

GOMOS Daily Report 12-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	20NOV2009 05:33:22
Data source version	GOMOS/5.00L03
Start time of products	12NOV2009 00:03:03
Stop time of products	12NOV2009 23:24:10
Store outputs in DB	Yes
Nb of level 1b prods	81
Nb of prods with errors	0

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

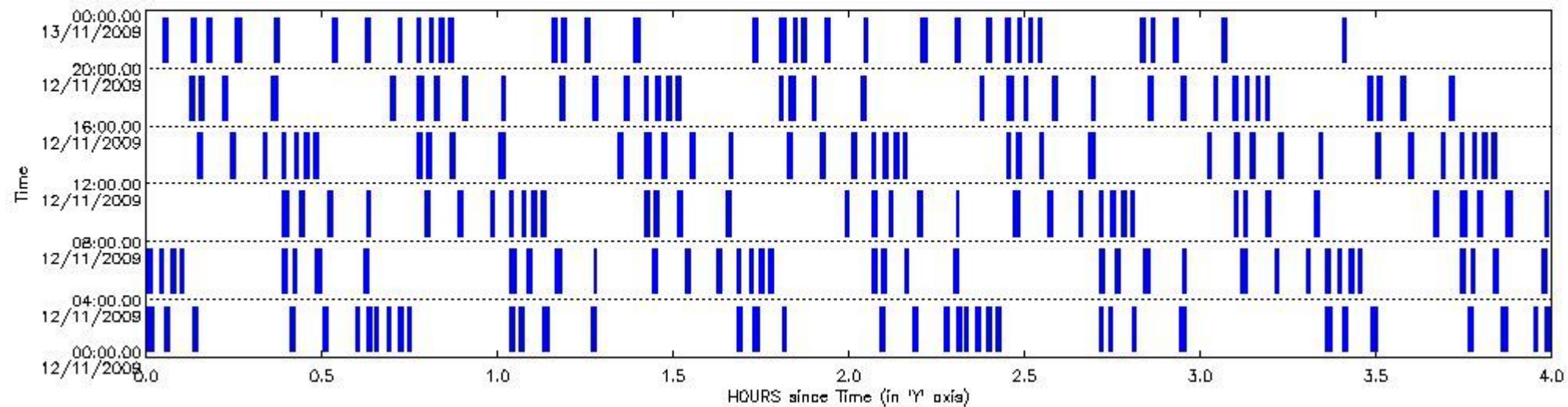
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

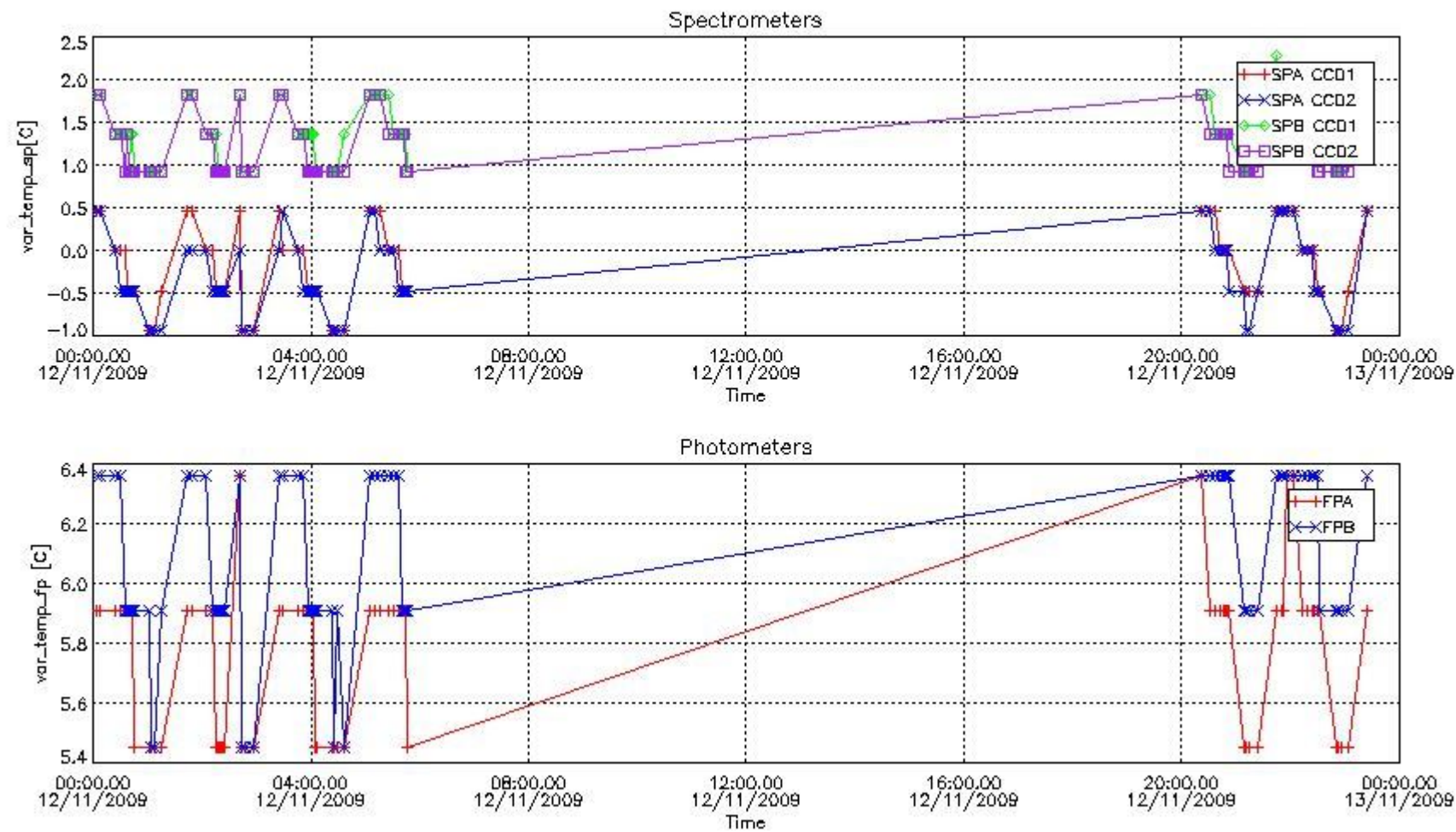
No missing products.

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_1PNPDE20091112_000303_000000462084_00131_40265_3287.N1	12-NOV-2009 00:03:03	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40265	No
2	GOM_TRA_1PNPDE20091112_000756_000000492084_00131_40265_3288.N1	12-NOV-2009 00:07:56	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40265	No
3	GOM_TRA_1PNPDE20091112_002432_000000552084_00131_40265_3289.N1	12-NOV-2009 00:24:32	Straylight	54.500	165	34Gam Eri	2.9500	3200.0	109	40265	No
4	GOM_TRA_1PNPDE20091112_003015_000000482084_00131_40265_3290.N1	12-NOV-2009 00:30:15	Twilight_stray	47.500	94	92Alp Cet	2.5260	3100.0	95	40265	No
5	GOM_TRA_1PNPDE20091112_003543_000000412084_00131_40265_3291.N1	12-NOV-2009 00:35:43	Bright	40.500	50	13Alp Ari	2.0070	4250.0	81	40265	No
6	GOM_TRA_1PNPDE20091112_003742_000000432084_00131_40265_3292.N1	12-NOV-2009 00:37:42	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40265	No
7	GOM_TRA_1PNPDE20091112_003903_000000372084_00131_40265_3293.N1	12-NOV-2009 00:39:03	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40265	No
8	GOM_TRA_1PNPDE20091112_004106_000000392084_00131_40265_3294.N1	12-NOV-2009 00:41:06	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40265	No
9	GOM_TRA_1PNPDE20091112_004257_000000452084_00131_40265_3295.N1	12-NOV-2009 00:42:57	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40265	No
10	GOM_TRA_1PNPDE20091112_004432_000000392084_00131_40265_3296.N1	12-NOV-2009 00:44:32	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40265	No
11	GOM_TRA_1PNPDE20091112_010207_000000392084_00131_40265_3297.N1	12-NOV-2009 01:02:07	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40265	No
12	GOM_TRA_1PNPDE20091112_010345_000000392084_00131_40265_3298.N1	12-NOV-2009 01:03:45	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	40265	No

72	GOM_TRA_1PNPDE20091112_222330_000000402084_00144_40278_3372.N1	12-NOV-2009 22:23:30	Bright	39.500	50	13Alp Ari	2.0070	4250.0	79	40278	No
73	GOM_TRA_1PNPDE20091112_222649_000000372084_00144_40278_3373.N1	12-NOV-2009 22:26:49	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40278	No
74	GOM_TRA_1PNPDE20091112_222853_000000362084_00144_40278_3374.N1	12-NOV-2009 22:28:53	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40278	No
75	GOM_TRA_1PNPDE20091112_223035_000000442084_00144_40278_3375.N1	12-NOV-2009 22:30:35	Bright	43.500	149	45Eps Per	2.8880	30000.	87	40278	No
76	GOM_TRA_1PNPDE20091112_223214_000000412084_00144_40278_3376.N1	12-NOV-2009 22:32:14	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40278	No
77	GOM_TRA_1PNPDE20091112_224952_000000392084_00144_40278_3377.N1	12-NOV-2009 22:49:52	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	40278	No
78	GOM_TRA_1PNPDE20091112_225130_000000442084_00144_40278_3378.N1	12-NOV-2009 22:51:30	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40278	No
79	GOM_TRA_1PNPDE20091112_225528_000000392084_00144_40278_3379.N1	12-NOV-2009 22:55:28	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40278	No
80	GOM_TRA_1PNPDE20091112_230347_000000462084_00144_40278_3380.N1	12-NOV-2009 23:03:47	Bright	46.000	96	68Del Leo	2.5600	9300.0	92	40278	No
81	GOM_TRA_1PNPDE20091112_232410_000000462084_00144_40278_3371.N1	12-NOV-2009 23:24:10	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	40278	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).

