:09:18	20EpsSgr	38	47541
03-APR-2011 17:13:31	35LamSco	25	47541
03-APR-2011 17:21:35	AlpLup	78	47541
03-APR-2011 17:23:11	EtaCen	81	47541
03-APR-2011 17:25:50	5TheCen	54	47541
03-APR-2011 17:31:35	9BetCrv	106	47541
03-APR-2011 17:33:30	4GamCrv	100	47541
03-APR-2011 17:35:12	67AlpVir	15	47541
03-APR-2011 17:38:23	29GamVir	121	47541
03-APR-2011 17:43:01	94BetLeo	62	47541
03-APR-2011 17:51:15	12Alp2CVn	152	47541
03-APR-2011 17:54:20	64GamUMa	87	47541
03-APR-2011 17:56:01	77EpsUMa	32	47541
03-APR-2011 18:02:22	7BetUMi	60	47541
03-APR-2011 18:04:55	14EtaDra	119	47541
03-APR-2011 18:11:56	5AlpCep	89	47541
03-APR-2011 18:16:47	18DelCyg	144	47541
03-APR-2011 18:18:47	37GamCyg	66	47541
03-APR-2011 18:20:54	53EpsCyg	92	47541
03-APR-2011 18:42:58	DSA1040	0	47541
03-APR-2011 18:46:03	34SigSgr	57	47541
03-APR-2011 18:49:33	20EpsSgr	38	47542
03-APR-2011 18:53:46	35LamSco	25	47542
03-APR-2011 19:01:50	AlpLup	78	47542
03-APR-2011 19:03:26	EtaCen	81	47542
03-APR-2011 19:06:04	5TheCen	54	47542
03-APR-2011 19:11:50	9BetCrv	106	47542
03-APR-2011 19:13:45	4GamCrv	100	47542
03-APR-2011 19:15:26	67AlpVir	15	47542
03-APR-2011 19:18:37	29GamVir	121	47542
03-APR-2011 19:23:15	94BetLeo	62	47542
03-APR-2011 19:31:28	12Alp2CVn	152	47542
03-APR-2011 19:34:34	64GamUMa	87	47542
03-APR-2011 19:36:15	77EpsUMa	32	47542
03-APR-2011 19:42:36	7BetUMi	60	47542
03-APR-2011 19:45:09	14EtaDra	119	47542
03-APR-2011 19:52:10	5AlpCep	89	47542
03-APR-2011 19:57:00	18DelCyg	144	47542
03-APR-2011 19:59:01	37GamCyg	66	47542
03-APR-2011 20:01:08	53EpsCyg	92	47542
03-APR-2011 20:23:12	DSA1040	0	47542
03-APR-2011 20:26:18	34SigSgr	57	47542
03-APR-2011 20:29:48	20EpsSgr	38	47543
03-APR-2011 20:34:01	35LamSco	25	47543
03-APR-2011 20:42:04	AlpLup	78	47543
03-APR-2011 20:43:40	EtaCen	81	47543
03-APR-2011 20:46:19	5TheCen	54	47543
03-APR-2011 20:52:04	9BetCrv	106	47543
03-APR-2011 20:53:59	4GamCrv	100	47543
03-APR-2011 20:55:40	67AlpVir	15	47543
03-APR-2011 20:58:51	29GamVir	121	47543
03-APR-2011 21:03:29	94BetLeo	62	47543
03-APR-2011 21:11:42	12Alp2CVn	152	47543
03-APR-2011 21:14:47	64GamUMa	87	47543
03-APR-2011 21:16:28	77EpsUMa	32	47543
03-APR-2011 21:22:50	7BetUMi	60	47543

03-APR-2011 21:25:22	14EtaDra	119	47543
03-APR-2011 21:32:24	5AlpCep	89	47543
03-APR-2011 21:37:14	18DelCyg	144	47543
03-APR-2011 21:39:15	37GamCyg	66	47543
03-APR-2011 21:41:22	53EpsCyg	92	47543
03-APR-2011 22:03:27	DSA1040	0	47543
03-APR-2011 22:06:34	34SigSgr	57	47543
03-APR-2011 22:10:04	20EpsSgr	38	47544
03-APR-2011 22:14:17	35LamSco	25	47544
03-APR-2011 22:22:19	AlpLup	78	47544
03-APR-2011 22:23:55	EtaCen	81	47544
03-APR-2011 22:26:33	5TheCen	54	47544
03-APR-2011 22:32:18	9BetCrv	106	47544
03-APR-2011 22:34:13	4GamCrv	100	47544
03-APR-2011 22:35:54	67AlpVir	15	47544
03-APR-2011 22:39:05	29GamVir	121	47544
03-APR-2011 22:43:43	94BetLeo	62	47544
03-APR-2011 22:51:55	12Alp2CVn	152	47544
03-APR-2011 22:55:01	64GamUMa	87	47544
03-APR-2011 22:56:42	77EpsUMa	32	47544
03-APR-2011 23:03:03	7BetUMi	60	47544
03-APR-2011 23:05:35	14EtaDra	119	47544
03-APR-2011 23:12:38	5AlpCep	89	47544
03-APR-2011 23:17:28	18DelCyg	144	47544
03-APR-2011 23:19:29	37GamCyg	66	47544
03-APR-2011 23:21:36	53EpsCyg	92	47544
03-APR-2011 23:43:42	DSA1040	0	47544
03-APR-2011 23:46:49	34SigSgr	57	47544
03-APR-2011 23:50:19	20EpsSgr	38	47545
03-APR-2011 23:54:32	35LamSco	25	47545

#### 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_1PNPDE20110403_000455_000000473101_00102_47530_2631.N1	03-APR-2011 00:04:55	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47530	No
2	GOM_TRA_1PNPDE20110403_000932_000000453101_00102_47530_2632.N1	03-APR-2011 00:09:32	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	47530	No
3	GOM_TRA_1PNPDE20110403_002642_000000583101_00103_47531_2640.N1	03-APR-2011 00:26:42	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	47531	No
4	GOM_TRA_1PNPDE20110403_003021_000000523101_00103_47531_2641.N1	03-APR-2011 00:30:21	Dark	52.000	40	The Sco	1.8590	7100.0	104	47531	No
5	GOM_TRA_1PNPDE20110403_003342_000000403101_00103_47531_2642.N1	03-APR-2011 00:33:42	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	47531	No
6	GOM_TRA_1PNPDE20110403_003907_000000453101_00103_47531_2643.N1	03-APR-2011 00:39:07	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	47531	No
7	GOM_TRA_1PNPDE20110403_004043_000000483101_00103_47531_2644.N1	03-APR-2011 00:40:43	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	47531	No
8	GOM_TRA_1PNPDE20110403_004322_000000503101_00103_47531_2645.N1	03-APR-2011 00:43:22	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	47531	No
9	GOM_TRA_1PNPDE20110403_004911_000000473101_00103_47531_2646.N1	03-APR-2011 00:49:11	Twilight	46.500	106	9Bet Crv	2.6480	5600.0	93	47531	No
10	GOM_TRA_1PNPDE20110403_005107_000000443101_00103_47531_2647.N1	03-APR-2011 00:51:07	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	47531	No
11	GOM_TRA_1PNPDE20110403_005250_000000603101_00103_47531_2648.N1	03-APR-2011 00:52:50	Bright	60.000	15	67Alp Vir	0.97600	28000.	120	47531	No
12	GOM_TRA_1PNPDE20110403_005602_000000443101_00103_47531_2649.N1	03-APR-2011 00:56:02	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	47531	No
13	GOM_TRA_1PNPDE20110403_010039_000000383101_00103_47531_2650.N1	03-APR-2011 01:00:39	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47531	No
14	GOM_TRA_1PNPDE20110403_010857_000000443101_00103_47531_2651.N1	03-APR-2011 01:08:57	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	47531	No
15	GOM_TRA_1PNPDE20110403_011159_000000373101_00103_47531_2652.N1	03-APR-2011 01:11:59	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47531	No
16	GOM_TRA_1PNPDE20110403_011342_000000593101_00103_47531_2653.N1	03-APR-2011 01:13:42	Bright	59.000	32	77Eps UMa	1.7630	11000.	118	47531	No
17	GOM_TRA_1PNPDE20110403_012003_000000393101_00103_47531_2654.N1	03-APR-2011 01:20:03	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47531	No
18	GOM_TRA_1PNPDE20110403_012934_000000393101_00103_47531_2655.N1	03-APR-2011 01:29:34	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47531	No
19	GOM_TRA_1PNPDE20110403_013426_000000483101_00103_47531_2656.N1	03-APR-2011 01:34:26	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	47531	No
20	GOM_TRA_1PNPDE20110403_013625_000000463101_00103_47531_2657.N1	03-APR-2011 01:36:25	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	47531	No
21	GOM_TRA_1PNPDE20110403_013830_000000453101_00103_47531_2658.N1	03-APR-2011 01:38:30	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	47531	No
22	GOM_TRA_1PNPDE20110403_014509_000000473101_00103_47531_2659.N1	03-APR-2011 01:45:09	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47531	No
23	GOM_TRA_1PNPDE20110403_014947_000000433101_00103_47531_2660.N1	03-APR-2011 01:49:47	Dark	43.000	154	22Bet Aqr	2.8990	5700.0	86	47531	No
24	GOM_TRA_1PNPDE20110403_020322_000000553101_00103_47531_2664.N1	03-APR-2011 02:03:22	Dark	55.000	103	38Zet Sgr	2.6000	9700.0	110	47531	No



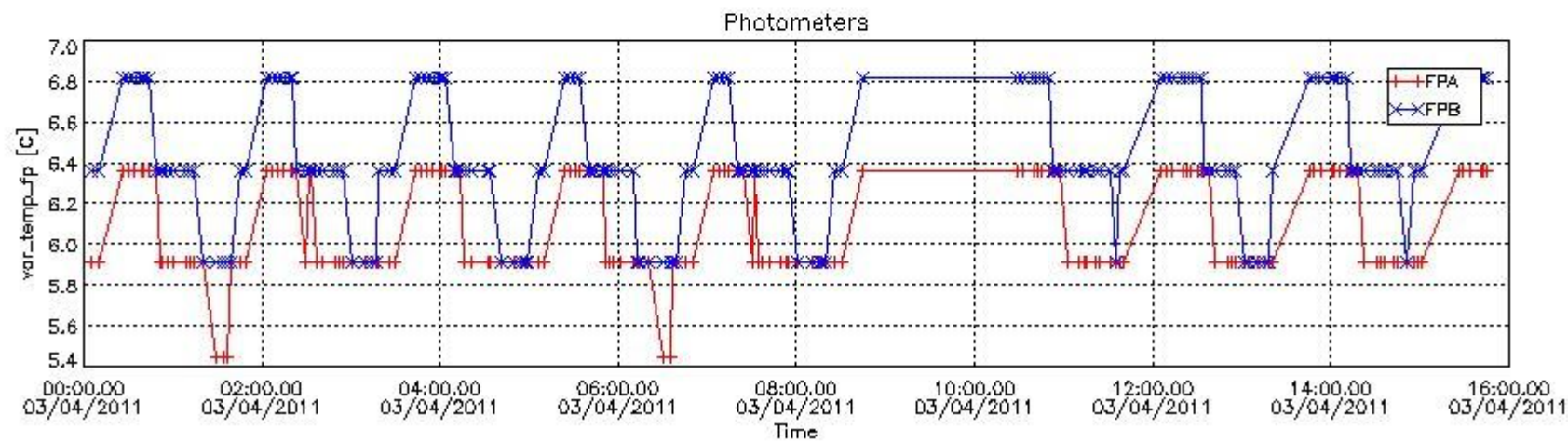
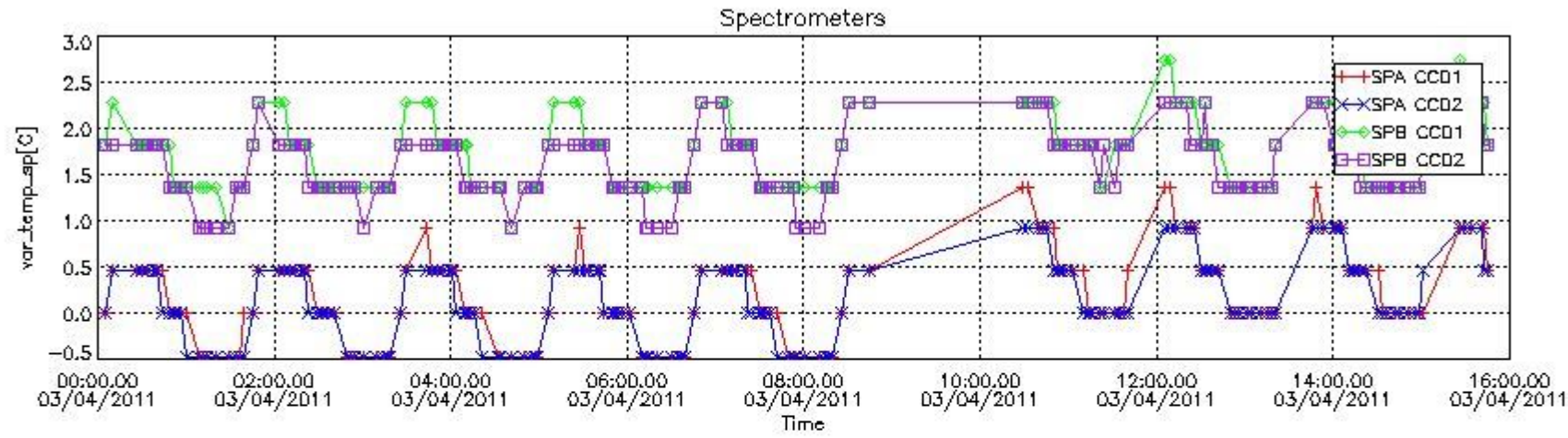




