

GOMOS Daily Report 07-SEP-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	10SEP2009 04:44:37
Data source version	GOMOS/5.00
Start time of products	07SEP2009 00:08:19
Stop time of products	07SEP2009 23:53:13
Store outputs in DB	Yes
Nb of level 1b prods	91
Nb of prods with errors	0

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

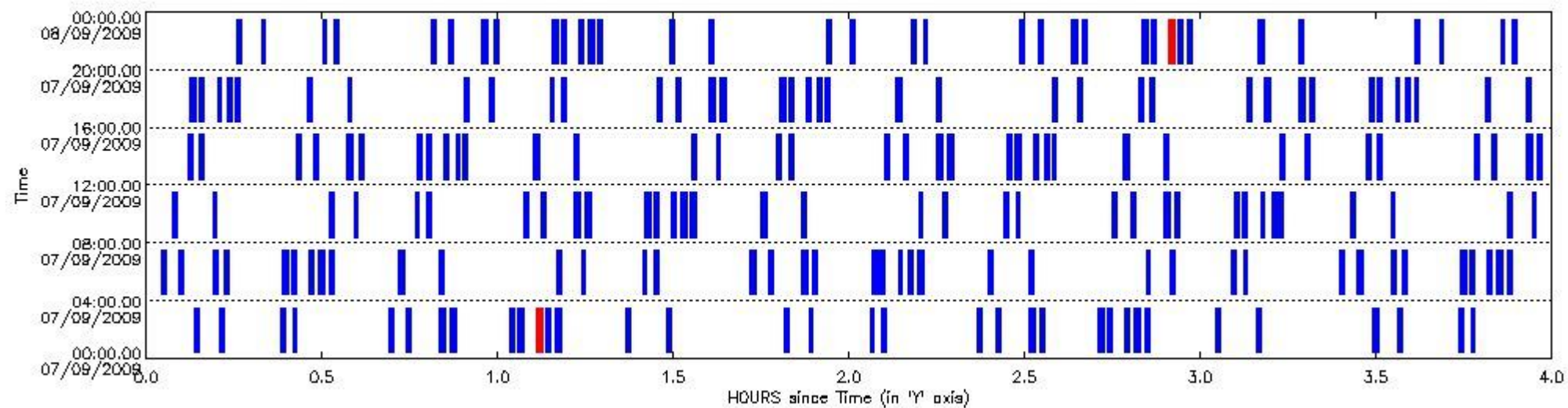
2.1 Level 0 products arrived in PCF (see template [here](#))

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
07-SEP-2009 01:06:35	1ZetCMa	177	39320
07-SEP-2009 22:54:33	1ZetCMa	177	39333

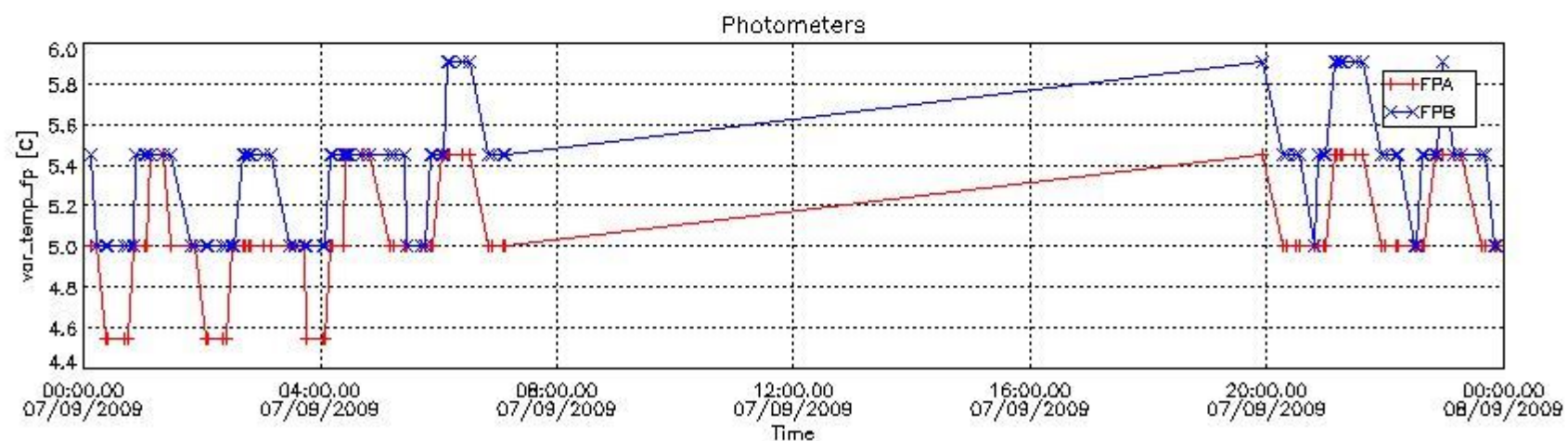
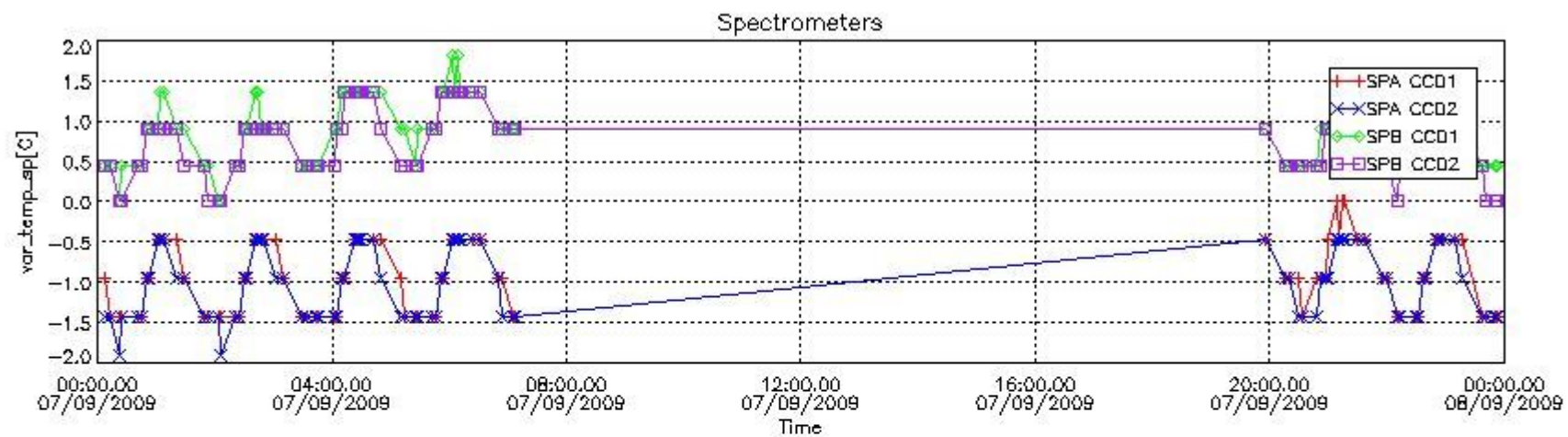
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090907_000819_000000492082_00188_39320_3513.N1	07-SEP-2009 00:08:19	Bright	49.000	90	54Alp Peg	2.4870	11000.	98	39320	No
2	GOM_TRA_1PNPDE20090907_001232_000000392082_00188_39320_3514.N1	07-SEP-2009 00:12:32	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39320	No
3	GOM_TRA_1PNPDE20090907_002259_000000432082_00188_39320_3515.N1	07-SEP-2009 00:22:59	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39320	No
4	GOM_TRA_1PNPDE20090907_002500_000000452082_00188_39320_3516.N1	07-SEP-2009 00:25:00	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39320	No
5	GOM_TRA_1PNPDE20090907_004121_000000462082_00188_39320_3517.N1	07-SEP-2009 00:41:21	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	39320	No
6	GOM_TRA_1PNPDE20090907_004425_000000492082_00188_39320_3518.N1	07-SEP-2009 00:44:25	Bright	49.000	107	37The Aur	2.6490	11000.	98	39320	No
7	GOM_TRA_1PNPDE20090907_005004_000000642082_00188_39320_3519.N1	07-SEP-2009 00:50:04	Twilight	64.000	151	13Mu Gem	2.8900	3000.0	128	39320	No
8	GOM_TRA_1PNPDE20090907_005156_000000542082_00188_39320_3520.N1	07-SEP-2009 00:51:56	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39320	No
9	GOM_TRA_1PNPDE20090907_010200_000000512082_00188_39320_3670.N1	07-SEP-2009 01:02:00	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	39320	No

10	GOM_TRA_1PNPDE20090907_010329_000000512082_00188_39320_3671.N1	07-SEP-2009 01:03:29	Dark	51.000	47	2Bet CMa	1.9760	28000.	102	39320	No
11	GOM_TRA_1PNPDE20090907_010805_000000582082_00188_39320_3672.N1	07-SEP-2009 01:08:05	Dark	57.500	139	9Bet Lep	2.8330	5600.0	115	39320	No
12	GOM_TRA_1PNPDE20090907_012152_000000552082_00189_39321_3673.N1	07-SEP-2009 01:21:52	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39321	No
13	GOM_TRA_1PNPDE20090907_012852_000000462082_00189_39321_3674.N1	07-SEP-2009 01:28:52	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39321	No
14	GOM_TRA_1PNPDE20090907_014855_000000432082_00189_39321_3675.N1	07-SEP-2009 01:48:55	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39321	No
15	GOM_TRA_1PNPDE20090907_015308_000000402082_00189_39321_3676.N1	07-SEP-2009 01:53:08	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39321	No
16	GOM_TRA_1PNPDE20090907_020334_000000402082_00189_39321_3677.N1	07-SEP-2009 02:03:34	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39321	No
17	GOM_TRA_1PNPDE20090907_020535_000000412082_00189_39321_3678.N1	07-SEP-2009 02:05:35	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39321	No
18	GOM_TRA_1PNPDE20090907_022157_000000482082_00189_39321_3806.N1	07-SEP-2009 02:21:57	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39321	No
19	GOM_TRA_1PNPDE20090907_022501_000000512082_00189_39321_3807.N1	07-SEP-2009 02:25:01	Bright	50.500	107	37The Aur	2.6490	11000.	101	39321	No
20	GOM_TRA_1PNPDE20090907_023040_000000632082_00189_39321_3808.N1	07-SEP-2009 02:30:40	Twi_and_stray	63.000	151	13Mu Gem	2.8900	3000.0	126	39321	No
21	GOM_TRA_1PNPDE20090907_023233_000000532082_00189_39321_3809.N1	07-SEP-2009 02:32:33	Twi_and_stray	52.500	44	24Gam Gem	1.9280	11000.	105	39321	No
22	GOM_TRA_1PNPDE20090907_024237_000000562082_00189_39321_3810.N1	07-SEP-2009 02:42:37	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	39321	No
23	GOM_TRA_1PNPDE20090907_024406_000000502082_00189_39321_3811.N1	07-SEP-2009 02:44:06	Dark	50.000	47	2Bet CMa	1.9760	28000.	100	39321	No
24	GOM_TRA_1PNPDE20090907_024710_000000452082_00189_39321_3812.N1	07-SEP-2009 02:47:10	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	39321	No
25	GOM_TRA_1PNPDE20090907_024842_000000602082_00189_39321_3813.N1	07-SEP-2009 02:48:42	Dark	59.500	139	9Bet Lep	2.8330	5600.0	119	39321	No
26	GOM_TRA_1PNPDE20090907_030229_000000562082_00190_39322_3814.N1	07-SEP-2009 03:02:29	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39322	No
27	GOM_TRA_1PNPDE20090907_030928_000000482082_00190_39322_3815.N1	07-SEP-2009 03:09:28	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39322	No
28	GOM_TRA_1PNPDE20090907_032930_000000632082_00190_39322_3816.N1	07-SEP-2009 03:29:30	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39322	No
29	GOM_TRA_1PNPDE20090907_033343_000000402082_00190_39322_3817.N1	07-SEP-2009 03:33:43	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39322	No
30	GOM_TRA_1PNPDE20090907_034409_000000432082_00190_39322_3818.N1	07-SEP-2009 03:44:09	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39322	No
31	GOM_TRA_1PNPDE20090907_034610_000000442082_00190_39322_3819.N1	07-SEP-2009 03:46:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39322	No
32	GOM_TRA_1PNPDE20090907_040233_000000482082_00190_39322_4004.N1	07-SEP-2009 04:02:33	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39322	No
33	GOM_TRA_1PNPDE20090907_040537_000000502082_00190_39322_4005.N1	07-SEP-2009 04:05:37	Bright	49.500	107	37The Aur	2.6490	11000.	99	39322	No
34	GOM_TRA_1PNPDE20090907_041117_000000632082_00190_39322_4006.N1	07-SEP-2009 04:11:17	Twi_and_stray	62.500	151	13Mu Gem	2.8900	3000.0	125	39322	No
35	GOM_TRA_1PNPDE20090907_041309_000000502082_00190_39322_4007.N1	07-SEP-2009 04:13:09	Twi_and_stray	50.000	44	24Gam Gem	1.9280	11000.	100	39322	No
36	GOM_TRA_1PNPDE20090907_042314_000000632082_00190_39322_4008.N1	07-SEP-2009 04:23:14	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39322	No
37	GOM_TRA_1PNPDE20090907_042443_000000522082_00190_39322_4009.N1	07-SEP-2009 04:24:43	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39322	No
38	GOM_TRA_1PNPDE20090907_042747_000000422082_00190_39322_4010.N1	07-SEP-2009 04:27:47	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	39322	No
39	GOM_TRA_1PNPDE20090907_042920_000000652082_00190_39322_4011.N1	07-SEP-2009 04:29:20	Dark	64.500	139	9Bet Lep	2.8330	5600.0	129	39322	No
40	GOM_TRA_1PNPDE20090907_044306_000000552082_00191_39323_4012.N1	07-SEP-2009 04:43:06	Dark	54.500	157	The1Eri	2.9060	9300.0	109	39323	No
41	GOM_TRA_1PNPDE20090907_045004_000000462082_00191_39323_4013.N1	07-SEP-2009 04:50:04	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39323	No
42	GOM_TRA_1PNPDE20090907_051006_000000432082_00191_39323_4014.N1	07-SEP-2009 05:10:06	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39323	No
43	GOM_TRA_1PNPDE20090907_051419_000000422082_00191_39323_4015.N1	07-SEP-2009 05:14:19	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	39323	No
44	GOM_TRA_1PNPDE20090907_052445_000000432082_00191_39323_4016.N1	07-SEP-2009 05:24:45	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39323	No
45	GOM_TRA_1PNPDE20090907_052645_000000452082_00191_39323_4017.N1	07-SEP-2009 05:26:45	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39323	No
46	GOM_TRA_1PNPDE20090907_054309_000000522082_00191_39323_4163.N1	07-SEP-2009 05:43:09	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	39323	No
47	GOM_TRA_1PNPDE20090907_054613_000000542082_00191_39323_4164.N1	07-SEP-2009 05:46:13	Bright	54.000	107	37The Aur	2.6490	11000.	108	39323	No
48	GOM_TRA_1PNPDE20090907_055153_000000572082_00191_39323_4165.N1	07-SEP-2009 05:51:53	Twi_and_stray	56.500	151	13Mu Gem	2.8900	3000.0	113	39323	No
49	GOM_TRA_1PNPDE20090907_055346_000000532082_00191_39323_4166.N1	07-SEP-2009 05:53:46	Twi_and_stray	53.000	44	24Gam Gem	1.9280	11000.	106	39323	No
50	GOM_TRA_1PNPDE20090907_060350_000000622082_00191_39323_4167.N1	07-SEP-2009 06:03:50	Dark	62.000	1	9Alp CMa	-1.4400	11000.	124	39323	No
51	GOM_TRA_1PNPDE20090907_060520_000000512082_00191_39323_4168.N1	07-SEP-2009 06:05:20	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39323	No
52	GOM_TRA_1PNPDE20090907_060824_000000442082_00191_39323_4169.N1	07-SEP-2009 06:08:24	Dark	44.000	177	1Zet CMa	3.0220	26000.	88	39323	No
53	GOM_TRA_1PNPDE20090907_060957_000000602082_00191_39323_4170.N1	07-SEP-2009 06:09:57	Dark	59.500	139	9Bet Lep	2.8330	5600.0	119	39323	No
54	GOM_TRA_1PNPDE20090907_062343_000000572082_00192_39324_4171.N1	07-SEP-2009 06:23:43	Dark	56.500	157	The1Eri	2.9060	9300.0	113	39324	No
55	GOM_TRA_1PNPDE20090907_063041_000000472082_00192_39324_4172.N1	07-SEP-2009 06:30:41	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39324	No
56	GOM_TRA_1PNPDE20090907_065041_000000432082_00192_39324_4173.N1	07-SEP-2009 06:50:41	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39324	No
57	GOM_TRA_1PNPDE20090907_065455_000000402082_00192_39324_4174.N1	07-SEP-2009 06:54:55	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39324	No
58	GOM_TRA_1PNPDE20090907_070520_000000432082_00192_39324_4175.N1	07-SEP-2009 07:05:20	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39324	No
59	GOM_TRA_1PNPDE20090907_070721_000000432082_00192_39324_4176.N1	07-SEP-2009 07:07:21	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39324	No
60	GOM_TRA_1PNPDE20090907_195532_000000472082_00200_39332_4603.N1	07-SEP-2009 19:55:32	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39332	No
61	GOM_TRA_1PNPDE20090907_201526_000000422082_00200_39332_4604.N1	07-SEP-2009 20:15:26	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39332	No
62	GOM_TRA_1PNPDE20090907_201939_000000402082_00200_39332_4605.N1	07-SEP-2009 20:19:39	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39332	No
63	GOM_TRA_1PNPDE20090907_203003_000000432082_00200_39332_4606.N1	07-SEP-2009 20:30:03	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39332	No
64	GOM_TRA_1PNPDE20090907_203203_000000442082_00200_39332_4607.N1	07-SEP-2009 20:32:03	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39332	No
65	GOM_TRA_1PNPDE20090907_204830_000000492082_00200_39332_4608.N1	07-SEP-2009 20:48:30	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	39332	No
66	GOM_TRA_1PNPDE20090907_205136_000000532082_00200_39332_4609.N1	07-SEP-2009 20:51:36	Bright	53.000	107	37The Aur	2.6490	11000.	106	39332	No
67	GOM_TRA_1PNPDE20090907_205720_000000632082_00200_39332_4610.N1	07-SEP-2009 20:57:20	Twi_and_stray	62.500	151	13Mu Gem	2.8900	3000.0	125	39332	No
68	GOM_TRA_1PNPDE20090907_205913_000000542082_00200_39332_4611.N1	07-SEP-2009 20:59:13	Twi_and_stray	54.000	44	24Gam Gem	1.9280	11000.	108	39332	No

