

GOMOS Daily Report 05-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	07NOV2009 04:35:41
Data source version	GOMOS/5.00L03
Start time of products	05NOV2009 00:17:54
Stop time of products	05NOV2009 23:46:30
Store outputs in DB	Yes
Nb of level 1b prods	93
Nb of prods with errors	0

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

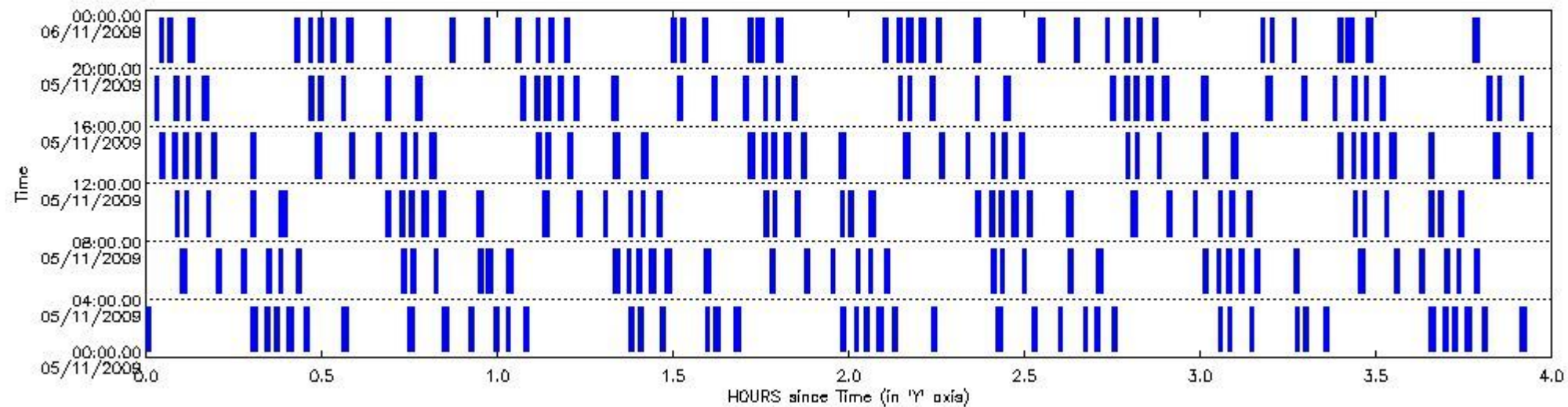
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

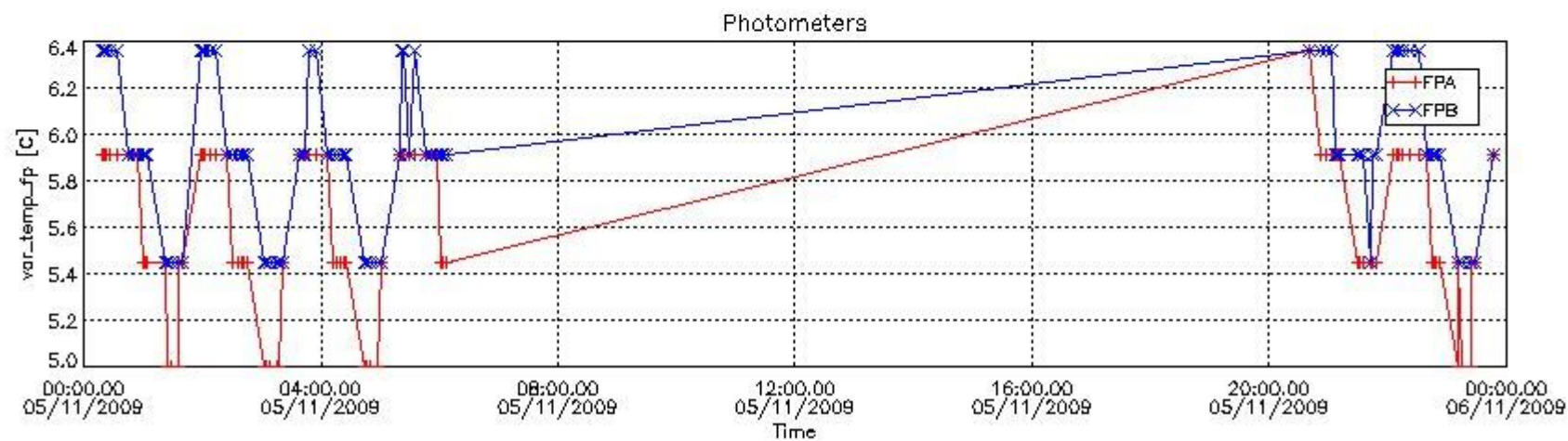
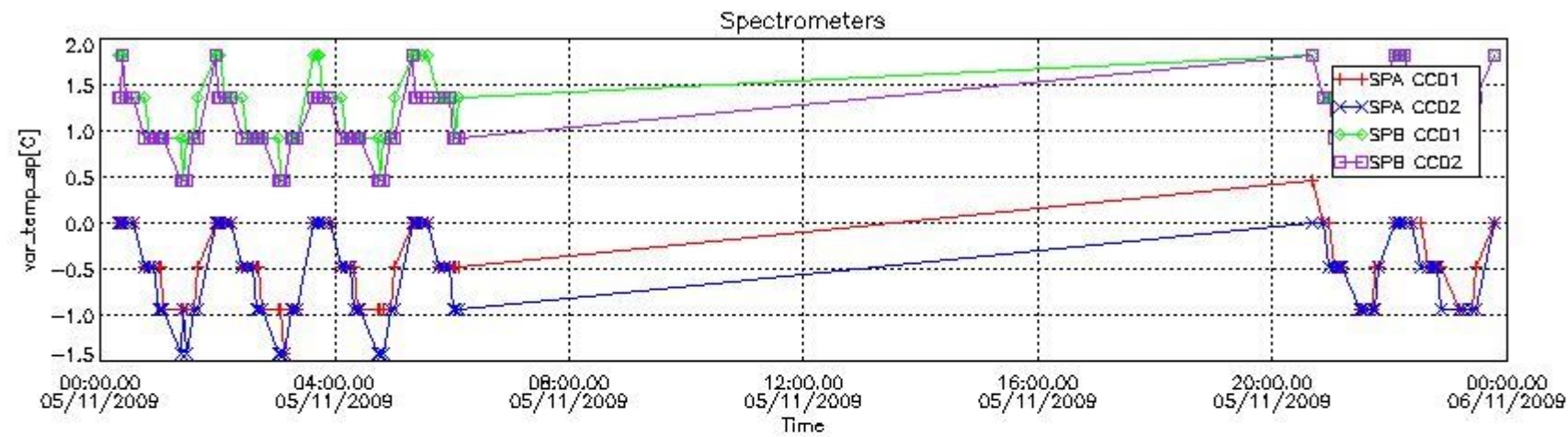
No missing products.

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_1PNPDE20091105_001754_000000612084_00031_40165_2677.N1	05-NOV-2009 00:17:54	Dark	60.500	65	Lam Vel	2.2040	4400.0	121	40165	No
2	GOM_TRA_1PNPDE20091105_002017_000000522084_00031_40165_2678.N1	05-NOV-2009 00:20:17	Dark	51.500	46	Del Vel	1.9540	10600.	103	40165	No
3	GOM_TRA_1PNPDE20091105_002151_000000542084_00031_40165_2679.N1	05-NOV-2009 00:21:51	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40165	No
4	GOM_TRA_1PNPDE20091105_002650_000000492084_00031_40165_2680.N1	05-NOV-2009 00:26:50	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40165	No
5	GOM_TRA_1PNPDE20091105_003325_000000602084_00031_40165_2681.N1	05-NOV-2009 00:33:25	Dark	59.500	108	Alp Col	2.6520	15200.	119	40165	No
6	GOM_TRA_1PNPDE20091105_004436_000000602084_00031_40165_2682.N1	05-NOV-2009 00:44:36	Straylight	59.500	165	34Gam Eri	2.9500	3200.0	119	40165	No
7	GOM_TRA_1PNPDE20091105_005038_000000532084_00031_40165_2683.N1	05-NOV-2009 00:50:38	Twilight_stray	52.500	94	92Alp Cet	2.5260	3100.0	105	40165	No
8	GOM_TRA_1PNPDE20091105_005509_000000382084_00031_40165_2684.N1	05-NOV-2009 00:55:09	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40165	No
9	GOM_TRA_1PNPDE20091105_005926_000000382084_00031_40165_2685.N1	05-NOV-2009 00:59:26	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40165	No
10	GOM_TRA_1PNPDE20091105_010129_000000402084_00031_40165_2686.N1	05-NOV-2009 01:01:29	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40165	No
11	GOM_TRA_1PNPDE20091105_010424_000000502084_00031_40165_2687.N1	05-NOV-2009 01:04:24	Bright	50.000	149	45Eps Per	2.8880	30000.	100	40165	No
12	GOM_TRA_1PNPDE20091105_012228_000000432084_00031_40165_2688.N1	05-NOV-2009 01:22:28	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40165	No

72	GOM_TRA_1PNPDE20091105_213503_000000402084_00043_40177_2778.N1	05-NOV-2009 21:35:03	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40177	No
73	GOM_TRA_1PNPDE20091105_214246_000000412084_00043_40177_2779.N1	05-NOV-2009 21:42:46	Bright	40.500	96	68Del Leo	2.5600	9300.0	81	40177	No
74	GOM_TRA_1PNPDE20091105_214413_000000752084_00043_40177_2780.N1	05-NOV-2009 21:44:13	Bright	75.000	51	41Gam1Leo	2.0100	4500.0	150	40177	No
75	GOM_TRA_1PNPDE20091105_214741_000000642084_00043_40177_2781.N1	05-NOV-2009 21:47:41	Twilight	64.000	22	32Alp Leo	1.3600	15200.	128	40177	No
76	GOM_TRA_1PNPDE20091105_220553_000000482084_00044_40178_2774.N1	05-NOV-2009 22:05:53	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	40178	No
77	GOM_TRA_1PNPDE20091105_220814_000000422084_00044_40178_2775.N1	05-NOV-2009 22:08:14	Dark	42.000	46	Del Vel	1.9540	10600.	84	40178	No
78	GOM_TRA_1PNPDE20091105_220954_000000542084_00044_40178_2776.N1	05-NOV-2009 22:09:54	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40178	No
79	GOM_TRA_1PNPDE20091105_221448_000000492084_00044_40178_2777.N1	05-NOV-2009 22:14:48	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40178	No
80	GOM_TRA_1PNPDE20091105_222124_000000592084_00044_40178_2778.N1	05-NOV-2009 22:21:24	Dark	58.500	108	Alp Col	2.6520	15200.	117	40178	No
81	GOM_TRA_1PNPDE20091105_223224_000000572084_00044_40178_2779.N1	05-NOV-2009 22:32:24	Straylight	57.000	165	34Gam Eri	2.9500	3200.0	114	40178	No
82	GOM_TRA_1PNPDE20091105_223823_000000532084_00044_40178_2780.N1	05-NOV-2009 22:38:23	Twilight	53.000	94	92Alp Cet	2.5260	3100.0	106	40178	No
83	GOM_TRA_1PNPDE20091105_224346_000000412084_00044_40178_2781.N1	05-NOV-2009 22:43:46	Bright	41.000	50	13Alp Ari	2.0070	4250.0	82	40178	No
84	GOM_TRA_1PNPDE20091105_224711_000000382084_00044_40178_2782.N1	05-NOV-2009 22:47:11	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40178	No
85	GOM_TRA_1PNPDE20091105_224914_000000392084_00044_40178_2783.N1	05-NOV-2009 22:49:14	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40178	No
86	GOM_TRA_1PNPDE20091105_225200_000000492084_00044_40178_2784.N1	05-NOV-2009 22:52:00	Bright	49.000	149	45Eps Per	2.8880	30000.	98	40178	No
87	GOM_TRA_1PNPDE20091105_231014_000000432084_00044_40178_2785.N1	05-NOV-2009 23:10:14	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40178	No
88	GOM_TRA_1PNPDE20091105_231151_000000422084_00044_40178_2786.N1	05-NOV-2009 23:11:51	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40178	No
89	GOM_TRA_1PNPDE20091105_231539_000000382084_00044_40178_2787.N1	05-NOV-2009 23:15:39	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40178	No
90	GOM_TRA_1PNPDE20091105_232322_000000572084_00044_40178_2788.N1	05-NOV-2009 23:23:22	Bright	56.500	96	68Del Leo	2.5600	9300.0	113	40178	No
91	GOM_TRA_1PNPDE20091105_232449_000000752084_00044_40178_2789.N1	05-NOV-2009 23:24:49	Bright	75.000	51	41Gam1Leo	2.0100	4500.0	150	40178	No
92	GOM_TRA_1PNPDE20091105_232817_000000662084_00044_40178_2790.N1	05-NOV-2009 23:28:17	Twilight	65.500	22	32Alp Leo	1.3600	15200.	131	40178	No
93	GOM_TRA_1PNPDE20091105_234630_000000622084_00045_40179_2779.N1	05-NOV-2009 23:46:30	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	40179	No