143	GOM_TRA_1PNPDK20110403_125336_000000373101_00110_47538_9407.N1	03-APR-2011 12:53:36	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47538	No
144	GOM_TRA_1PNPDK20110403_125518_000000413101_00110_47538_9408.N1	03-APR-2011 12:55:18	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	47538	No
145	GOM_TRA_1PNPDK20110403_130139_000000413101_00110_47538_9409.N1	03-APR-2011 13:01:39	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	47538	No
146	GOM_TRA_1PNPDK20110403_130413_000000443101_00110_47538_9410.N1	03-APR-2011 13:04:13	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	47538	No
147	GOM_TRA_1PNPDK20110403_131112_000000383101_00110_47538_9411.N1	03-APR-2011 13:11:12	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	47538	No
148	GOM_TRA_1PNPDK20110403_131603_000000483101_00110_47538_9412.N1	03-APR-2011 13:16:03	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	47538	No
149	GOM_TRA_1PNPDK20110403_131803_000000453101_00110_47538_9413.N1	03-APR-2011 13:18:03	Bright	44.500	66	37Gam Cyg	2.2080	5900.0	89	47538	No
150	GOM_TRA_1PNPDK20110403_132009_000000443101_00110_47538_9414.N1	03-APR-2011 13:20:09	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	47538	No
151	GOM_TRA_1PNPDK20110403_134514_000000593101_00110_47538_9415.N1	03-APR-2011 13:45:14	Dark	59.000	57	34Sig Sgr	2.0660	26000.	118	47538	No
152	GOM_TRA_1PNPDK20110403_134845_000000583101_00111_47539_9416.N1	03-APR-2011 13:48:45	Dark	58.000	38	20Eps Sgr	1.8360	11000.	116	47539	No
153	GOM_TRA_1PNPDK20110403_135257_000000593101_00111_47539_9417.N1	03-APR-2011 13:52:57	Dark	58.500	25	35Lam Sco	1.6200	28000.	117	47539	No
154	GOM_TRA_1PNPDK20110403_140104_000000443101_00111_47539_9418.N1	03-APR-2011 14:01:04	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47539	No
155	GOM_TRA_1PNPDK20110403_140239_000000513101_00111_47539_9419.N1	03-APR-2011 14:02:39	Straylight	50.500	81	Eta Cen	2.3560	28000.	101	47539	No
156	GOM_TRA_1PNPDK20110403_140518_000000523101_00111_47539_9420.N1	03-APR-2011 14:05:18	Straylight	51.500	54	5The Cen	2.0550	4500.0	103	47539	No
157	GOM_TRA_1PNPDK20110403_141105_000000463101_00111_47539_9430.N1	03-APR-2011 14:11:05	Twilight_and_stray	46.000	106	9Bet Crv	2.6480	5600.0	92	47539	Yes
158	GOM_TRA_1PNPDK20110403_141300_000000453101_00111_47539_9431.N1	03-APR-2011 14:13:00	Twilight_and_stray	44.500	100	4Gam Crv	2.5800	13100.	89	47539	No
159	GOM_TRA_1PNPDK20110403_141442_000000613101_00111_47539_9432.N1	03-APR-2011 14:14:42	Bright	60.500	15	67Alp Vir	0.97600	28000.	121	47539	No
160	GOM_TRA_1PNPDK20110403_141753_000000433101_00111_47539_9433.N1	03-APR-2011 14:17:53	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	47539	No
161	GOM_TRA_1PNPDK20110403_142231_000000383101_00111_47539_9434.N1	03-APR-2011 14:22:31	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47539	No
162	GOM_TRA_1PNPDK20110403_143045_000000433101_00111_47539_9435.N1	03-APR-2011 14:30:45	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	47539	No
163	GOM_TRA_1PNPDK20110403_143350_000000383101_00111_47539_9436.N1	03-APR-2011 14:33:50	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	47539	No
164	GOM_TRA_1PNPDK20110403_143531_000000403101_00111_47539_9437.N1	03-APR-2011 14:35:31	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47539	No
165	GOM_TRA_1PNPDK20110403_144152_000000373101_00111_47539_9438.N1	03-APR-2011 14:41:52	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47539	No
166	GOM_TRA_1PNPDK20110403_144426_000000483101_00111_47539_9439.N1	03-APR-2011 14:44:26	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47539	No
167	GOM_TRA_1PNPDK20110403_145126_000000383101_00111_47539_9440.N1	03-APR-2011 14:51:26	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47539	No
168	GOM_TRA_1PNPDK20110403_145616_000000453101_00111_47539_9441.N1	03-APR-2011 14:56:16	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	47539	No
169	GOM_TRA_1PNPDK20110403_145817_000000453101_00111_47539_9442.N1	03-APR-2011 14:58:17	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	47539	No
170	GOM_TRA_1PNPDK20110403_150023_000000443101_00111_47539_9443.N1	03-APR-2011 15:00:23	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	47539	No
171	GOM_TRA_1PNPDK20110403_152530_000000603101_00111_47539_9444.N1	03-APR-2011 15:25:30	Dark	60.000	57	34Sig Sgr	2.0660	26000.	120	47539	No
172	GOM_TRA_1PNPDK20110403_152900_000000573101_00112_47540_9445.N1	03-APR-2011 15:29:00	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	47540	No
173	GOM_TRA_1PNPDK20110403_153313_000000603101_00112_47540_9446.N1	03-APR-2011 15:33:13	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47540	No
174	GOM_TRA_1PNPDK20110403_154118_000000443101_00112_47540_9447.N1	03-APR-2011 15:41:18	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47540	No
175	GOM_TRA_1PNPDK20110403_154254_000000503101_00112_47540_9448.N1	03-APR-2011 15:42:54	Straylight	49.500	81	Eta Cen	2.3560	28000.	99	47540	No
176	GOM_TRA_1PNPDK20110403_154533_000000533101_00112_47540_9449.N1	03-APR-2011 15:45:33	Straylight	53.000	54	5The Cen	2.0550	4500.0	106	47540	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).

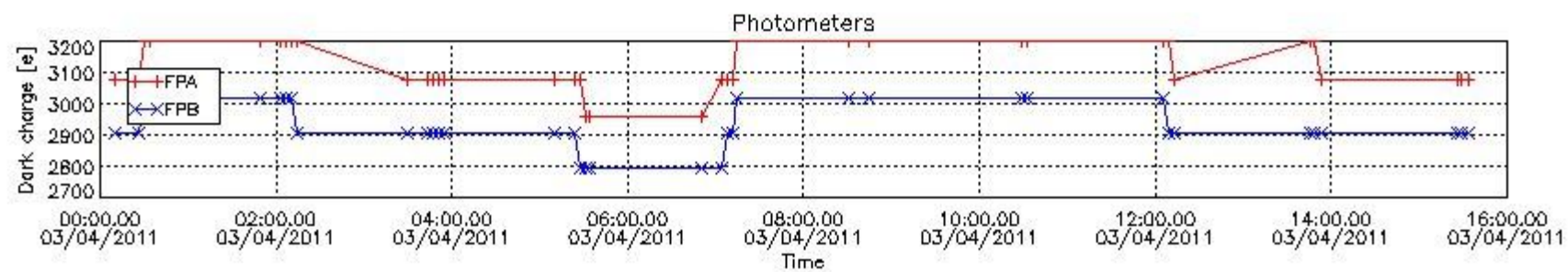
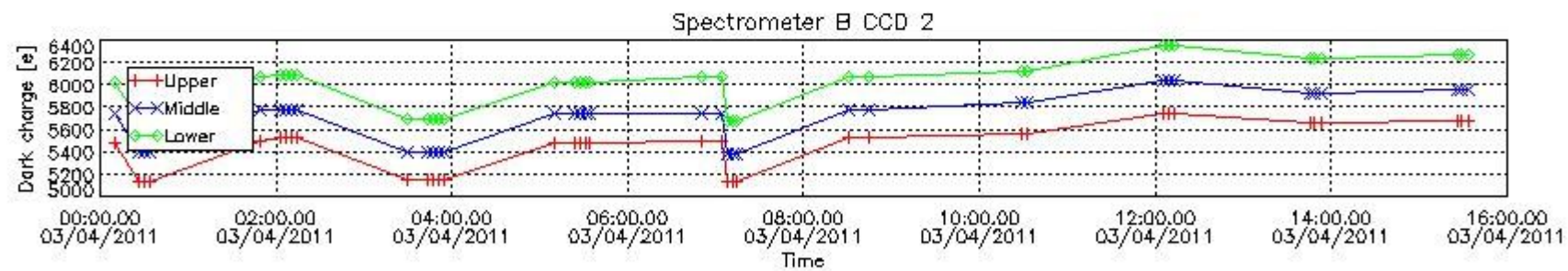
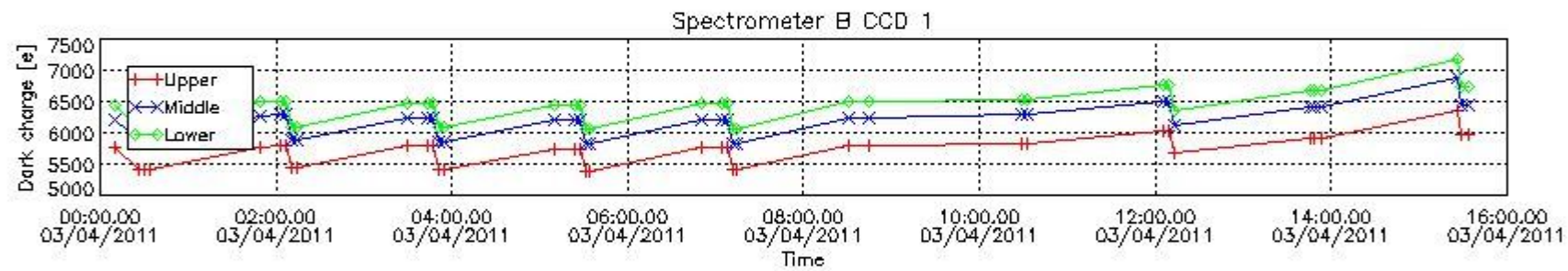
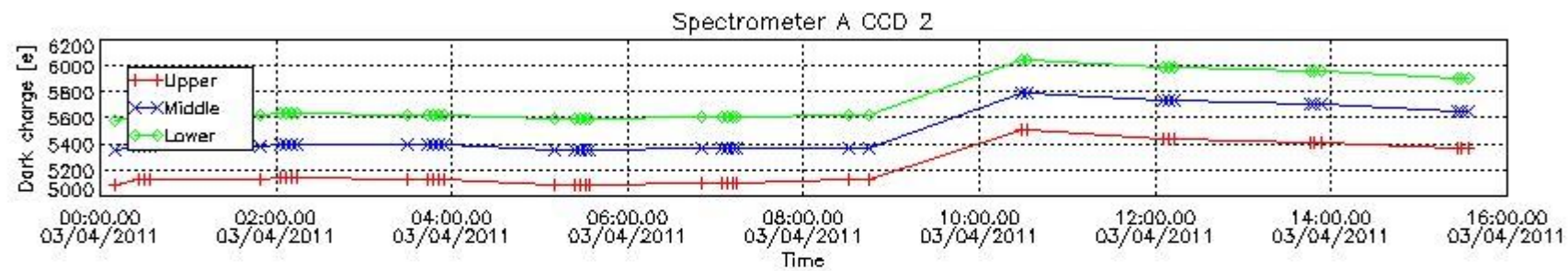
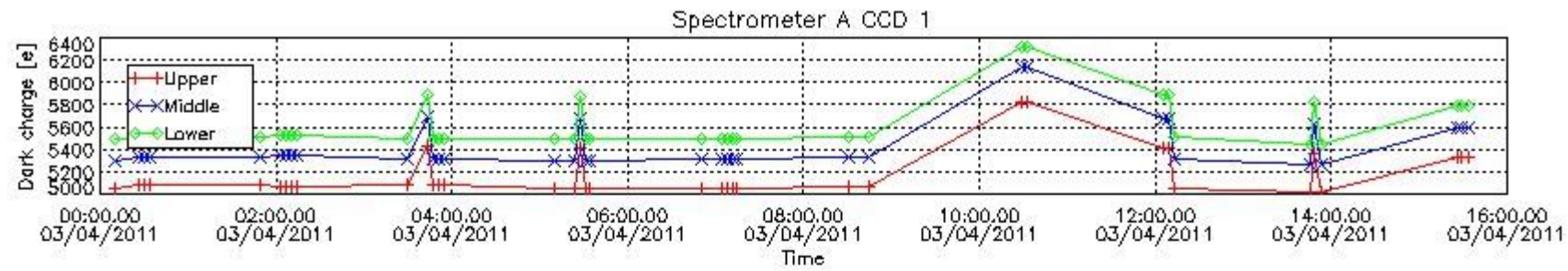
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDK20110403_102814_000000583101_00109_47537_9328.N1	DC map used
GOM_TRA_1PNPDK20110403_103227_000000593101_00109_47537_9329.N1	DC map used
GOM_TRA_1PNPDK20110403_104034_000000483101_00109_47537_9330.N1	DC map used
GOM_TRA_1PNPDK20110403_104211_000000483101_00109_47537_9331.N1	DC map used
GOM_TRA_1PNPDK20110403_104449_000000513101_00109_47537_9332.N1	DC map used
GOM_TRA_1PNPDK20110403_105036_000000473101_00109_47537_9333.N1	DC map used
GOM_TRA_1PNPDK20110403_105232_000000453101_00109_47537_9334.N1	DC map used

