

GOMOS Daily Report 13-JUN-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	16JUN2009 04:36:27
Data source version	GOMOS/5.00
Start time of products	13JUN2009 00:07:59
Stop time of products	13JUN2009 06:24:27
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

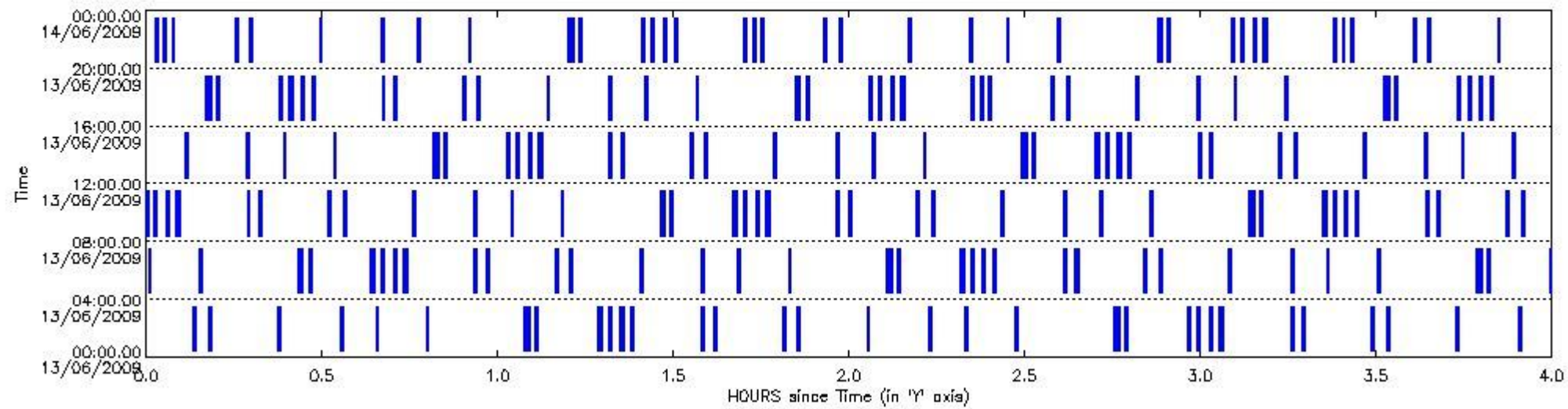
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

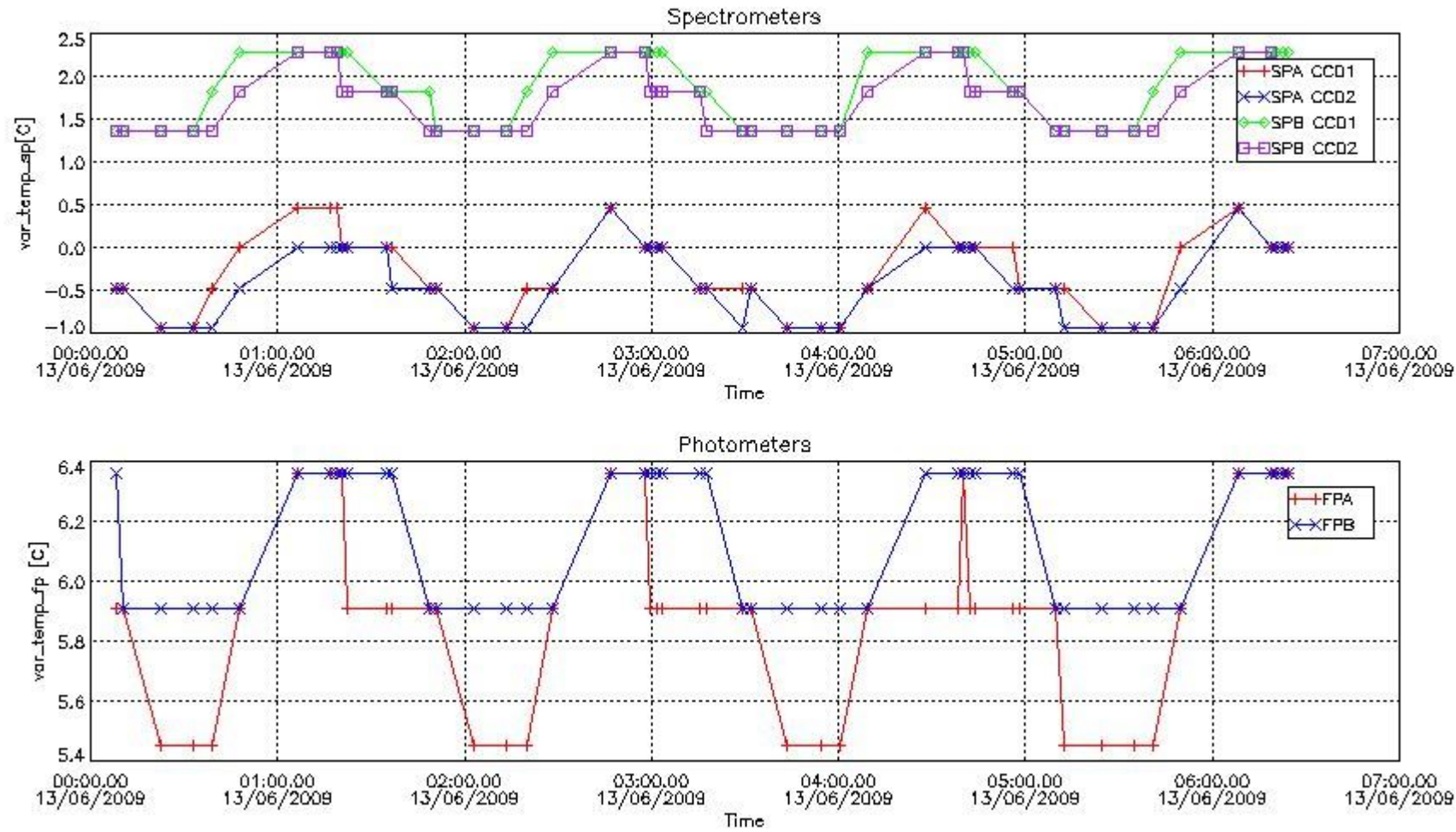
No missing products.

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_1PNPDE20090613_000759_000000332079_00460_38089_6747.N1	13-JUN-2009 00:07:59	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	38089	No
2	GOM_TRA_1PNPDE20090613_001033_000000332079_00460_38089_6748.N1	13-JUN-2009 00:10:33	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	38089	No
3	GOM_TRA_1PNPDE20090613_002225_000000302079_00460_38089_6749.N1	13-JUN-2009 00:22:25	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38089	No
4	GOM_TRA_1PNPDE20090613_003301_000000312079_00460_38089_6750.N1	13-JUN-2009 00:33:01	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38089	No
5	GOM_TRA_1PNPDE20090613_003912_000000262079_00460_38089_6751.N1	13-JUN-2009 00:39:12	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38089	No
6	GOM_TRA_1PNPDE20090613_004749_000000252079_00460_38089_6752.N1	13-JUN-2009 00:47:49	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38089	No
7	GOM_TRA_1PNPDE20090613_010625_000000322079_00460_38089_6878.N1	13-JUN-2009 01:06:25	Dark	32.000	52	16Bet Cet	2.0370	4500.0	64	38089	No
8	GOM_TRA_1PNPDE20090613_011703_000000462079_00461_38090_6879.N1	13-JUN-2009 01:17:03	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	38090	No
9	GOM_TRA_1PNPDE20090613_011851_000000342079_00461_38090_6880.N1	13-JUN-2009 01:18:51	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38090	No
10	GOM_TRA_1PNPDE20090613_012054_000000352079_00461_38090_6881.N1	13-JUN-2009 01:20:54	Dark	34.500	31	Alp Gru	1.7340	15200.0	69	38090	No
11	GOM_TRA_1PNPDE20090613_012235_000000432079_00461_38090_6882.N1	13-JUN-2009 01:22:35	Straylight	42.500	172	Gam Gru	3.0030	13100.0	85	38090	No
12	GOM_TRA_1PNPDE20090613_013447_000000302079_00461_38090_6883.N1	13-JUN-2009 01:34:47	Twilight	30.000	38	20Eps Sgr	1.8360	11000.0	60	38090	No

13	GOM_TRA_1PNPDE20090613_013645_000000362079_00461_38090_6884.N1	13-JUN-2009 01:36:45	Twilight	35.500	57	34Sig Sgr	2.0660	26000.	71	38090	No
14	GOM_TRA_1PNPDE20090613_014834_000000332079_00461_38090_6885.N1	13-JUN-2009 01:48:34	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	38090	No
15	GOM_TRA_1PNPDE20090613_015109_000000332079_00461_38090_6886.N1	13-JUN-2009 01:51:09	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	38090	No
16	GOM_TRA_1PNPDE20090613_020301_000000302079_00461_38090_6887.N1	13-JUN-2009 02:03:01	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38090	No
17	GOM_TRA_1PNPDE20090613_021336_000000322079_00461_38090_6888.N1	13-JUN-2009 02:13:36	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38090	No
18	GOM_TRA_1PNPDE20090613_021948_000000262079_00461_38090_6889.N1	13-JUN-2009 02:19:48	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38090	No
19	GOM_TRA_1PNPDE20090613_022825_000000252079_00461_38090_7010.N1	13-JUN-2009 02:28:25	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38090	No
20	GOM_TRA_1PNPDE20090613_024701_000000322079_00461_38090_7011.N1	13-JUN-2009 02:47:01	Dark	32.000	52	16Bet Cet	2.0370	4500.0	64	38090	No
21	GOM_TRA_1PNPDE20090613_025741_000000462079_00462_38091_7012.N1	13-JUN-2009 02:57:41	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	38091	No
22	GOM_TRA_1PNPDE20090613_025928_000000342079_00462_38091_7013.N1	13-JUN-2009 02:59:28	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38091	No
23	GOM_TRA_1PNPDE20090613_030130_000000352079_00462_38091_7014.N1	13-JUN-2009 03:01:30	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38091	No
24	GOM_TRA_1PNPDE20090613_030312_000000432079_00462_38091_7015.N1	13-JUN-2009 03:03:12	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38091	No
25	GOM_TRA_1PNPDE20090613_031523_000000302079_00462_38091_7016.N1	13-JUN-2009 03:15:23	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38091	No
26	GOM_TRA_1PNPDE20090613_031722_000000352079_00462_38091_7017.N1	13-JUN-2009 03:17:22	Twilight	35.000	57	34Sig Sgr	2.0660	26000.	70	38091	No
27	GOM_TRA_1PNPDE20090613_032910_000000332079_00462_38091_7018.N1	13-JUN-2009 03:29:10	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	38091	No
28	GOM_TRA_1PNPDE20090613_033144_000000332079_00462_38091_7019.N1	13-JUN-2009 03:31:44	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	38091	No
29	GOM_TRA_1PNPDE20090613_034336_000000302079_00462_38091_7020.N1	13-JUN-2009 03:43:36	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38091	No
30	GOM_TRA_1PNPDE20090613_035411_000000312079_00462_38091_7021.N1	13-JUN-2009 03:54:11	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38091	No
31	GOM_TRA_1PNPDE20090613_040023_000000262079_00462_38091_7180.N1	13-JUN-2009 04:00:23	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38091	No
32	GOM_TRA_1PNPDE20090613_040901_000000252079_00462_38091_7181.N1	13-JUN-2009 04:09:01	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38091	No
33	GOM_TRA_1PNPDE20090613_042739_000000322079_00462_38091_7182.N1	13-JUN-2009 04:27:39	Dark	32.000	52	16Bet Cet	2.0370	4500.0	64	38091	No
34	GOM_TRA_1PNPDE20090613_043818_000000462079_00463_38092_7183.N1	13-JUN-2009 04:38:18	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	38092	No
35	GOM_TRA_1PNPDE20090613_044005_000000342079_00463_38092_7184.N1	13-JUN-2009 04:40:05	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38092	No
36	GOM_TRA_1PNPDE20090613_044208_000000352079_00463_38092_7185.N1	13-JUN-2009 04:42:08	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38092	No
37	GOM_TRA_1PNPDE20090613_044349_000000432079_00463_38092_7186.N1	13-JUN-2009 04:43:49	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38092	No
38	GOM_TRA_1PNPDE20090613_045559_000000302079_00463_38092_7187.N1	13-JUN-2009 04:55:59	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38092	No
39	GOM_TRA_1PNPDE20090613_045759_000000362079_00463_38092_7188.N1	13-JUN-2009 04:57:59	Twilight	35.500	57	34Sig Sgr	2.0660	26000.	71	38092	No
40	GOM_TRA_1PNPDE20090613_050946_000000332079_00463_38092_7189.N1	13-JUN-2009 05:09:46	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	38092	No
41	GOM_TRA_1PNPDE20090613_051220_000000332079_00463_38092_7190.N1	13-JUN-2009 05:12:20	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	38092	No
42	GOM_TRA_1PNPDE20090613_052412_000000302079_00463_38092_7191.N1	13-JUN-2009 05:24:12	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38092	No
43	GOM_TRA_1PNPDE20090613_053446_000000312079_00463_38092_7192.N1	13-JUN-2009 05:34:46	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38092	No
44	GOM_TRA_1PNPDE20090613_054059_000000262079_00463_38092_7387.N1	13-JUN-2009 05:40:59	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38092	No
45	GOM_TRA_1PNPDE20090613_054937_000000252079_00463_38092_7388.N1	13-JUN-2009 05:49:37	Twilight	25.000	53	43Bet And	2.0480	3300.0	50	38092	No
46	GOM_TRA_1PNPDE20090613_060816_000000322079_00463_38092_7389.N1	13-JUN-2009 06:08:16	Dark	32.000	52	16Bet Cet	2.0370	4500.0	64	38092	No
47	GOM_TRA_1PNPDE20090613_061856_000000462079_00464_38093_7390.N1	13-JUN-2009 06:18:56	Dark	46.000	18	24Alp PsA	1.1660	9700.0	92	38093	No
48	GOM_TRA_1PNPDE20090613_062042_000000342079_00464_38093_7391.N1	13-JUN-2009 06:20:42	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38093	No
49	GOM_TRA_1PNPDE20090613_062245_000000352079_00464_38093_7392.N1	13-JUN-2009 06:22:45	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38093	No
50	GOM_TRA_1PNPDE20090613_062427_000000432079_00464_38093_7393.N1	13-JUN-2009 06:24:27	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38093	No

