

GOMOS Daily Report 06-NOV-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	11NOV2009 09:48:22
Data source version	GOMOS/5.00L03
Start time of products	06NOV2009 01:30:47
Stop time of products	06NOV2009 23:58:10
Store outputs in DB	Yes
Nb of level 1b prods	60
Nb of prods with errors	0

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

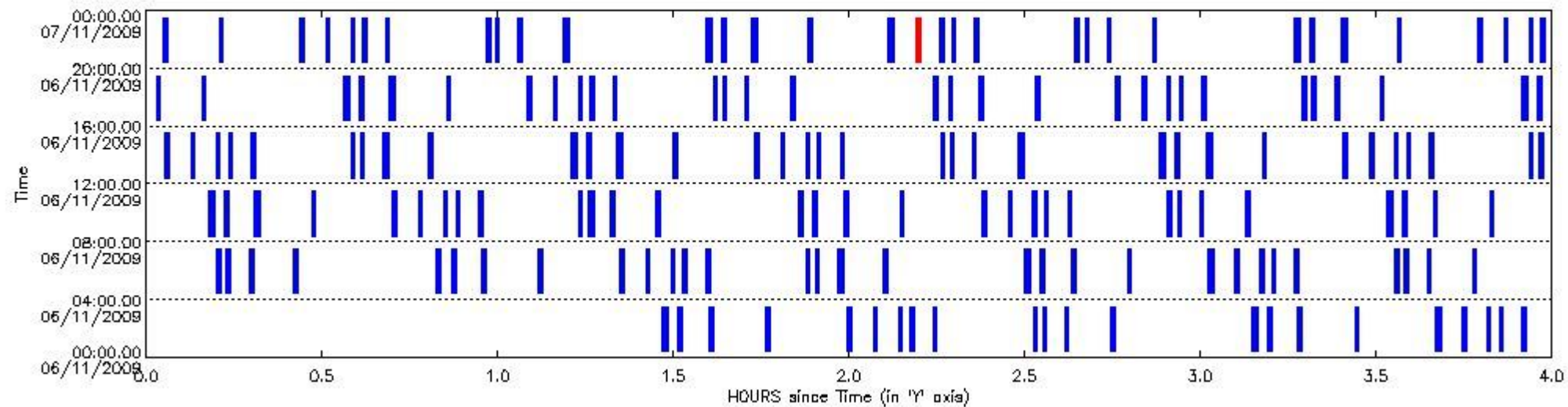
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

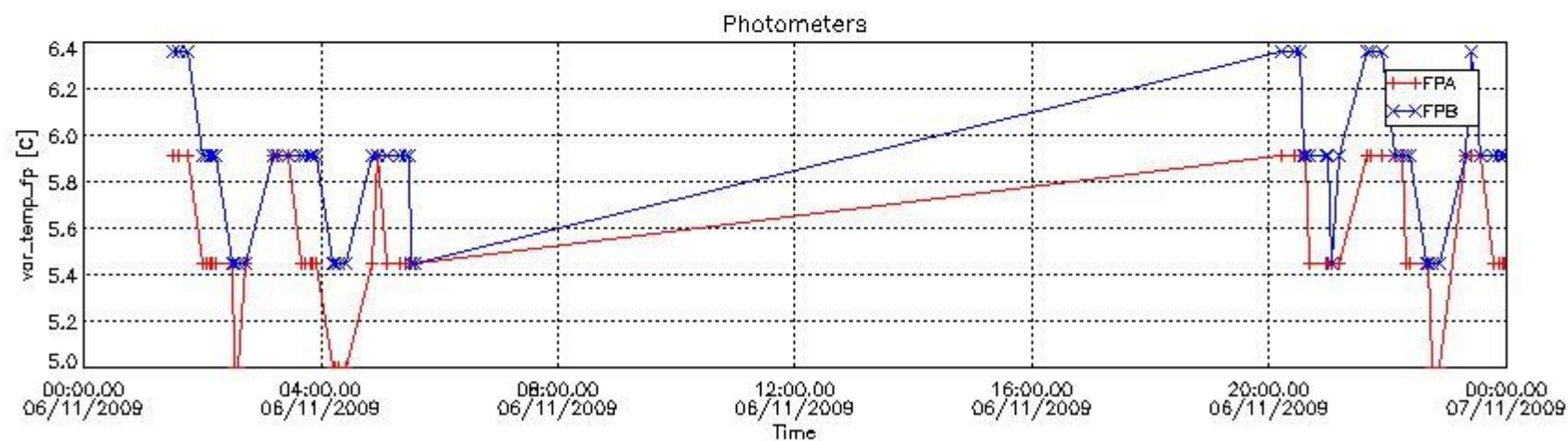
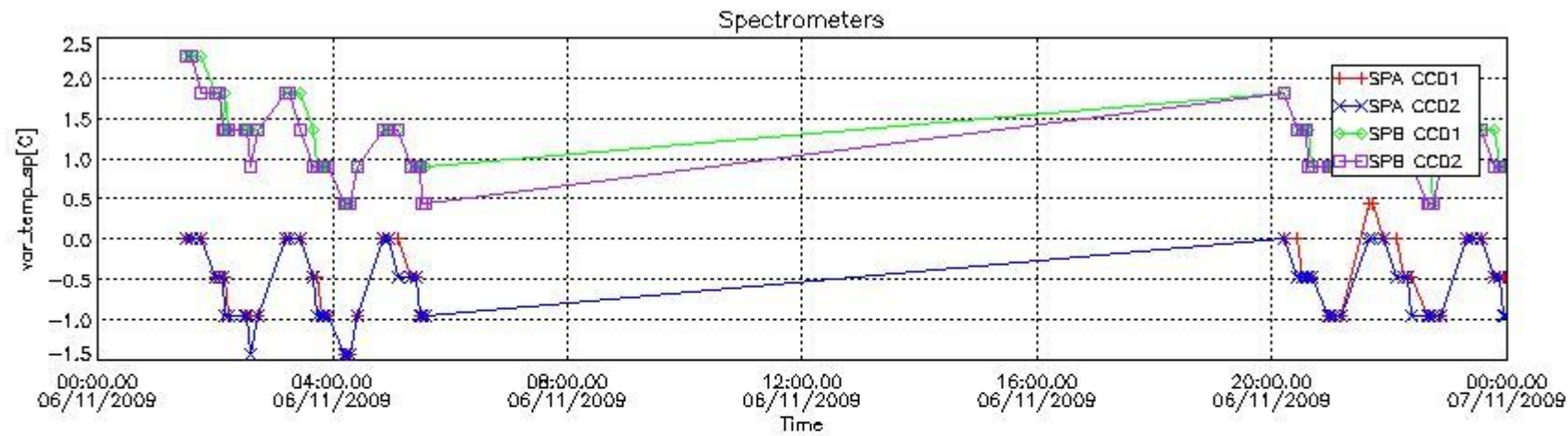
UTC start time	Star name	Star ID	Orbit
06-NOV-2009 22:11:21	6BetAri	105	40192

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_1PNPDE20091106_013047_000000482084_00046_40180_2787.N1	06-NOV-2009 01:30:47	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40180	No
2	GOM_TRA_1PNPDE20091106_013601_000000502084_00046_40180_2788.N1	06-NOV-2009 01:36:01	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40180	No
3	GOM_TRA_1PNPDE20091106_014546_000000402084_00046_40180_2789.N1	06-NOV-2009 01:45:46	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	40180	No
4	GOM_TRA_1PNPDE20091106_015934_000000522084_00046_40180_2790.N1	06-NOV-2009 01:59:34	Twilight_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40180	No
5	GOM_TRA_1PNPDE20091106_020406_000000382084_00046_40180_2791.N1	06-NOV-2009 02:04:06	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40180	No
6	GOM_TRA_1PNPDE20091106_020822_000000372084_00046_40180_2792.N1	06-NOV-2009 02:08:22	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40180	No
7	GOM_TRA_1PNPDE20091106_021025_000000402084_00046_40180_2793.N1	06-NOV-2009 02:10:25	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40180	No
8	GOM_TRA_1PNPDE20091106_021419_000000412084_00046_40180_2794.N1	06-NOV-2009 02:14:19	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40180	No
9	GOM_TRA_1PNPDE20091106_023126_000000432084_00046_40180_2792.N1	06-NOV-2009 02:31:26	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40180	No
10	GOM_TRA_1PNPDE20091106_023303_000000392084_00046_40180_2793.N1	06-NOV-2009 02:33:03	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	40180	No

