

# GOMOS Daily Report 09-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 04:50:30
Data source version	GOMOS/5.01
Start time of products	09OCT2010 00:02:09
Stop time of products	09OCT2010 23:39:15
Store outputs in DB	Yes
Nb of level 1b prods	77
Nb of prods with errors	1

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

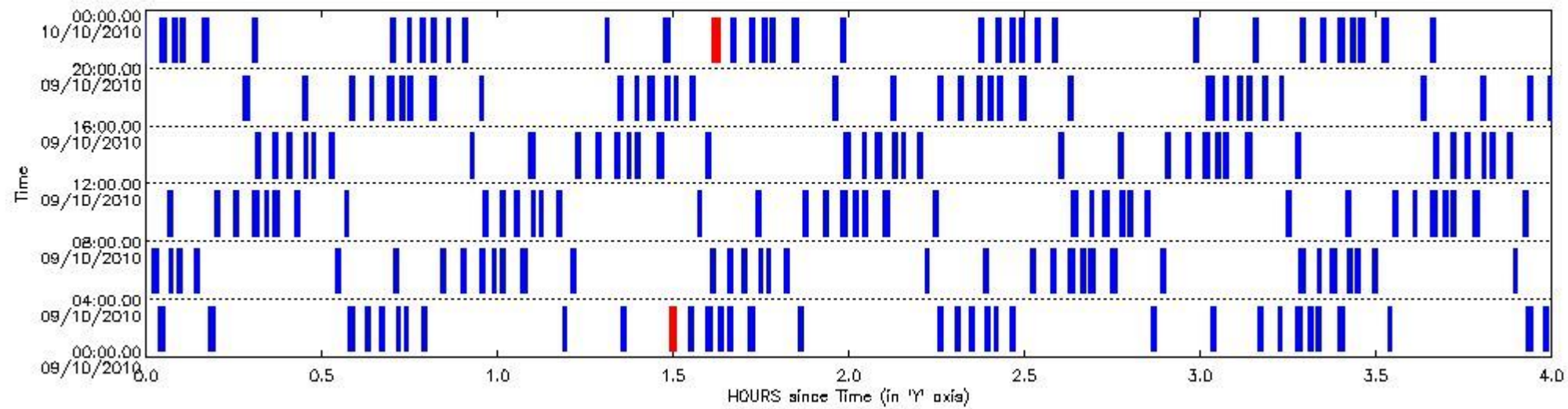
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
09-OCT-2010 01:29:18	15RhoPup	132	45003
09-OCT-2010 21:36:42	15RhoPup	132	45015

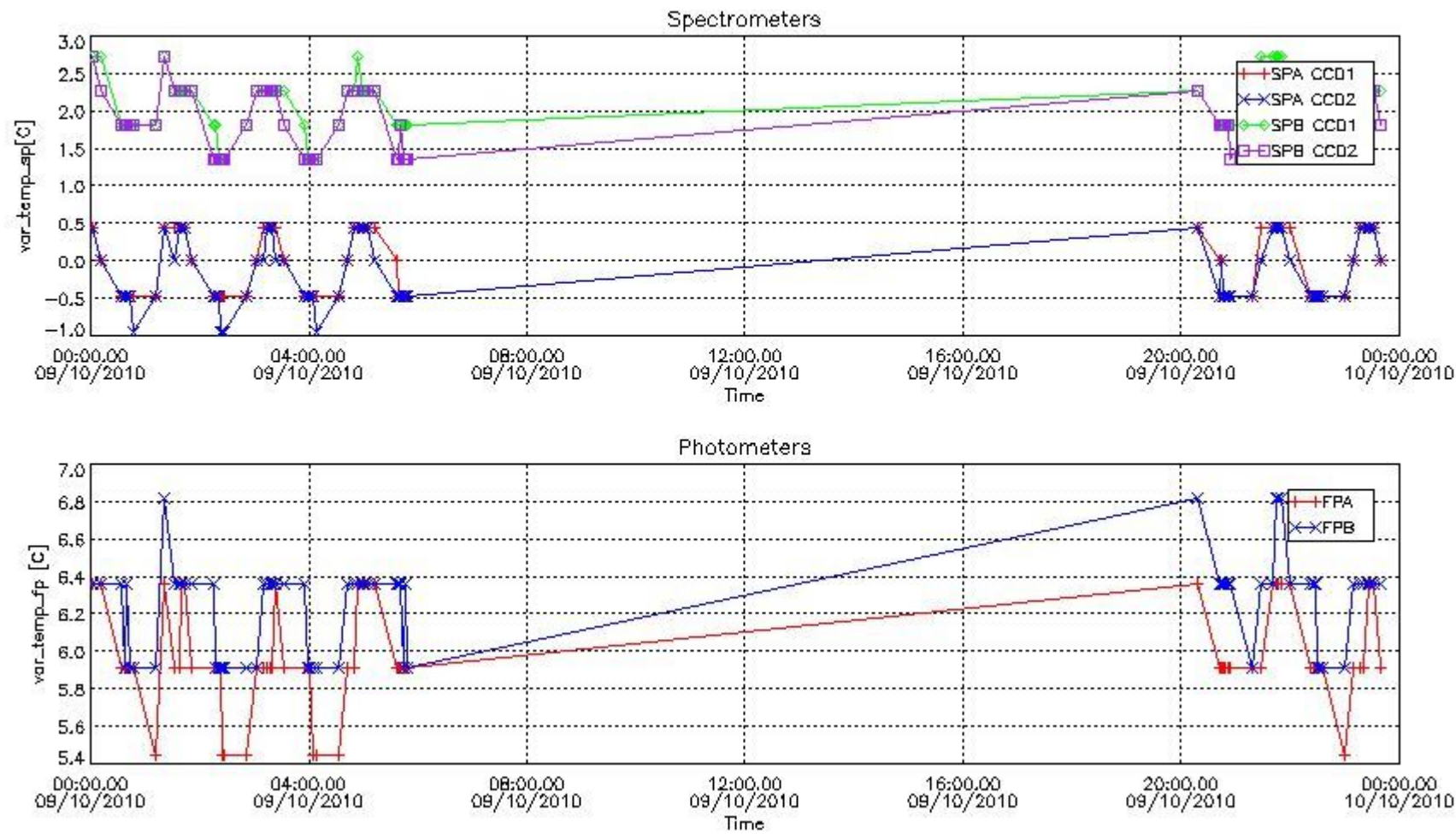
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101009_000209_000000642093_00360_45003_9915.N1	09-OCT-2010 00:02:09	Dark	63.500	108	Alp Col	2.6520	15200.	127	45003	No
2	GOM_TRA_1PNPDE20101009_001044_000000502093_00360_45003_9916.N1	09-OCT-2010 00:10:44	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	45003	No
3	GOM_TRA_1PNPDE20101009_003433_000000522093_00360_45003_9917.N1	09-OCT-2010 00:34:33	Bright	52.000	105	6Bet Ari	2.6450	8900.0	104	45003	No
4	GOM_TRA_1PNPDE20101009_003730_000000452093_00360_45003_9918.N1	09-OCT-2010 00:37:30	Bright	44.500	53	43Bet And	2.0480	3300.0	89	45003	No
5	GOM_TRA_1PNPDE20101009_003952_000000522093_00360_45003_9919.N1	09-OCT-2010 00:39:52	Bright	52.000	173	4Bet Tri	3.0040	8900.0	104	45003	No
6	GOM_TRA_1PNPDE20101009_004244_000000362093_00360_45003_9920.N1	09-OCT-2010 00:42:44	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	45003	No
7	GOM_TRA_1PNPDE20101009_004409_000000362093_00360_45003_9921.N1	09-OCT-2010 00:44:09	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	45003	No
8	GOM_TRA_1PNPDE20101009_004701_000000512093_00360_45003_9922.N1	09-OCT-2010 00:47:01	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	45003	No
9	GOM_TRA_1PNPDE20101009_011106_000000392093_00360_45003_9923.N1	09-OCT-2010 01:11:06	Bright	39.000	166	17Eps Leo	2.9800	6000.0	78	45003	No

10	GOM_TRA_1PNPDE20101009_012107_000000502093_00360_45003_9934.N1	09-OCT-2010 01:21:07	Twilight	50.000	48	30Alp Hya	1.9770	4100.0	100	45003	Yes
11	GOM_TRA_1PNPDE20101009_013233_000000452093_00360_45003_9935.N1	09-OCT-2010 01:32:33	Dark	44.500	70	Zet Pup	2.2460	39000.	89	45003	No
12	GOM_TRA_1PNPDE20101009_013745_000000422093_00361_45004_9936.N1	09-OCT-2010 01:37:45	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	45004	No
13	GOM_TRA_1PNPDE20101009_013908_000000562093_00361_45004_9937.N1	09-OCT-2010 01:39:08	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	45004	No
14	GOM_TRA_1PNPDE20101009_014247_000000612093_00361_45004_9938.N1	09-OCT-2010 01:42:47	Dark	61.000	108	Alp Col	2.6520	15200.	122	45004	No
15	GOM_TRA_1PNPDE20101009_015120_000000462093_00361_45004_9939.N1	09-OCT-2010 01:51:20	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	45004	No
16	GOM_TRA_1PNPDE20101009_021508_000000532093_00361_45004_9940.N1	09-OCT-2010 02:15:08	Bright	52.500	105	6Bet Ari	2.6450	8900.0	105	45004	No
17	GOM_TRA_1PNPDE20101009_021805_000000442093_00361_45004_9941.N1	09-OCT-2010 02:18:05	Bright	44.000	53	43Bet And	2.0480	3300.0	88	45004	No
18	GOM_TRA_1PNPDE20101009_022027_000000522093_00361_45004_9942.N1	09-OCT-2010 02:20:27	Bright	51.500	173	4Bet Tri	3.0040	8900.0	103	45004	No
19	GOM_TRA_1PNPDE20101009_022320_000000372093_00361_45004_9943.N1	09-OCT-2010 02:23:20	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	45004	No
20	GOM_TRA_1PNPDE20101009_022444_000000372093_00361_45004_9944.N1	09-OCT-2010 02:24:44	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	45004	No
21	GOM_TRA_1PNPDE20101009_022737_000000462093_00361_45004_9945.N1	09-OCT-2010 02:27:37	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45004	No
22	GOM_TRA_1PNPDE20101009_025142_000000372093_00361_45004_9965.N1	09-OCT-2010 02:51:42	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	45004	No
23	GOM_TRA_1PNPDE20101009_030144_000000482093_00361_45004_9966.N1	09-OCT-2010 03:01:44	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	45004	No
24	GOM_TRA_1PNPDE20101009_030942_000000482093_00361_45004_9967.N1	09-OCT-2010 03:09:42	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	45004	No
25	GOM_TRA_1PNPDE20101009_031310_000000412093_00361_45004_9968.N1	09-OCT-2010 03:13:10	Dark	41.000	70	Zet Pup	2.2460	39000.	82	45004	No
26	GOM_TRA_1PNPDE20101009_031822_000000442093_00362_45005_9969.N1	09-OCT-2010 03:18:22	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45005	No
27	GOM_TRA_1PNPDE20101009_031945_000000462093_00362_45005_9970.N1	09-OCT-2010 03:19:45	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45005	No
28	GOM_TRA_1PNPDE20101009_032324_000000642093_00362_45005_9971.N1	09-OCT-2010 03:23:24	Dark	63.500	108	Alp Col	2.6520	15200.	127	45005	No
29	GOM_TRA_1PNPDE20101009_033157_000000452093_00362_45005_9972.N1	09-OCT-2010 03:31:57	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45005	No
30	GOM_TRA_1PNPDE20101009_035543_000000532093_00362_45005_9973.N1	09-OCT-2010 03:55:43	Bright	52.500	105	6Bet Ari	2.6450	8900.0	105	45005	No
31	GOM_TRA_1PNPDE20101009_035841_000000452093_00362_45005_9974.N1	09-OCT-2010 03:58:41	Bright	45.000	53	43Bet And	2.0480	3300.0	90	45005	No
32	GOM_TRA_1PNPDE20101009_040102_000000532093_00362_45005_9975.N1	09-OCT-2010 04:01:02	Bright	53.000	173	4Bet Tri	3.0040	8900.0	106	45005	No
33	GOM_TRA_1PNPDE20101009_040356_000000392093_00362_45005_9976.N1	09-OCT-2010 04:03:56	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	45005	No
34	GOM_TRA_1PNPDE20101009_040520_000000392093_00362_45005_9977.N1	09-OCT-2010 04:05:20	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45005	No
35	GOM_TRA_1PNPDE20101009_040812_000000482093_00362_45005_9978.N1	09-OCT-2010 04:08:12	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	45005	No
36	GOM_TRA_1PNPDE20101009_043218_000000452093_00362_45005_9989.N1	09-OCT-2010 04:32:18	Bright	45.000	166	17Eps Leo	2.9800	6000.0	90	45005	No
37	GOM_TRA_1PNPDE20101009_044220_000000472093_00362_45005_9990.N1	09-OCT-2010 04:42:20	Twilight	46.500	48	30Alp Hya	1.9770	4100.0	93	45005	No
38	GOM_TRA_1PNPDE20101009_045019_000000492093_00362_45005_9991.N1	09-OCT-2010 04:50:19	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	45005	No
39	GOM_TRA_1PNPDE20101009_045347_000000442093_00362_45005_9992.N1	09-OCT-2010 04:53:47	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45005	No
40	GOM_TRA_1PNPDE20101009_045858_000000432093_00363_45006_9993.N1	09-OCT-2010 04:58:58	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45006	No
41	GOM_TRA_1PNPDE20101009_050022_000000582093_00363_45006_9994.N1	09-OCT-2010 05:00:22	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	45006	No
42	GOM_TRA_1PNPDE20101009_050402_000000602093_00363_45006_9995.N1	09-OCT-2010 05:04:02	Dark	60.000	108	Alp Col	2.6520	15200.	120	45006	No
43	GOM_TRA_1PNPDE20101009_051234_000000482093_00363_45006_9996.N1	09-OCT-2010 05:12:34	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45006	No
44	GOM_TRA_1PNPDE20101009_053618_000000542093_00363_45006_9997.N1	09-OCT-2010 05:36:18	Bright	53.500	105	6Bet Ari	2.6450	8900.0	107	45006	No
45	GOM_TRA_1PNPDE20101009_053917_000000452093_00363_45006_9998.N1	09-OCT-2010 05:39:17	Bright	44.500	53	43Bet And	2.0480	3300.0	89	45006	No
46	GOM_TRA_1PNPDE20101009_054137_000000522093_00363_45006_9999.N1	09-OCT-2010 05:41:37	Bright	51.500	173	4Bet Tri	3.0040	8900.0	103	45006	No
47	GOM_TRA_1PNPDE20101009_054431_000000412093_00363_45006_0000.N1	09-OCT-2010 05:44:31	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	45006	No
48	GOM_TRA_1PNPDE20101009_054555_000000382093_00363_45006_0001.N1	09-OCT-2010 05:45:55	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45006	No
49	GOM_TRA_1PNPDE20101009_054847_000000492093_00363_45006_0002.N1	09-OCT-2010 05:48:47	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45006	No
50	GOM_TRA_1PNPDE20101009_201802_000000472093_00372_45015_0072.N1	09-OCT-2010 20:18:02	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45015	No
51	GOM_TRA_1PNPDE20101009_204134_000000512093_00372_45015_0073.N1	09-OCT-2010 20:41:34	Bright	51.000	105	6Bet Ari	2.6450	8900.0	102	45015	No
52	GOM_TRA_1PNPDE20101009_204436_000000422093_00372_45015_0074.N1	09-OCT-2010 20:44:36	Bright	42.000	53	43Bet And	2.0480	3300.0	84	45015	No
53	GOM_TRA_1PNPDE20101009_204652_000000502093_00372_45015_0075.N1	09-OCT-2010 20:46:52	Bright	49.500	173	4Bet Tri	3.0040	8900.0	99	45015	No
54	GOM_TRA_1PNPDE20101009_204834_000000512093_00372_45015_0076.N1	09-OCT-2010 20:48:34	Bright	51.000	73	57Gam1And	2.2600	13100.	102	45015	No
55	GOM_TRA_1PNPDE20101009_205116_000000392093_00372_45015_0077.N1	09-OCT-2010 20:51:16	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45015	No
56	GOM_TRA_1PNPDE20101009_205402_000000472093_00372_45015_0078.N1	09-OCT-2010 20:54:02	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45015	No
57	GOM_TRA_1PNPDE20101009_211819_000000412093_00372_45015_0079.N1	09-OCT-2010 21:18:19	Bright	40.500	166	17Eps Leo	2.9800	6000.0	81	45015	No
58	GOM_TRA_1PNPDE20101009_212825_000000522093_00372_45015_0125.N1	09-OCT-2010 21:28:25	Twilight	51.500	48	30Alp Hya	1.9770	4100.0	103	45015	No
59	GOM_TRA_1PNPDE20101009_213954_000000422093_00372_45015_0126.N1	09-OCT-2010 21:39:54	Dark	42.000	70	Zet Pup	2.2460	39000.	84	45015	No
60	GOM_TRA_1PNPDE20101009_214506_000000452093_00373_45016_0127.N1	09-OCT-2010 21:45:06	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	45016	No
61	GOM_TRA_1PNPDE20101009_214629_000000462093_00373_45016_0128.N1	09-OCT-2010 21:46:29	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45016	No
62	GOM_TRA_1PNPDE20101009_215016_000000612093_00373_45016_0129.N1	09-OCT-2010 21:50:16	Dark	60.500	108	Alp Col	2.6520	15200.	121	45016	No
63	GOM_TRA_1PNPDE20101009_215839_000000482093_00373_45016_0130.N1	09-OCT-2010 21:58:39	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	45016	No
64	GOM_TRA_1PNPDE20101009_222209_000000512093_00373_45016_0131.N1	09-OCT-2010 22:22:09	Bright	50.500	105	6Bet Ari	2.6450	8900.0	101	45016	No
65	GOM_TRA_1PNPDE20101009_222511_000000422093_00373_45016_0132.N1	09-OCT-2010 22:25:11	Bright	42.000	53	43Bet And	2.0480	3300.0	84	45016	No
66	GOM_TRA_1PNPDE20101009_222727_000000522093_00373_45016_0133.N1	09-OCT-2010 22:27:27	Bright	52.000	173	4Bet Tri	3.0040	8900.0	104	45016	No
67	GOM_TRA_1PNPDE20101009_222909_000000492093_00373_45016_0134.N1	09-OCT-2010 22:29:09	Bright	49.000	73	57Gam1And	2.2600	13100.	98	45016	No
68	GOM_TRA_1PNPDE20101009_223152_000000392093_00373_45016_0135.N1	09-OCT-2010 22:31:52	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45016	No