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



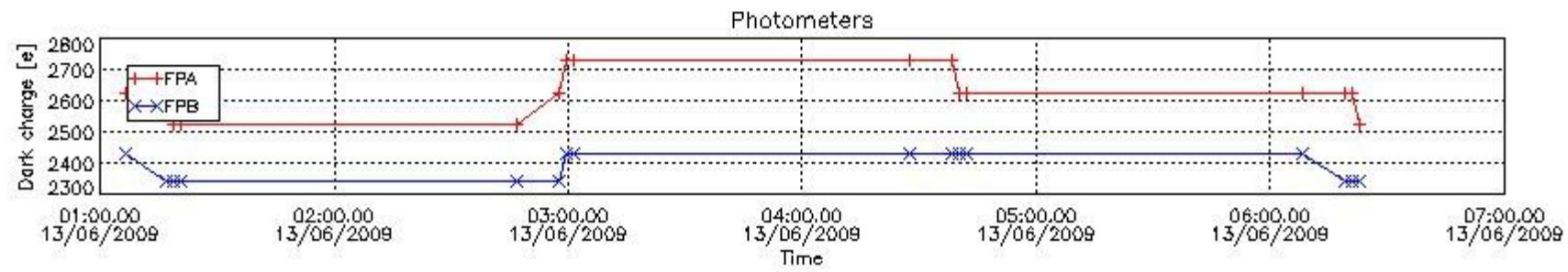
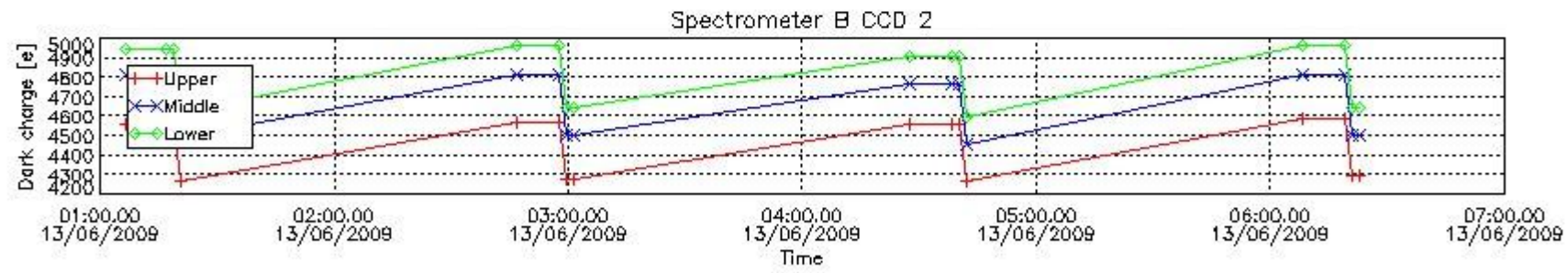
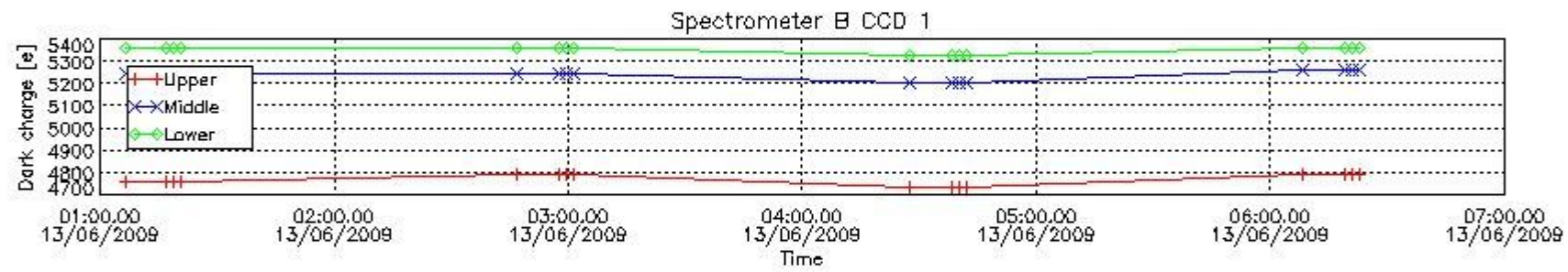
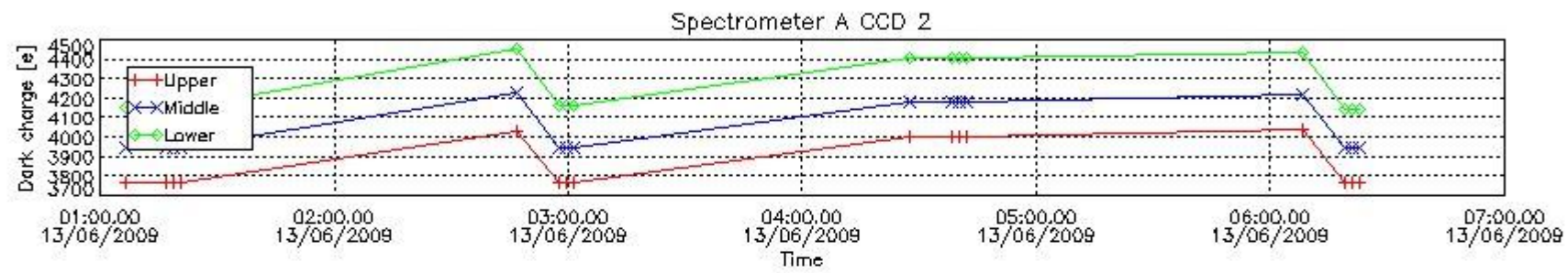
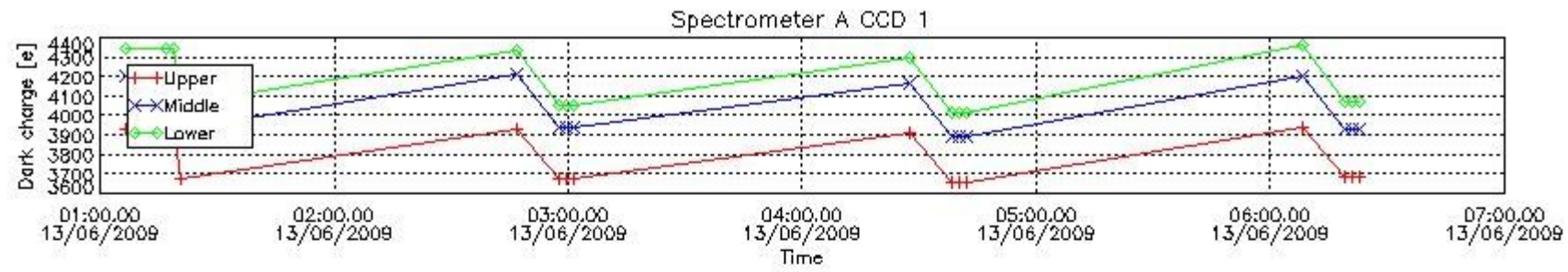
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



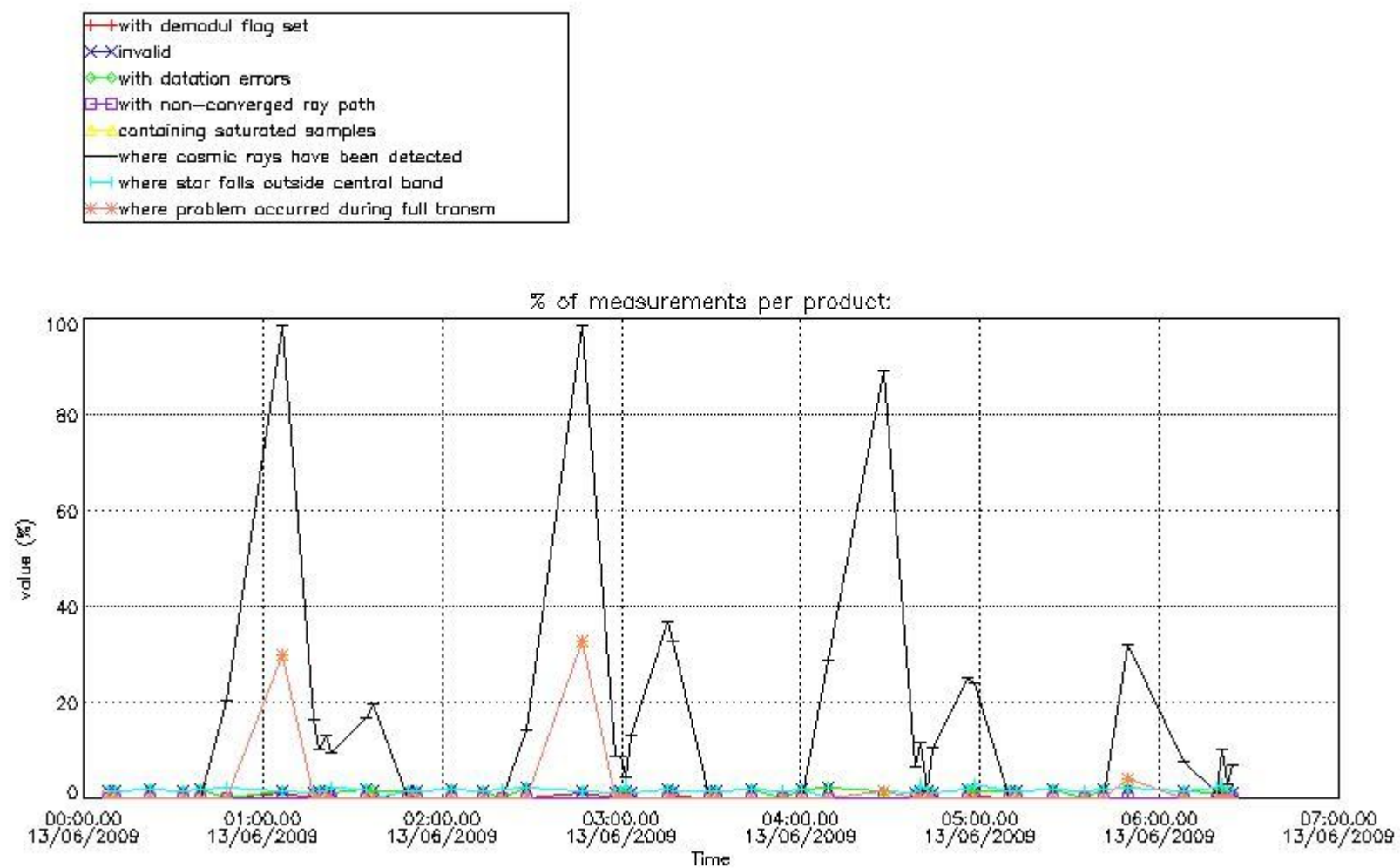
5. Demodulation flag and quality information monitoring

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.