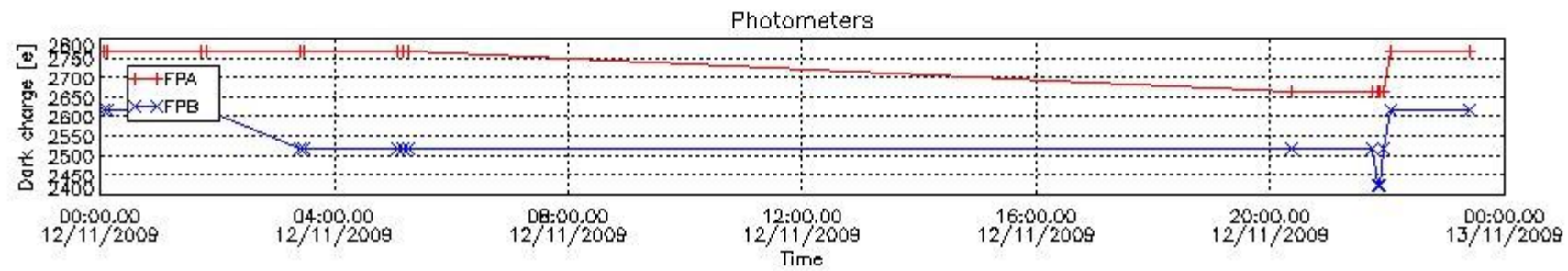
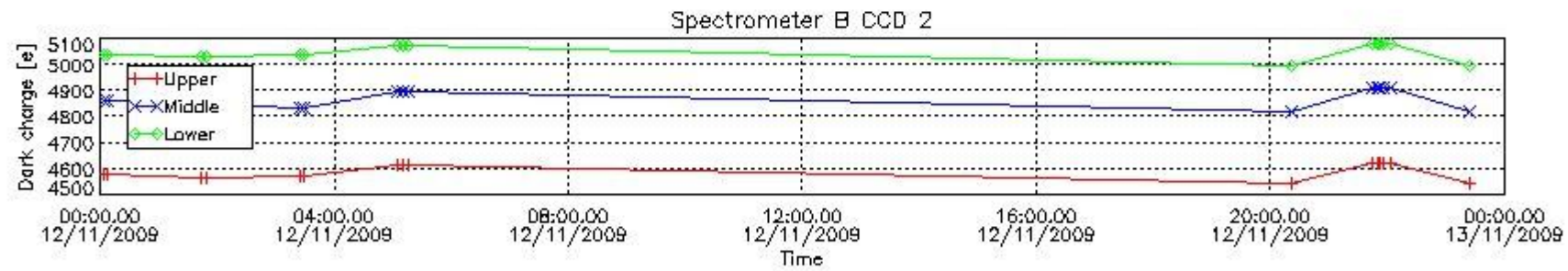
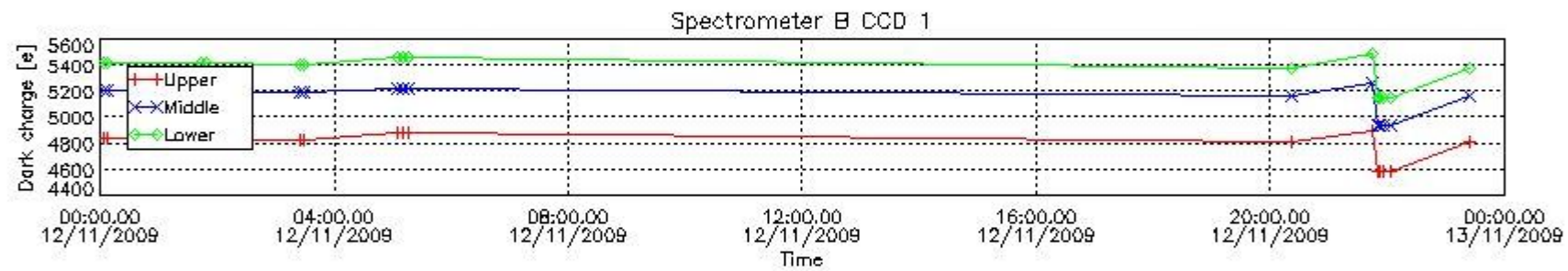
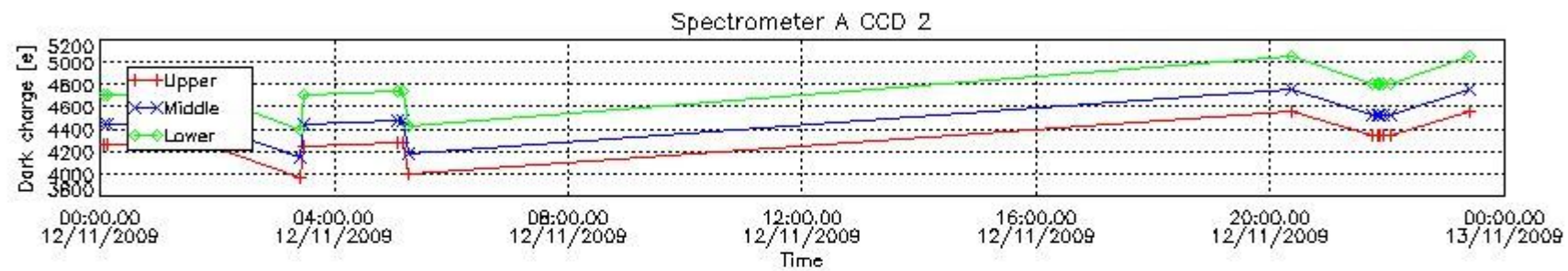
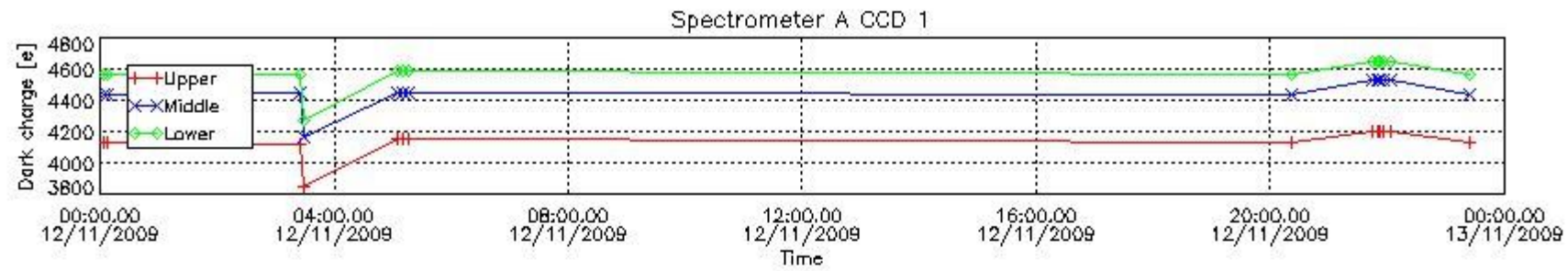
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
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GOM_TRA_1PNPDE20091112_202158_000000372084_00143_40277_3359.N1	DC map used
GOM_TRA_1PNPDE20091112_203144_000000532084_00143_40277_3360.N1	DC map used
GOM_TRA_1PNPDE20091112_203725_000000482084_00143_40277_3361.N1	DC map used
GOM_TRA_1PNPDE20091112_204254_000000412084_00143_40277_3362.N1	DC map used
GOM_TRA_1PNPDE20091112_204613_000000362084_00143_40277_3363.N1	DC map used
GOM_TRA_1PNPDE20091112_204817_000000372084_00143_40277_3364.N1	DC map used
GOM_TRA_1PNPDE20091112_205000_000000462084_00143_40277_3365.N1	DC map used
GOM_TRA_1PNPDE20091112_205138_000000422084_00143_40277_3366.N1	DC map used
GOM_TRA_1PNPDE20091112_210916_000000442084_00143_40277_3367.N1	DC map used
GOM_TRA_1PNPDE20091112_211054_000000412084_00143_40277_3368.N1	DC map used
GOM_TRA_1PNPDE20091112_211452_000000442084_00143_40277_3369.N1	DC map used
GOM_TRA_1PNPDE20091112_212311_000000662084_00143_40277_3370.N1	DC map used
GOM_TRA_1PNPDE20091112_232410_000000462084_00144_40278_3371.N1	DC map used

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



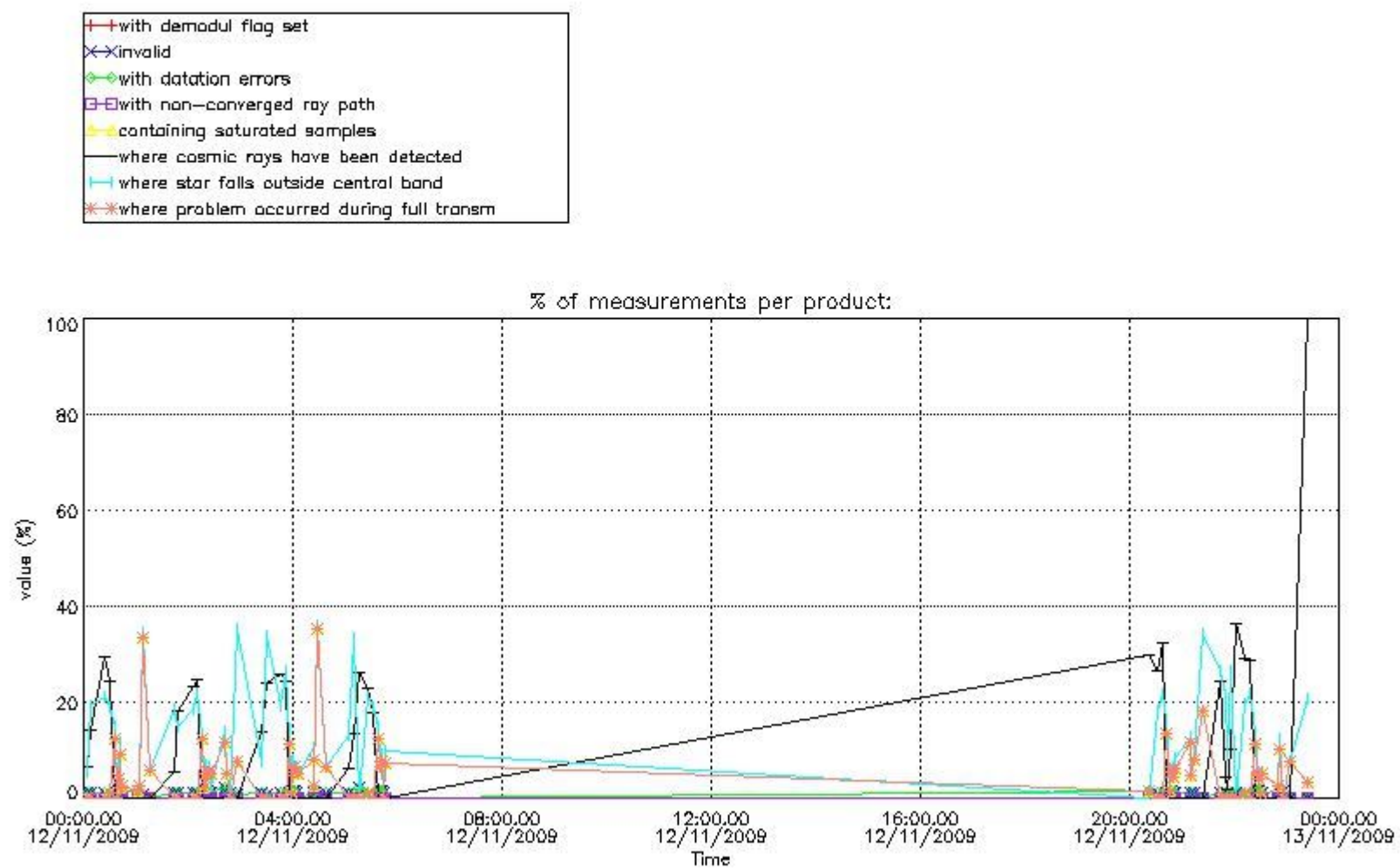
5. Demodulation flag and quality information monitoring

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.

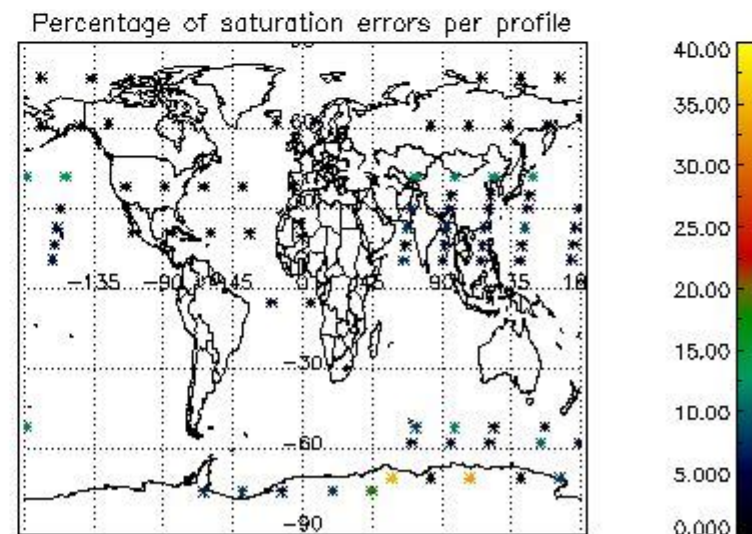
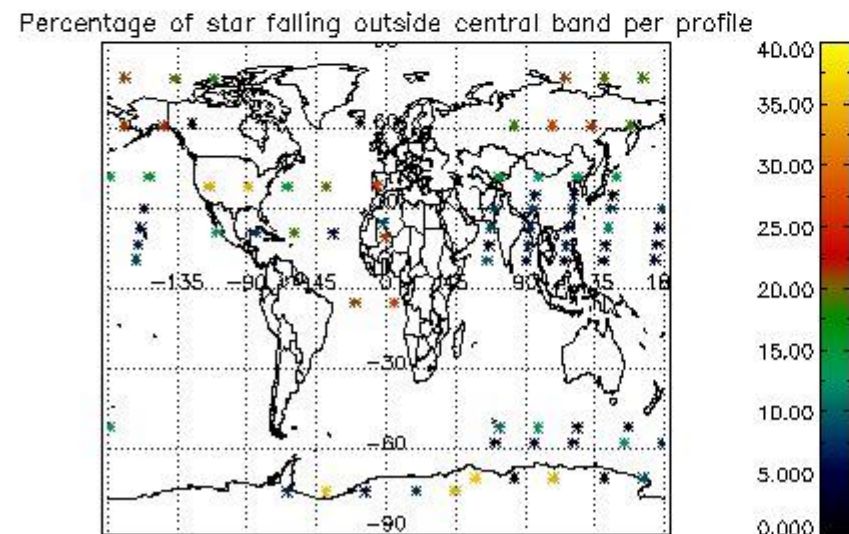
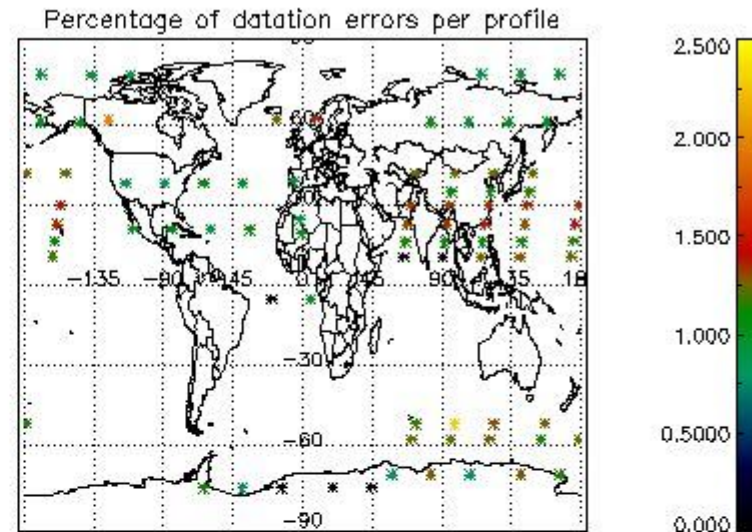
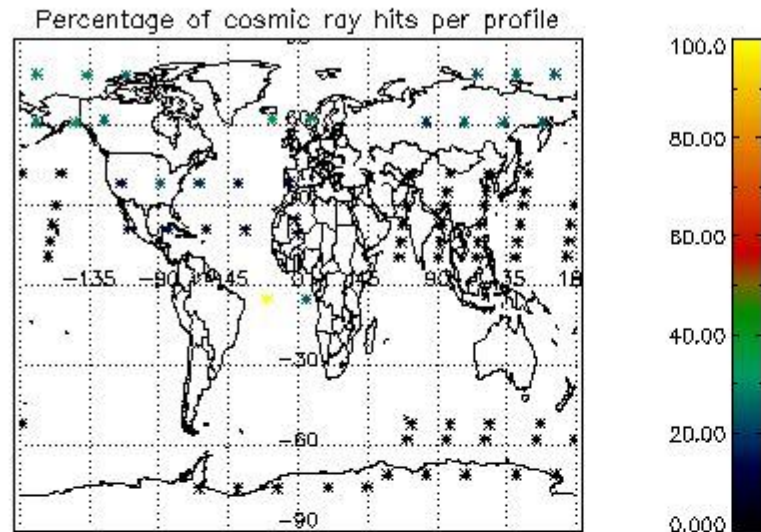
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.4568 %
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)