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





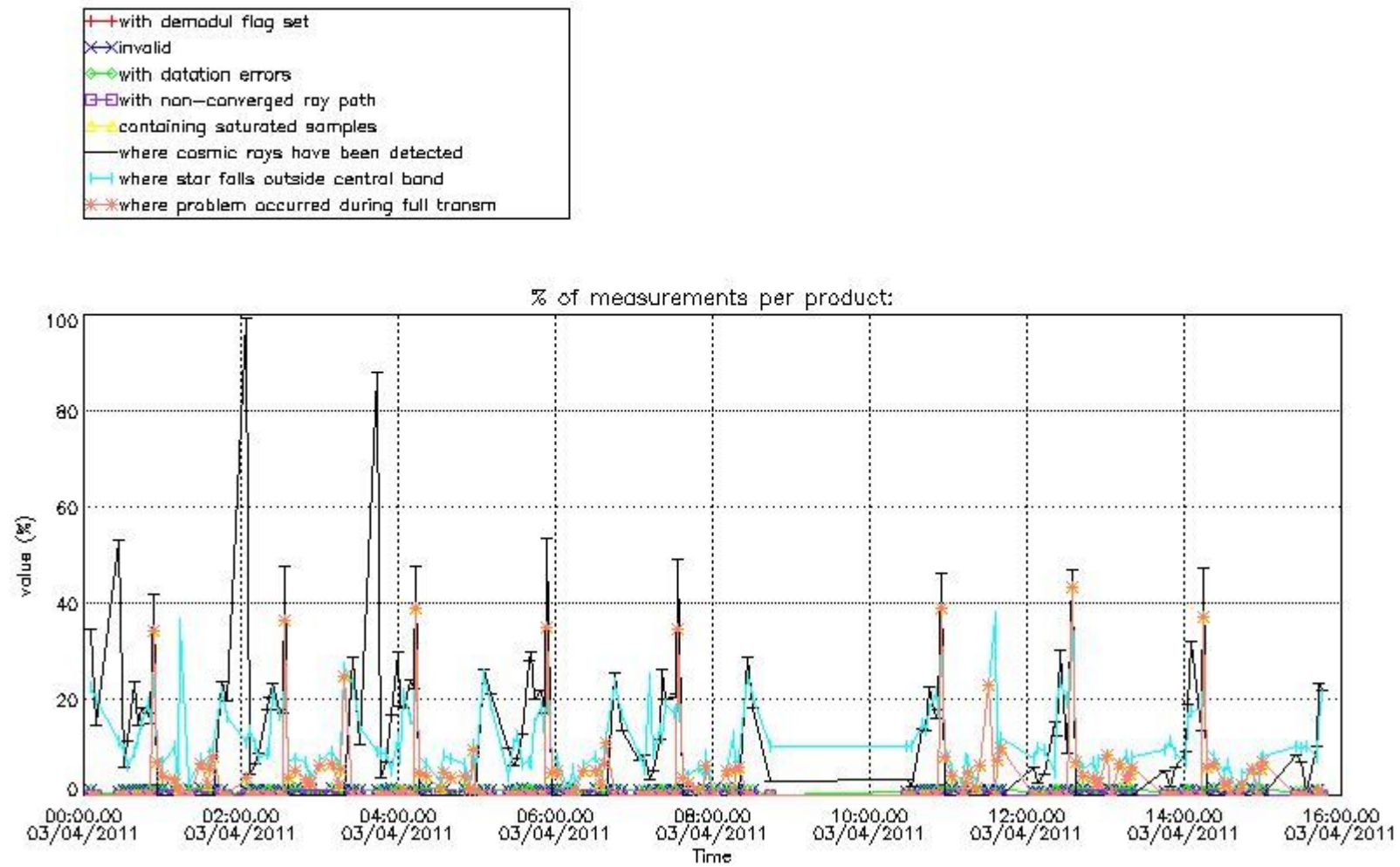
## 5. Demodulation flag and quality information monitoring

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:

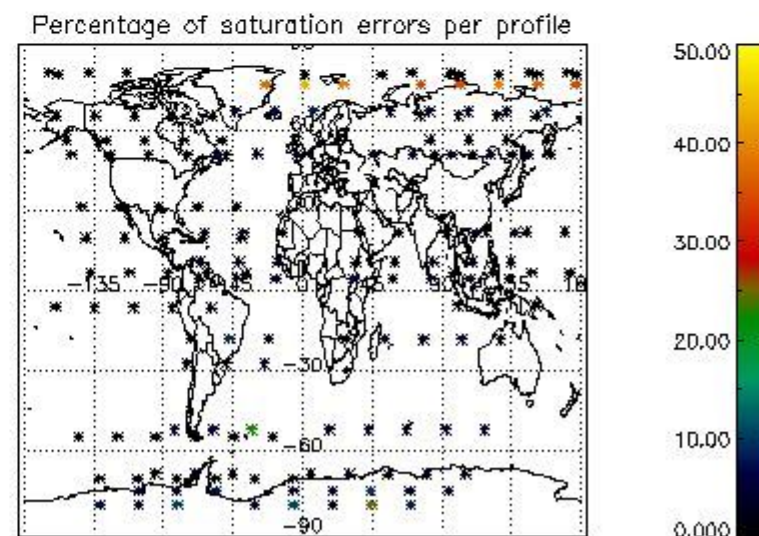
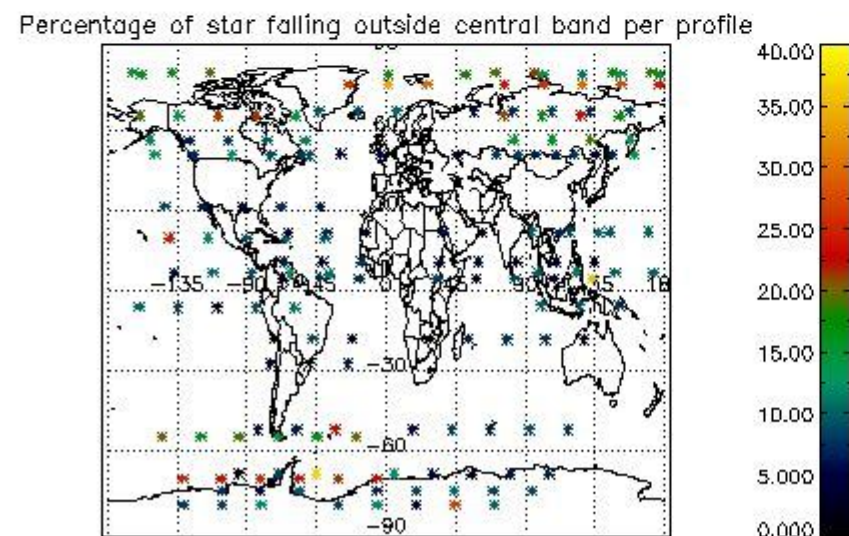
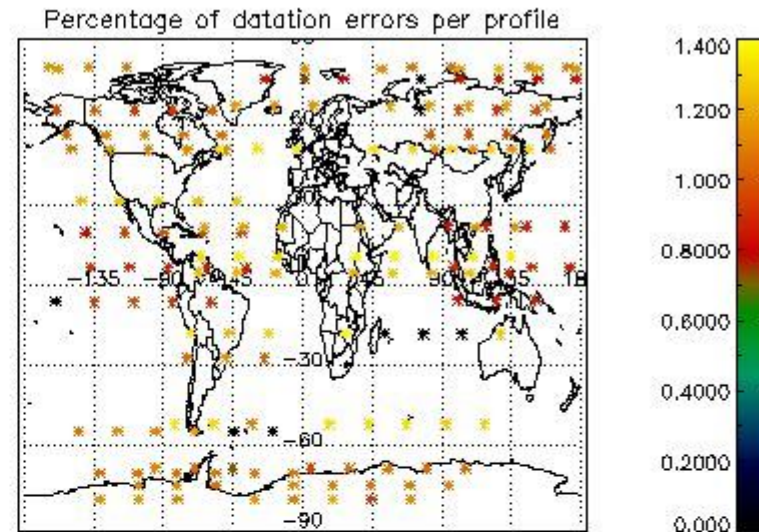
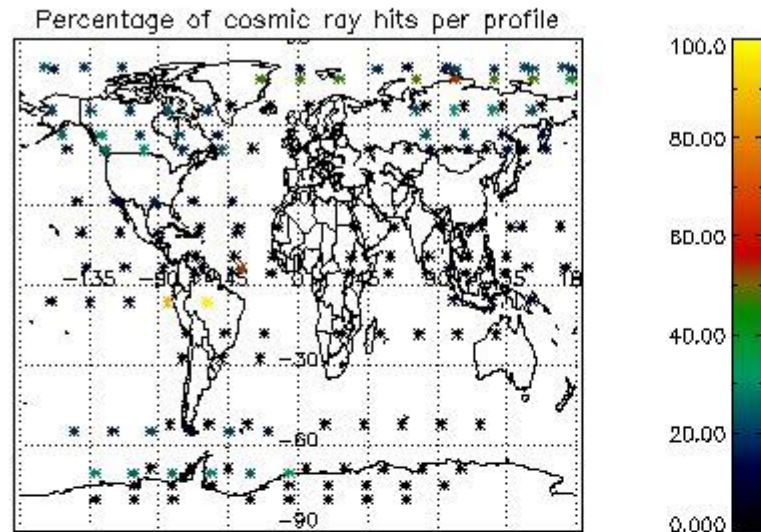
At least one measurement with demodulation flag set:	43.1034 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





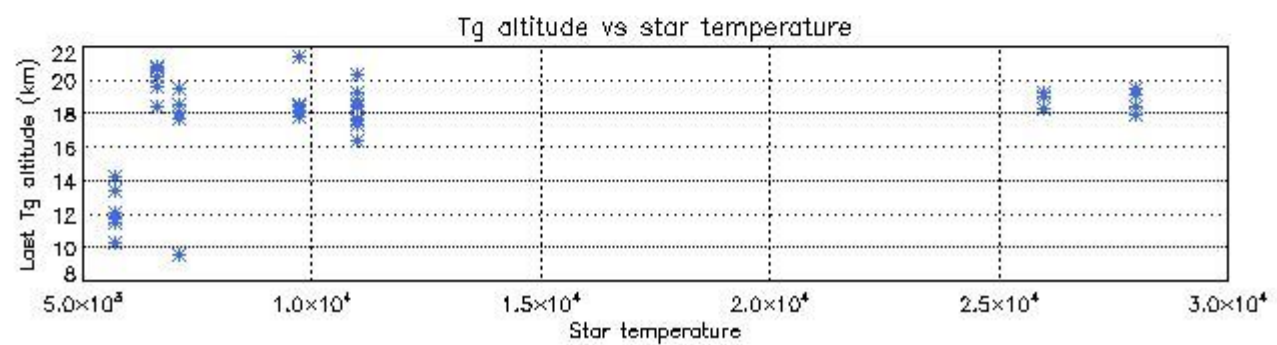
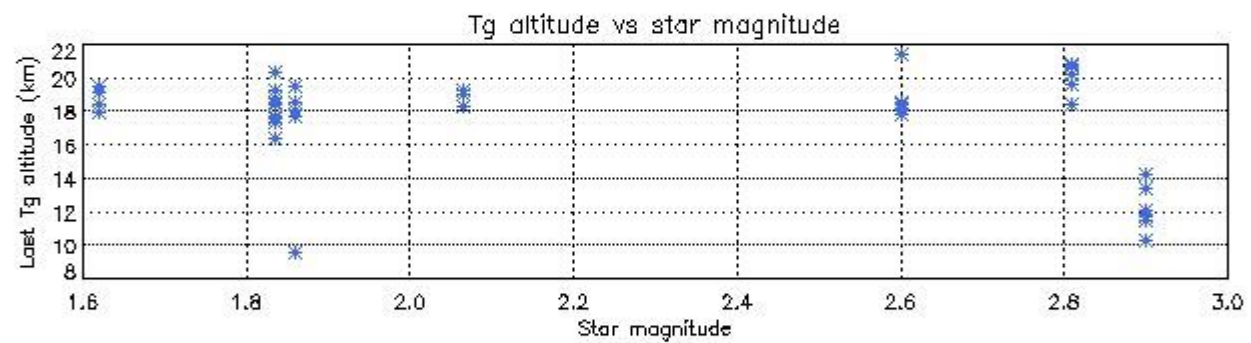
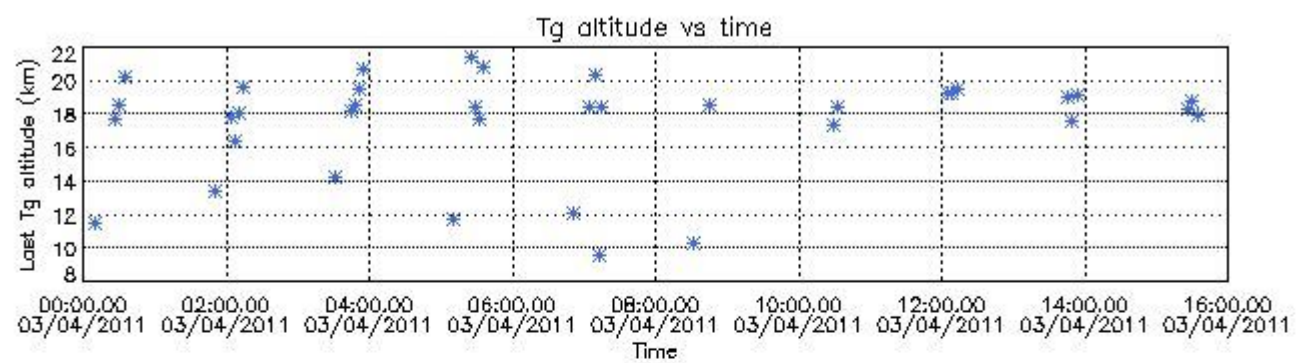
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.464	19.153	NaN
St. deviation:	3.0186	5.2252	NaN
Maximum:	21.437	29.814	NaN
Minimum:	9.4962	3.6945	NaN
Number of data:	37.000	90.000	NaN