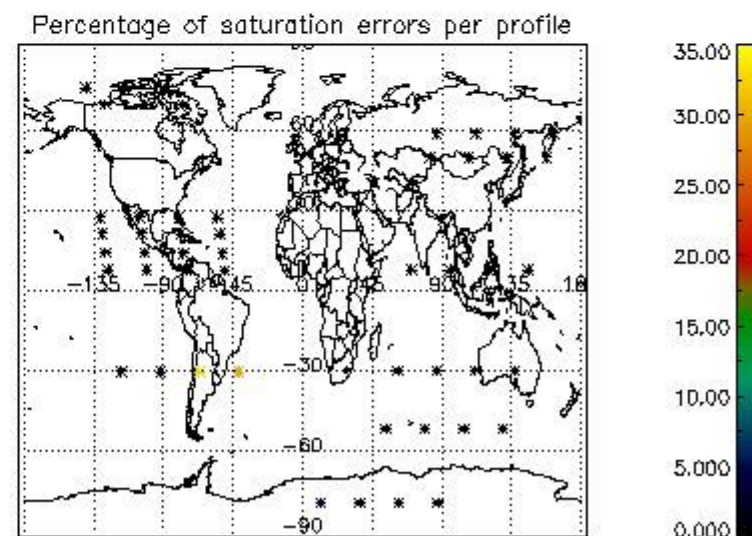
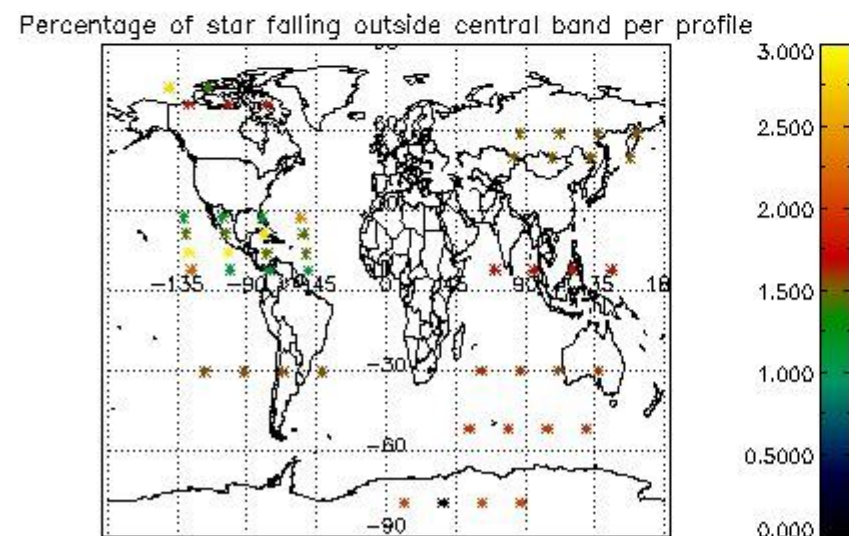
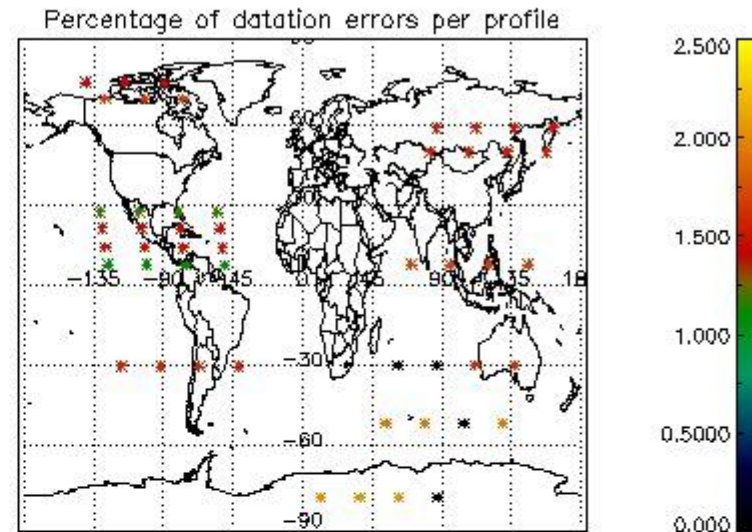
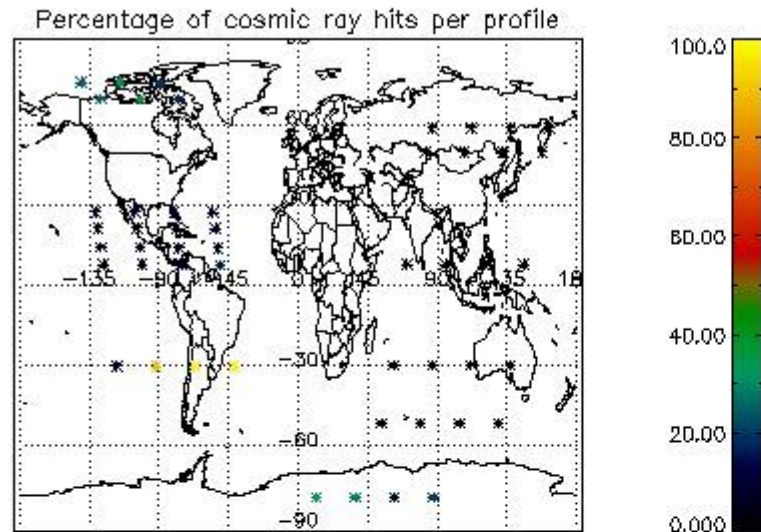
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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)



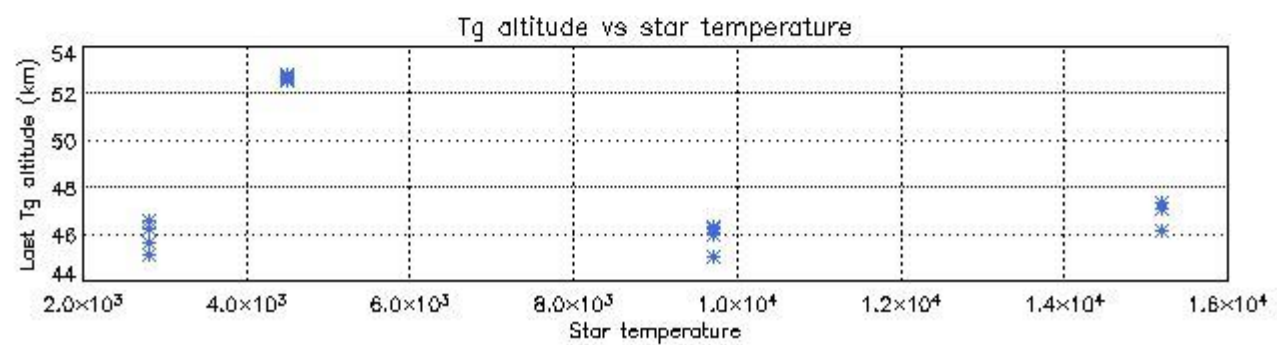
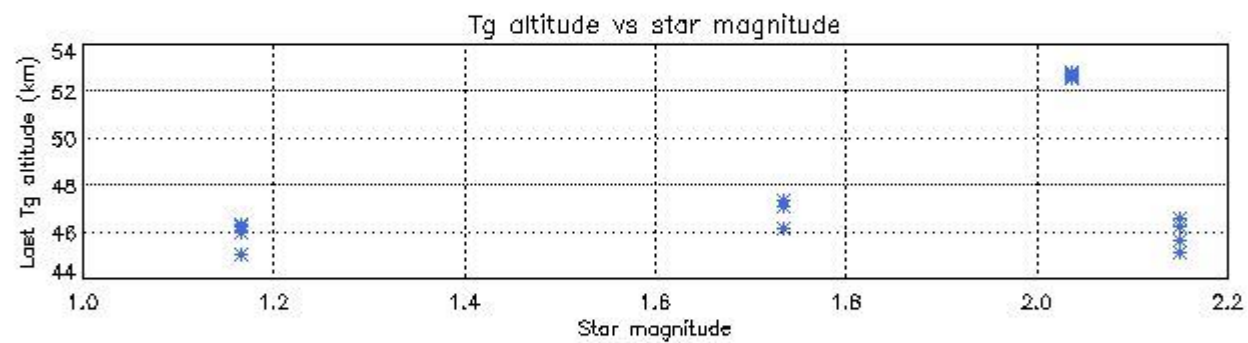
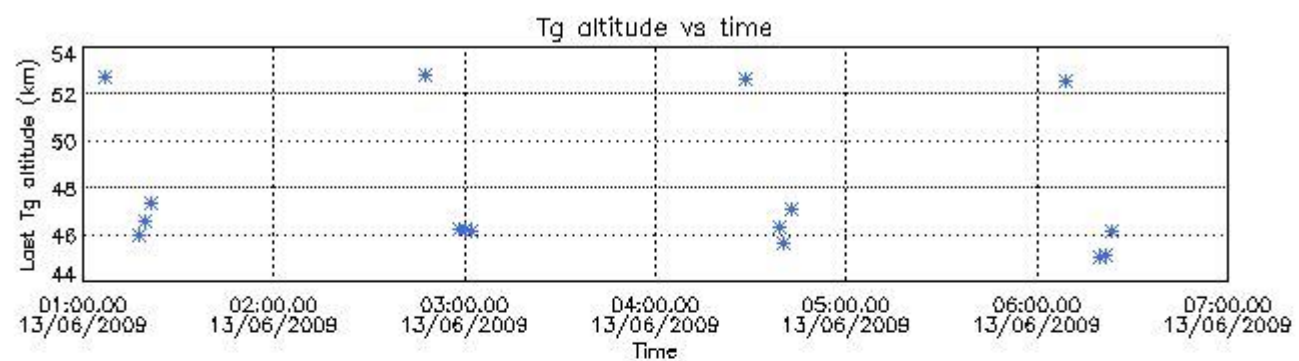
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	47.775	48.738	NaN
St. deviation:	2.9826	0.75557	NaN
Maximum:	52.838	49.843	NaN
Minimum:	44.988	47.249	NaN
Number of data:	16.000	12.000	NaN

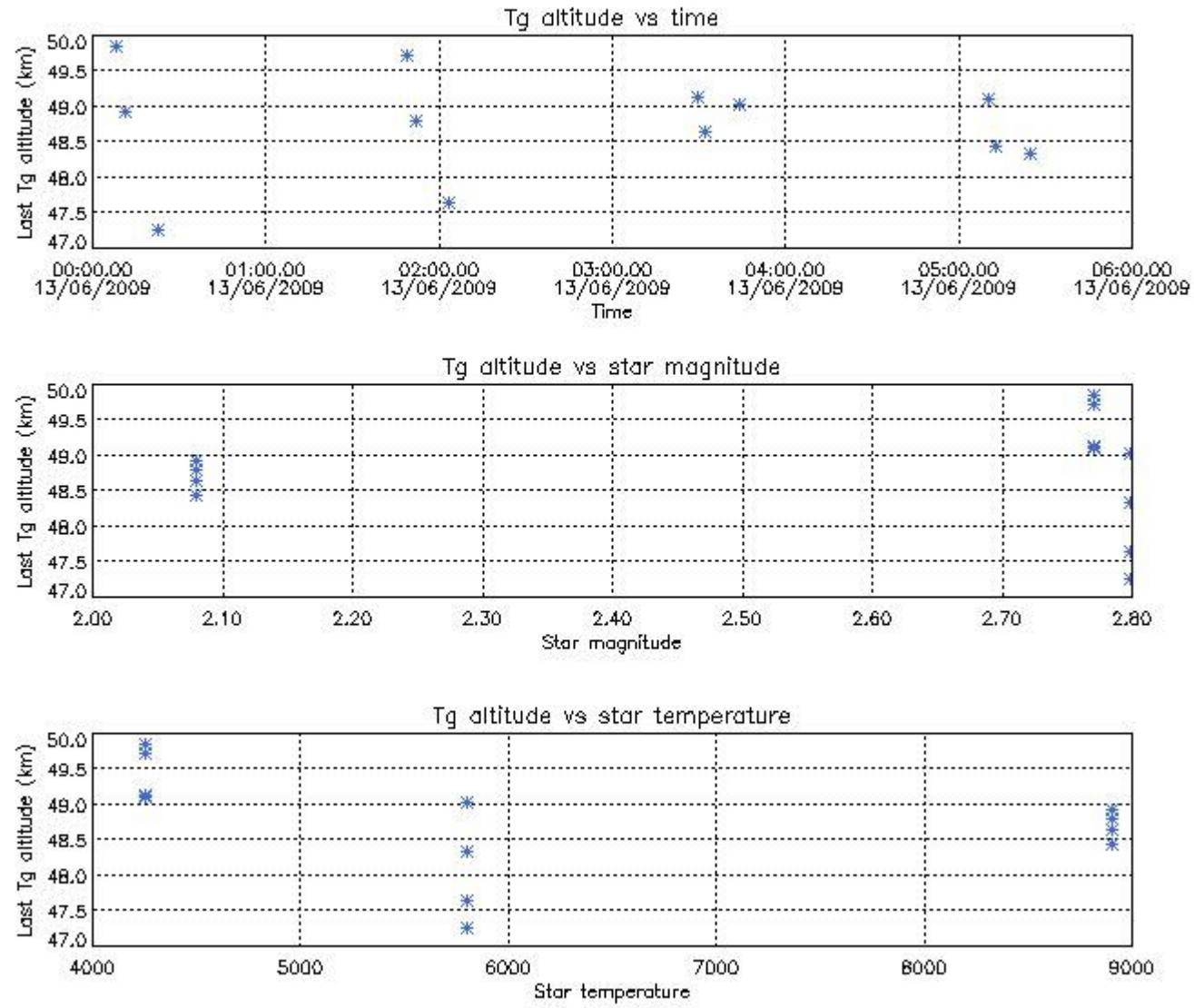
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