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



4. Overview of dark signal processing per product

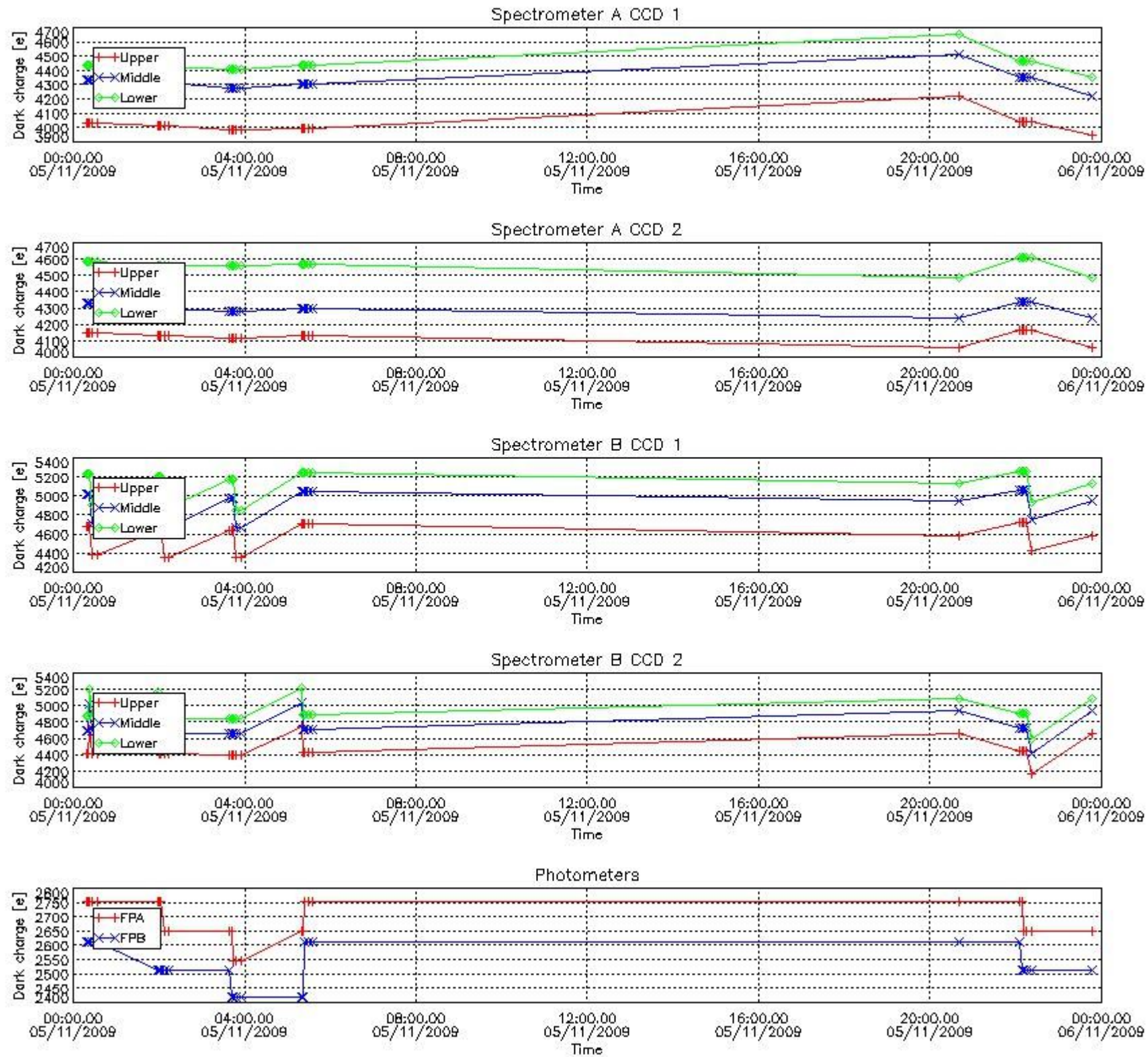
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091105_204047_000000582084_00043_40177_2769.N1	DC map used
GOM_TRA_1PNPDE20091105_205148_000000582084_00043_40177_2770.N1	DC map used
GOM_TRA_1PNPDE20091105_205747_000000512084_00043_40177_2771.N1	DC map used
GOM_TRA_1PNPDE20091105_210311_000000412084_00043_40177_2772.N1	DC map used
GOM_TRA_1PNPDE20091105_210635_000000362084_00043_40177_2773.N1	DC map used
GOM_TRA_1PNPDE20091105_210838_000000552084_00043_40177_2774.N1	DC map used
GOM_TRA_1PNPDE20091105_211125_000000472084_00043_40177_2775.N1	DC map used
GOM_TRA_1PNPDE20091105_212939_000000432084_00043_40177_2776.N1	DC map used
GOM_TRA_1PNPDE20091105_213116_000000412084_00043_40177_2777.N1	DC map used
GOM_TRA_1PNPDE20091105_213503_000000402084_00043_40177_2778.N1	DC map used
GOM_TRA_1PNPDE20091105_214246_000000412084_00043_40177_2779.N1	DC map used
GOM_TRA_1PNPDE20091105_214413_000000752084_00043_40177_2780.N1	DC map used
GOM_TRA_1PNPDE20091105_214741_000000642084_00043_40177_2781.N1	DC map used
GOM_TRA_1PNPDE20091105_234630_000000622084_00045_40179_2779.N1	DC map used

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



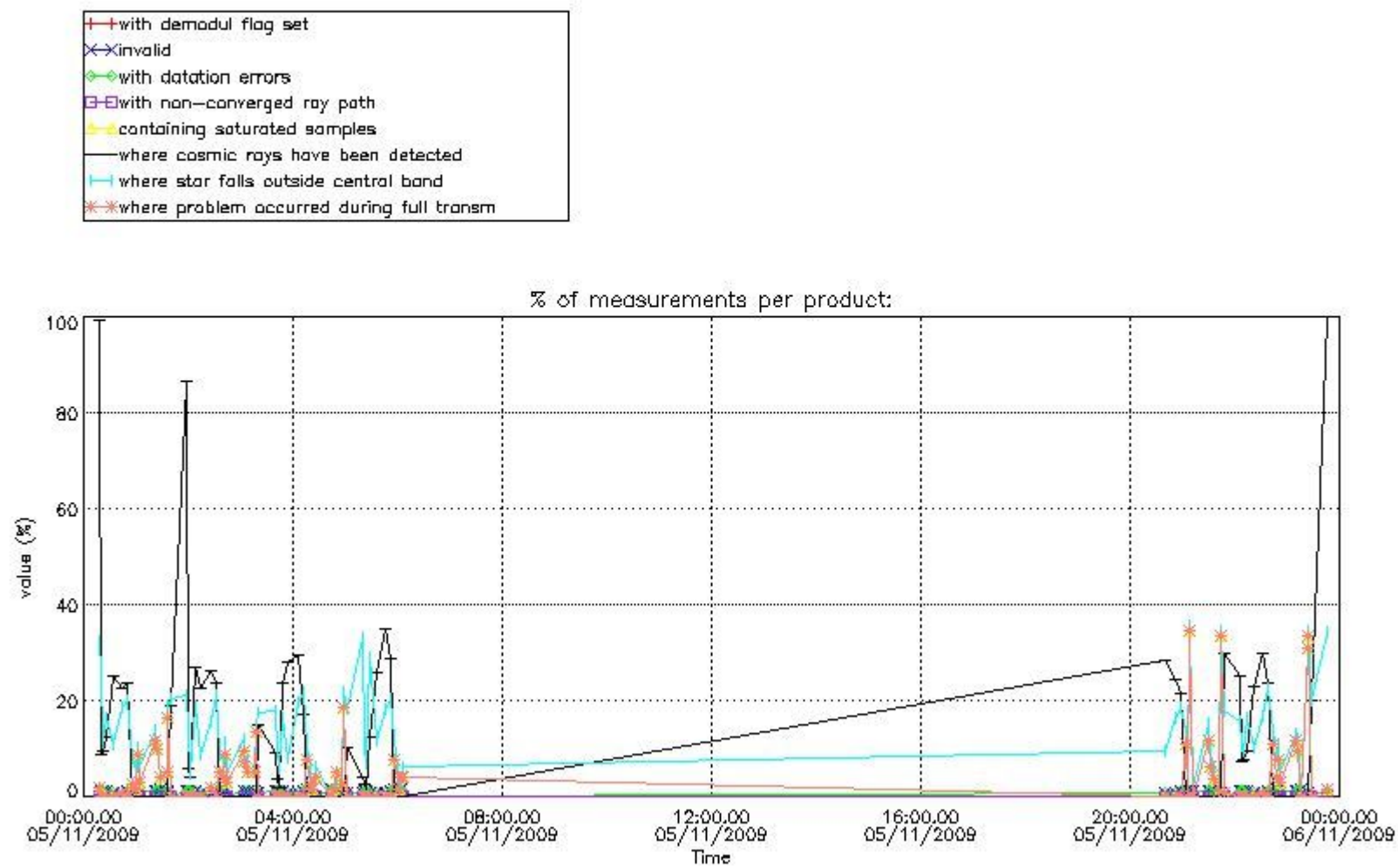
5. Demodulation flag and quality information monitoring

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.