69	GOM_TRA_1PNPDE20090907_210921_000000542082_00200_39332_4757.N1	07-SEP-2009 21:09:21	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	39332	No
70	GOM_TRA_1PNPDE20090907_211052_000000512082_00200_39332_4758.N1	07-SEP-2009 21:10:52	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39332	No
71	GOM_TRA_1PNPDE20090907_211355_000000442082_00200_39332_4759.N1	07-SEP-2009 21:13:55	Dark	43.500	177	1Zet CMa	3.0220	26000.	87	39332	No
72	GOM_TRA_1PNPDE20090907_211706_000000492082_00200_39332_4760.N1	07-SEP-2009 21:17:06	Dark	49.000	108	Alp Col	2.6520	15200.	98	39332	No
73	GOM_TRA_1PNPDE20090907_212916_000000562082_00201_39333_4761.N1	07-SEP-2009 21:29:16	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39333	No
74	GOM_TRA_1PNPDE20090907_213609_000000452082_00201_39333_4762.N1	07-SEP-2009 21:36:09	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	39333	No
75	GOM_TRA_1PNPDE20090907_215601_000000632082_00201_39333_4763.N1	07-SEP-2009 21:56:01	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39333	No
76	GOM_TRA_1PNPDE20090907_220015_000000412082_00201_39333_4764.N1	07-SEP-2009 22:00:15	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39333	No
77	GOM_TRA_1PNPDE20090907_221038_000000442082_00201_39333_4765.N1	07-SEP-2009 22:10:38	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	39333	No
78	GOM_TRA_1PNPDE20090907_221238_000000462082_00201_39333_4766.N1	07-SEP-2009 22:12:38	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39333	No
79	GOM_TRA_1PNPDE20090907_222906_000000522082_00201_39333_4767.N1	07-SEP-2009 22:29:06	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	39333	No
80	GOM_TRA_1PNPDE20090907_223212_000000532082_00201_39333_4768.N1	07-SEP-2009 22:32:12	Bright	52.500	107	37The Aur	2.6490	11000.	105	39333	No
81	GOM_TRA_1PNPDE20090907_223756_000000732082_00201_39333_4769.N1	07-SEP-2009 22:37:56	Twilight_stray	72.500	151	13Mu Gem	2.8900	3000.0	145	39333	No
82	GOM_TRA_1PNPDE20090907_223950_000000562082_00201_39333_4770.N1	07-SEP-2009 22:39:50	Twilight_stray	55.500	44	24Gam Gem	1.9280	11000.	111	39333	No
83	GOM_TRA_1PNPDE20090907_224957_000000632082_00201_39333_4909.N1	07-SEP-2009 22:49:57	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39333	No
84	GOM_TRA_1PNPDE20090907_225129_000000512082_00201_39333_4910.N1	07-SEP-2009 22:51:29	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39333	No
85	GOM_TRA_1PNPDE20090907_225743_000000482082_00201_39333_4911.N1	07-SEP-2009 22:57:43	Dark	48.000	108	Alp Col	2.6520	15200.	96	39333	No
86	GOM_TRA_1PNPDE20090907_230954_000000552082_00202_39334_4912.N1	07-SEP-2009 23:09:54	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39334	No
87	GOM_TRA_1PNPDE20090907_231645_000000472082_00202_39334_4913.N1	07-SEP-2009 23:16:45	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39334	No
88	GOM_TRA_1PNPDE20090907_233637_000000432082_00202_39334_4914.N1	07-SEP-2009 23:36:37	Bright	42.500	90	54Alp Peg	2.4870	11000.	85	39334	No
89	GOM_TRA_1PNPDE20090907_234050_000000392082_00202_39334_4915.N1	07-SEP-2009 23:40:50	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39334	No
90	GOM_TRA_1PNPDE20090907_235114_000000432082_00202_39334_4916.N1	07-SEP-2009 23:51:14	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39334	No
91	GOM_TRA_1PNPDE20090907_235313_000000422082_00202_39334_4917.N1	07-SEP-2009 23:53:13	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39334	No

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



4. Overview of dark signal processing per product

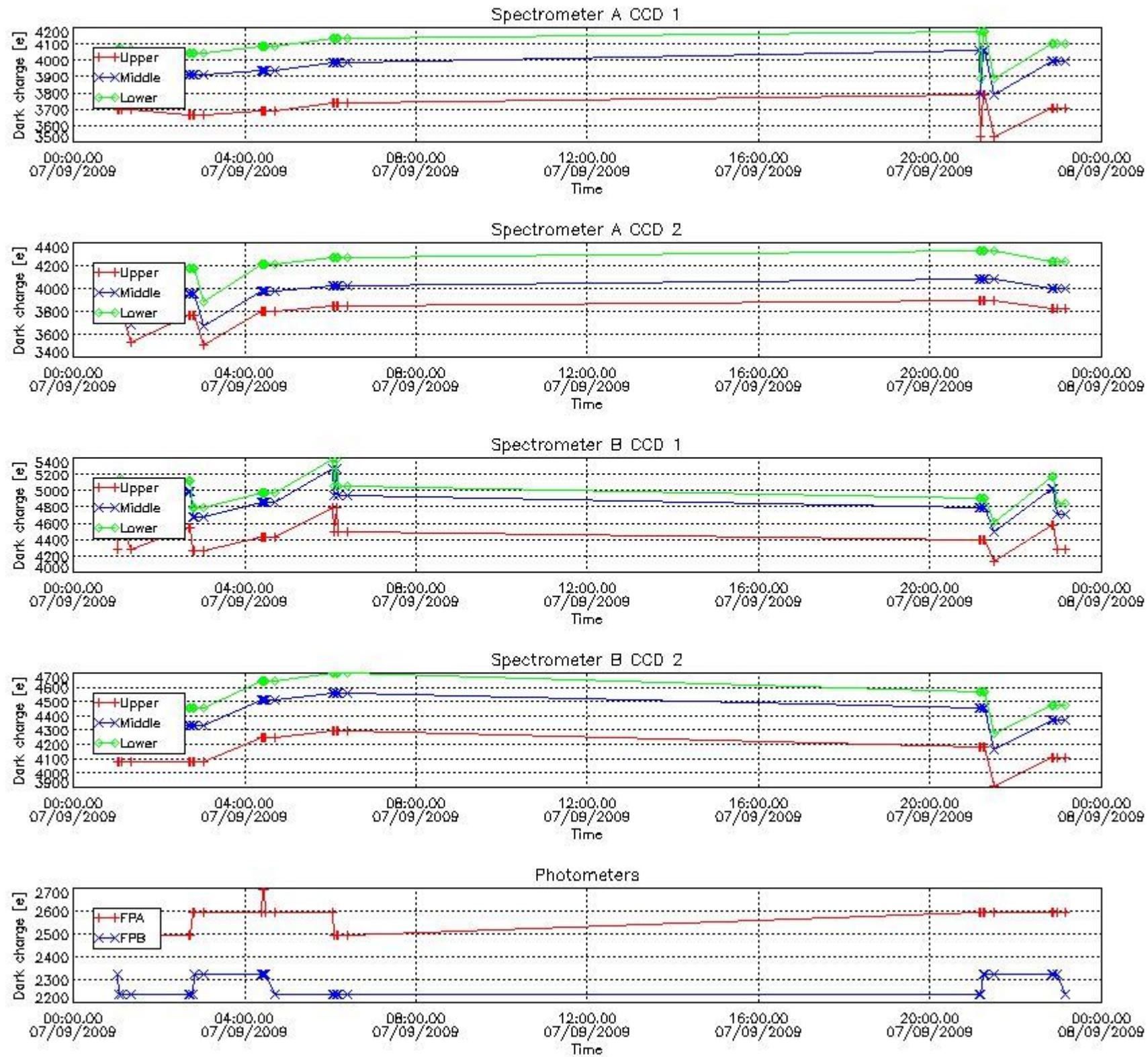
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090907_195532_000000472082_00200_39332_4603.N1	DC map used
GOM_TRA_1PNPDE20090907_201526_000000422082_00200_39332_4604.N1	DC map used
GOM_TRA_1PNPDE20090907_201939_000000402082_00200_39332_4605.N1	DC map used
GOM_TRA_1PNPDE20090907_203003_000000432082_00200_39332_4606.N1	DC map used
GOM_TRA_1PNPDE20090907_203203_000000442082_00200_39332_4607.N1	DC map used
GOM_TRA_1PNPDE20090907_204830_000000492082_00200_39332_4608.N1	DC map used
GOM_TRA_1PNPDE20090907_205136_000000532082_00200_39332_4609.N1	DC map used
GOM_TRA_1PNPDE20090907_205720_000000632082_00200_39332_4610.N1	DC map used
GOM_TRA_1PNPDE20090907_205913_000000542082_00200_39332_4611.N1	DC map used

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



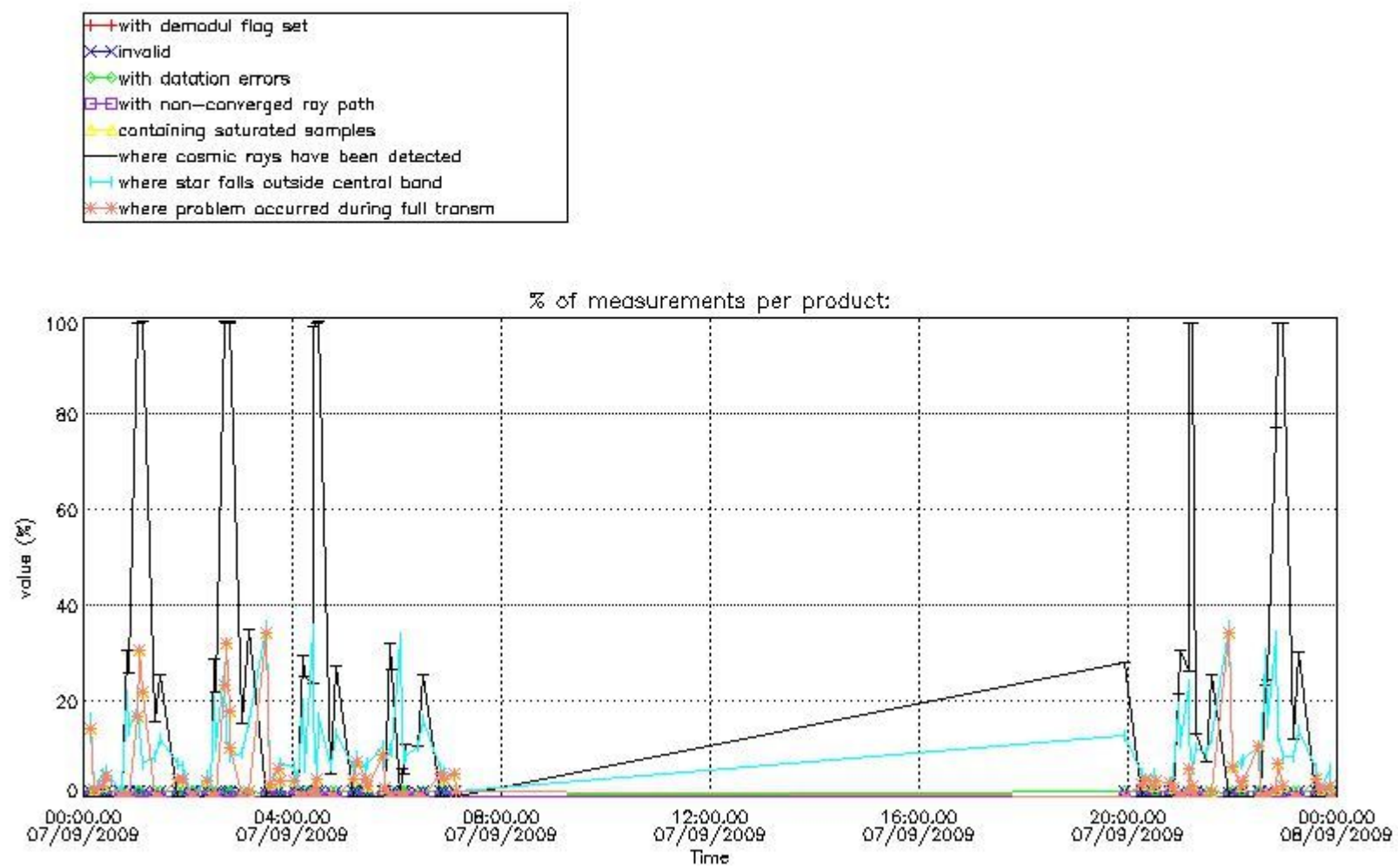
5. Demodulation flag and quality information monitoring

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.