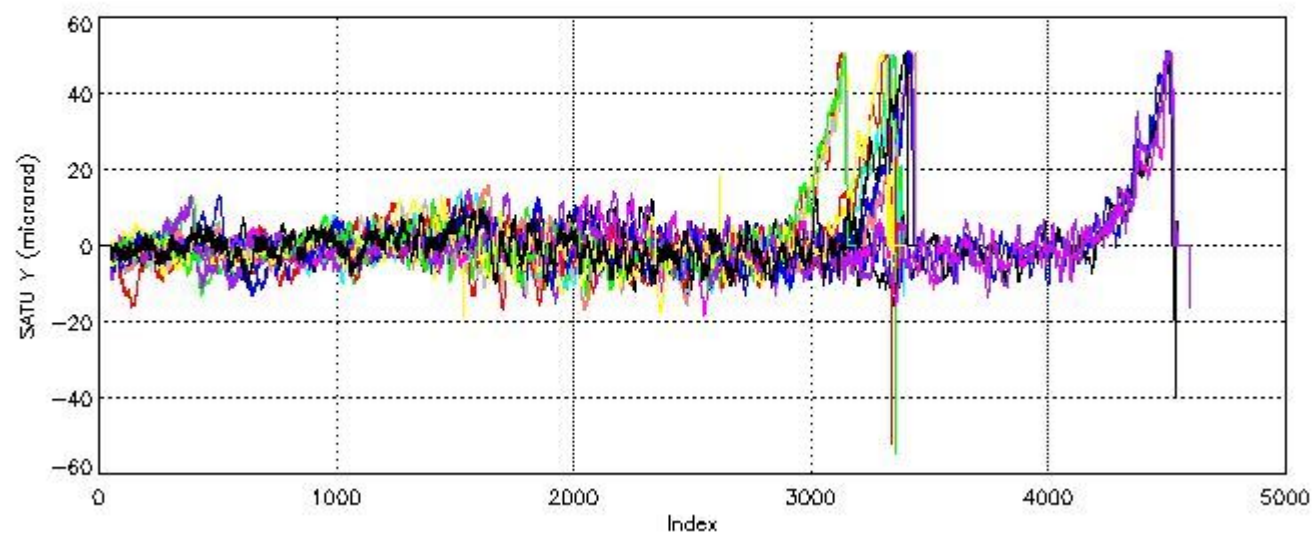
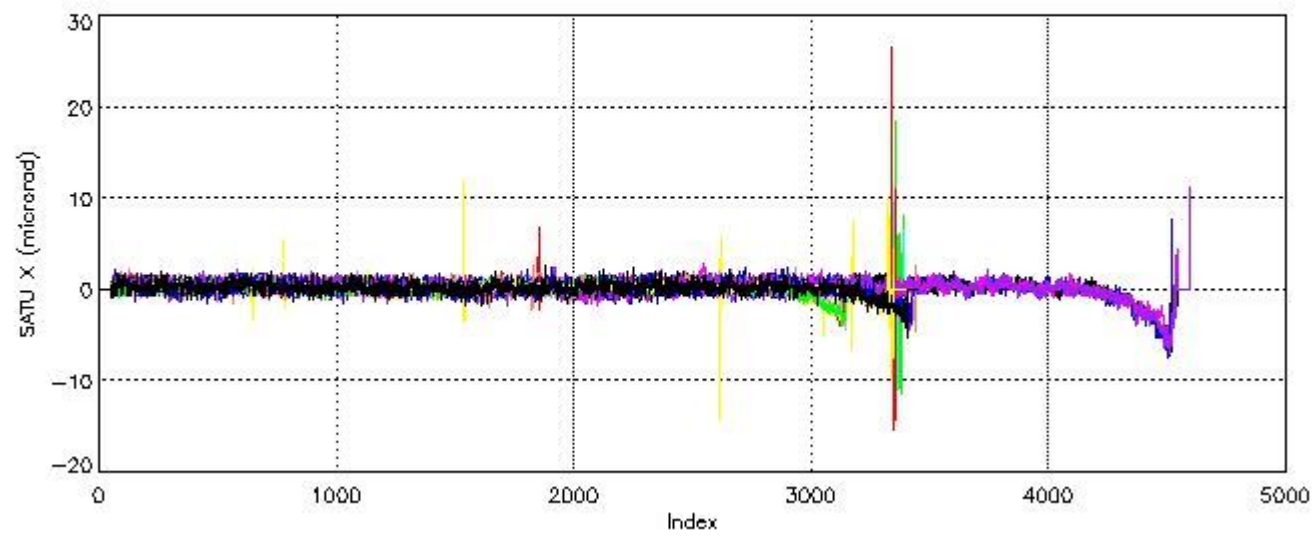


7. Star Acquisition and Tracking Unit (SATU)

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:	0.35637	-1.0970	0.34606	-0.89824
St. deviation:	0.39134	2.8947	0.78670	3.0213
Maximum:	5.5000	13.300	3.5000	10.500
Minimum:	-3.3000	-16.500	-2.8000	-12.600

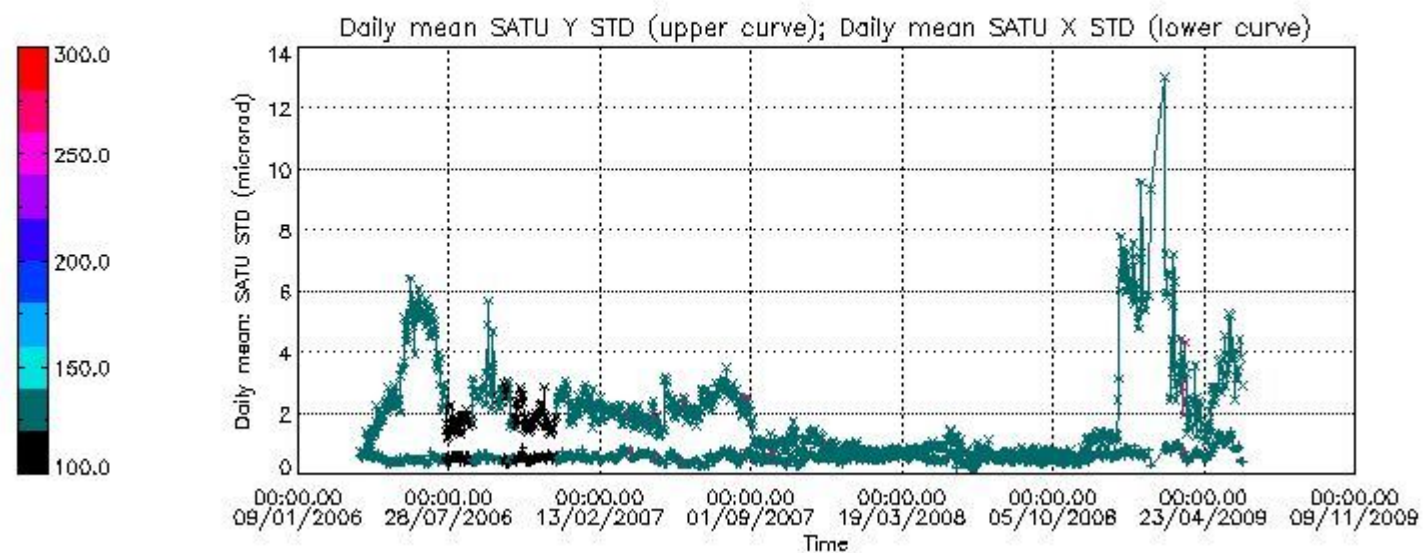
Number of data:	19650.	19650.	12300.	12300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

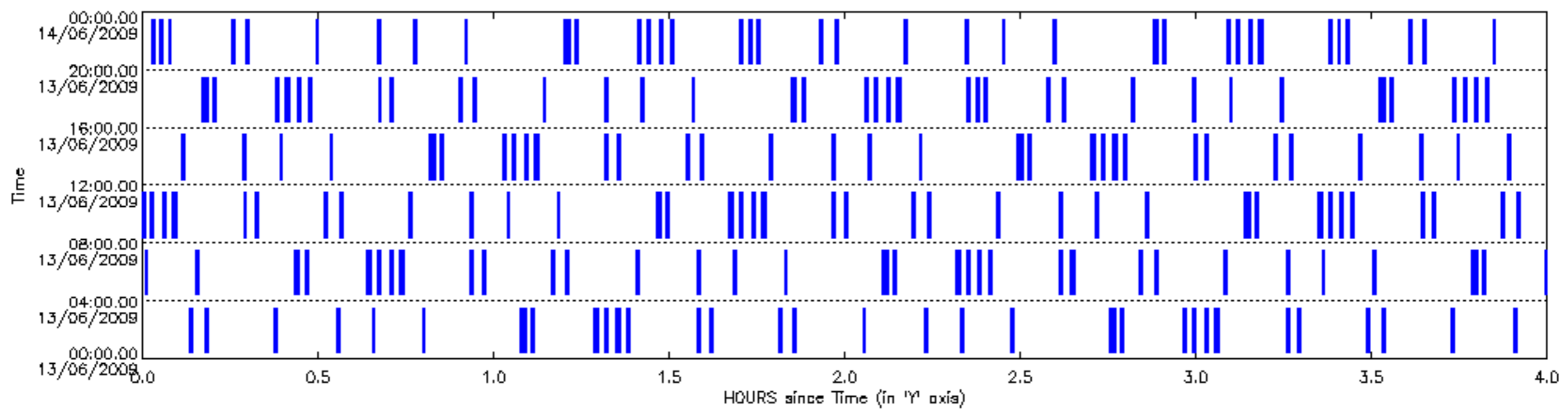
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

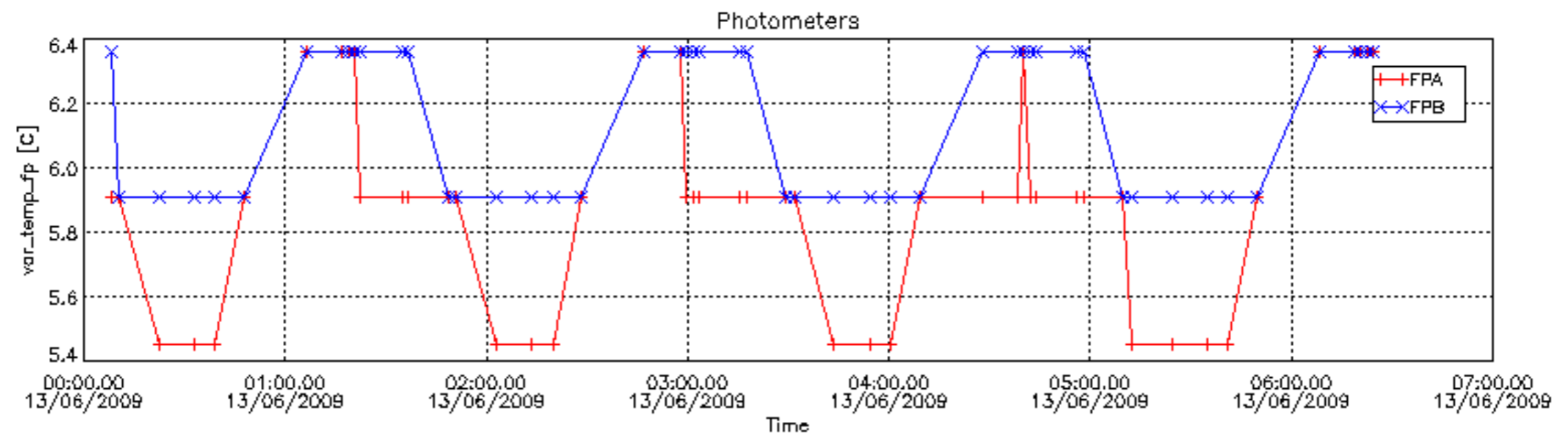
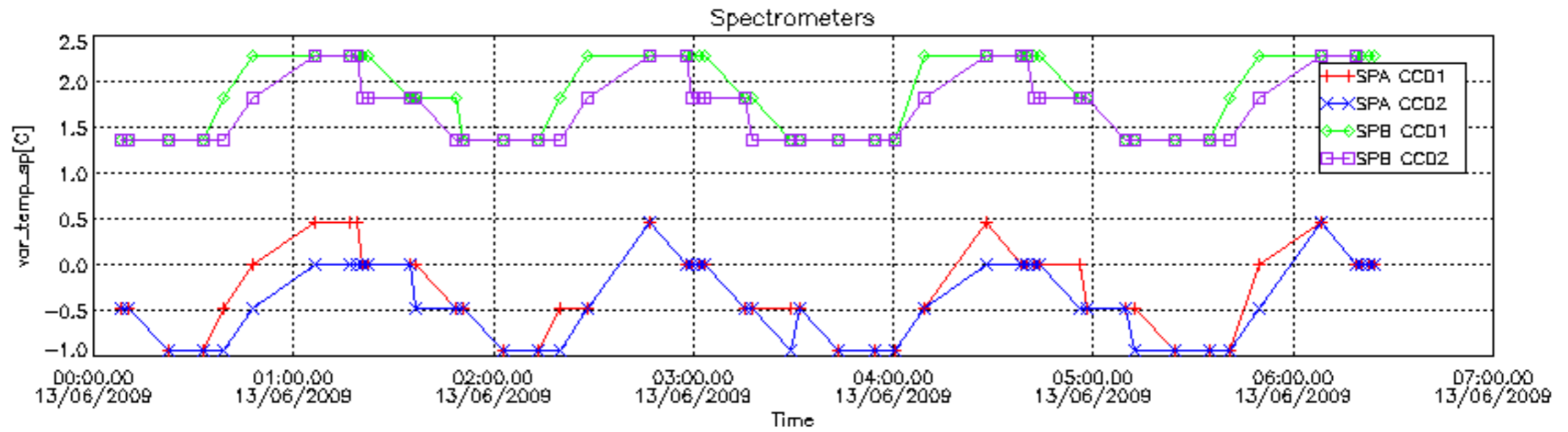