11	GOM_TRA_1PNPDE20091106_023651_000000382084_00046_40180_2794.N1	06-NOV-2009 02:36:51	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	40180	No
12	GOM_TRA_1PNPDE20091106_024435_000000602084_00046_40180_2795.N1	06-NOV-2009 02:44:35	Bright	60.000	96	68Del Leo	2.5600	9300.0	120	40180	No
13	GOM_TRA_1PNPDE20091106_031124_000000482084_00047_40181_2796.N1	06-NOV-2009 03:11:24	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40181	No
14	GOM_TRA_1PNPDE20091106_031638_000000502084_00047_40181_2797.N1	06-NOV-2009 03:16:38	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40181	No
15	GOM_TRA_1PNPDE20091106_032622_000000412084_00047_40181_2798.N1	06-NOV-2009 03:26:22	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	40181	No
16	GOM_TRA_1PNPDE20091106_034010_000000532084_00047_40181_2799.N1	06-NOV-2009 03:40:10	Tw_i_and_stray	52.500	94	92Alp Cet	2.5260	3100.0	105	40181	No
17	GOM_TRA_1PNPDE20091106_034443_000000382084_00047_40181_2800.N1	06-NOV-2009 03:44:43	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40181	No
18	GOM_TRA_1PNPDE20091106_034858_000000372084_00047_40181_2801.N1	06-NOV-2009 03:48:58	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40181	No
19	GOM_TRA_1PNPDE20091106_035101_000000392084_00047_40181_2802.N1	06-NOV-2009 03:51:01	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40181	No
20	GOM_TRA_1PNPDE20091106_035455_000000422084_00047_40181_2803.N1	06-NOV-2009 03:54:55	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	40181	No
21	GOM_TRA_1PNPDE20091106_041202_000000432084_00047_40181_2798.N1	06-NOV-2009 04:12:02	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40181	No
22	GOM_TRA_1PNPDE20091106_041339_000000362084_00047_40181_2799.N1	06-NOV-2009 04:13:39	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	40181	No
23	GOM_TRA_1PNPDE20091106_041727_000000582084_00047_40181_2800.N1	06-NOV-2009 04:17:27	Bright	58.000	174	52Psi UMa	3.0040	4400.0	116	40181	No
24	GOM_TRA_1PNPDE20091106_042511_000000502084_00047_40181_2801.N1	06-NOV-2009 04:25:11	Bright	49.500	96	68Del Leo	2.5600	9300.0	99	40181	No
25	GOM_TRA_1PNPDE20091106_045201_000000472084_00048_40182_2802.N1	06-NOV-2009 04:52:01	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40182	No
26	GOM_TRA_1PNPDE20091106_045714_000000502084_00048_40182_2803.N1	06-NOV-2009 04:57:14	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40182	No
27	GOM_TRA_1PNPDE20091106_050658_000000402084_00048_40182_2804.N1	06-NOV-2009 05:06:58	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	40182	No
28	GOM_TRA_1PNPDE20091106_052046_000000512084_00048_40182_2805.N1	06-NOV-2009 05:20:46	Tw_i_and_stray	51.000	94	92Alp Cet	2.5260	3100.0	102	40182	No
29	GOM_TRA_1PNPDE20091106_052518_000000372084_00048_40182_2806.N1	06-NOV-2009 05:25:18	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	40182	No
30	GOM_TRA_1PNPDE20091106_052933_000000382084_00048_40182_2807.N1	06-NOV-2009 05:29:33	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40182	No
31	GOM_TRA_1PNPDE20091106_053137_000000382084_00048_40182_2808.N1	06-NOV-2009 05:31:37	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40182	No
32	GOM_TRA_1PNPDE20091106_053530_000000432084_00048_40182_2809.N1	06-NOV-2009 05:35:30	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	40182	No
33	GOM_TRA_1PNPDE20091106_201225_000000402084_00057_40191_2852.N1	06-NOV-2009 20:12:25	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	40191	No
34	GOM_TRA_1PNPDE20091106_202607_000000522084_00057_40191_2853.N1	06-NOV-2009 20:26:07	Tw_i_and_stray	52.000	94	92Alp Cet	2.5260	3100.0	104	40191	No
35	GOM_TRA_1PNPDE20091106_203041_000000392084_00057_40191_2854.N1	06-NOV-2009 20:30:41	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40191	No
36	GOM_TRA_1PNPDE20091106_203455_000000372084_00057_40191_2855.N1	06-NOV-2009 20:34:55	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40191	No
37	GOM_TRA_1PNPDE20091106_203658_000000392084_00057_40191_2856.N1	06-NOV-2009 20:36:58	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40191	No
38	GOM_TRA_1PNPDE20091106_204049_000000402084_00057_40191_2857.N1	06-NOV-2009 20:40:49	Bright	39.500	35	33Alp Per	1.7950	6250.0	79	40191	No
39	GOM_TRA_1PNPDE20091106_205800_000000432084_00057_40191_2858.N1	06-NOV-2009 20:58:00	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40191	No
40	GOM_TRA_1PNPDE20091106_205937_000000402084_00057_40191_2859.N1	06-NOV-2009 20:59:37	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40191	No
41	GOM_TRA_1PNPDE20091106_210326_000000412084_00057_40191_2860.N1	06-NOV-2009 21:03:26	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	40191	No
42	GOM_TRA_1PNPDE20091106_211113_000000612084_00057_40191_2861.N1	06-NOV-2009 21:11:13	Bright	60.500	96	68Del Leo	2.5600	9300.0	121	40191	No
43	GOM_TRA_1PNPDE20091106_213810_000000472084_00058_40192_2857.N1	06-NOV-2009 21:38:10	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40192	No
44	GOM_TRA_1PNPDE20091106_214321_000000572084_00058_40192_2858.N1	06-NOV-2009 21:43:21	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	40192	No
45	GOM_TRA_1PNPDE20091106_215300_000000402084_00058_40192_2859.N1	06-NOV-2009 21:53:00	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	40192	No
46	GOM_TRA_1PNPDE20091106_220643_000000522084_00058_40192_2860.N1	06-NOV-2009 22:06:43	Tw_i_and_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40192	No
47	GOM_TRA_1PNPDE20091106_221531_000000392084_00058_40192_2861.N1	06-NOV-2009 22:15:31	Bright	38.500	173	4Bet Tri	3.0040	8900.0	77	40192	No
48	GOM_TRA_1PNPDE20091106_221734_000000402084_00058_40192_2862.N1	06-NOV-2009 22:17:34	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40192	No
49	GOM_TRA_1PNPDE20091106_222124_000000432084_00058_40192_2863.N1	06-NOV-2009 22:21:24	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	40192	No
50	GOM_TRA_1PNPDE20091106_223835_000000382084_00058_40192_2864.N1	06-NOV-2009 22:38:35	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	40192	No
51	GOM_TRA_1PNPDE20091106_224013_000000392084_00058_40192_2865.N1	06-NOV-2009 22:40:13	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	40192	No
52	GOM_TRA_1PNPDE20091106_224402_000000452084_00058_40192_2866.N1	06-NOV-2009 22:44:02	Bright	44.500	174	52Psi UMa	3.0040	4400.0	89	40192	No
53	GOM_TRA_1PNPDE20091106_225149_000000402084_00058_40192_2867.N1	06-NOV-2009 22:51:49	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	40192	No
54	GOM_TRA_1PNPDE20091106_231847_000000482084_00059_40193_2862.N1	06-NOV-2009 23:18:47	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40193	No
55	GOM_TRA_1PNPDE20091106_232358_000000622084_00059_40193_2863.N1	06-NOV-2009 23:23:58	Dark	61.500	2	Alp Car	-0.73600	7000.0	123	40193	No
56	GOM_TRA_1PNPDE20091106_233337_000000402084_00059_40193_2864.N1	06-NOV-2009 23:33:37	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	40193	No
57	GOM_TRA_1PNPDE20091106_234719_000000512084_00059_40193_2865.N1	06-NOV-2009 23:47:19	Tw_i_and_stray	51.000	94	92Alp Cet	2.5260	3100.0	102	40193	No
58	GOM_TRA_1PNPDE20091106_235153_000000362084_00059_40193_2866.N1	06-NOV-2009 23:51:53	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	40193	No
59	GOM_TRA_1PNPDE20091106_235607_000000372084_00059_40193_2867.N1	06-NOV-2009 23:56:07	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40193	No
60	GOM_TRA_1PNPDE20091106_235810_000000382084_00059_40193_2868.N1	06-NOV-2009 23:58:10	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40193	No

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



4. Overview of dark signal processing per product

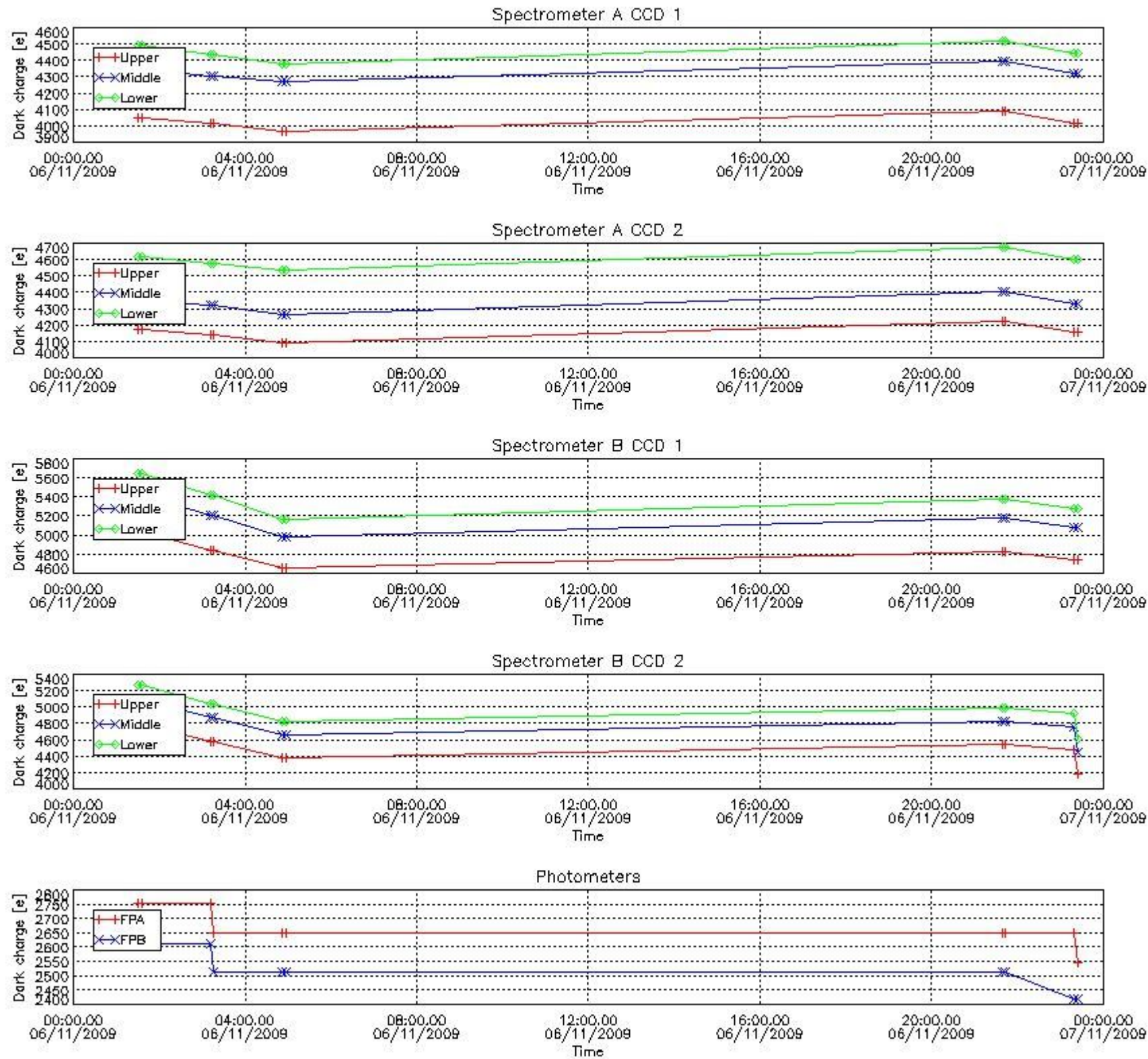
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091106_201225_000000402084_00057_40191_2852.N1	DC map used
GOM_TRA_1PNPDE20091106_202607_000000522084_00057_40191_2853.N1	DC map used
GOM_TRA_1PNPDE20091106_203041_000000392084_00057_40191_2854.N1	DC map used
GOM_TRA_1PNPDE20091106_203455_000000372084_00057_40191_2855.N1	DC map used
GOM_TRA_1PNPDE20091106_203658_000000392084_00057_40191_2856.N1	DC map used
GOM_TRA_1PNPDE20091106_204049_000000402084_00057_40191_2857.N1	DC map used
GOM_TRA_1PNPDE20091106_205800_000000432084_00057_40191_2858.N1	DC map used
GOM_TRA_1PNPDE20091106_205937_000000402084_00057_40191_2859.N1	DC map used
GOM_TRA_1PNPDE20091106_210326_000000412084_00057_40191_2860.N1	DC map used
GOM_TRA_1PNPDE20091106_211113_000000612084_00057_40191_2861.N1	DC map used

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



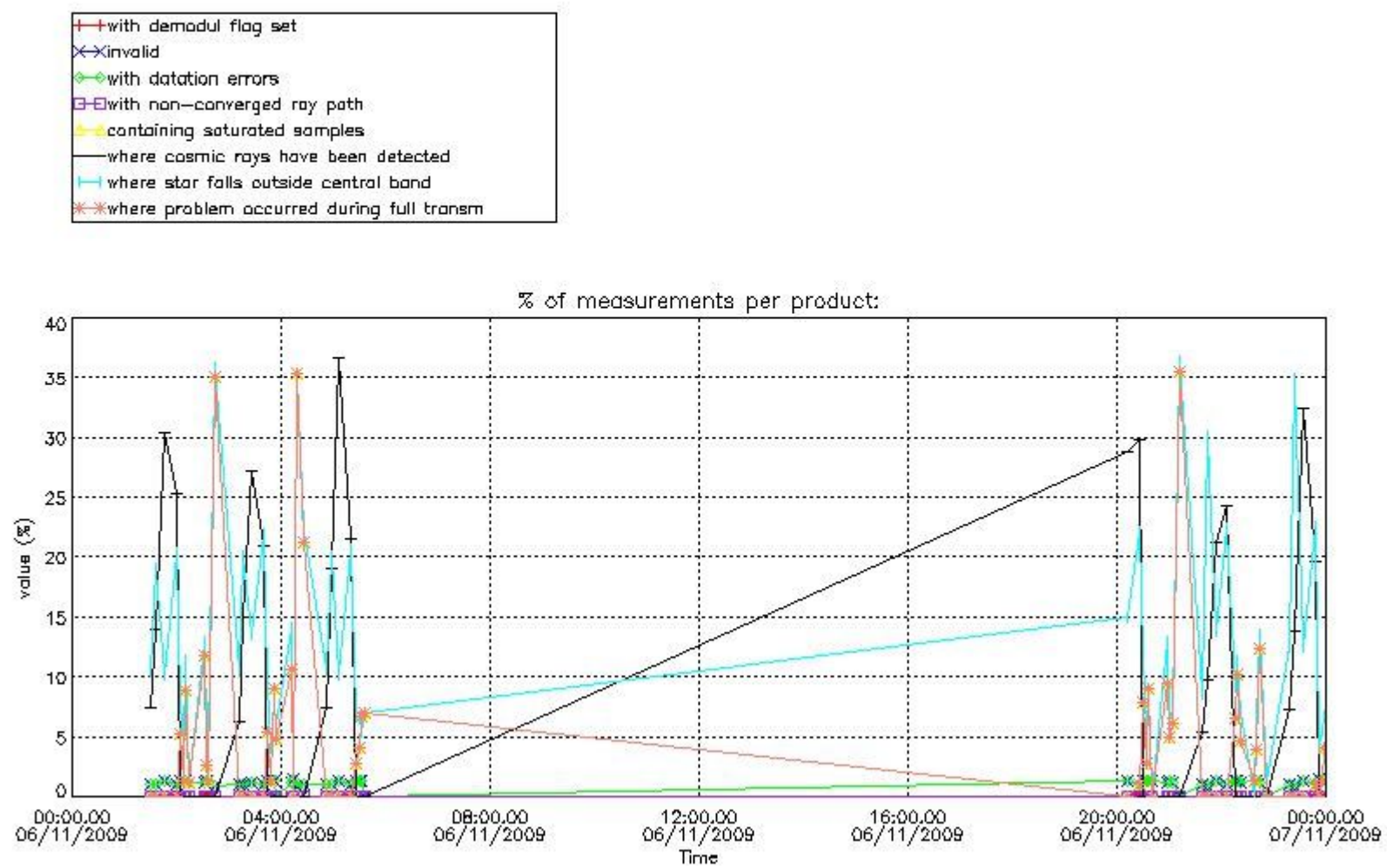
5. Demodulation flag and quality information monitoring

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.

