

GOMOS Daily Report 08-OCT-2010

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	13OCT2010 04:54:50
Data source version	GOMOS/5.01
Start time of products	08OCT2010 00:02:04
Stop time of products	08OCT2010 23:58:31
Store outputs in DB	Yes
Nb of level 1b prods	76
Nb of prods with errors	1

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

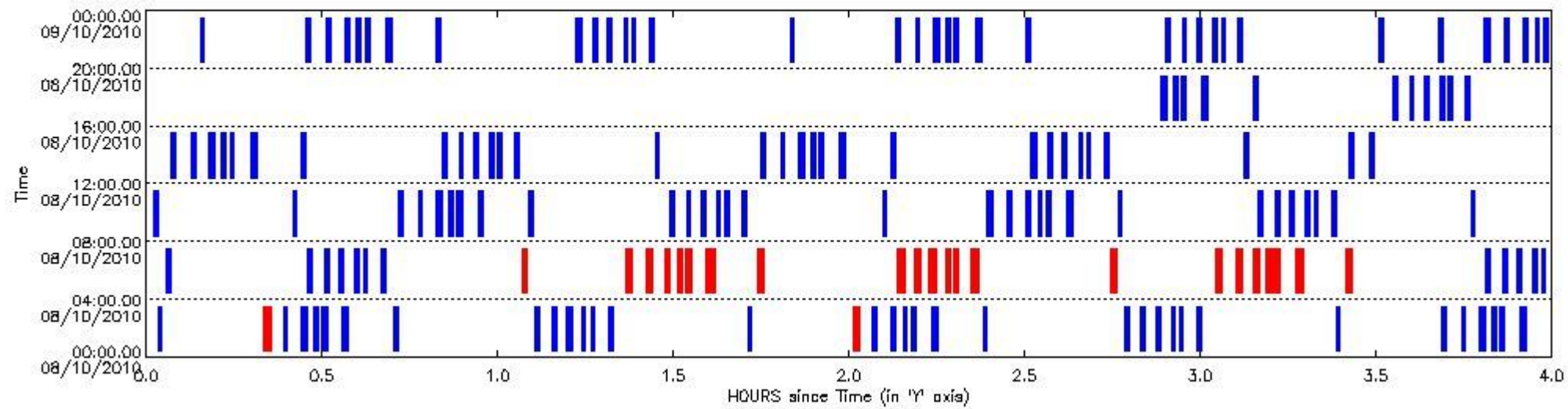
2.1 Level 0 products arrived in PCF (see template [here](#))

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
08-OCT-2010 00:20:04	15RhoPup	132	44988
08-OCT-2010 02:00:41	15RhoPup	132	44989
08-OCT-2010 05:04:05	17EpsLeo	166	44991
08-OCT-2010 05:21:55	15RhoPup	132	44991
08-OCT-2010 05:25:26	ZetPup	70	44991
08-OCT-2010 05:28:29	DSA1055	0	44992
08-OCT-2010 05:30:37	TauPup	161	44992
08-OCT-2010 05:32:01	AlpCar	2	44992
08-OCT-2010 05:35:30	AlpCol	108	44992
08-OCT-2010 05:44:15	The1Eri	157	44992
08-OCT-2010 06:08:19	6BetAri	105	44992
08-OCT-2010 06:11:13	43BetAnd	53	44992
08-OCT-2010 06:13:41	4BetTri	173	44992
08-OCT-2010 06:16:25	18AlpCas	68	44992
08-OCT-2010 06:17:50	27GamCas	76	44992

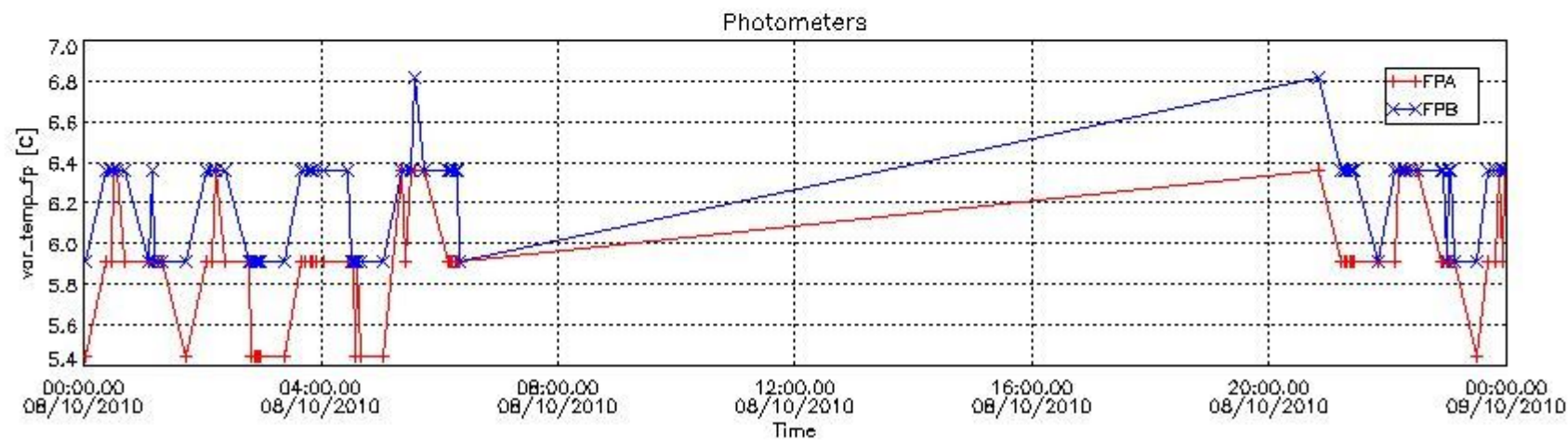
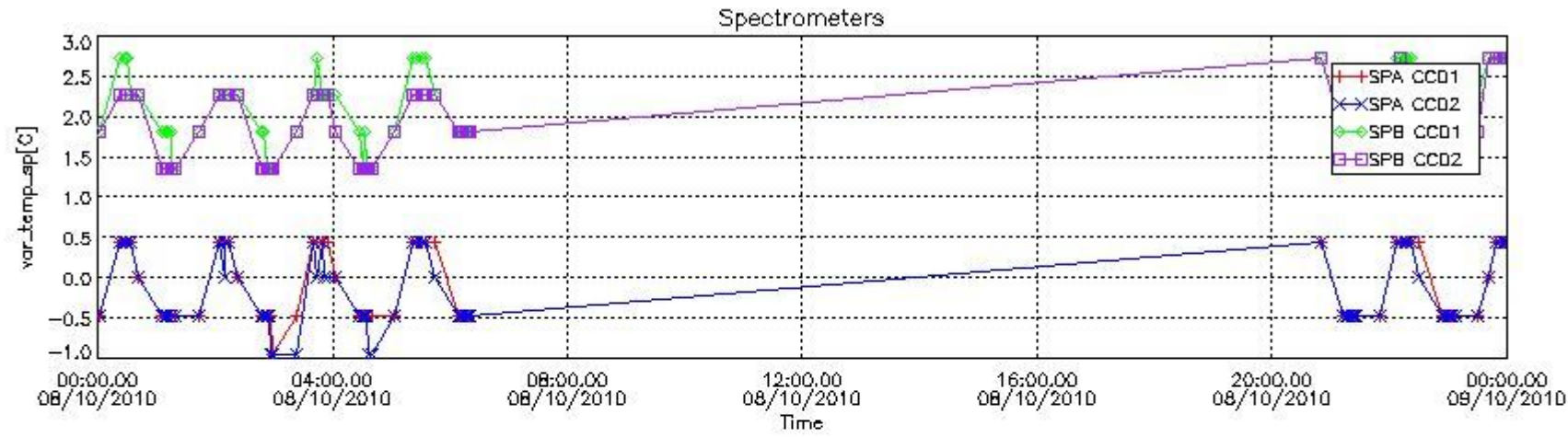
08-OCT-2010 06:20:49	23GamPer	160	44992
08-OCT-2010 06:44:41	17EpsLeo	166	44992
08-OCT-2010 07:02:32	15RhoPup	132	44992
08-OCT-2010 07:06:02	ZetPup	70	44992
08-OCT-2010 07:09:06	DSA1055	0	44993
08-OCT-2010 07:11:14	TauPup	161	44993
08-OCT-2010 07:12:37	AlpCar	2	44993
08-OCT-2010 07:16:08	AlpCol	108	44993
08-OCT-2010 07:24:52	The1Eri	157	44993

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_1PNPDE20101008_000204_000000382093_00345_44988_9671.N1	08-OCT-2010 00:02:04	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	44988	No
2	GOM_TRA_1PNPDE20101008_002322_000000442093_00345_44988_9685.N1	08-OCT-2010 00:23:22	Dark	43.500	70	Zet Pup	2.2460	39000.	87	44988	No
3	GOM_TRA_1PNPDE20101008_002834_000000432093_00346_44989_9686.N1	08-OCT-2010 00:28:34	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44989	No
4	GOM_TRA_1PNPDE20101008_002957_000000612093_00346_44989_9687.N1	08-OCT-2010 00:29:57	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	44989	No
5	GOM_TRA_1PNPDE20101008_003325_000000602093_00346_44989_9688.N1	08-OCT-2010 00:33:25	Dark	59.500	108	Alp Col	2.6520	15200.	119	44989	No
6	GOM_TRA_1PNPDE20101008_004213_000000482093_00346_44989_9689.N1	08-OCT-2010 00:42:13	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44989	No
7	GOM_TRA_1PNPDE20101008_010621_000000552093_00346_44989_9690.N1	08-OCT-2010 01:06:21	Bright	54.500	105	6Bet Ari	2.6450	8900.0	109	44989	No
8	GOM_TRA_1PNPDE20101008_010914_000000472093_00346_44989_9691.N1	08-OCT-2010 01:09:14	Bright	47.000	53	43Bet And	2.0480	3300.0	94	44989	No
9	GOM_TRA_1PNPDE20101008_011143_000000552093_00346_44989_9692.N1	08-OCT-2010 01:11:43	Bright	55.000	173	4Bet Tri	3.0040	8900.0	110	44989	No
10	GOM_TRA_1PNPDE20101008_011425_000000372093_00346_44989_9693.N1	08-OCT-2010 01:14:25	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	44989	No
11	GOM_TRA_1PNPDE20101008_011550_000000372093_00346_44989_9694.N1	08-OCT-2010 01:15:50	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	44989	No
12	GOM_TRA_1PNPDE20101008_011851_000000472093_00346_44989_9695.N1	08-OCT-2010 01:18:51	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	44989	No
13	GOM_TRA_1PNPDE20101008_014240_000000382093_00346_44989_9696.N1	08-OCT-2010 01:42:40	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	44989	No
14	GOM_TRA_1PNPDE20101008_020359_000000432093_00346_44989_9707.N1	08-OCT-2010 02:03:59	Dark	43.000	70	Zet Pup	2.2460	39000.	86	44989	No
15	GOM_TRA_1PNPDE20101008_020911_000000432093_00347_44990_9708.N1	08-OCT-2010 02:09:11	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	44990	No
16	GOM_TRA_1PNPDE20101008_021034_000000562093_00347_44990_9709.N1	08-OCT-2010 02:10:34	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	44990	No
17	GOM_TRA_1PNPDE20101008_021403_000000622093_00347_44990_9710.N1	08-OCT-2010 02:14:03	Dark	62.000	108	Alp Col	2.6520	15200.	124	44990	No
18	GOM_TRA_1PNPDE20101008_022249_000000462093_00347_44990_9711.N1	08-OCT-2010 02:22:49	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	44990	No
19	GOM_TRA_1PNPDE20101008_024656_000000552093_00347_44990_9712.N1	08-OCT-2010 02:46:56	Bright	54.500	105	6Bet Ari	2.6450	8900.0	109	44990	No
20	GOM_TRA_1PNPDE20101008_024950_000000432093_00347_44990_9713.N1	08-OCT-2010 02:49:50	Bright	43.000	53	43Bet And	2.0480	3300.0	86	44990	No
21	GOM_TRA_1PNPDE20101008_025218_000000532093_00347_44990_9714.N1	08-OCT-2010 02:52:18	Bright	52.500	173	4Bet Tri	3.0040	8900.0	105	44990	No
22	GOM_TRA_1PNPDE20101008_025501_000000372093_00347_44990_9715.N1	08-OCT-2010 02:55:01	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	44990	No
23	GOM_TRA_1PNPDE20101008_025625_000000372093_00347_44990_9716.N1	08-OCT-2010 02:56:25	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	44990	No
24	GOM_TRA_1PNPDE20101008_025926_000000482093_00347_44990_9717.N1	08-OCT-2010 02:59:26	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	44990	No
25	GOM_TRA_1PNPDE20101008_032316_000000382093_00347_44990_9726.N1	08-OCT-2010 03:23:16	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	44990	No
26	GOM_TRA_1PNPDE20101008_034105_000000482093_00347_44990_9727.N1	08-OCT-2010 03:41:05	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44990	No
27	GOM_TRA_1PNPDE20101008_034436_000000432093_00347_44990_9728.N1	08-OCT-2010 03:44:36	Dark	43.000	70	Zet Pup	2.2460	39000.	86	44990	No
28	GOM_TRA_1PNPDE20101008_034947_000000442093_00348_44991_9729.N1	08-OCT-2010 03:49:47	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44991	No
29	GOM_TRA_1PNPDE20101008_035111_000000452093_00348_44991_9730.N1	08-OCT-2010 03:51:11	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	44991	No
30	GOM_TRA_1PNPDE20101008_035440_000000612093_00348_44991_9731.N1	08-OCT-2010 03:54:40	Dark	60.500	108	Alp Col	2.6520	15200.	121	44991	No
31	GOM_TRA_1PNPDE20101008_040326_000000492093_00348_44991_9732.N1	08-OCT-2010 04:03:26	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44991	No
32	GOM_TRA_1PNPDE20101008_042732_000000542093_00348_44991_9733.N1	08-OCT-2010 04:27:32	Bright	53.500	105	6Bet Ari	2.6450	8900.0	107	44991	No
33	GOM_TRA_1PNPDE20101008_043025_000000422093_00348_44991_9734.N1	08-OCT-2010 04:30:25	Bright	42.000	53	43Bet And	2.0480	3300.0	84	44991	No
34	GOM_TRA_1PNPDE20101008_043253_000000542093_00348_44991_9735.N1	08-OCT-2010 04:32:53	Bright	53.500	173	4Bet Tri	3.0040	8900.0	107	44991	No
35	GOM_TRA_1PNPDE20101008_043537_000000412093_00348_44991_9736.N1	08-OCT-2010 04:35:37	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	44991	No
36	GOM_TRA_1PNPDE20101008_043701_000000392093_00348_44991_9737.N1	08-OCT-2010 04:37:01	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44991	No
37	GOM_TRA_1PNPDE20101008_044001_000000512093_00348_44991_9738.N1	08-OCT-2010 04:40:01	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	44991	No
38	GOM_TRA_1PNPDE20101008_050352_000000562093_00348_44991_9767.N1	08-OCT-2010 05:03:52	Bright	56.000	166	17Eps Leo	2.9800	6000.0	112	44991	No
39	GOM_TRA_1PNPDE20101008_052142_000000492093_00348_44991_9768.N1	08-OCT-2010 05:21:42	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	44991	No
40	GOM_TRA_1PNPDE20101008_052513_000000442093_00348_44991_9769.N1	08-OCT-2010 05:25:13	Dark	43.500	70	Zet Pup	2.2460	39000.	87	44991	No
41	GOM_TRA_1PNPDE20101008_053024_000000432093_00349_44992_9770.N1	08-OCT-2010 05:30:24	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44992	No
42	GOM_TRA_1PNPDE20101008_053148_000000572093_00349_44992_9771.N1	08-OCT-2010 05:31:48	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	44992	No
43	GOM_TRA_1PNPDE20101008_053518_000000602093_00349_44992_9772.N1	08-OCT-2010 05:35:18	Dark	60.000	108	Alp Col	2.6520	15200.	120	44992	No
44	GOM_TRA_1PNPDE20101008_054402_000000482093_00349_44992_9773.N1	08-OCT-2010 05:44:02	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44992	No
45	GOM_TRA_1PNPDE20101008_060807_000000552093_00349_44992_9774.N1	08-OCT-2010 06:08:07	Bright	54.500	105	6Bet Ari	2.6450	8900.0	109	44992	No