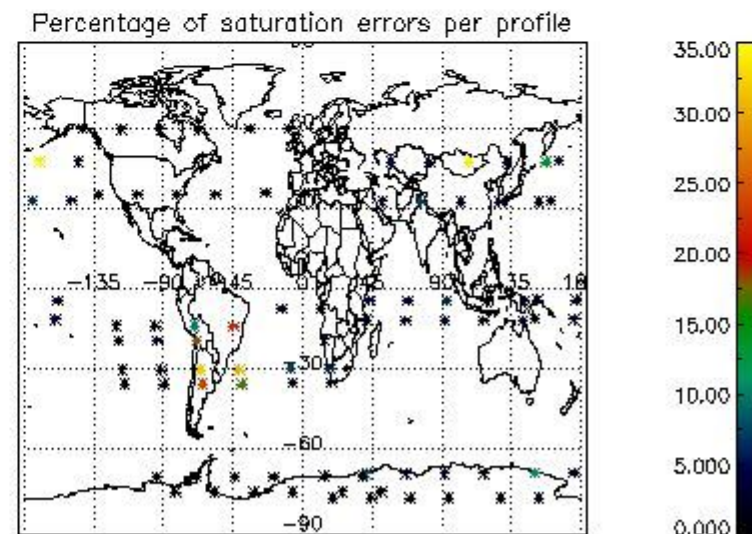
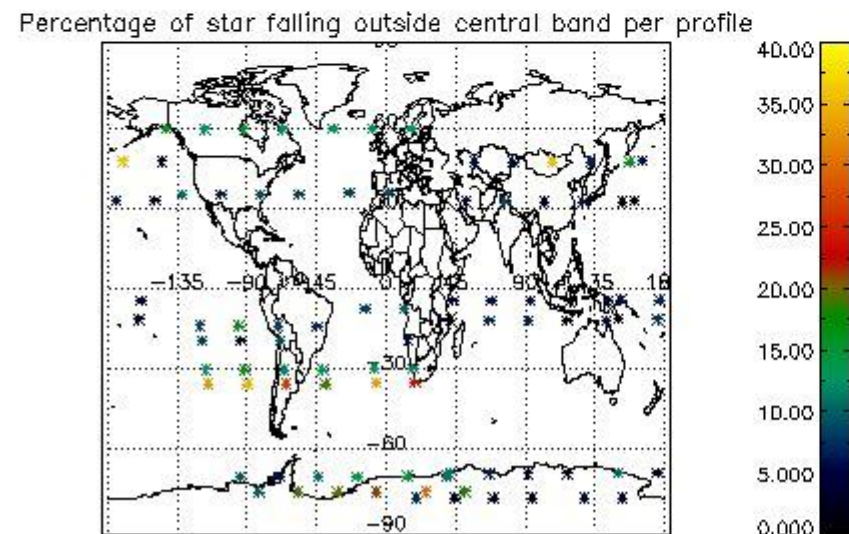
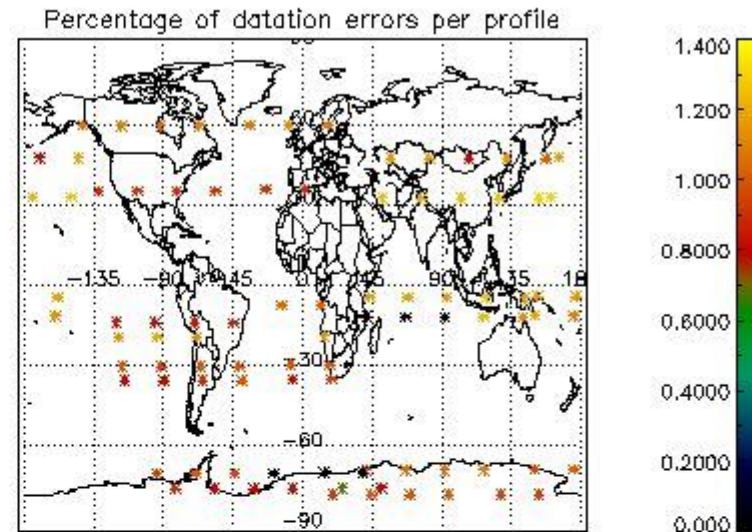
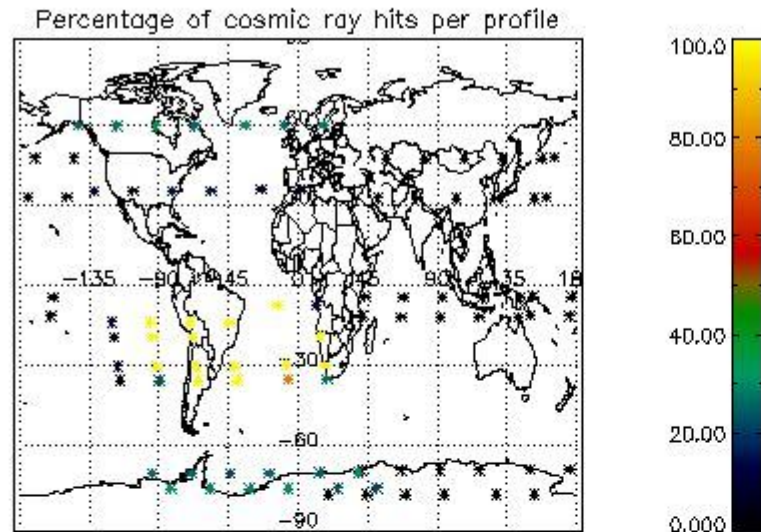
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.6593 %
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)



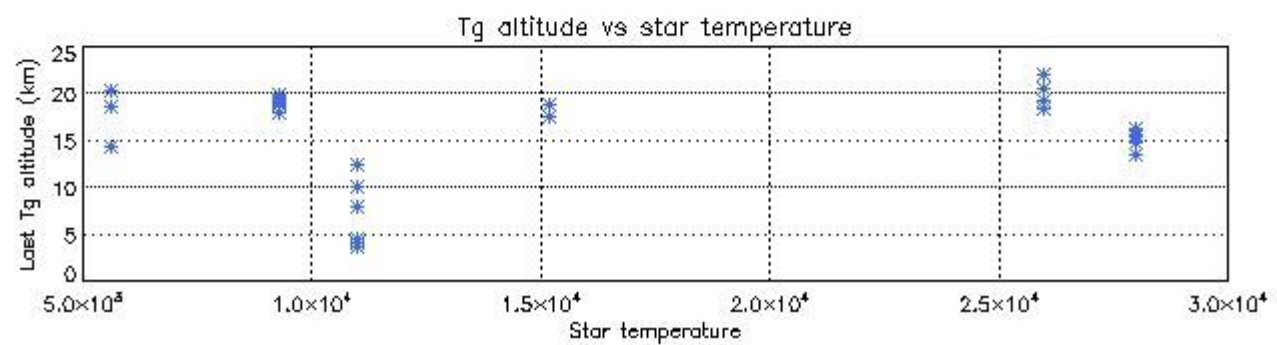
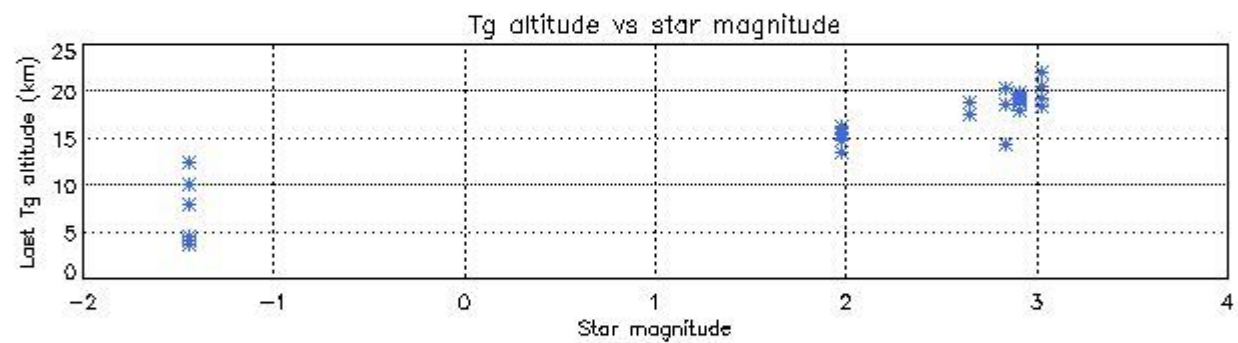
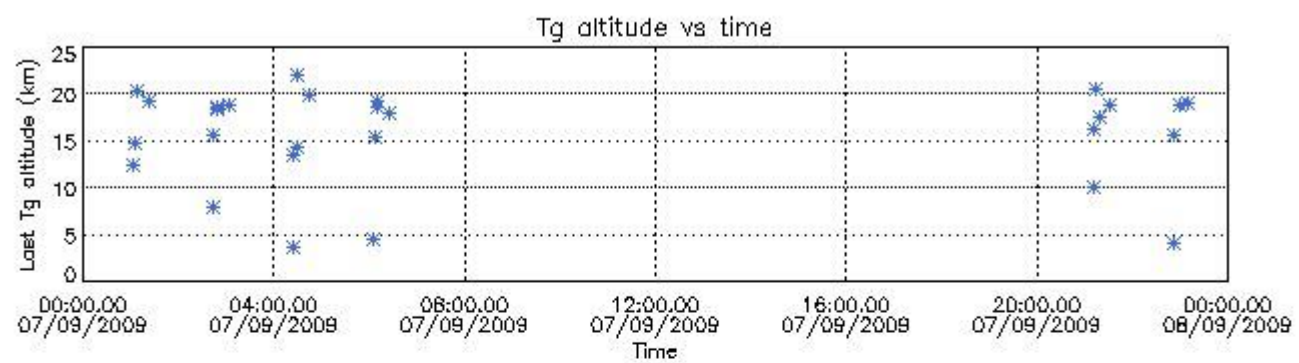
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.555	20.880	NaN
St. deviation:	5.1255	4.6846	NaN
Maximum:	21.977	29.633	NaN
Minimum:	3.7053	3.7368	NaN
Number of data:	28.000	44.000	NaN

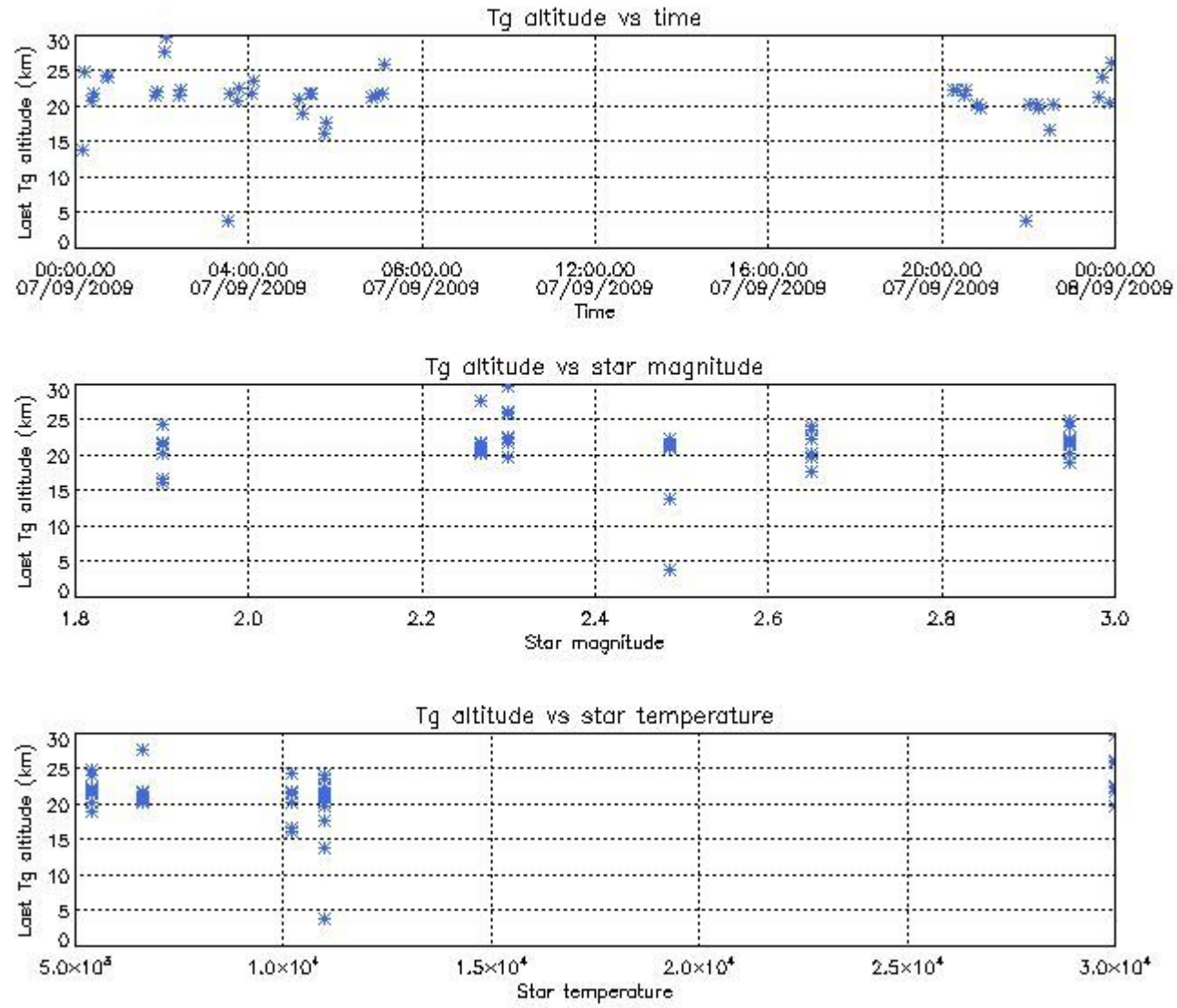
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