69	GOM_TRA_1PNPDE20101009_223437_000000482093_00373_45016_0136.N1	09-OCT-2010 22:34:37	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	45016	No
70	GOM_TRA_1PNPDE20101009_225855_000000402093_00373_45016_0137.N1	09-OCT-2010 22:58:55	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	45016	No
71	GOM_TRA_1PNPDE20101009_230901_000000522093_00373_45016_0138.N1	09-OCT-2010 23:09:01	Twilight	51.500	48	30Alp Hya	1.9770	4100.0	103	45016	No
72	GOM_TRA_1PNPDE20101009_231706_000000512093_00373_45016_0141.N1	09-OCT-2010 23:17:06	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	45016	No
73	GOM_TRA_1PNPDE20101009_232031_000000432093_00373_45016_0142.N1	09-OCT-2010 23:20:31	Dark	42.500	70	Zet Pup	2.2460	39000.	85	45016	No
74	GOM_TRA_1PNPDE20101009_232542_000000442093_00374_45017_0143.N1	09-OCT-2010 23:25:42	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45017	No
75	GOM_TRA_1PNPDE20101009_232705_000000582093_00374_45017_0144.N1	09-OCT-2010 23:27:05	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	45017	No
76	GOM_TRA_1PNPDE20101009_233054_000000632093_00374_45017_0145.N1	09-OCT-2010 23:30:54	Dark	62.500	108	Alp Col	2.6520	15200.	125	45017	No
77	GOM_TRA_1PNPDE20101009_233915_000000502093_00374_45017_0146.N1	09-OCT-2010 23:39:15	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	45017	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.

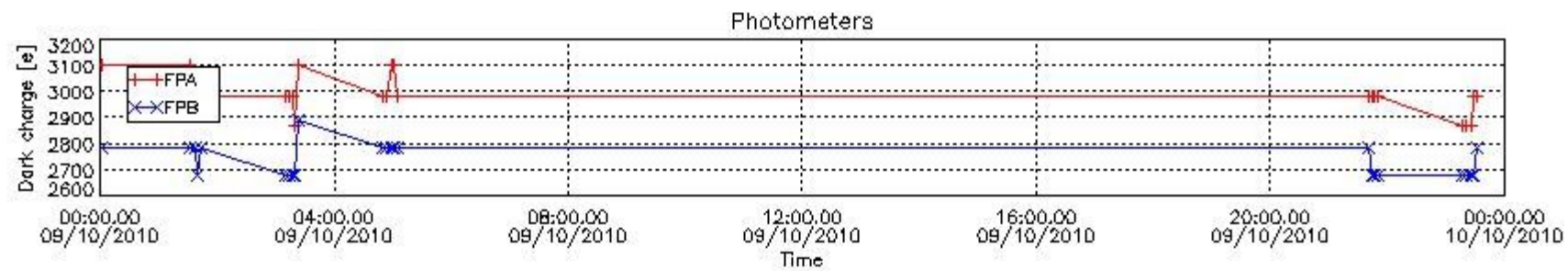
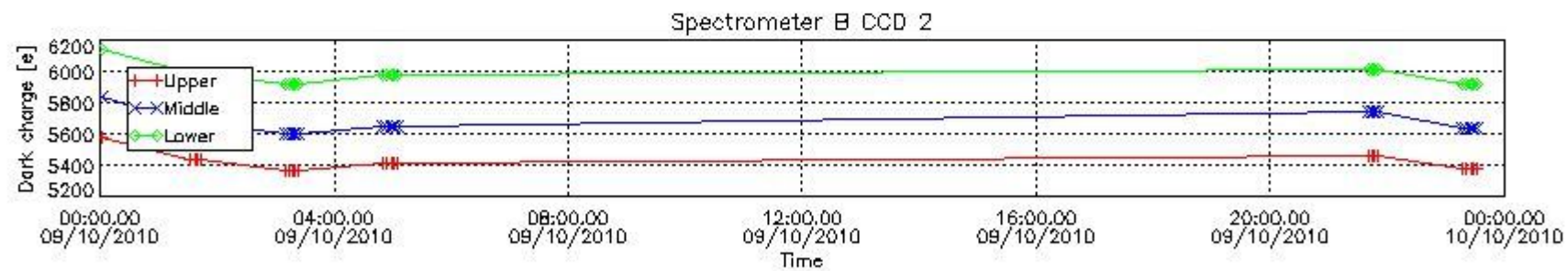
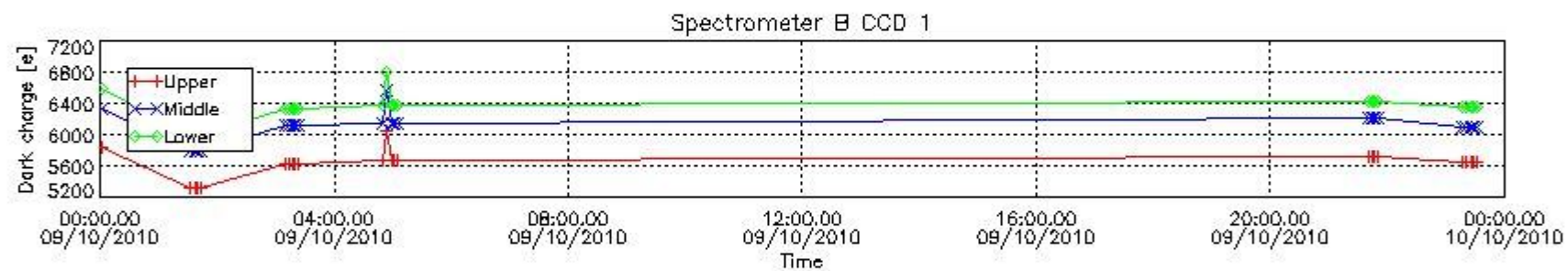
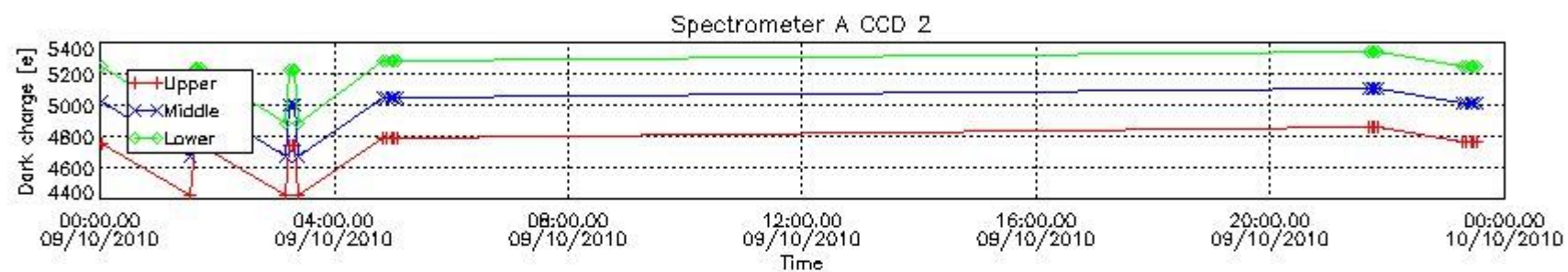
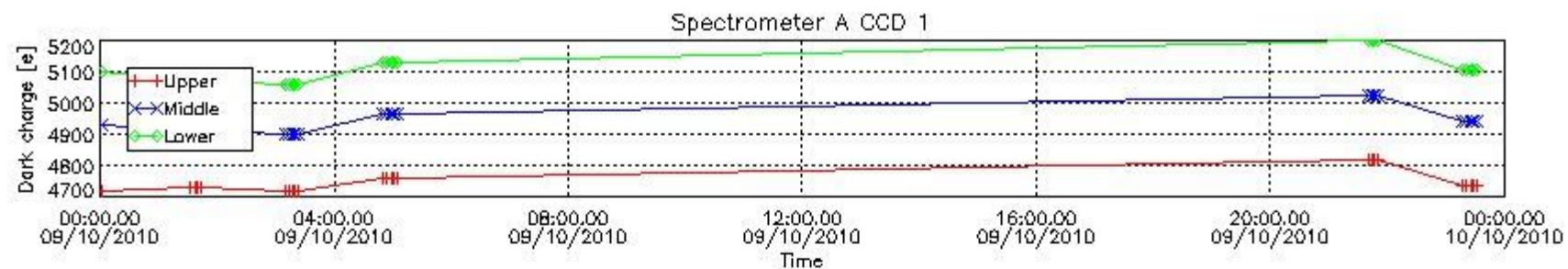
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101009_201802_000000472093_00372_45015_0072.N1	DC map used



GOM_TRA_1PNPDE20101009_204134_000000512093_00372_45015_0073.N1	DC map used
GOM_TRA_1PNPDE20101009_204436_000000422093_00372_45015_0074.N1	DC map used
GOM_TRA_1PNPDE20101009_204652_000000502093_00372_45015_0075.N1	DC map used
GOM_TRA_1PNPDE20101009_204834_000000512093_00372_45015_0076.N1	DC map used
GOM_TRA_1PNPDE20101009_205116_000000392093_00372_45015_0077.N1	DC map used
GOM_TRA_1PNPDE20101009_205402_000000472093_00372_45015_0078.N1	DC map used
GOM_TRA_1PNPDE20101009_211819_000000412093_00372_45015_0079.N1	DC map used