46	GOM_TRA_1PNPDE20101008_061101_000000442093_00349_44992_9775.N1	08-OCT-2010 06:11:01	Bright	43.500	53	43Bet And	2.0480	3300.0	87	44992	No
47	GOM_TRA_1PNPDE20101008_061328_000000532093_00349_44992_9776.N1	08-OCT-2010 06:13:28	Bright	53.000	173	4Bet Tri	3.0040	8900.0	106	44992	No
48	GOM_TRA_1PNPDE20101008_061612_000000402093_00349_44992_9777.N1	08-OCT-2010 06:16:12	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	44992	No
49	GOM_TRA_1PNPDE20101008_061737_000000392093_00349_44992_9778.N1	08-OCT-2010 06:17:37	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44992	No
50	GOM_TRA_1PNPDE20101008_062037_000000502093_00349_44992_9779.N1	08-OCT-2010 06:20:37	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	44992	No
51	GOM_TRA_1PNPDE20101008_204931_000000472093_00358_45001_9855.N1	08-OCT-2010 20:49:31	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45001	Yes
52	GOM_TRA_1PNPDE20101008_211322_000000522093_00358_45001_9856.N1	08-OCT-2010 21:13:22	Bright	52.000	105	6Bet Ari	2.6450	8900.0	104	45001	No
53	GOM_TRA_1PNPDE20101008_211619_000000432093_00358_45001_9857.N1	08-OCT-2010 21:16:19	Bright	43.000	53	43Bet And	2.0480	3300.0	86	45001	No
54	GOM_TRA_1PNPDE20101008_211843_000000522093_00358_45001_9858.N1	08-OCT-2010 21:18:43	Bright	51.500	173	4Bet Tri	3.0040	8900.0	103	45001	No
55	GOM_TRA_1PNPDE20101008_212133_000000402093_00358_45001_9859.N1	08-OCT-2010 21:21:33	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	45001	No
56	GOM_TRA_1PNPDE20101008_212257_000000382093_00358_45001_9860.N1	08-OCT-2010 21:22:57	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45001	No
57	GOM_TRA_1PNPDE20101008_212552_000000502093_00358_45001_9861.N1	08-OCT-2010 21:25:52	Bright	49.500	160	23Gam Per	2.9300	4700.0	99	45001	No
58	GOM_TRA_1PNPDE20101008_214953_000000382093_00358_45001_9862.N1	08-OCT-2010 21:49:53	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	45001	No
59	GOM_TRA_1PNPDE20101008_220751_000000502093_00358_45001_9891.N1	08-OCT-2010 22:07:51	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	45001	No
60	GOM_TRA_1PNPDE20101008_221120_000000422093_00358_45001_9892.N1	08-OCT-2010 22:11:20	Dark	41.500	70	Zet Pup	2.2460	39000.	83	45001	No
61	GOM_TRA_1PNPDE20101008_221631_000000432093_00359_45002_9893.N1	08-OCT-2010 22:16:31	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45002	No
62	GOM_TRA_1PNPDE20101008_221755_000000442093_00359_45002_9894.N1	08-OCT-2010 22:17:55	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	45002	No
63	GOM_TRA_1PNPDE20101008_222132_000000612093_00359_45002_9895.N1	08-OCT-2010 22:21:32	Dark	61.000	108	Alp Col	2.6520	15200.	122	45002	No
64	GOM_TRA_1PNPDE20101008_223008_000000472093_00359_45002_9896.N1	08-OCT-2010 22:30:08	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45002	No
65	GOM_TRA_1PNPDE20101008_225357_000000542093_00359_45002_9897.N1	08-OCT-2010 22:53:57	Bright	54.000	105	6Bet Ari	2.6450	8900.0	108	45002	No
66	GOM_TRA_1PNPDE20101008_225655_000000442093_00359_45002_9898.N1	08-OCT-2010 22:56:55	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45002	No
67	GOM_TRA_1PNPDE20101008_225917_000000532093_00359_45002_9899.N1	08-OCT-2010 22:59:17	Bright	52.500	173	4Bet Tri	3.0040	8900.0	105	45002	No
68	GOM_TRA_1PNPDE20101008_230209_000000362093_00359_45002_9900.N1	08-OCT-2010 23:02:09	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	45002	No
69	GOM_TRA_1PNPDE20101008_230333_000000412093_00359_45002_9901.N1	08-OCT-2010 23:03:33	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	45002	No
70	GOM_TRA_1PNPDE20101008_230627_000000492093_00359_45002_9902.N1	08-OCT-2010 23:06:27	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45002	No
71	GOM_TRA_1PNPDE20101008_233029_000000392093_00359_45002_9903.N1	08-OCT-2010 23:30:29	Bright	39.000	166	17Eps Leo	2.9800	6000.0	78	45002	No
72	GOM_TRA_1PNPDE20101008_234031_000000552093_00359_45002_9904.N1	08-OCT-2010 23:40:31	Twilight	55.000	48	30Alp Hya	1.9770	4100.0	110	45002	No
73	GOM_TRA_1PNPDE20101008_234828_000000532093_00359_45002_9911.N1	08-OCT-2010 23:48:28	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	45002	No
74	GOM_TRA_1PNPDE20101008_235157_000000442093_00359_45002_9912.N1	08-OCT-2010 23:51:57	Dark	44.000	70	Zet Pup	2.2460	39000.	88	45002	No
75	GOM_TRA_1PNPDE20101008_235708_000000432093_00360_45003_9913.N1	08-OCT-2010 23:57:08	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45003	No
76	GOM_TRA_1PNPDE20101008_235831_000000592093_00360_45003_9914.N1	08-OCT-2010 23:58:31	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	45003	No

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



4. Overview of dark signal processing per product

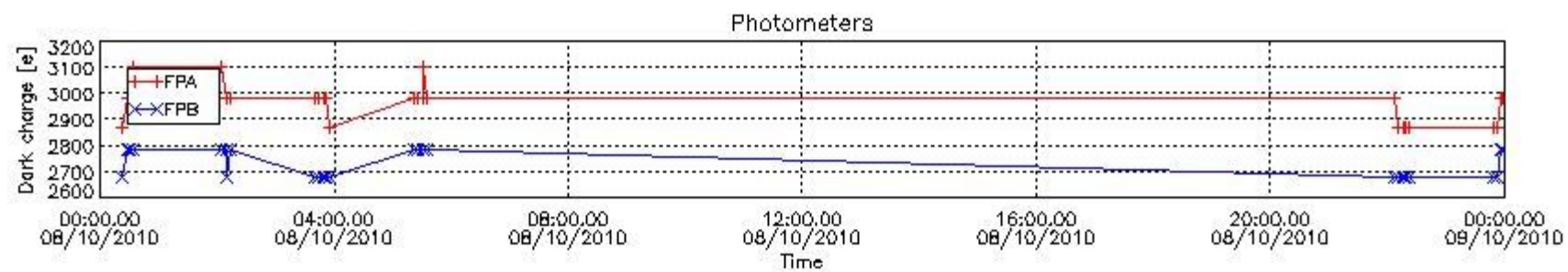
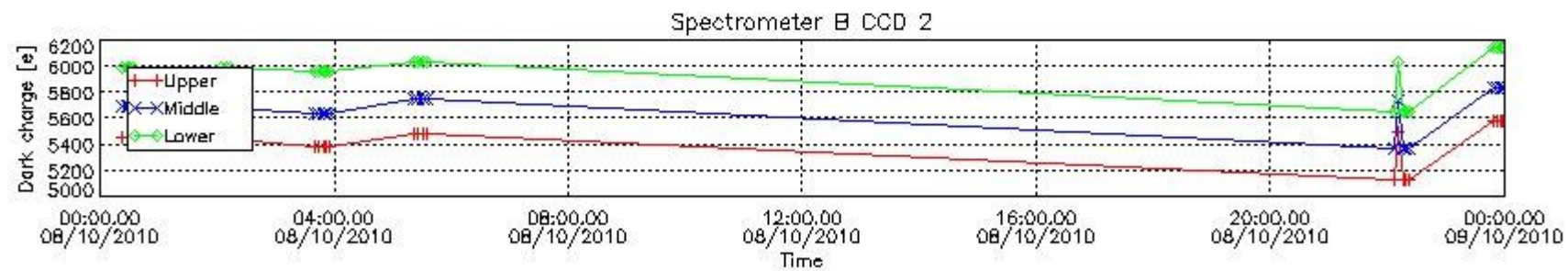
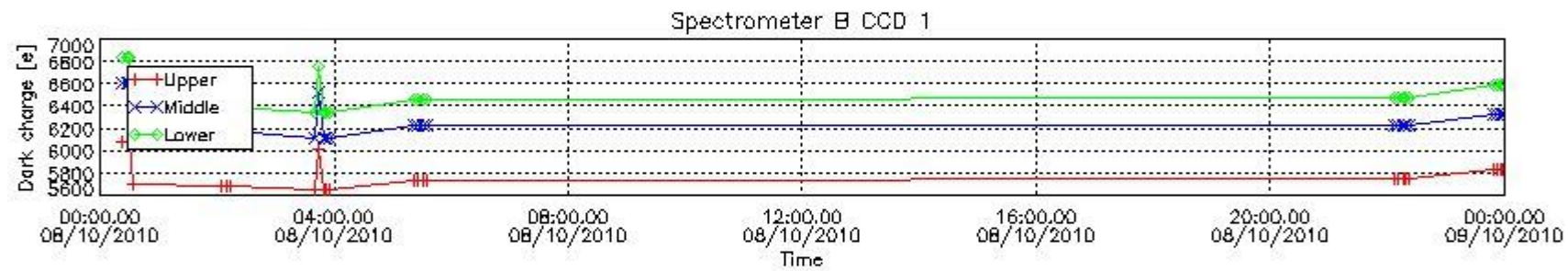
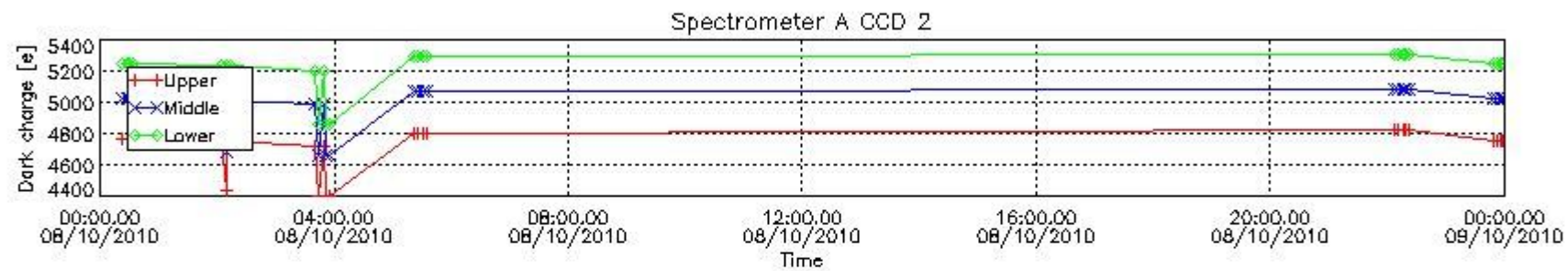
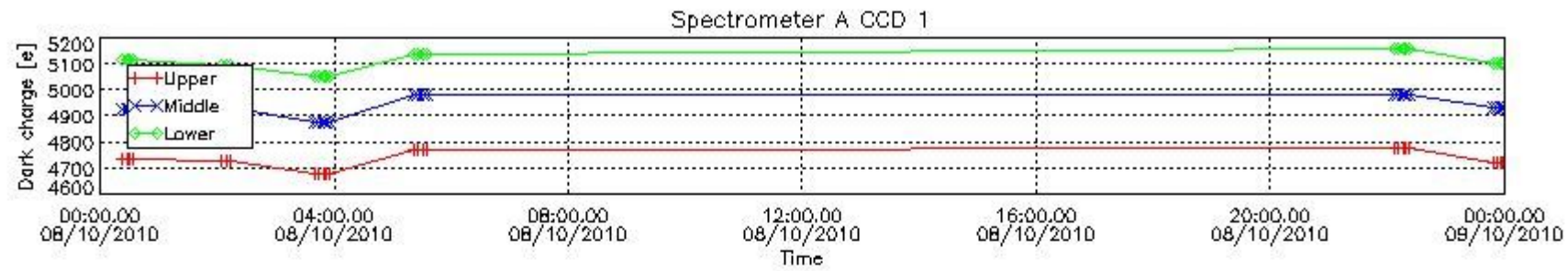
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101008_204931_000000472093_00358_45001_9855.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101008_211322_000000522093_00358_45001_9856.N1	DC map used
GOM_TRA_1PNPDE20101008_211619_000000432093_00358_45001_9857.N1	DC map used
GOM_TRA_1PNPDE20101008_211843_000000522093_00358_45001_9858.N1	DC map used
GOM_TRA_1PNPDE20101008_212133_000000402093_00358_45001_9859.N1	DC map used
GOM_TRA_1PNPDE20101008_212257_000000382093_00358_45001_9860.N1	DC map used
GOM_TRA_1PNPDE20101008_212552_000000502093_00358_45001_9861.N1	DC map used
GOM_TRA_1PNPDE20101008_214953_000000382093_00358_45001_9862.N1	DC map used