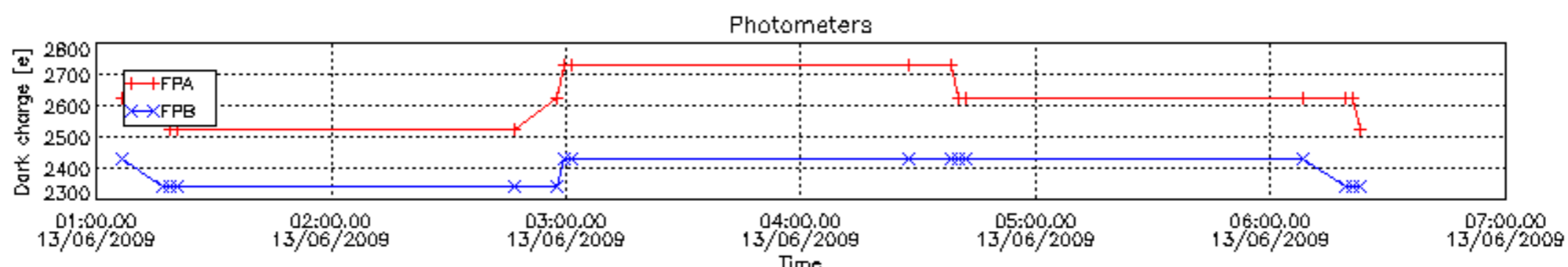
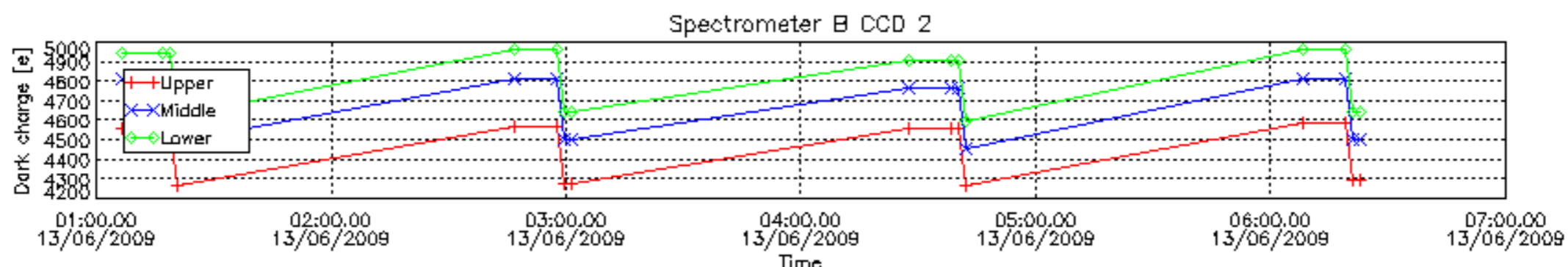
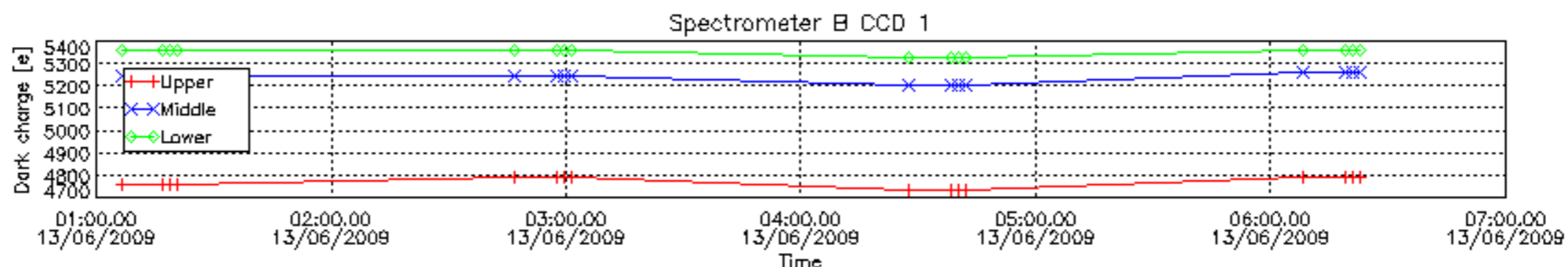
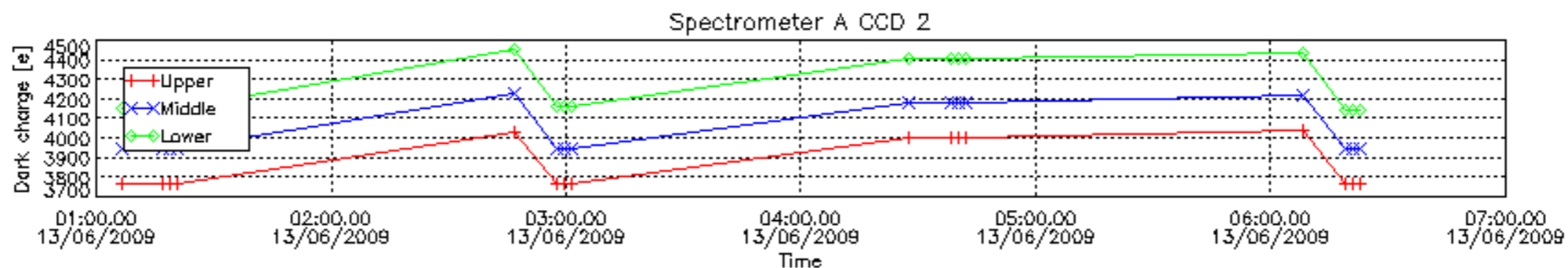
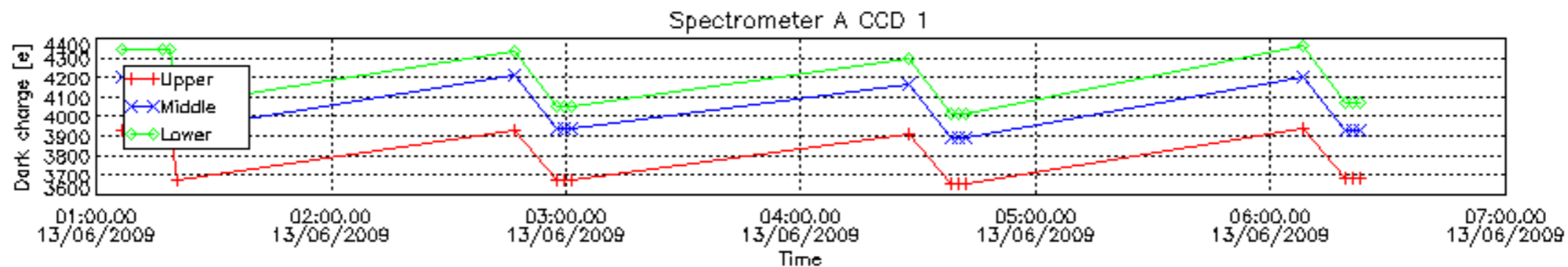
8. Auxiliary Data Files used for the production reported in section 2.4

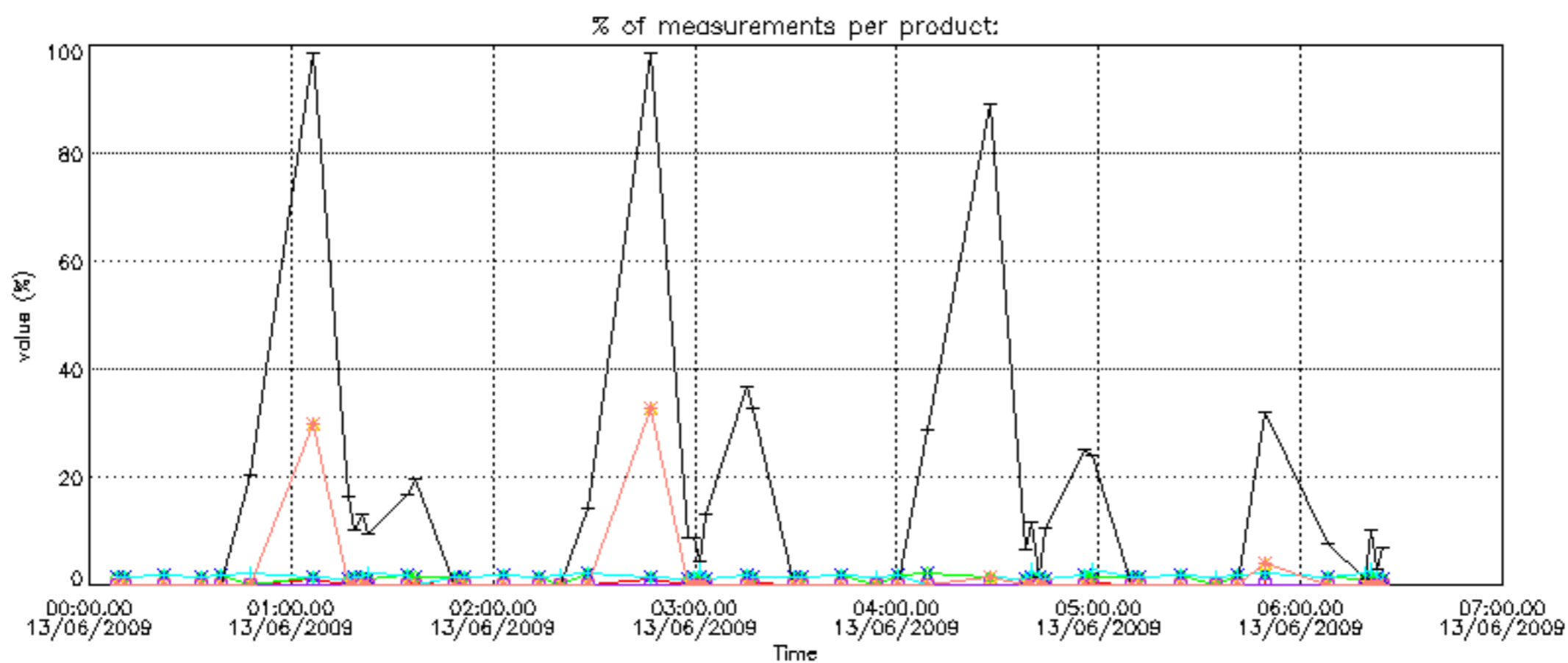
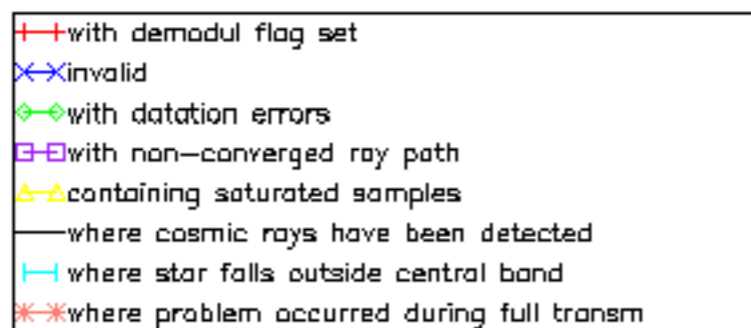
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-JUN-2009 00:07:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	13-JUN-2009 00:07:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-JUN-2009 00:07:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JUN-2009 00:07:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-JUN-2009 00:07:59
ECMWF_FILE	AUX_ECF_AXNECM20090612_064112_20090612_210000_20090613_090000	1	13-JUN-2009 00:07:59
ECMWF_FILE	AUX_ECF_AXNECM20090612_190112_20090613_030000_20090613_150000	31	13-JUN-2009 04:00:23
OPTIONAL_ECMWF_FILE	MISSING	1	13-JUN-2009 00:07:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090612_213901_000057382079_00458_38087_8139.N1	1	13-JUN-2009 00:07:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090612_231958_000057382079_00459_38088_8140.N1	7	13-JUN-2009 01:06:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090613_010055_000044632079_00460_38089_8141.N1	19	13-JUN-2009 02:28:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090613_022037_000051012079_00461_38090_8142.N1	31	13-JUN-2009 04:00:23
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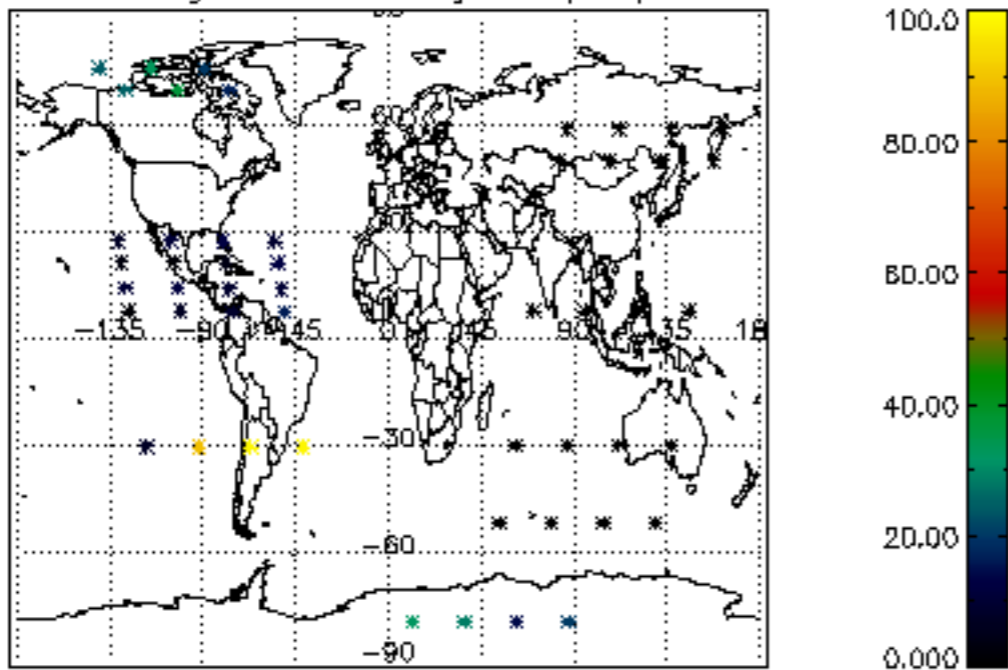