### 6.2 Plot for DARK limb products

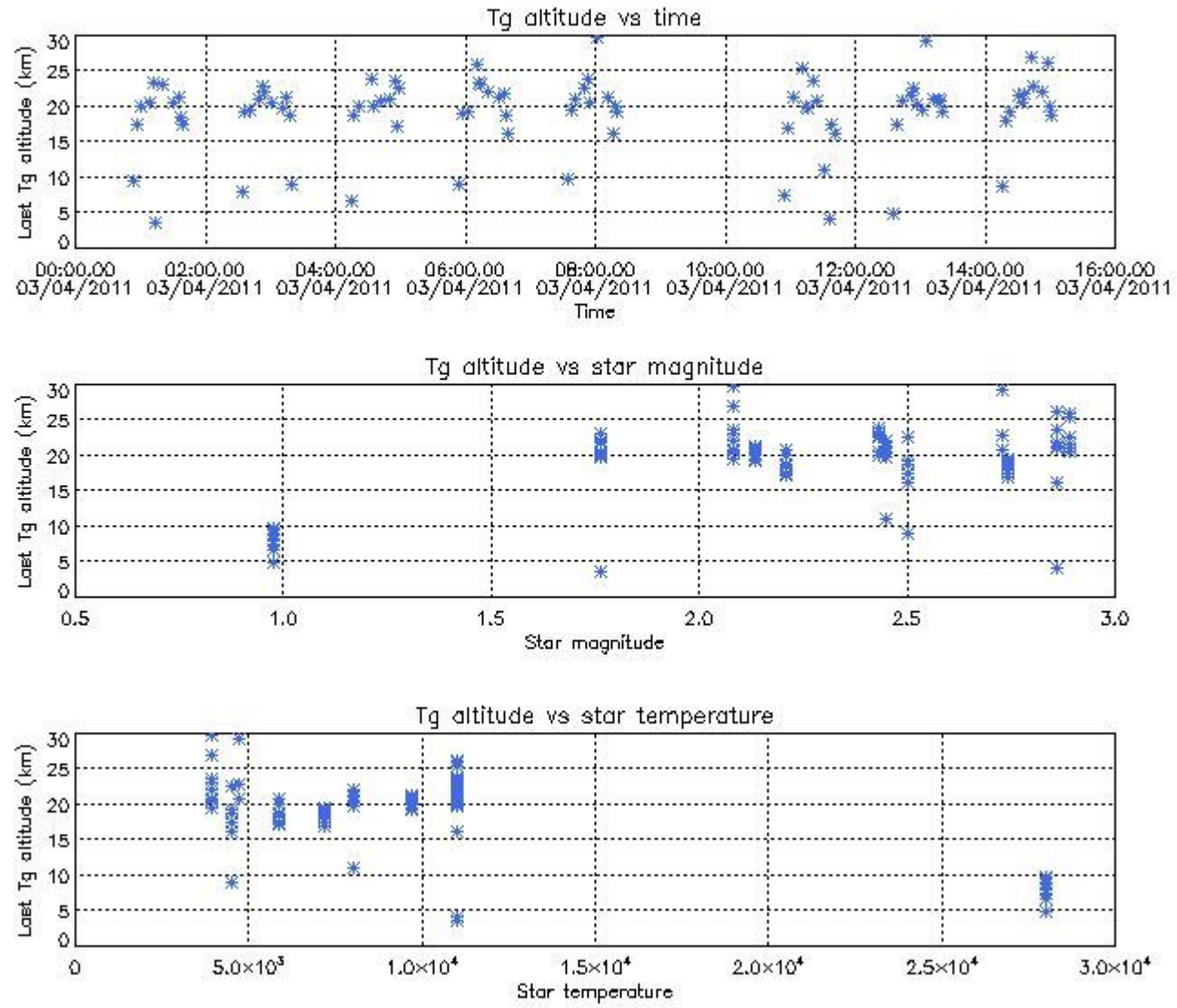
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

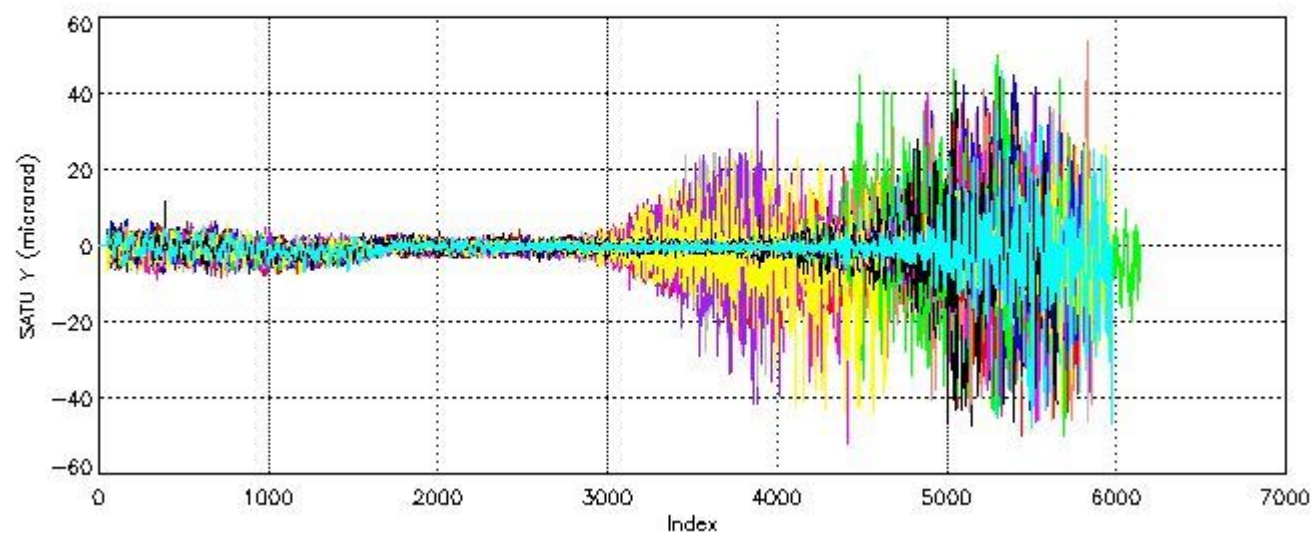
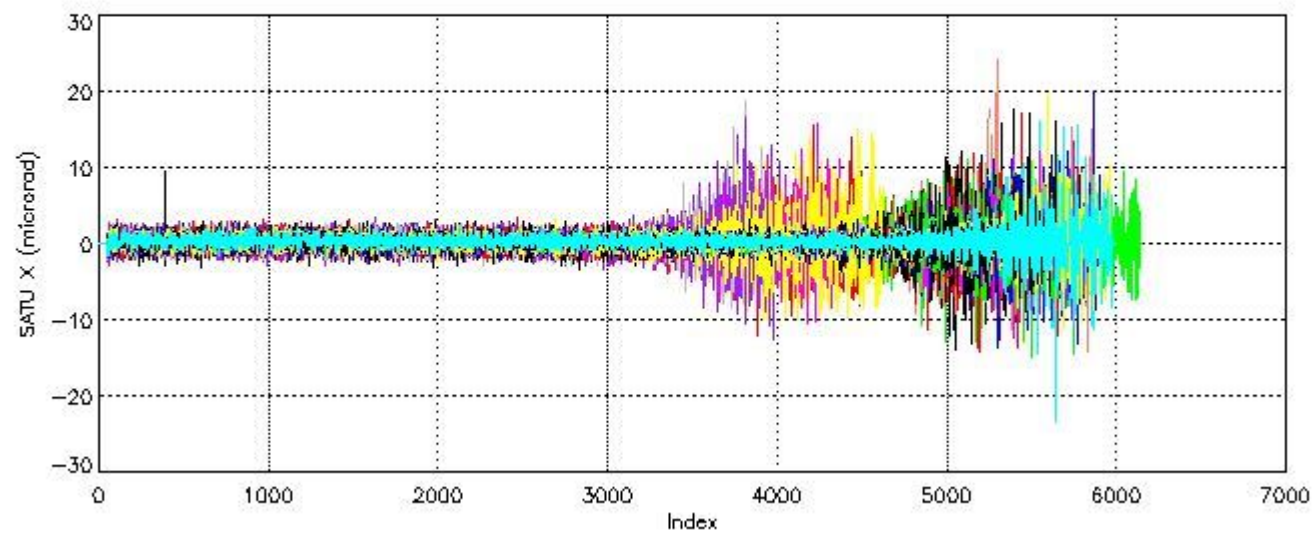


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.22393	-1.1115	0.23396	-1.3639
St. deviation:	0.63390	1.9356	0.81487	1.8174
Maximum:	9.4000	11.600	12.500	8.0000
Minimum:	-3.1000	-9.0000	-7.9000	-12.000

Number of data:	45400.	45400.	89200.	89200.
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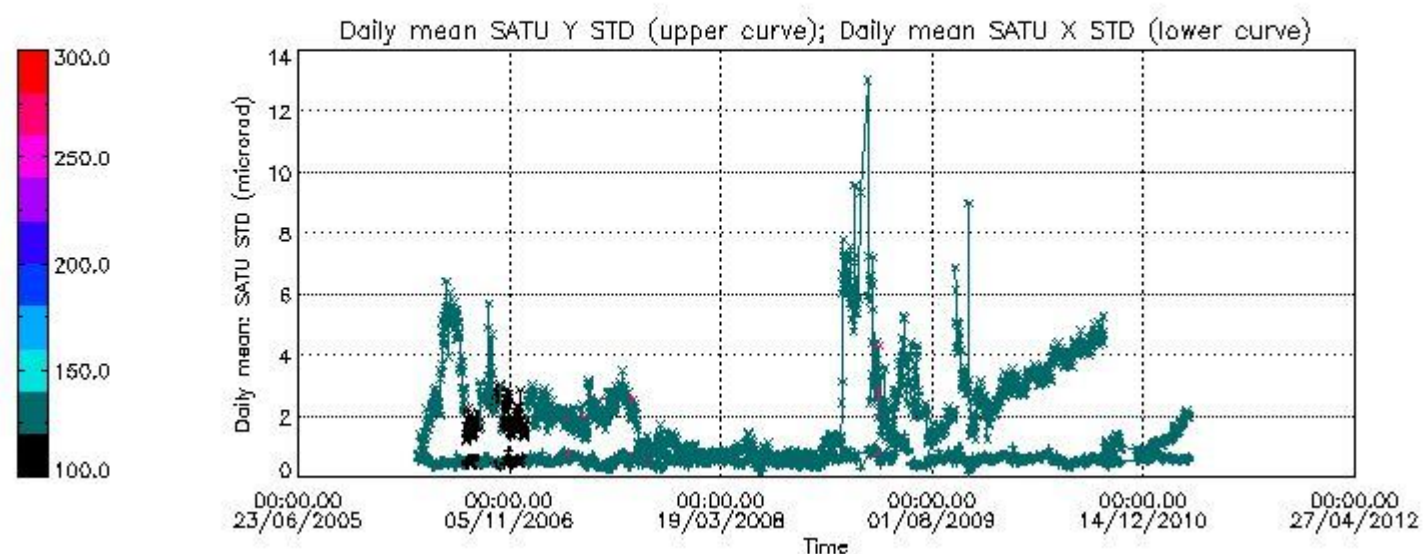
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