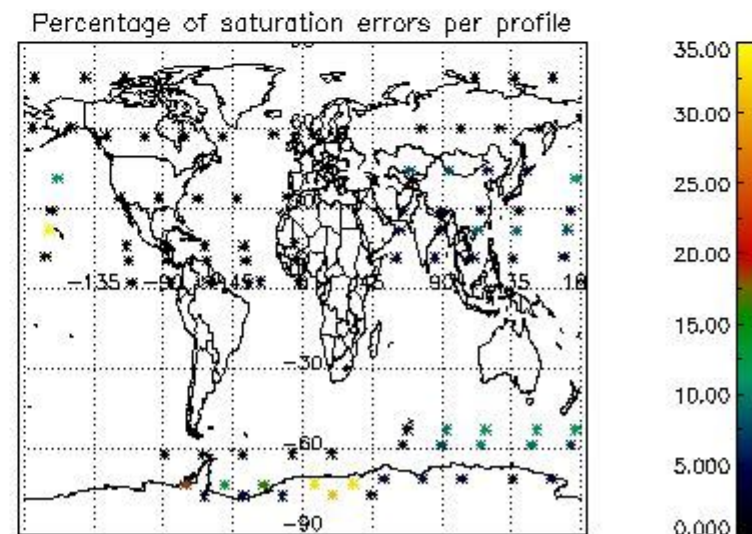
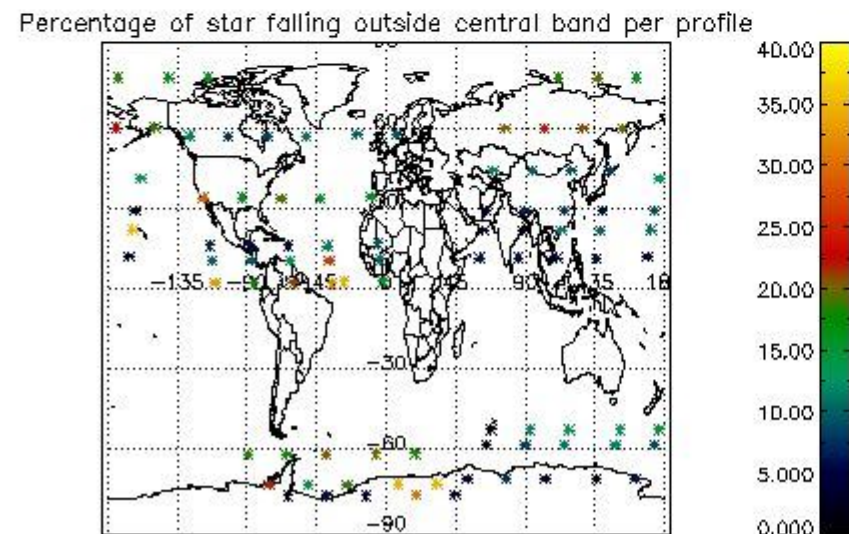
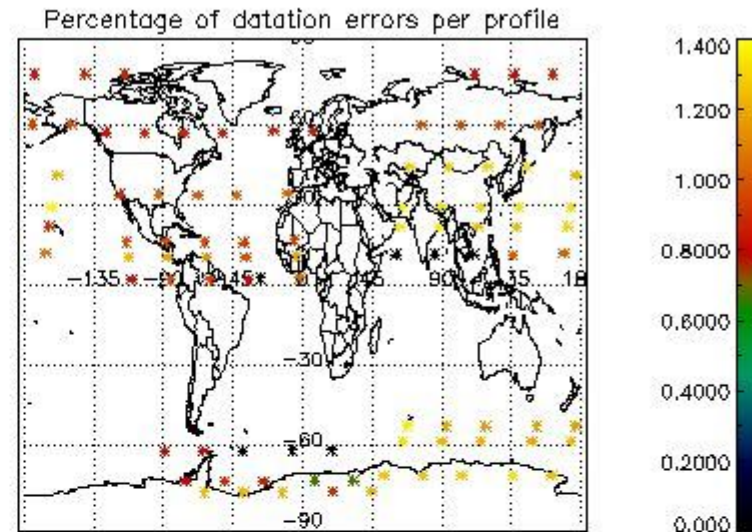
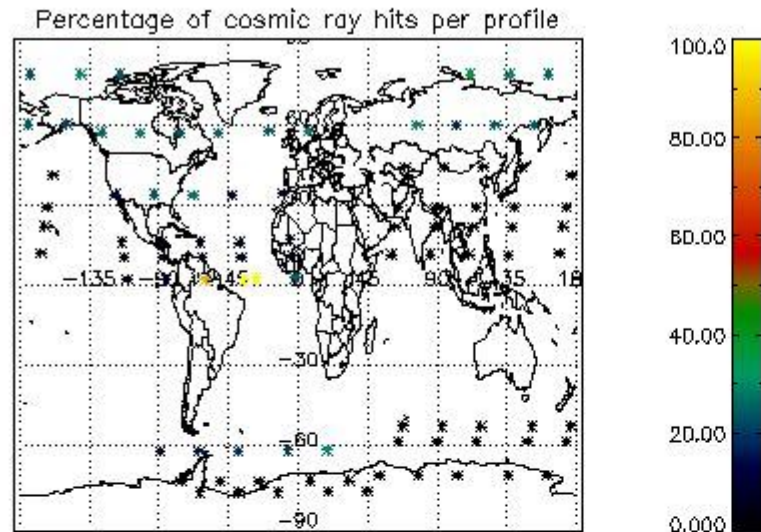
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.6344 %
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)



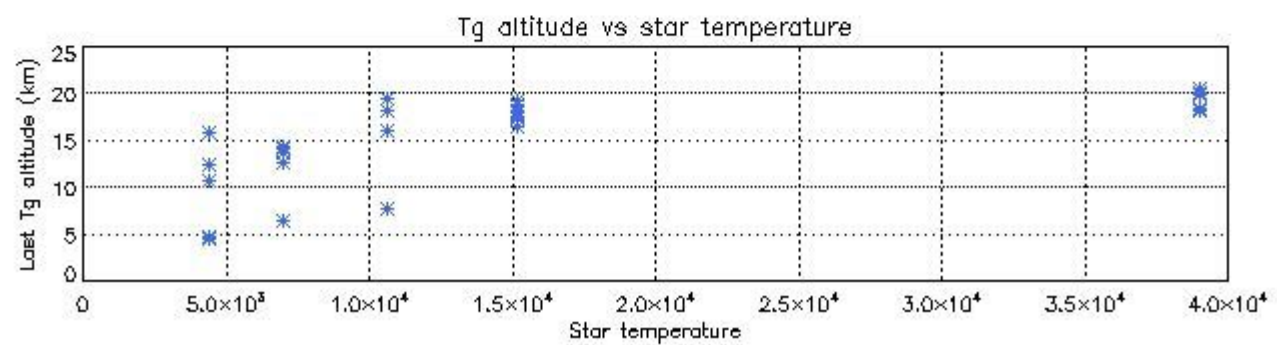
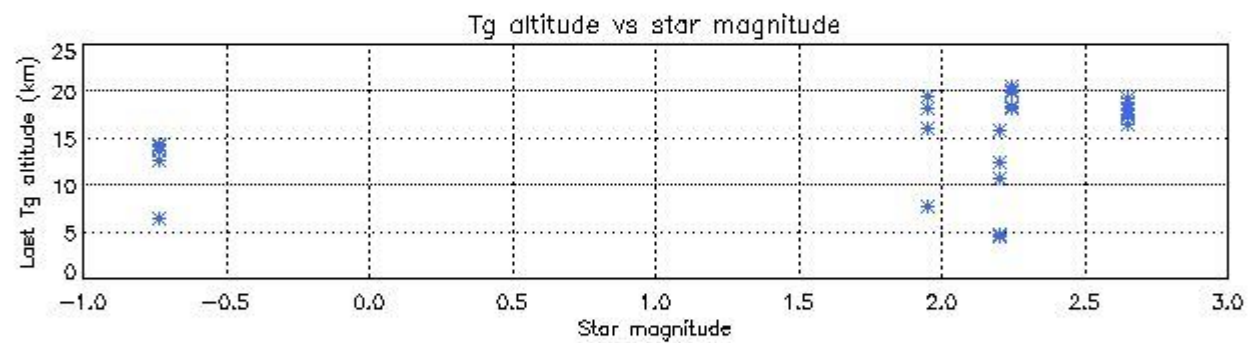
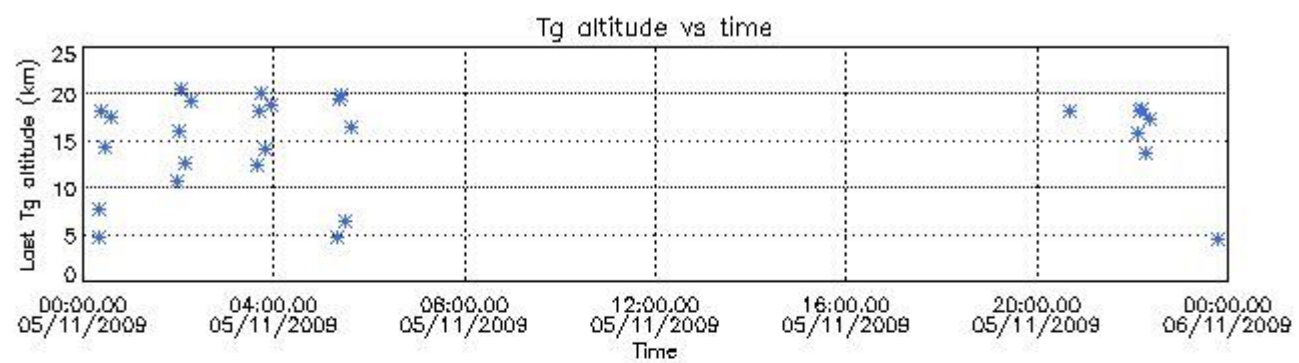
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.723	18.607	NaN
St. deviation:	5.1126	5.5191	NaN
Maximum:	20.456	25.886	NaN
Minimum:	4.3804	3.7850	NaN
Number of data:	27.000	49.000	NaN

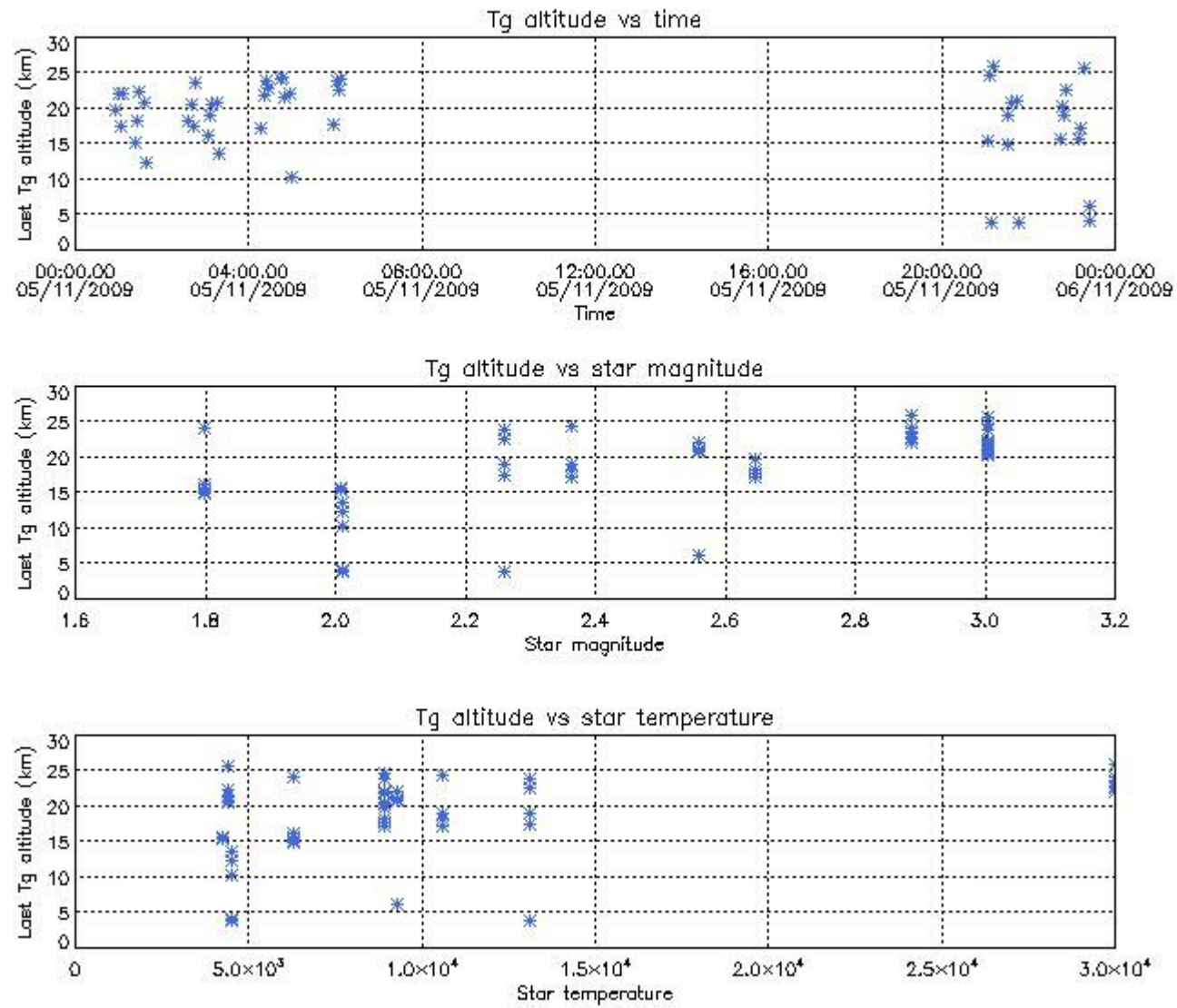
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