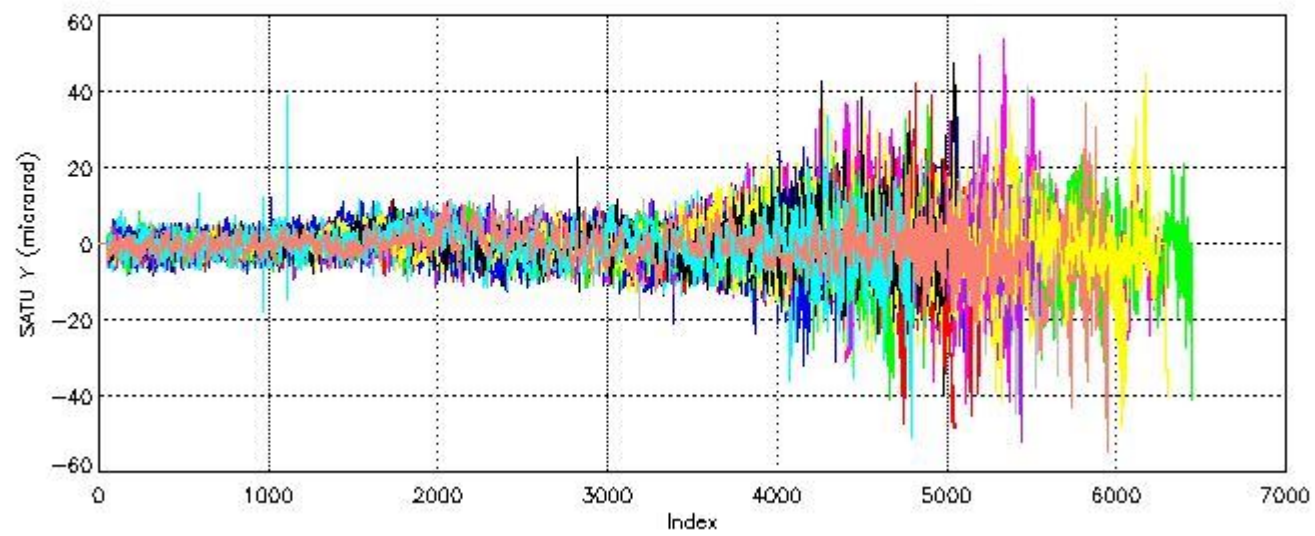
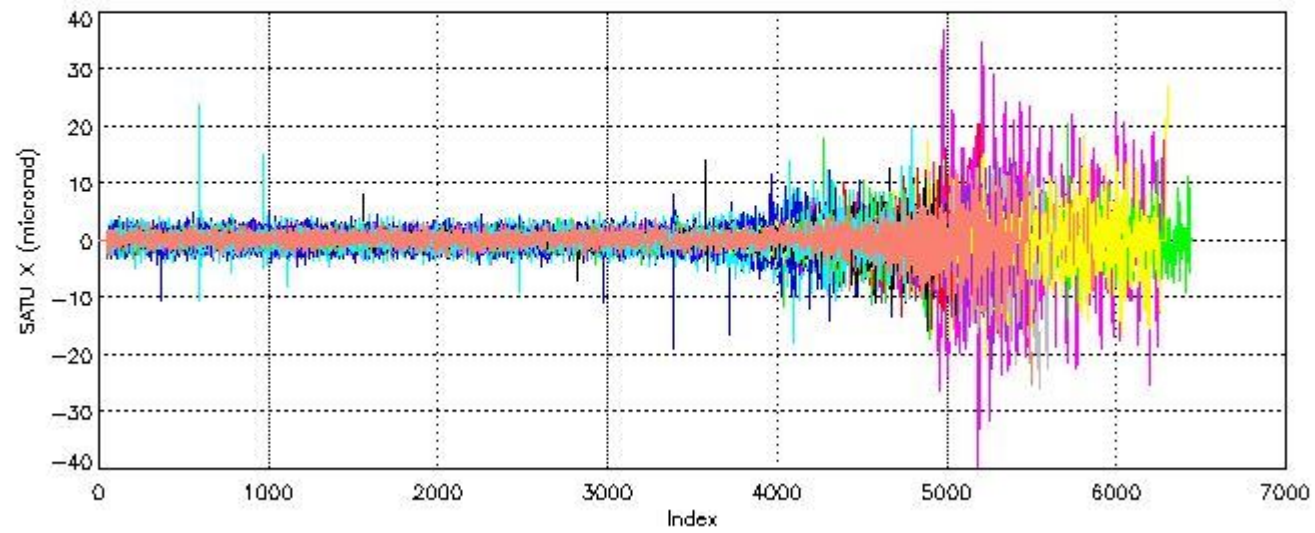


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24287	-0.50342	0.25524	-0.37700
St. deviation:	0.74339	1.8487	0.89323	2.0141
Maximum:	23.900	13.400	4.6000	11.300
Minimum:	-10.600	-17.900	-4.0000	-10.800

Number of data:	33000.	33000.	46550.	46550.
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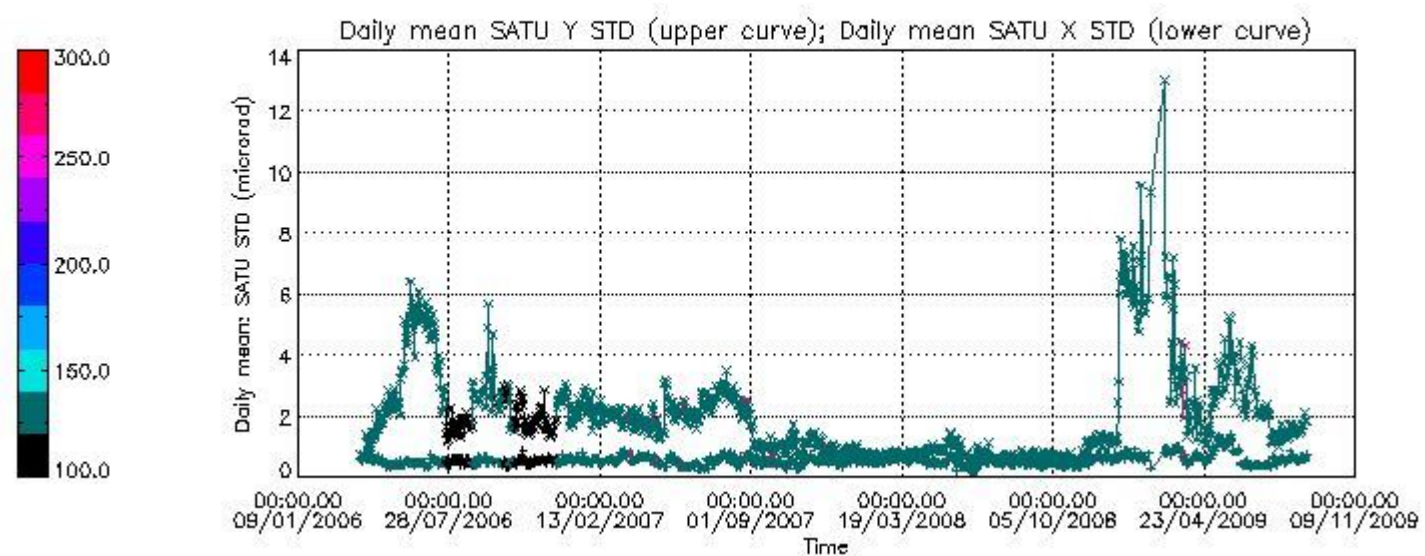
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

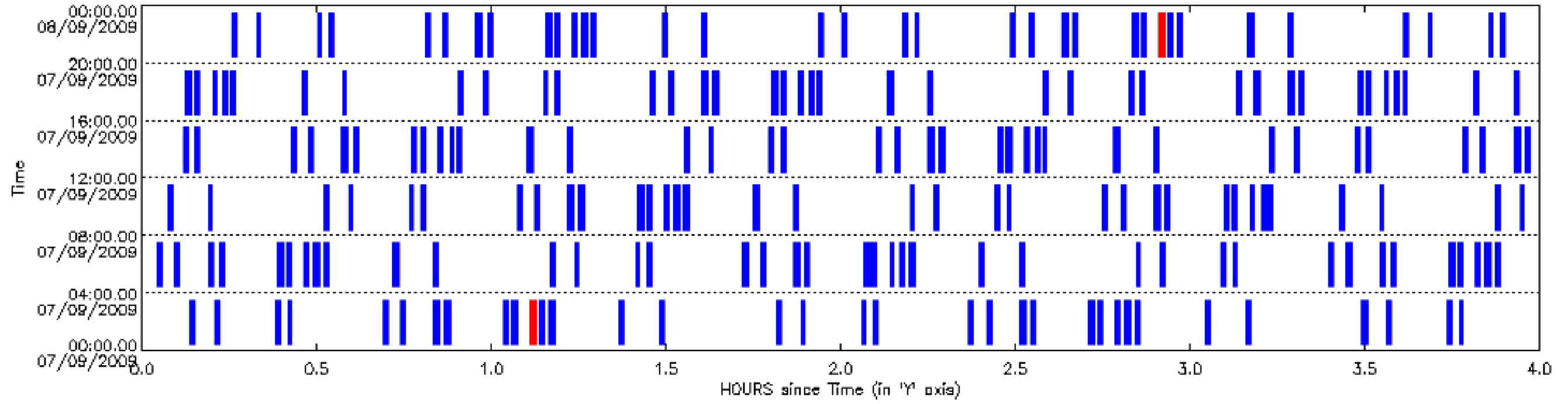
Lower curve: STD of SATU X axis

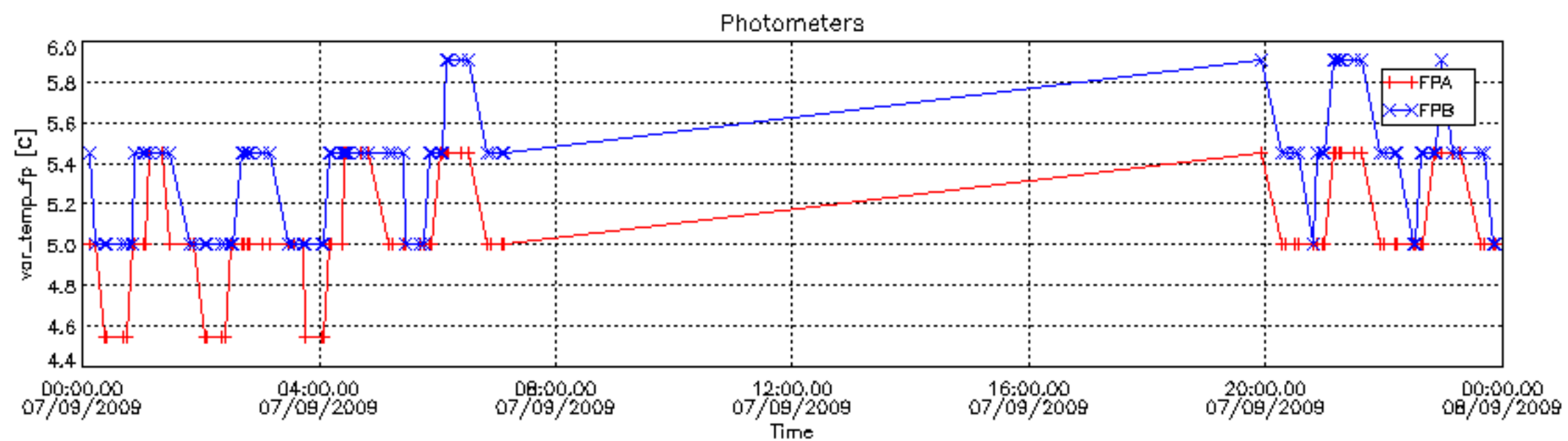
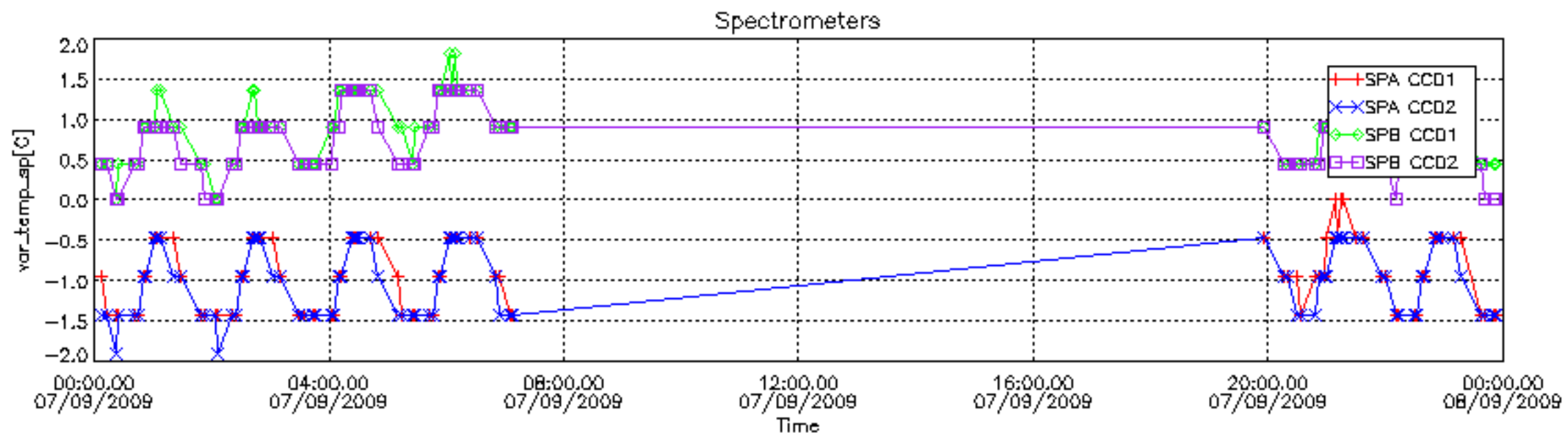