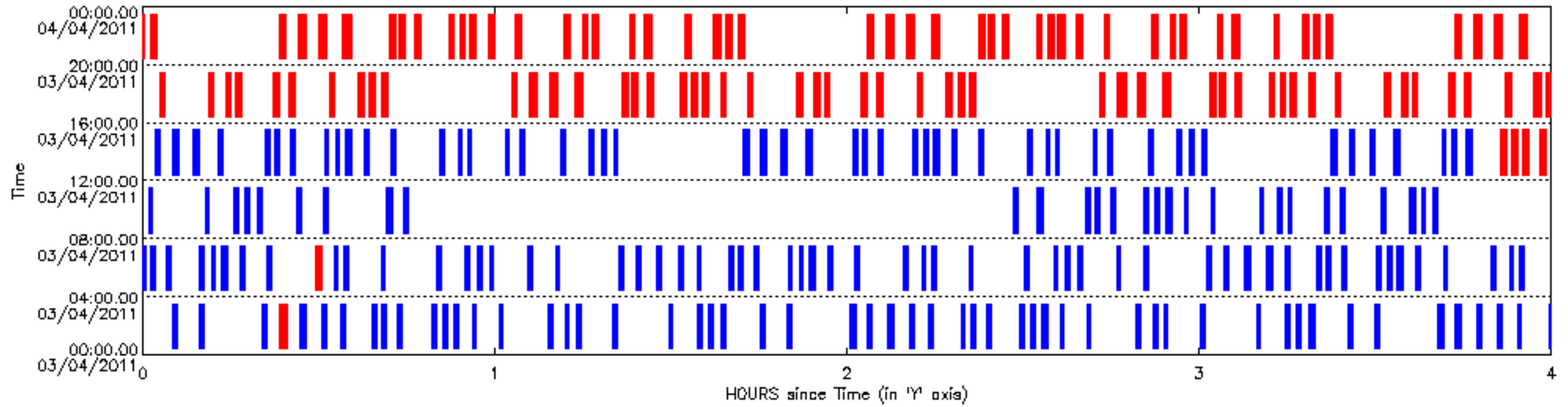
Lower curve: STD of SATU X axis



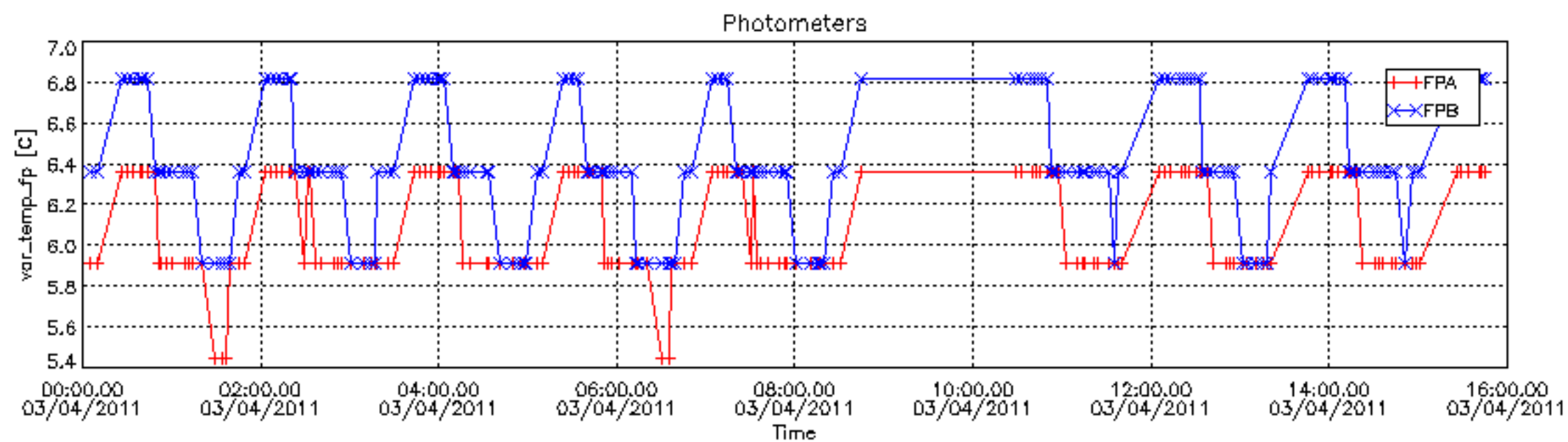
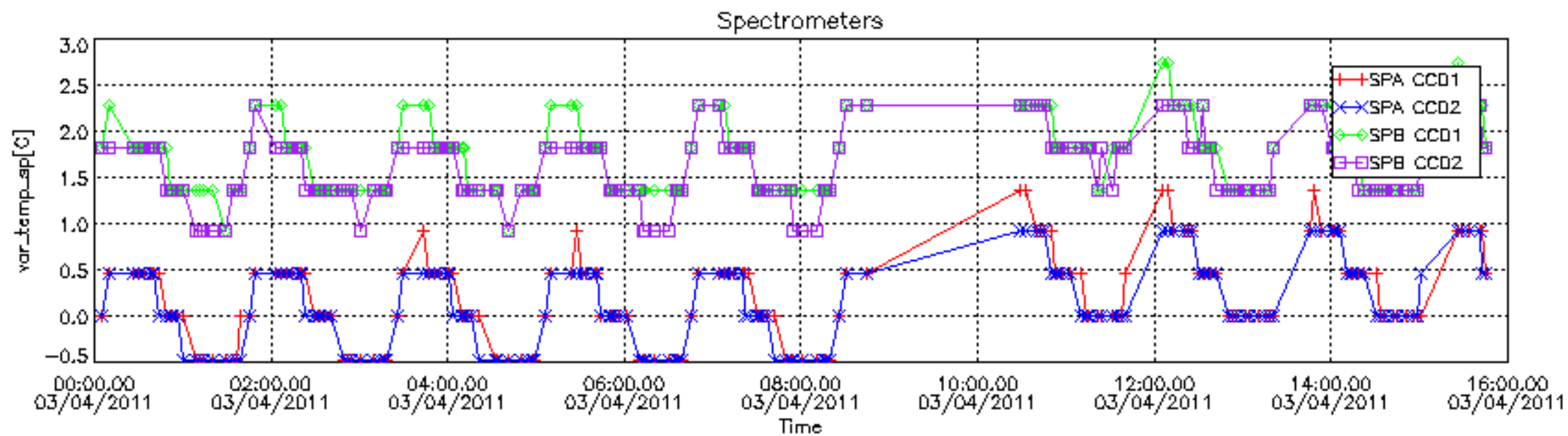
### 8. Auxiliary Data Files used for the production reported in section 2.4

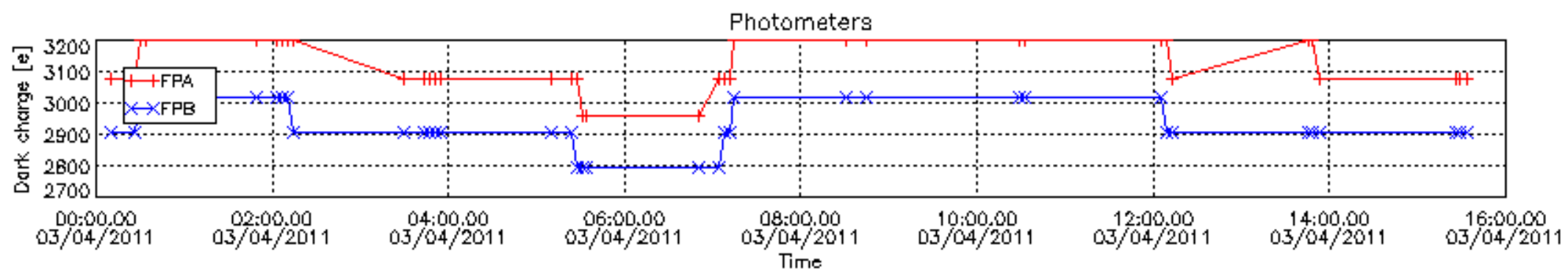
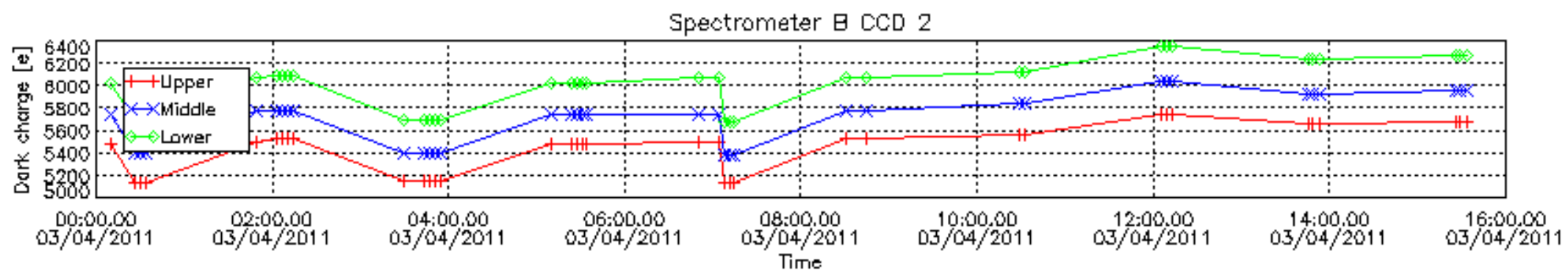
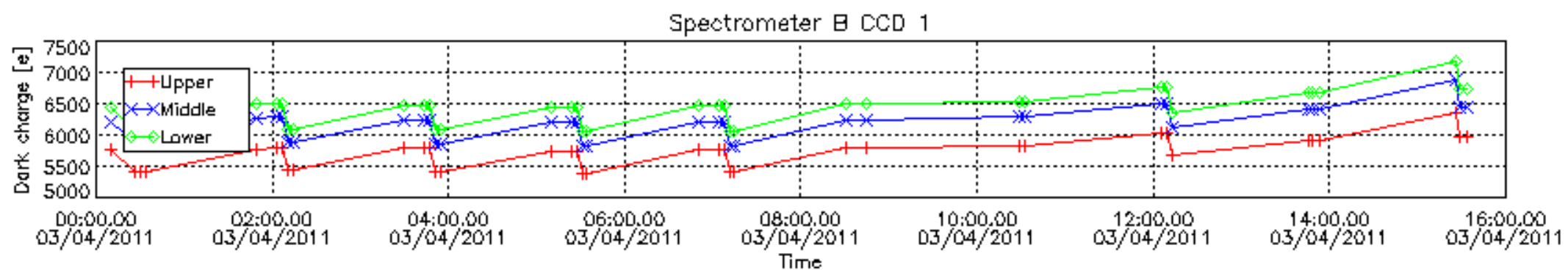
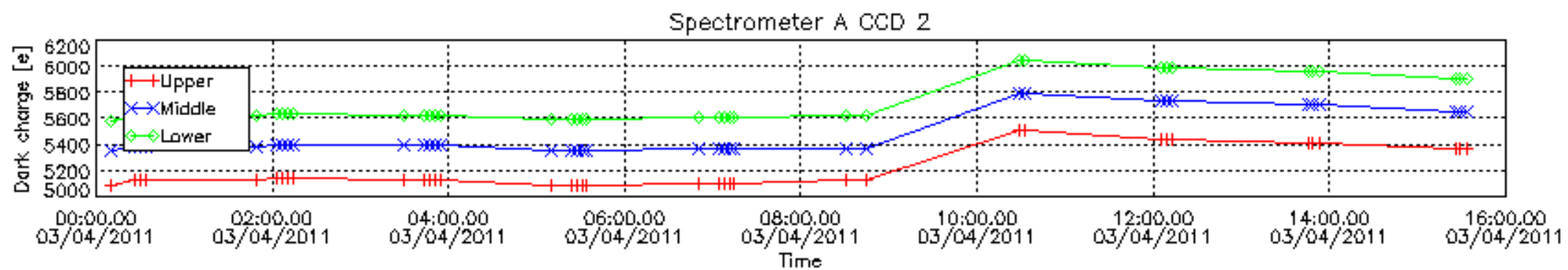
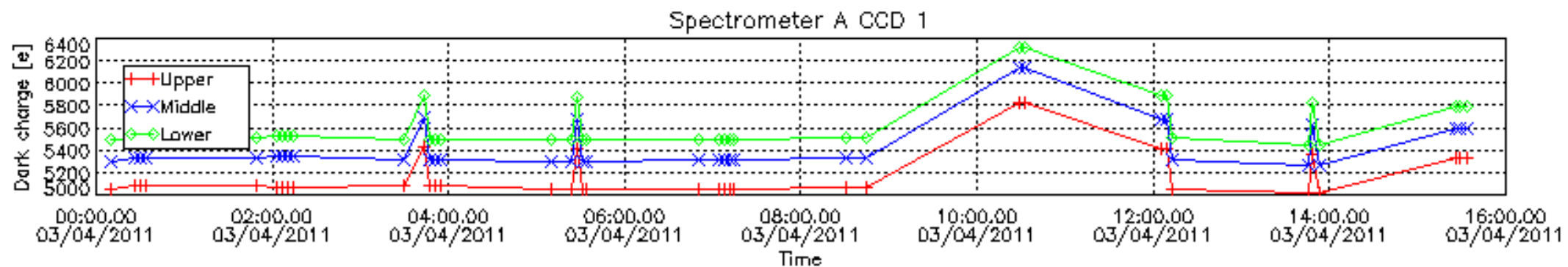
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

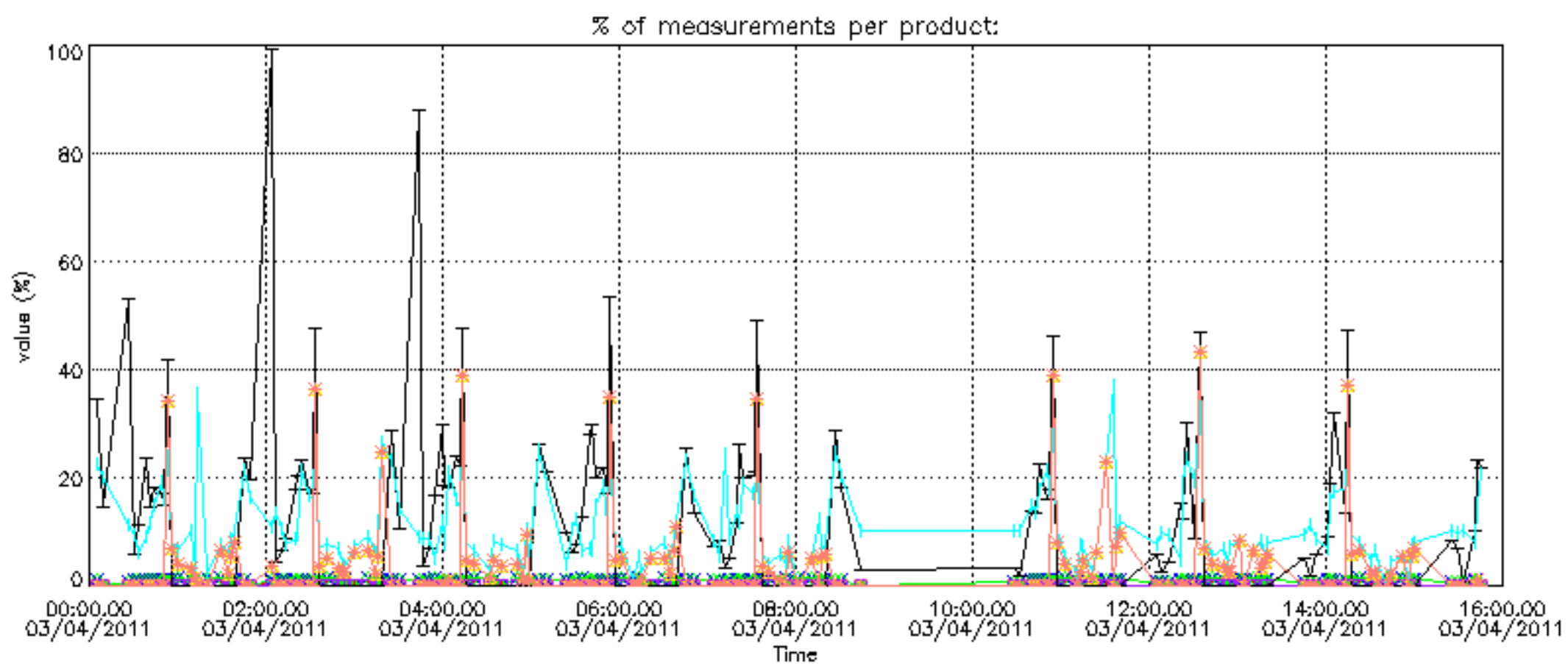
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-APR-2011 00:04:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110329_092027_20110328_000000_20500101_000000	1	03-APR-2011 00:04:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	03-APR-2011 00:04:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-APR-2011 00:04:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-APR-2011 00:04:55
ECMWF_FILE	AUX_ECF_AXNECM20110402_063707_20110402_210000_20110403_090000	1	03-APR-2011 00:04:55
ECMWF_FILE	AUX_ECF_AXNECM20110402_183852_20110403_030000_20110403_150000	40	03-APR-2011 03:09:48
ECMWF_FILE	AUX_ECF_AXNECM20110403_062114_20110403_090000_20110403_210000	112	03-APR-2011 10:28:14
OPTIONAL_ECMWF_FILE	MISSING	1	03-APR-2011 00:04:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110402_101705_20110401_182043_20110411_203431	1	03-APR-2011 00:04:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110403_000929_000057383101_00102_47530_2819.N1	3	03-APR-2011 00:26:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110403_015026_000038253101_00103_47531_2820.N1	24	03-APR-2011 02:03:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110403_025930_000060573101_00104_47532_2821.N1	40	03-APR-2011 03:09:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110403_044546_000057383101_00105_47533_2822.N1	61	03-APR-2011 04:50:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110403_062643_000035073101_00106_47534_4216.N1	83	03-APR-2011 06:30:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110403_073029_000057383101_00107_47535_4217.N1	99	03-APR-2011 07:36:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110403_091126_000057383101_00108_47536_4218.N1	112	03-APR-2011 10:28:14
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110403_102113_20110402_192413_20110412_213801	119	03-APR-2011 10:54:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110403_122801_000057383101_00110_47538_4220.N1	138	03-APR-2011 12:32:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110403_140858_000057383101_00111_47539_4221.N1	157	03-APR-2011 14:11:05