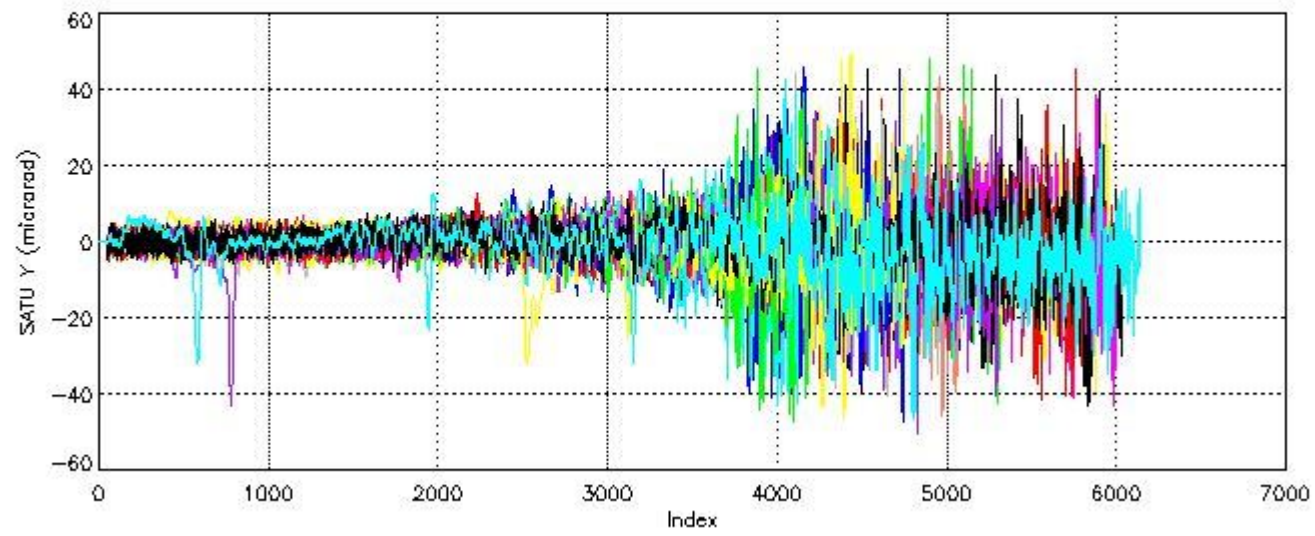
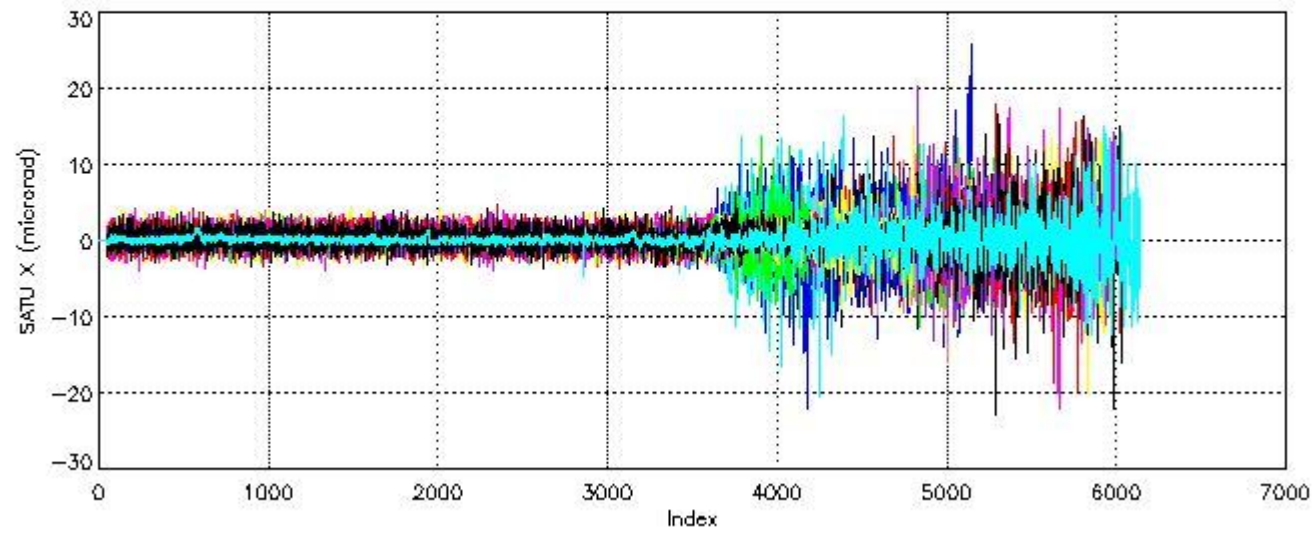


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20449	-0.24129	0.17805	-0.13235
St. deviation:	0.60927	2.0378	0.94212	1.9628
Maximum:	4.6000	8.0000	7.0000	8.4000
Minimum:	-4.0000	-43.200	-6.6000	-18.000

Number of data:	30400.	30400.	47250.	47250.
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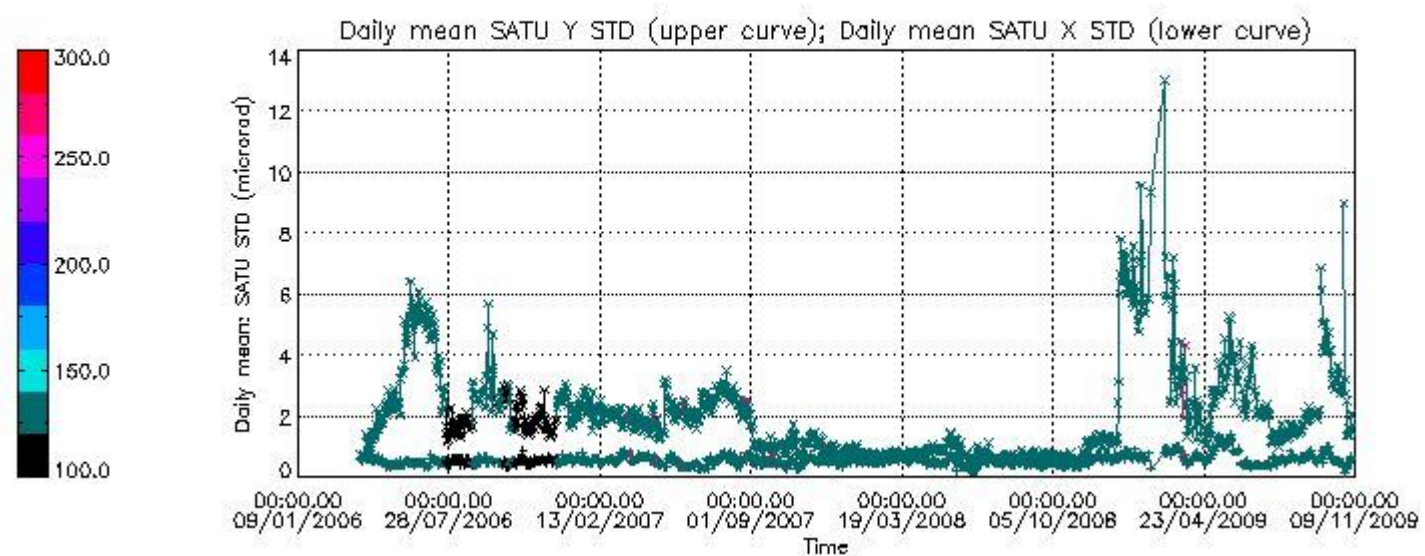
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