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



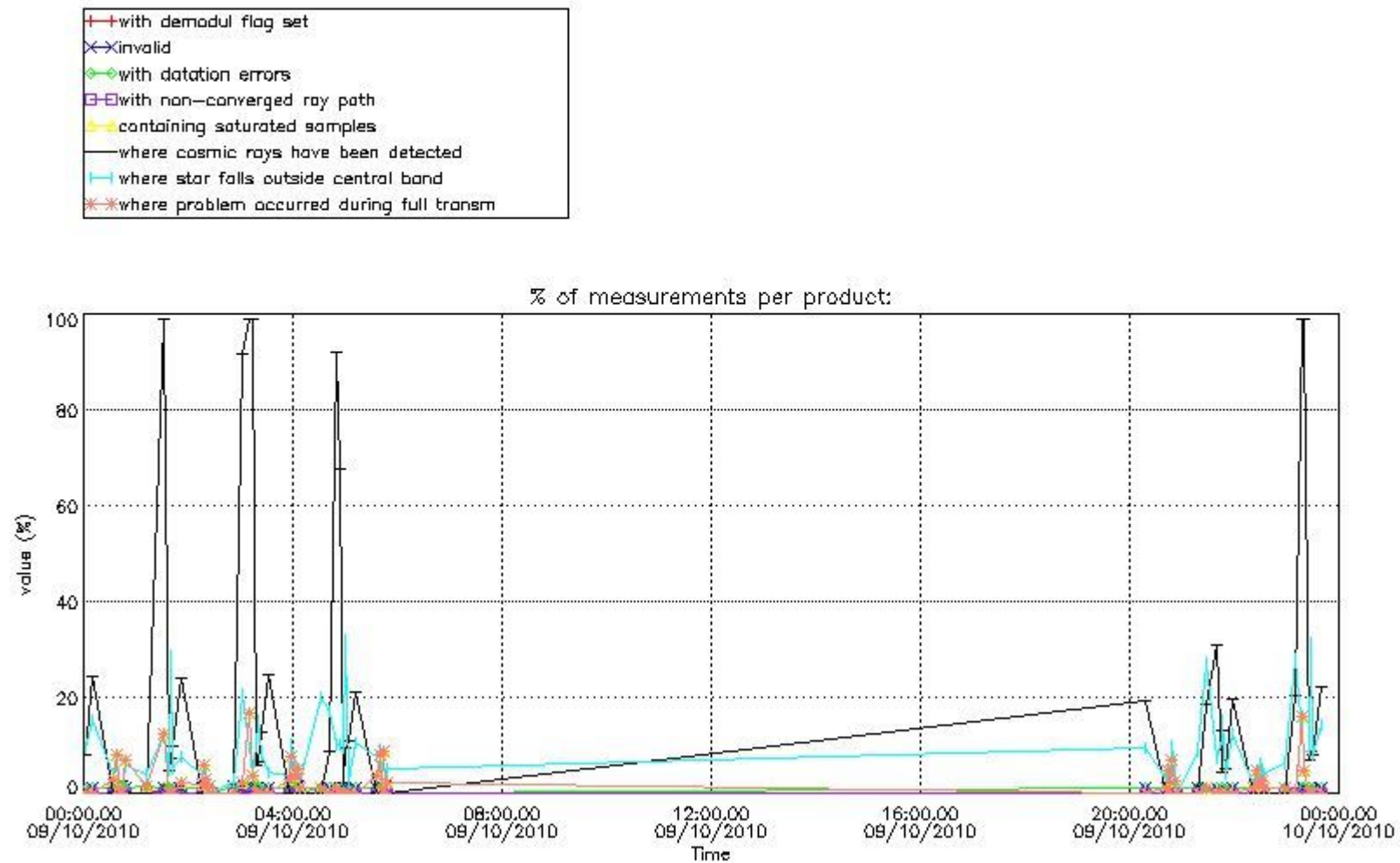
## 5. Demodulation flag and quality information monitoring

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

### 5.1 Percentage of products during reporting period with:

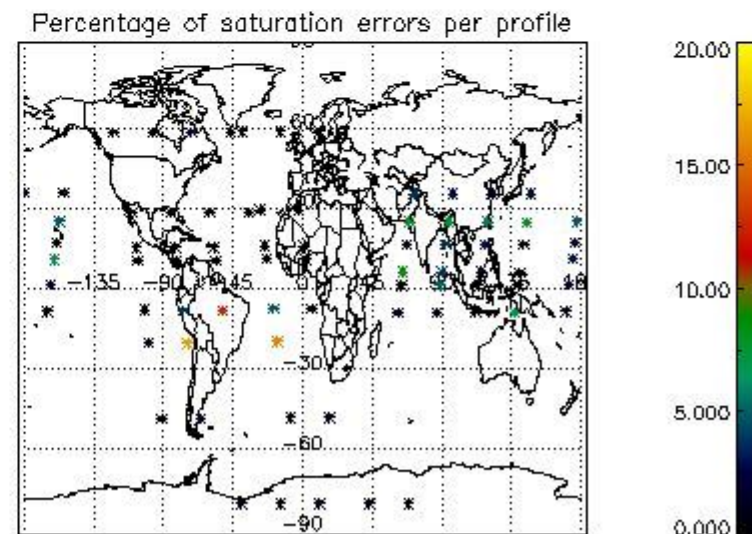
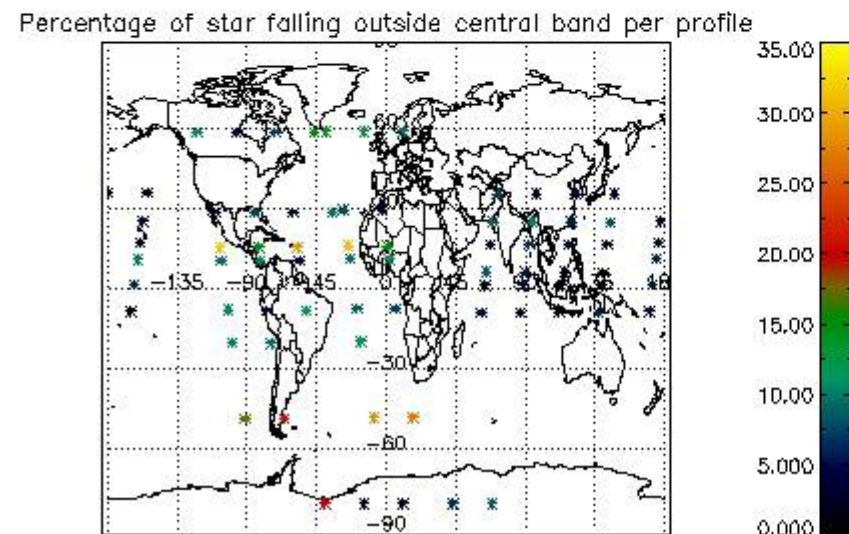
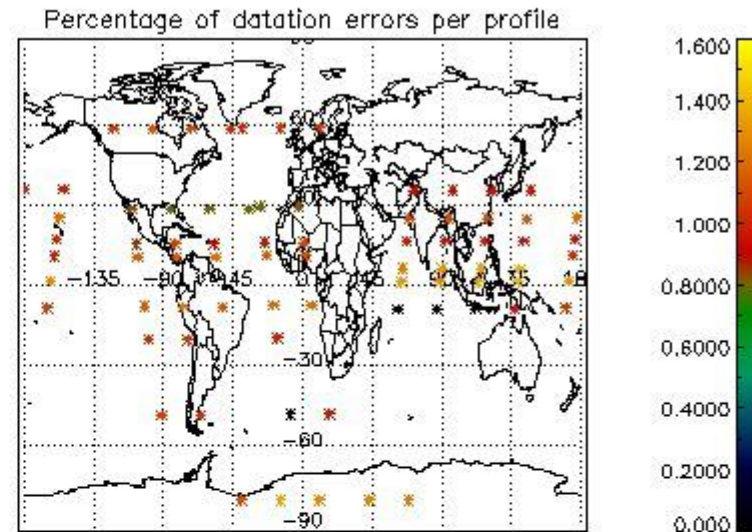
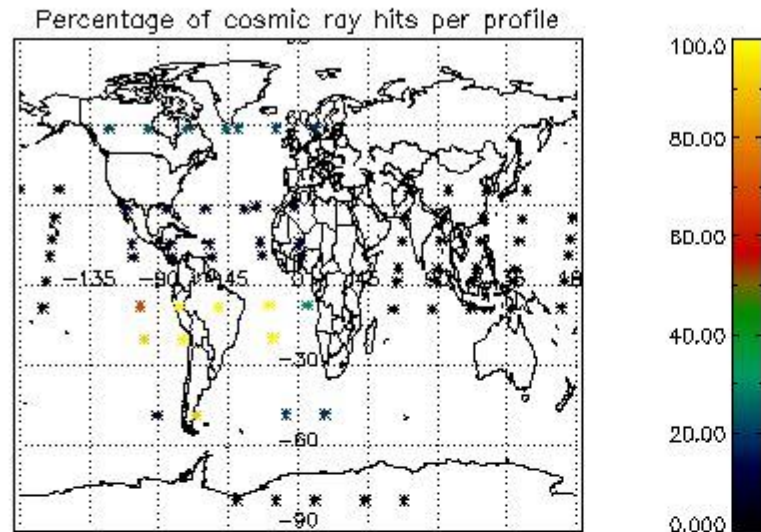
At least one measurement with demodulation flag set:	43.4211 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





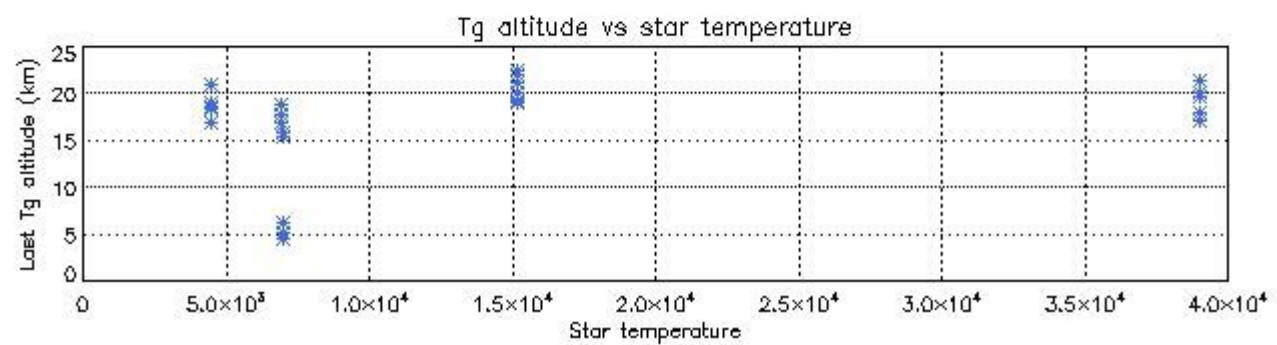
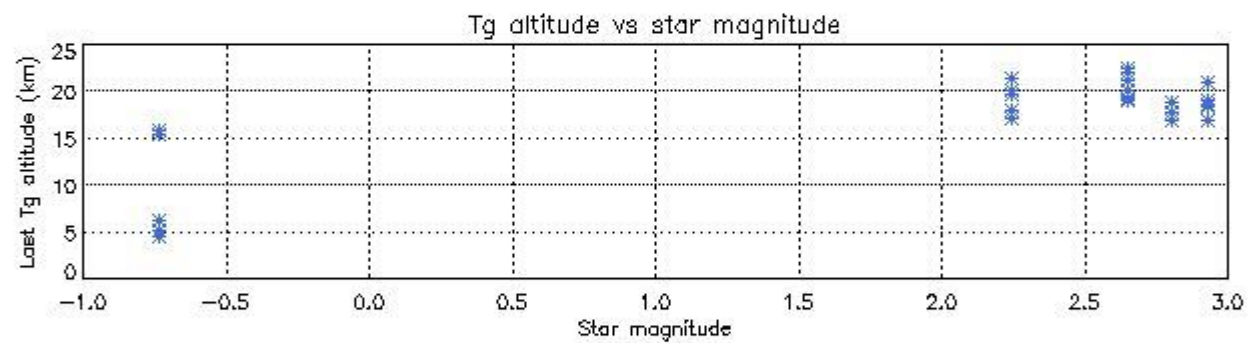
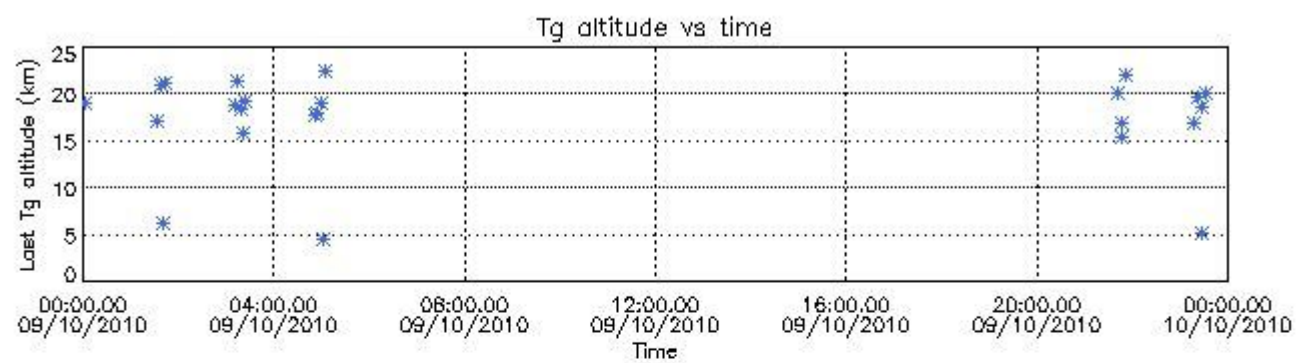
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.236	22.303	10.091
St. deviation:	5.0039	3.2625	1.9893
Maximum:	22.486	29.977	12.364
Minimum:	4.4567	12.298	8.3517
Number of data:	24.000	41.000	4.0000