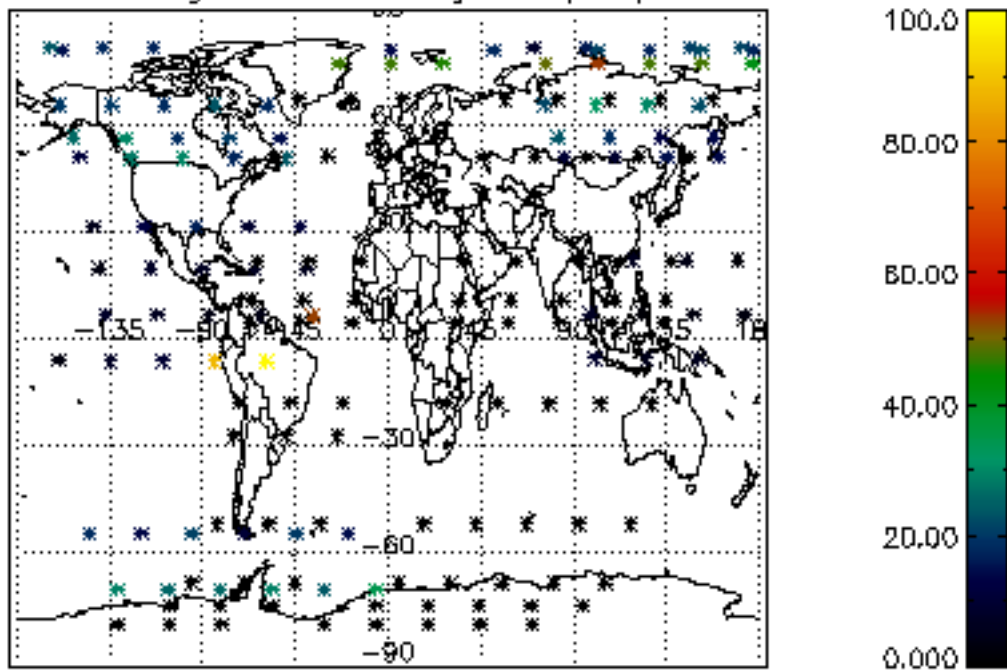




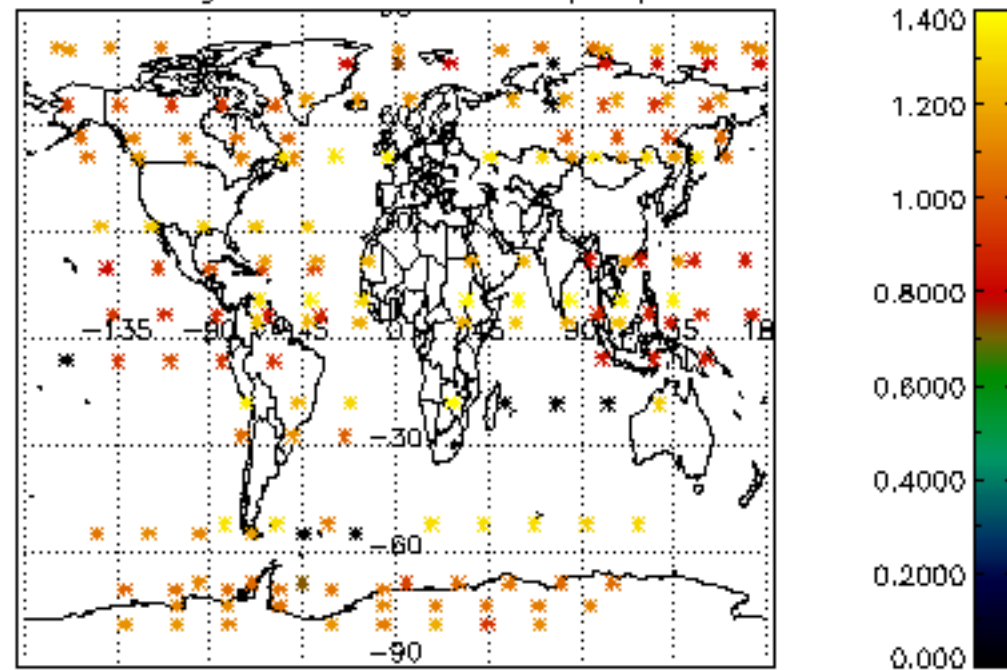




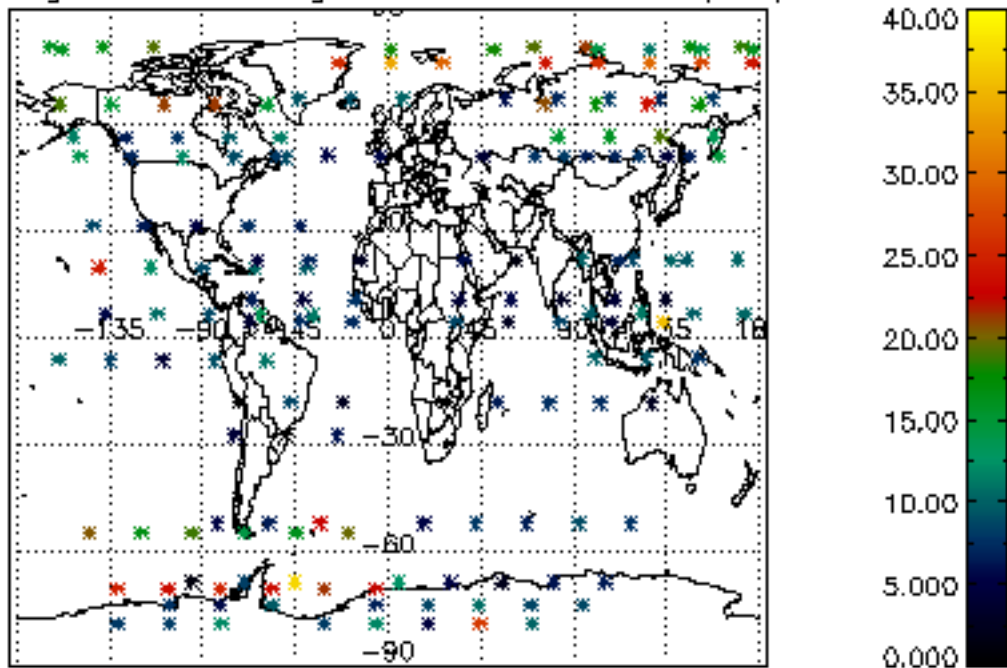
Percentage of cosmic ray hits per profile



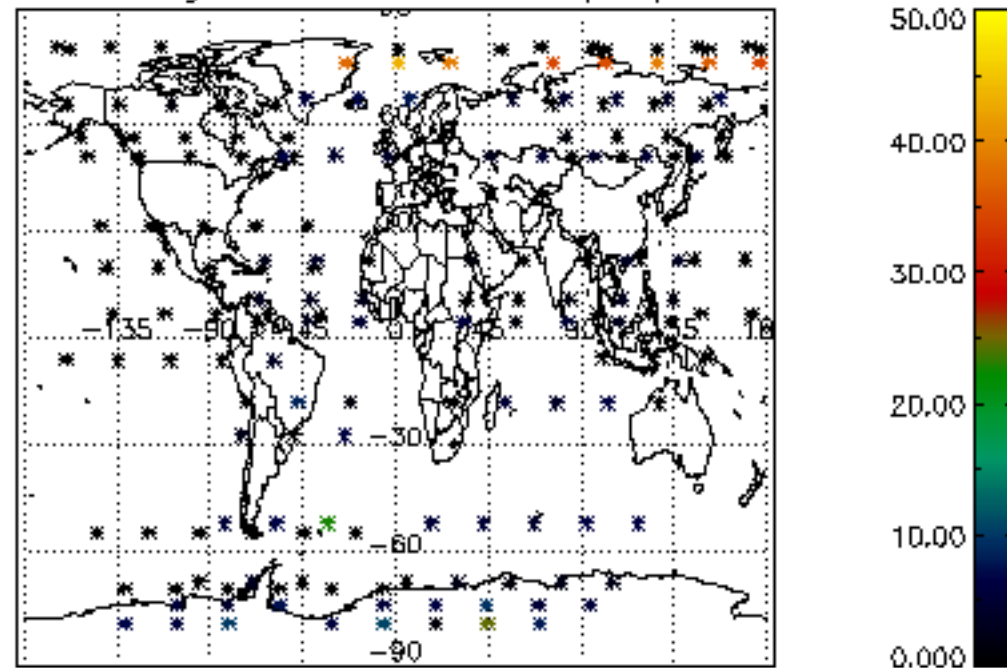
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

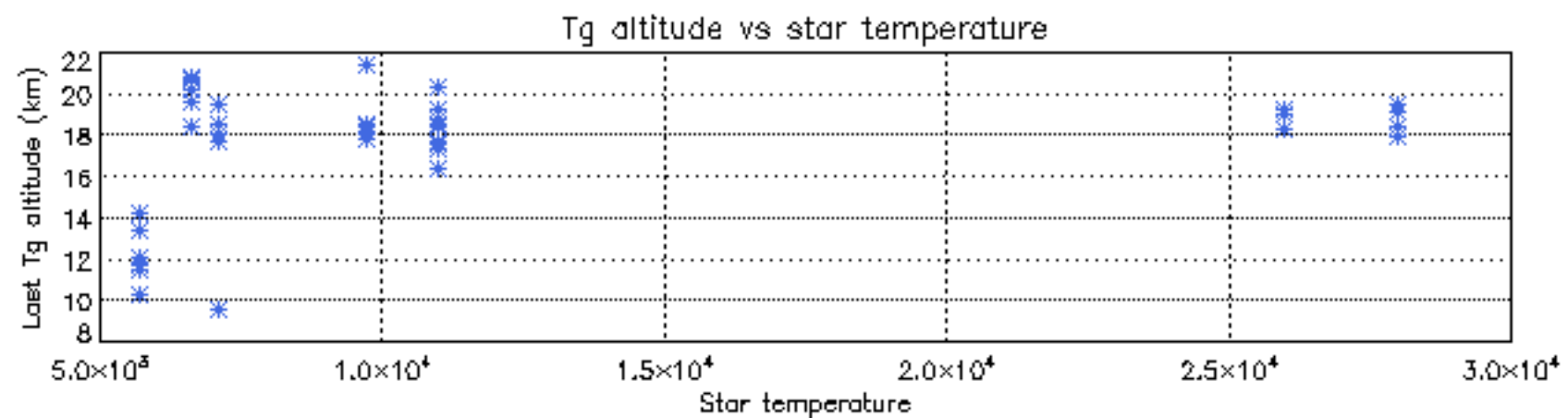
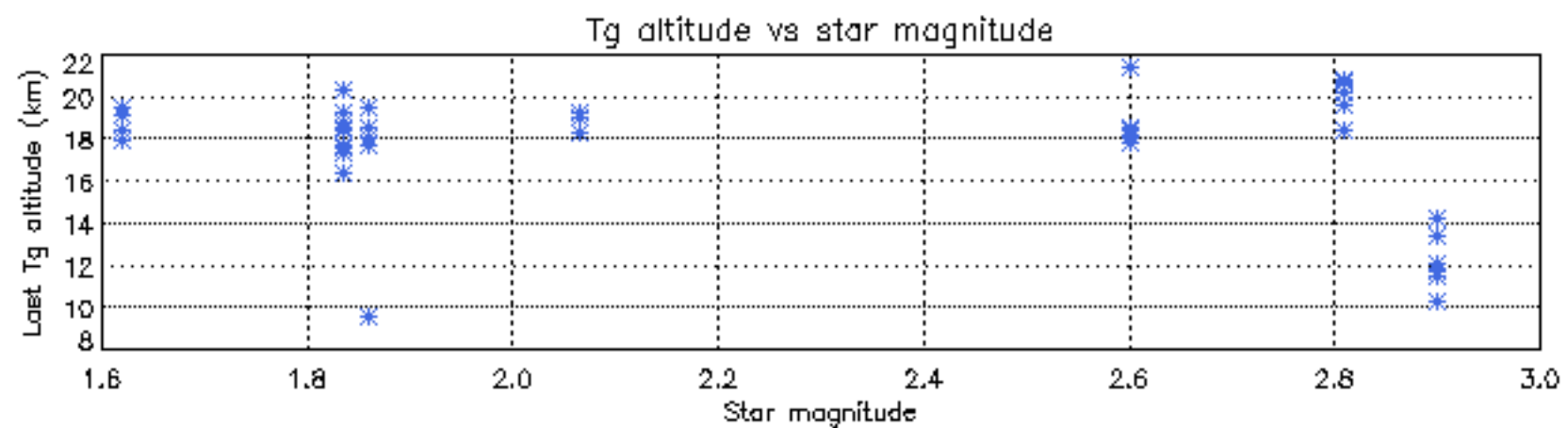
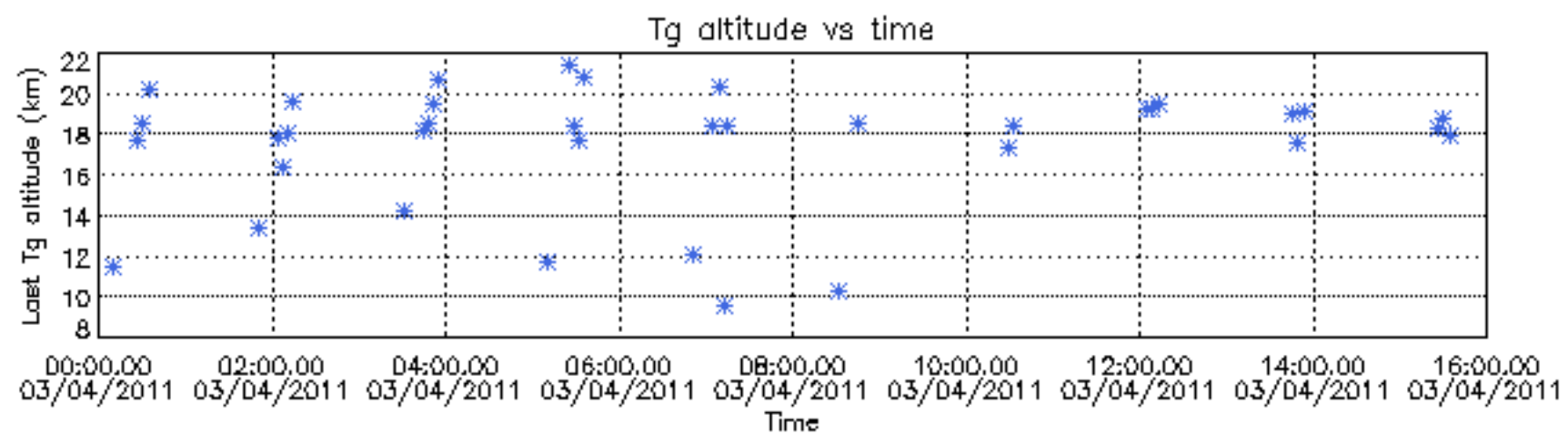