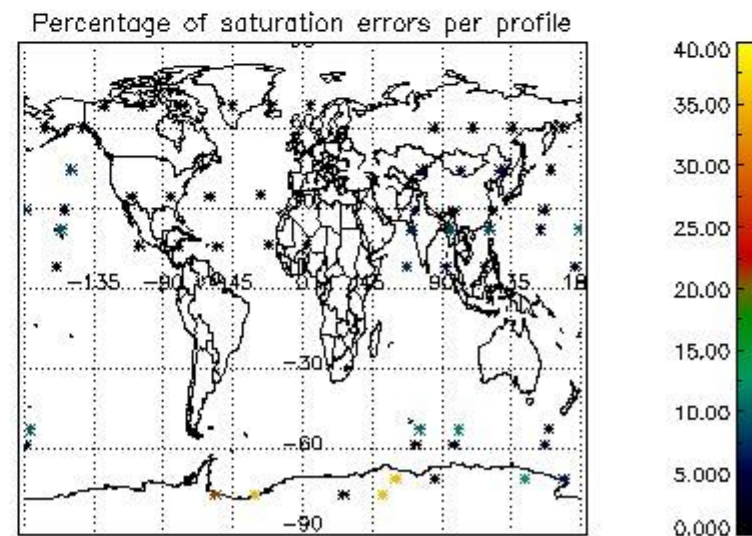
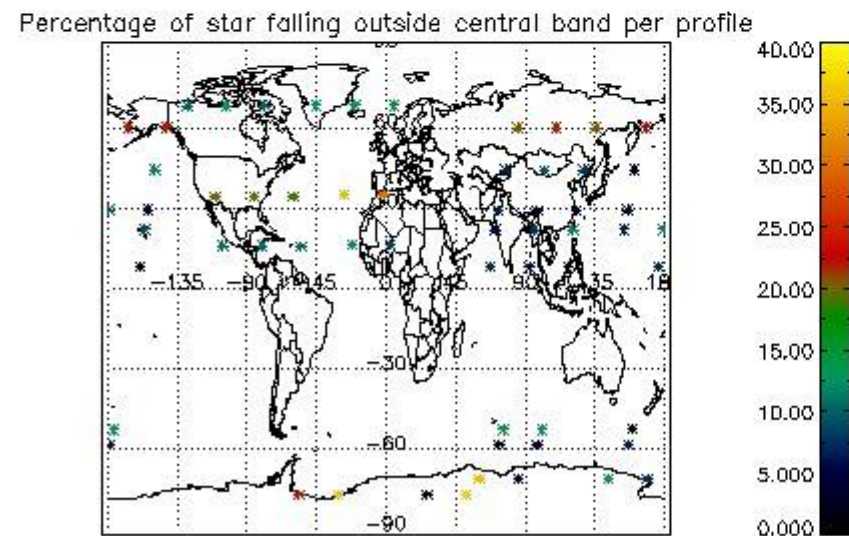
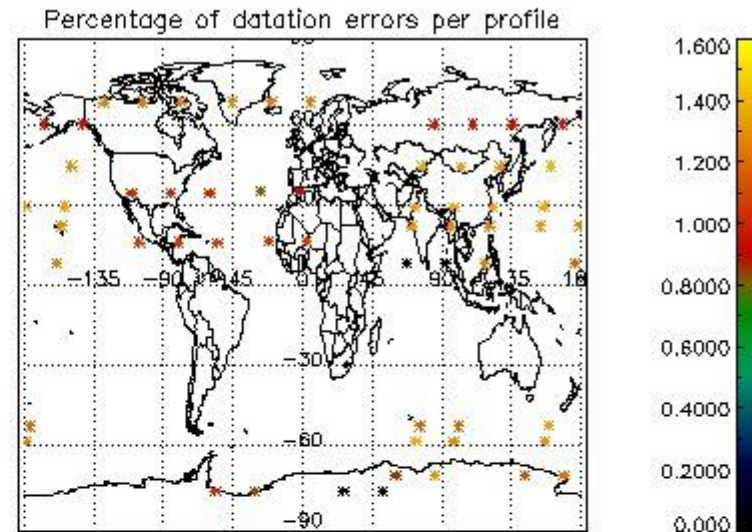
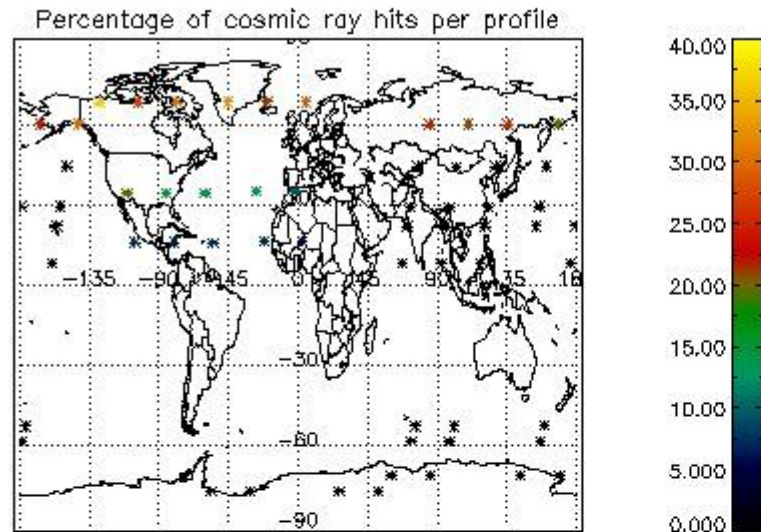
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.3333 %
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)



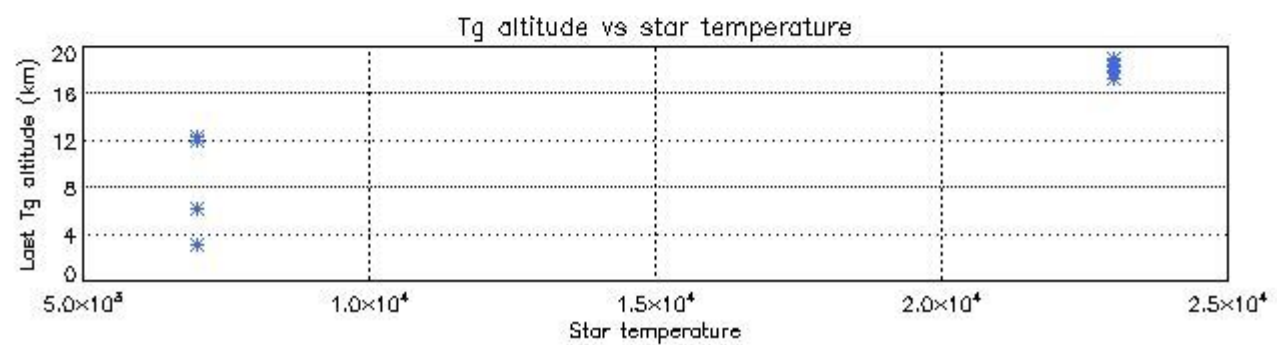
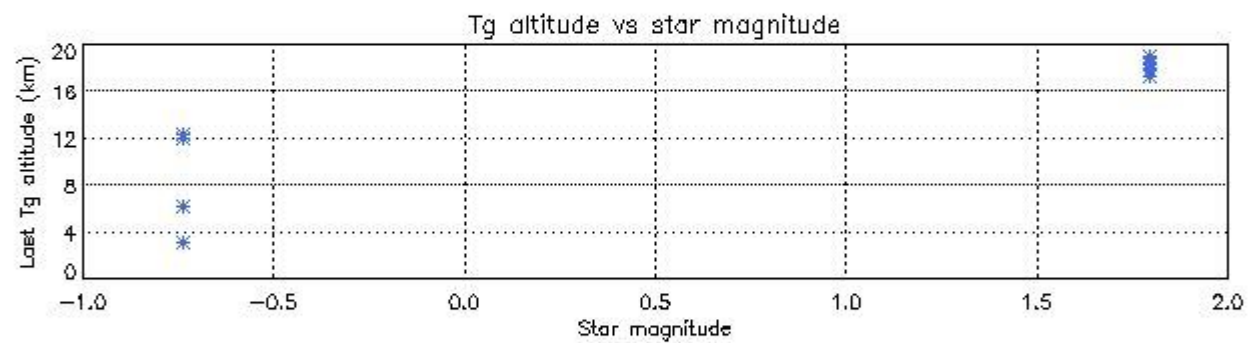
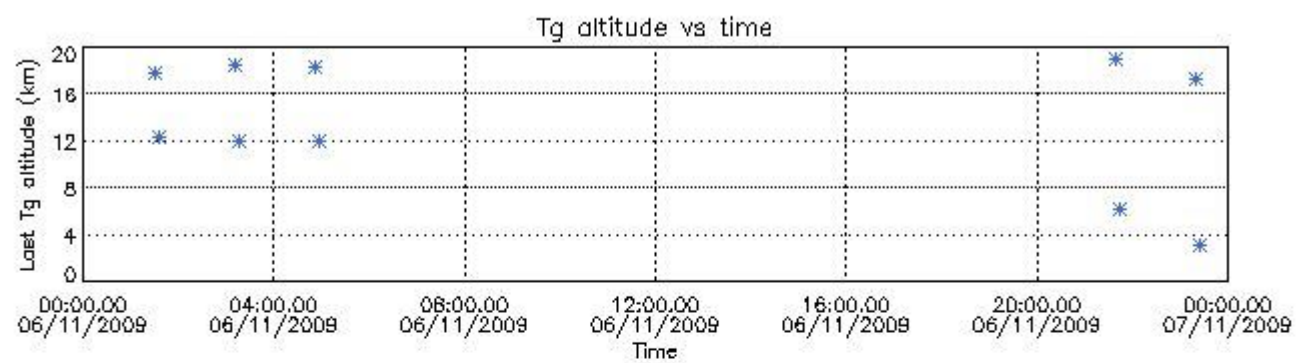
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.629	19.113	NaN
St. deviation:	5.5506	5.4403	NaN
Maximum:	19.058	27.316	NaN
Minimum:	3.1334	4.0562	NaN
Number of data:	10.000	38.000	NaN