### 6.2 Plot for DARK limb products

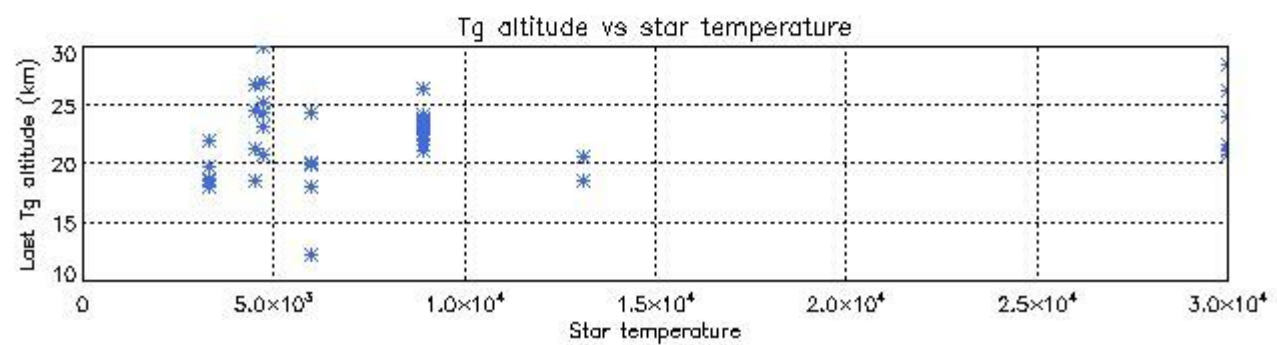
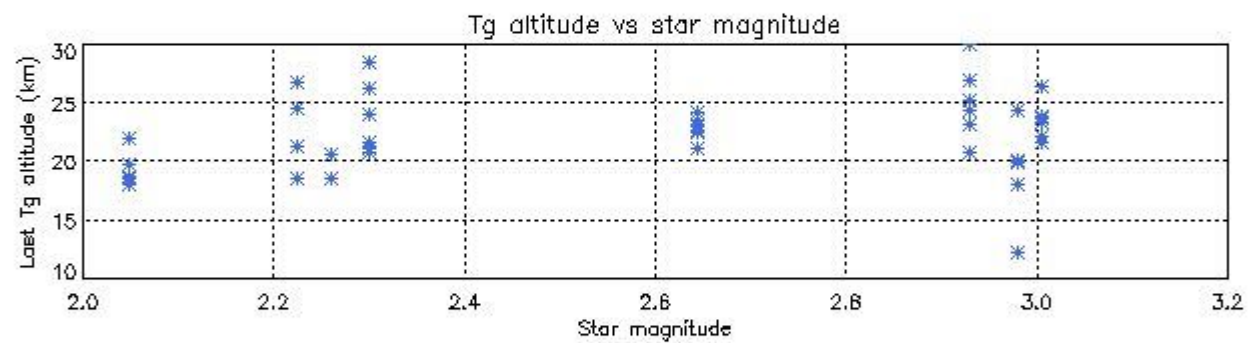
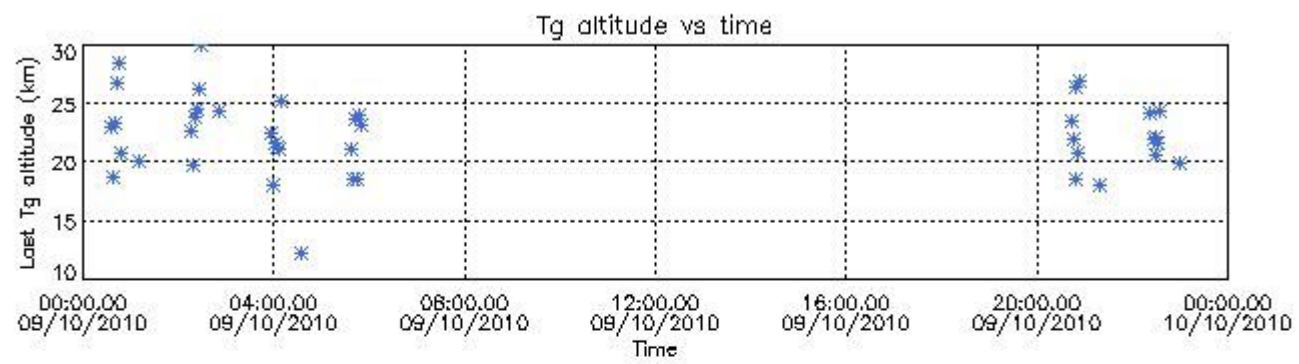
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

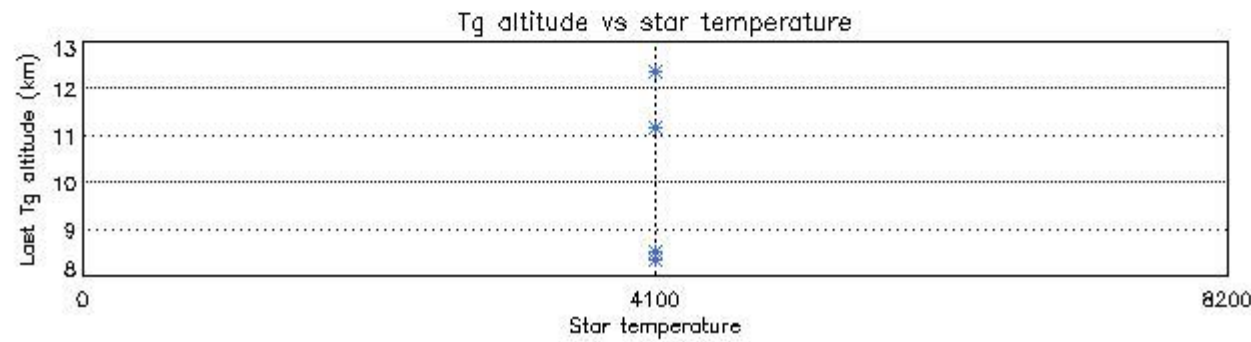
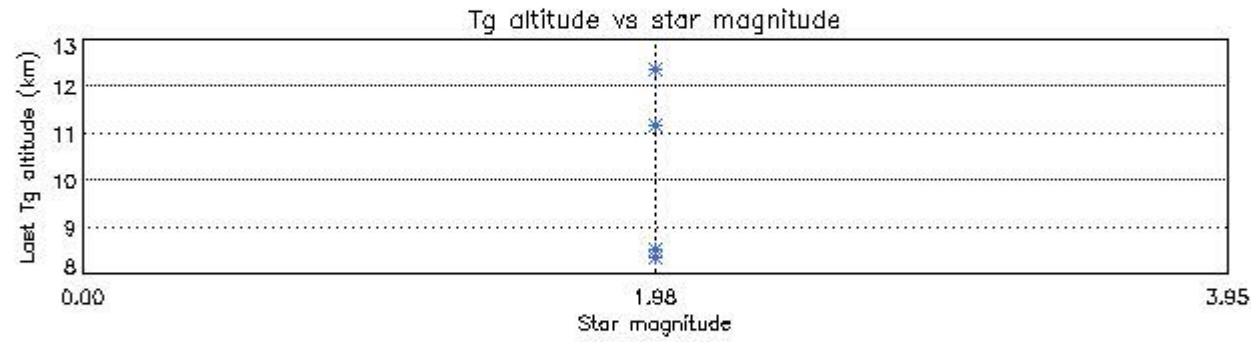
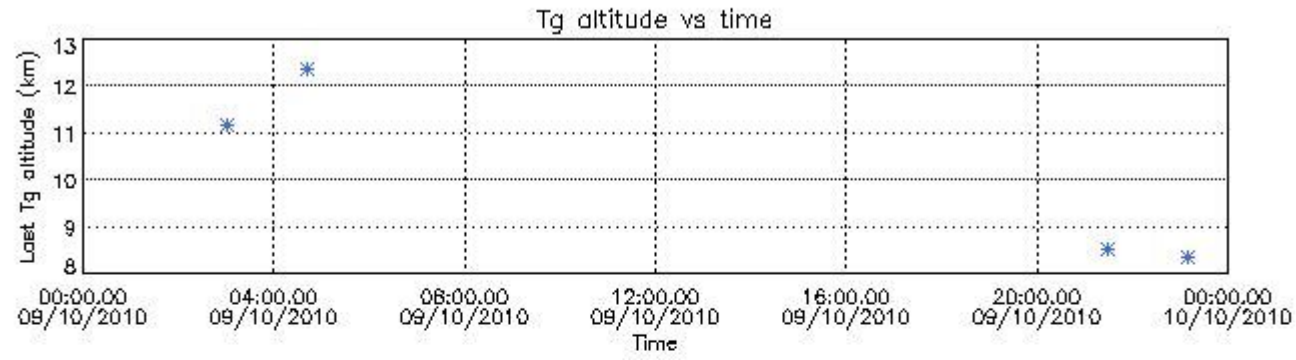


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

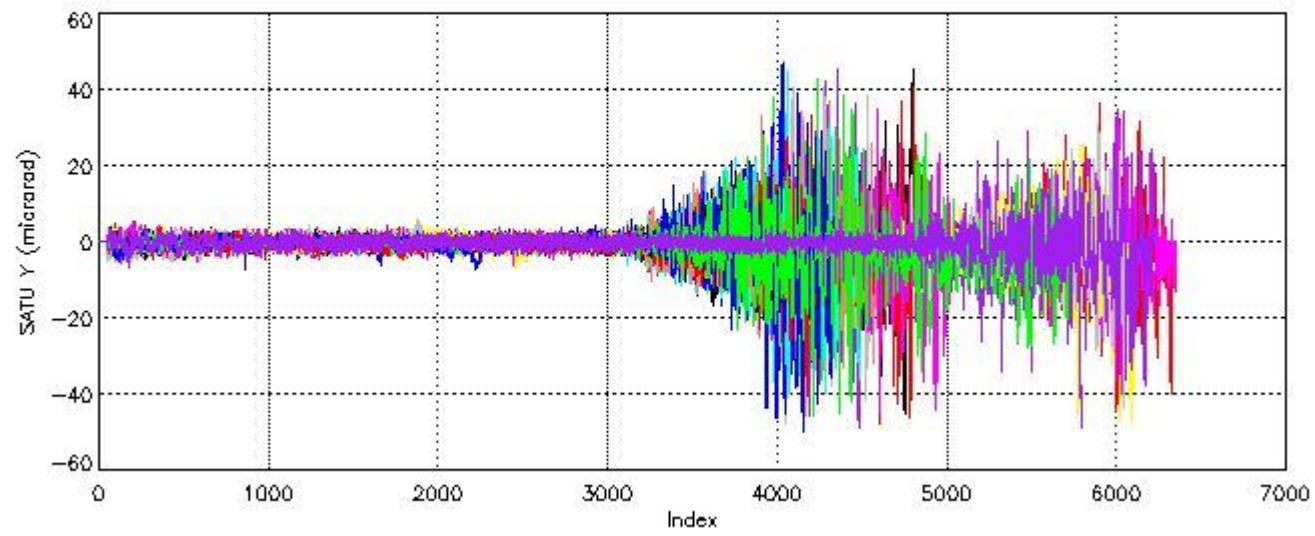
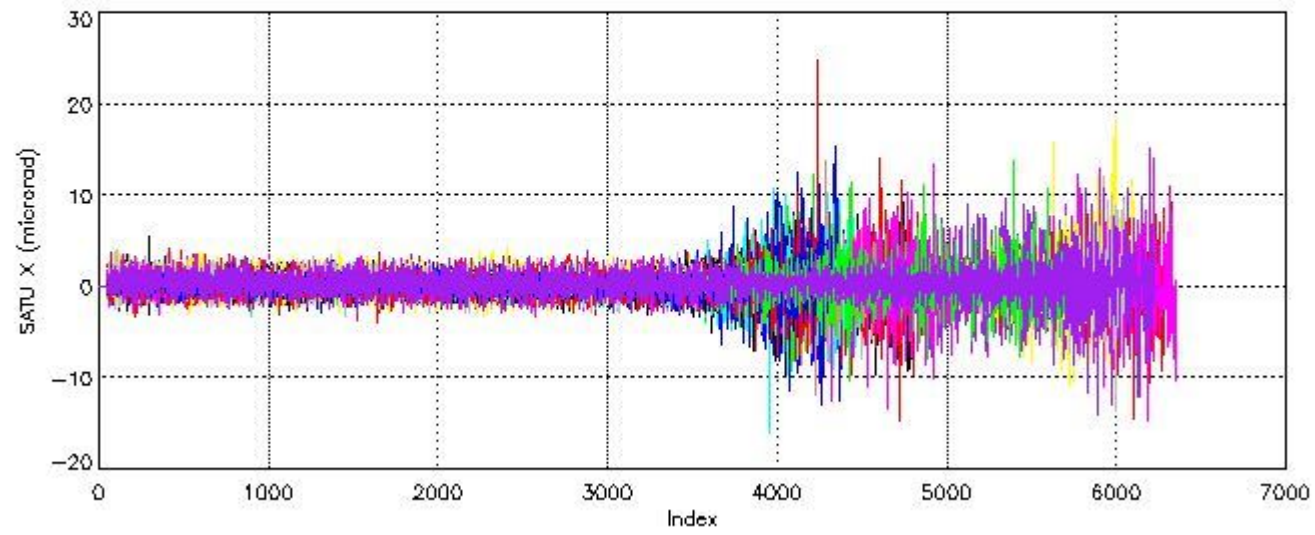


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.23388	-0.42185	0.19718	-0.38393
St. deviation:	0.65332	1.1165	0.84207	1.2989
Maximum:	5.4000	5.1000	6.4000	6.0000
Minimum:	-3.4000	-7.5000	-5.3000	-7.4000



Number of data:	26750.	26750.	46700.	46700.
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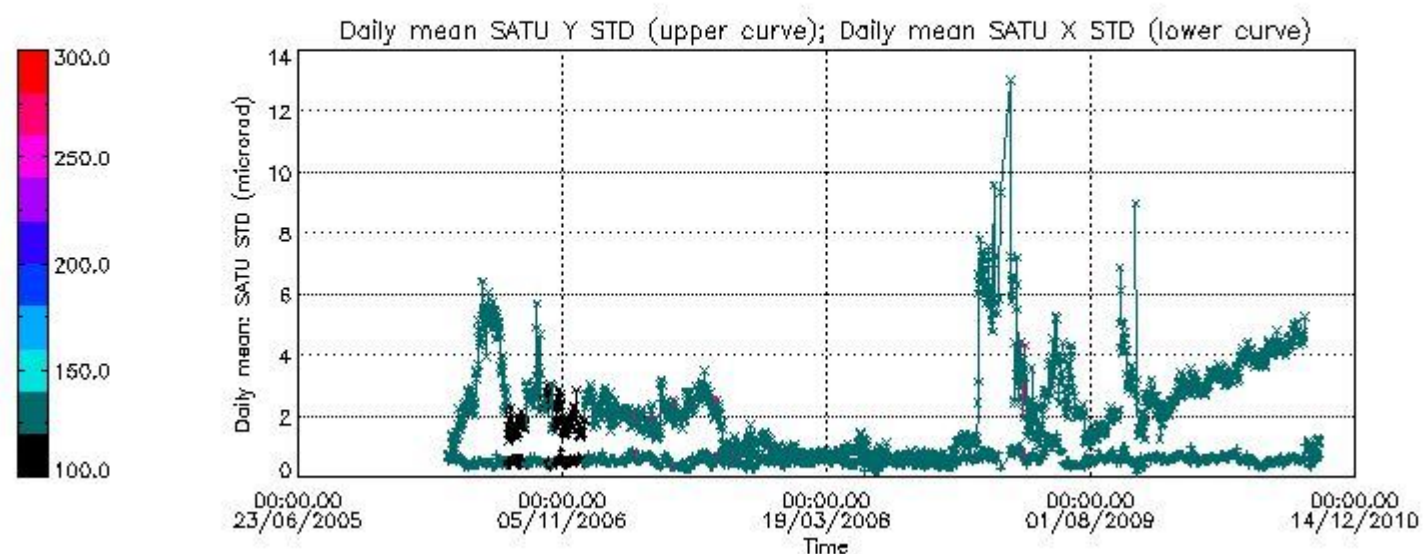
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