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



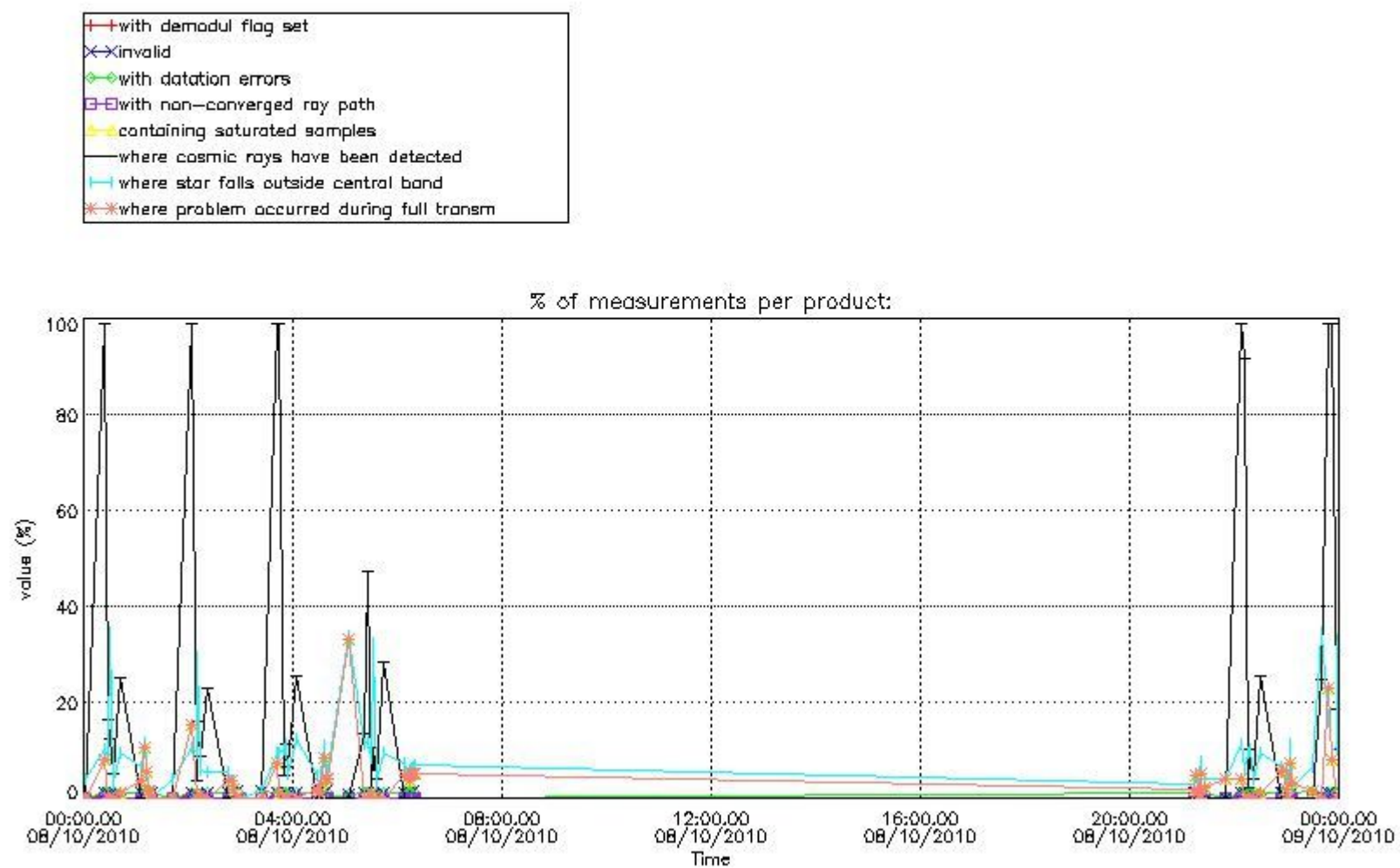
5. Demodulation flag and quality information monitoring

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.

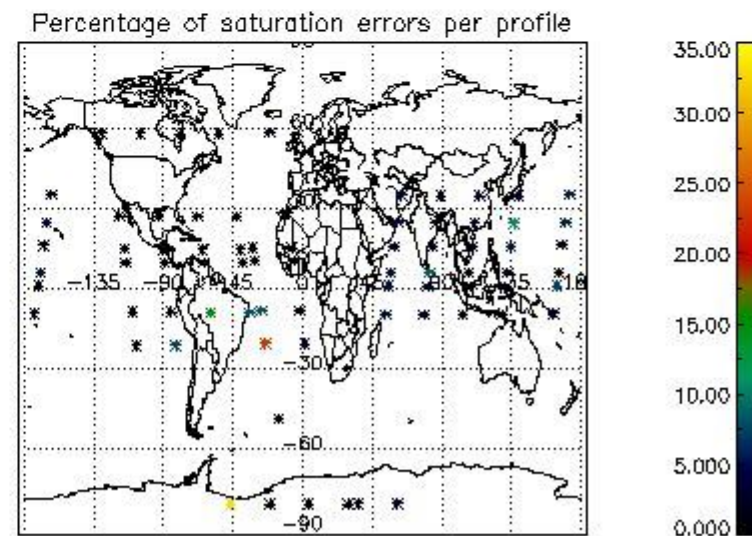
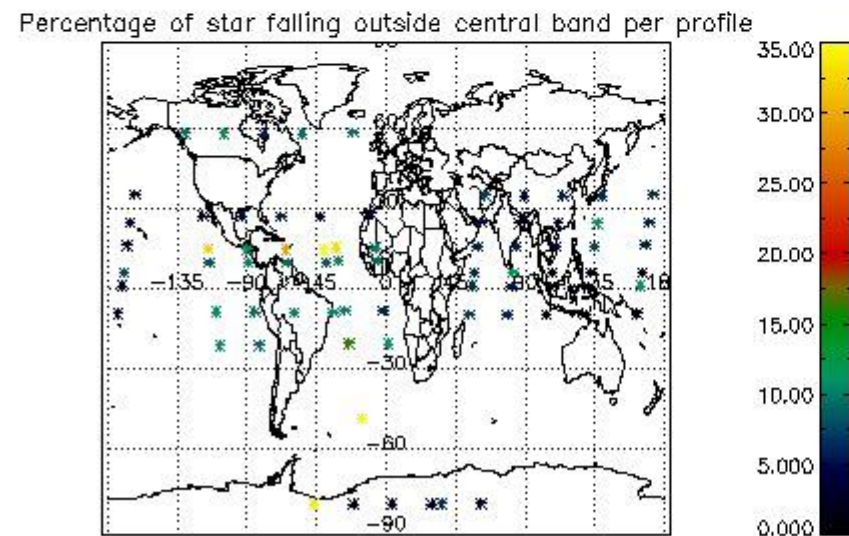
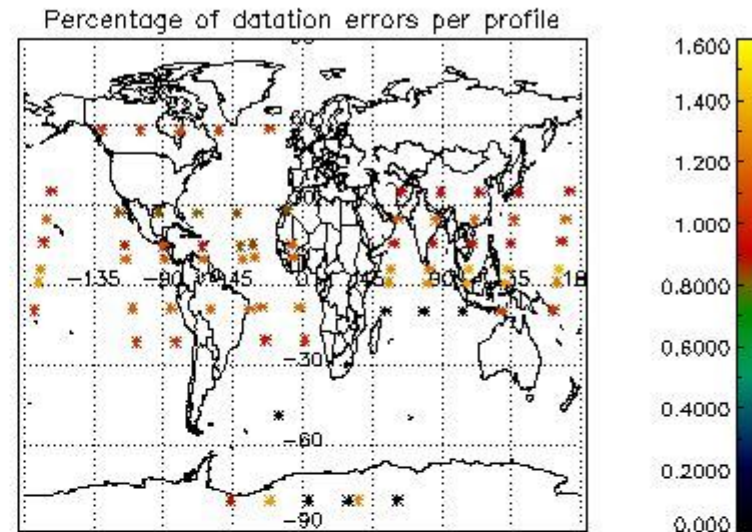
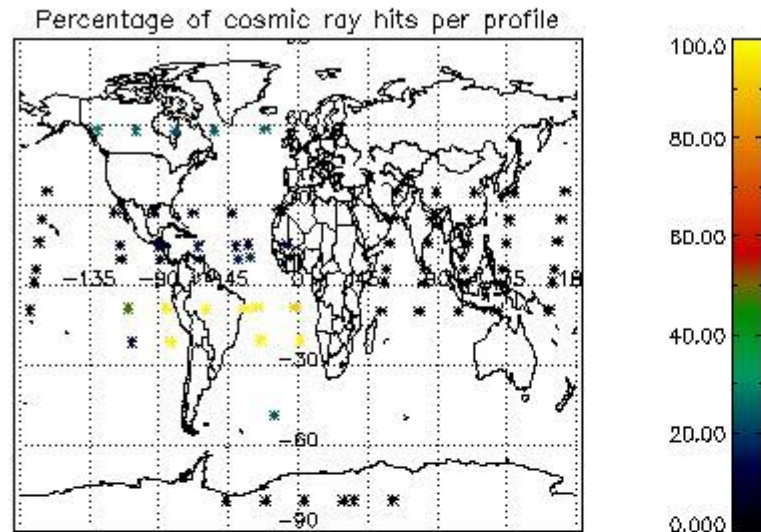
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.6667 %
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)



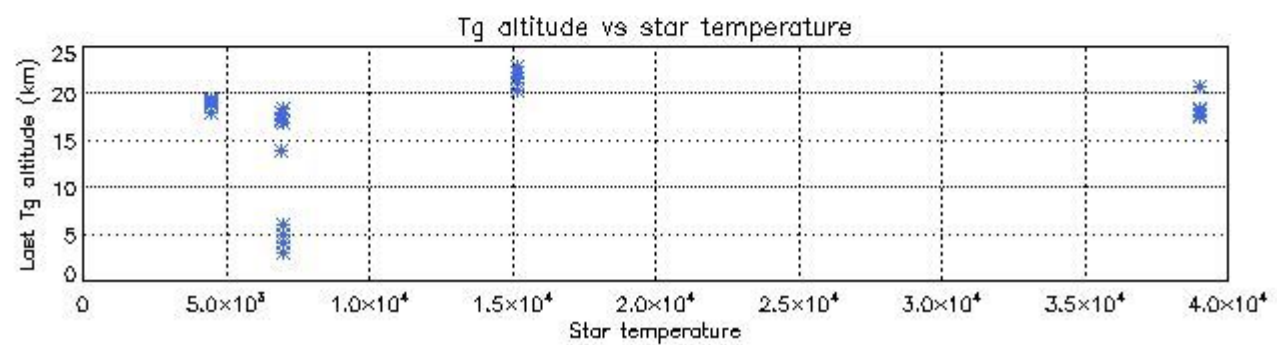
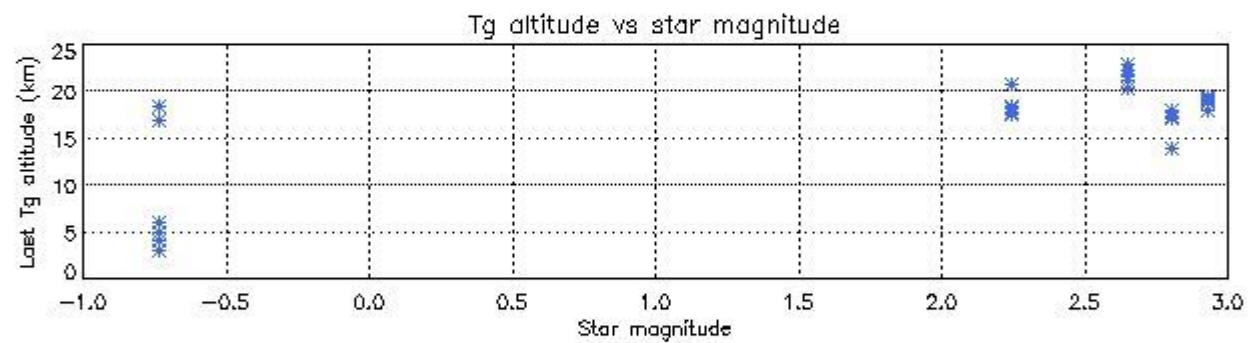
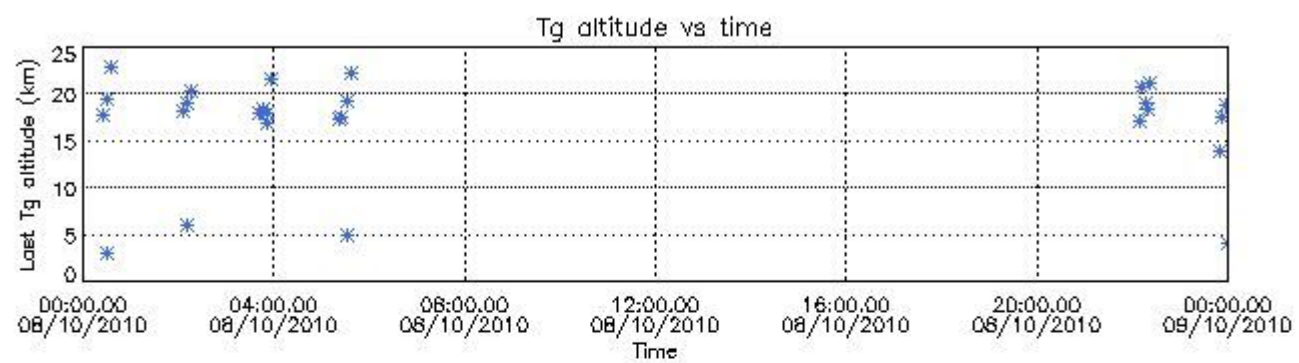
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.698	22.095	5.8319
St. deviation:	5.5327	3.7337	0.0000
Maximum:	22.785	27.993	5.8319
Minimum:	2.9228	4.5153	5.8319
Number of data:	27.000	42.000	1.0000