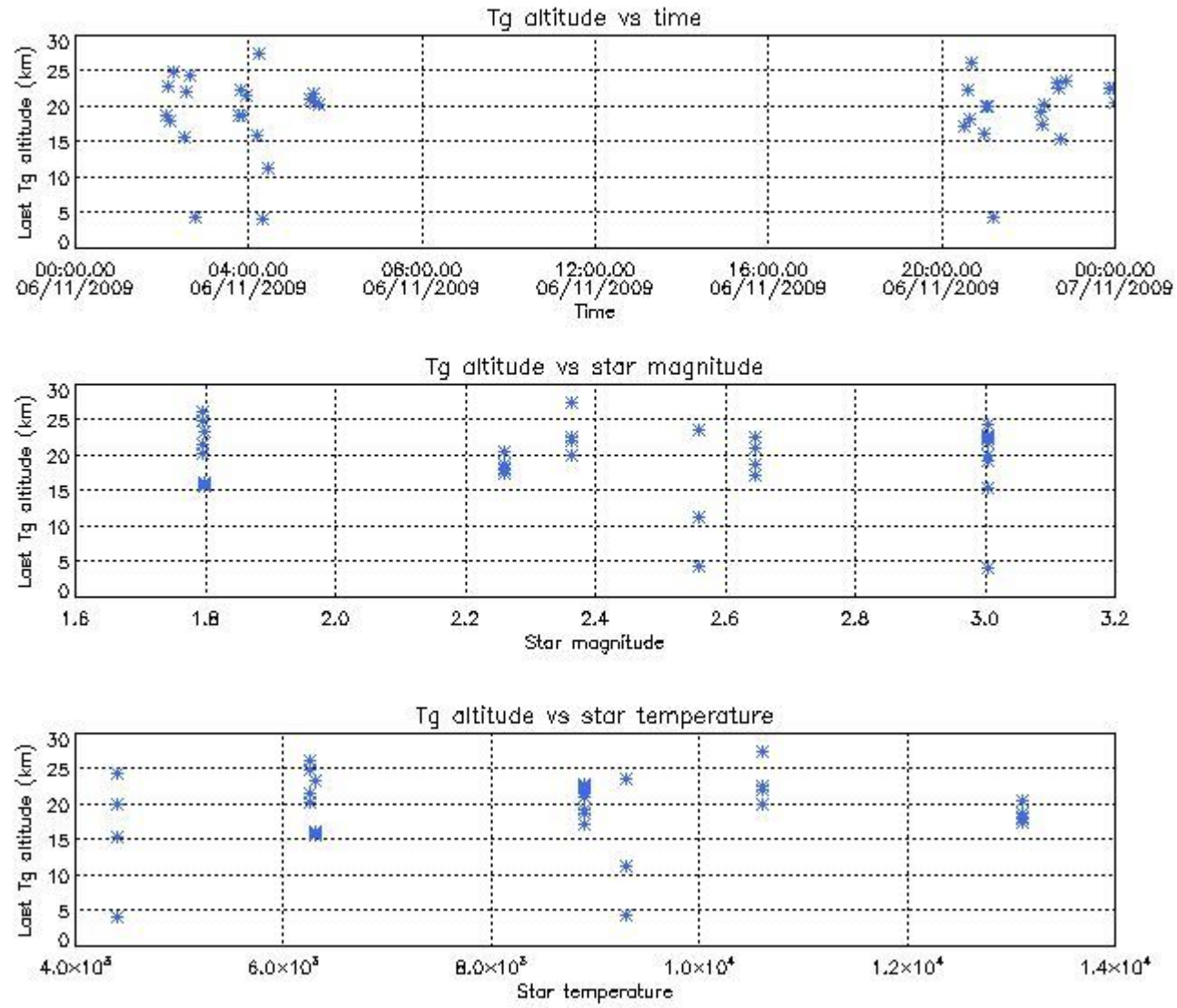
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

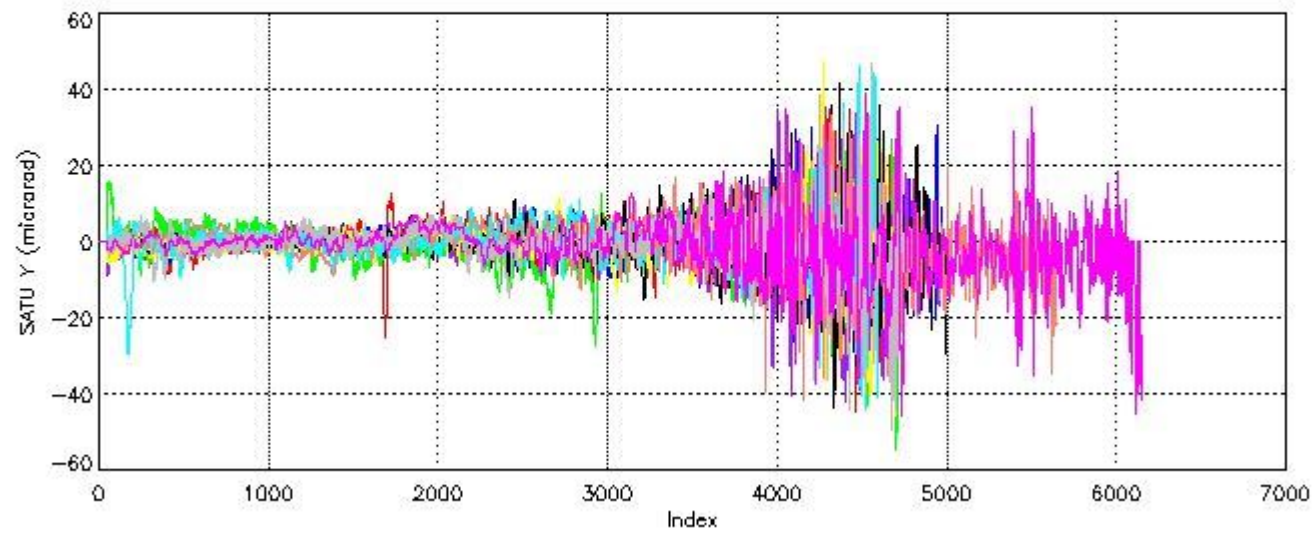
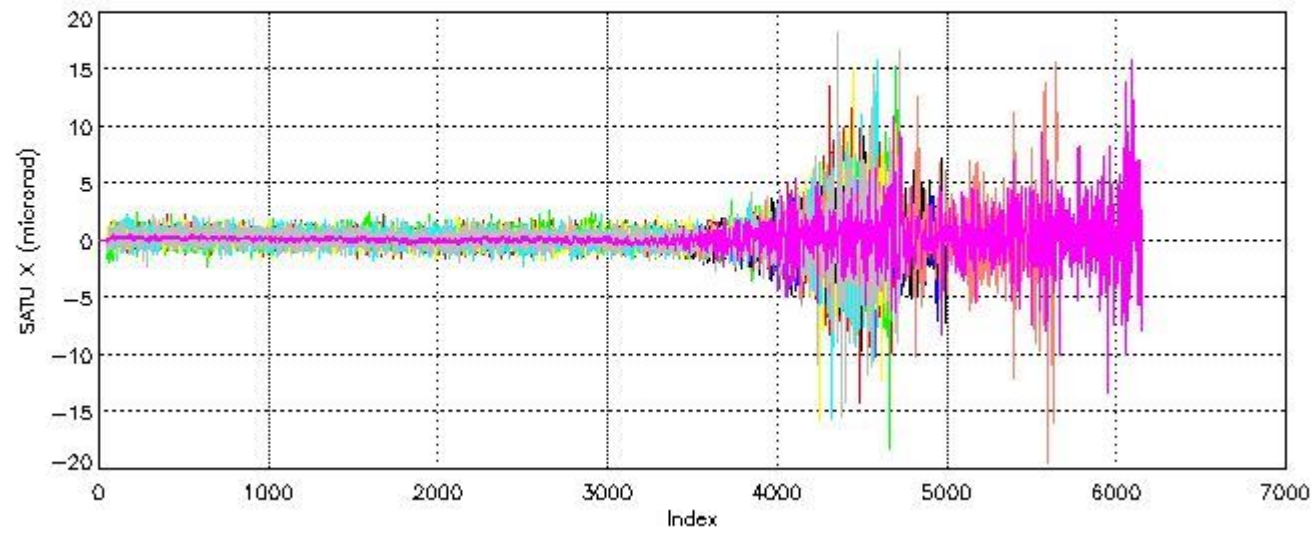


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22210	-0.33497	0.15826	-0.34821
St. deviation:	0.35709	2.1225	0.85692	2.0192
Maximum:	2.4000	15.800	6.0000	9.1000
Minimum:	-2.2000	-29.600	-5.3000	-14.200

Number of data:	10550.	10550.	34250.	34250.
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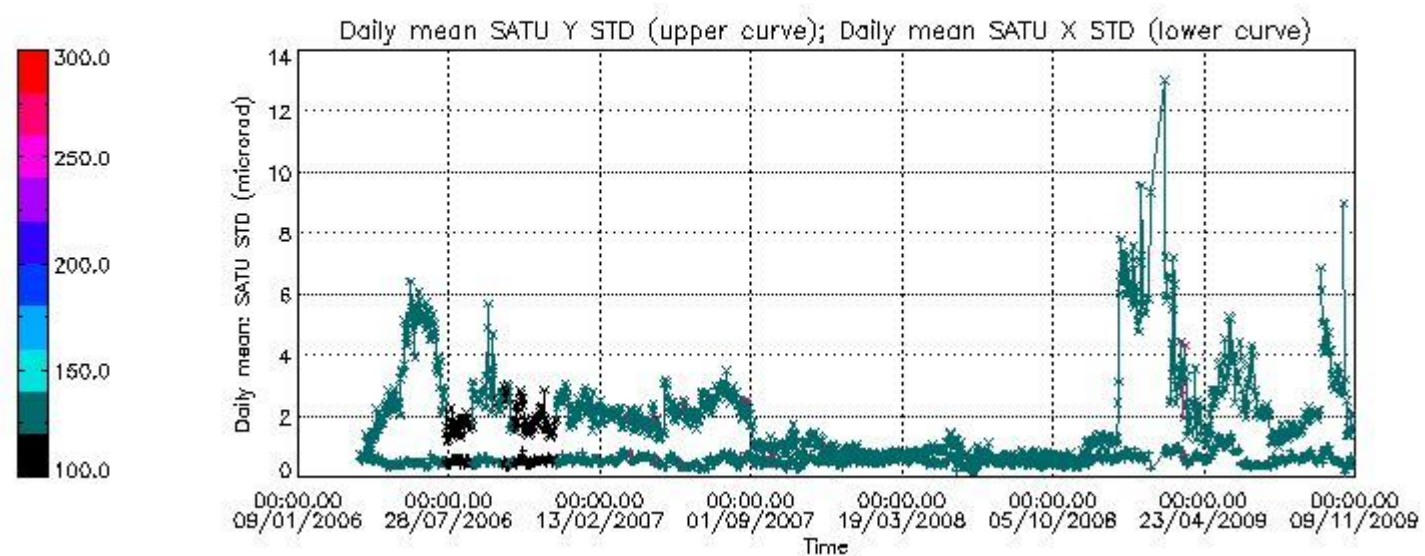
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