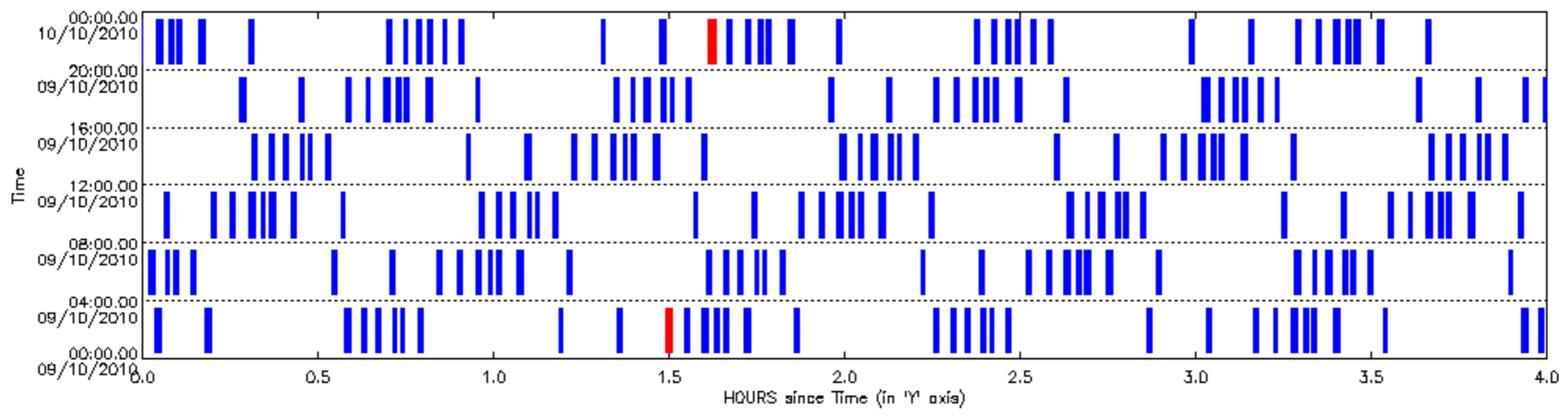
Lower curve: STD of SATU X axis

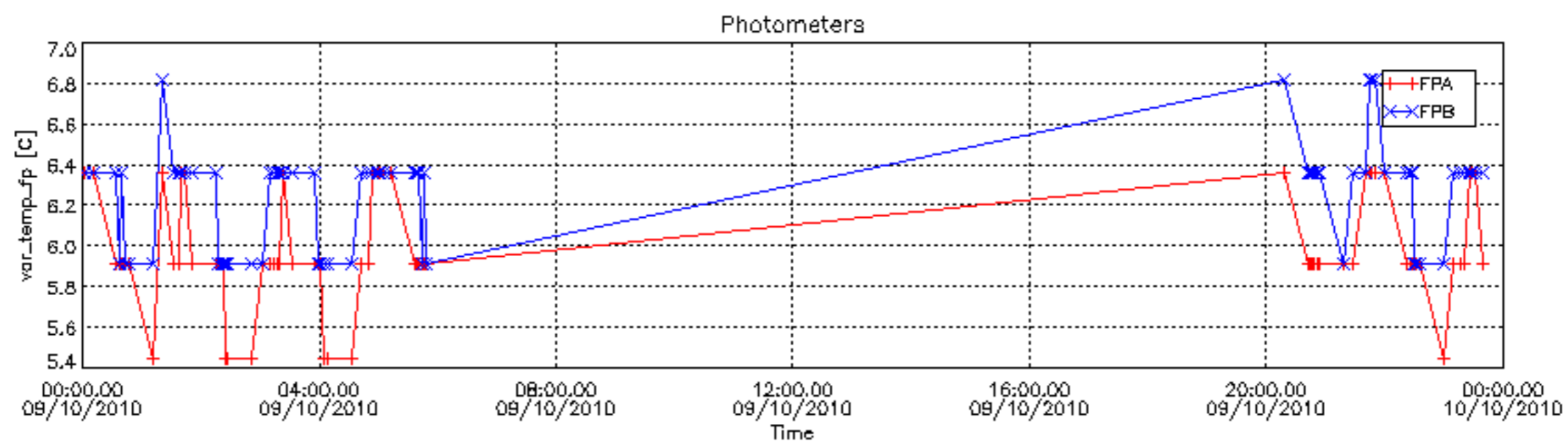
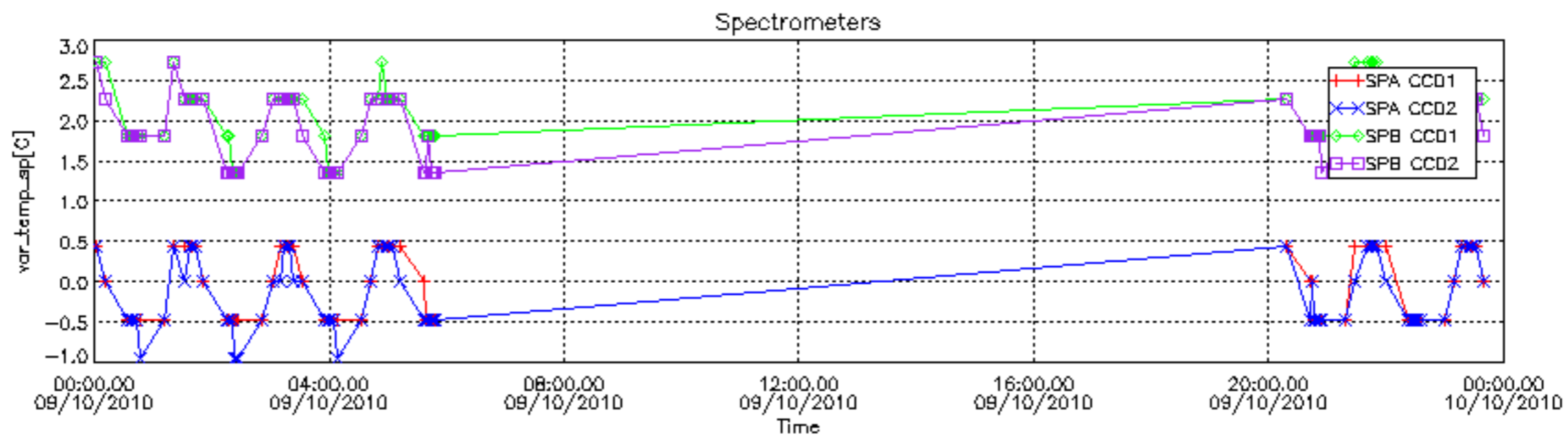


### 8. Auxiliary Data Files used for the production reported in section 2.4

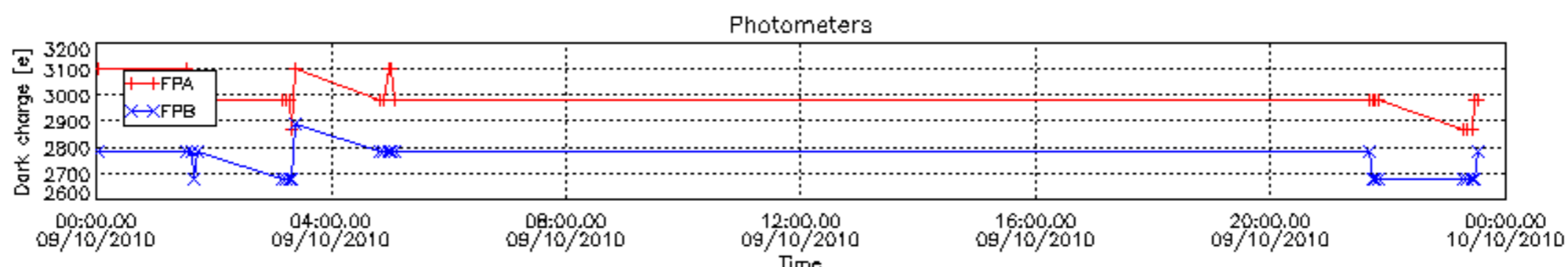
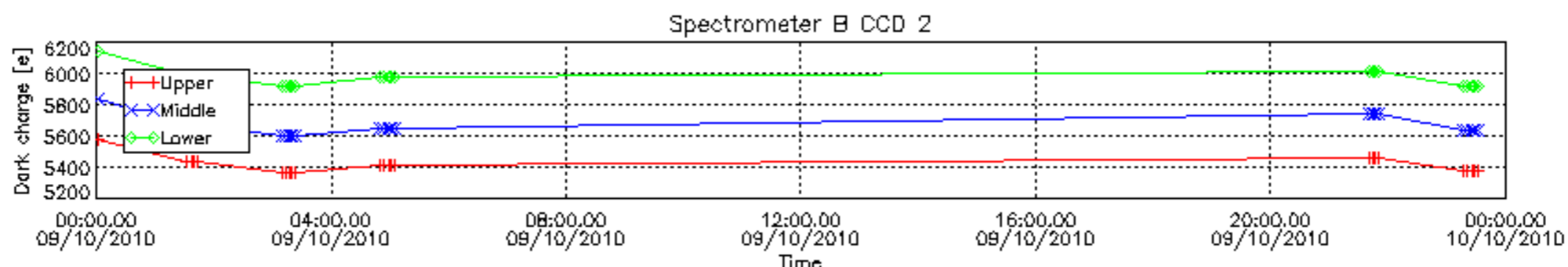
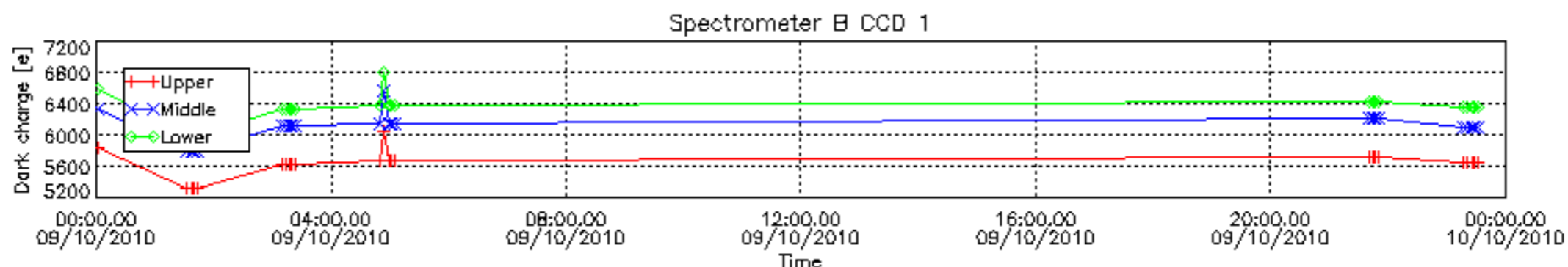
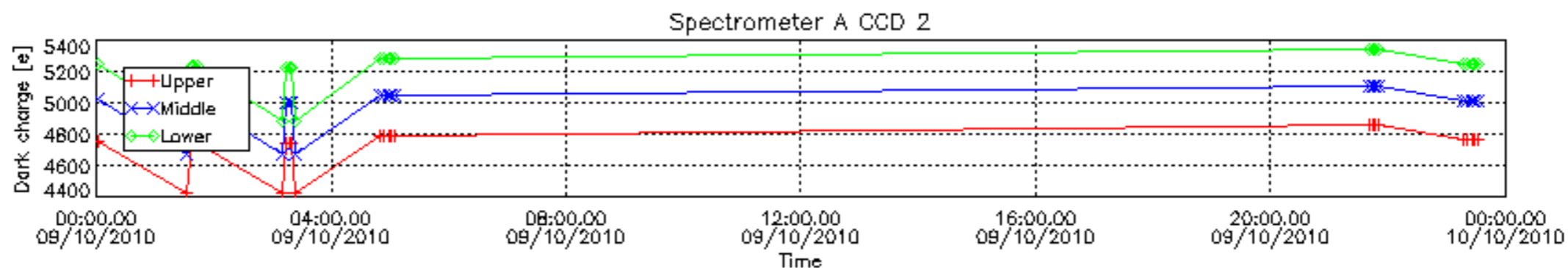
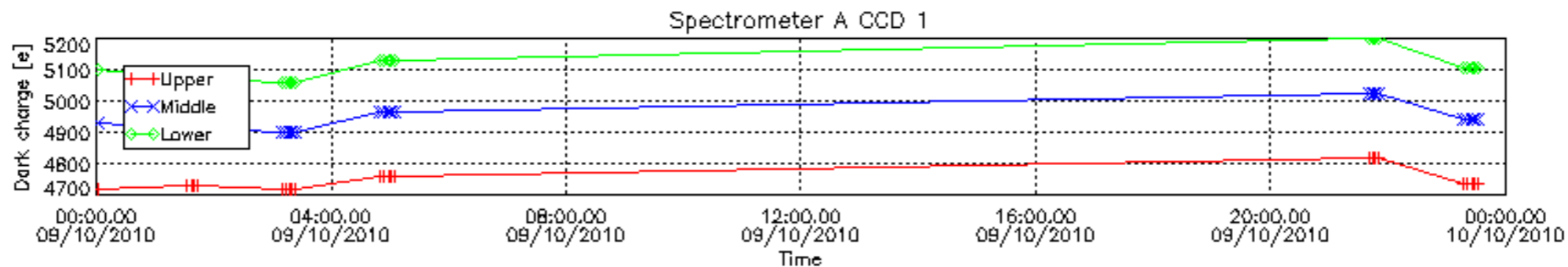
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