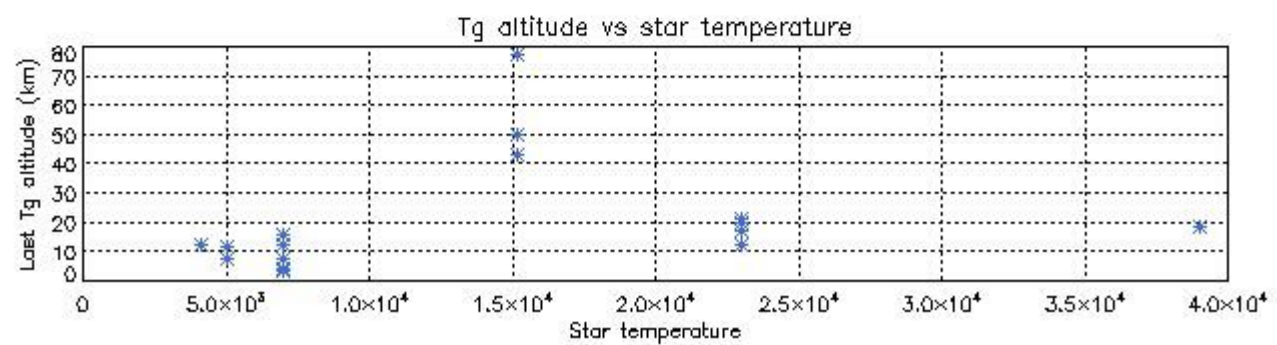
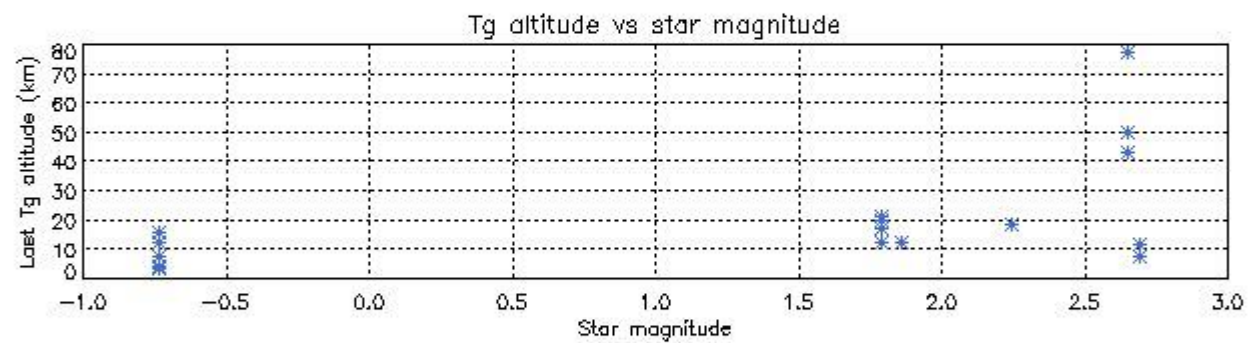
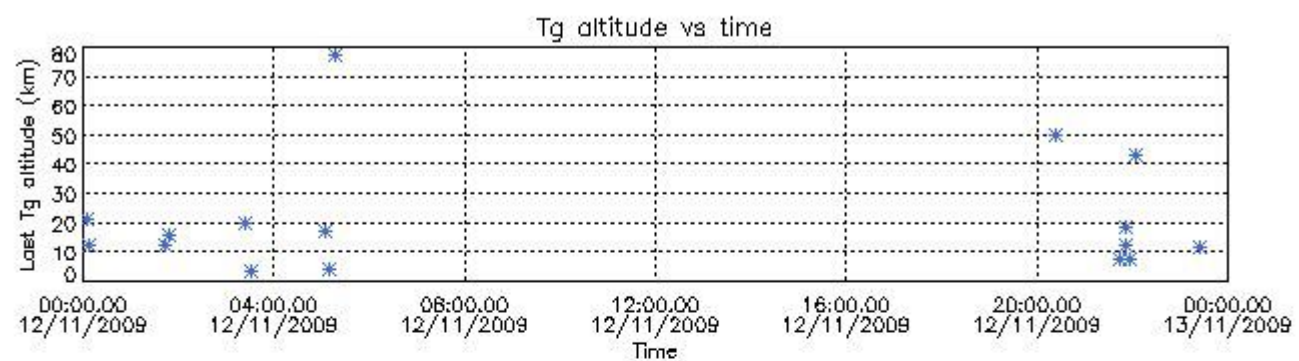
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.895	19.090	NaN
St. deviation:	19.654	5.3543	NaN
Maximum:	77.459	28.836	NaN
Minimum:	3.6446	4.2488	NaN
Number of data:	16.000	53.000	NaN

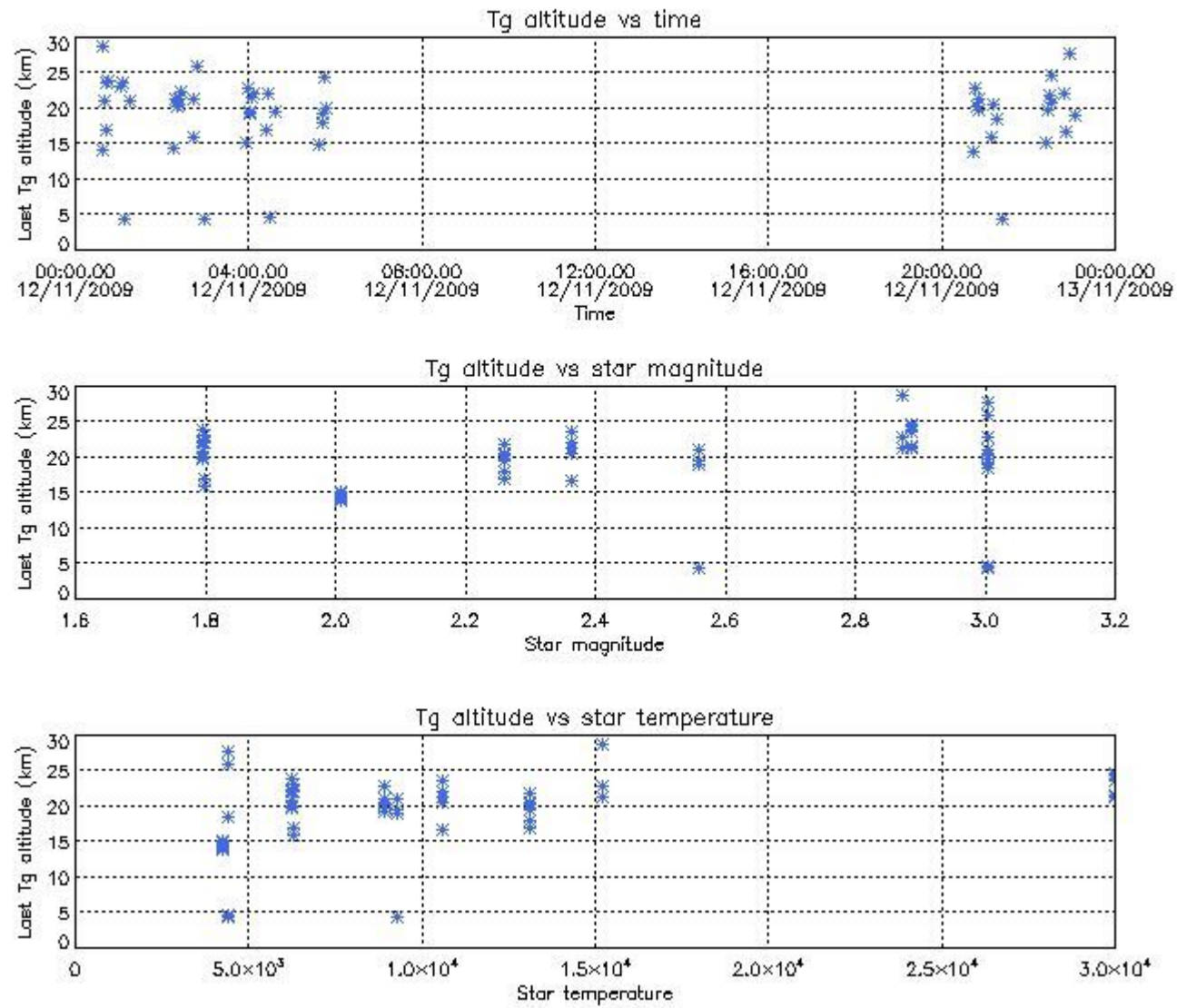
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