Percentage of saturation errors per profile

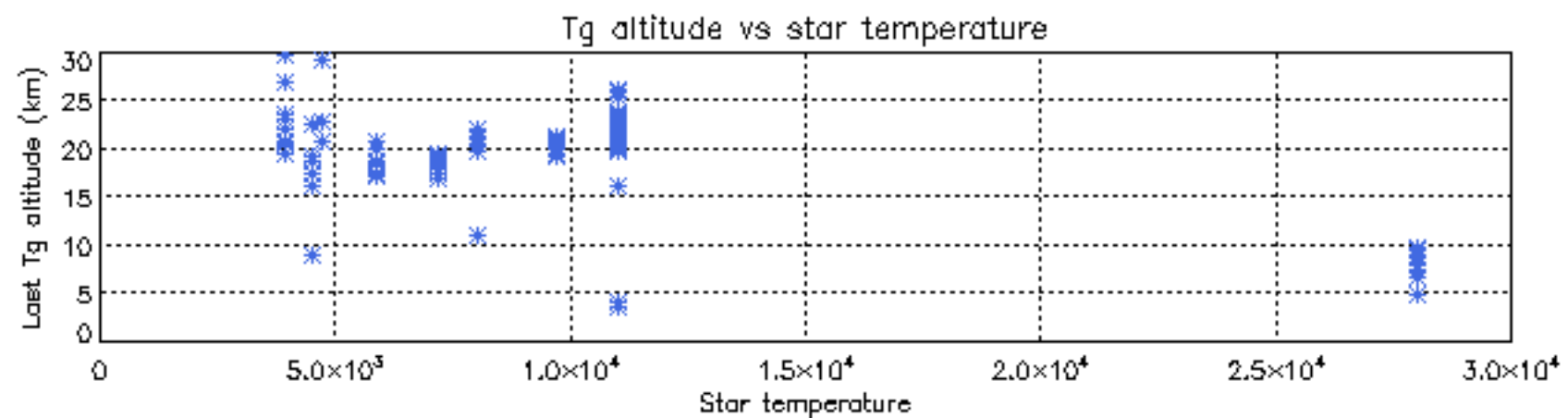
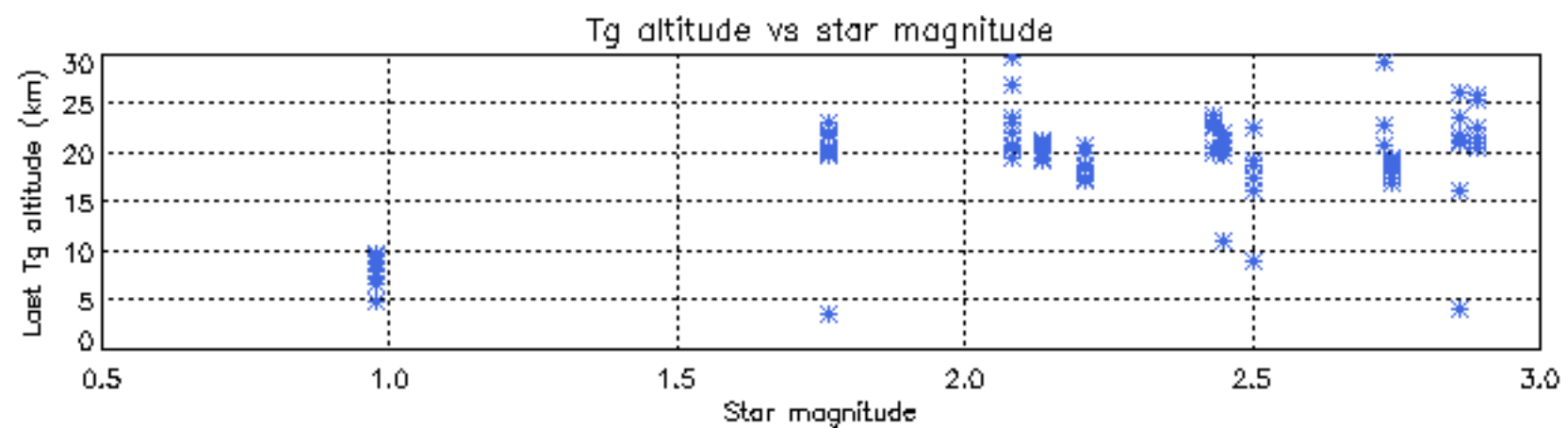
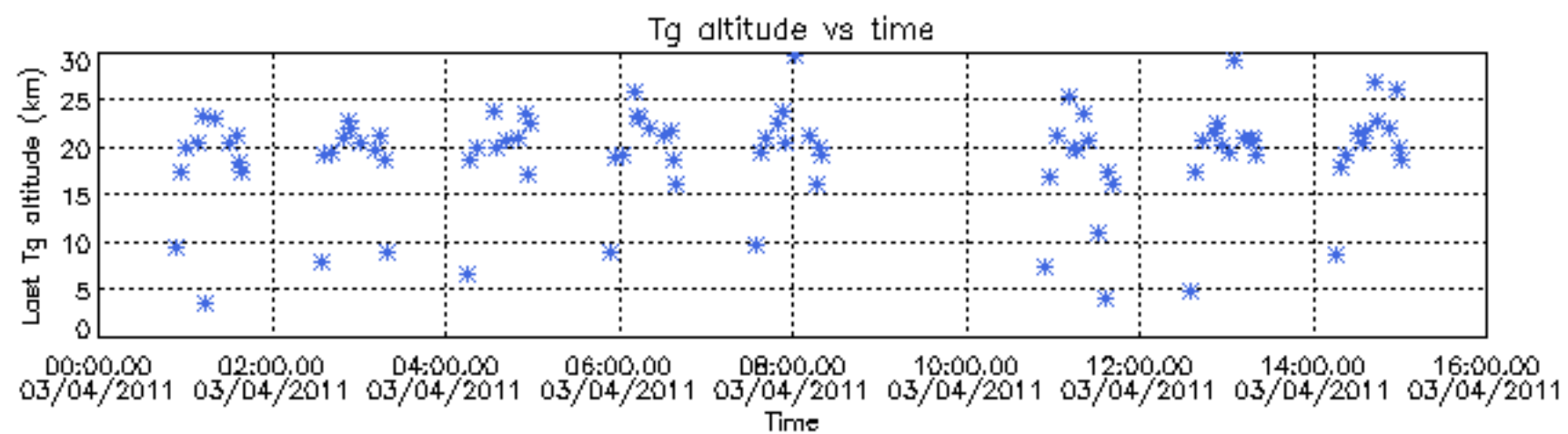


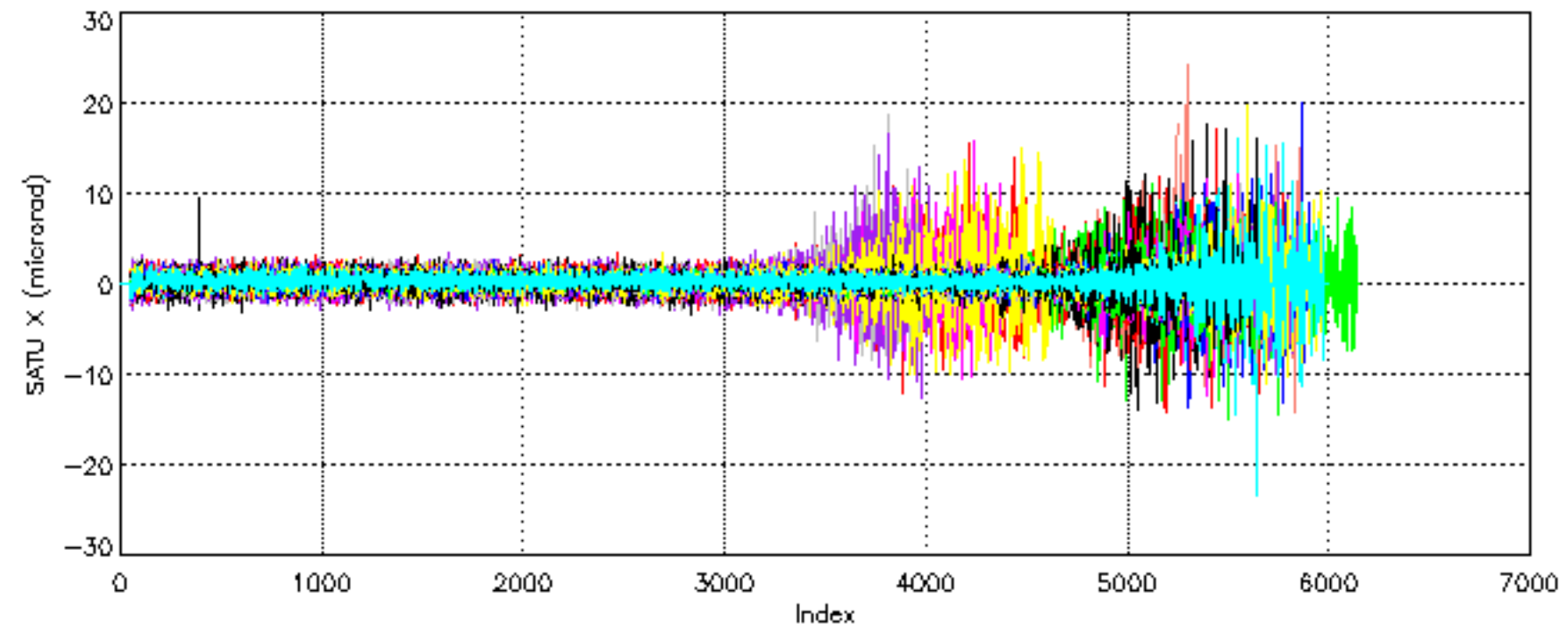


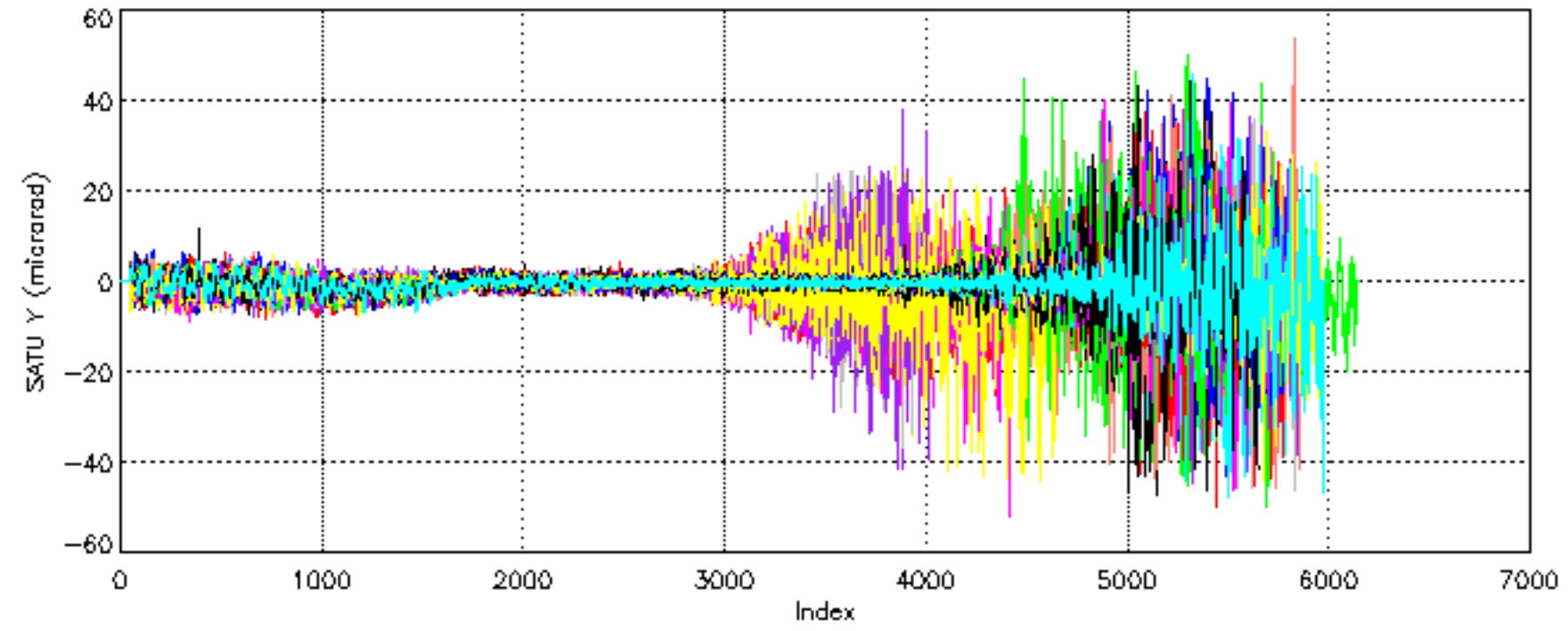
Tangent altitude at which the star is lost