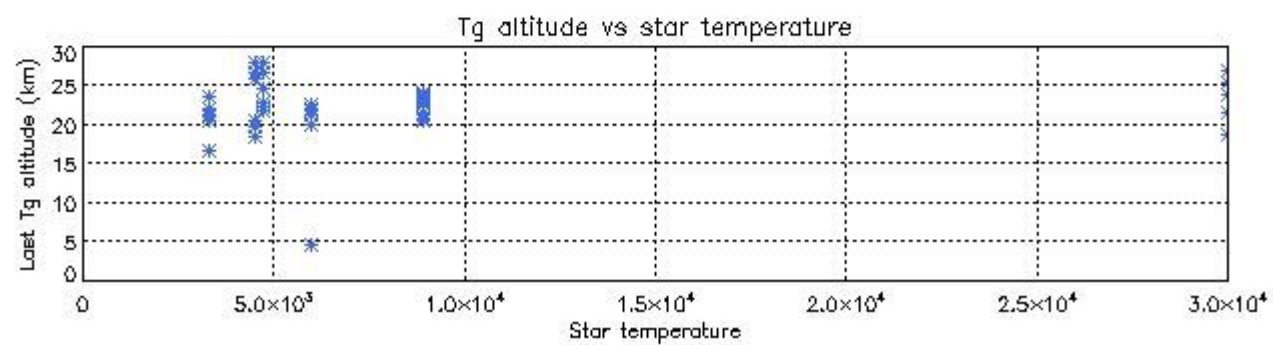
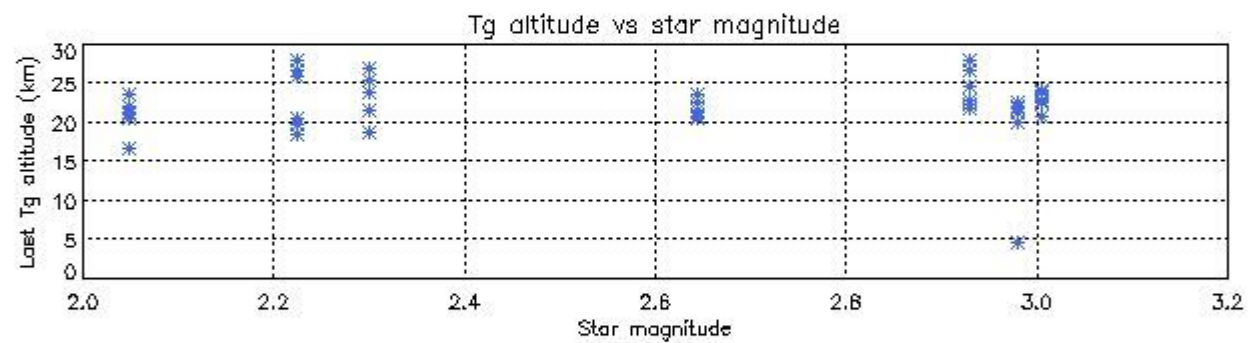
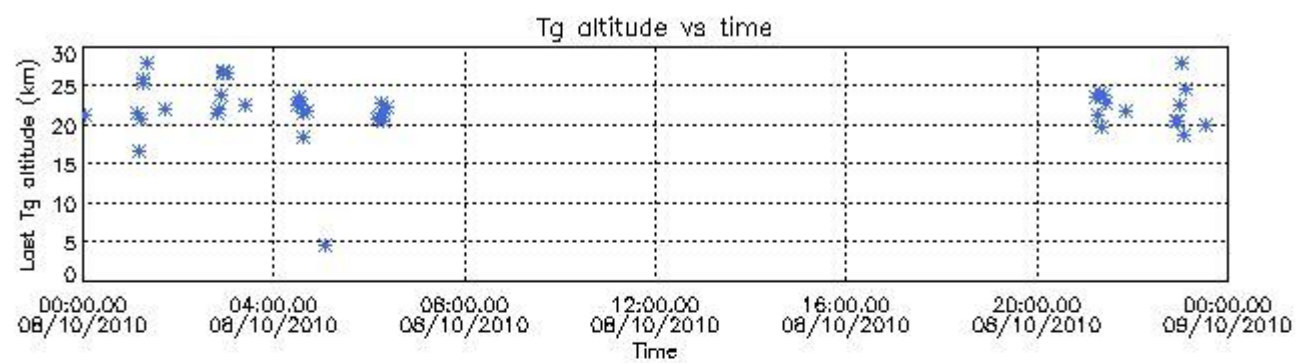
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



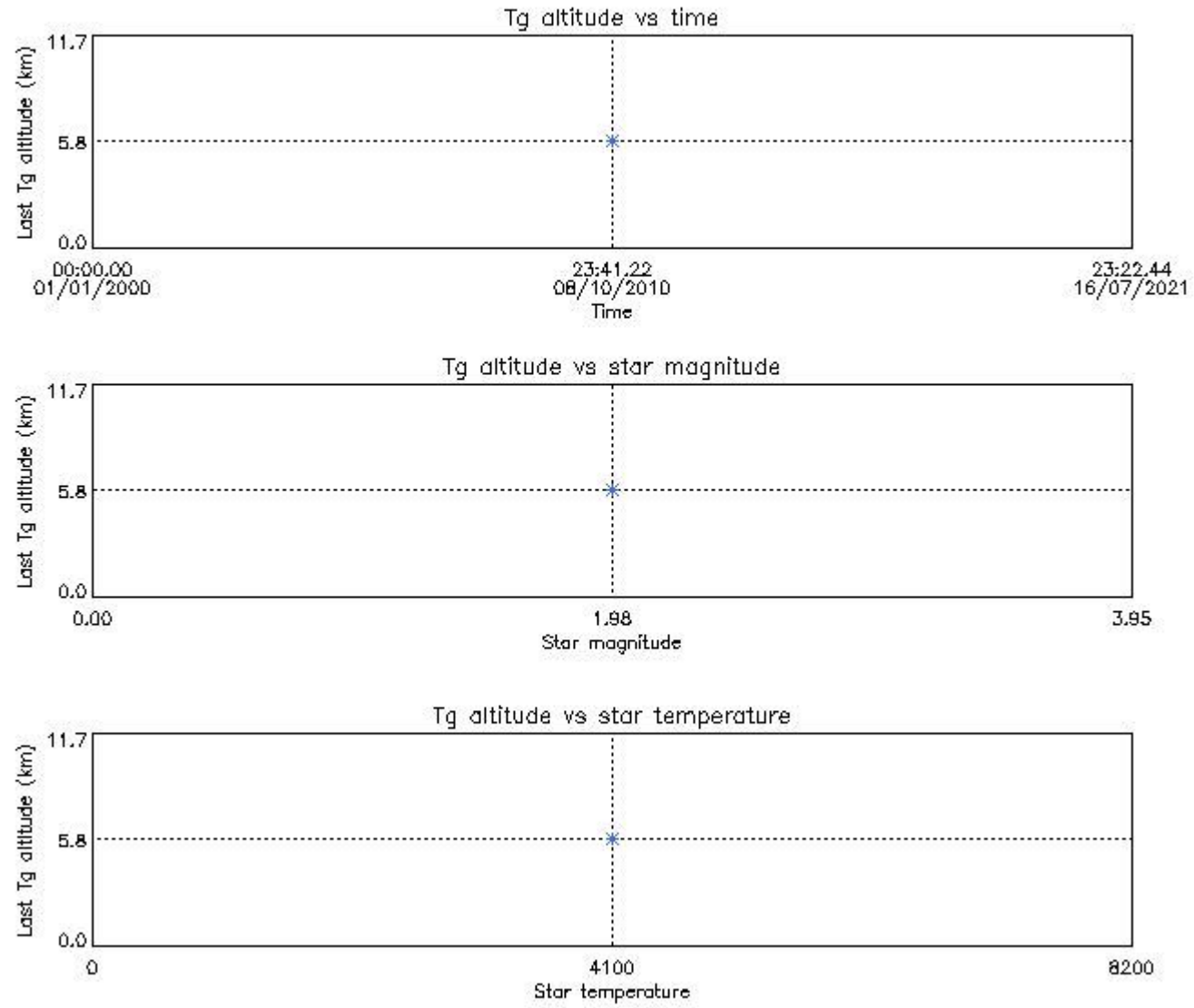
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

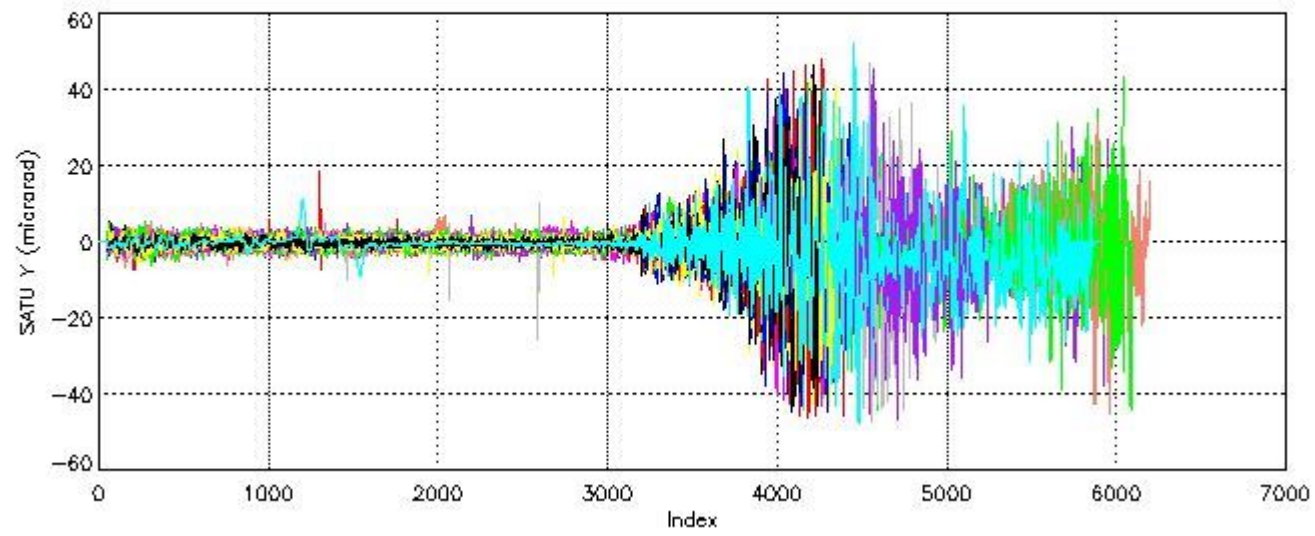
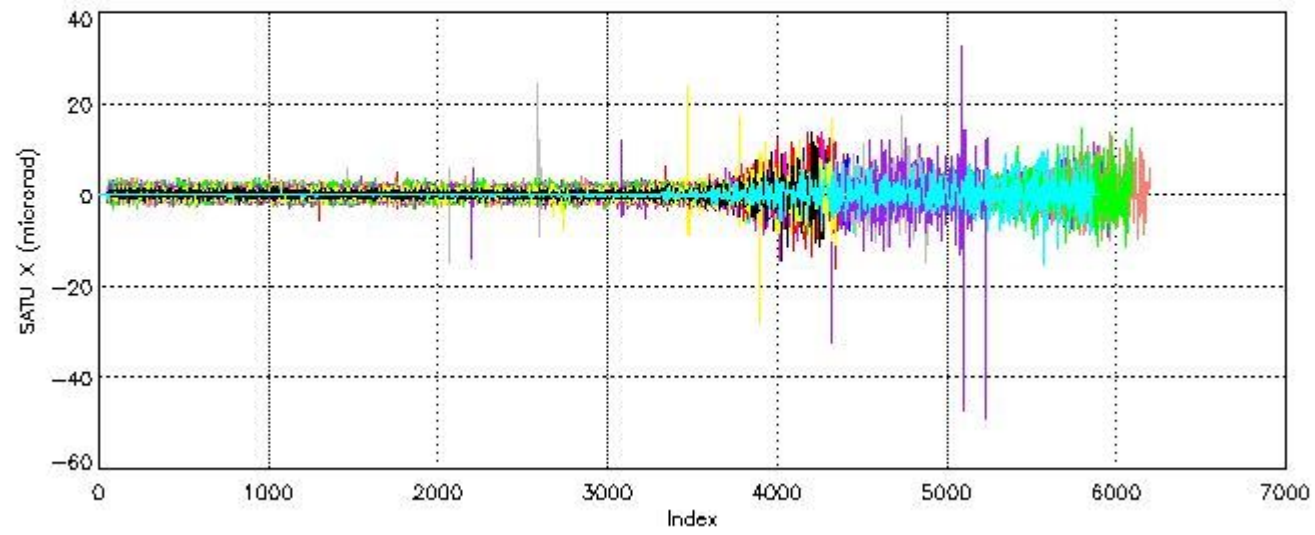


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22879	-0.30517	0.20886	-0.32557
St. deviation:	0.62988	1.1223	0.85203	1.2758
Maximum:	3.7000	5.5000	5.8000	6.1000
Minimum:	-2.8000	-7.6000	-5.6000	-8.2000

Number of data:	29450.	29450.	47800.	47800.
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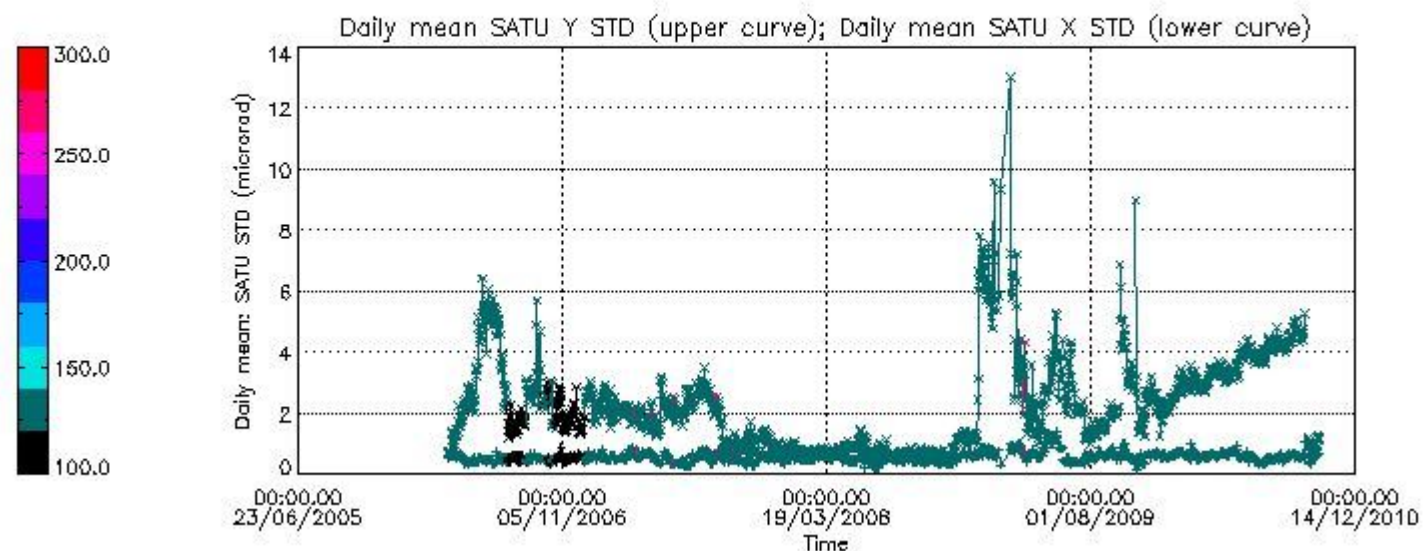
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