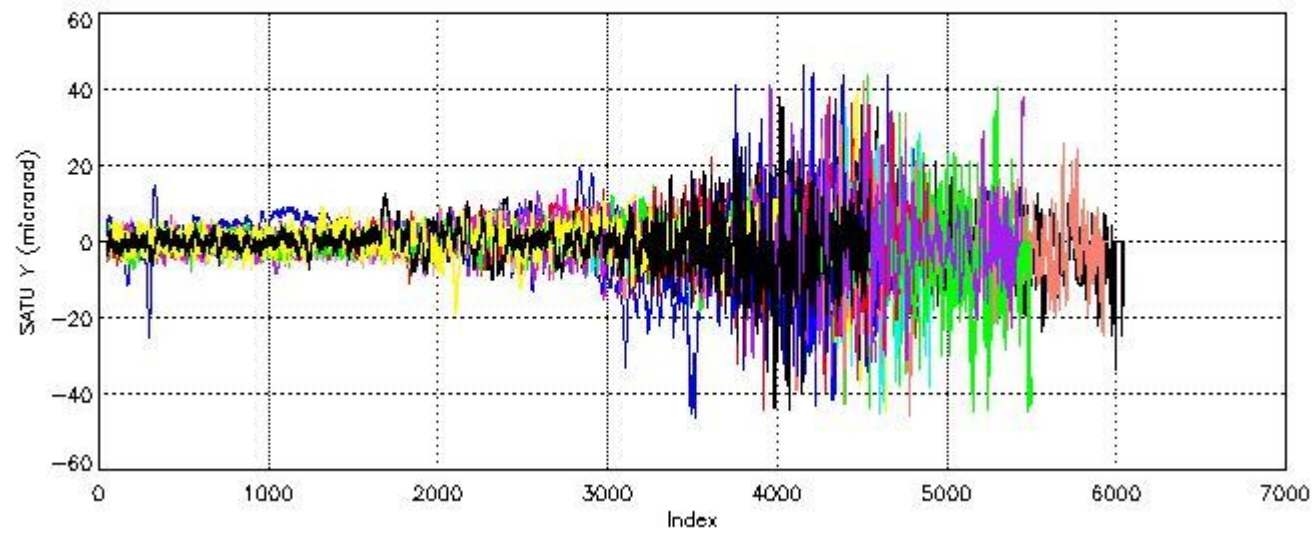
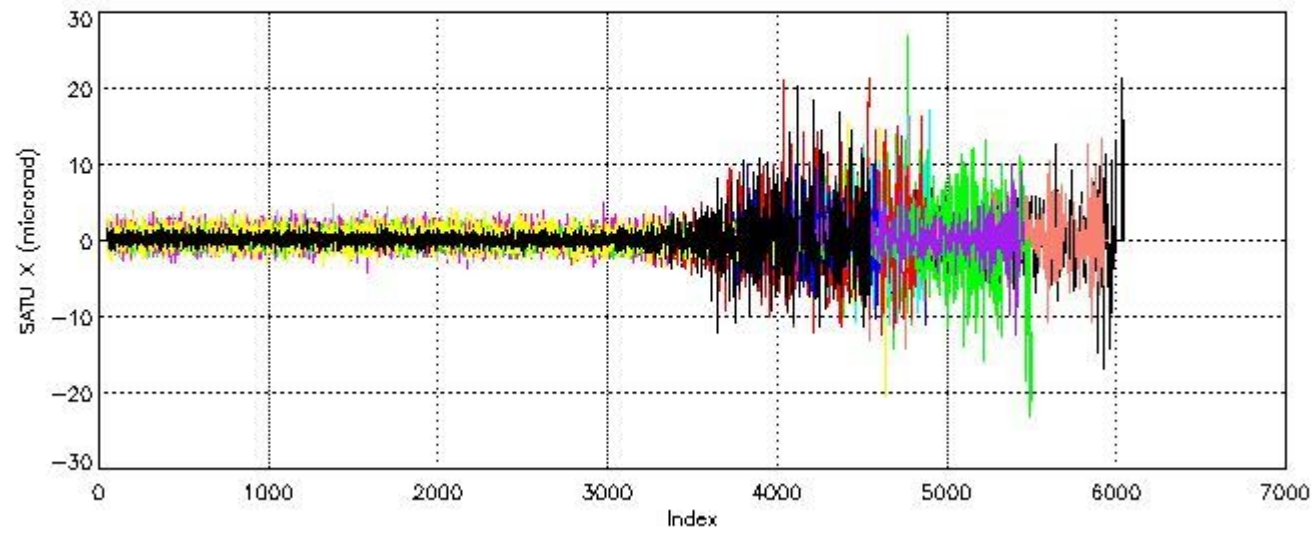


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27379	-0.19436	0.19340	-0.37042
St. deviation:	0.53414	1.8120	0.92502	2.0259
Maximum:	4.2000	14.500	6.9000	10.000
Minimum:	-3.1000	-25.100	-7.3000	-11.000

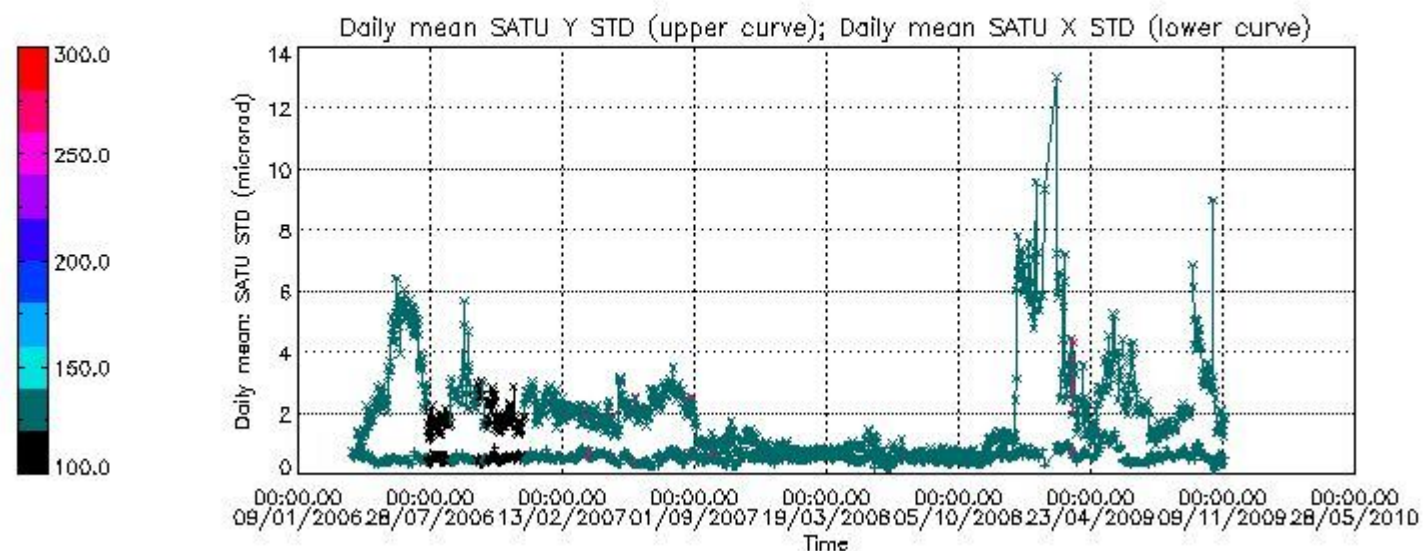
Number of data:	17200.	17200.	50150.	50150.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

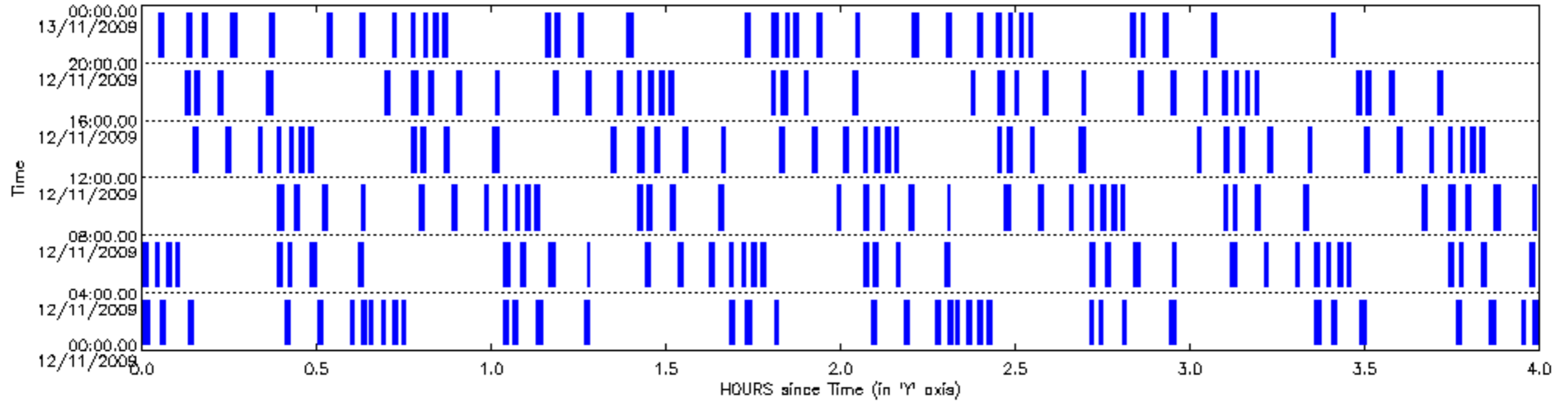
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

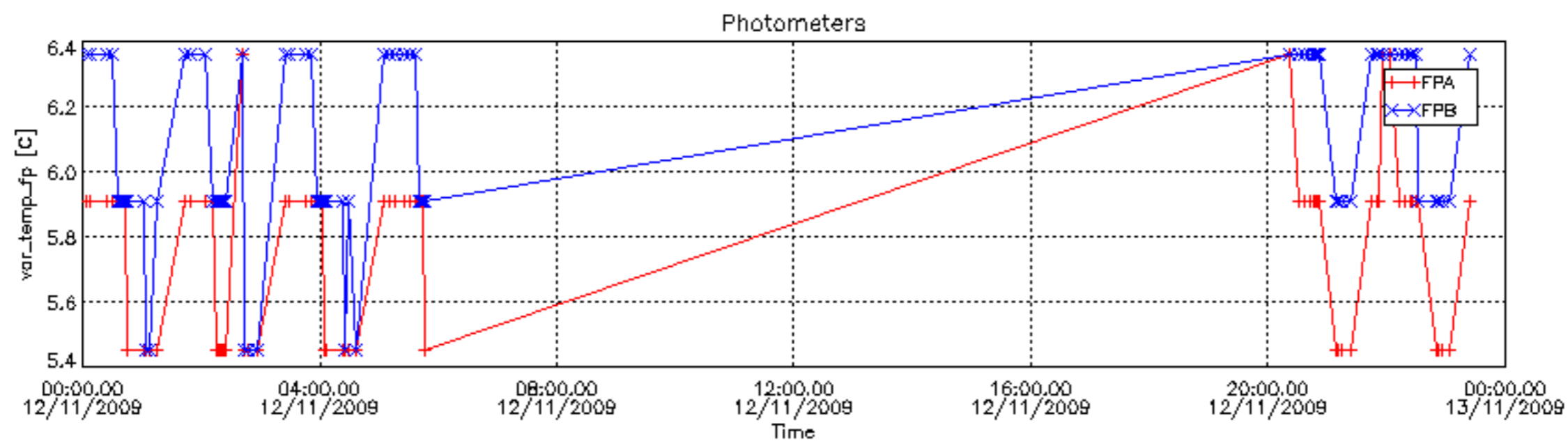
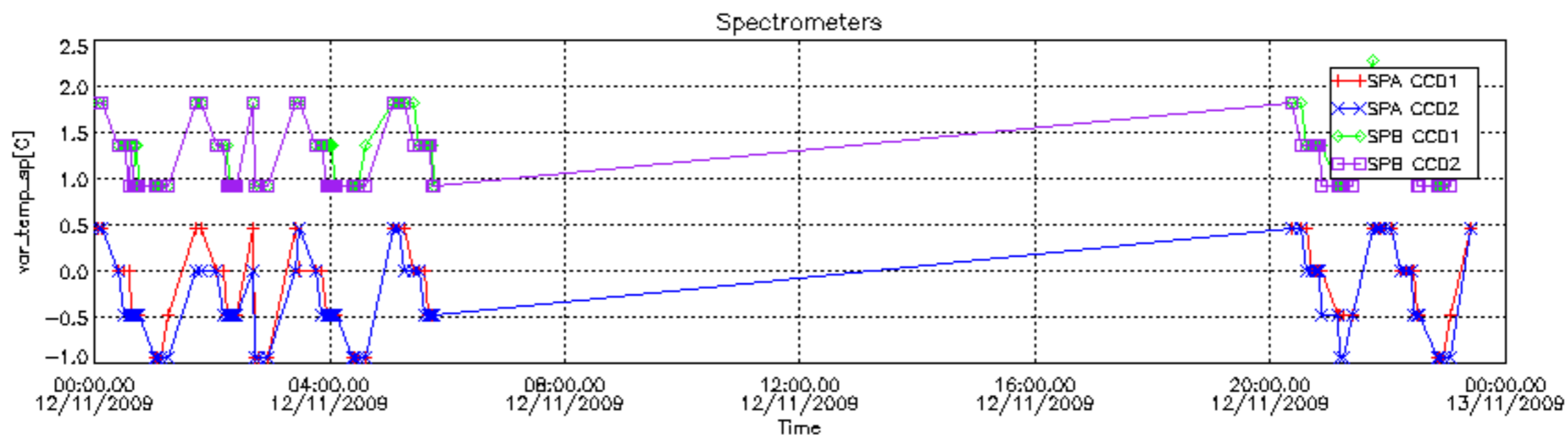