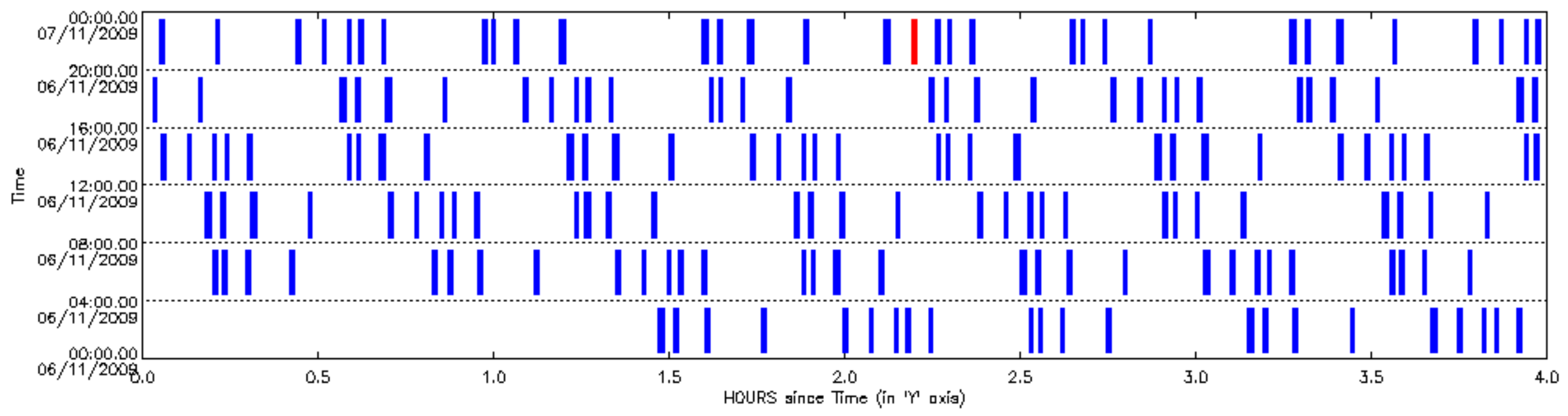
Lower curve: STD of SATU X axis

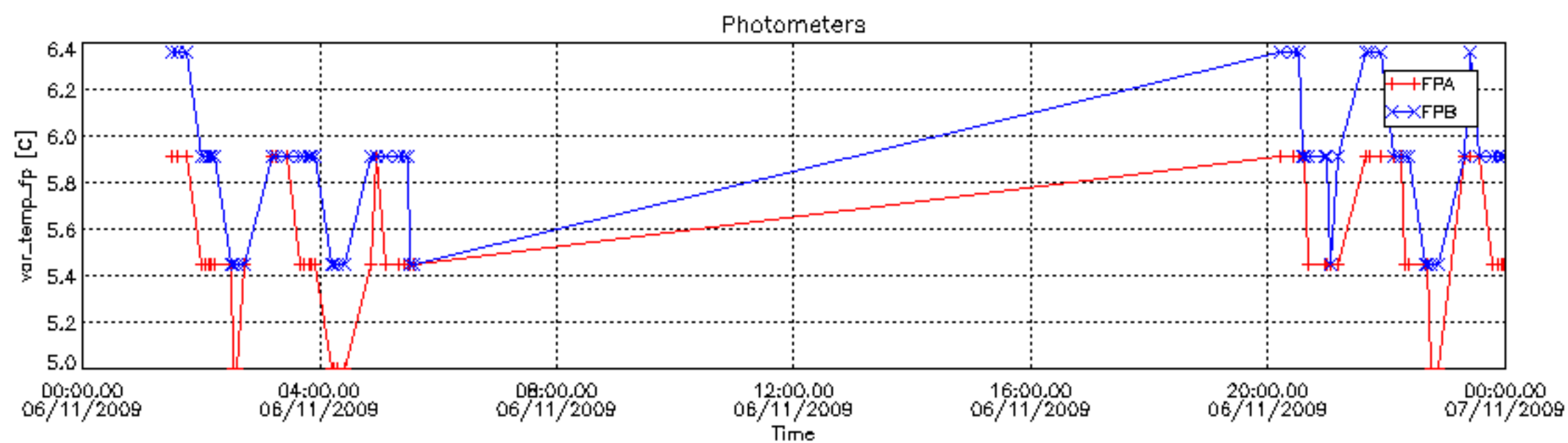
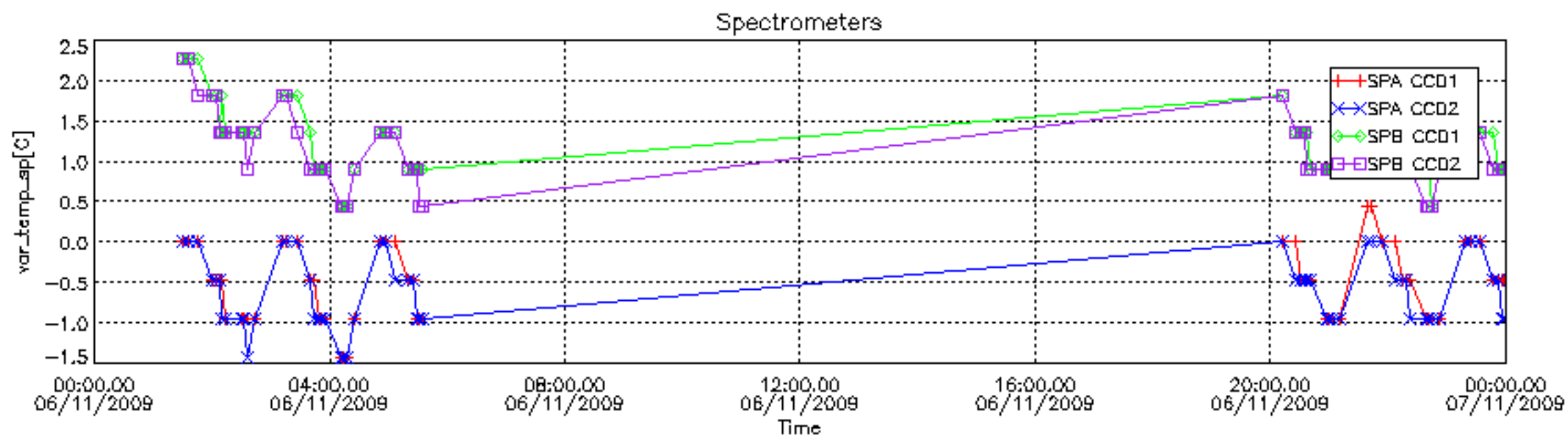


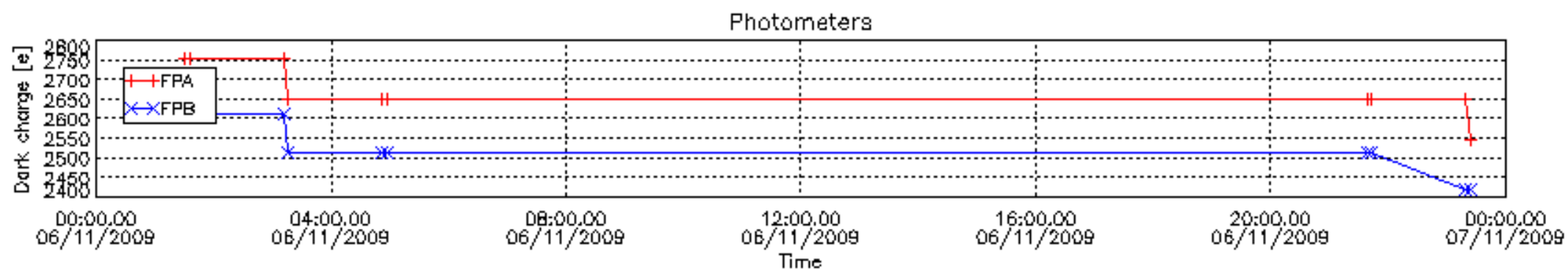
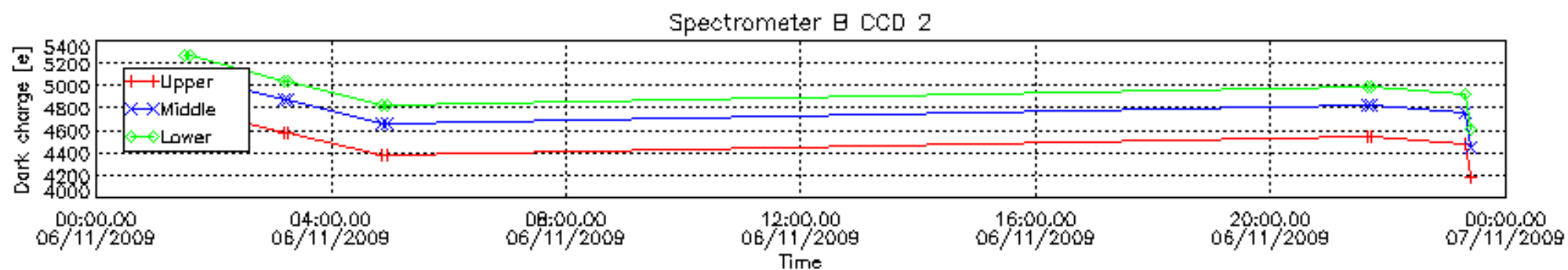
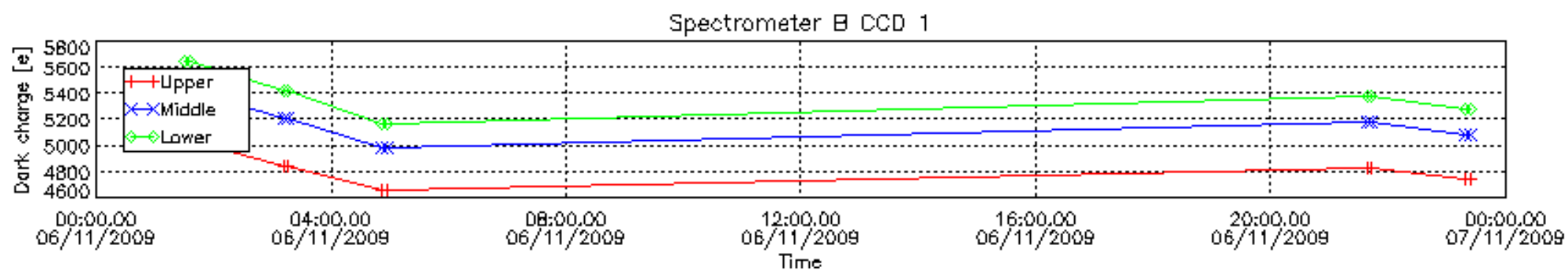
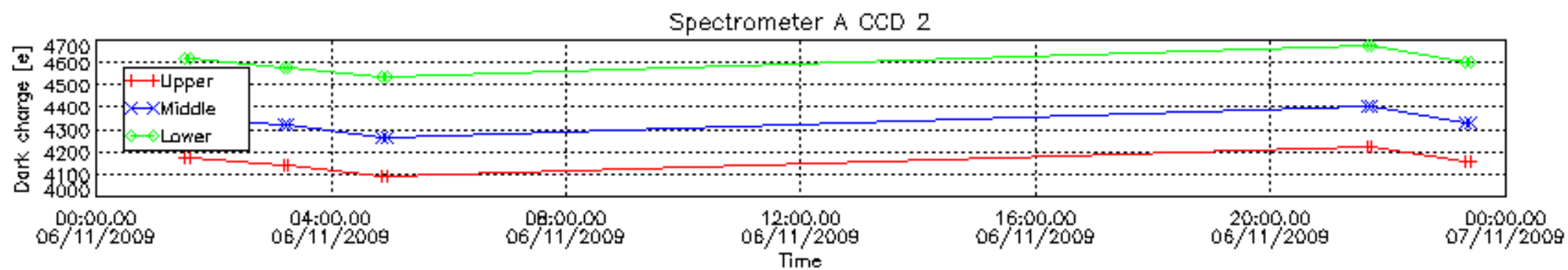
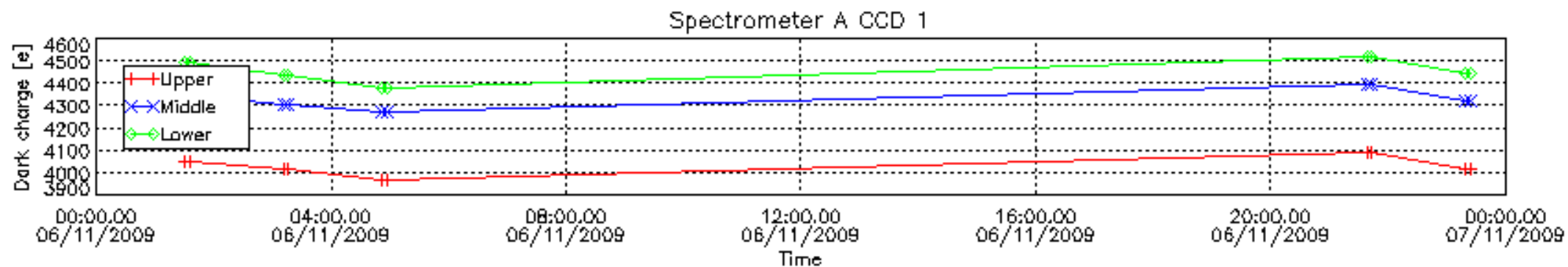
8. Auxiliary Data Files used for the production reported in section 2.4

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.