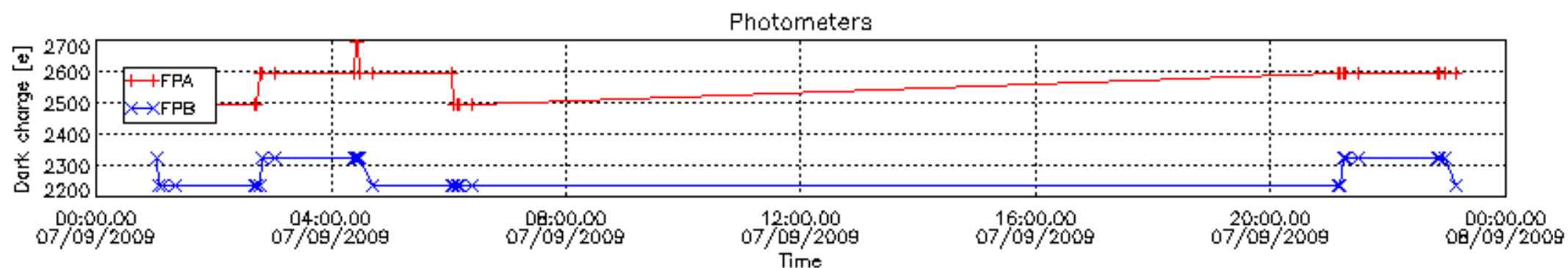
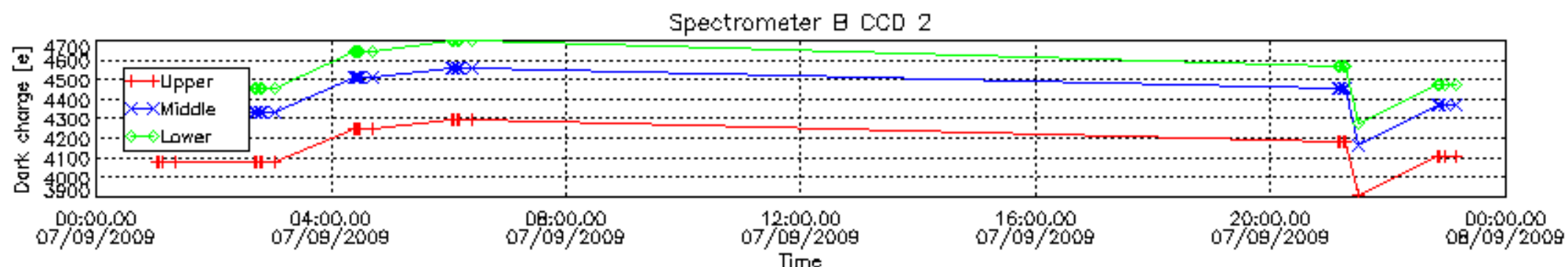
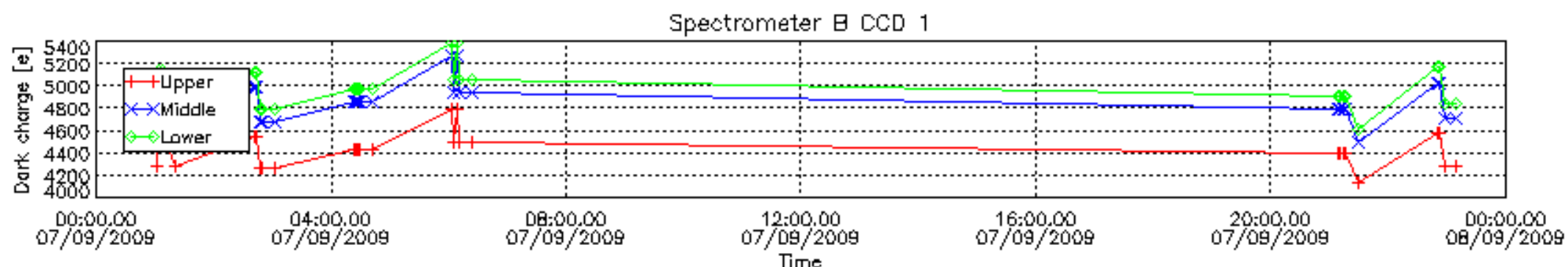
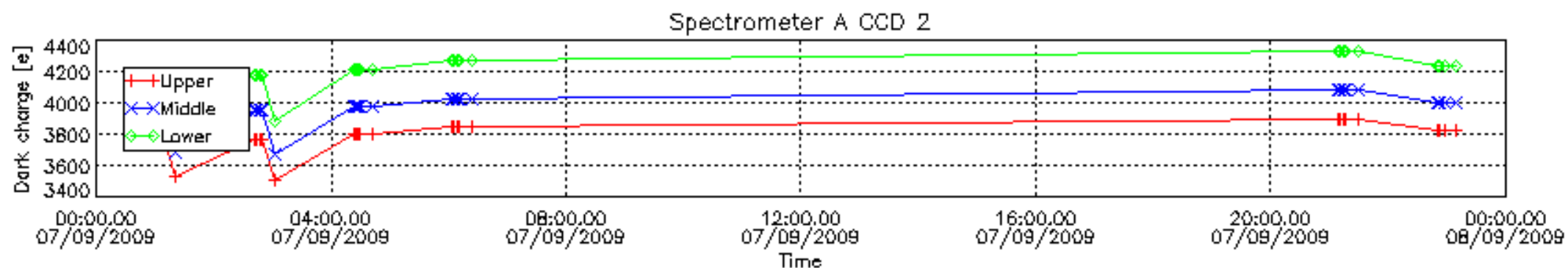
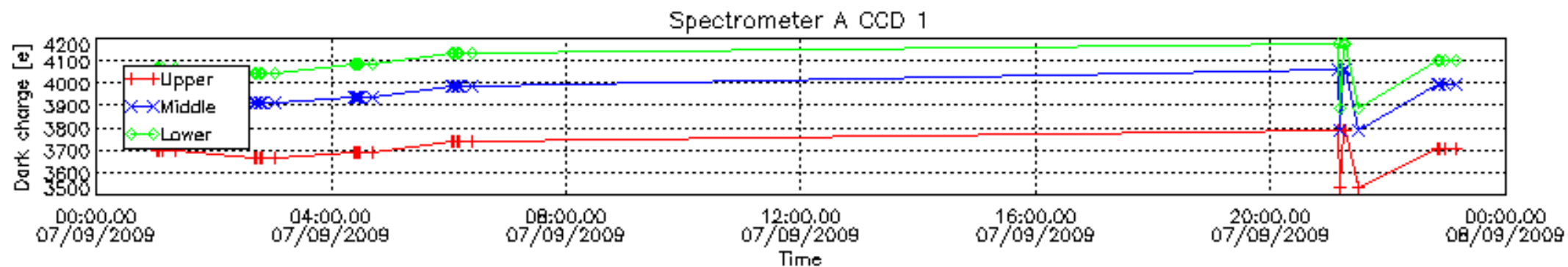
8. Auxiliary Data Files used for the production reported in section 2.4

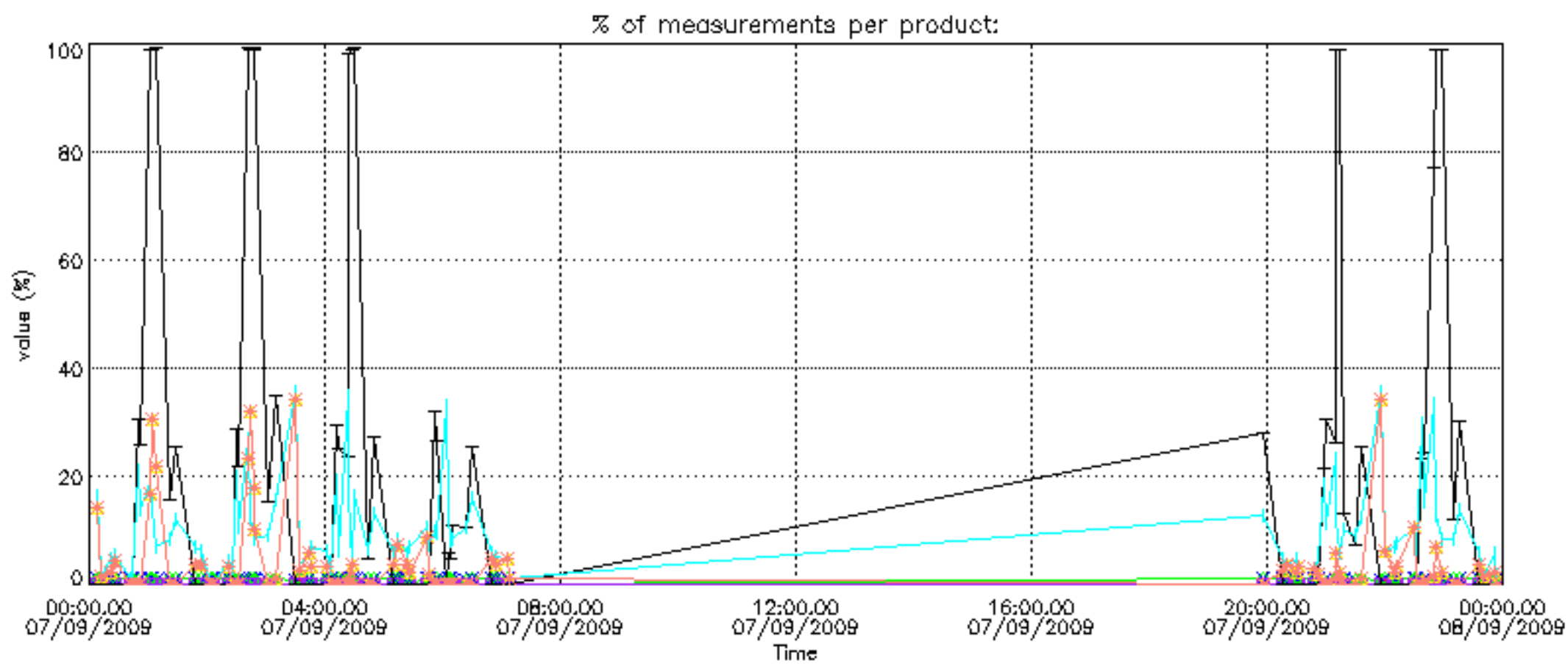
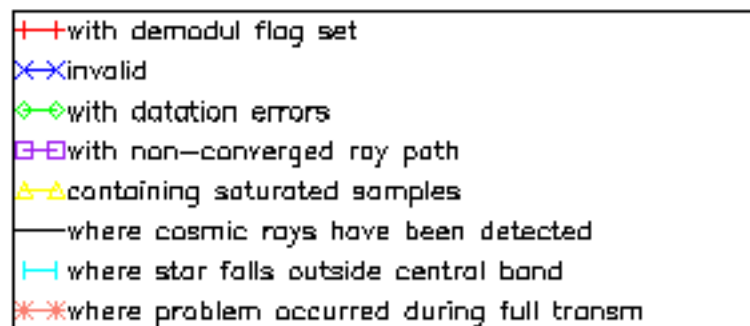
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-SEP-2009 00:08:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090831_103835_20090829_000000_20100101_000000	1	07-SEP-2009 00:08:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090907_104444_20090905_000000_20100101_000000	60	07-SEP-2009 19:55:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-SEP-2009 00:08:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-SEP-2009 00:08:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-SEP-2009 00:08:19
ECMWF_FILE	AUX_ECF_AXNECM20090906_064113_20090906_210000_20090907_090000	1	07-SEP-2009 00:08:19
ECMWF_FILE	AUX_ECF_AXNECM20090906_190120_20090907_030000_20090907_150000	32	07-SEP-2009 04:02:33
ECMWF_FILE	AUX_ECF_AXNECM20090907_064112_20090907_150000_20090908_030000	60	07-SEP-2009 19:55:32
ECMWF_FILE	AUX_ECF_AXNECM20090907_064112_20090907_210000_20090908_090000	69	07-SEP-2009 21:09:21
OPTIONAL_ECMWF_FILE	MISSING	1	07-SEP-2009 00:08:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090906_213242_000060572082_00186_39318_8707.N1	1	07-SEP-2009 00:08:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090906_231858_000057382082_00187_39319_8708.N1	9	07-SEP-2009 01:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_005955_000044632082_00188_39320_8709.N1	18	07-SEP-2009 02:21:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_021937_000051012082_00189_39321_8710.N1	32	07-SEP-2009 04:02:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_034956_000057382082_00190_39322_8711.N1	46	07-SEP-2009 05:43:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_195137_000038252082_00200_39332_8713.N1	60	07-SEP-2009 19:55:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_210042_000060572082_00200_39332_8714.N1	83	07-SEP-2009 22:49:57