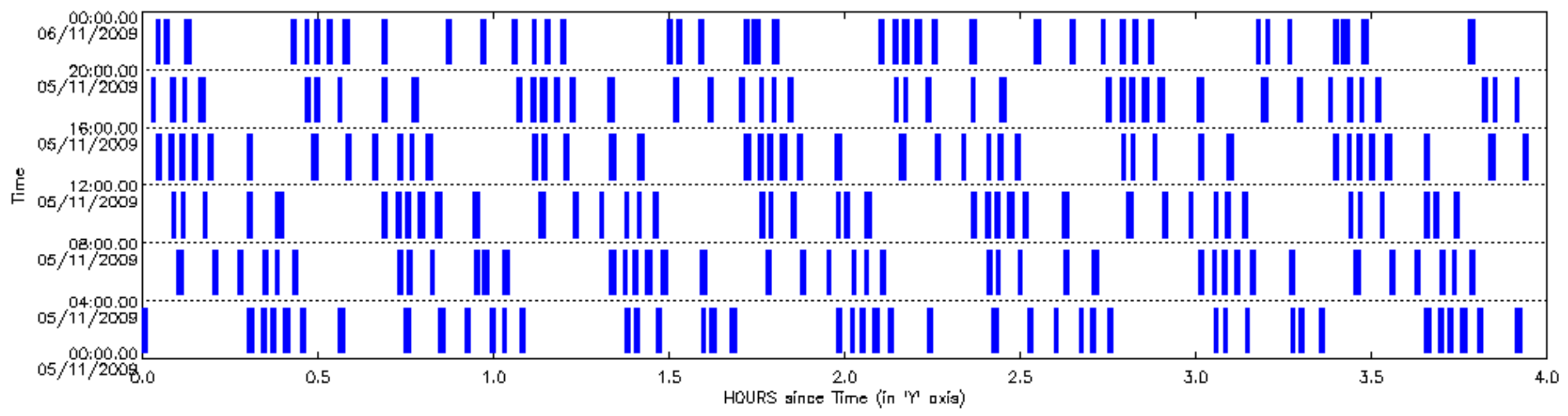
Lower curve: STD of SATU X axis

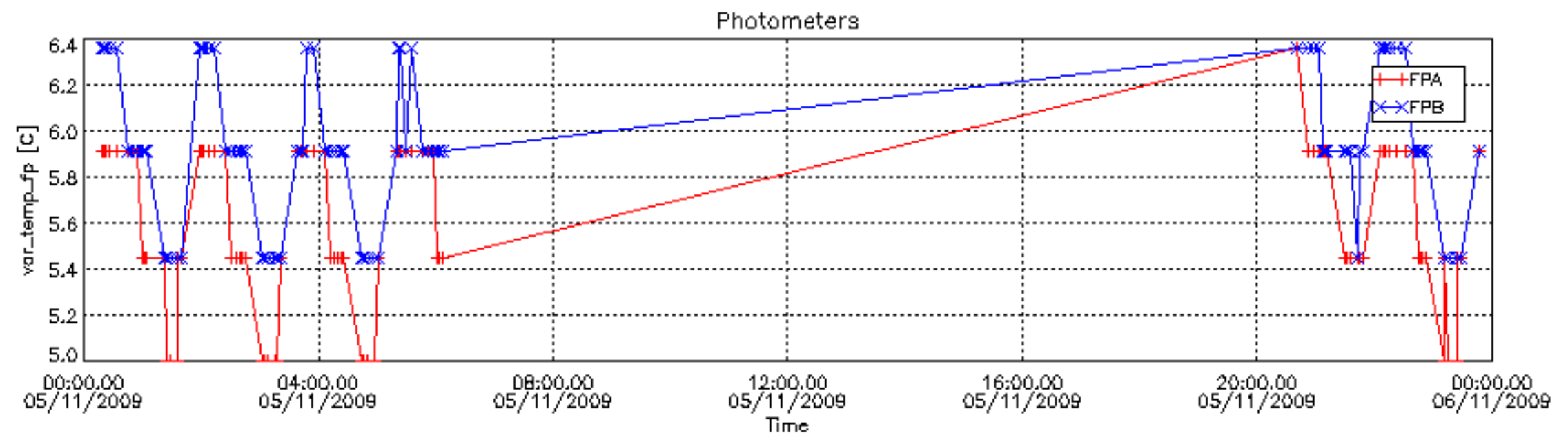
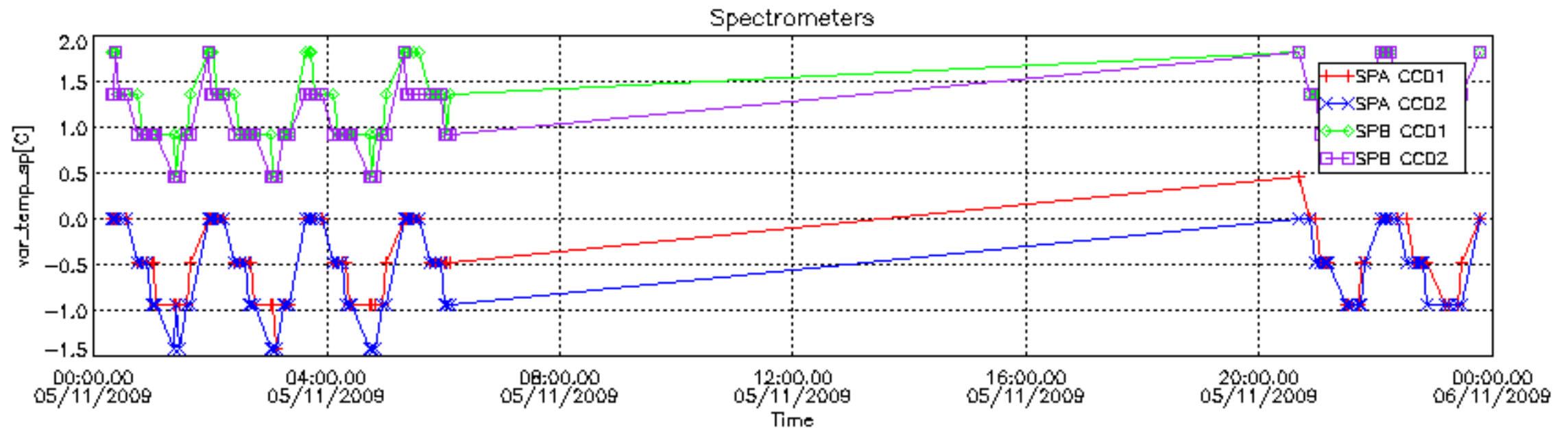


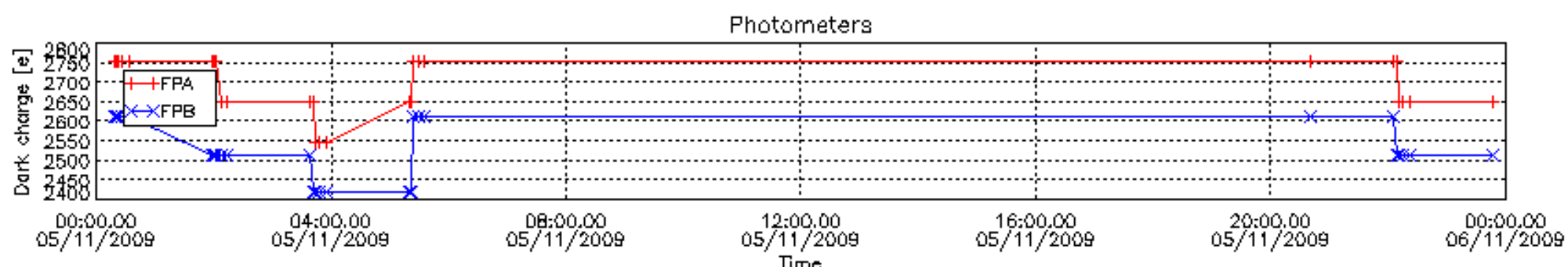
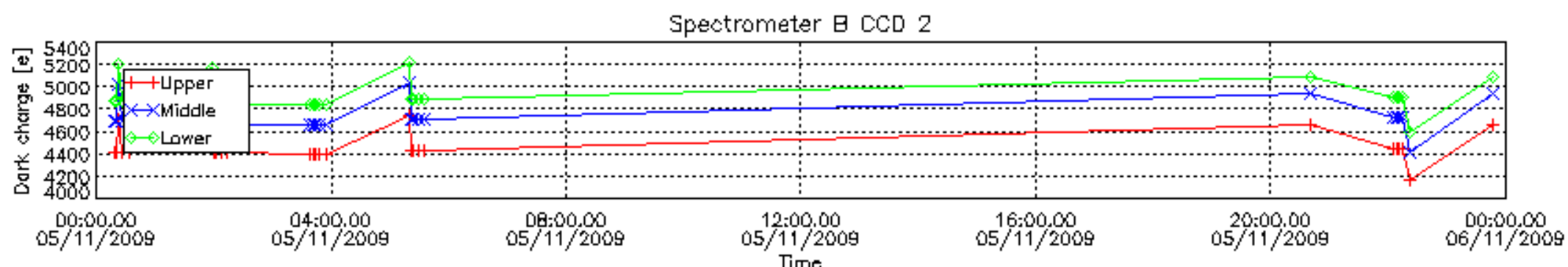
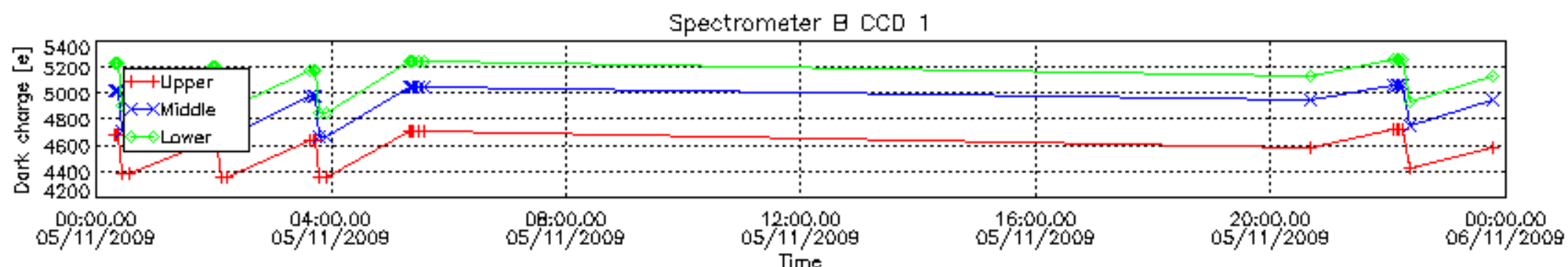
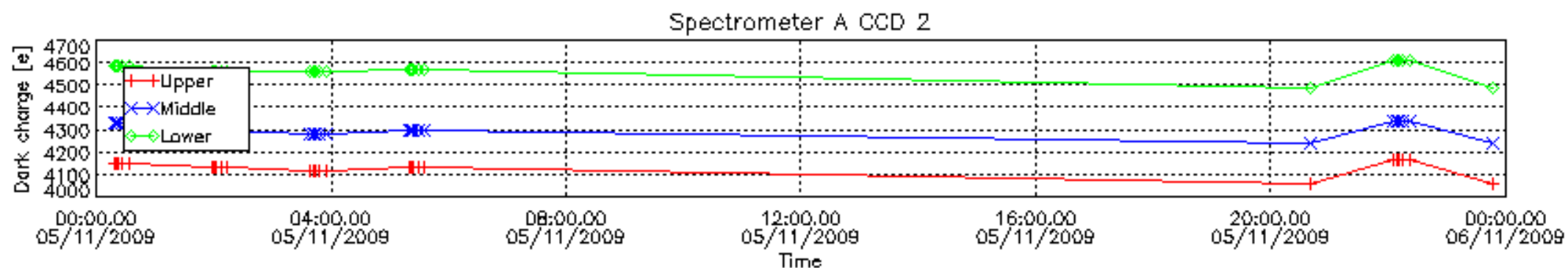
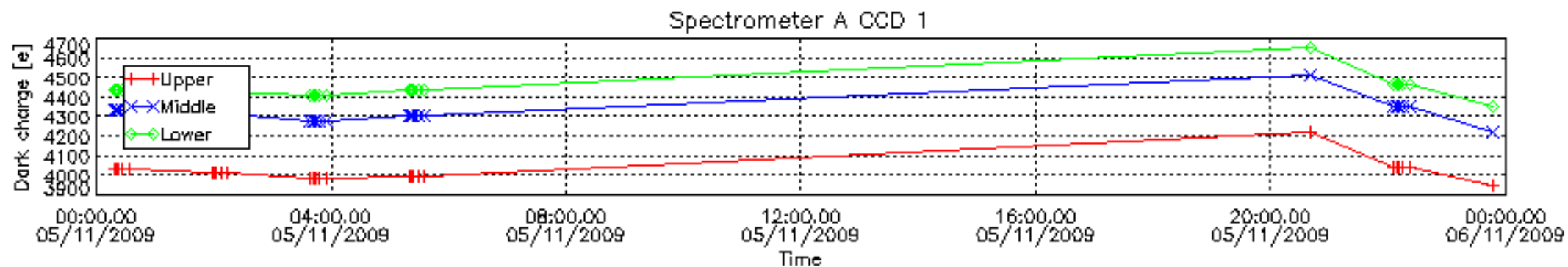
8. Auxiliary Data Files used for the production reported in section 2.4