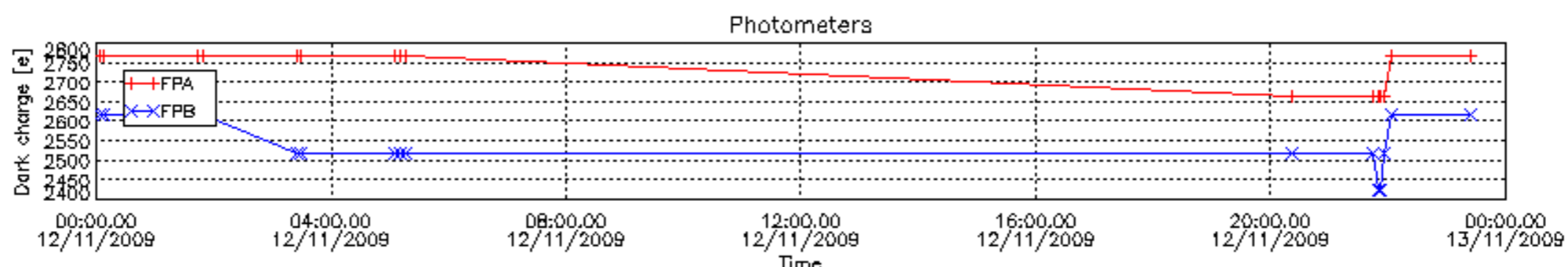
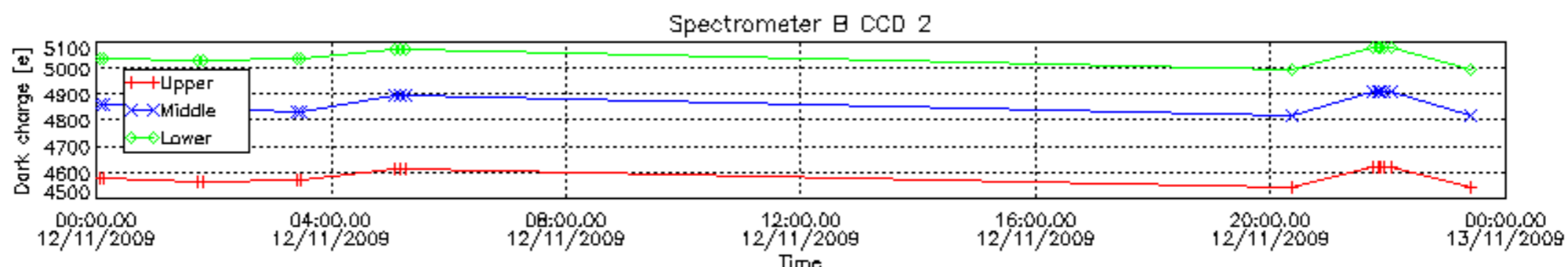
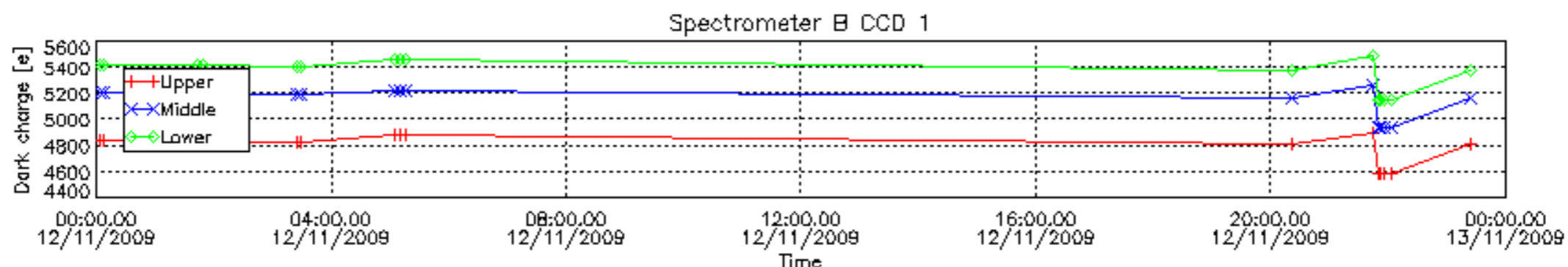
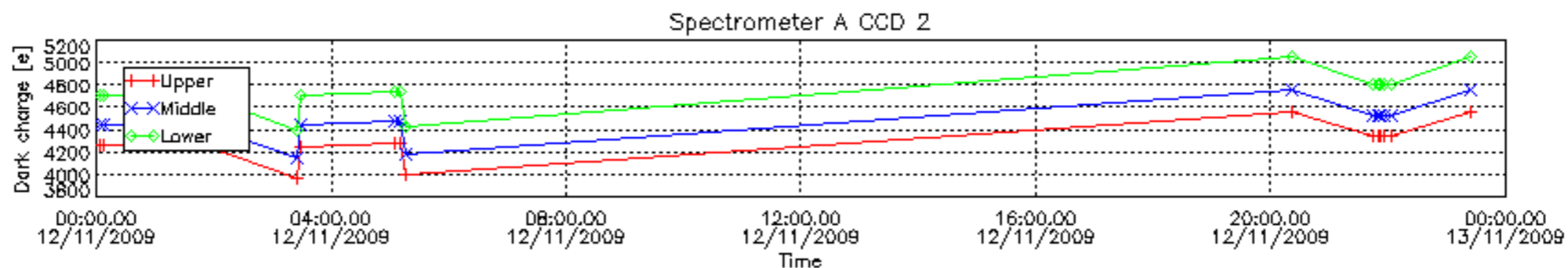
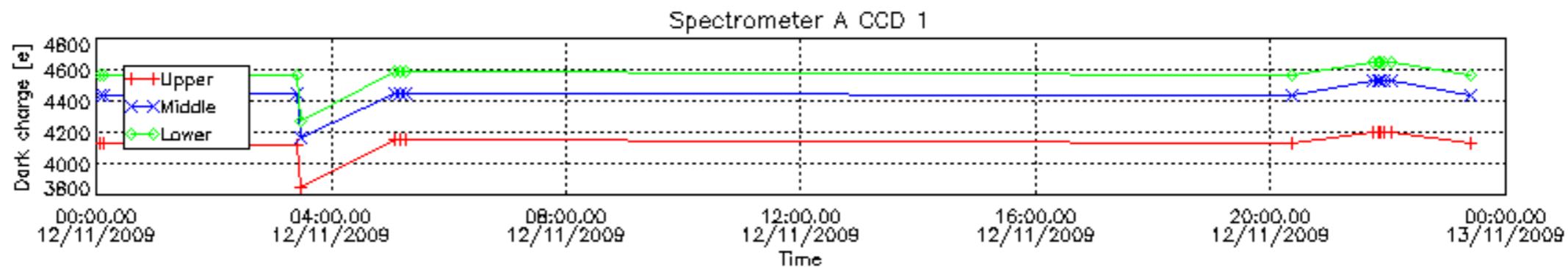
8. Auxiliary Data Files used for the production reported in section 2.4

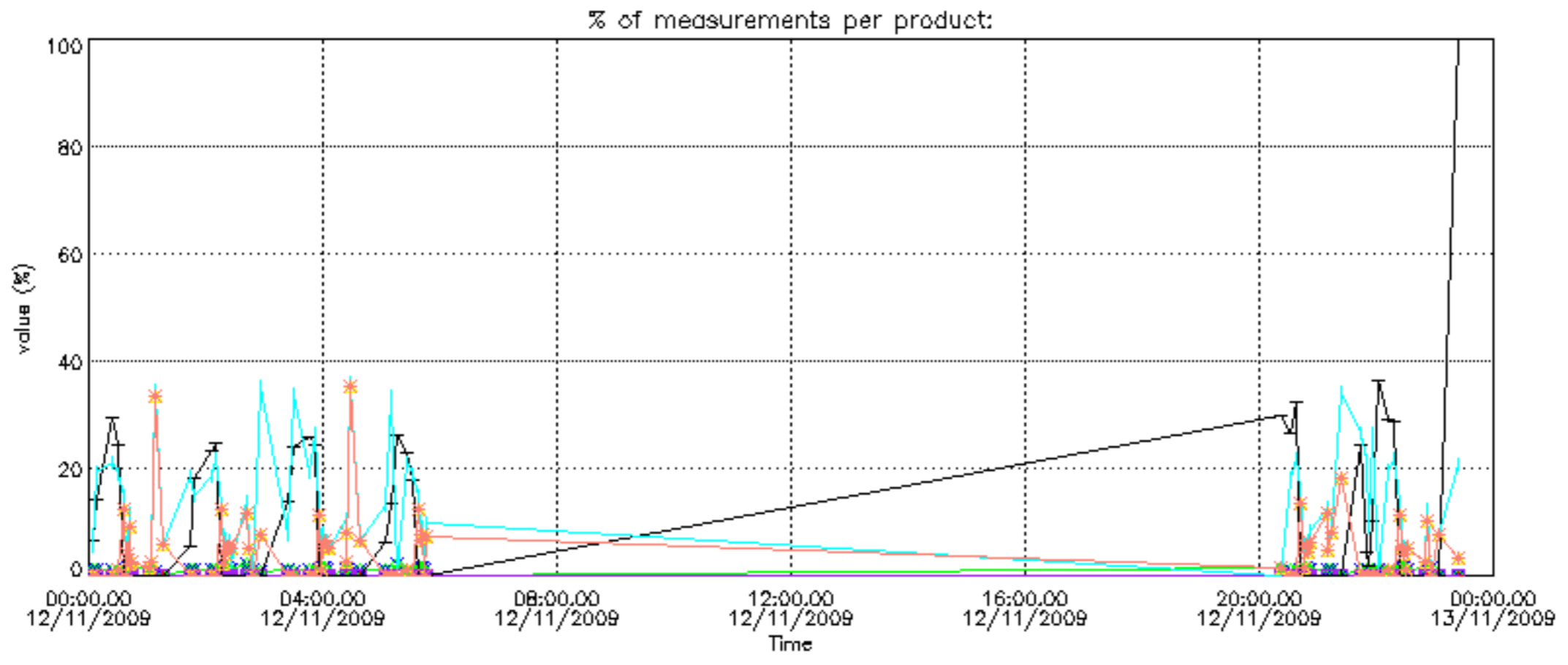
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-NOV-2009 00:03:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	12-NOV-2009 00:03:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	12-NOV-2009 00:03:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-NOV-2009 00:03:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	12-NOV-2009 00:03:03
ECMWF_FILE	AUX_ECF_AXNECM20091111_064113_20091111_210000_20091112_090000	1	12-NOV-2009 00:03:03
ECMWF_FILE	AUX_ECF_AXNECM20091111_184448_20091112_030000_20091112_150000	39	12-NOV-2009 04:23:18
ECMWF_FILE	AUX_ECF_AXNECM20091112_064109_20091112_150000_20091113_030000	53	12-NOV-2009 20:21:58
ECMWF_FILE	AUX_ECF_AXNECM20091112_064110_20091112_210000_20091113_090000	65	12-NOV-2009 21:43:34
OPTIONAL_ECMWF_FILE	MISSING	1	12-NOV-2009 00:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_234156_000057382084_00130_40264_9148.N1	1	12-NOV-2009 00:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091112_012253_000044632084_00131_40265_9149.N1	15	12-NOV-2009 01:43:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091112_024235_000054192084_00132_40266_9150.N1	25	12-NOV-2009 02:42:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091112_041813_000057382084_00133_40267_9151.N1	39	12-NOV-2009 04:23:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091112_201436_000041442084_00143_40277_9152.N1	53	12-NOV-2009 20:21:58
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091112_010110_20091111_185527_20091121_202140	65	12-NOV-2009 21:43:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091112_230956_000057382084_00144_40278_9154.N1	81	12-NOV-2009 23:24:10