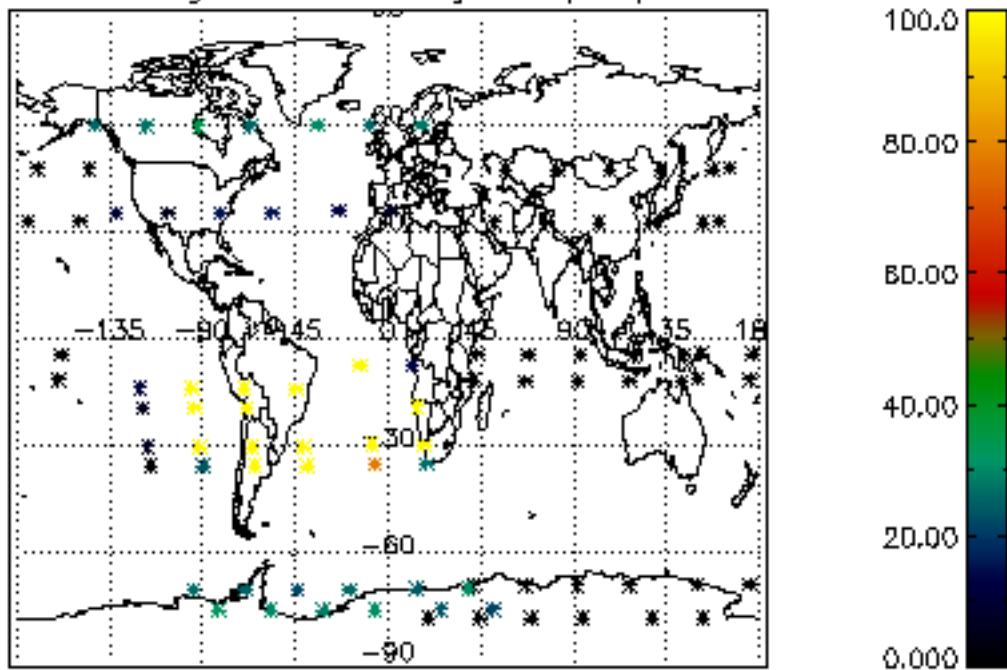




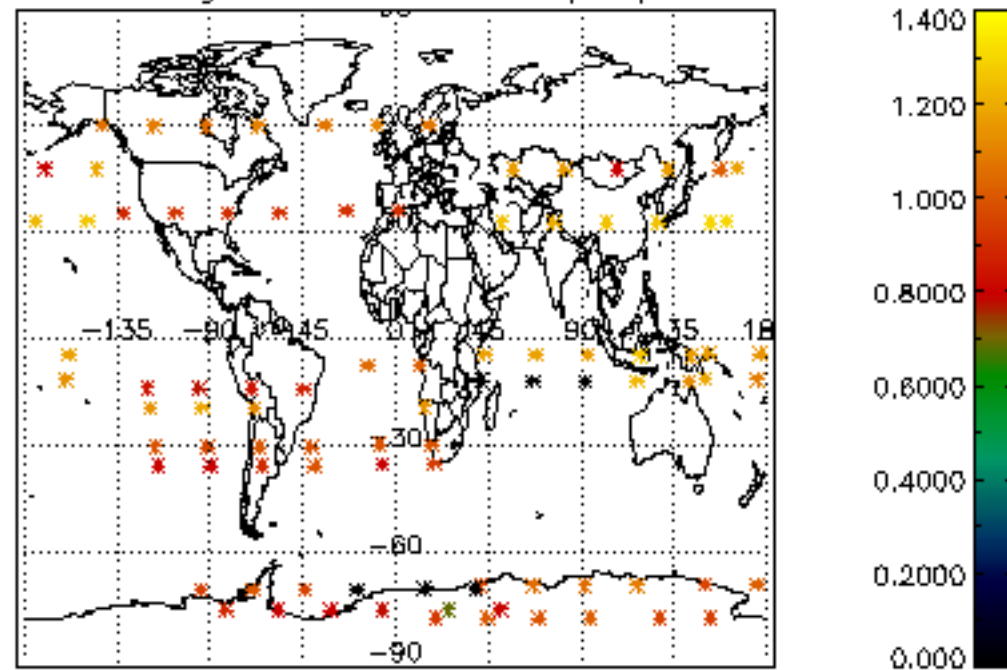




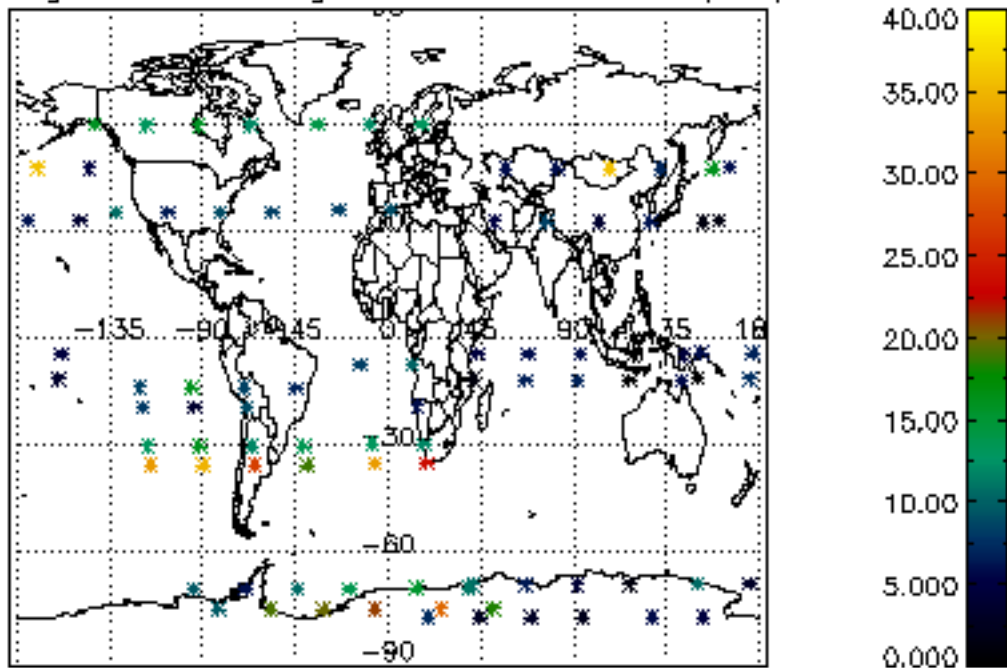
Percentage of cosmic ray hits per profile



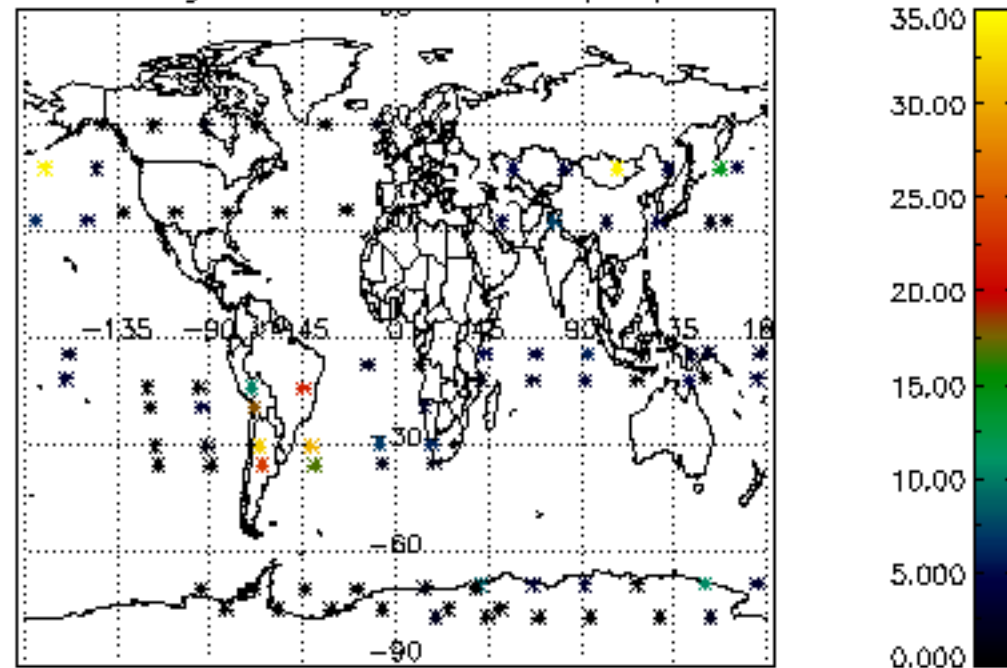
Percentage of datation errors per profile



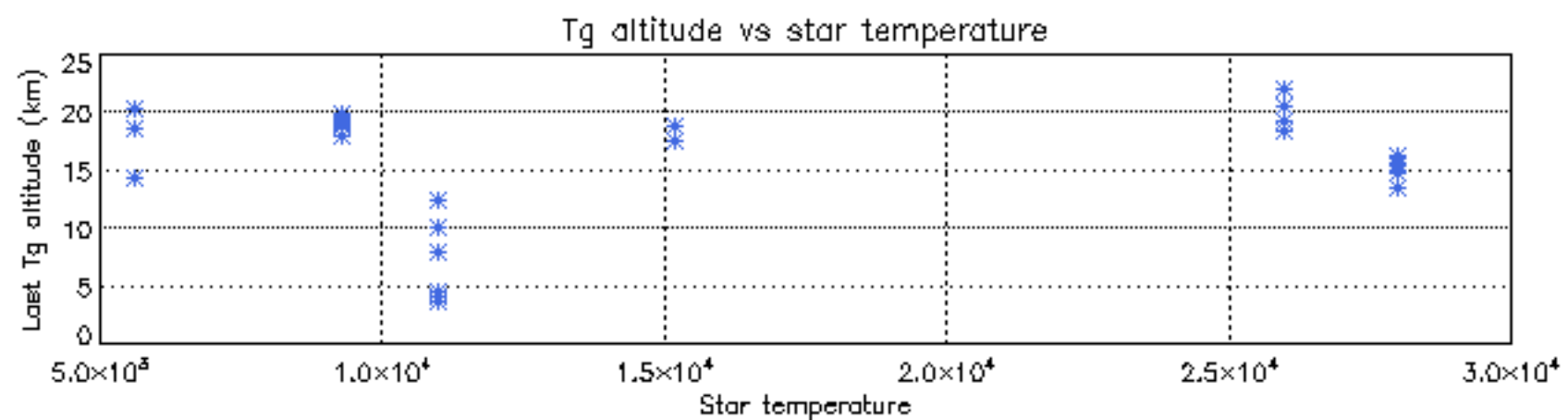
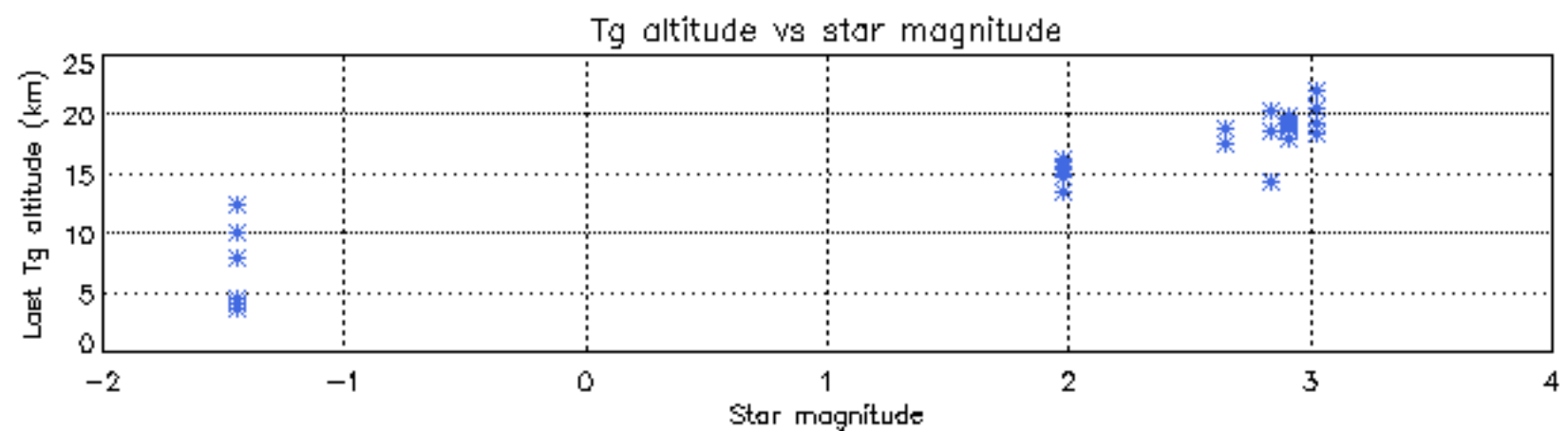
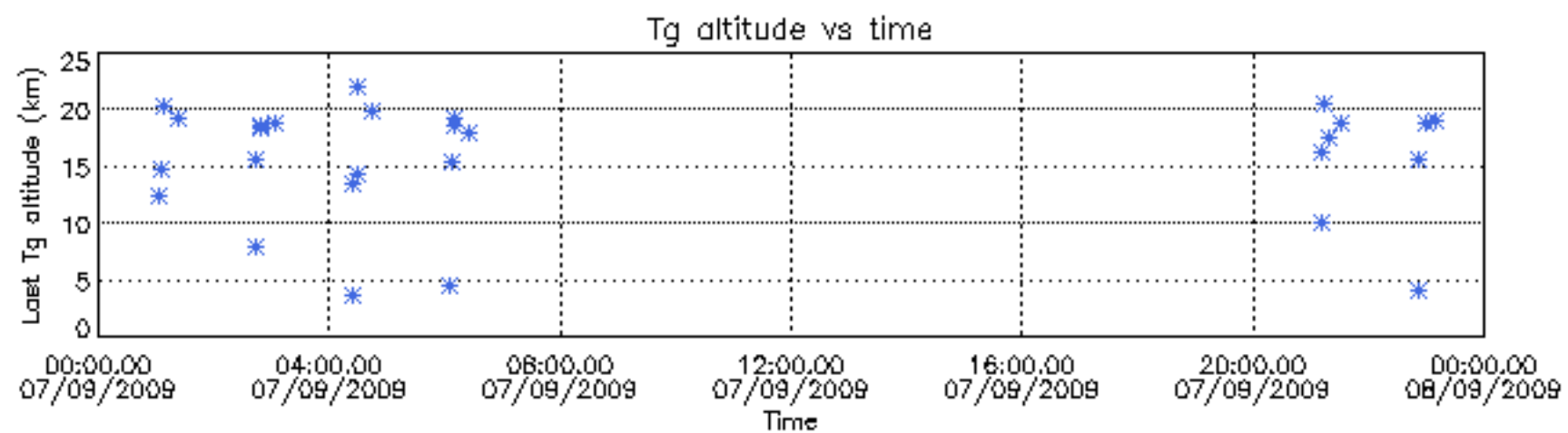
Percentage of star falling outside central band per profile