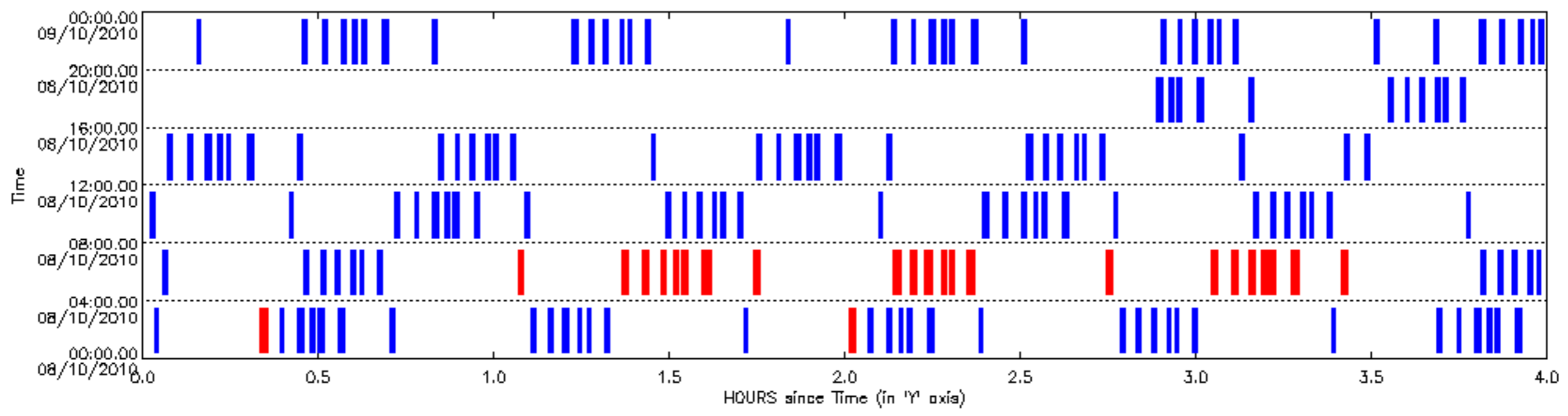
Lower curve: STD of SATU X axis

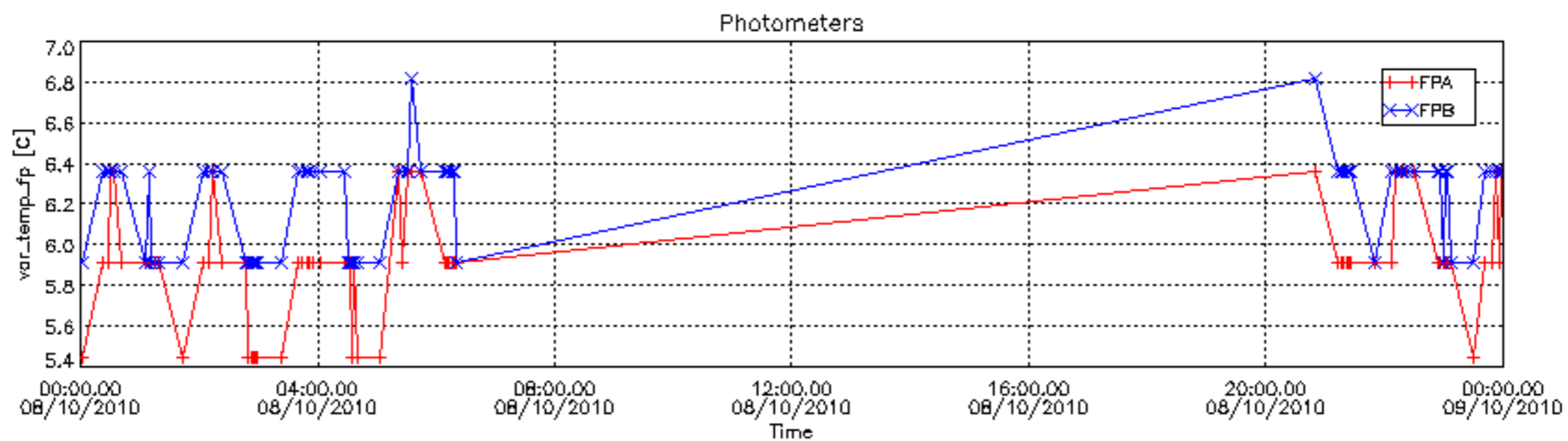
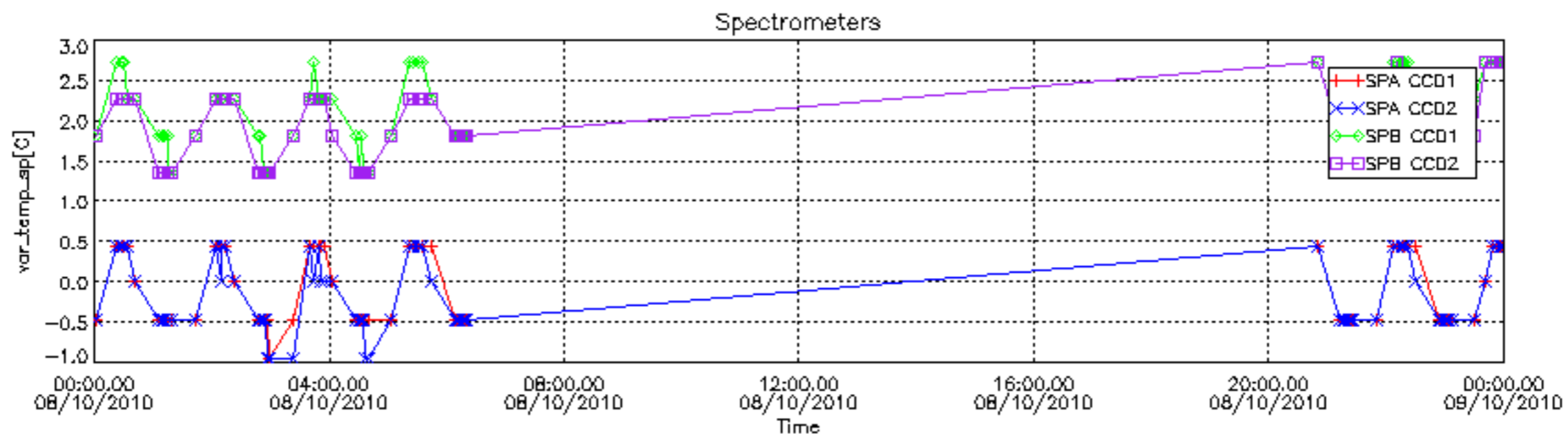


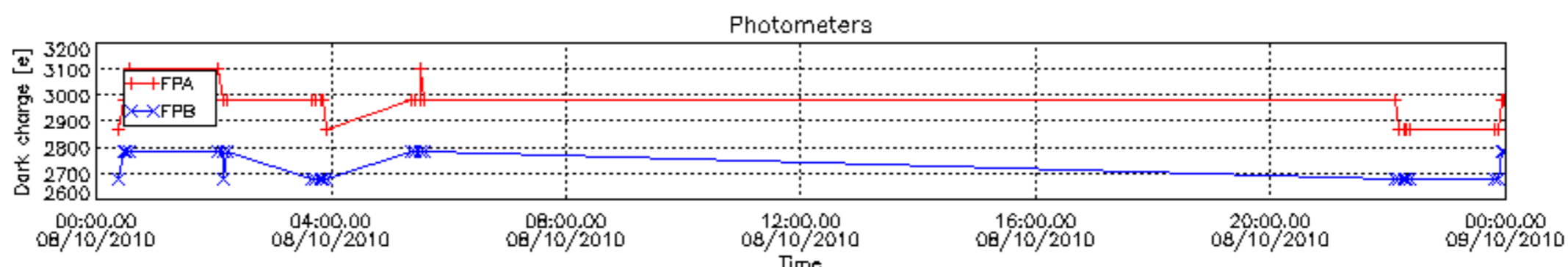
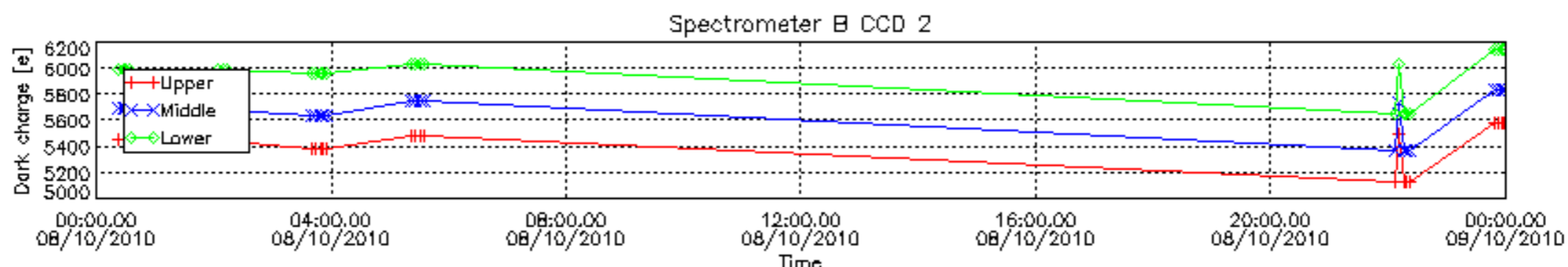
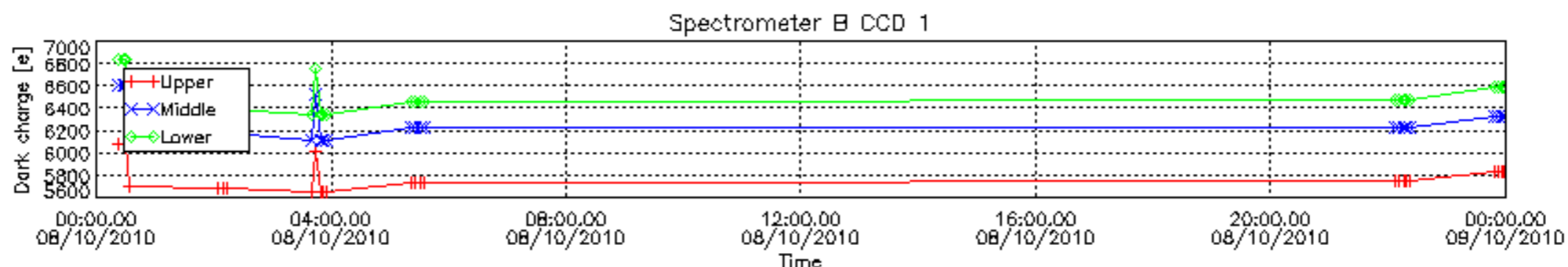
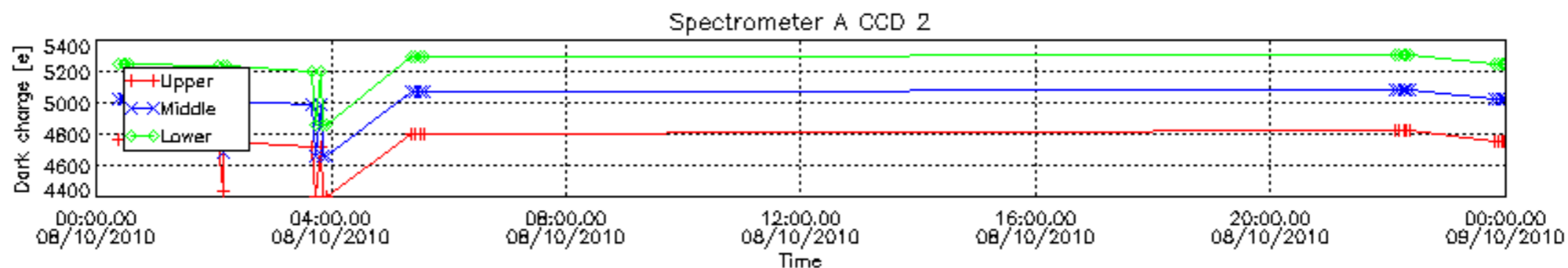
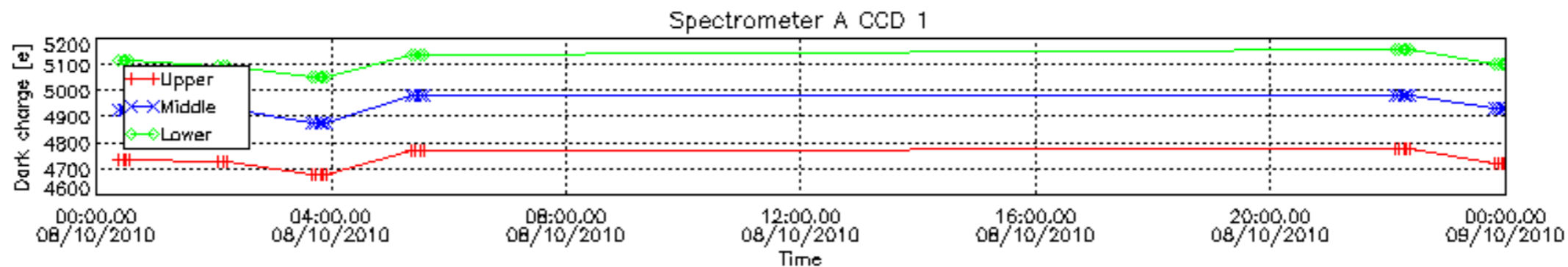
8. Auxiliary Data Files used for the production reported in section 2.4

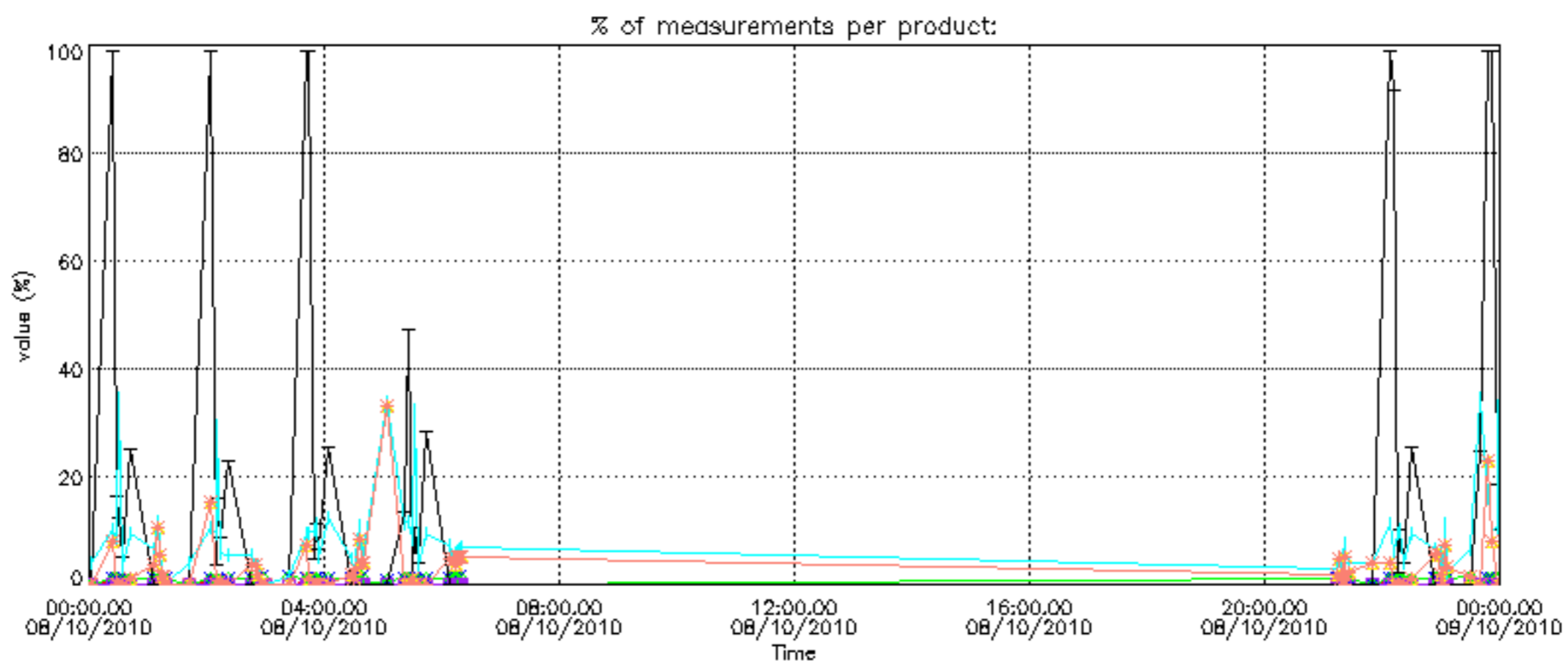
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-OCT-2010 00:02:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	08-OCT-2010 00:02:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	08-OCT-2010 00:02:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-OCT-2010 00:02:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	08-OCT-2010 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20101007_054112_20101007_210000_20101008_090000	1	08-OCT-2010 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20101007_171207_20101008_030000_20101008_150000	25	08-OCT-2010 03:23:16
ECMWF_FILE	AUX_ECF_AXNECM20101008_054114_20101008_150000_20101009_030000	51	08-OCT-2010 20:49:31
ECMWF_FILE	AUX_ECF_AXNECM20101008_054114_20101008_210000_20101009_090000	59	08-OCT-2010 22:07:51
OPTIONAL_ECMWF_FILE	MISSING	1	08-OCT-2010 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_223056_000057382093_00344_44987_1217.N1	1	08-OCT-2010 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_001153_000054192093_00345_44988_1218.N1	2	08-OCT-2010 00:23:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_014731_000041442093_00346_44989_1219.N1	14	08-OCT-2010 02:03:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101007_101104_20101006_195542_20101016_212153	25	08-OCT-2010 03:23:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_044251_000057382093_00348_44991_1221.N1	38	08-OCT-2010 05:03:52
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101008_092113_20101007_192405_20101017_205016	51	08-OCT-2010 20:49:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_215855_000057382093_00358_45001_1223.N1	59	08-OCT-2010 22:07:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_233952_000057382093_00359_45002_1224.N1	73	08-OCT-2010 23:48:28