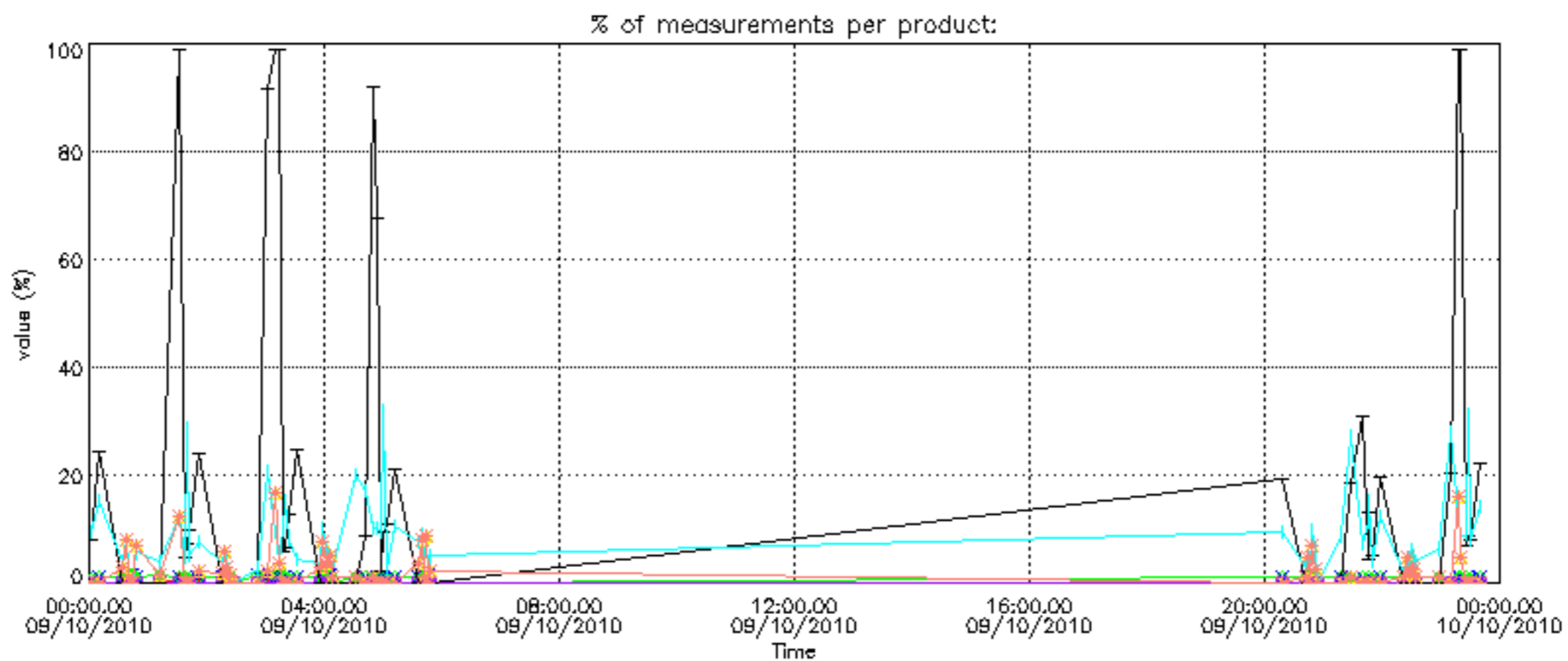
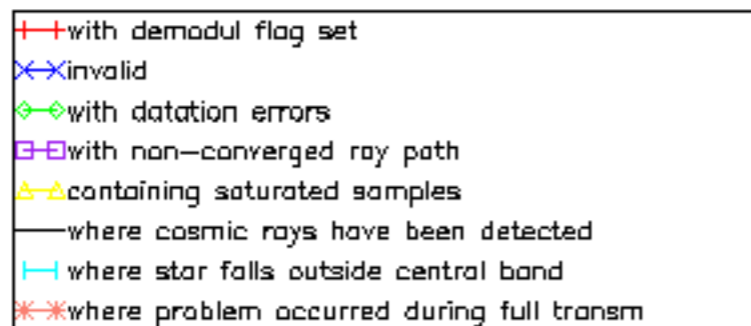
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-OCT-2010 00:02:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	09-OCT-2010 00:02:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	09-OCT-2010 00:02:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-OCT-2010 00:02:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	09-OCT-2010 00:02:09
ECMWF_FILE	AUX_ECF_AXNECM20101008_054114_20101008_210000_20101009_090000	1	09-OCT-2010 00:02:09
ECMWF_FILE	AUX_ECF_AXNECM20101008_172114_20101009_030000_20101009_150000	36	09-OCT-2010 04:32:18
ECMWF_FILE	AUX_ECF_AXNECM20101009_054114_20101009_150000_20101010_030000	50	09-OCT-2010 20:18:02
ECMWF_FILE	AUX_ECF_AXNECM20101009_054115_20101009_210000_20101010_090000	58	09-OCT-2010 21:28:25
OPTIONAL_ECMWF_FILE	MISSING	1	09-OCT-2010 00:02:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101008_233952_000057382093_00359_45002_1224.N1	1	09-OCT-2010 00:02:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_012049_000038252093_00360_45003_1225.N1	10	09-OCT-2010 01:21:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_022953_000060572093_00361_45004_1226.N1	22	09-OCT-2010 02:51:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_041050_000057382093_00362_45005_1227.N1	36	09-OCT-2010 04:32:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_201231_000041442093_00372_45015_1228.N1	50	09-OCT-2010 20:18:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_212654_000057382093_00372_45015_1229.N1	58	09-OCT-2010 21:28:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101009_230751_000057382093_00373_45016_1230.N1	72	09-OCT-2010 23:17:06



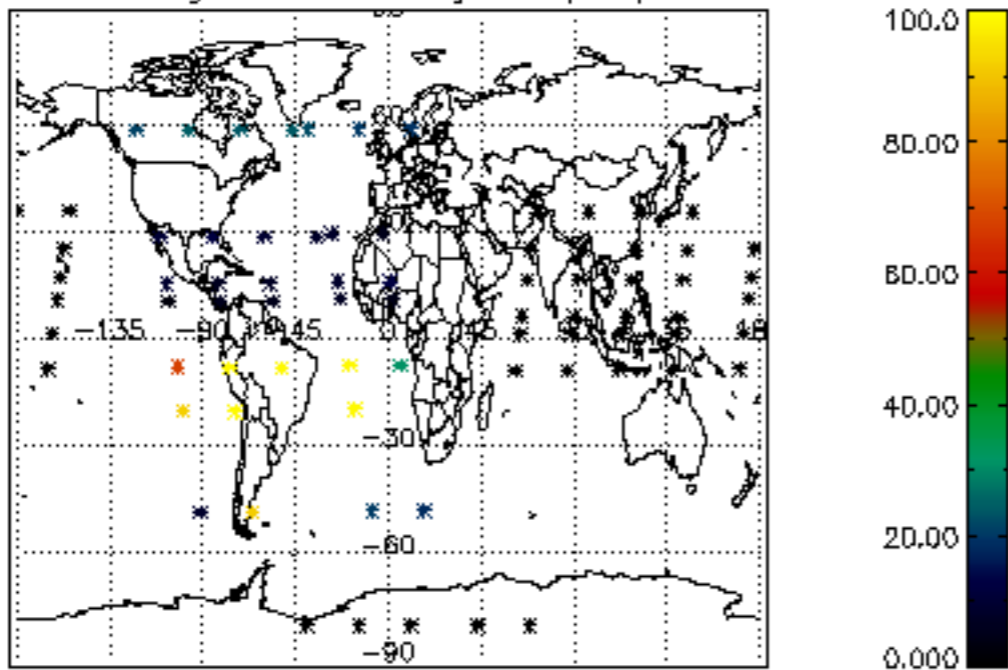




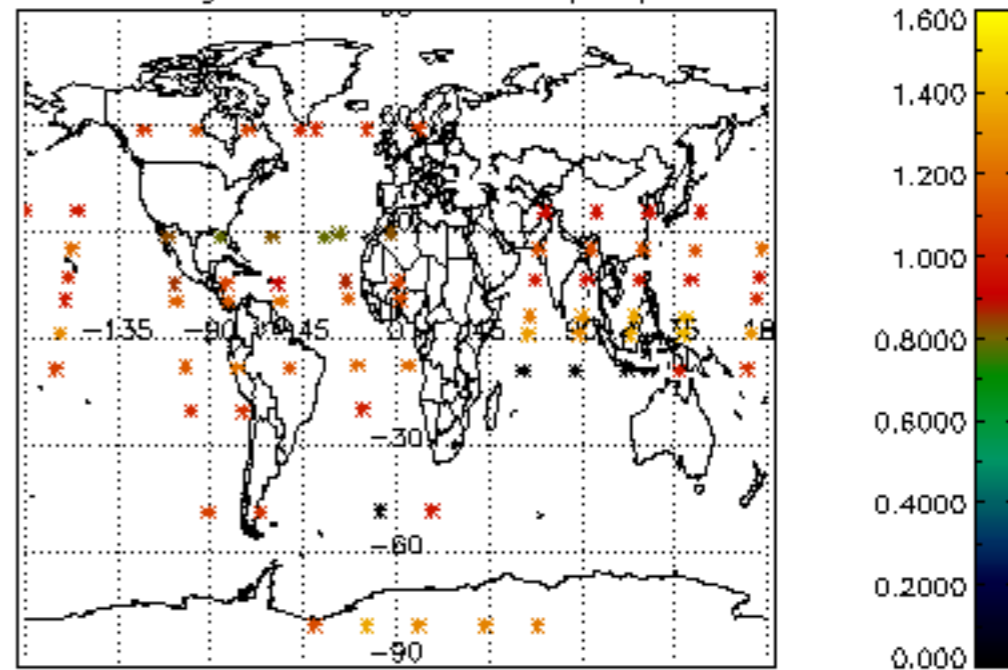




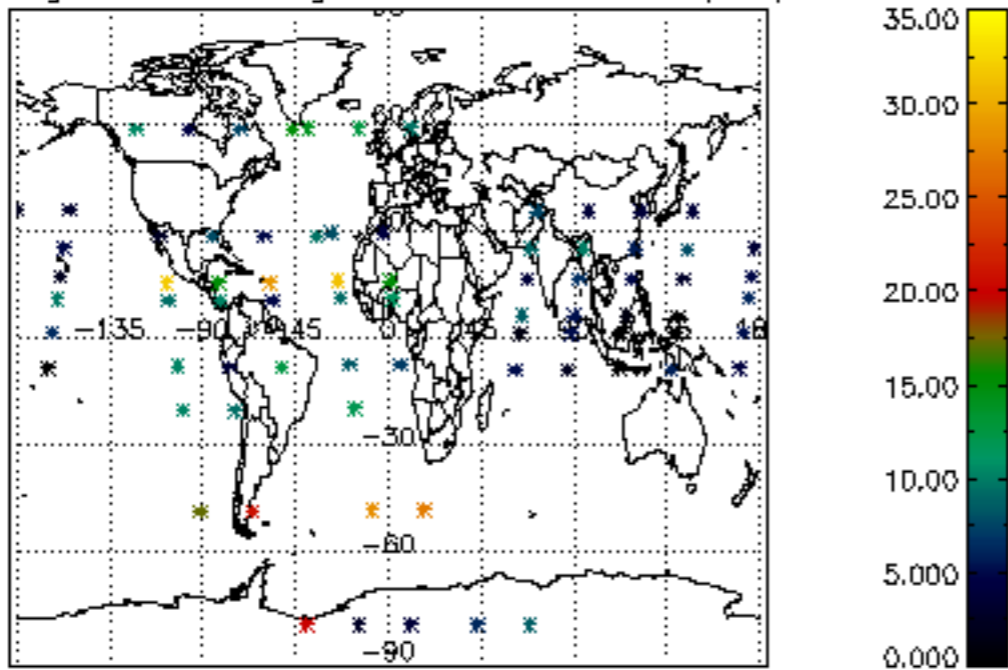
Percentage of cosmic ray hits per profile



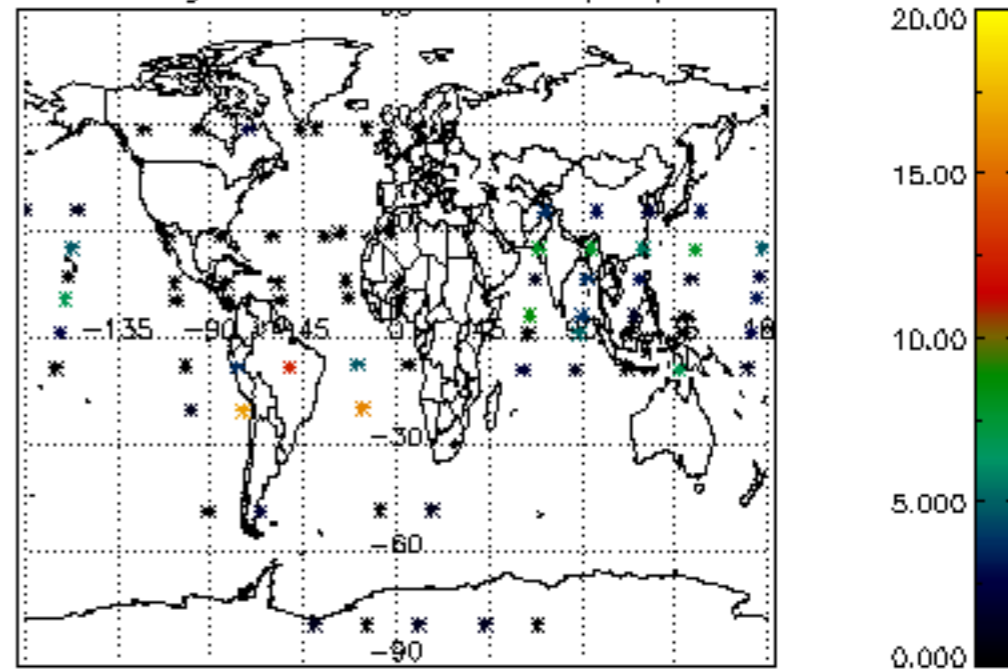
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