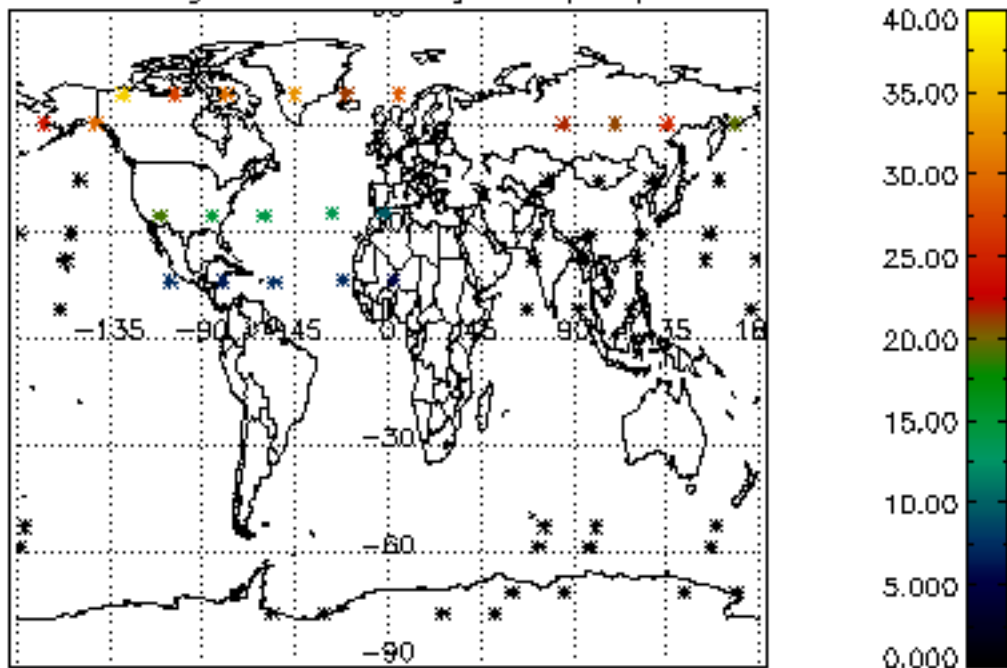
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	1	06-NOV-2009 01:30:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	33	06-NOV-2009 20:12:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-NOV-2009 01:30:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-NOV-2009 01:30:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-NOV-2009 01:30:47
ECMWF_FILE	AUX_ECF_AXNECM20091105_064112_20091105_210000_20091106_090000	1	06-NOV-2009 01:30:47
ECMWF_FILE	AUX_ECF_AXNECM20091105_182112_20091106_030000_20091106_150000	21	06-NOV-2009 04:12:02
ECMWF_FILE	AUX_ECF_AXNECM20091106_064111_20091106_150000_20091107_030000	33	06-NOV-2009 20:12:25
ECMWF_FILE	AUX_ECF_AXNECM20091106_064112_20091106_210000_20091107_090000	43	06-NOV-2009 21:38:10
OPTIONAL_ECMWF_FILE	MISSING	1	06-NOV-2009 01:30:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_010745_000044632084_00045_40179_9111.N1	1	06-NOV-2009 01:30:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_022727_000054192084_00046_40180_9112.N1	9	06-NOV-2009 02:31:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_040305_000057382084_00047_40181_9113.N1	21	06-NOV-2009 04:12:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_200446_000041442084_00057_40191_9114.N1	33	06-NOV-2009 20:12:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_211351_000060572084_00057_40191_9115.N1	43	06-NOV-2009 21:38:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_230006_000057382084_00058_40192_9116.N1	54	06-NOV-2009 23:18:47



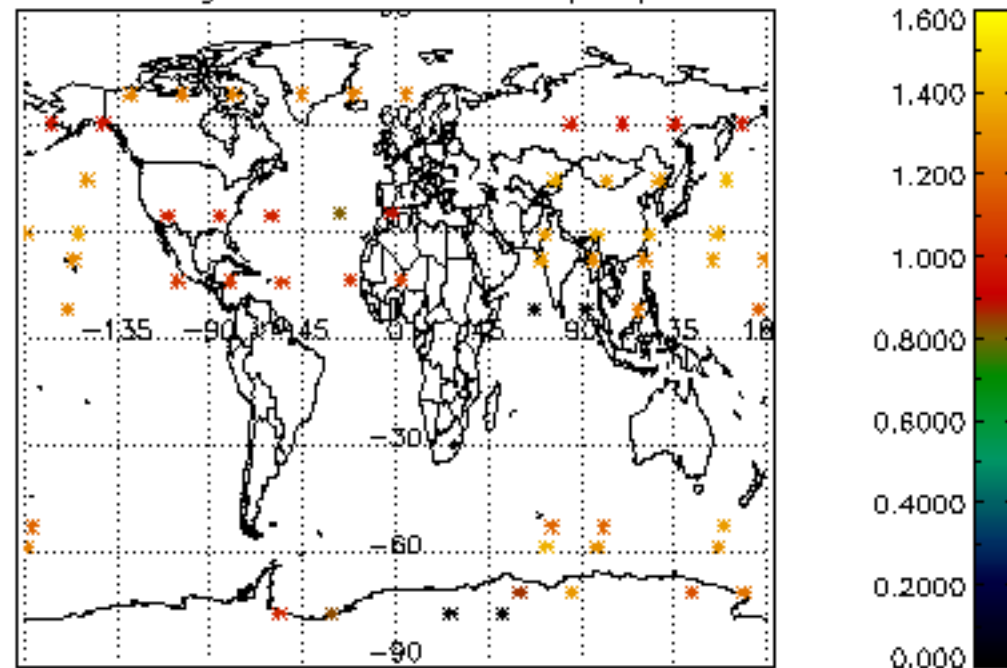




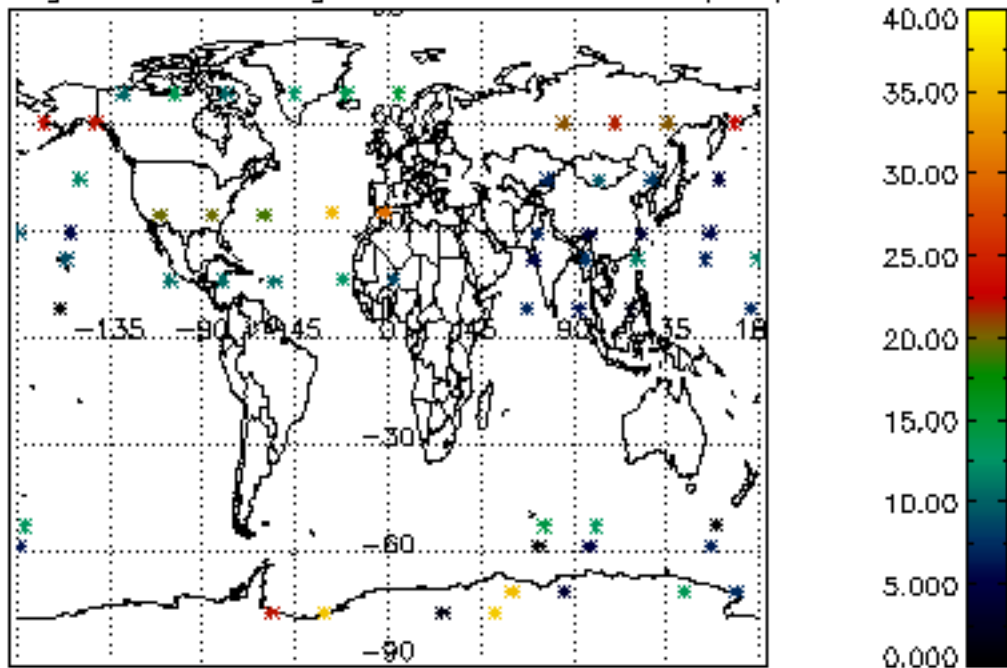
Percentage of cosmic ray hits per profile



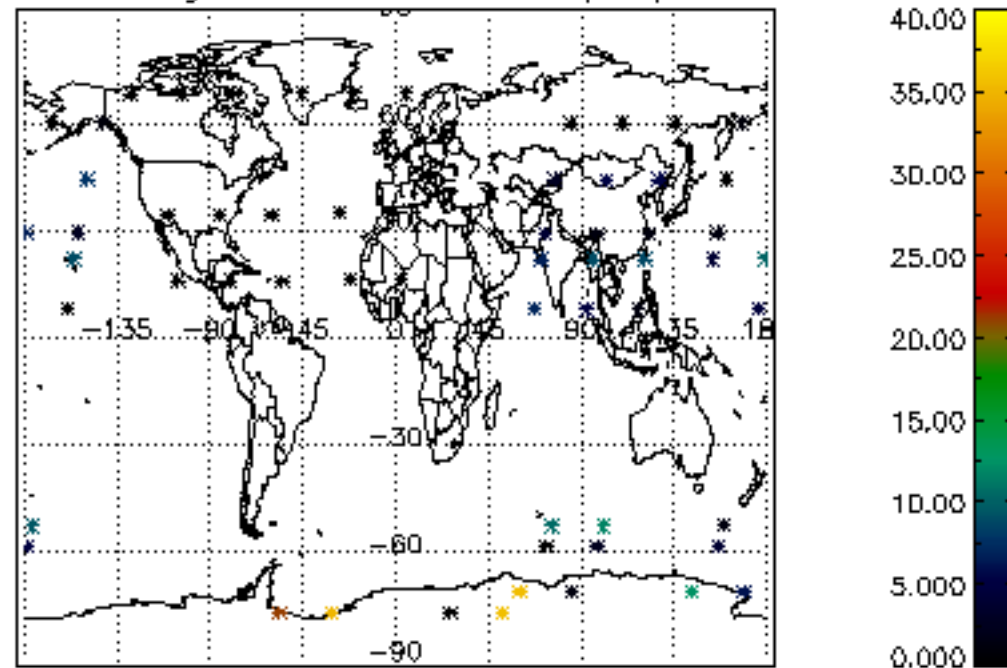
Percentage of datation errors per profile