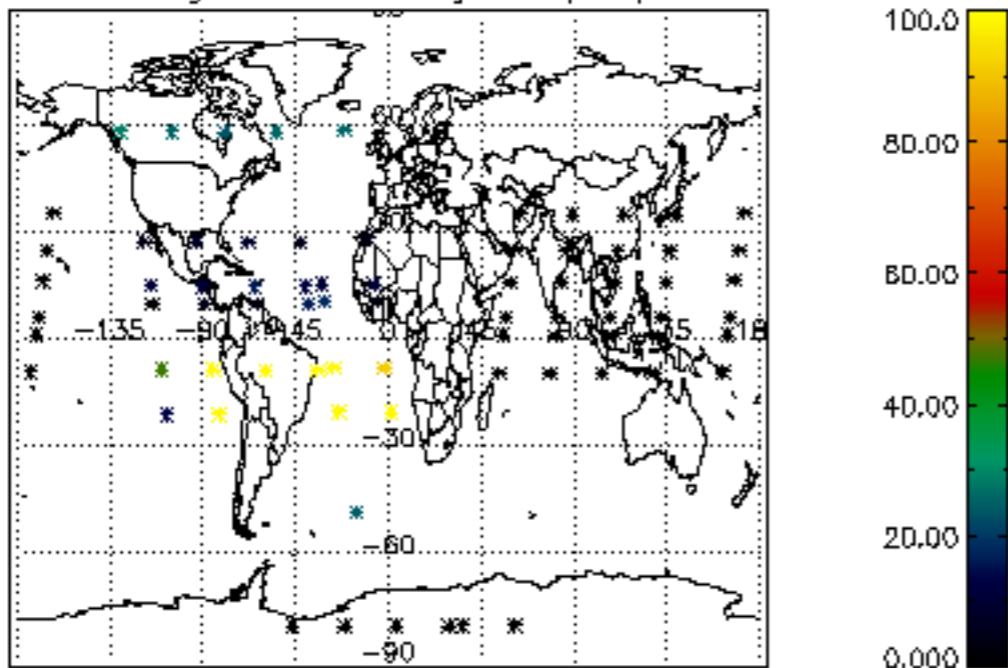




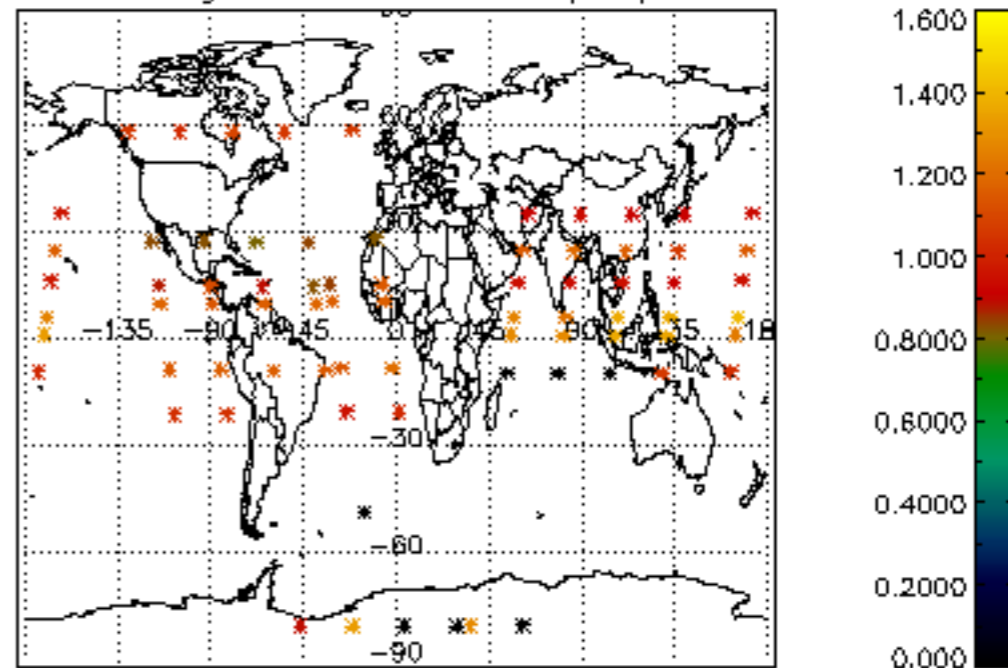




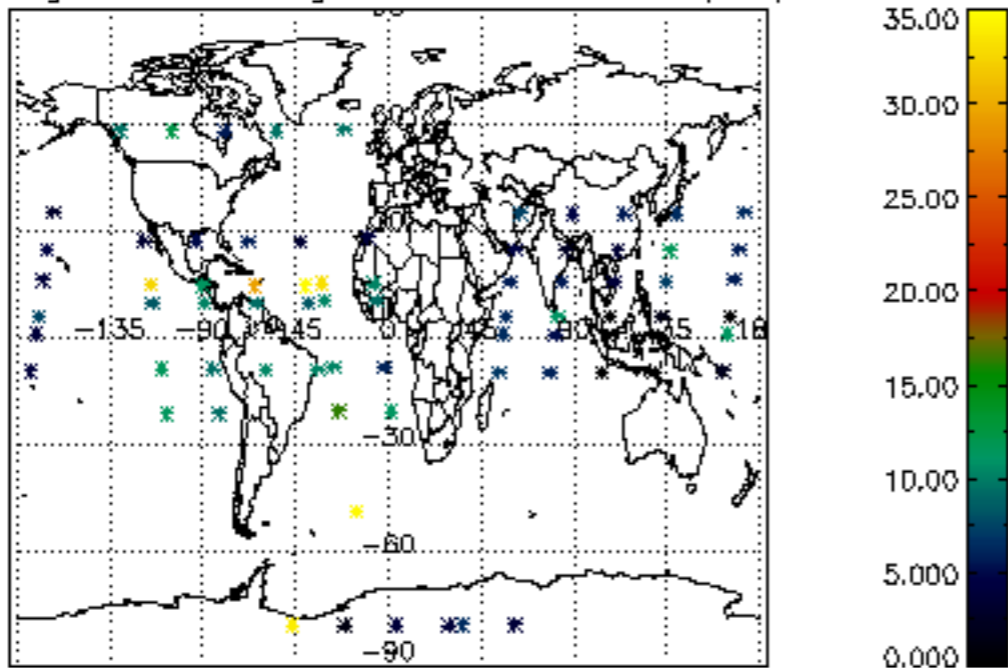
Percentage of cosmic ray hits per profile



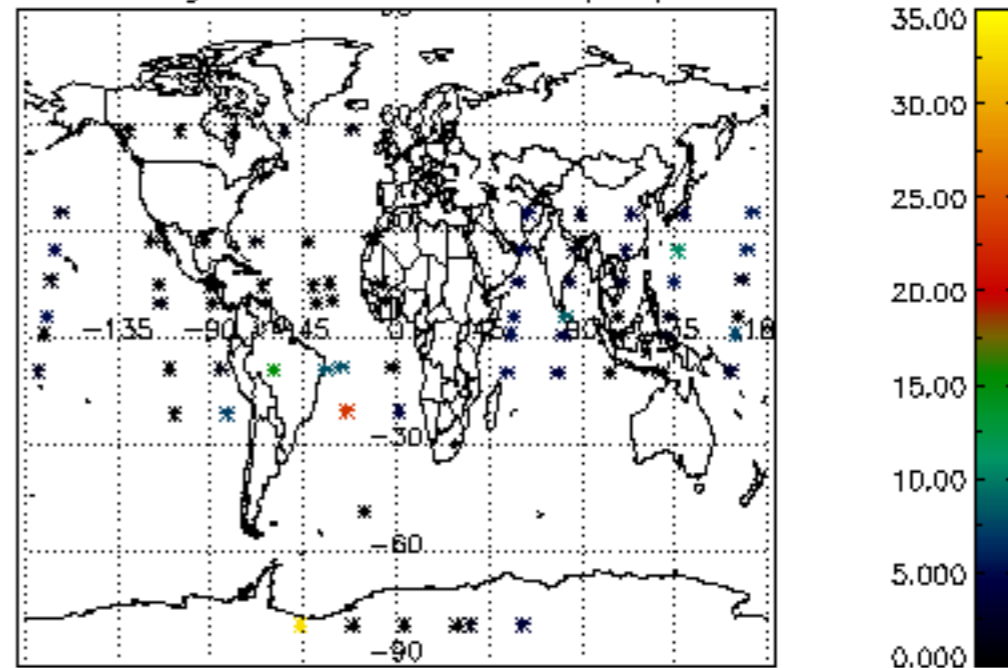
Percentage of datation errors per profile



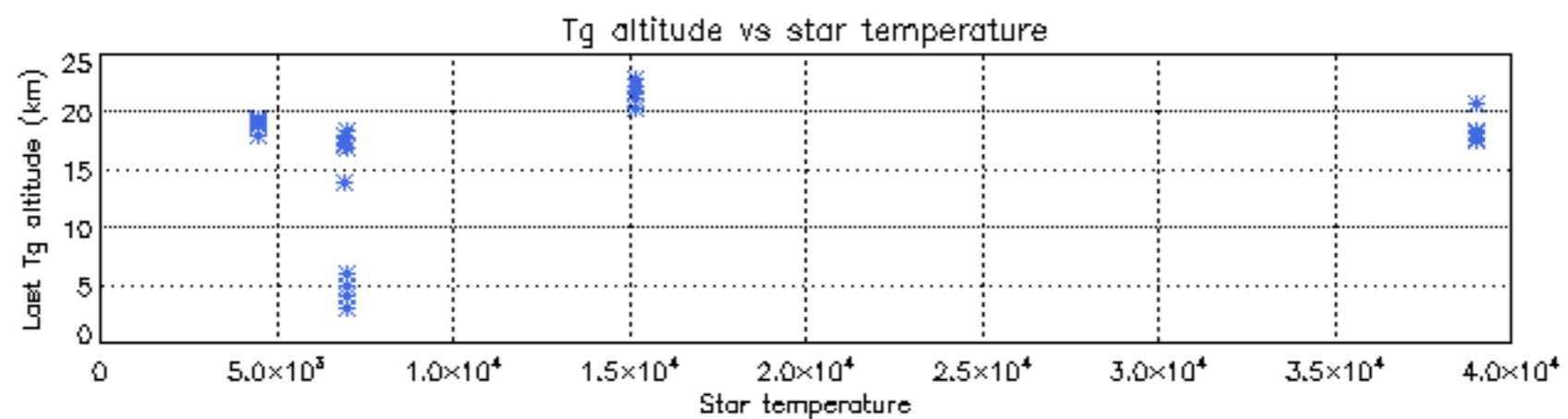
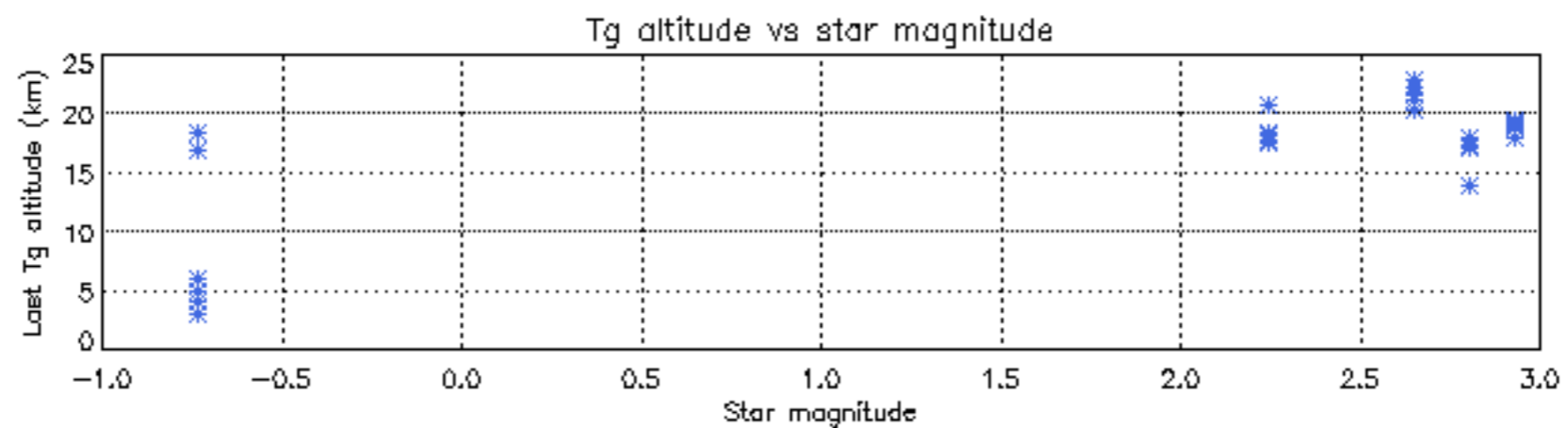
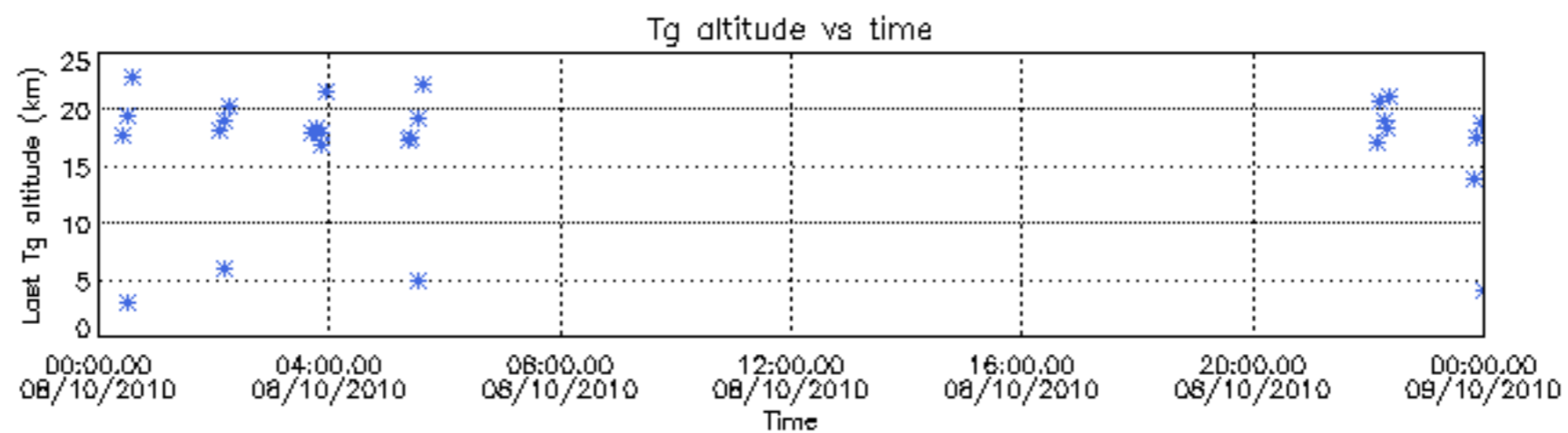
Percentage of star falling outside central band per profile