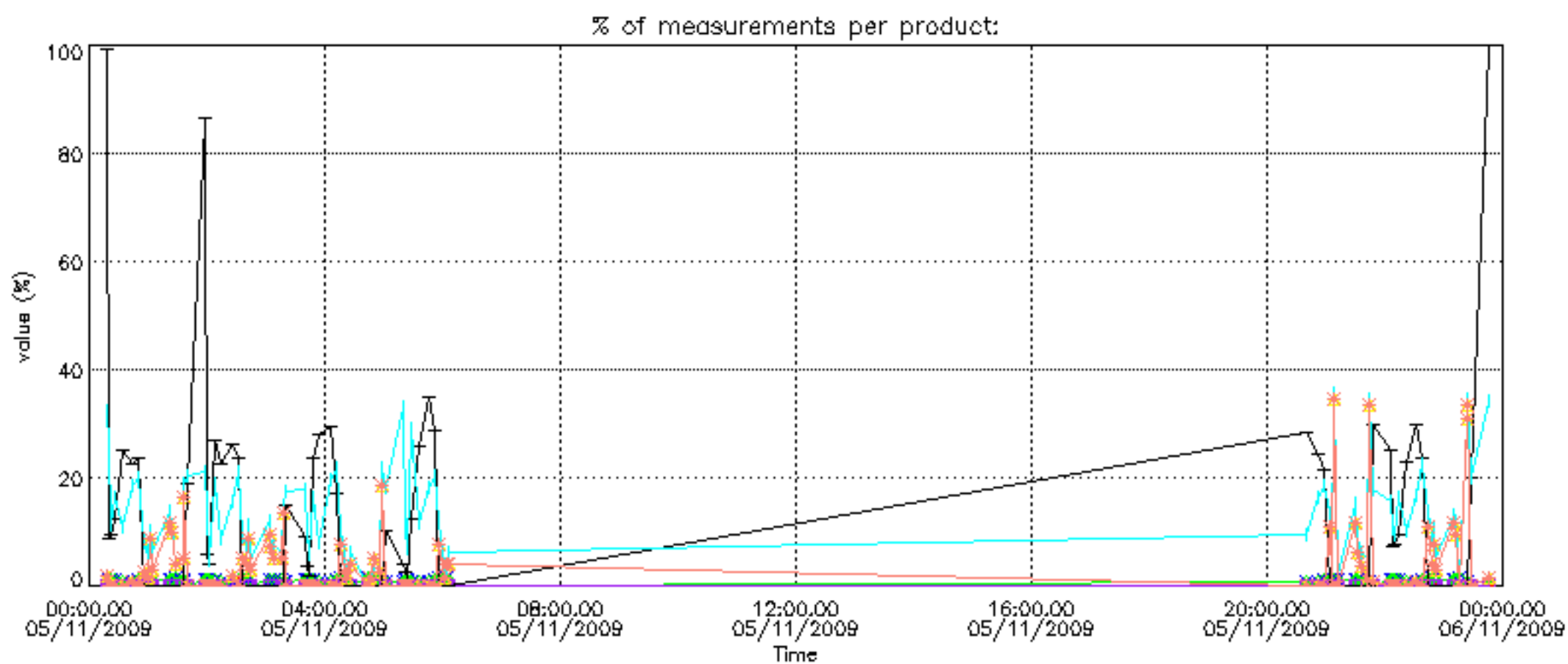
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-NOV-2009 00:17:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	1	05-NOV-2009 00:17:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-NOV-2009 00:17:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-NOV-2009 00:17:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-NOV-2009 00:17:54
ECMWF_FILE	AUX_ECF_AXNECM20091104_064114_20091104_210000_20091105_090000	1	05-NOV-2009 00:17:54
ECMWF_FILE	AUX_ECF_AXNECM20091104_182113_20091105_030000_20091105_150000	29	05-NOV-2009 03:03:04
ECMWF_FILE	AUX_ECA_AXNECM20091105_062112_20091104_210000_20091105_090000	46	05-NOV-2009 04:43:40
ECMWF_FILE	AUX_ECF_AXNECM20091105_064111_20091105_150000_20091106_030000	63	05-NOV-2009 20:40:47
ECMWF_FILE	AUX_ECF_AXNECM20091105_064112_20091105_210000_20091106_090000	76	05-NOV-2009 22:05:53
OPTIONAL_ECMWF_FILE	MISSING	1	05-NOV-2009 00:17:54
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091104_010112_20091103_194712_20091113_211325	1	05-NOV-2009 00:17:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091105_013946_000041442084_00031_40165_9105.N1	18	05-NOV-2009 01:58:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091105_025409_000057382084_00032_40166_9106.N1	29	05-NOV-2009 03:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091105_043506_000057382084_00033_40167_9107.N1	46	05-NOV-2009 04:43:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091105_203647_000041442084_00043_40177_9108.N1	63	05-NOV-2009 20:40:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091105_214551_000060572084_00043_40177_9109.N1	76	05-NOV-2009 22:05:53
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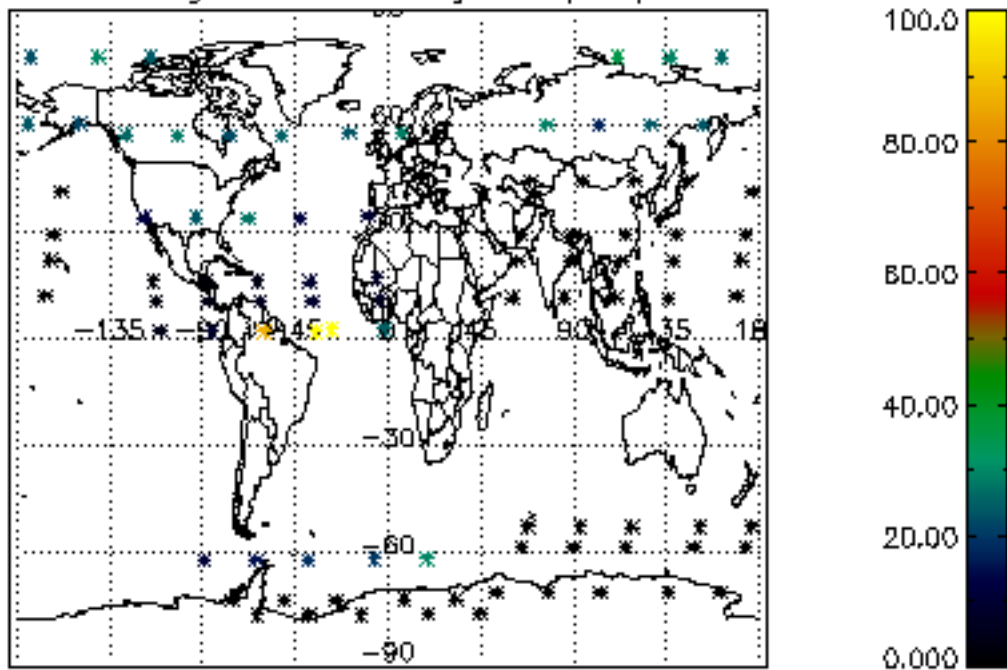




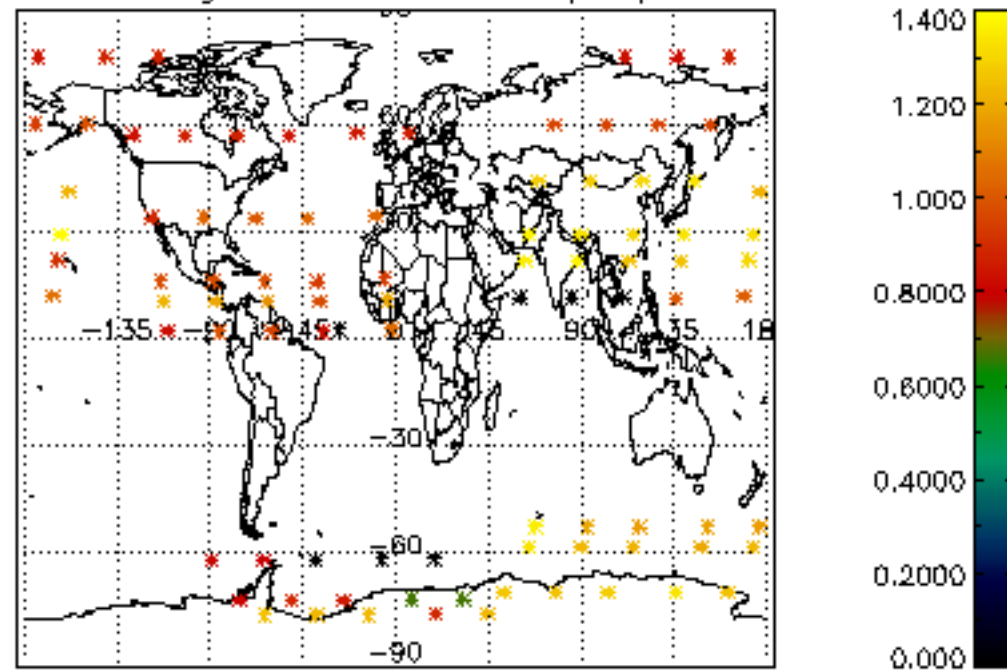




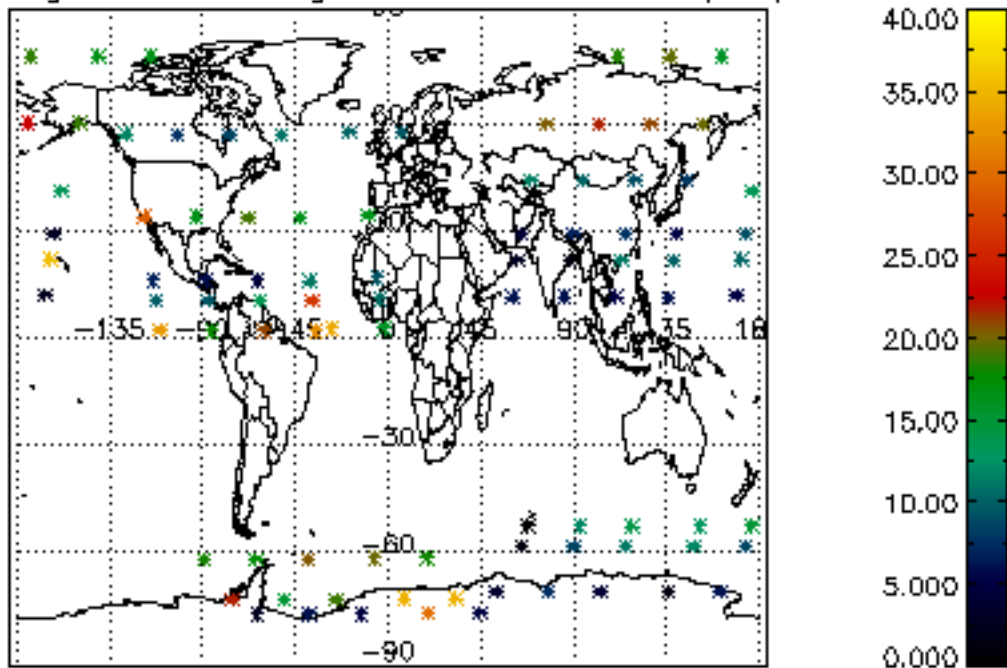
Percentage of cosmic ray hits per profile



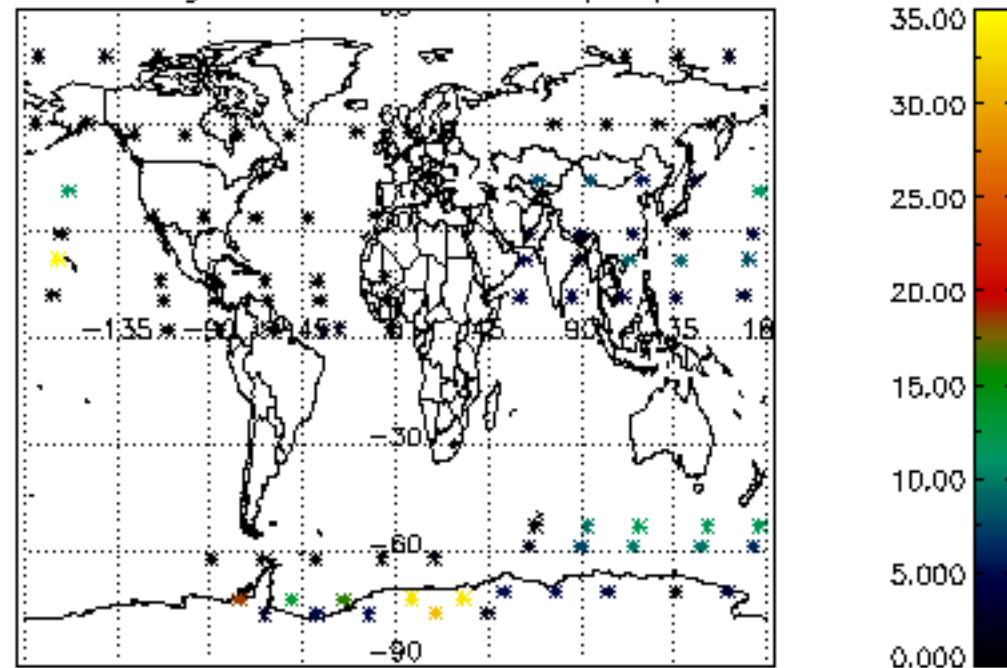
Percentage of datation errors per profile