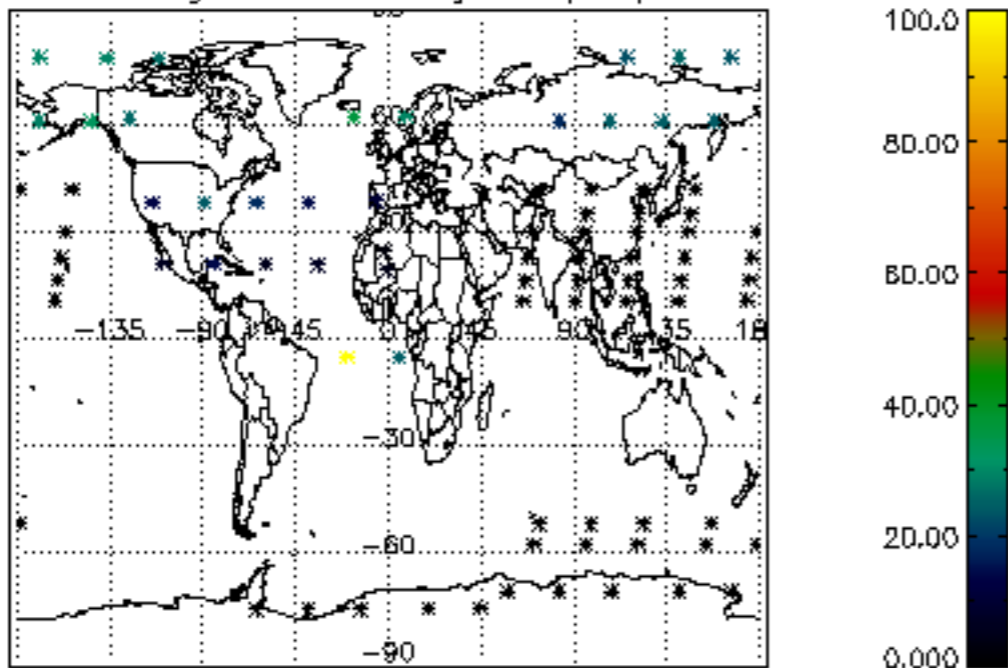




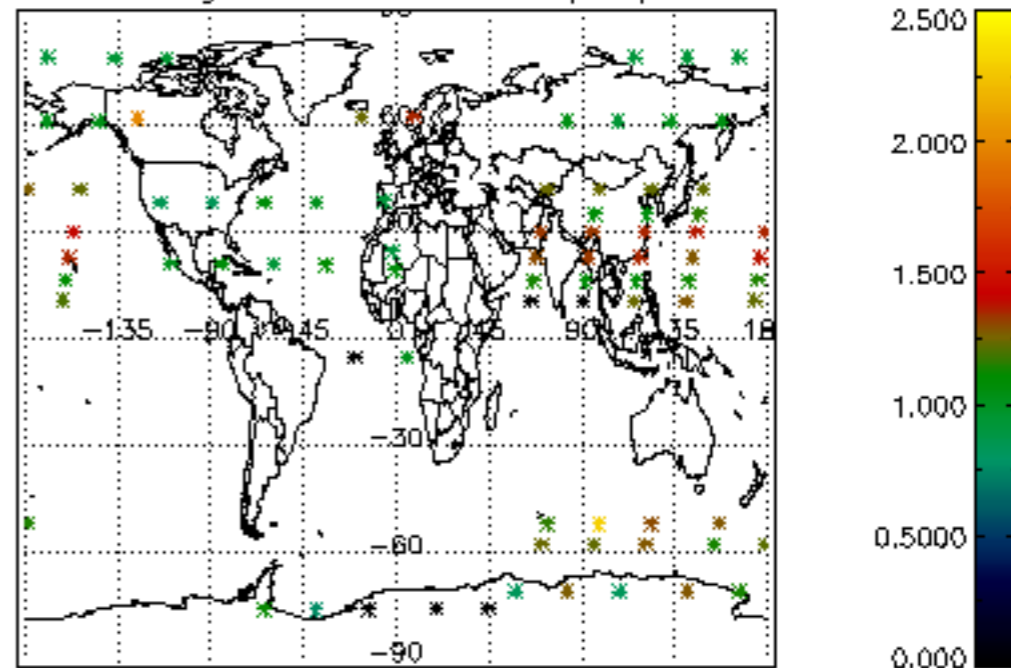




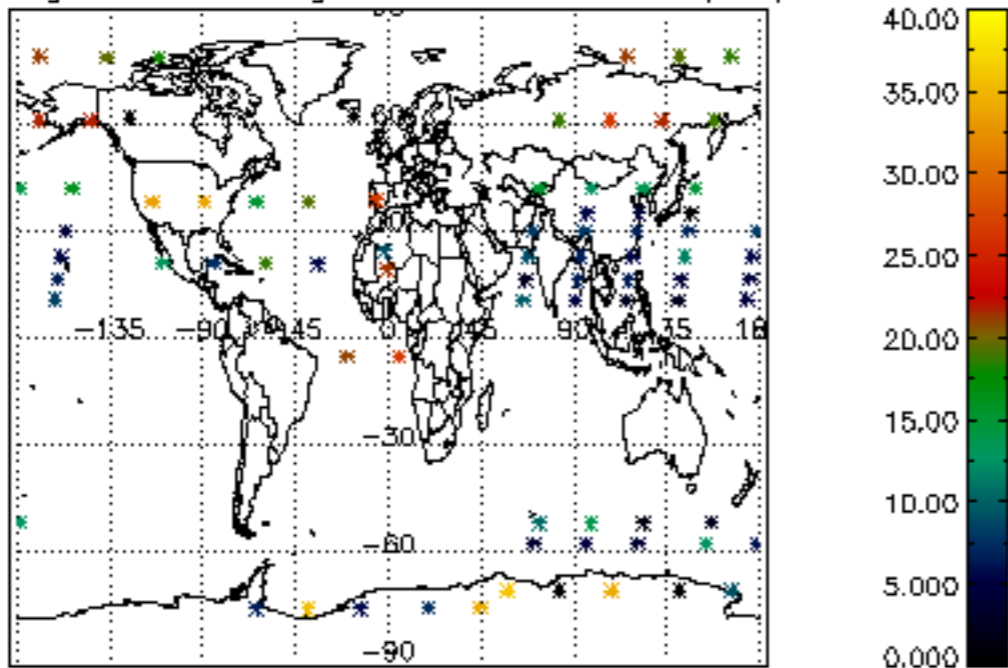
Percentage of cosmic ray hits per profile



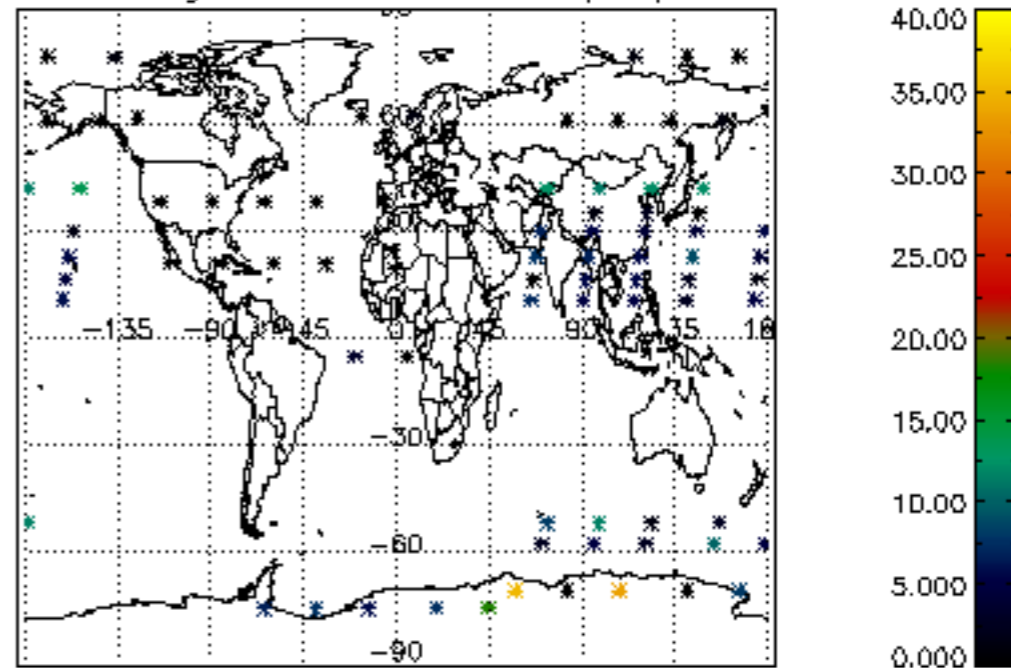
Percentage of datation errors per profile



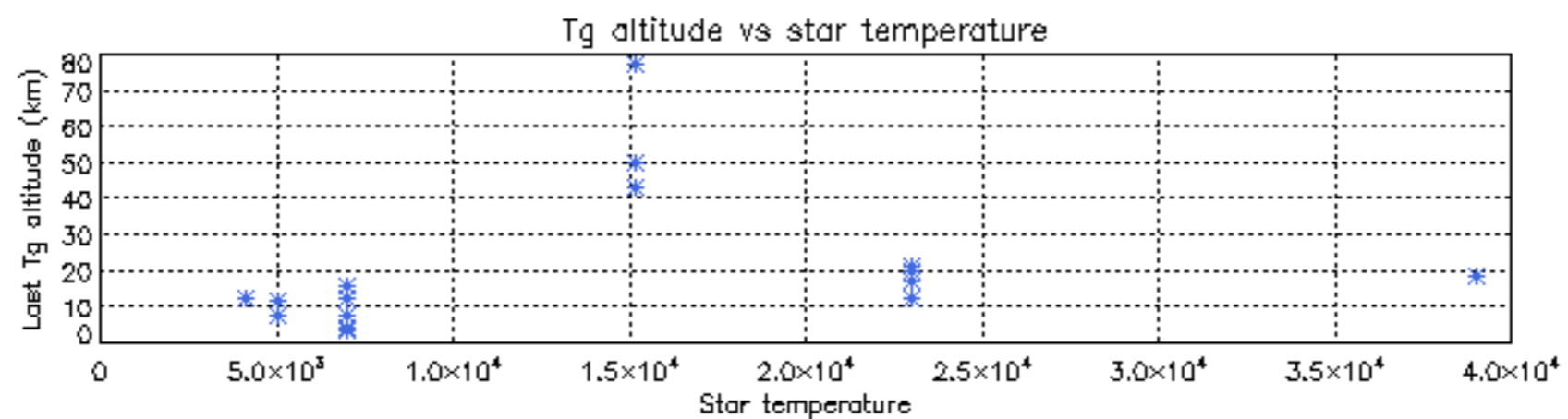
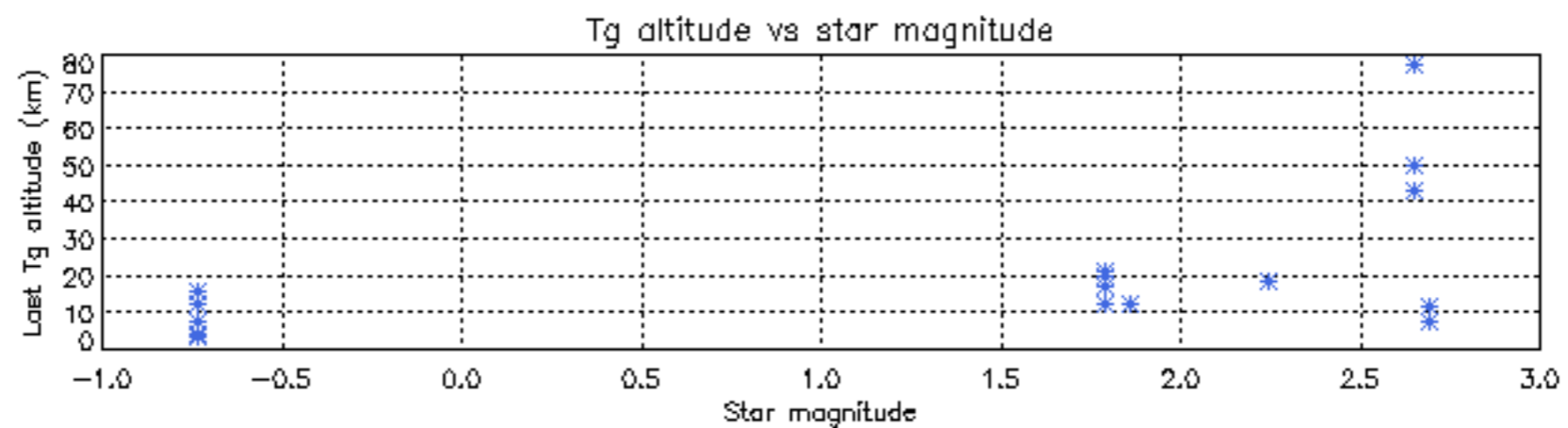
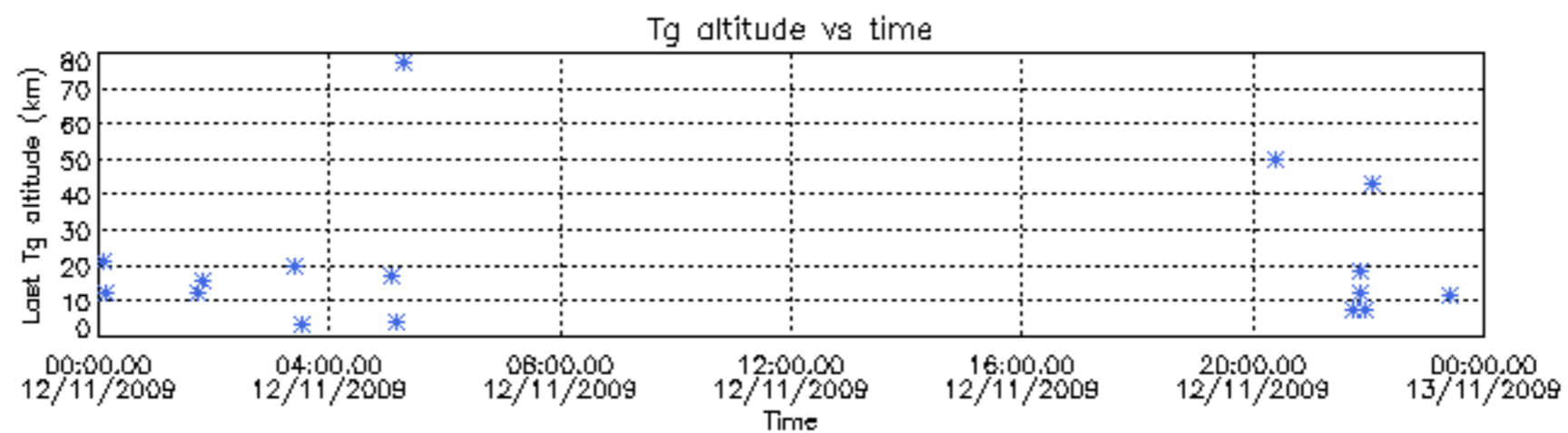
Percentage of star falling outside central band per profile