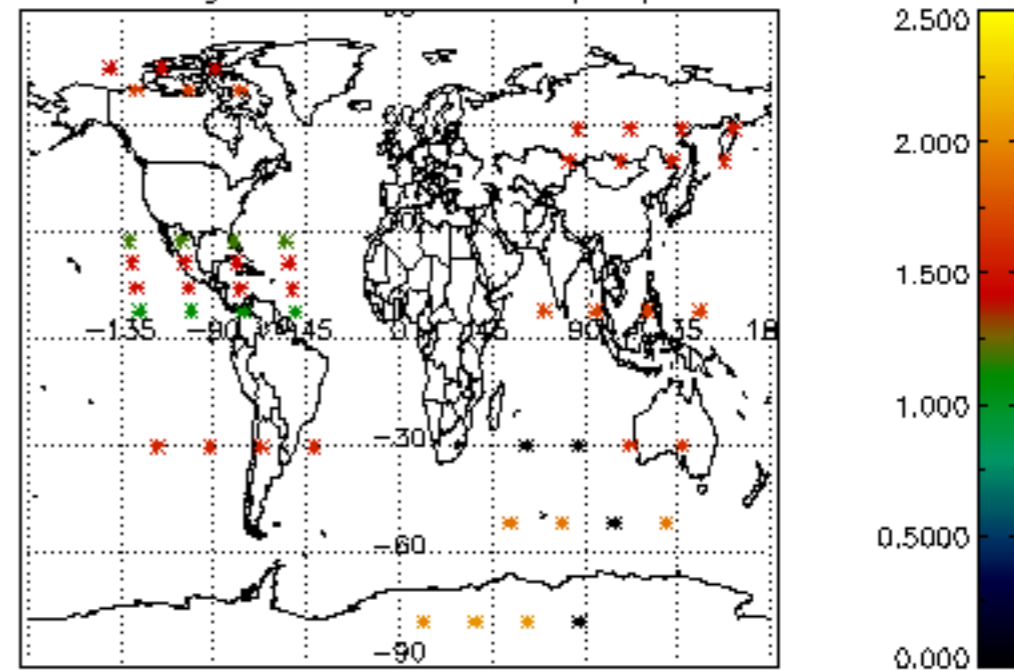




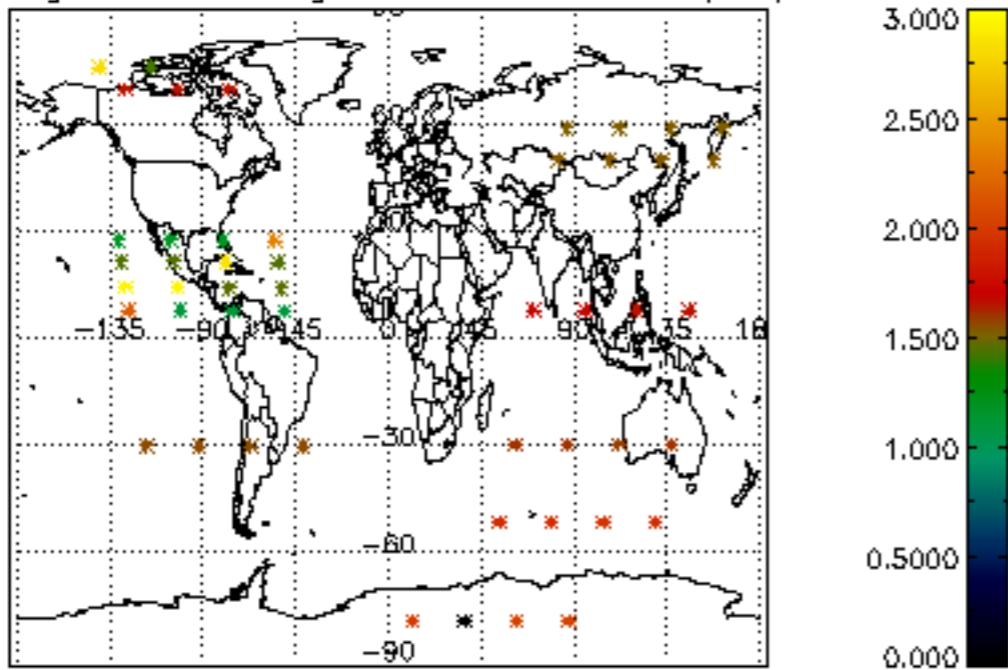
Percentage of cosmic ray hits per profile



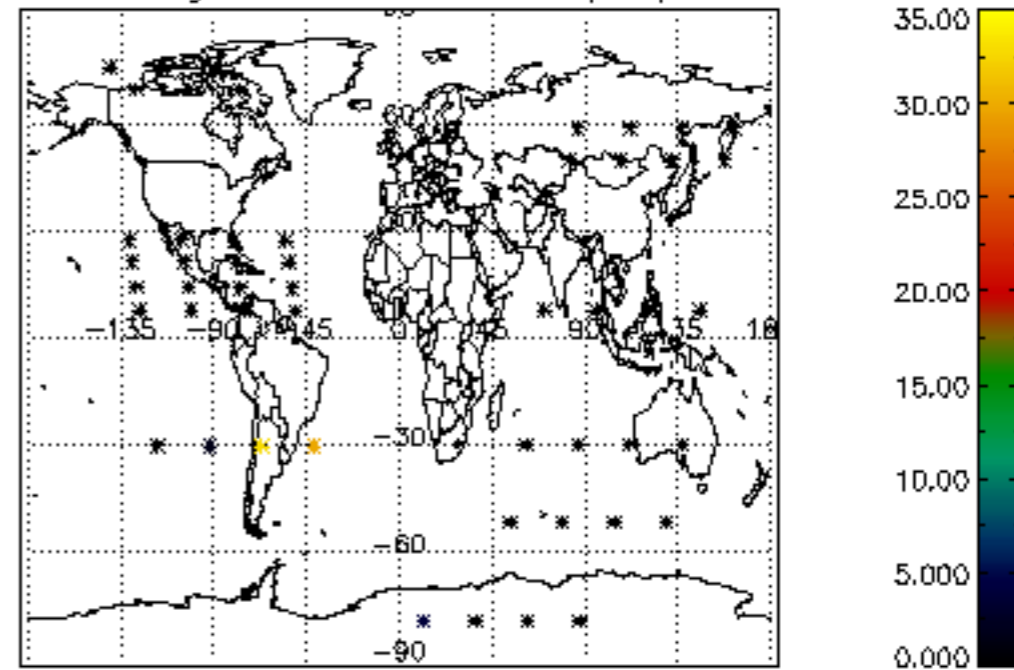
Percentage of datation errors per profile