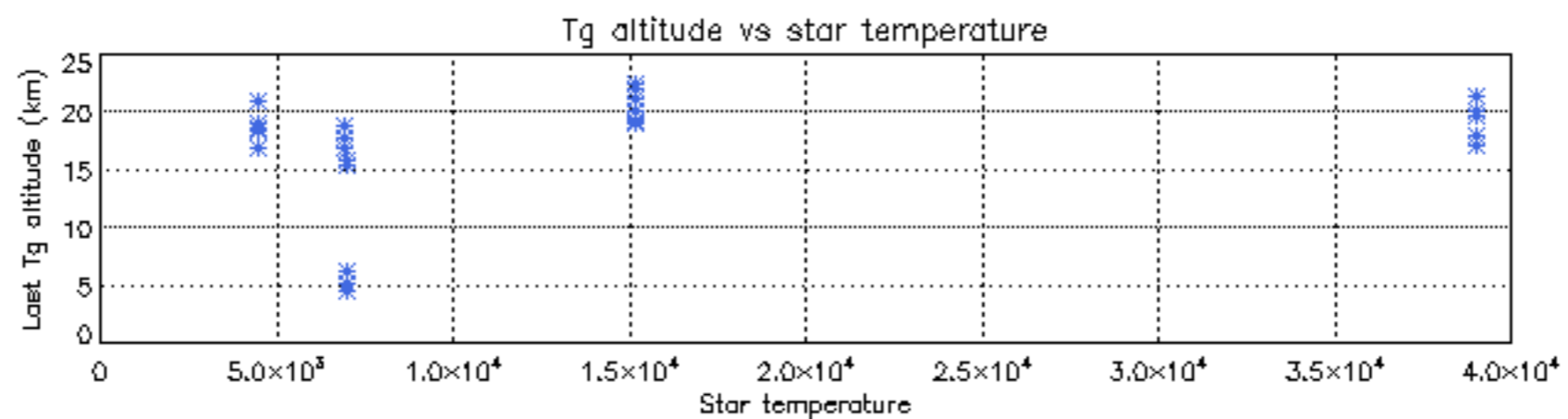
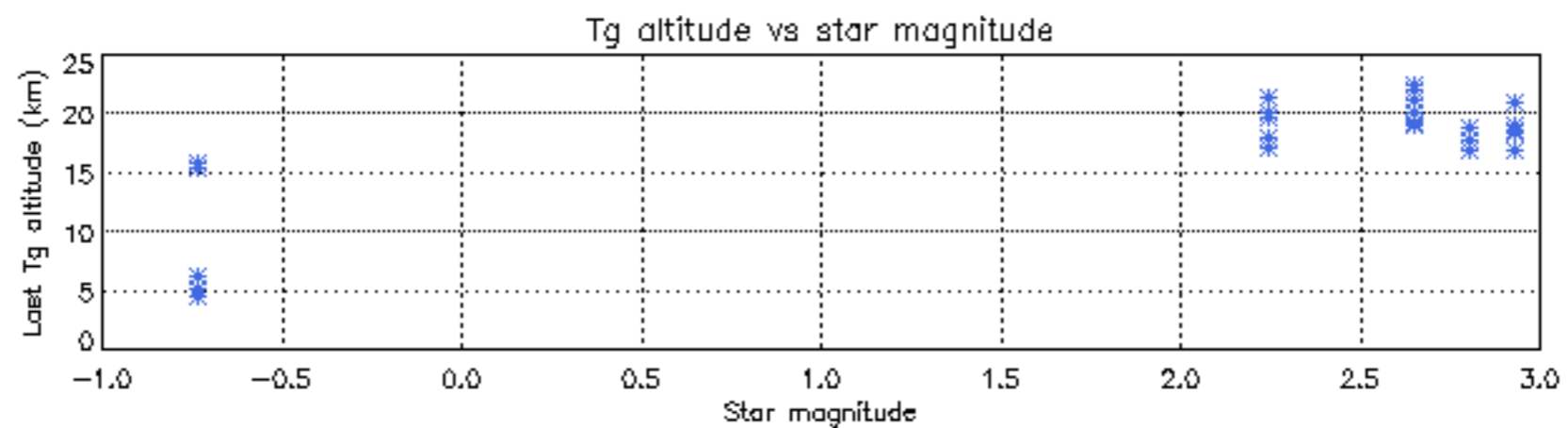
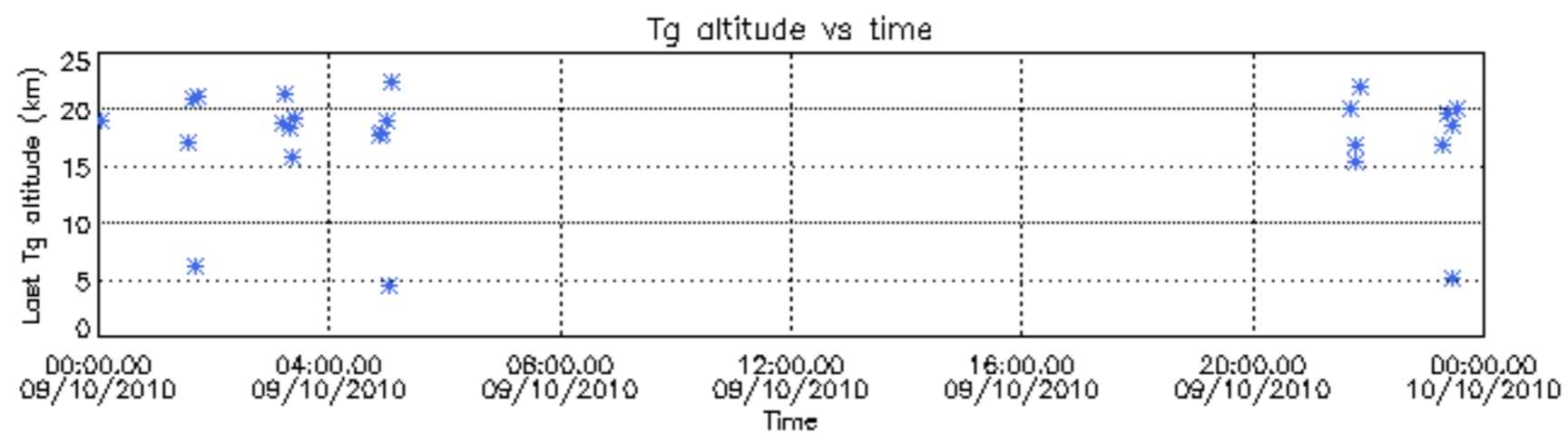


Percentage of saturation errors per profile

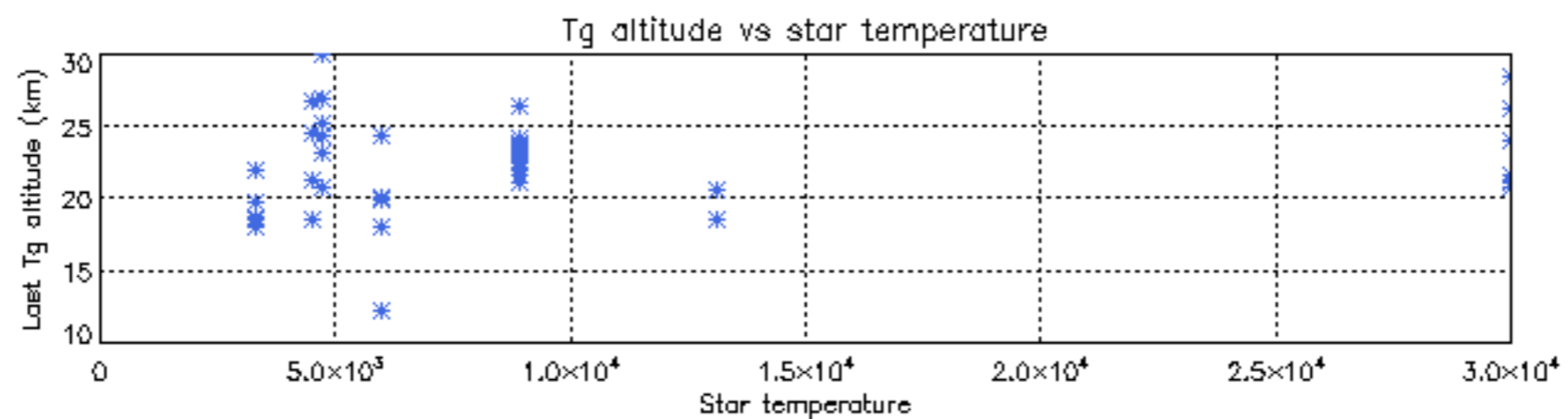
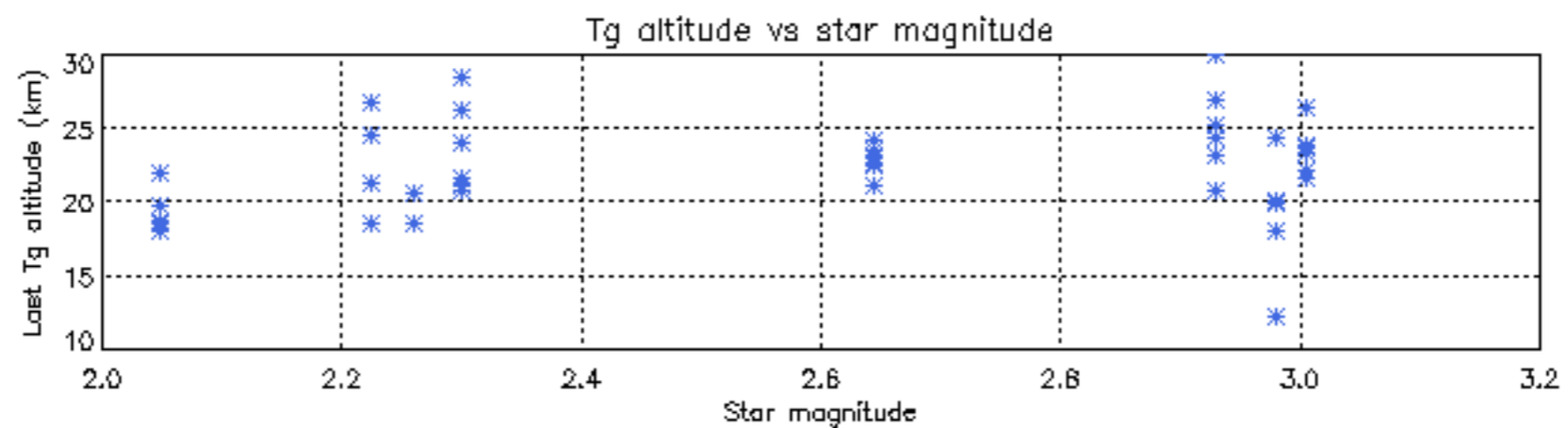
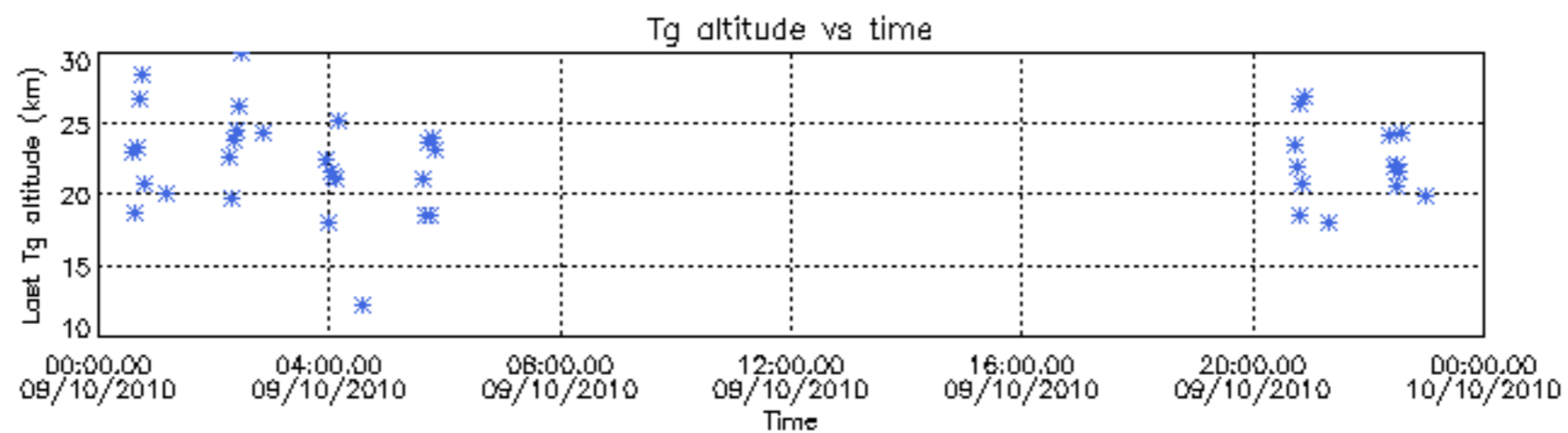




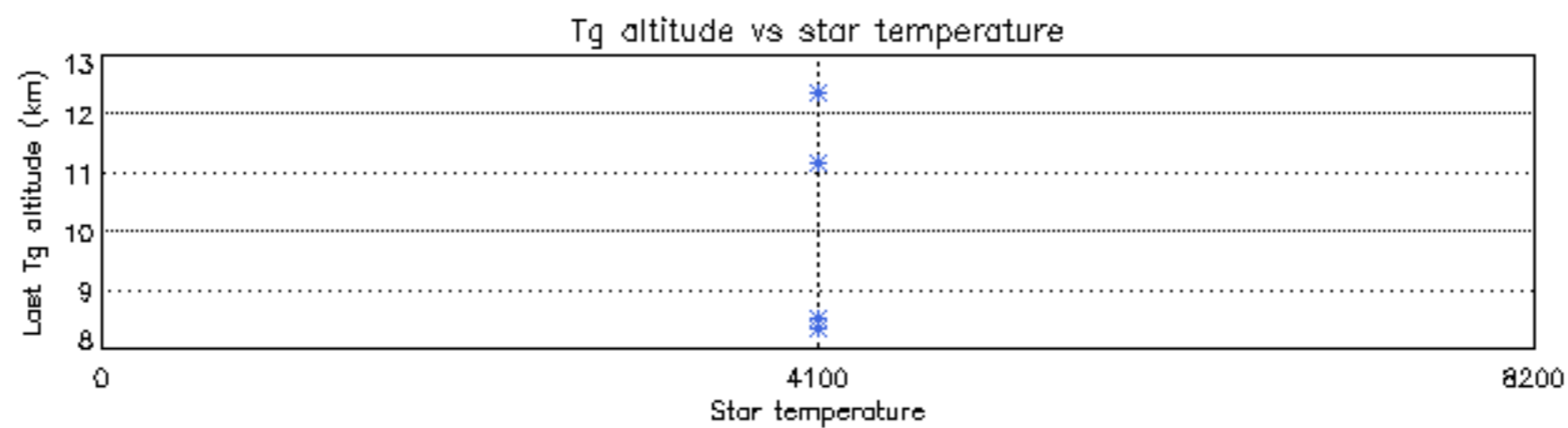
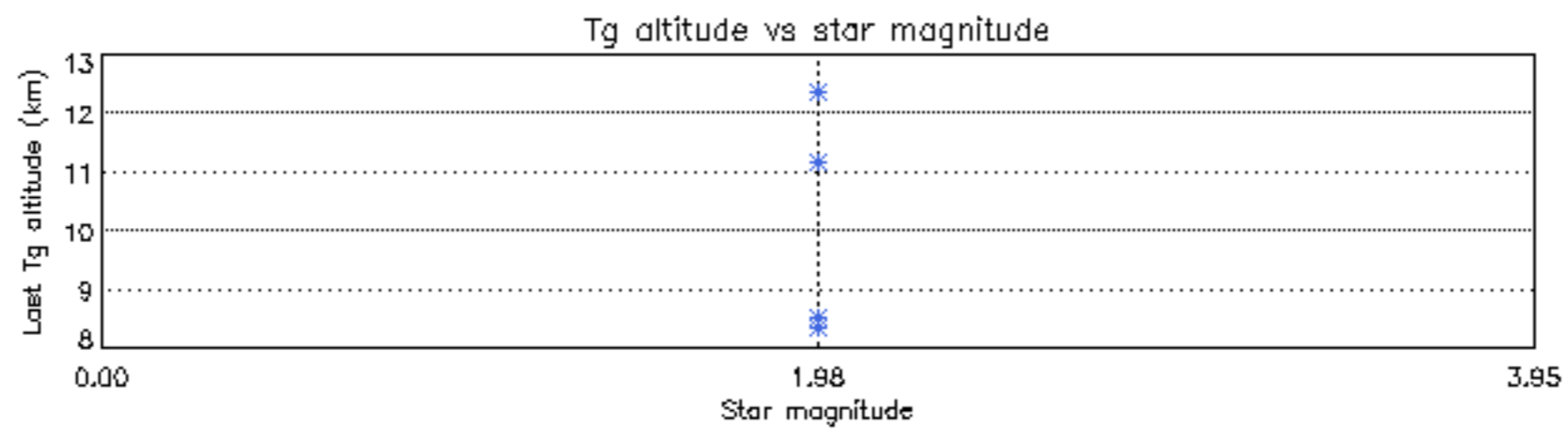
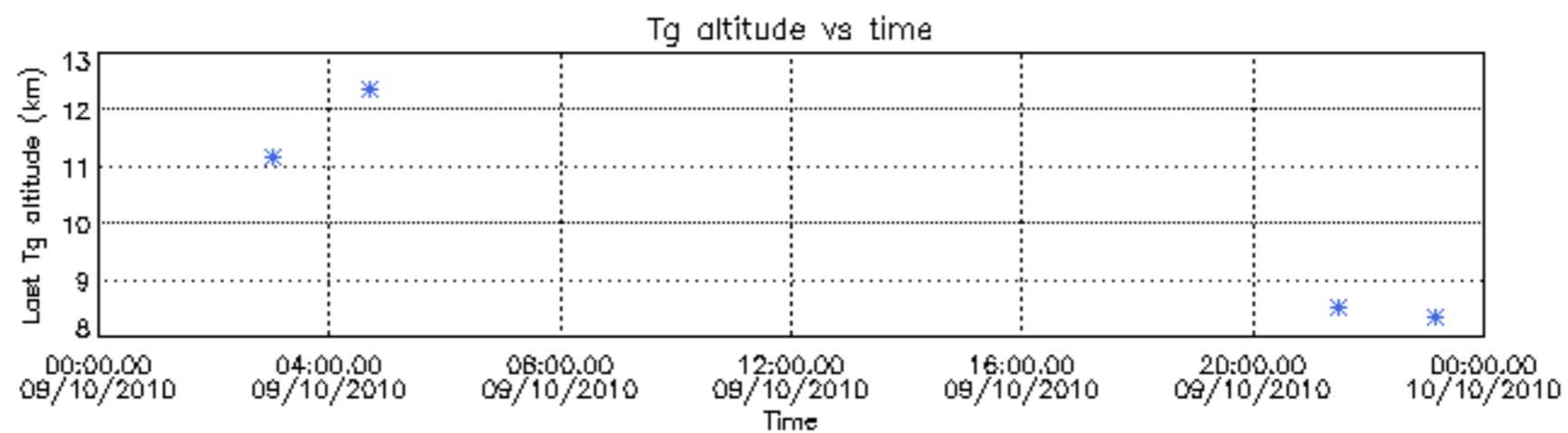
Tangent altitude at which the star is lost