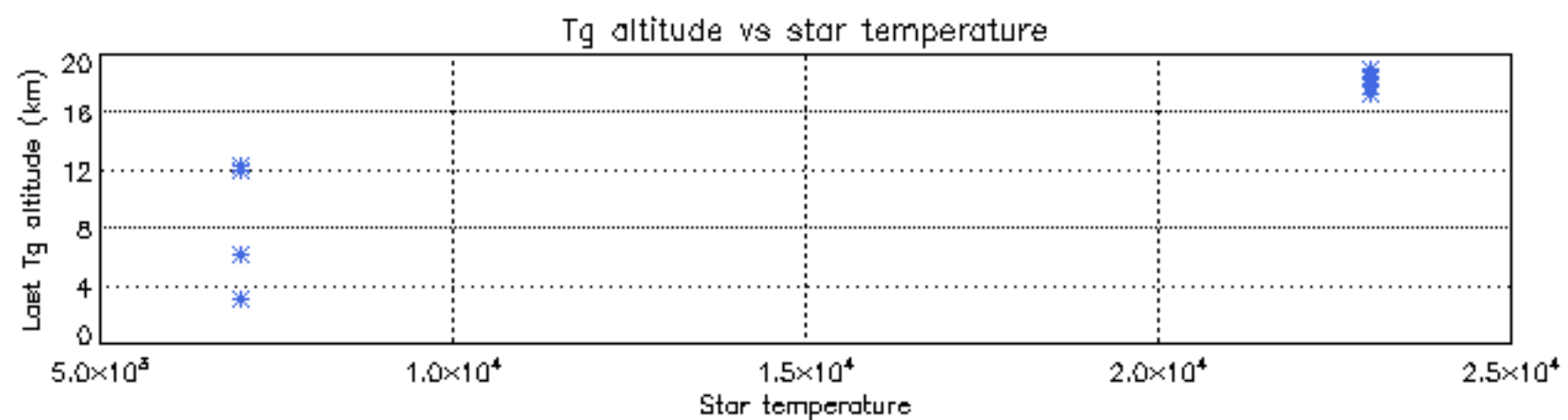
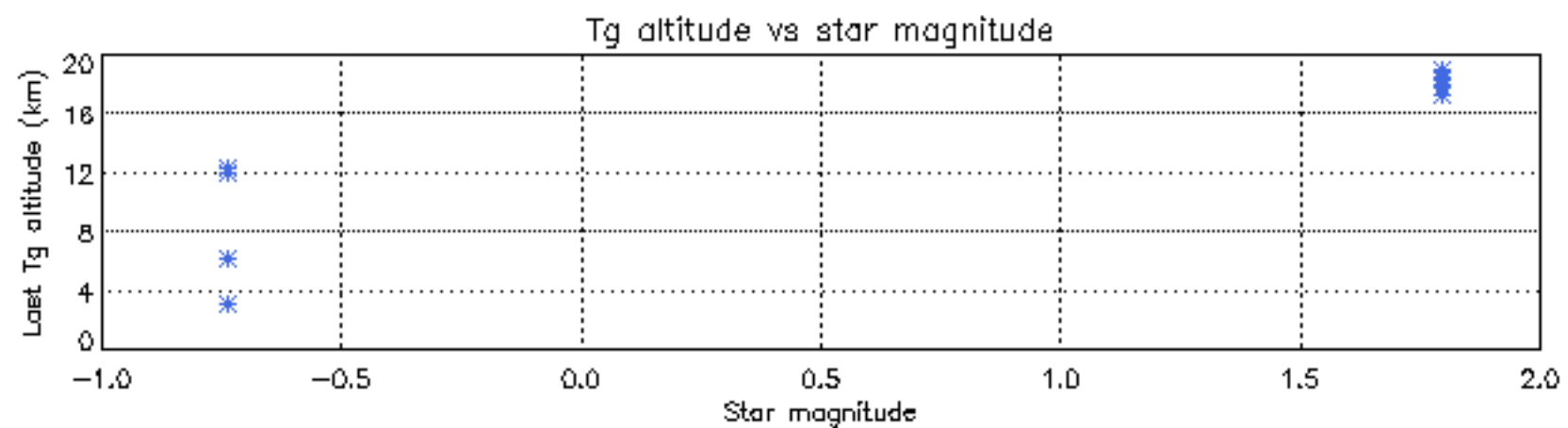
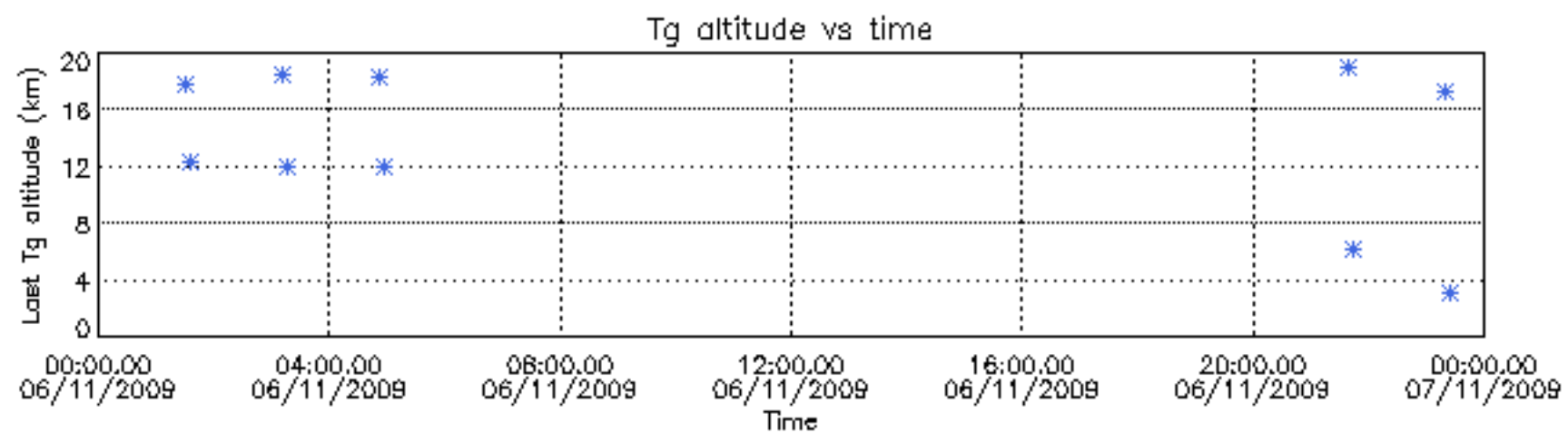
Percentage of star falling outside central band per profile



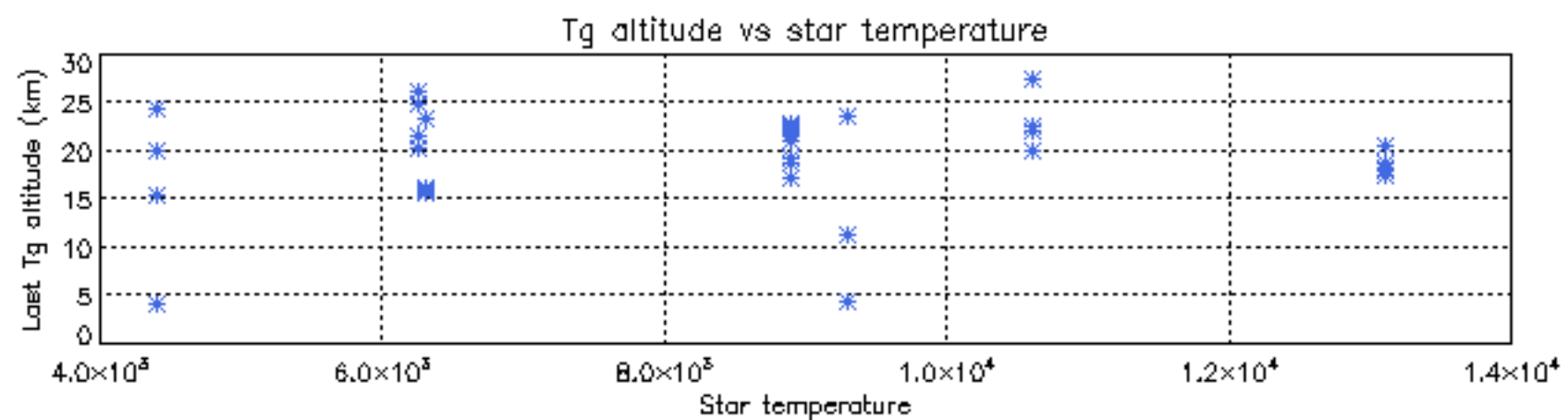
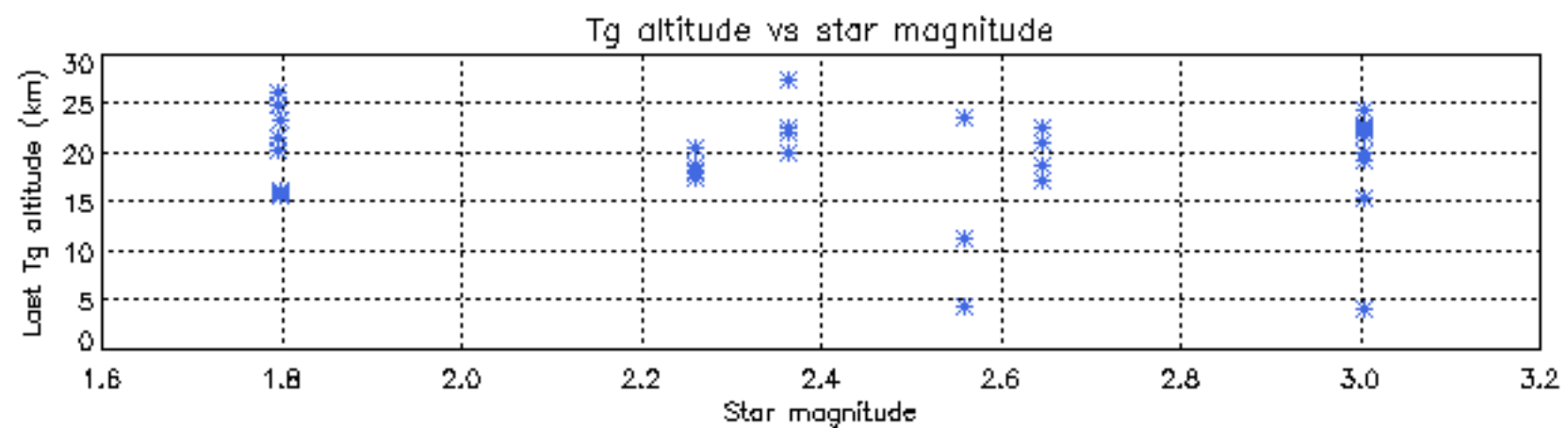
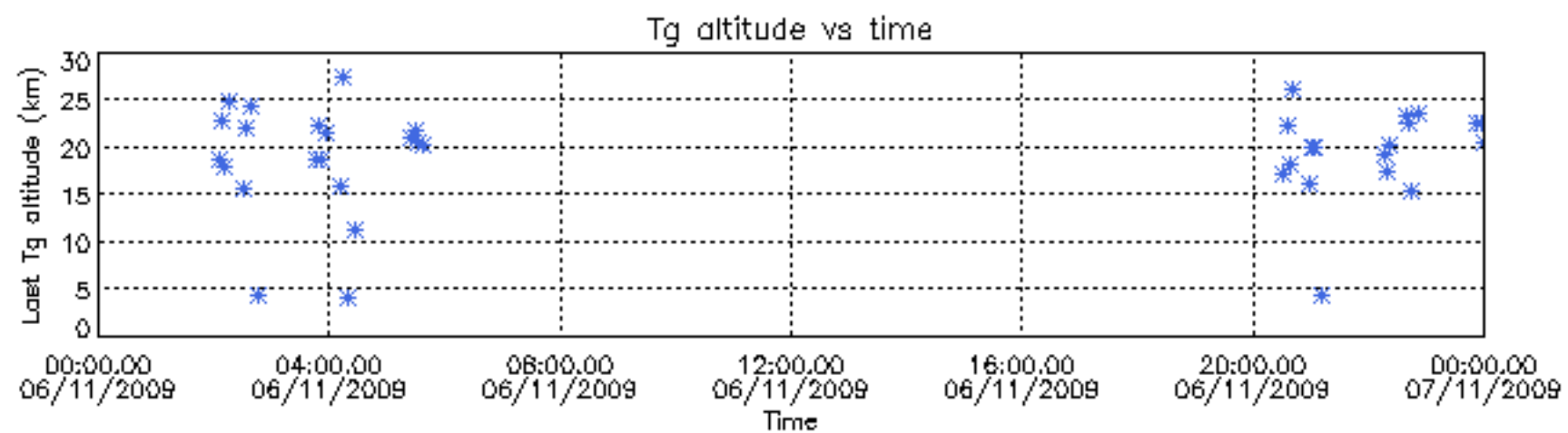
Percentage of saturation errors per profile