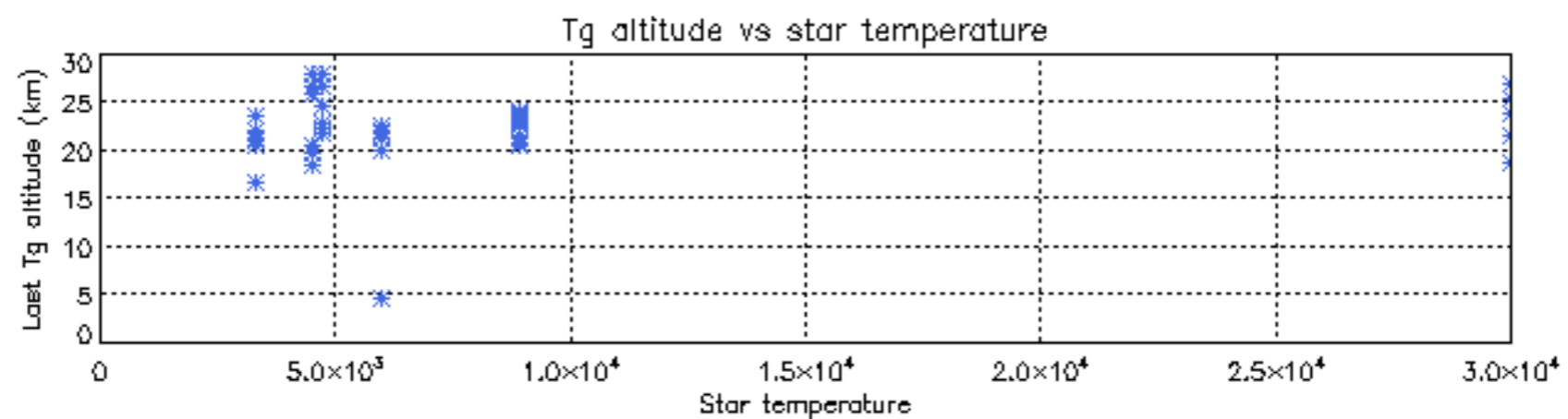
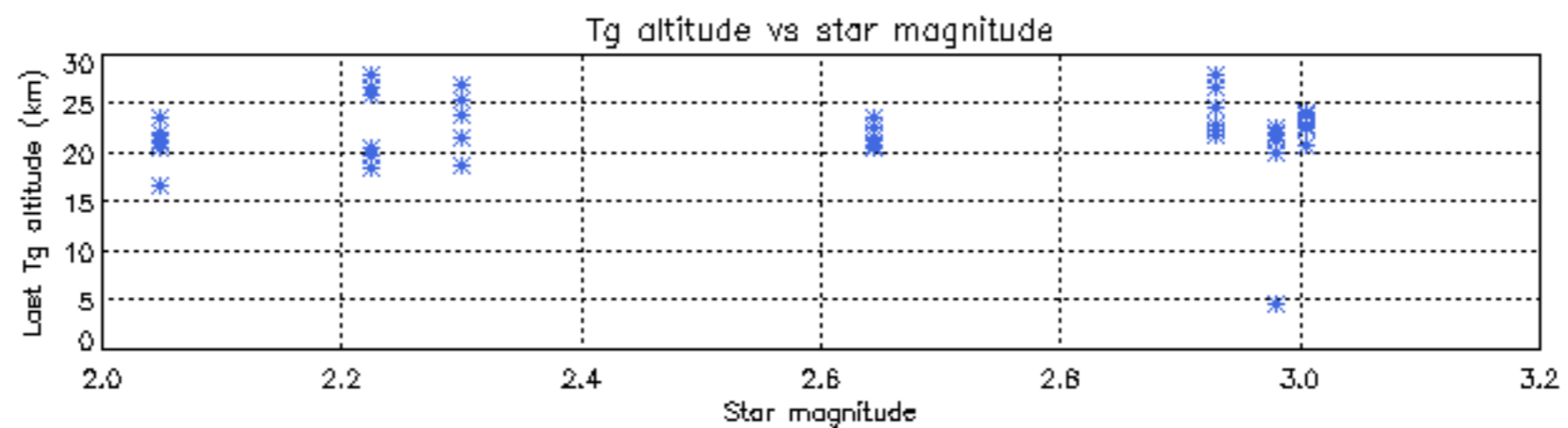
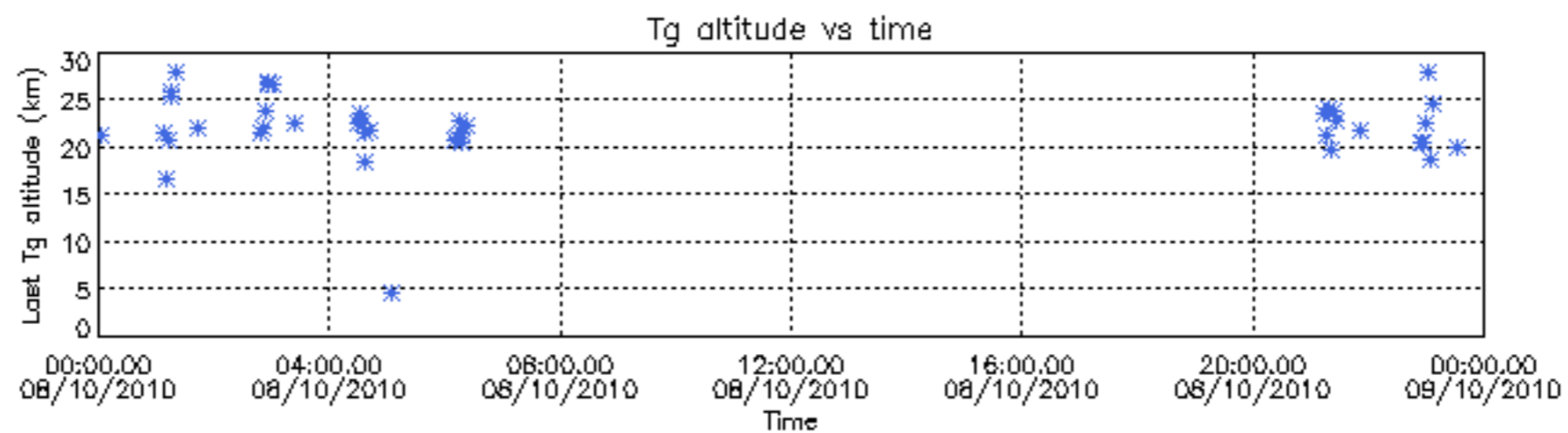
Percentage of saturation errors per profile



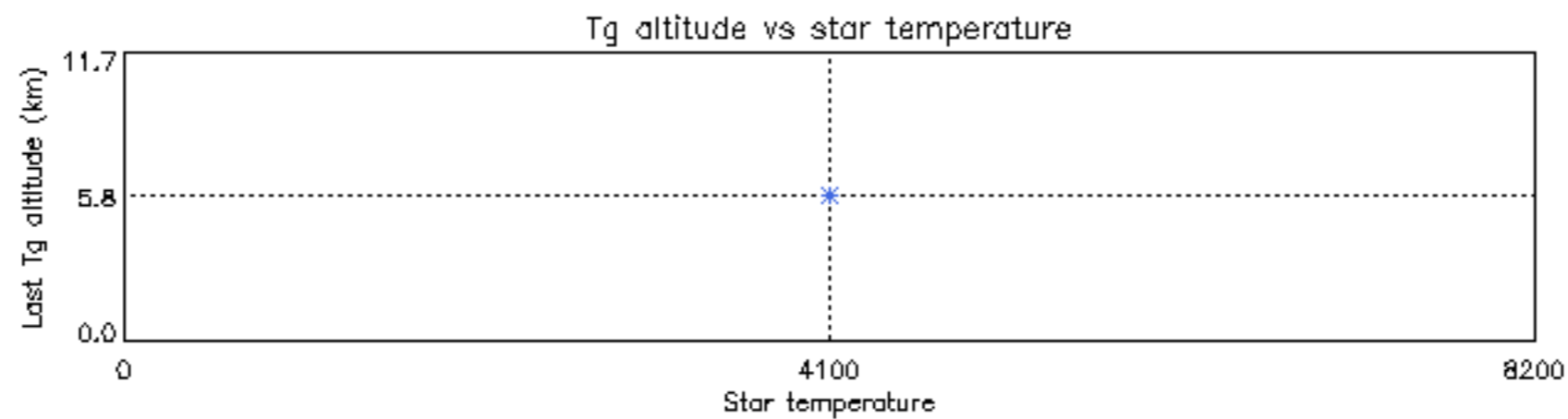
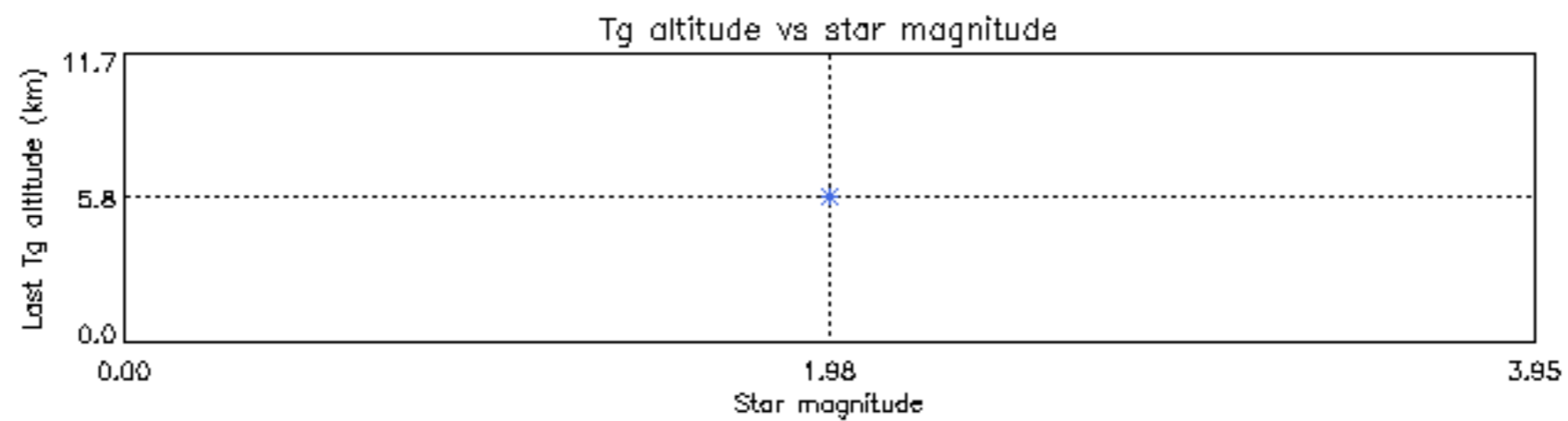
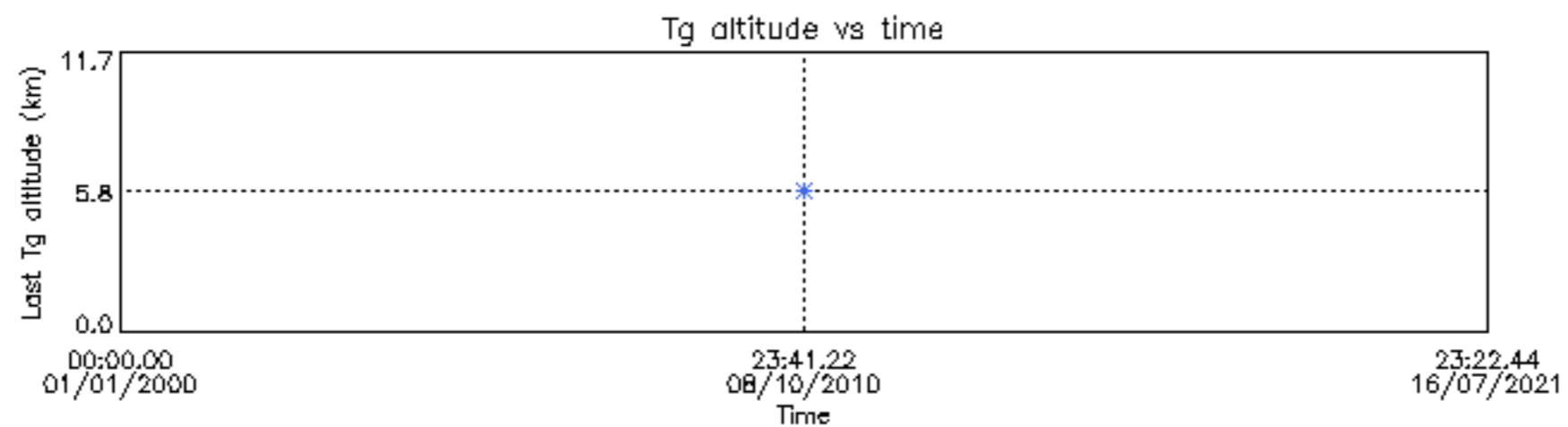
Tangent altitude at which the star is lost