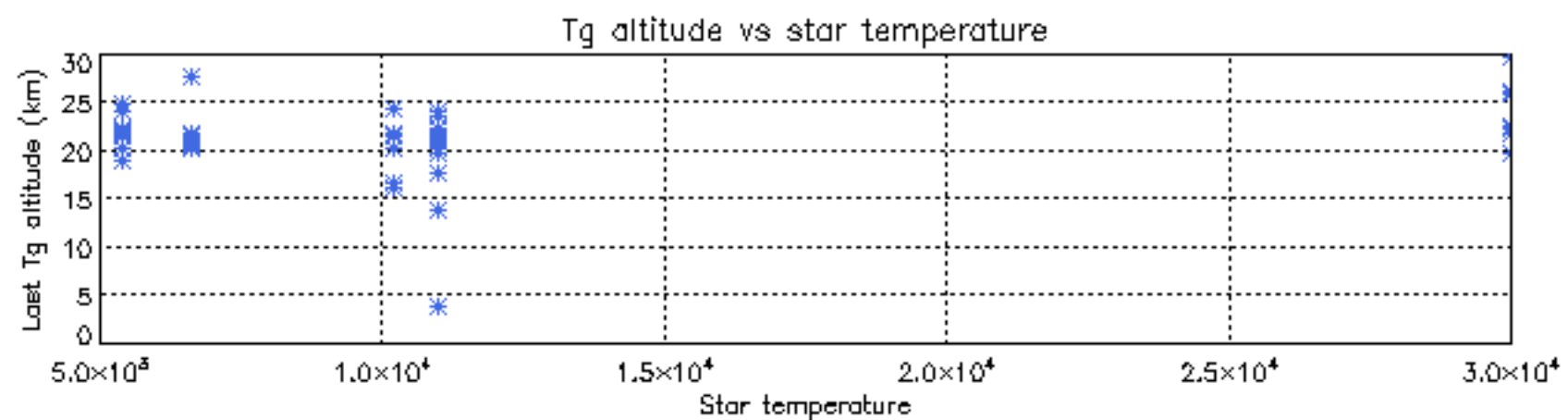
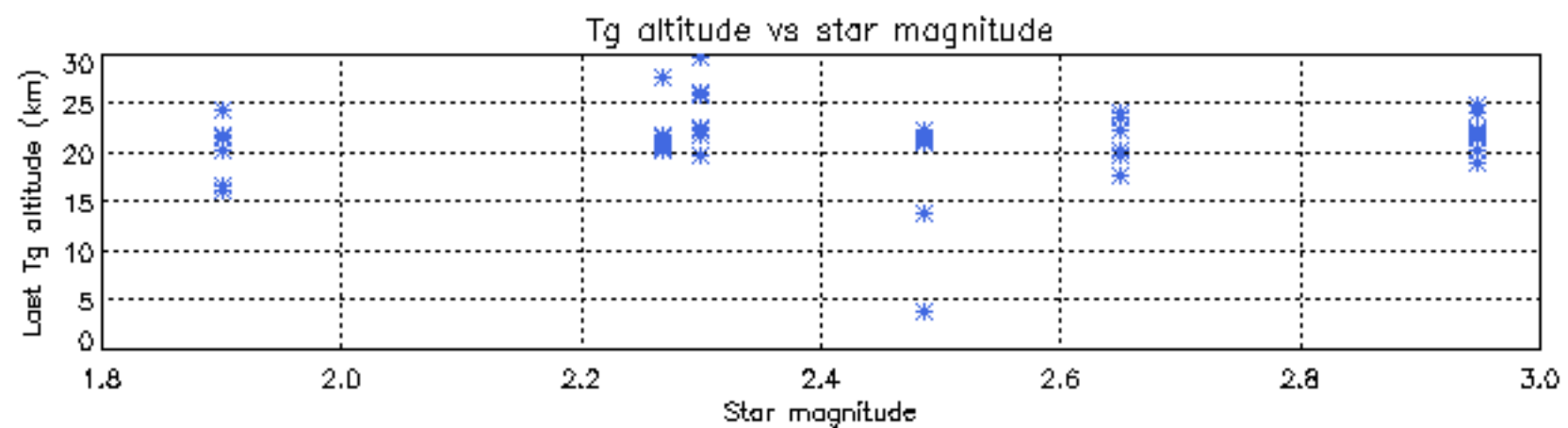
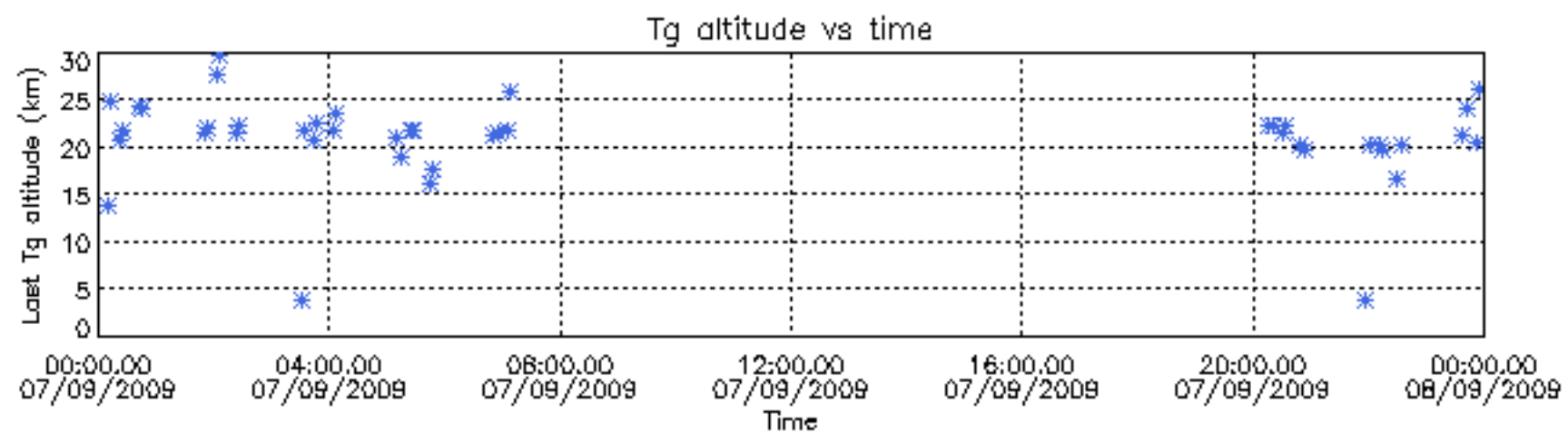
Percentage of saturation errors per profile

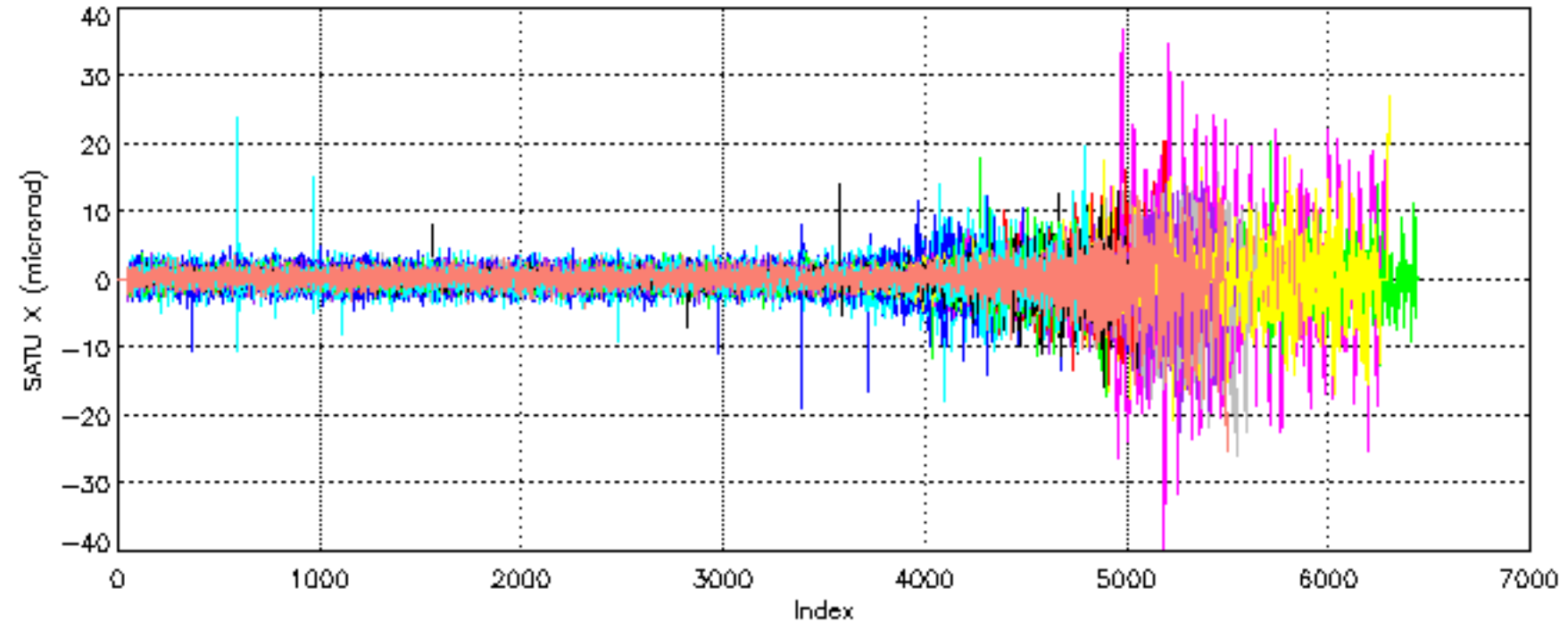


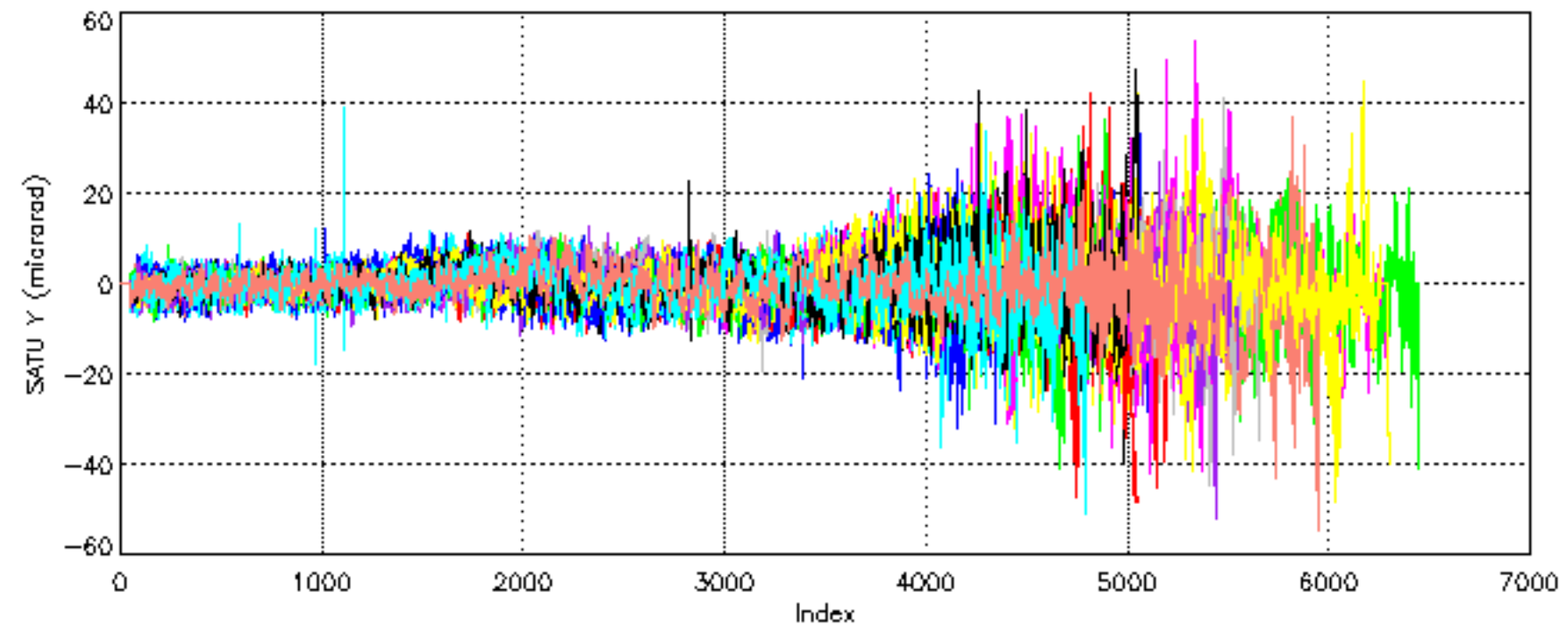
Tangent altitude at which the star is lost

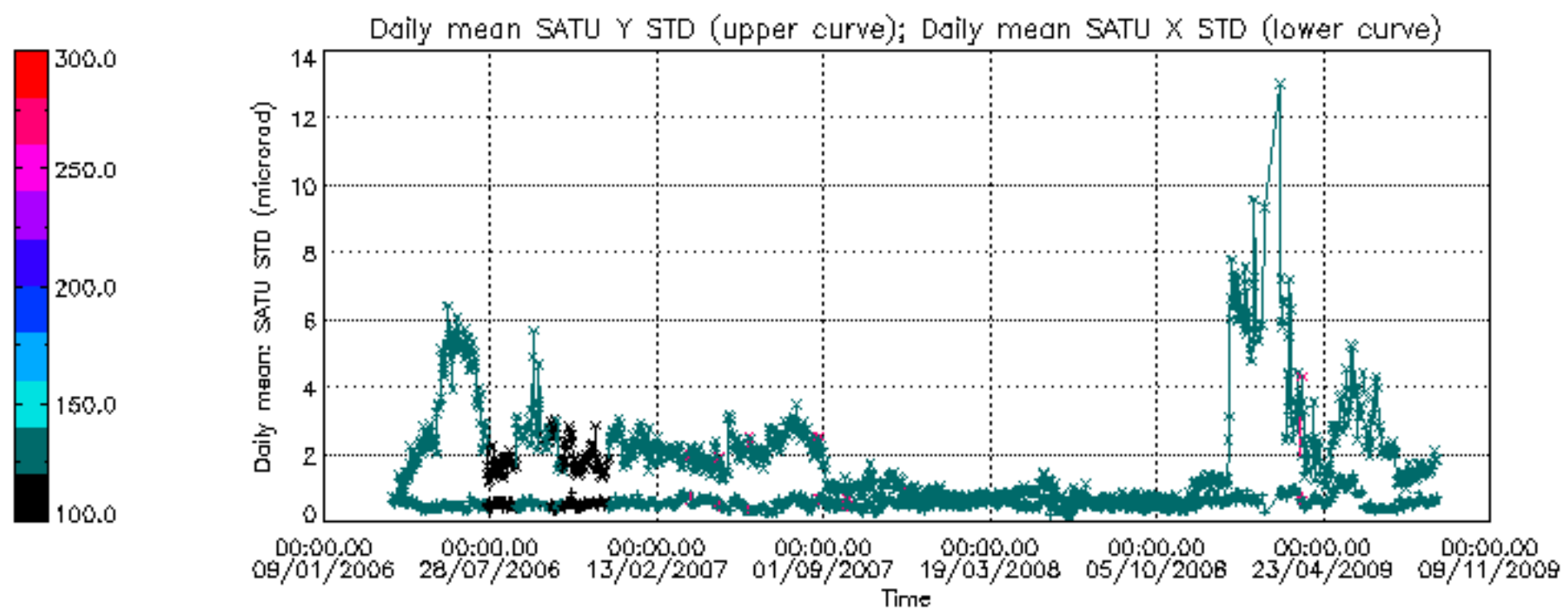


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_004836_000055572082_00102_39234_8472.N1

1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_022502_000042832082_00103_39235_8473.N1

1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_035024_000051962082_00104_39236_8474.N1

1; -1880.5; 01-SEP-2009 03:50:24; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39236
 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