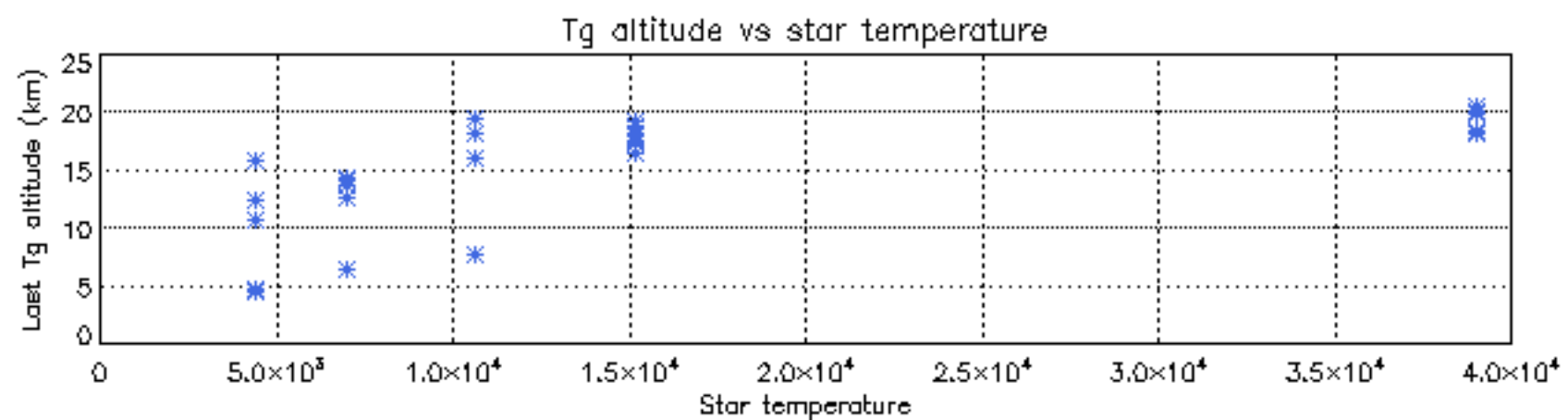
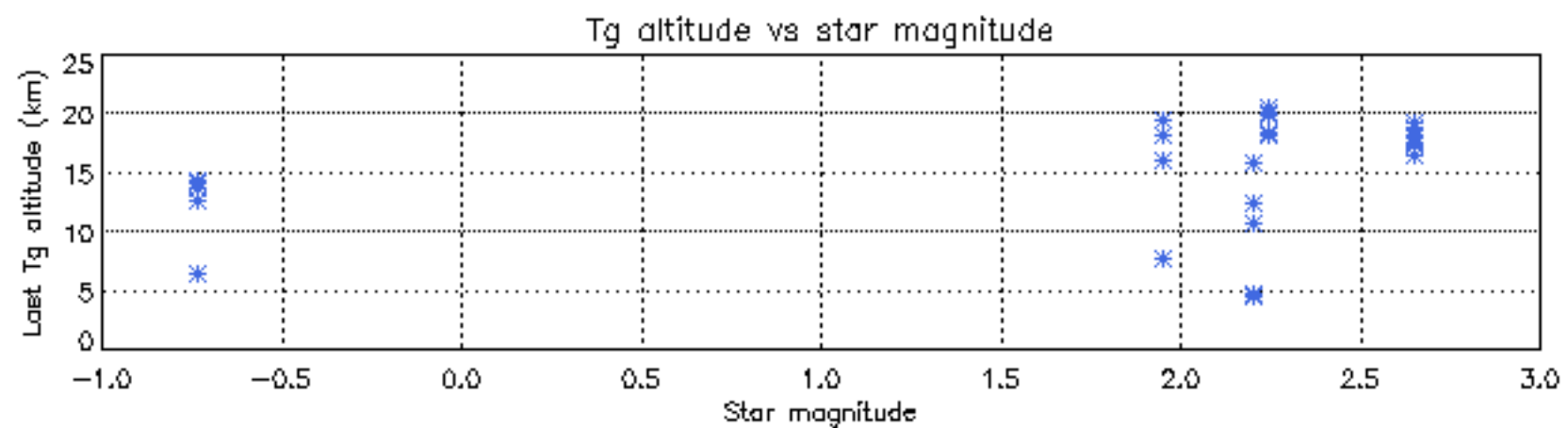
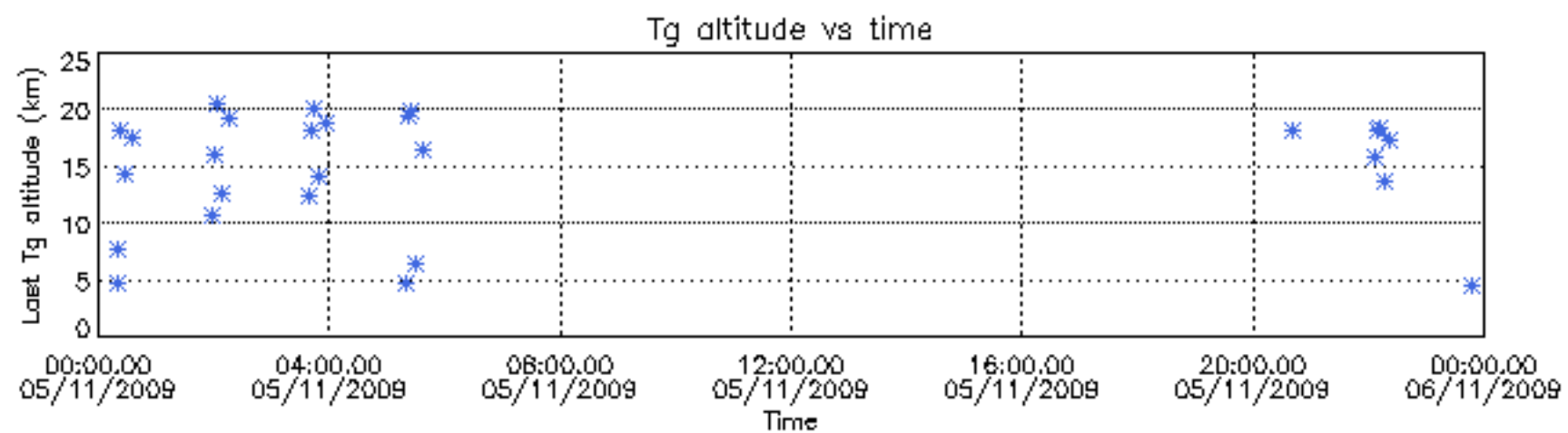
Percentage of star falling outside central band per profile



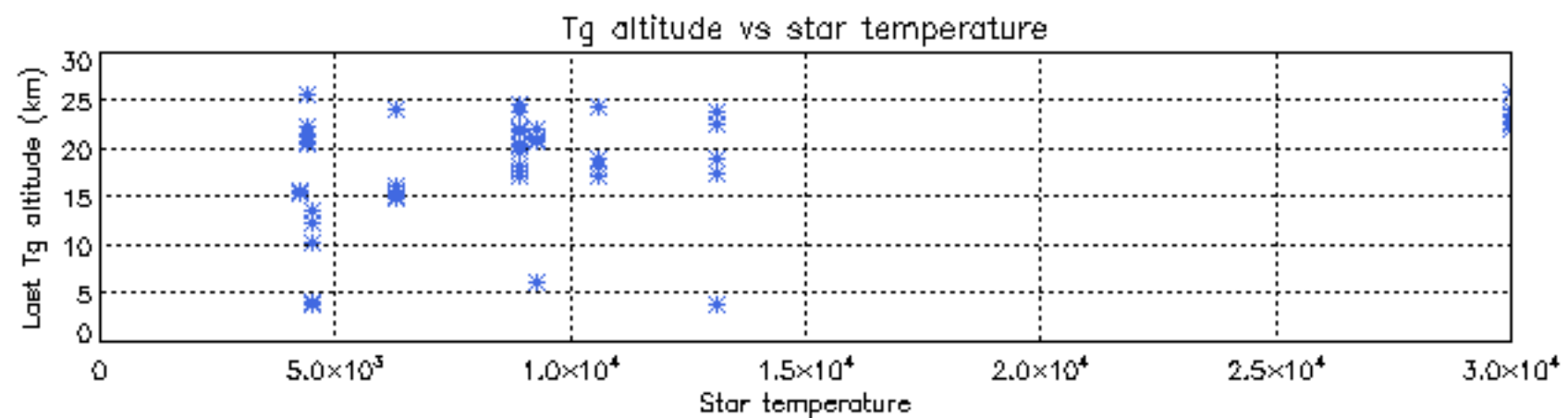
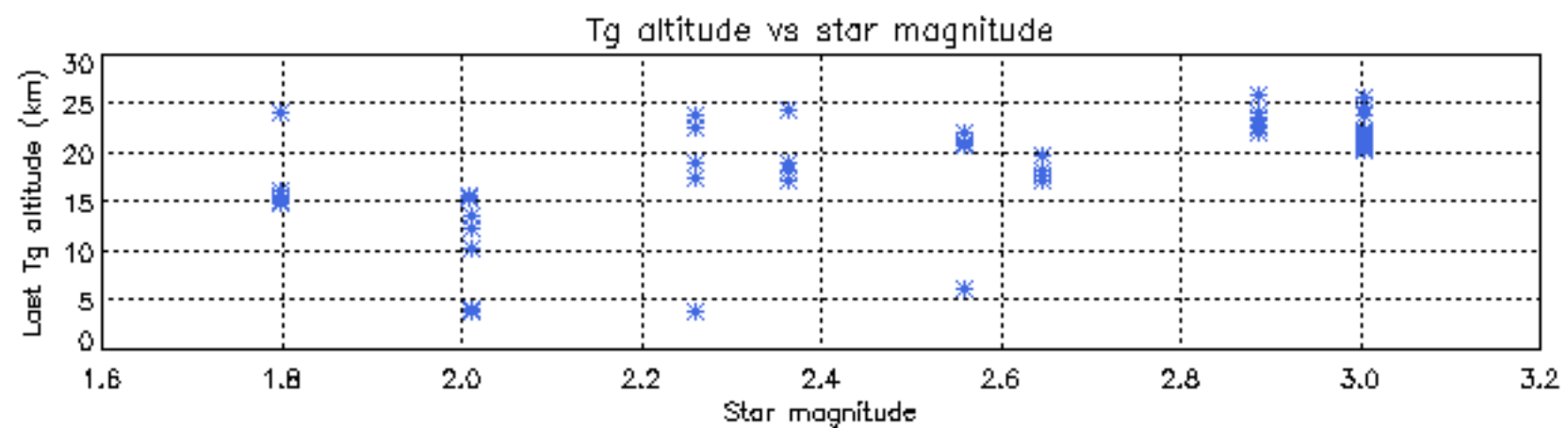
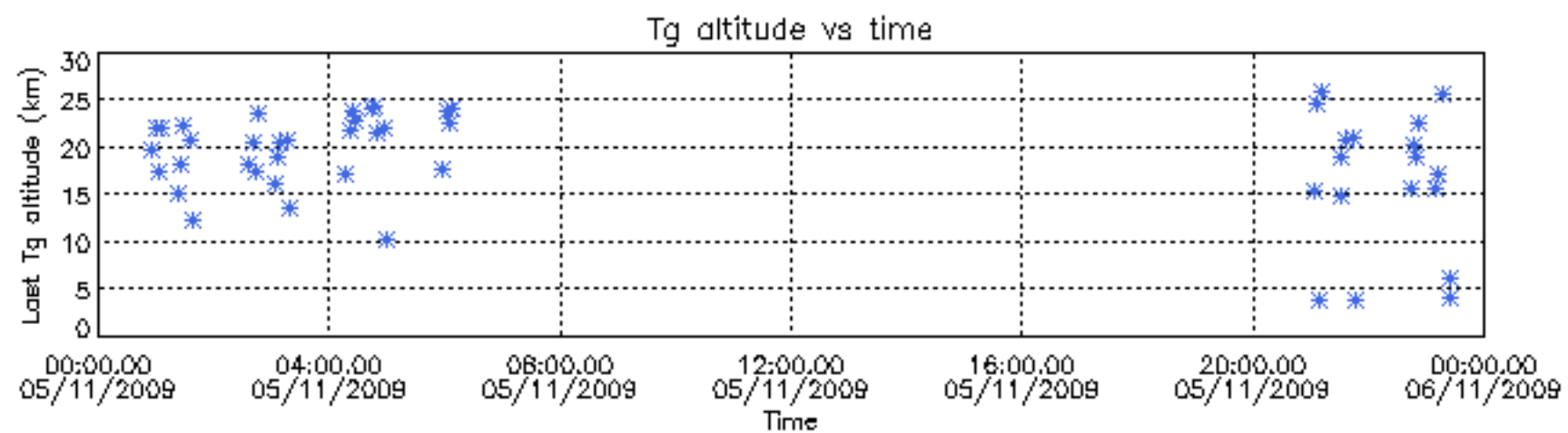
Percentage of saturation errors per profile