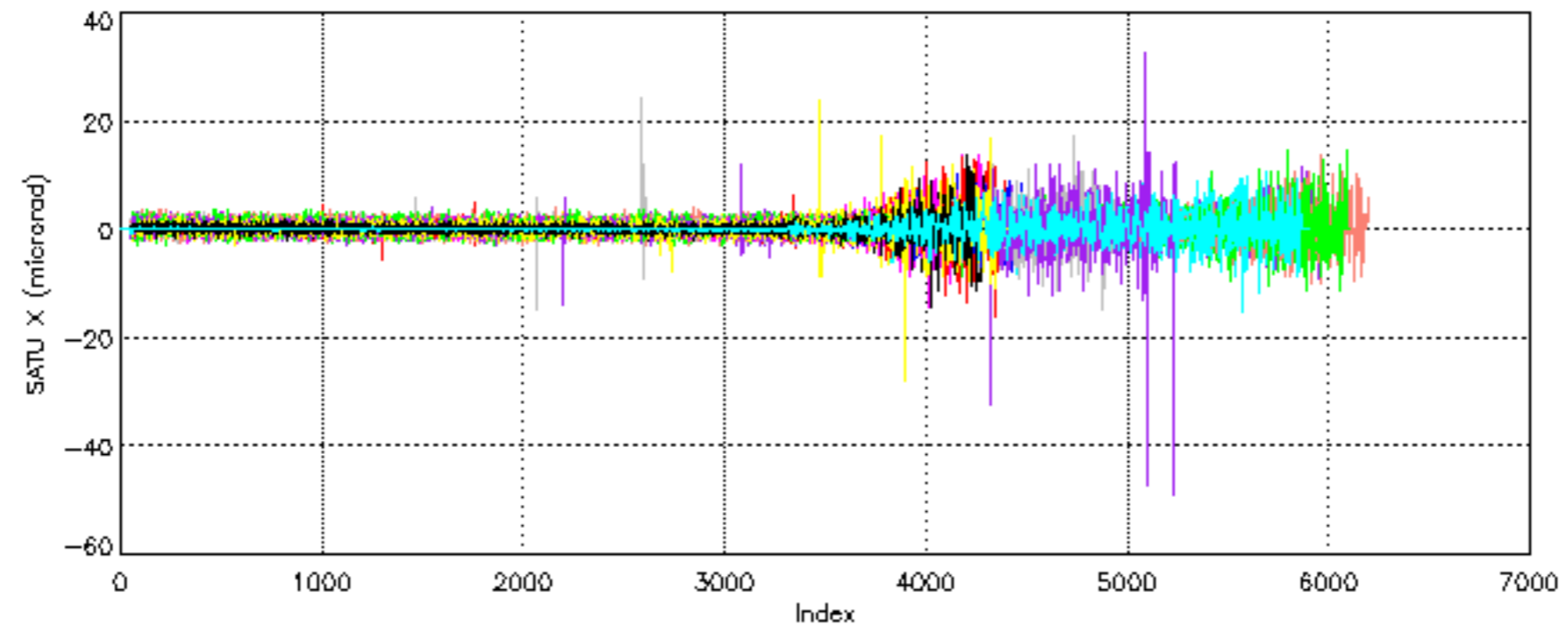


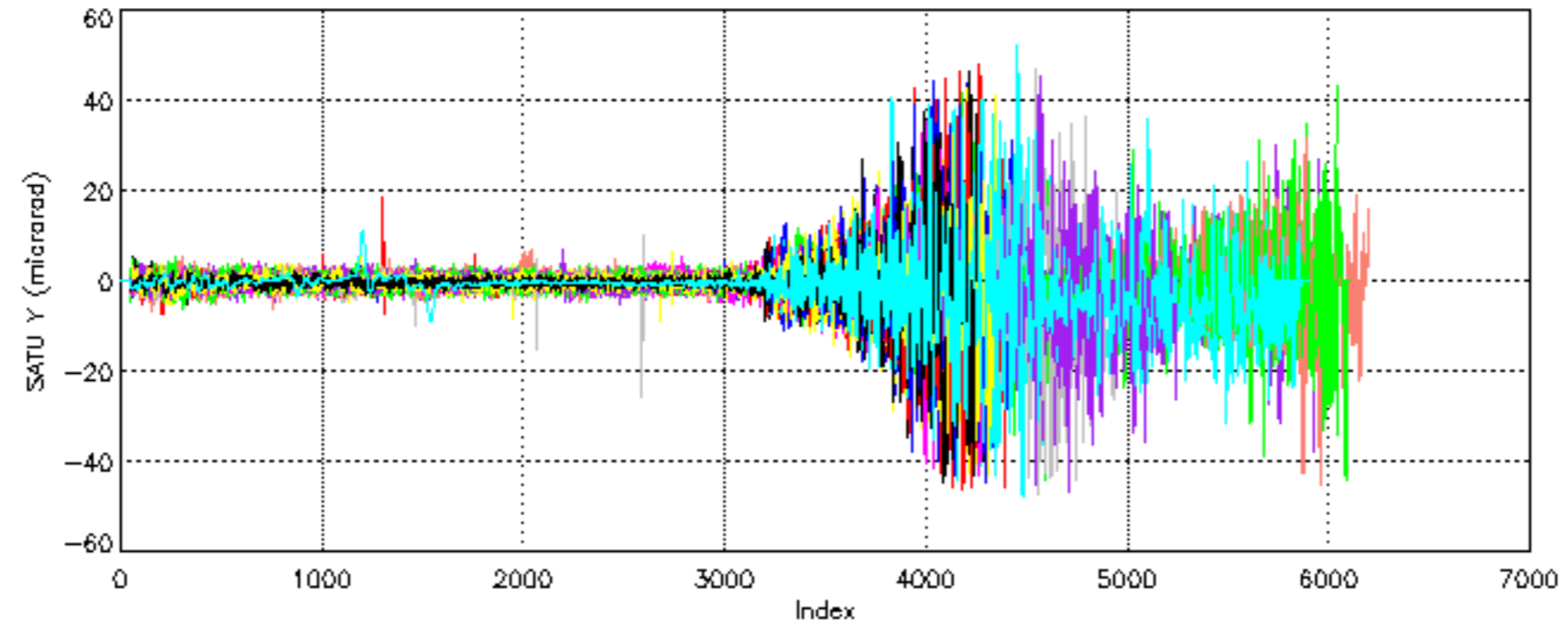
Tangent altitude at which the star is lost

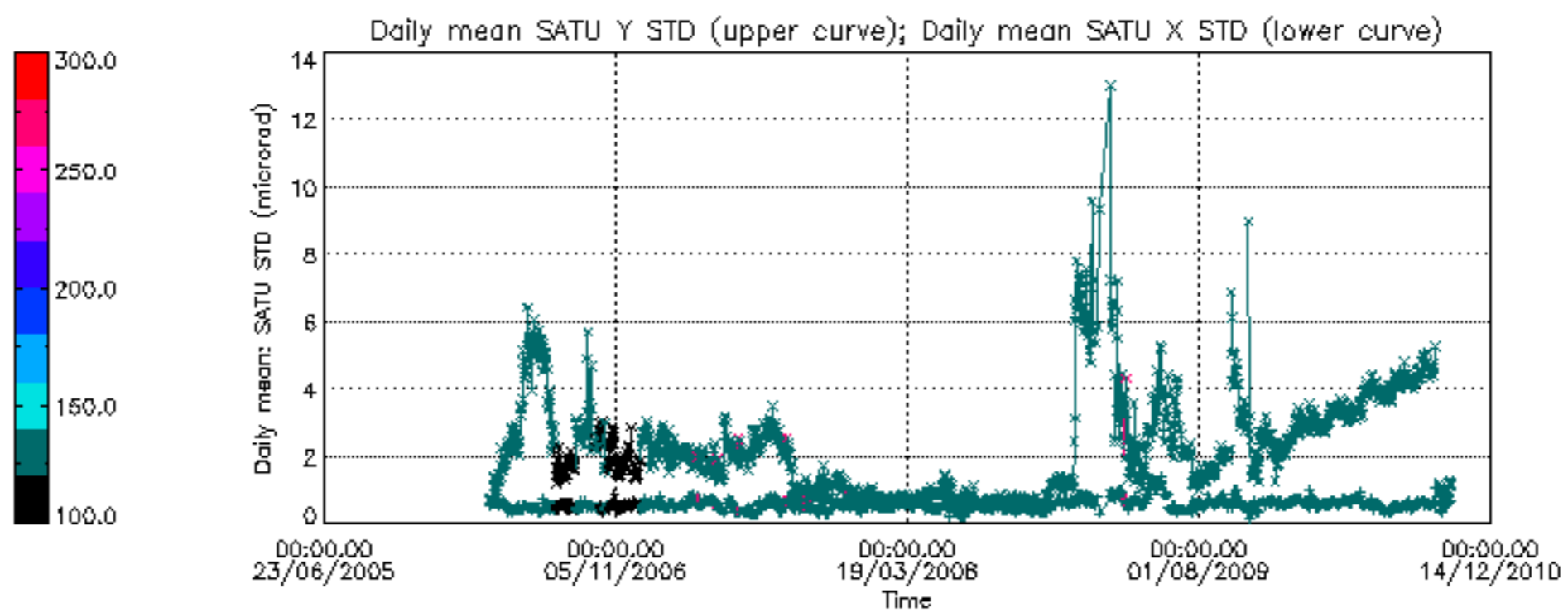


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1

1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1

1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
 10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
 11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
 13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891
 14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891
 15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_052225_000045952093_00248_44891_0968.N1

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 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891
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5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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11; 2652.6; 02-OCT-2010 00:58:36; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;44903
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4; -31.4; 02-OCT-2010 05:15:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44905
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3; 2428.6; 02-OCT-2010 21:02:03; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44915
4; 2644.7; 02-OCT-2010 21:05:40; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;44915
5; 2945.4; 02-OCT-2010 21:10:40; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44915

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2; 2181.5; 02-OCT-2010 15:56:08; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44912
3; 2429.6; 02-OCT-2010 16:00:17; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44912
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
8; 5603.8; 02-OCT-2010 16:53:11; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44912
9; 5862.1; 02-OCT-2010 16:57:29; Dark ; 64.0; 37; 25Del CMA ; 1.83; 5900;occ; 128; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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10; 5954.9; 13-OCT-2010 16:13:00; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;45069
11; 6138.4; 13-OCT-2010 16:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45069
12; 6264.3; 13-OCT-2010 16:18:09; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;45069
13; 6346.1; 13-OCT-2010 16:19:31; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45069
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 2; 2566.1; 13-OCT-2010 16:57:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;45070
 3; 2678.4; 13-OCT-2010 16:59:00; Bright; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;45070
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 7; 4625.8; 13-OCT-2010 17:31:27; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45070
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11; 6139.2; 13-OCT-2010 17:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45070
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13; 6347.1; 13-OCT-2010 18:00:08; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45070
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 8; 4626.0; 13-OCT-2010 19:12:03; Bright; 39.5; 166; 17Eps Leo ; 2.98; 6000;occ; 79; 0;45071
 9; 5252.2; 13-OCT-2010 19:22:29; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;45071
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14; 6347.7; 13-OCT-2010 19:40:45; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45071
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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
 6; 314.1; 14-OCT-2010 00:42:35; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;45075
 7; 581.9; 14-OCT-2010 00:47:03; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;45075
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 9; 2366.5; 14-OCT-2010 01:16:47; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45075
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11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
12; 2783.3; 14-OCT-2010 01:23:44; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;45075
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14; 3105.2; 14-OCT-2010 01:29:06; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45075
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 6; 315.0; 14-OCT-2010 02:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45076
 7; 583.6; 14-OCT-2010 02:27:40; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45076
 8; 1030.3; 14-OCT-2010 02:35:07; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45076
 9; 2366.0; 14-OCT-2010 02:57:22; Bright; 49.5; 105; 6Bet Ari ; 2.64; 8900;occ; 99; 0;45076
 10; 2563.9; 14-OCT-2010 03:00:40; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;45076
 11; 2673.6; 14-OCT-2010 03:02:30; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;45076
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077
 6; 234.2; 14-OCT-2010 04:02:27; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;45077
 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077
 10; 2365.7; 14-OCT-2010 04:37:58; Bright; 49.0; 105; 6Bet Ari ; 2.64; 8900;occ; 98; 0;45077
 11; 2564.0; 14-OCT-2010 04:41:16; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;45077
 12; 2673.0; 14-OCT-2010 04:43:05; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45077
 13; 2782.3; 14-OCT-2010 04:44:55; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45077
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078
 6; 235.2; 14-OCT-2010 05:43:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45078
 7; 316.7; 14-OCT-2010 05:44:25; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45078
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 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;45078
 10; 2364.9; 14-OCT-2010 06:18:33; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45078
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 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078
 14; 2973.4; 14-OCT-2010 06:28:42; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45078
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 3; 2560.3; 14-OCT-2010 21:27:12; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45087
 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
 6; 2971.1; 14-OCT-2010 21:34:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45087
 7; 3095.8; 14-OCT-2010 21:36:08; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;45087
 8; 4630.0; 14-OCT-2010 22:01:42; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;45087
 9; 4824.7; 14-OCT-2010 22:04:56; Bright; 39.0; 22; 32Alp Leo ; 1.36; 15200;occ; 78; 0;45087
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 4; 119.1; 15-OCT-2010 00:07:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45089
 5; 244.2; 15-OCT-2010 00:09:48; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45089
 6; 325.5; 15-OCT-2010 00:11:09; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45089
 7; 602.3; 15-OCT-2010 00:15:46; Dark ; 25.0; 108; Alp Col ; 2.65; 15200;occ; 50; 0;45089
 8; 1037.2; 15-OCT-2010 00:23:01; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;45089
 9; 2358.4; 15-OCT-2010 00:45:02; Bright; 46.5; 105; 6Bet Ari ; 2.64; 8900;occ; 93; 0;45089

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13; 2970.5; 15-OCT-2010 00:55:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;45089
14; 3094.1; 15-OCT-2010 00:57:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45089
15; 4630.4; 15-OCT-2010 01:22:54; Bright; 55.5; 166; 17Eps Leo ; 2.98; 6000;occ; 111; 0;45089
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11; 6019.3; 14-OCT-2010 10:40:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;45080
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6; 337.9; 16-OCT-2010 01:20:20; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45104
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17; 5808.7; 16-OCT-2010 02:51:31; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;45104

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6; 188.4; 20-OCT-2010 09:14:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45166
7; 388.3; 20-OCT-2010 09:18:17; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45166
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6; 4853.4; 20-OCT-2010 10:32:42; Bright; 41.5; 22; 32Alp Leo ; 1.36; 15200;occ; 83; 0;45166
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8; 5895.1; 20-OCT-2010 10:50:04; Dark ; 58.5; 132; 15Rho Pup ; 2.80; 6900;occ; 117; 0;45166
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5; 4651.7; 20-OCT-2010 15:31:08; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45169
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