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8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
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8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
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6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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 9; 4985.6; 13-SEP-2009 14:30:48; Dark ; 52.5; 8; 10Alp CMI ; 0.40; 6500;occ; 105; 0;39414
10; 5515.6; 13-SEP-2009 14:39:38; Dark ; 54.5; 1; 9Alp CMA ; -1.44; 11000;occ; 109; 0;39414
11; 5655.5; 13-SEP-2009 14:41:58; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;39414
12; 5874.9; 13-SEP-2009 14:45:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39414
13; 6000.2; 13-SEP-2009 14:47:43; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39414
14; 6729.0; 13-SEP-2009 14:59:52; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39414
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 1; 1522.5; 13-SEP-2009 15:13:41; Dark ; 57.5; 52; 16Bet Cet ; 2.04; 4500;occ; 115; 0;39415
 2; 2185.9; 13-SEP-2009 15:24:44; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;39415
 3; 2421.1; 13-SEP-2009 15:28:40; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;39415
 4; 2561.0; 13-SEP-2009 15:30:59; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39415
 5; 3042.8; 13-SEP-2009 15:39:01; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39415
 6; 3154.5; 13-SEP-2009 15:40:53; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;39415
 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
 8; 4477.4; 13-SEP-2009 16:02:56; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39415
 9; 4884.1; 13-SEP-2009 16:09:43; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;39415
10; 4986.2; 13-SEP-2009 16:11:25; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;39415
11; 5516.6; 13-SEP-2009 16:20:15; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39415
12; 5656.2; 13-SEP-2009 16:22:35; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;39415
13; 5875.9; 13-SEP-2009 16:26:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39415
14; 6001.3; 13-SEP-2009 16:28:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39415
15; 6730.2; 13-SEP-2009 16:40:29; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39415

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1;	1522.7;	13-SEP-2009	16:54:17;	Dark	;	59.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	118;	0;	39416
2;	2186.0;	13-SEP-2009	17:05:20;	Bright;	;	40.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	80;	0;	39416
3;	2420.7;	13-SEP-2009	17:09:15;	Bright;	;	42.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	85;	0;	39416
4;	2560.1;	13-SEP-2009	17:11:35;	Bright;	;	49.0;	58;	21Alp	And	;	2.07;	11000;	occ;	98;	0;	39416
5;	3042.4;	13-SEP-2009	17:19:37;	Bright;	;	42.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	84;	0;	39416
6;	3153.8;	13-SEP-2009	17:21:28;	Bright;	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39416
7;	4174.3;	13-SEP-2009	17:38:29;	Bright;	;	52.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	105;	0;	39416
8;	4477.3;	13-SEP-2009	17:43:32;	Bright;	;	43.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	86;	0;	39416
9;	4663.8;	13-SEP-2009	17:46:38;	Dark	;	58.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	116;	0;	39416
10;	4884.8;	13-SEP-2009	17:50:19;	Dark	;	56.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	112;	0;	39416
11;	4986.6;	13-SEP-2009	17:52:01;	Dark	;	53.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	106;	0;	39416
12;	5517.5;	13-SEP-2009	18:00:52;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	39416
13;	5656.9;	13-SEP-2009	18:03:11;	Dark	;	47.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	94;	0;	39416
14;	5876.8;	13-SEP-2009	18:06:51;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39416
15;	6002.5;	13-SEP-2009	18:08:57;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39416
16;	6731.3;	13-SEP-2009	18:21:06;	Dark	;	53.5;	157;	The1Eri		;	2.91;	9300;	occ;	107;	0;	39416

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1;	1522.8;	13-SEP-2009	18:34:53;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39417
2;	2185.5;	13-SEP-2009	18:45:56;	Bright;	;	50.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	100;	0;	39417
3;	2420.4;	13-SEP-2009	18:49:51;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39417
4;	2559.5;	13-SEP-2009	18:52:10;	Bright;	;	47.5;	58;	21Alp	And	;	2.07;	11000;	occ;	95;	0;	39417
5;	3041.8;	13-SEP-2009	19:00:12;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39417
6;	3153.0;	13-SEP-2009	19:02:03;	Bright;	;	44.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	88;	0;	39417
7;	4173.9;	13-SEP-2009	19:19:04;	Bright;	;	63.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	126;	0;	39417
8;	4477.4;	13-SEP-2009	19:24:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39417
9;	4664.3;	13-SEP-2009	19:27:15;	Dark	;	59.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	119;	0;	39417
10;	4885.5;	13-SEP-2009	19:30:56;	Dark	;	56.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	112;	0;	39417
11;	4987.2;	13-SEP-2009	19:32:38;	Dark	;	50.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	101;	0;	39417
12;	5518.5;	13-SEP-2009	19:41:29;	Dark	;	55.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	111;	0;	39417
13;	5657.7;	13-SEP-2009	19:43:48;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	39417
14;	5877.6;	13-SEP-2009	19:47:28;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39417
15;	6003.9;	13-SEP-2009	19:49:34;	Dark	;	49.5;	108;	Alp	Col	;	2.65;	15200;	occ;	99;	0;	39417
16;	6732.1;	13-SEP-2009	20:01:43;	Dark	;	55.0;	157;	The1Eri		;	2.91;	9300;	occ;	110;	0;	39417

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1;	-514.4;	14-SEP-2009	00:43:20;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	39420
2;	-375.8;	14-SEP-2009	00:45:38;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	39420
3;	-155.7;	14-SEP-2009	00:49:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39420
4;	-28.5;	14-SEP-2009	00:51:26;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39420
5;	699.4;	14-SEP-2009	01:03:33;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	39421
6;	1523.3;	14-SEP-2009	01:17:17;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39421
7;	2184.8;	14-SEP-2009	01:28:19;	Bright;	;	58.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	116;	0;	39421
8;	2419.2;	14-SEP-2009	01:32:13;	Bright;	;	40.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	80;	0;	39421
9;	2556.3;	14-SEP-2009	01:34:30;	Bright;	;	49.5;	58;	21Alp	And	;	2.07;	11000;	occ;	99;	0;	39421
10;	3040.1;	14-SEP-2009	01:42:34;	Bright;	;	37.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	74;	0;	39421
11;	3150.7;	14-SEP-2009	01:44:25;	Bright;	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39421
12;	4172.8;	14-SEP-2009	02:01:27;	Bright;	;	52.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	104;	0;	39421
13;	4478.1;	14-SEP-2009	02:06:32;	Bright;	;	44.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	89;	0;	39421
14;	4665.4;	14-SEP-2009	02:09:39;	Dark	;	63.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	126;	0;	39421
15;	4888.2;	14-SEP-2009	02:13:22;	Dark	;	40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	39421
16;	4989.0;	14-SEP-2009	02:15:03;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	39421

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1;	-513.6;	14-SEP-2009	02:23:56;	Dark	;	58.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	117;	0;	39421
2;	-375.1;	14-SEP-2009	02:26:15;	Dark	;	44.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	89;	0;	39421
3;	-154.8;	14-SEP-2009	02:29:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39421
4;	-27.3;	14-SEP-2009	02:32:03;	Dark	;	54.5;	108;	Alp	Col	;	2.65;	15200;	occ;	109;	0;	39421
5;	700.4;	14-SEP-2009	02:44:10;	Dark	;	54.0;	157;	The1Eri		;	2.91;	9300;	occ;	108;	0;	39422
6;	1523.6;	14-SEP-2009	02:57:53;	Dark	;	58.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	116;	0;	39422
7;	2184.5;	14-SEP-2009	03:08:54;	Bright;	;	41.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	82;	0;	39422
8;	2418.8;	14-SEP-2009	03:12:49;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39422
9;	2555.5;	14-SEP-2009	03:15:05;	Bright;	;	72.0;	58;	21Alp	And	;	2.07;	11000;	occ;	144;	0;	39422
10;	3039.6;	14-SEP-2009	03:23:09;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39422
11;	3150.2;	14-SEP-2009	03:25:00;	Bright;	;	42.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	85;	0;	39422

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1;	-1863.4;	14-SEP-2009	03:42:02;	Bright;	;	47.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	94;	0;	39422
2;	-1557.9;	14-SEP-2009	03:47:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39422
3;	-1370.3;	14-SEP-2009	03:50:16;	Dark	;	60.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	121;	0;	39422
4;	-1147.2;	14-SEP-2009	03:53:59;	Dark	;	32.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	64;	0;	39422

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5; -1046.4; 14-SEP-2009 03:55:39; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39422
6; -512.6; 14-SEP-2009 04:04:33; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39422
7; -374.4; 14-SEP-2009 04:06:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39422
8; -153.8; 14-SEP-2009 04:10:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39422
9; -26.2; 14-SEP-2009 04:12:40; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39422
10; 701.5; 14-SEP-2009 04:24:47; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39423
11; 1523.9; 14-SEP-2009 04:38:30; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39423
12; 2184.0; 14-SEP-2009 04:49:30; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39423
13; 2418.6; 14-SEP-2009 04:53:24; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;39423
14; 2554.9; 14-SEP-2009 04:55:41; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39423
15; 3038.9; 14-SEP-2009 05:03:45; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39423
16; 3149.5; 14-SEP-2009 05:05:35; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39423
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1; -1863.7; 14-SEP-2009 05:22:38; Bright; 47.0; 42; 34Bet Aur ; 1.90; 10200;occ; 94; 0;39423
2; -1557.7; 14-SEP-2009 05:27:44; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;39423
3; -1369.8; 14-SEP-2009 05:30:52; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39423
4; -1146.6; 14-SEP-2009 05:34:35; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39423
5; -1046.1; 14-SEP-2009 05:36:16; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39423
6; -511.6; 14-SEP-2009 05:45:10; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39423
7; -373.7; 14-SEP-2009 05:47:28; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39423
8; -152.9; 14-SEP-2009 05:51:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39423
9; -24.8; 14-SEP-2009 05:53:17; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39423
10; 702.3; 14-SEP-2009 06:05:24; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39424
11; 1523.9; 14-SEP-2009 06:19:06; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39424
12; 2183.9; 14-SEP-2009 06:30:06; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39424
13; 2284.9; 14-SEP-2009 06:31:47; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39424
14; 2418.3; 14-SEP-2009 06:34:00; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;39424
15; 2554.1; 14-SEP-2009 06:36:16; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39424
16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
17; 3148.9; 14-SEP-2009 06:46:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39424
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1; 1525.1; 14-SEP-2009 19:43:54; Dark ; 59.0; 52; 16Bet Cet ; 2.04; 4500;occ; 118; 0;39432
2; 2182.4; 14-SEP-2009 19:54:52; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39432
3; 2279.8; 14-SEP-2009 19:56:29; Bright; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;39432
4; 2416.0; 14-SEP-2009 19:58:45; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39432
5; 2548.0; 14-SEP-2009 20:00:57; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39432
6; 3034.7; 14-SEP-2009 20:09:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39432
7; 3144.4; 14-SEP-2009 20:10:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39432
8; 4479.4; 14-SEP-2009 20:33:09; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39432
9; 4669.2; 14-SEP-2009 20:36:18; Dark ; 66.0; 170; 27Eps Gem ; 3.00; 9700;occ; 132; 0;39432
10; 4994.9; 14-SEP-2009 20:41:44; Dark ; 56.0; 8; 10Alp CMI ; 0.40; 6500;occ; 112; 0;39432
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090914_205043_000055582082_00300_39432_8564.N1
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2; -366.3; 14-SEP-2009 20:52:59; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;39432
3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
4; -14.1; 14-SEP-2009 20:58:51; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39432
5; 711.7; 14-SEP-2009 21:10:57; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39433
6; 1525.1; 14-SEP-2009 21:24:30; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39433
7; 2182.2; 14-SEP-2009 21:35:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39433
8; 2279.0; 14-SEP-2009 21:37:04; Bright; 50.0; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39433
9; 2415.6; 14-SEP-2009 21:39:21; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39433
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 6; 3146.8; 14-SEP-2009 13:28:32; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39428
 7; 4170.8; 14-SEP-2009 13:45:36; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39428
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 9; 4478.9; 14-SEP-2009 15:31:20; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39429
 10; 4668.4; 14-SEP-2009 15:34:30; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39429
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 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429
 13; 5667.2; 14-SEP-2009 15:51:08; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;39429
 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
 15; 6018.2; 14-SEP-2009 15:57:00; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39429
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3; 2479.9; 22-SEP-2009 19:08:04; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;39546
4; 2987.5; 22-SEP-2009 19:16:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39546
5; 3083.7; 22-SEP-2009 19:18:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39546
6; 5062.8; 22-SEP-2009 19:51:06; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;39546
7; 5669.0; 22-SEP-2009 20:01:13; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39546
8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
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2; 2983.0; 23-SEP-2009 15:23:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39558
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2; 2204.5; 25-SEP-2009 22:30:24; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;39591
3; 2459.8; 25-SEP-2009 22:34:40; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;39591
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2; 2971.6; 26-SEP-2009 00:23:47; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;39592
3; 3061.3; 26-SEP-2009 00:25:17; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;39592
4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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5; 1547.3; 26-SEP-2009 01:40:39; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;39593
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9; 2971.2; 26-SEP-2009 02:04:23; Bright; 23.0; 74; 11Bet Cas ; 2.27; 6600;occ; 46; 0;39593
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5; 17.9; 26-SEP-2009 02:55:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39594
6; 202.0; 26-SEP-2009 02:58:49; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39594
7; 860.8; 26-SEP-2009 03:09:48; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;39594
8; 1547.7; 26-SEP-2009 03:21:15; Dark ; 38.5; 52; 16Bet Cet ; 2.04; 4500;occ; 77; 0;39594
9; 2203.4; 26-SEP-2009 03:32:11; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;39594
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5; 19.1; 26-SEP-2009 04:36:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39595
6; 203.6; 26-SEP-2009 04:39:27; Dark ; 25.5; 108; Alp Col ; 2.65; 15200;occ; 51; 0;39595
7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
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7; 862.6; 26-SEP-2009 06:31:02; Dark ; 1.5; 157; The1Eri ; 2.91; 9300;occ; 3; 0;39596
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11; 2712.6; 26-SEP-2009 07:01:52; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;39596
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9; 2704.0; 26-SEP-2009 23:47:42; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;39606
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11; 3055.6; 26-SEP-2009 23:53:34; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39606
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4; -208.9; 26-SEP-2009 07:53:46; Dark ; 20.5; 23; 21Eps CMA ; 1.50; 26000;occ; 41; 0;39596
5; 21.3; 26-SEP-2009 07:57:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39597
6; 206.2; 26-SEP-2009 08:00:41; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;39597
7; 864.1; 26-SEP-2009 08:11:39; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;39597
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4; 2970.0; 26-SEP-2009 08:46:45; Bright; 2.0; 74; 11Bet Cas ; 2.27; 6600;occ; 4; 0;39597
5; 3059.2; 26-SEP-2009 08:48:14; Bright; 23.5; 76; 27Gam Cas ; 2.30; 30000;occ; 47; 0;39597
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