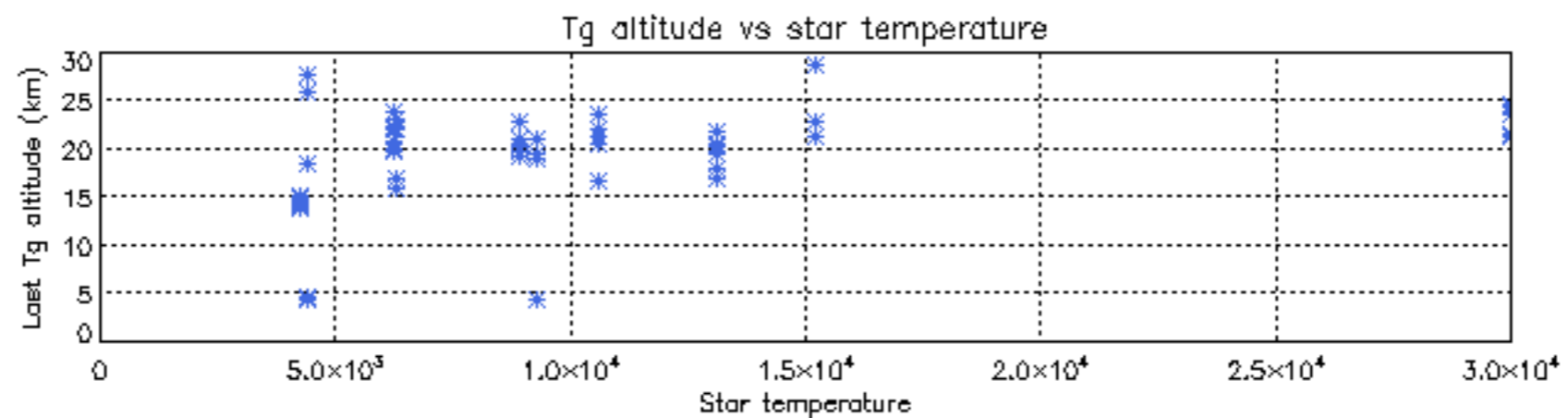
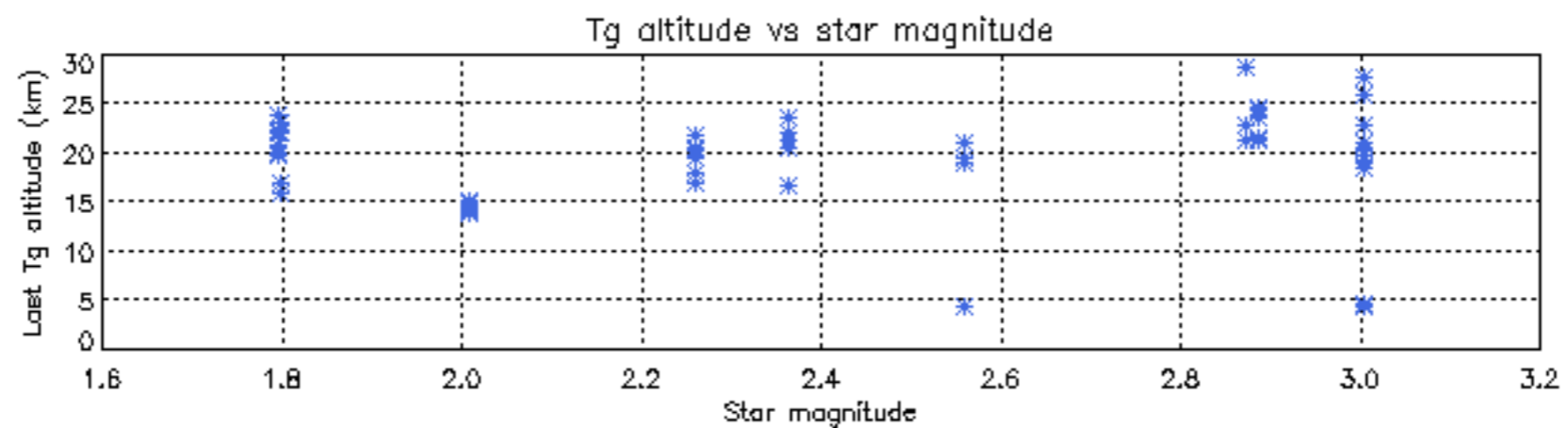
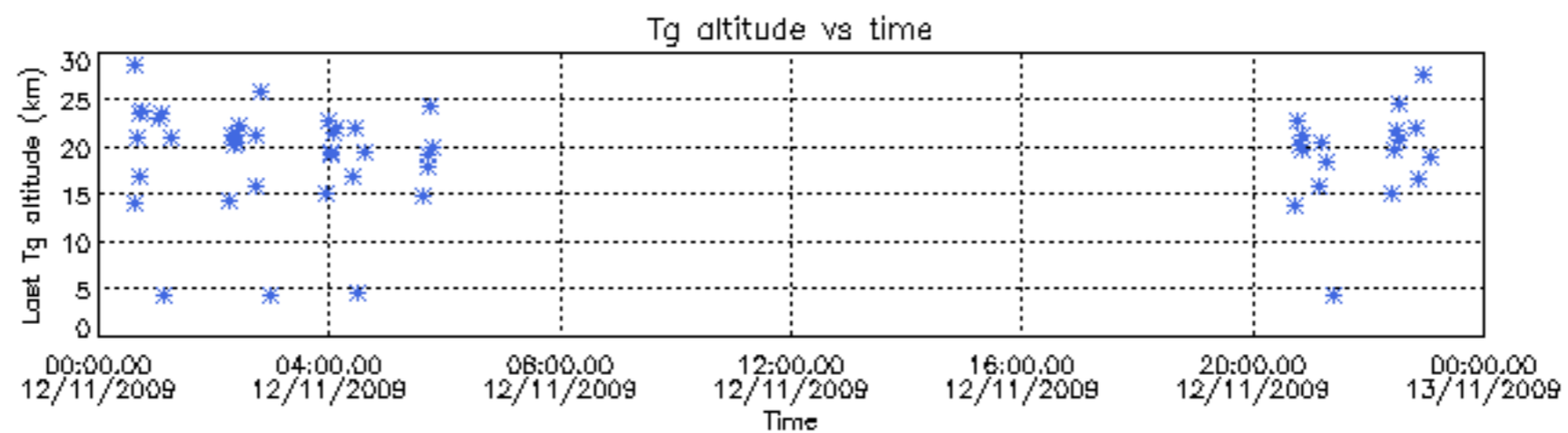
Percentage of saturation errors per profile