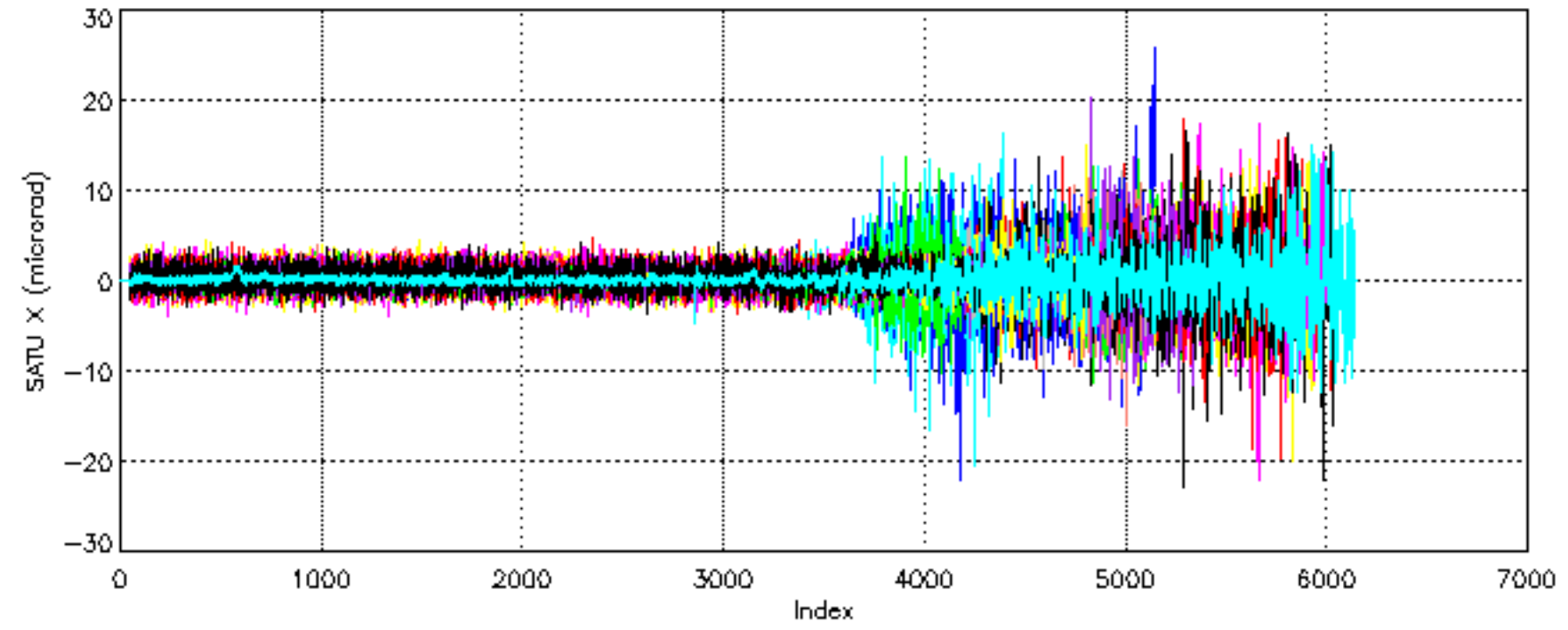


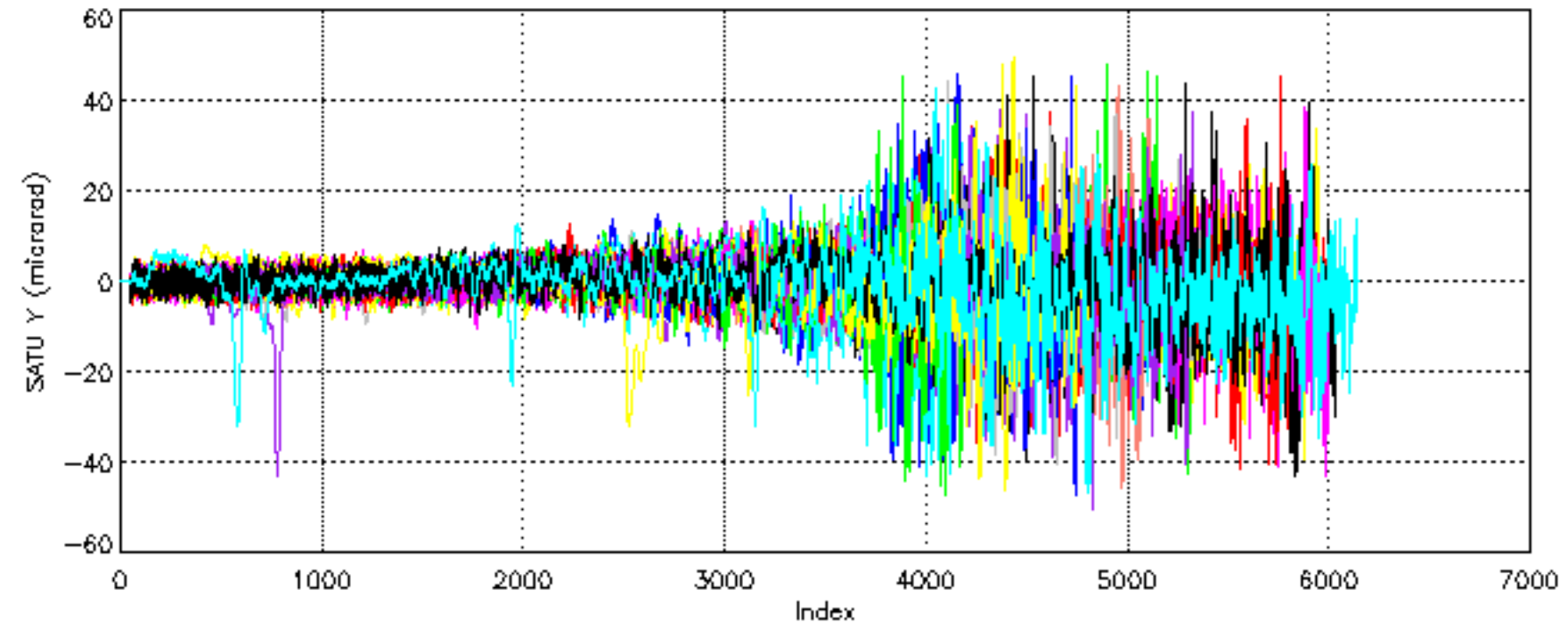
Tangent altitude at which the star is lost

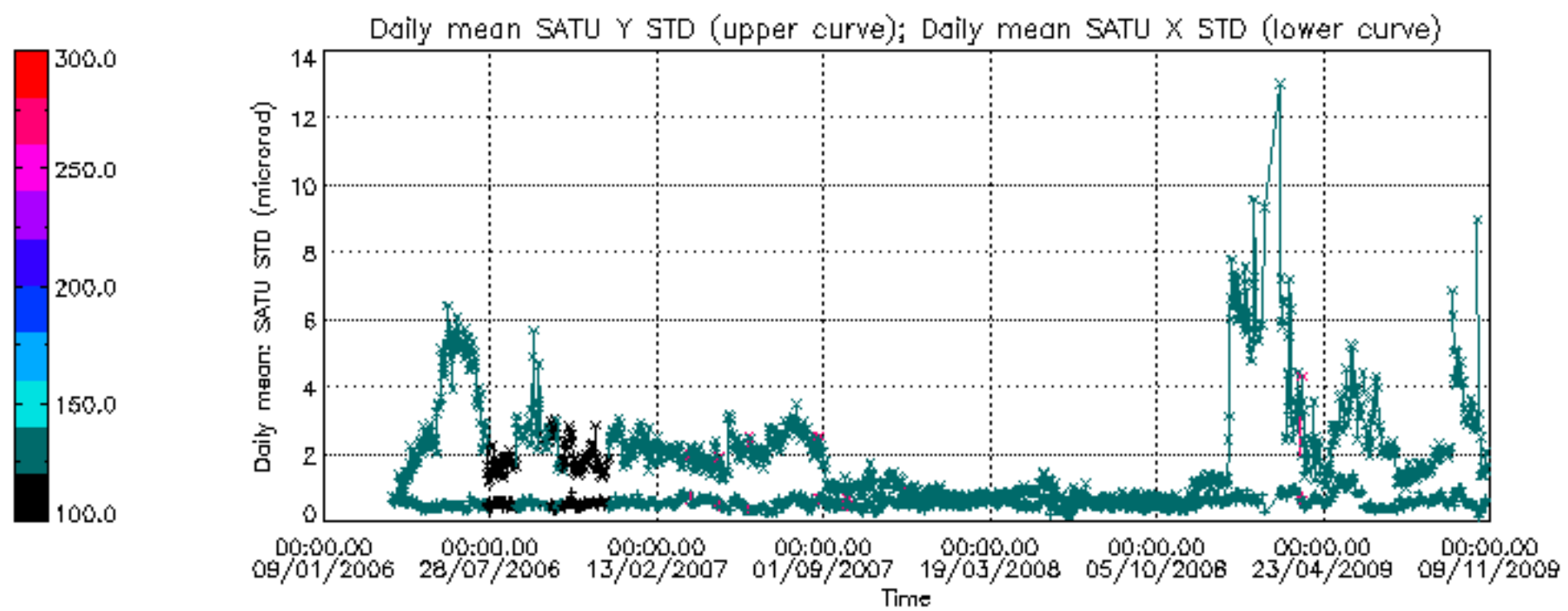


Tangent altitude at which the star is lost









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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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 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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 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
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 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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 4; -1325.3; 01-NOV-2009 05:22:57; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;40110
 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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 8; 200.7; 01-NOV-2009 05:48:23; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40111
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 14; 2538.0; 01-NOV-2009 06:27:21; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 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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4; 2535.2; 01-NOV-2009 21:32:41; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40120
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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3; 360.3; 01-NOV-2009 22:37:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40121
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 16; 6443.8; 05-NOV-2009 12:08:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40171
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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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 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
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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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 2; 1634.2; 05-NOV-2009 17:30:36; Dark ; 59.0; 165; 34Gam Eri ; 2.95; 3200;occ; 118; 0;40175
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16; 6447.6; 05-NOV-2009 18:50:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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8; 2643.8; 06-NOV-2009 02:10:25; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40180
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4;-1342.4; 06-NOV-2009 04:25:11; Bright; 49.5; 96; 68Del Leo ; 2.56; 9300;occ; 99; 0;40181
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5; 2632.2; 11-NOV-2009 11:16:20; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;40257
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9; 3991.0; 11-NOV-2009 11:38:59; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;40257
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6; 2807.4; 17-NOV-2009 08:09:33; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;40341
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 13; 4341.6; 24-NOV-2009 18:18:34; Bright; 46.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 93; 0;40447
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 17; 5489.4; 24-NOV-2009 18:37:42; Dark ; 47.5; 171; 2Eps Crv ; 3.00; 4250;occ; 95; 0;40447
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 19; 6367.2; 24-NOV-2009 18:52:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40447
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 23; 6793.9; 24-NOV-2009 18:59:27; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;40447

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 9; 1650.5; 25-NOV-2009 01:56:43; Dark ; 48.0; 165; 34Gam Eri ; 2.95; 3200;occ; 96; 0;40452
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 4;-1694.0; 25-NOV-2009 04:22:10; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40453
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13; 620.0; 25-NOV-2009 05:00:44; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;40454
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