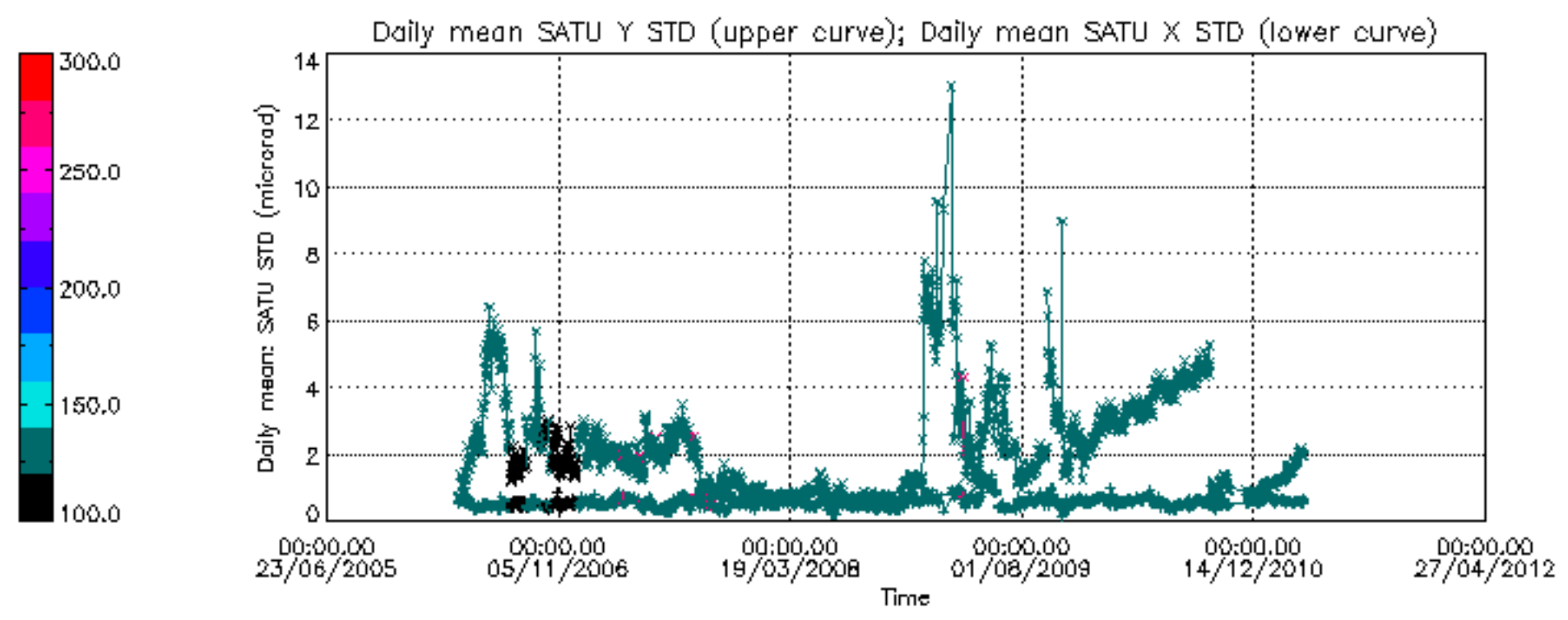
Tangent altitude at which the star is lost











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1; -306.9; 01-APR-2011 01:33:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;47502  
 2; -143.9; 01-APR-2011 01:35:59; Dark ; 52.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 104; 0;47502  
 3; 295.7; 01-APR-2011 01:43:19; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;47503  
 4; 512.8; 01-APR-2011 01:46:56; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;47503  
 5; 670.4; 01-APR-2011 01:49:33; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;47503  
 6; 835.1; 01-APR-2011 01:52:18; Dark ; 47.0; 78; Alp Lup ; 2.30; 28000;occ; 94; 0;47503  
 7; 930.9; 01-APR-2011 01:53:54; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;47503  
 8; 1093.7; 01-APR-2011 01:56:37; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;47503  
 9; 1450.9; 01-APR-2011 02:02:34; Dark ; 49.5; 106; 9Bet Crv ; 2.65; 5600;occ; 99; 0;47503  
 10; 1568.0; 01-APR-2011 02:04:31; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;47503  
 11; 1675.4; 01-APR-2011 02:06:18; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;47503  
 12; 1869.7; 01-APR-2011 02:09:33; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;47503  
 13; 2146.7; 01-APR-2011 02:14:10; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;47503  
 14; 2650.8; 01-APR-2011 02:22:34; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;47503  
 15; 2830.6; 01-APR-2011 02:25:34; Bright; 51.0; 87; 64Gam UMa ; 2.43; 11000;occ; 102; 0;47503  
 16; 2941.2; 01-APR-2011 02:27:24; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;47503  
 17; 3317.4; 01-APR-2011 02:33:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;47503  
 18; 3882.0; 01-APR-2011 02:43:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;47503  
 19; 4176.1; 01-APR-2011 02:47:59; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;47503  
 20; 4290.9; 01-APR-2011 02:49:54; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;47503  
 21; 4413.0; 01-APR-2011 02:51:56; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;47503  
 22; 5708.0; 01-APR-2011 03:13:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;47503  
 23; 5871.4; 01-APR-2011 03:16:14; Dark ; 52.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 104; 0;47503  
 24; 6085.2; 01-APR-2011 03:19:48; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;47504  
 25; 6310.8; 01-APR-2011 03:23:34; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 0;47504  
 26; 6527.3; 01-APR-2011 03:27:10; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;47504  
 27; 6685.0; 01-APR-2011 03:29:48; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;47504  
 28; 6850.1; 01-APR-2011 03:32:33; Dark ; 49.5; 78; Alp Lup ; 2.30; 28000;occ; 99; 0;47504  
 29; 6945.5; 01-APR-2011 03:34:08; Dark ; 50.5; 81; Eta Cen ; 2.36; 28000;occ; 101; 0;47504  
 30; 7108.1; 01-APR-2011 03:36:51; Dark ; 57.0; 54; 5The Cen ; 2.06; 4500;occ; 114; 0;47504  
 31; 7465.3; 01-APR-2011 03:42:48; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;47504  
 32; 7582.4; 01-APR-2011 03:44:45; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;47504  
 33; 7689.7; 01-APR-2011 03:46:33; Dark ; 60.0; 15; 67Alp Vir ; 0.98; 28000;occ; 120; 0;47504  
 34; 7883.8; 01-APR-2011 03:49:47; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;47504  
 35; 8160.7; 01-APR-2011 03:54:24; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;47504  
 36; 8664.8; 01-APR-2011 04:02:48; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;47504  
 37; 8844.5; 01-APR-2011 04:05:47; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;47504  
 38; 8953.2; 01-APR-2011 04:07:36; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;47504  
 39; 9331.2; 01-APR-2011 04:13:54; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;47504

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110401\_042319\_000054893101\_00076\_47504\_2572.N1

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23; 4827.0; 05-APR-2011 23:55:09; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;47573  
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6; 2143.0; 05-APR-2011 14:49:15; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;47568  
7; 2624.7; 05-APR-2011 14:57:17; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 0;47568  
8; 2818.3; 05-APR-2011 15:00:30; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;47568  
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4; 1675.6; 05-APR-2011 16:21:42; Dark ; 66.0; 15; 67Alp Vir ; 0.98; 28000;occ; 132; 0;47569  
5; 1864.6; 05-APR-2011 16:24:51; Bright; 40.5; 121; 29Gam Vir ; 2.74; 7200;occ; 81; 0;47569  
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8; 2818.1; 05-APR-2011 16:40:44; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;47569  
9; 2913.3; 05-APR-2011 16:42:19; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;47569  
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14; 4289.3; 05-APR-2011 17:05:15; Bright; 45.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 90; 0;47569  
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17; 5108.2; 05-APR-2011 17:18:54; Dark ; 45.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 90; 0;47569  
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21; 6427.3; 05-APR-2011 17:40:53; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;47570  
22; 6889.0; 05-APR-2011 17:48:35; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;47570  
23; 6985.2; 05-APR-2011 17:50:11; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;47570

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5; 1675.6; 05-APR-2011 18:01:56; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;47570  
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9; 2817.9; 05-APR-2011 18:20:58; Bright; 42.5; 87; 64Gam UMa ; 2.43; 11000;occ; 85; 0;47570  
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13; 3876.7; 05-APR-2011 18:38:37; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;47570  
14; 4163.8; 05-APR-2011 18:43:24; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;47570  
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5; 1589.0; 05-APR-2011 19:40:43; Dark ; 43.0; 163; 7Del Crv ; 2.94; 11000;occ; 86; 0;47571  
6; 1675.7; 05-APR-2011 19:42:10; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;47571  
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8; 2119.0; 05-APR-2011 19:49:33; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;47571  
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7;	3241.3;	18-APR-2011	17:11:24;	Bright;	;	41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	0;	47756
8;	3849.7;	18-APR-2011	17:21:32;	Bright;	;	40.0;	89;	5Alp Cep	;	2.45;	8000;occ;	80;	0;	47756
9;	4105.6;	18-APR-2011	17:25:48;	Bright;	;	48.0;	144;	18Del Cyg	;	2.86;	11000;occ;	96;	0;	47756
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11;	4435.4;	18-APR-2011	17:31:18;	Dark	;	64.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	128;	0;	47756
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15;	5354.7;	18-APR-2011	17:46:37;	Dark	;	46.0;	142;	49Del Cap	;	2.85;	8900;occ;	92;	0;	47756
16;	5968.1;	18-APR-2011	17:56:51;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	47756
17;	6245.2;	18-APR-2011	18:01:28;	Dark	;	68.5;	103;	38Zet Sgr	;	2.60;	9700;occ;	137;	0;	47757
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19;	6576.4;	18-APR-2011	18:06:59;	Dark	;	58.0;	178;	Iot1Sco	;	3.02;	6550;occ;	116;	0;	47757
20;	6672.5;	18-APR-2011	18:08:35;	Dark	;	61.0;	25;	35Lam Sco	;	1.62;	28000;occ;	122;	0;	47757
21;	6898.7;	18-APR-2011	18:12:21;	Dark	;	70.0;	75;	26Eps Sco	;	2.29;	4250;occ;	140;	0;	47757
22;	7022.2;	18-APR-2011	18:14:25;	Dark	;	42.5;	109;	Bet Lup	;	2.68;	26000;occ;	85;	0;	47757

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2;	1561.1;	18-APR-2011	18:23:38;	Dark	;	61.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	123;	0;	47757
3;	2267.1;	18-APR-2011	18:35:24;	Bright;	;	45.0;	111;	8Eta Boo	;	2.68;	6000;occ;	90;	0;	47757
4;	2560.6;	18-APR-2011	18:40:17;	Bright;	;	55.5;	83;		;	2.38;	11000;occ;	111;	0;	47757
5;	2721.8;	18-APR-2011	18:42:59;	Bright;	;	45.0;	180;	27Gam Boo	;	3.04;	8000;occ;	90;	0;	47757
6;	2870.2;	18-APR-2011	18:45:27;	Bright;	;	38.0;	55;	79Zet UMa	;	2.06;	10200;occ;	76;	0;	47757
7;	3241.0;	18-APR-2011	18:51:38;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	47757
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9;	4105.1;	18-APR-2011	19:06:02;	Bright;	;	48.0;	144;	18Del Cyg	;	2.86;	11000;occ;	96;	0;	47757
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13;	5048.0;	18-APR-2011	19:21:45;	Dark	;	46.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	93;	0;	47757
14;	5215.8;	18-APR-2011	19:24:33;	Dark	;	50.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	101;	0;	47757
15;	5355.5;	18-APR-2011	19:26:52;	Dark	;	44.5;	142;	49Del Cap	;	2.85;	8900;occ;	89;	0;	47757
16;	5969.3;	18-APR-2011	19:37:06;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	47757
17;	6246.9;	18-APR-2011	19:41:44;	Dark	;	64.0;	103;	38Zet Sgr	;	2.60;	9700;occ;	128;	0;	47758
18;	6451.9;	18-APR-2011	19:45:09;	Dark	;	65.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	131;	0;	47758
19;	6577.6;	18-APR-2011	19:47:14;	Dark	;	55.5;	178;	Iot1Sco	;	3.02;	6550;occ;	111;	0;	47758
20;	6673.8;	18-APR-2011	19:48:51;	Dark	;	62.5;	25;	35Lam Sco	;	1.62;	28000;occ;	125;	0;	47758
21;	6899.8;	18-APR-2011	19:52:37;	Dark	;	67.5;	75;	26Eps Sco	;	2.29;	4250;occ;	135;	0;	47758



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 6; 663.3; 19-APR-2011 00:49:36; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;47761  
 7; 888.7; 19-APR-2011 00:53:21; Dark ; 68.0; 75; 26Eps Sco ; 2.29; 4250;occ; 136; 0;47761  
 8; 1010.0; 19-APR-2011 00:55:23; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;47761  
 9; 1232.9; 19-APR-2011 00:59:06; Dark ; 65.0; 158; 6Pi Sco ; 2.91; 28000;occ; 130; 0;47761  
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 12; 2556.7; 19-APR-2011 01:21:09; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;47761  
 13; 2718.4; 19-APR-2011 01:23:51; Bright; 47.5; 180; 27Gam Boo ; 3.04; 8000;occ; 95; 0;47761  
 14; 2869.0; 19-APR-2011 01:26:22; Bright; 39.0; 55; 79Zet UMA ; 2.06; 10200;occ; 78; 0;47761  
 15; 3243.1; 19-APR-2011 01:32:36; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;47761  
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 6; 664.6; 19-APR-2011 02:29:51; Dark ; 61.5; 25; 35Lam Sco ; 1.62; 28000;occ; 123; 0;47762  
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 9; 1233.3; 19-APR-2011 02:39:20; Dark ; 62.5; 158; 6Pi Sco ; 2.91; 28000;occ; 125; 0;47762  
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 13; 2717.9; 19-APR-2011 03:04:05; Bright; 48.5; 180; 27Gam Boo ; 3.04; 8000;occ; 97; 0;47762  
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4; 2868.0; 19-APR-2011 08:07:17; Bright; 38.5; 55; 79Zet UMa ; 2.06; 10200;occ; 77; 0;47765
5; 3297.6; 19-APR-2011 08:14:26; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;47765
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17; 6463.8; 19-APR-2011 09:07:13; Dark ; 79.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 159; 0;47766
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5; 3296.6; 19-APR-2011 09:54:39; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;47766
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