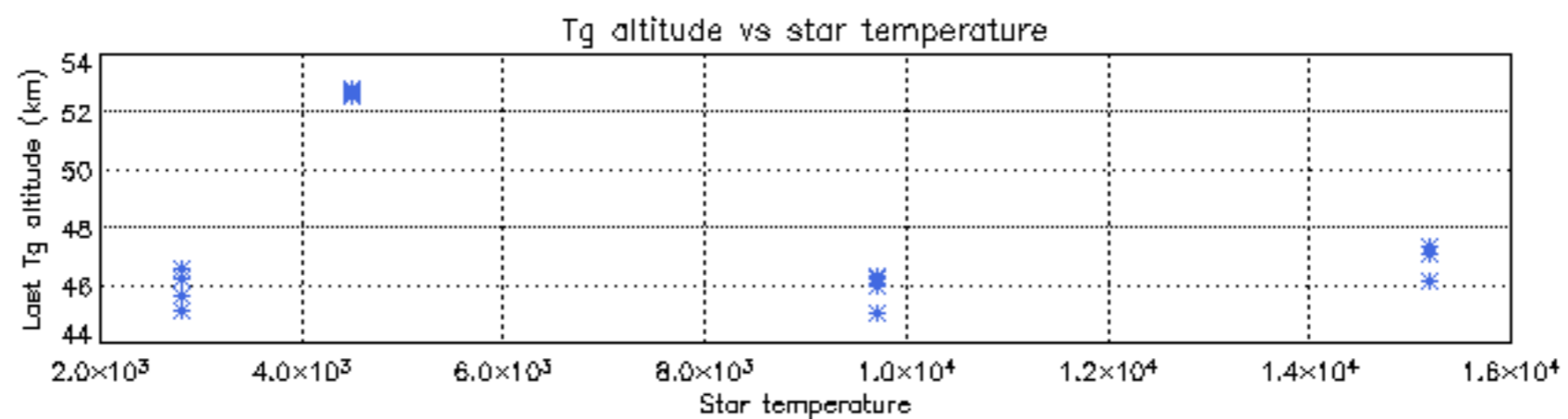
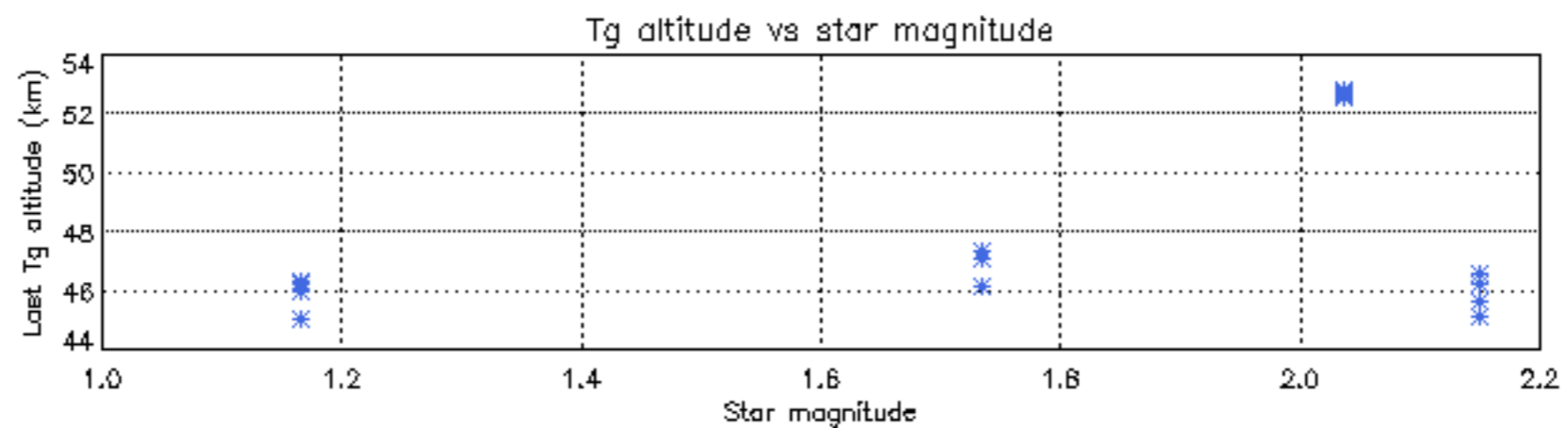
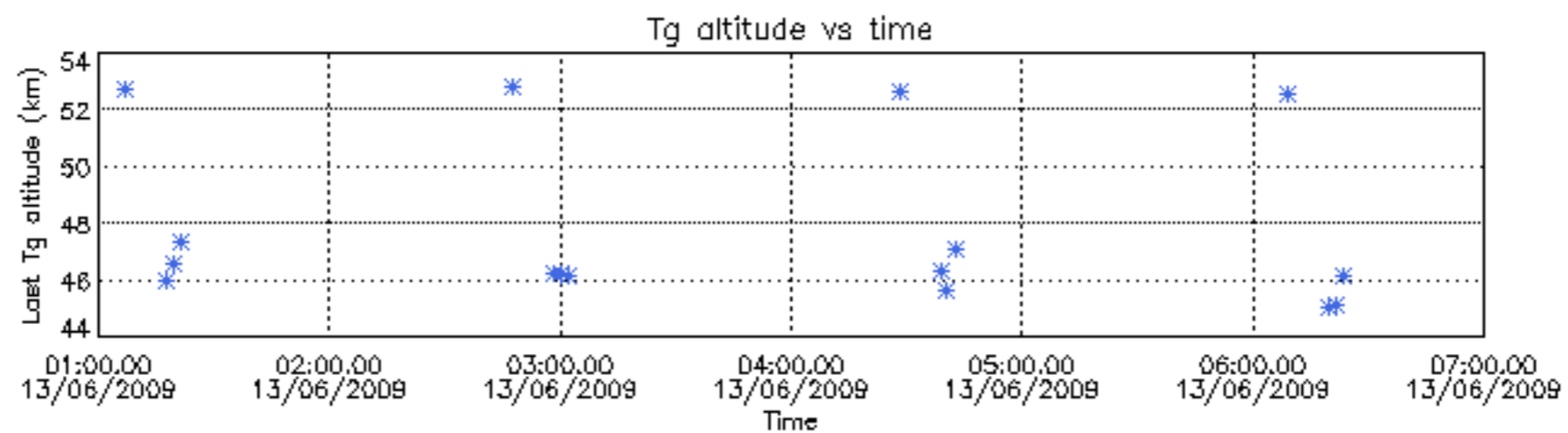
Percentage of star falling outside central band per profile



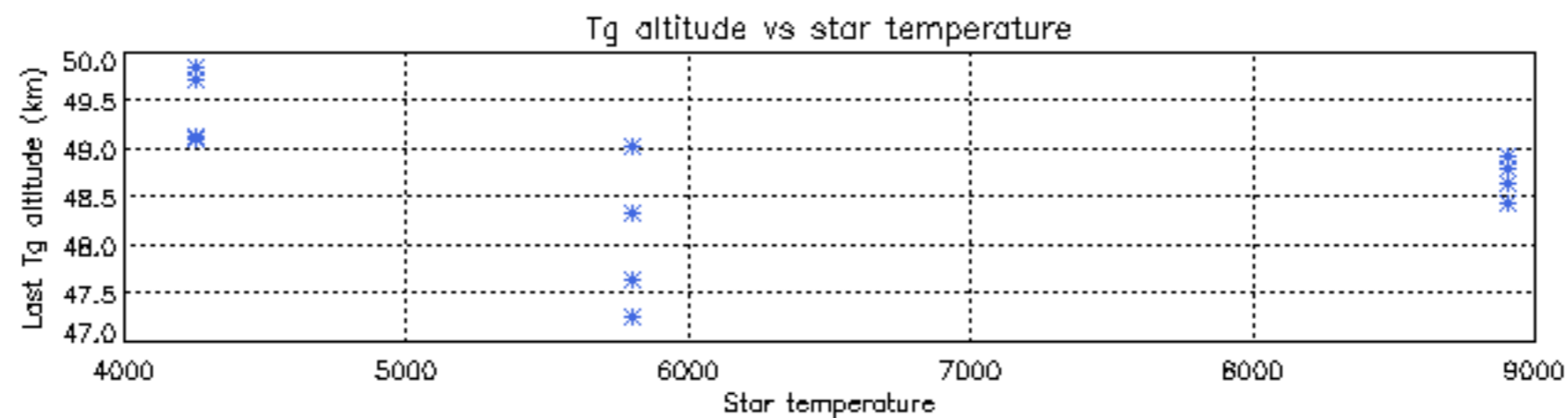
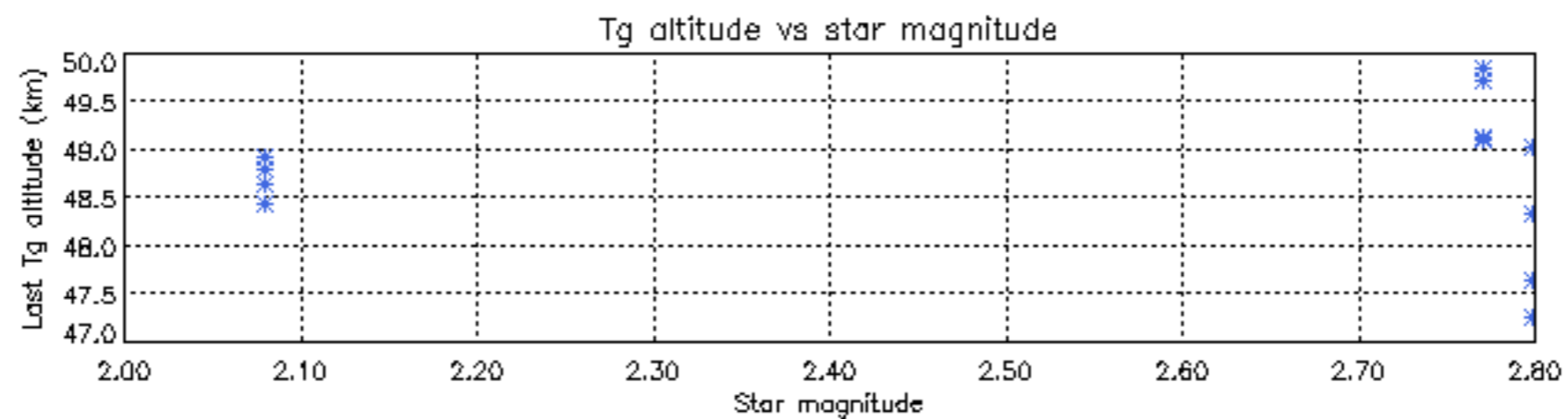
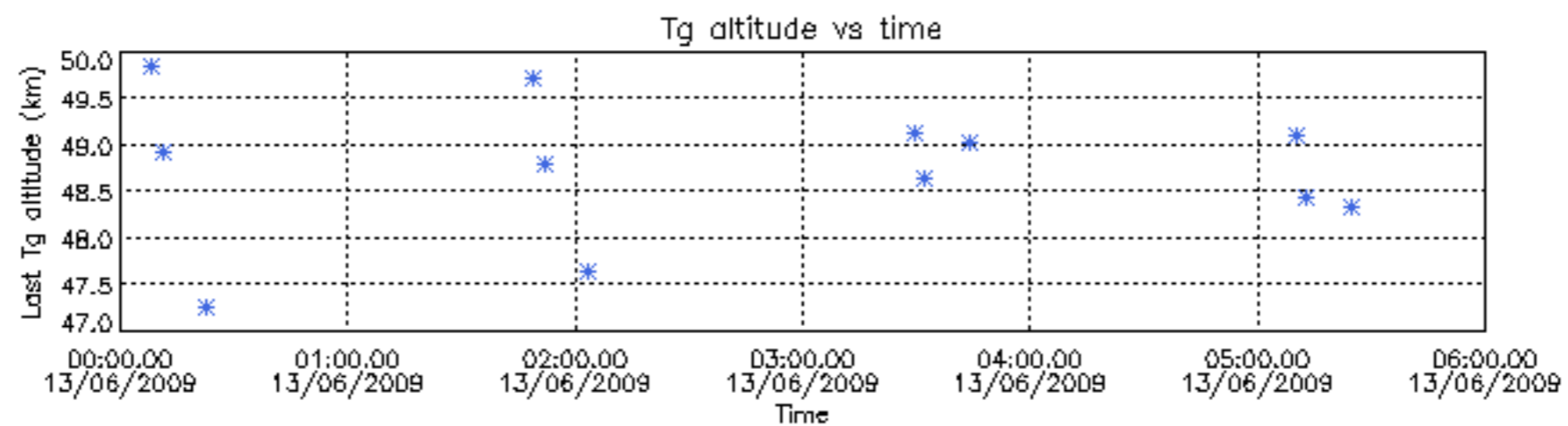
Percentage of saturation errors per profile