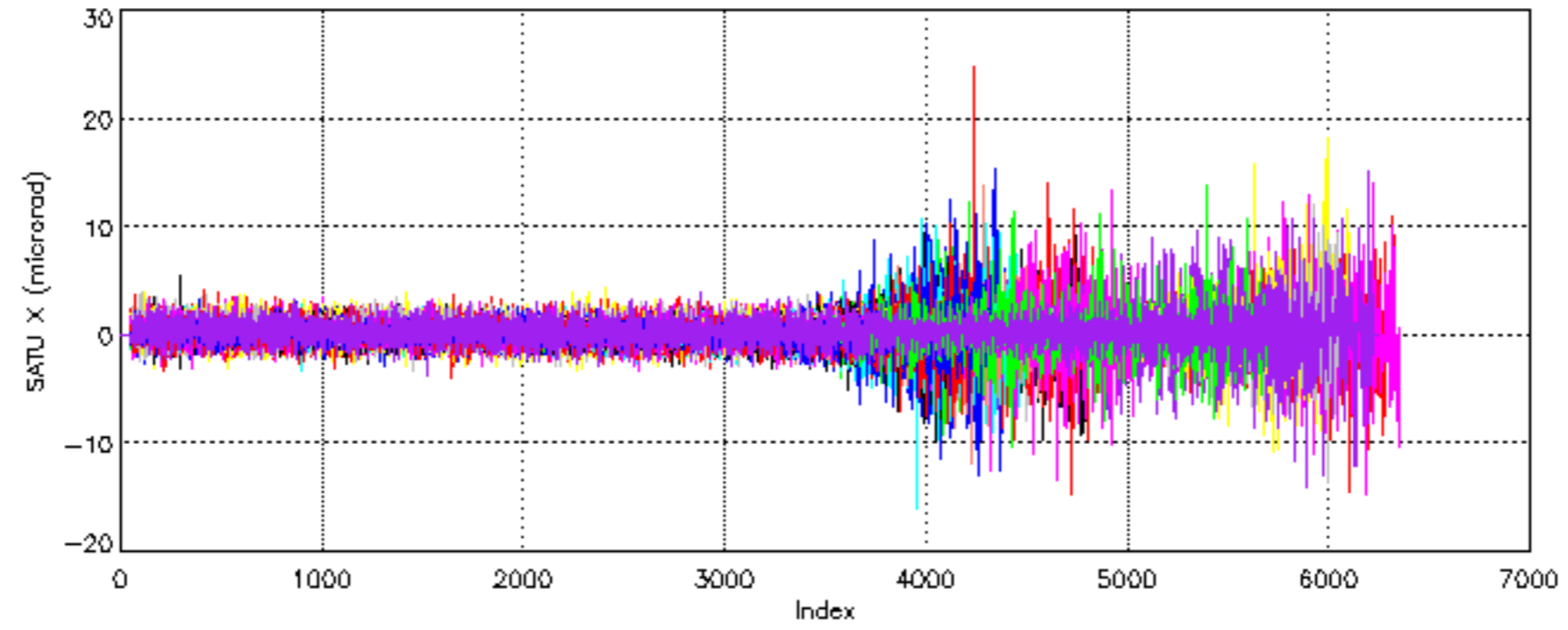


Tangent altitude at which the star is lost

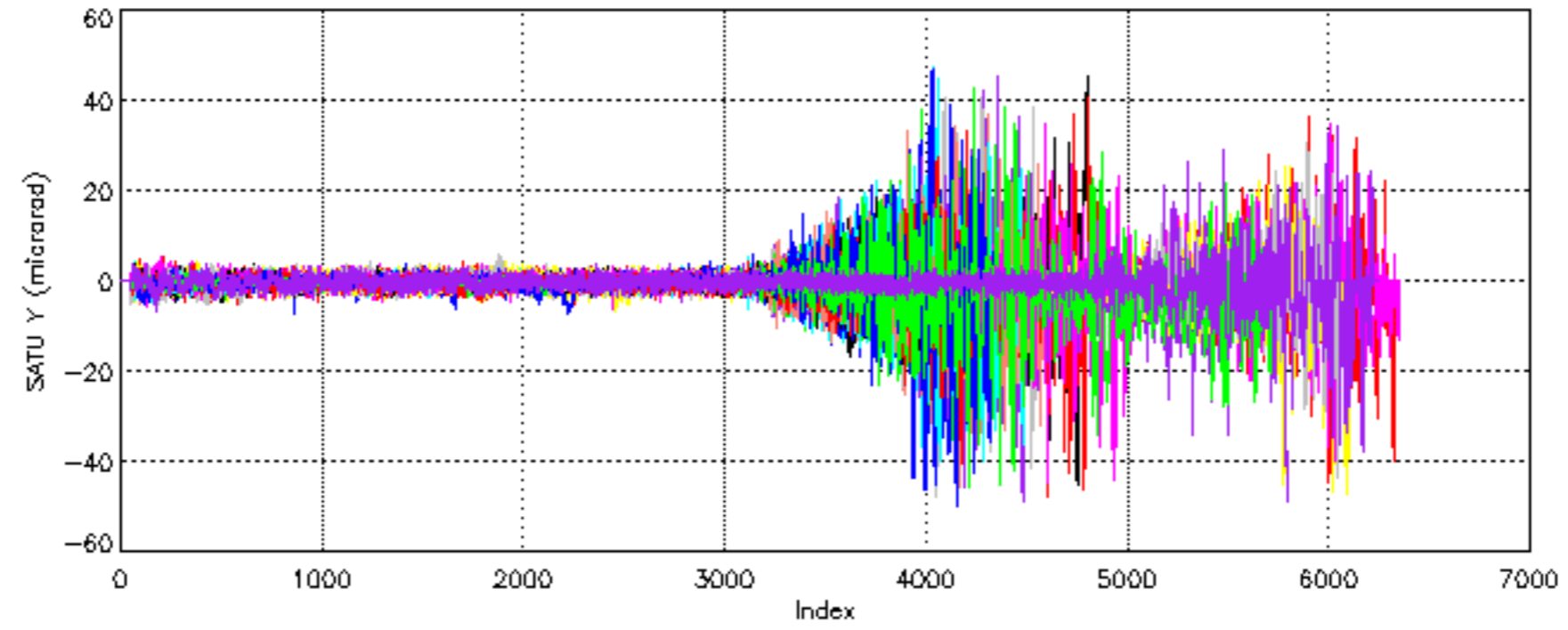


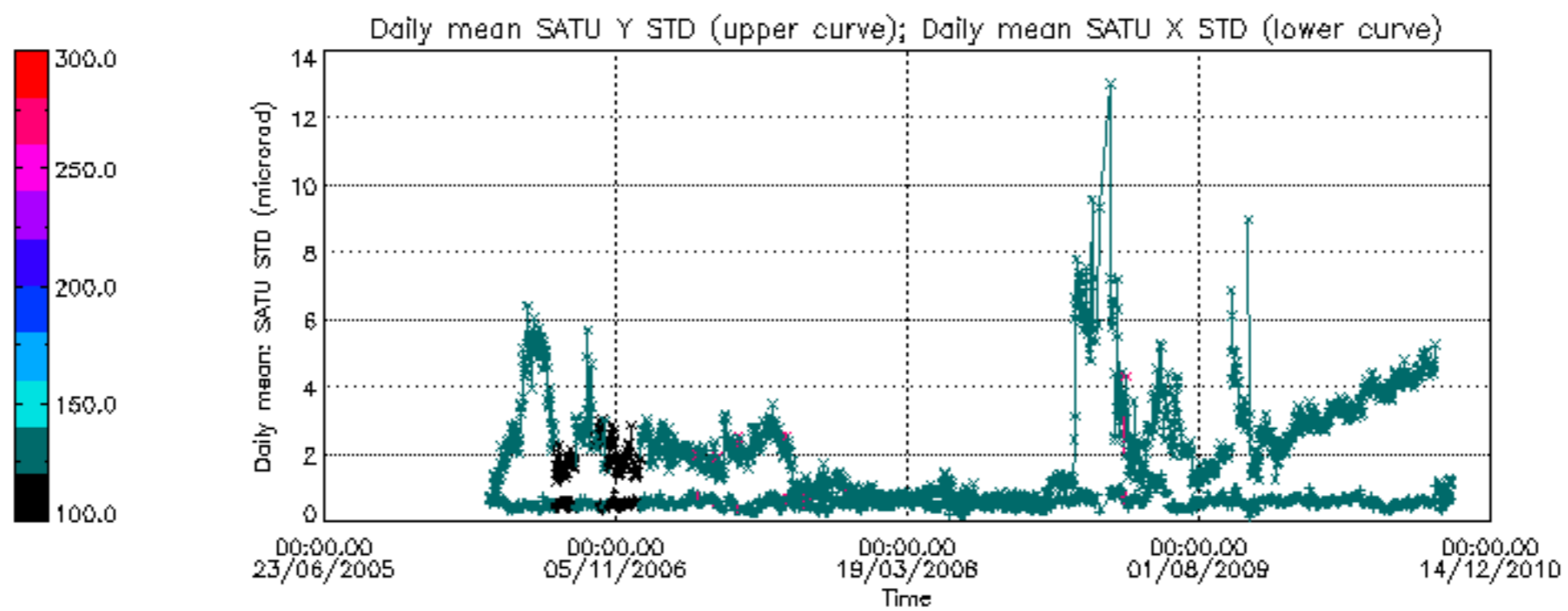
Tangent altitude at which the star is lost











/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

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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

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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  
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 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

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1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 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
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5; 179.5; 02-OCT-2010 01:57:59; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;44904
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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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8; 5603.8; 02-OCT-2010 16:53:11; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 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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9; 6971.1; 03-OCT-2010 05:00:09; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44919
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7; 3196.4; 06-OCT-2010 17:27:46; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;44970
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3; 2746.2; 08-OCT-2010 09:34:38; Bright; 52.5; 173; 4Bet Tri ; 3.00; 8900;occ; 105; 0;44994
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6; 3174.5; 08-OCT-2010 09:41:47; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;44994
7; 4608.6; 08-OCT-2010 10:05:41; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;44994
8; 5680.9; 08-OCT-2010 10:23:33; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;44994
9; 5891.0; 08-OCT-2010 10:27:03; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;44994
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13; 6501.0; 08-OCT-2010 13:58:25; Dark ; 62.5; 108; Alp Col ; 2.65; 15200;occ; 125; 0;44996
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14; 6610.5; 13-OCT-2010 16:23:56; Dark ; 64.5; 108; Alp Col ; 2.65; 15200;occ; 129; 0;45069
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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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 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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12; 6140.1; 13-OCT-2010 19:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45071
13; 6266.2; 13-OCT-2010 19:39:23; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 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
 8; 1029.6; 14-OCT-2010 00:54:30; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;45075
 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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 5; 233.3; 14-OCT-2010 02:21:50; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;45076  
 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  
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 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  
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 12; 2782.7; 14-OCT-2010 03:04:19; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45076  
 13; 2973.9; 14-OCT-2010 03:07:30; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 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  
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 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  
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 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  
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 8; 586.4; 14-OCT-2010 05:48:55; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45078  
 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 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  
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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  
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 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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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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5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
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5; 48.9; 20-OCT-2010 09:12:38; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45166
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
8; 1074.5; 20-OCT-2010 09:29:43; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;45166
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5; 4650.9; 20-OCT-2010 10:29:20; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45166
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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3; 2728.1; 20-OCT-2010 11:37:53; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45167
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4; 2969.3; 20-OCT-2010 13:22:30; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45168
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4; 2965.7; 21-OCT-2010 14:31:25; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;45183
5; 3076.9; 21-OCT-2010 14:33:16; Bright; 47.0; 175; 39Del Per ; 3.01; 19400;occ; 94; 0;45183
6; 4655.9; 21-OCT-2010 14:59:35; Bright; 46.5; 166; 17Eps Leo ; 2.98; 6000;occ; 93; 0;45183
7; 4860.2; 21-OCT-2010 15:02:59; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;45183
8; 5335.9; 21-OCT-2010 15:10:55; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;45183
9; 5921.1; 21-OCT-2010 15:20:40; Dark ; 59.0; 132; 15Rho Pup ; 2.80; 6900;occ; 118; 0;45183

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 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
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