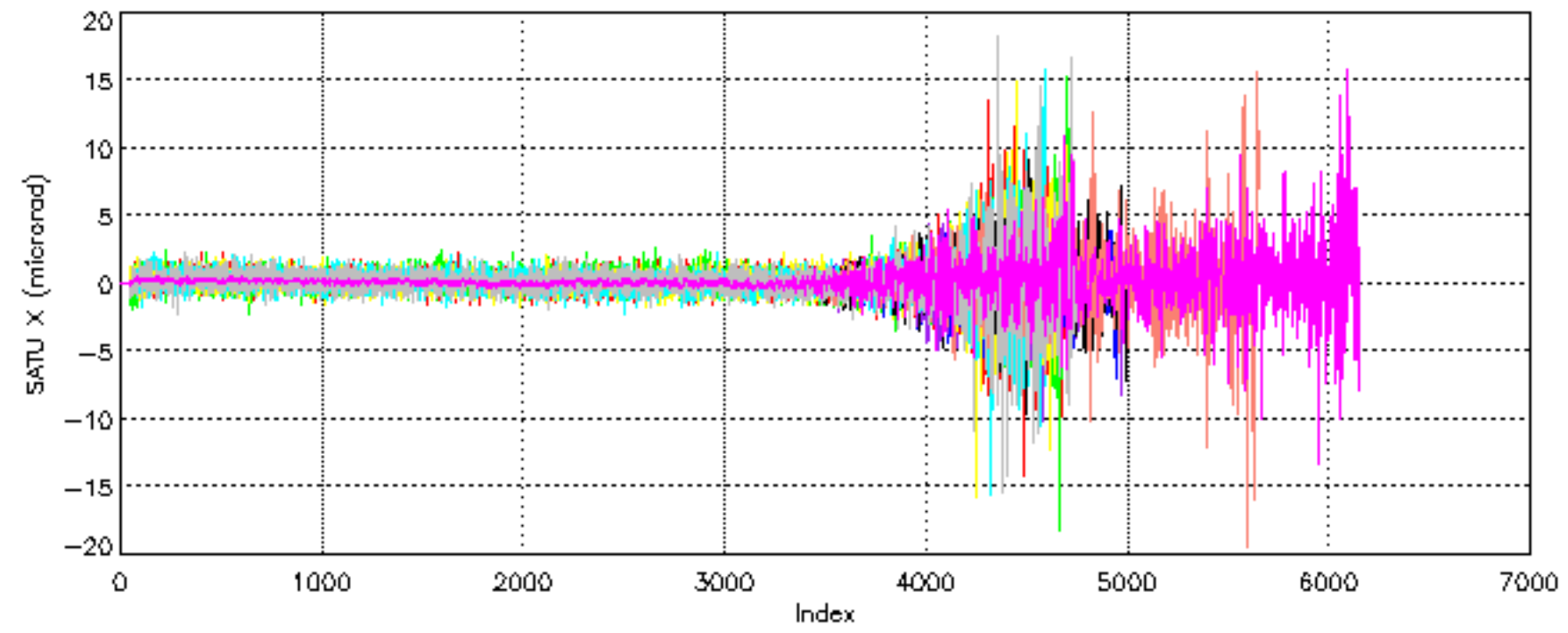


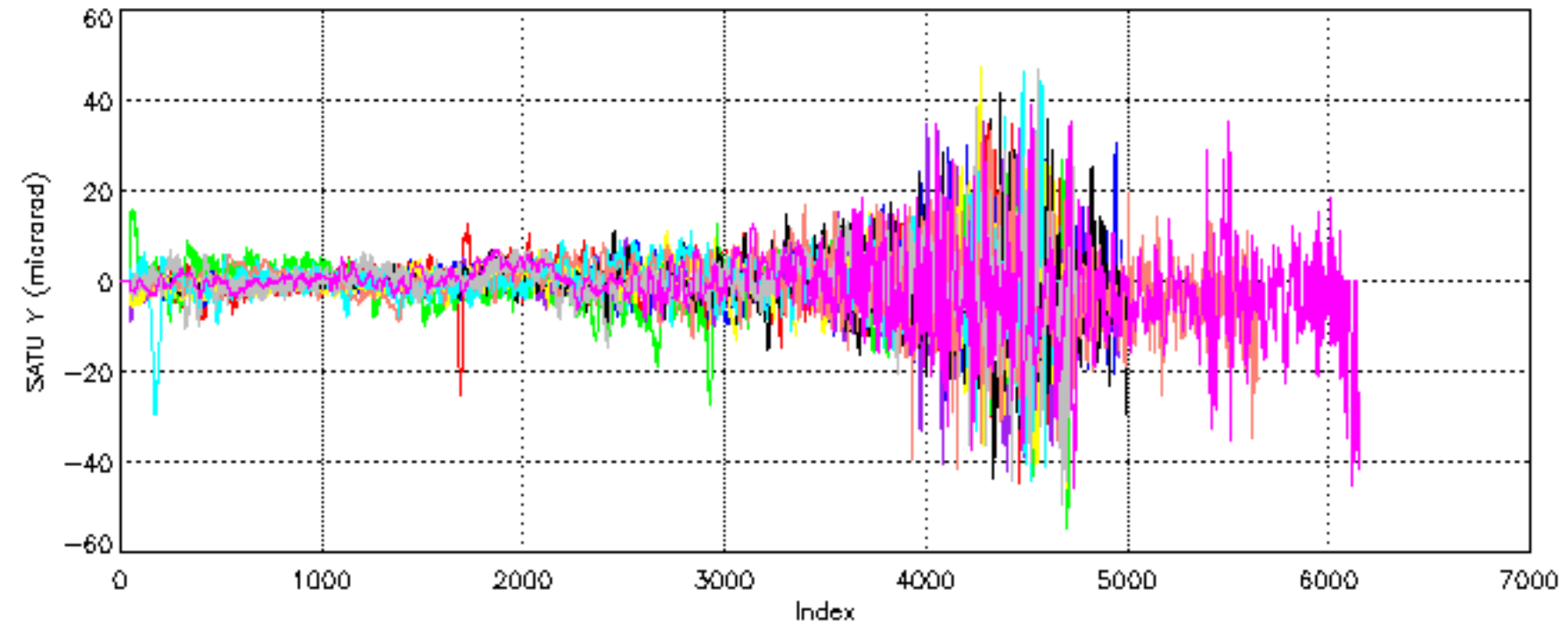
Tangent altitude at which the star is lost

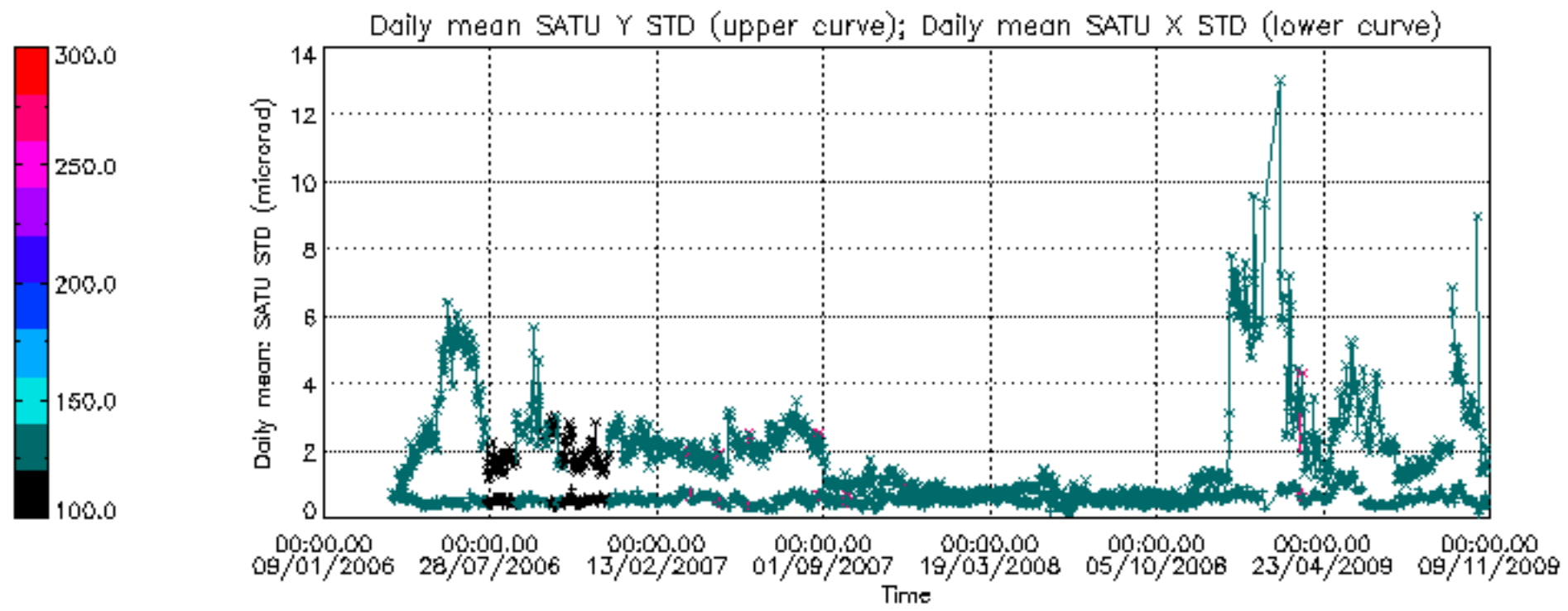


Tangent altitude at which the star is lost









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 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108
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 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

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 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109
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 3; -1806.5; 01-NOV-2009 03:34:20; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;40109
 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40109
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 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110
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 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110
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 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110
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 4; -1325.3; 01-NOV-2009 05:22:57; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;40110
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 11; 912.1; 01-NOV-2009 06:00:15; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40111
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 13; 2273.0; 01-NOV-2009 06:22:56; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40111
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7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
8; 4007.6; 01-NOV-2009 21:57:14; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;40120
9; 4229.7; 01-NOV-2009 22:00:56; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;40120
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13; 4229.7; 01-NOV-2009 23:41:32; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;40121
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12; 4981.7; 05-NOV-2009 10:03:24; Dark ; 66.5; 22; 32Alp Leo ; 1.36; 15200;occ; 133; 0;40170
13; 6072.8; 05-NOV-2009 10:21:35; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;40170
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 4; 2522.4; 05-NOV-2009 11:03:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40171
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 6; 2816.5; 05-NOV-2009 11:07:54; Bright; 48.5; 149; 45Eps Per ; 2.89; 30000;occ; 97; 0;40171
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 11; 4983.1; 05-NOV-2009 13:24:37; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40172
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 13; 6216.4; 05-NOV-2009 13:45:10; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40172
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 4; 2522.2; 05-NOV-2009 14:24:12; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40173
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 13; 6217.4; 05-NOV-2009 15:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;40173
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 5; 2645.1; 05-NOV-2009 16:06:51; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40174
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 3; 1993.7; 05-NOV-2009 17:36:36; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;40175


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16; 6004.3; 19-NOV-2009 09:40:11; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40370
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6; 2797.8; 19-NOV-2009 10:27:21; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;40371
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4; 2527.7; 19-NOV-2009 12:03:26; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40372
5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372
6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372
7; 3869.2; 19-NOV-2009 12:25:48; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40372
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12; 4832.4; 19-NOV-2009 12:41:51; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40372
13; 5042.1; 19-NOV-2009 12:45:21; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40372
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 5; 2628.8; 19-NOV-2009 13:45:43; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40373
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 13; 5042.9; 19-NOV-2009 14:25:58; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40373
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 16; 6006.4; 19-NOV-2009 14:42:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40373
 17; 6303.9; 19-NOV-2009 14:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40373
 18; 6418.3; 19-NOV-2009 14:48:53; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40373
 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373
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 4; 2526.7; 19-NOV-2009 15:24:37; Bright; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;40374
 5; 2628.3; 19-NOV-2009 15:26:19; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40374
 6; 2785.7; 19-NOV-2009 15:28:56; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40374
 7; 3868.8; 19-NOV-2009 15:46:59; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;40374
 8; 3967.7; 19-NOV-2009 15:48:38; Bright; 41.0; 82; 48Bet UMA ; 2.37; 10600;occ; 82; 0;40374
 9; 4051.8; 19-NOV-2009 15:50:02; Bright; 38.5; 87; 64Gam UMA ; 2.43; 11000;occ; 77; 0;40374
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 11; 4335.2; 19-NOV-2009 15:54:46; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40374
 12; 4833.3; 19-NOV-2009 16:03:04; Bright; 43.0; 62; 94Bet Leo ; 2.14; 9700;occ; 86; 0;40374
 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374
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 15; 5446.2; 19-NOV-2009 16:13:17; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40374
 16; 6007.0; 19-NOV-2009 16:22:38; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;40374
 17; 6304.8; 19-NOV-2009 16:27:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40374
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 21; 7149.8; 19-NOV-2009 16:41:40; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;40374

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 5; 2628.1; 19-NOV-2009 17:06:55; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40375
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 15; 4899.7; 28-NOV-2009 14:40:48; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;40502
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25; 6743.5; 30-NOV-2009 19:10:05; Dark ; 54.0; 70; Zet Pup ; 2.25; 39000;occ; 108; 0;40533
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 2; 916.3; 30-NOV-2009 19:13:34; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;40534
 3; 1144.8; 30-NOV-2009 19:17:22; Dark ; 69.5; 23; 21Eps CMa ; 1.50; 26000;occ; 139; 0;40534
 4; 1535.2; 30-NOV-2009 19:23:53; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;40534
 5; 1752.4; 30-NOV-2009 19:27:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;40534
 6; 1934.6; 30-NOV-2009 19:30:32; Dark ; 57.0; 30; 46Eps Ori ; 1.69; 30000;occ; 114; 0;40534
 7; 2098.2; 30-NOV-2009 19:33:16; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;40534
 8; 2233.3; 30-NOV-2009 19:35:31; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40534
 9; 2329.0; 30-NOV-2009 19:37:07; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40534
10; 2471.4; 30-NOV-2009 19:39:29; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40534
11; 2617.3; 30-NOV-2009 19:41:55; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40534
12; 2850.1; 30-NOV-2009 19:45:48; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40534
13; 2960.6; 30-NOV-2009 19:47:38; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40534
14; 3822.4; 30-NOV-2009 20:02:00; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40534
15; 3918.6; 30-NOV-2009 20:03:36; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40534
16; 4014.9; 30-NOV-2009 20:05:12; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;40534
17; 4188.5; 30-NOV-2009 20:08:06; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40534
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26; 6744.5; 30-NOV-2009 20:50:42; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40534
27; 6953.1; 30-NOV-2009 20:54:11; Dark ; 61.0; 117; Pi Pup ; 2.71; 3800;occ; 122; 0;40534

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