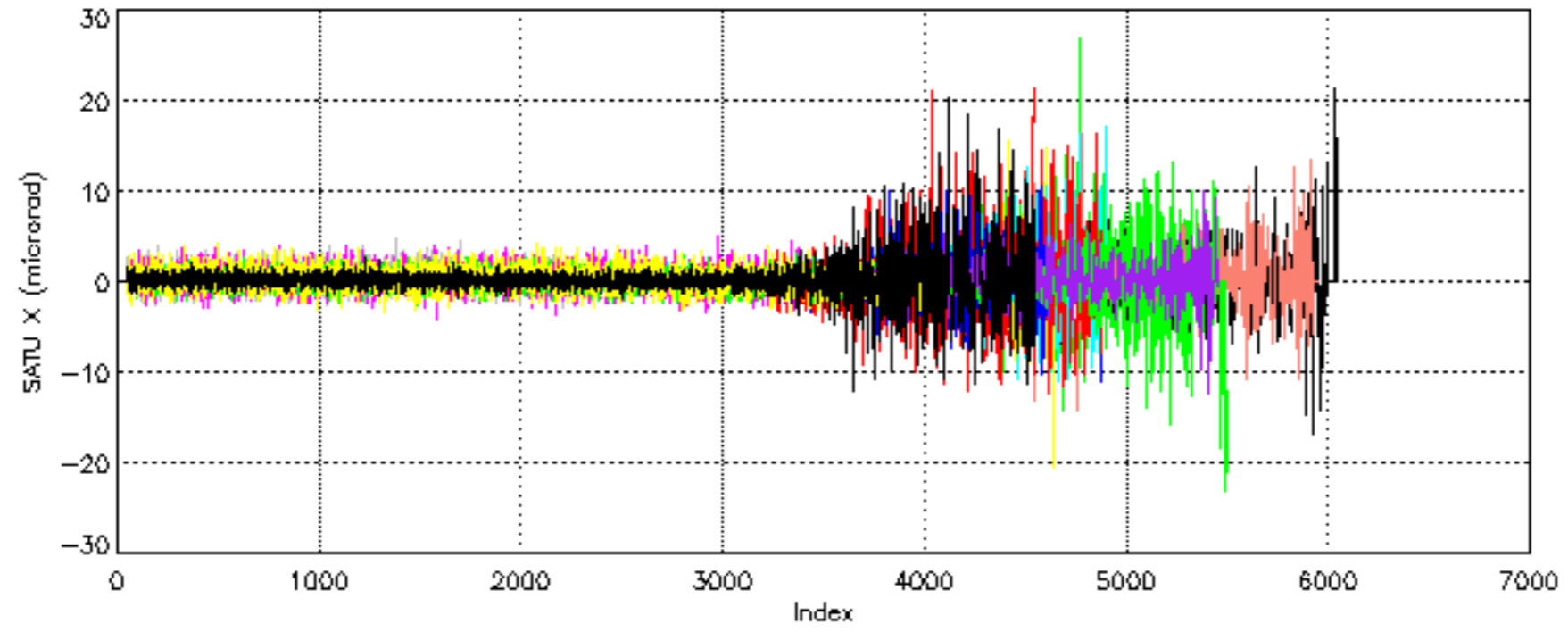


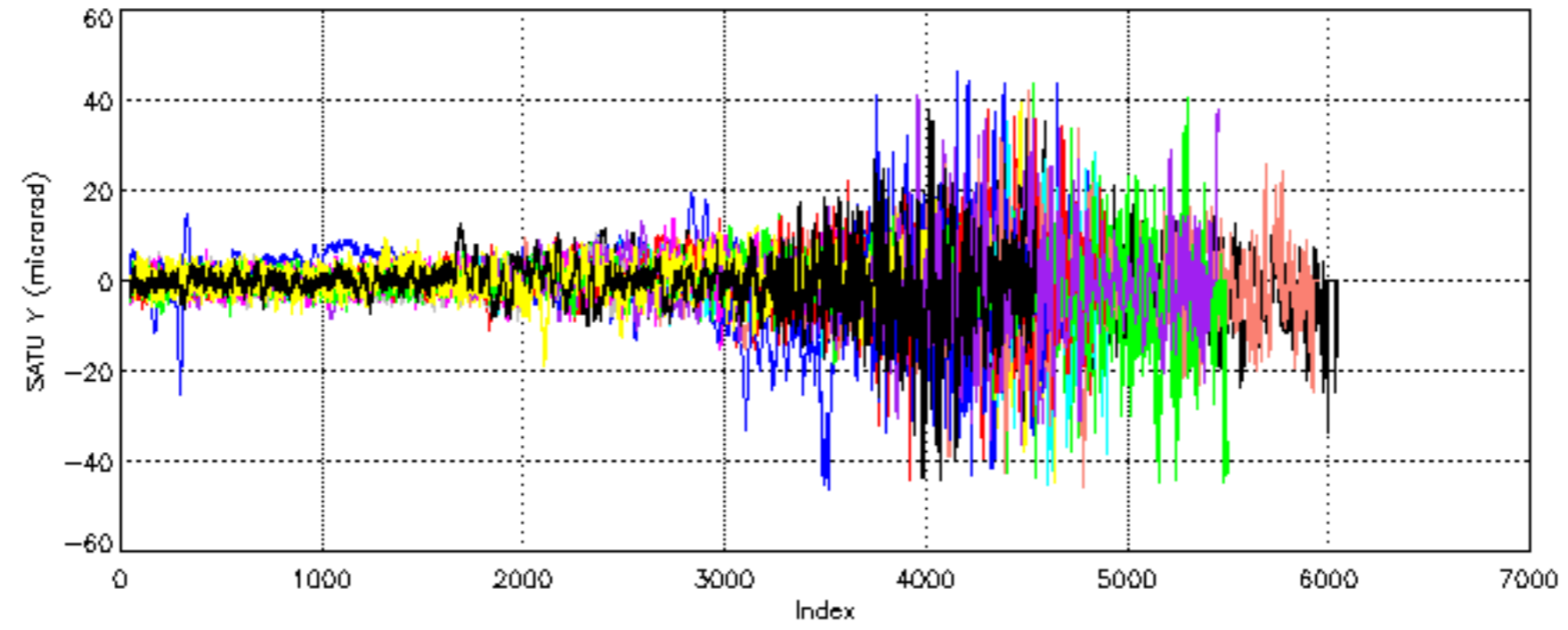
Tangent altitude at which the star is lost

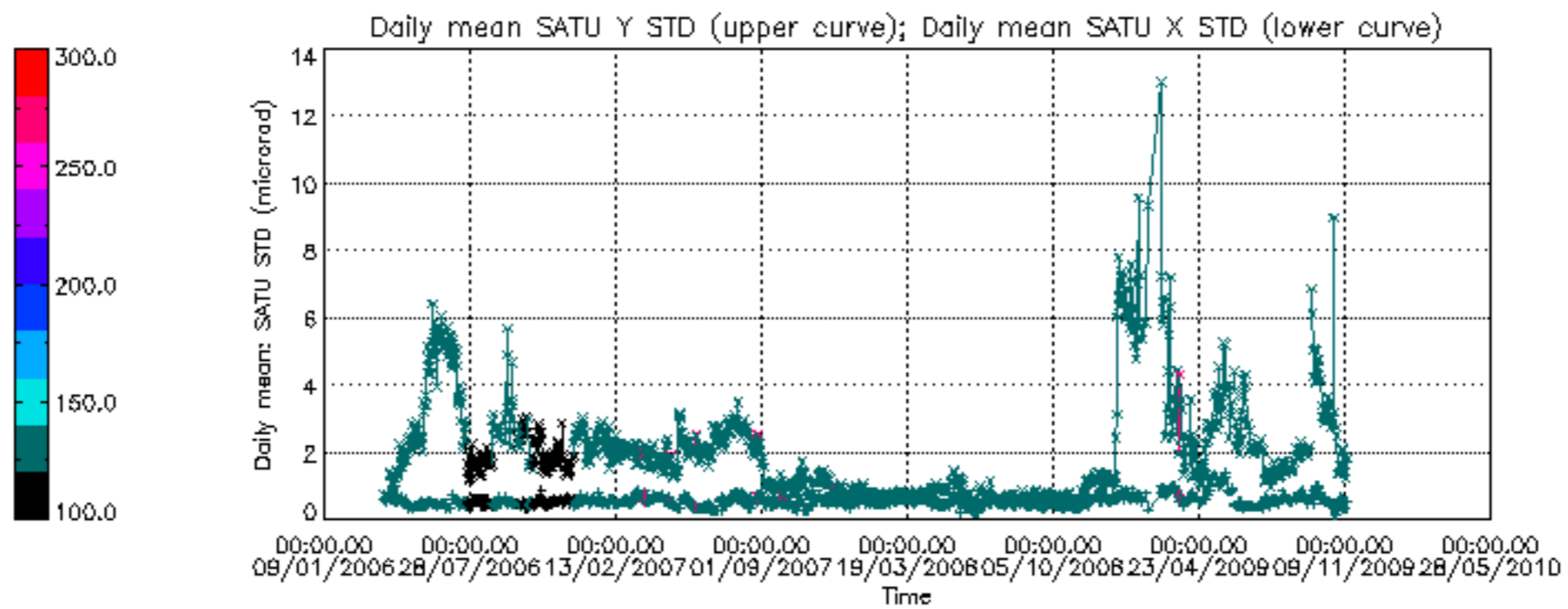


Tangent altitude at which the star is lost









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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
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 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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 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108
 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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 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
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110
 10; 526.2; 01-NOV-2009 04:13:13; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40110
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 12; 2010.0; 01-NOV-2009 04:37:57; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40110
 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110
 14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40110
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 5; -1096.0; 01-NOV-2009 05:26:47; Bright; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 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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 3; 2271.6; 01-NOV-2009 21:28:18; Bright; 39.0; 105; 6Bet Ari ; 2.64; 8900;occ; 78; 0;40120

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5; 2657.6; 01-NOV-2009 21:34:44; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;40120
6; 2928.5; 01-NOV-2009 21:39:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40120
7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
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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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 19; 6993.3; 04-NOV-2009 14:29:44; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40158

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 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159
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 4; 2522.2; 05-NOV-2009 12:43:36; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40172
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 7; 3905.2; 05-NOV-2009 13:06:39; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;40172
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 9; 4229.6; 05-NOV-2009 13:12:03; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;40172
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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
 12; 6074.7; 05-NOV-2009 13:42:49; Dark ; 62.0; 65; Lam Vel ; 2.20; 4400;occ; 124; 0;40172
 13; 6216.4; 05-NOV-2009 13:45:10; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40172
 14; 6314.4; 05-NOV-2009 13:46:48; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40172
 15; 6444.8; 05-NOV-2009 13:48:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40172
 16; 6610.1; 05-NOV-2009 13:51:44; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40172
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 3; 2269.1; 05-NOV-2009 14:19:59; Bright; 35.0; 105; 6Bet Ari ; 2.64; 8900;occ; 70; 0;40173
 4; 2522.2; 05-NOV-2009 14:24:12; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40173
 5; 2645.4; 05-NOV-2009 14:26:15; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40173
 6; 2814.8; 05-NOV-2009 14:29:05; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40173
 7; 3905.2; 05-NOV-2009 14:47:15; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40173
 8; 4002.7; 05-NOV-2009 14:48:52; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;40173
 9; 4229.8; 05-NOV-2009 14:52:40; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40173
 10; 4691.4; 05-NOV-2009 15:00:21; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;40173
 11; 4984.0; 05-NOV-2009 15:05:14; Dark ; 66.0; 22; 32Alp Leo ; 1.36; 15200;occ; 132; 0;40173
 12; 6075.9; 05-NOV-2009 15:23:26; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;40173
 13; 6217.4; 05-NOV-2009 15:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;40173
 14; 6315.6; 05-NOV-2009 15:27:25; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40173
 15; 6445.8; 05-NOV-2009 15:29:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40173
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 4; 2521.9; 05-NOV-2009 16:04:48; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40174
 5; 2645.1; 05-NOV-2009 16:06:51; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40174
 6; 2813.9; 05-NOV-2009 16:09:40; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40174
 7; 3905.1; 05-NOV-2009 16:27:51; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40174
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 9; 4229.9; 05-NOV-2009 16:33:16; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;40174
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 11; 4984.7; 05-NOV-2009 16:45:50; Dark ; 66.5; 22; 32Alp Leo ; 1.36; 15200;occ; 133; 0;40174
 12; 6076.7; 05-NOV-2009 17:04:03; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;40174
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 2; 1634.2; 05-NOV-2009 17:30:36; Dark ; 59.0; 165; 34Gam Eri ; 2.95; 3200;occ; 118; 0;40175
 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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4; 2317.2; 05-NOV-2009 17:41:59; Bright; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;40175
5; 2521.7; 05-NOV-2009 17:45:24; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40175
6; 2644.8; 05-NOV-2009 17:47:27; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40175
7; 2813.0; 05-NOV-2009 17:50:15; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40175
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9; 4002.5; 05-NOV-2009 18:10:04; Bright; 39.5; 82; 48Bet UMA ; 2.37; 10600;occ; 79; 0;40175
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15; 6318.1; 05-NOV-2009 18:48:40; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40175
16; 6447.6; 05-NOV-2009 18:50:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40175
17; 6612.5; 05-NOV-2009 18:53:34; Dark ; 61.5; 2; Alp Car ;-0.74; 7000;occ; 123; 0;40175
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4; 2317.1; 05-NOV-2009 19:22:35; Bright; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;40176
5; 2521.7; 05-NOV-2009 19:26:00; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40176
6; 2644.8; 05-NOV-2009 19:28:03; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40176
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17; 6448.4; 05-NOV-2009 20:31:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40176
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4; 1164.3; 06-NOV-2009 01:45:46; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40180
5; 1992.6; 06-NOV-2009 01:59:34; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40180
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7; 2520.5; 06-NOV-2009 02:08:22; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40180
8; 2643.8; 06-NOV-2009 02:10:25; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40180
9; 2878.0; 06-NOV-2009 02:14:19; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;40180
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5; 108.5; 06-NOV-2009 03:08:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40181
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7; 580.3; 06-NOV-2009 03:16:38; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40181
8; 1164.9; 06-NOV-2009 03:26:22; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;40181
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12; 2643.7; 06-NOV-2009 03:51:01; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40181
13; 2877.8; 06-NOV-2009 03:54:55; Bright; 42.0; 35; 33Alp Per ; 1.79; 6250;occ; 84; 0;40181
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3;-1806.3; 06-NOV-2009 04:17:27; Bright; 58.0; 174; 52Psi UMA ; 3.00; 4400;occ; 116; 0;40181
4;-1342.4; 06-NOV-2009 04:25:11; Bright; 49.5; 96; 68Del Leo ; 2.56; 9300;occ; 99; 0;40181
5; 109.3; 06-NOV-2009 04:49:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40182
6; 267.8; 06-NOV-2009 04:52:01; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40182
7; 581.0; 06-NOV-2009 04:57:14; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40182
8; 1164.9; 06-NOV-2009 05:06:58; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40182

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3; 2264.2; 06-NOV-2009 20:30:41; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40191
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9; 4229.2; 06-NOV-2009 21:03:26; Bright; 41.0; 174; 52Psi UMA ; 3.00; 4400;occ; 82; 0;40191
10; 4696.3; 06-NOV-2009 21:11:13; Bright; 60.5; 96; 68Del Leo ; 2.56; 9300;occ; 121; 0;40191
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3; 589.2; 06-NOV-2009 23:23:58; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;40193
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8; 3997.0; 08-NOV-2009 16:35:08; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40217
9; 4228.4; 08-NOV-2009 16:38:59; Bright; 43.0; 174; 52Psi UMa ; 3.00; 4400;occ; 86; 0;40217
10; 4704.3; 08-NOV-2009 16:46:55; Bright; 42.0; 96; 68Del Leo ; 2.56; 9300;occ; 84; 0;40217
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4; 2512.0; 09-NOV-2009 15:38:46; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40231
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 6; 2262.4; 10-NOV-2009 03:18:47; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40238
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6; 324.7; 10-NOV-2009 07:48:18; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40241
7; 623.8; 10-NOV-2009 07:53:17; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40241
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4; 2510.5; 10-NOV-2009 08:24:43; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40241
5; 2634.2; 10-NOV-2009 08:26:47; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;40241
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13; 6361.7; 10-NOV-2009 09:28:55; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40241
14; 6660.3; 10-NOV-2009 09:33:53; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;40241

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4; 2510.2; 10-NOV-2009 10:05:19; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40242
5; 2634.0; 10-NOV-2009 10:07:23; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;40242
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