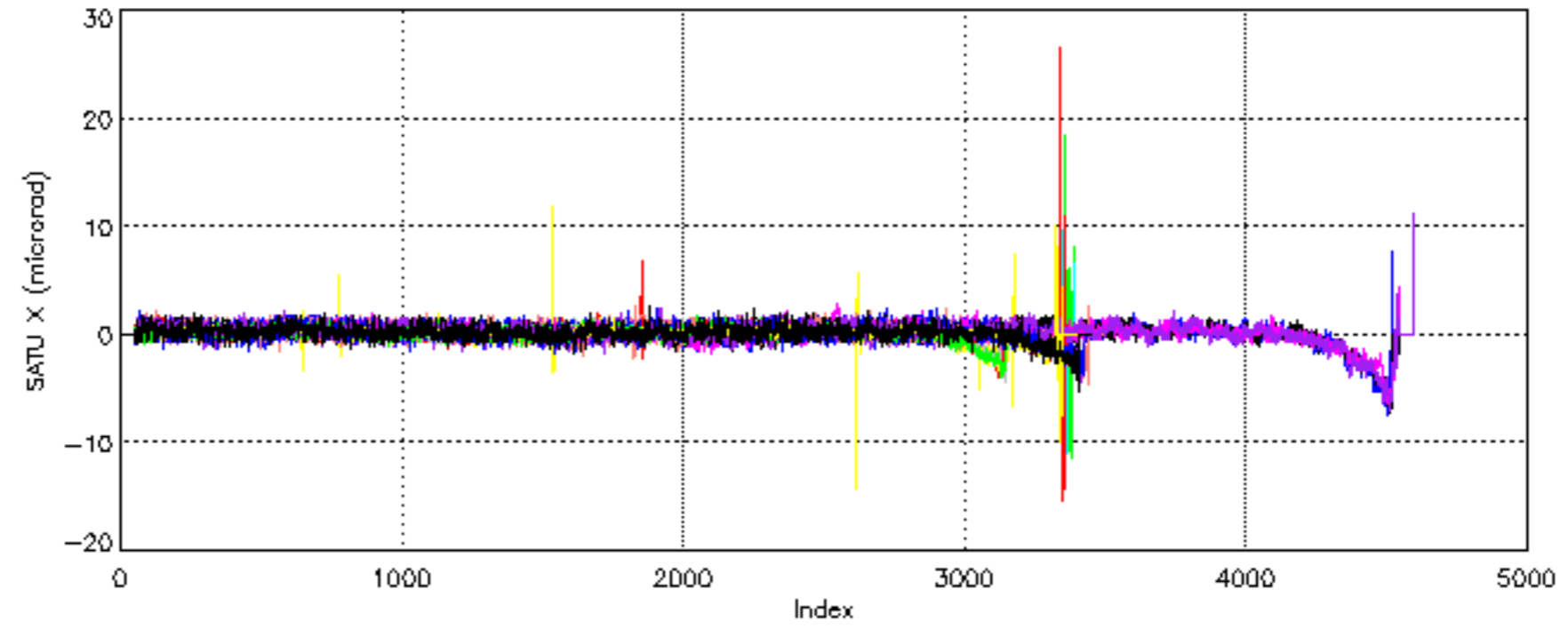


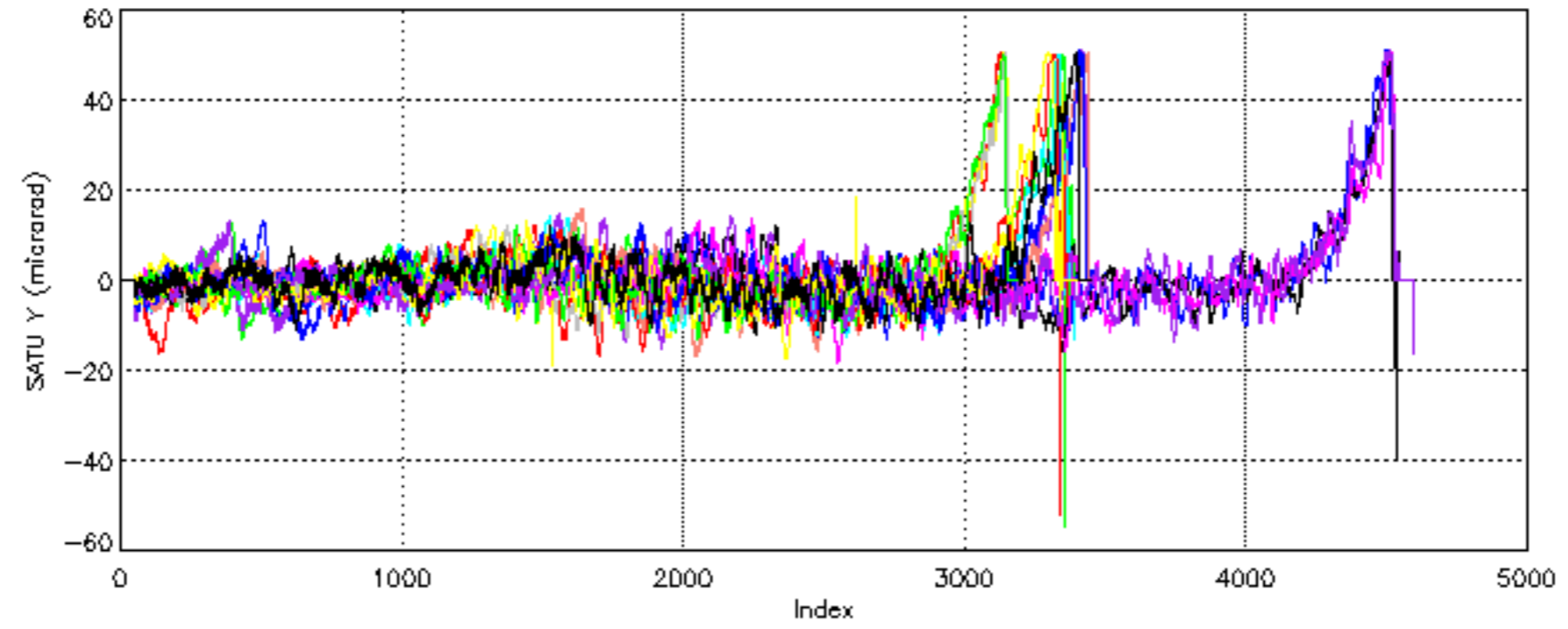
Tangent altitude at which the star is lost

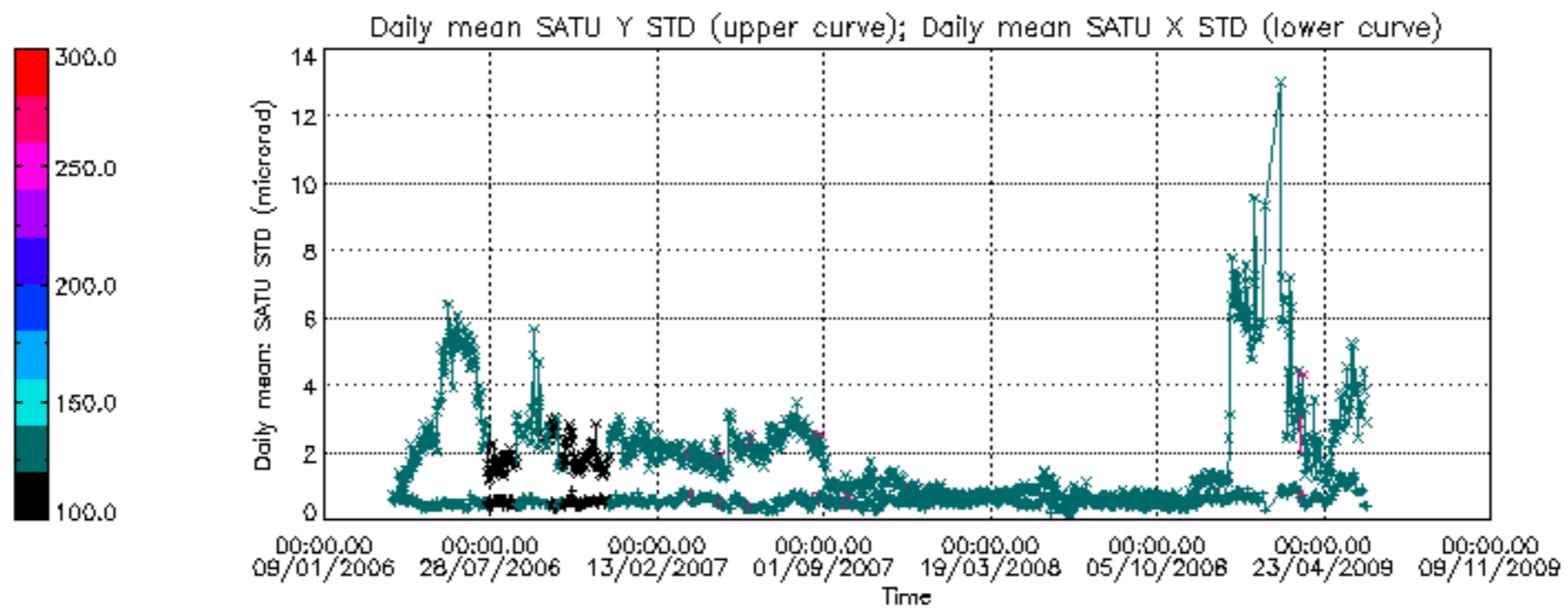


Tangent altitude at which the star is lost









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7; 3604.8; 03-JUN-2009 19:15:23; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37957
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8; 2508.2; 04-JUN-2009 03:20:06; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37962
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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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8; 1152.8; 07-JUN-2009 04:43:51; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38006
9; 1271.4; 07-JUN-2009 04:45:50; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38006
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13; 2490.9; 07-JUN-2009 05:06:09; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;38006
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11; 2897.2; 10-JUN-2009 23:45:16; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38060
12; 3539.0; 10-JUN-2009 23:55:58; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38060
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6; 318.6; 10-JUN-2009 07:56:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
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3; 2900.5; 10-JUN-2009 13:41:44; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38054
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8; 6106.8; 10-JUN-2009 14:35:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38054
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3; 2900.1; 10-JUN-2009 15:22:19; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38055
4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
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4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
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5; 208.9; 11-JUN-2009 04:02:15; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38063
6; 330.6; 11-JUN-2009 04:04:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38063
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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
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6; 210.9; 11-JUN-2009 07:23:29; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38065
7; 332.4; 11-JUN-2009 07:25:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38065
8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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2; 2181.8; 11-JUN-2009 07:56:20; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;38065
3; 2895.2; 11-JUN-2009 08:08:14; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38065
4; 3535.5; 11-JUN-2009 08:18:54; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38065
5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38065
6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
7; 5389.2; 11-JUN-2009 08:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38065
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13; 7215.7; 11-JUN-2009 09:20:14; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
5; 3898.3; 11-JUN-2009 10:05:33; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;38066
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2; 1301.9; 11-JUN-2009 21:06:28; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38073
3; 2023.1; 11-JUN-2009 21:18:29; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38073

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6; 3530.5; 11-JUN-2009 21:43:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38073
7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
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4; 219.4; 11-JUN-2009 22:29:01; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38074
5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
8; 1302.2; 11-JUN-2009 22:47:04; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38074
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11; 2891.3; 11-JUN-2009 23:13:33; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38074
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13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
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10; 2177.9; 12-JUN-2009 00:42:16; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38075
11; 2891.0; 12-JUN-2009 00:54:09; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38075
12; 3529.0; 12-JUN-2009 01:04:47; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38075
13; 3895.4; 12-JUN-2009 01:10:53; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38075
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4; 3897.6; 11-JUN-2009 11:46:08; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38067
5; 4406.8; 11-JUN-2009 11:54:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38067
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8; 6127.5; 11-JUN-2009 12:23:18; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38067
9; 6249.9; 11-JUN-2009 12:25:20; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38067
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11; 6464.1; 11-JUN-2009 12:28:54; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
12; 7216.3; 11-JUN-2009 12:41:27; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
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6; 438.7; 12-JUN-2009 01:53:52; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38076
7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
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9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
5; 2885.6; 12-JUN-2009 21:01:15; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38087
6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
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6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
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13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
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 3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
 4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
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 6; 1186.1; 12-JUN-2009 10:29:19; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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13; 3891.1; 13-JUN-2009 00:39:12; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38089
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3; 2887.1; 12-JUN-2009 15:59:28; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38084
4; 3523.2; 12-JUN-2009 16:10:04; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38084
5; 3892.8; 12-JUN-2009 16:16:14; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38084
6; 4408.3; 12-JUN-2009 16:24:49; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38084
7; 5407.7; 12-JUN-2009 16:41:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38084
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9; 6154.3; 12-JUN-2009 16:53:55; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38084
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4; 2174.0; 12-JUN-2009 17:28:11; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38085
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4; 3515.8; 13-JUN-2009 10:36:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38095
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6; 4409.0; 13-JUN-2009 10:51:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38095
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
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 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
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4; 1223.9; 19-JUN-2009 08:29:14; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38180
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 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
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 6; 605.8; 20-JUN-2009 21:12:07; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38202
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14; 3442.8; 20-JUN-2009 21:59:24; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38202
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 4; 345.4; 20-JUN-2009 22:48:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38203
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 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
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2; 83.7; 30-JUN-2009 00:41:51; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38333
3; 473.2; 30-JUN-2009 00:48:20; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;38333
4; 590.9; 30-JUN-2009 00:50:18; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38333
5; 761.2; 30-JUN-2009 00:53:08; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38333
6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
8; 2658.6; 30-JUN-2009 01:24:46; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;38333
9; 2935.1; 30-JUN-2009 01:29:22; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38333

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11; 3791.9; 30-JUN-2009 01:43:39; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38333
12; 3892.9; 30-JUN-2009 01:45:20; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;38333
13; 4267.5; 30-JUN-2009 01:51:35; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38333
14; 4423.9; 30-JUN-2009 01:54:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38333
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 3; 474.5; 30-JUN-2009 02:28:57; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;38334
 4; 591.7; 30-JUN-2009 02:30:55; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38334
 5; 762.6; 30-JUN-2009 02:33:46; Dark ; 61.0; 172; Gam Gru ; 3.00; 13100;occ; 122; 0;38334
 6; 1478.7; 30-JUN-2009 02:45:42; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;38334
 7; 2239.3; 30-JUN-2009 02:58:22; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38334
 8; 2658.2; 30-JUN-2009 03:05:21; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;38334
 9; 2934.2; 30-JUN-2009 03:09:57; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38334
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 3;-1768.4; 30-JUN-2009 03:32:10; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38334
 4;-1612.1; 30-JUN-2009 03:34:47; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38334
 5;-1360.1; 30-JUN-2009 03:38:59; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38334
 6; -543.8; 30-JUN-2009 03:52:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38334
 7; 86.1; 30-JUN-2009 04:03:05; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38335
 8; 475.5; 30-JUN-2009 04:09:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38335
 9; 592.7; 30-JUN-2009 04:11:32; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38335
10; 763.9; 30-JUN-2009 04:14:23; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38335
11; 1478.7; 30-JUN-2009 04:26:18; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;38335
12; 2238.9; 30-JUN-2009 04:38:58; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38335
13; 2657.9; 30-JUN-2009 04:45:57; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38335
14; 2933.3; 30-JUN-2009 04:50:32; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38335
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 3;-1768.4; 30-JUN-2009 05:12:47; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38335
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 7; 87.2; 30-JUN-2009 05:43:42; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38336
 8; 476.7; 30-JUN-2009 05:50:12; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38336
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12; 2238.2; 30-JUN-2009 06:19:33; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38336
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 2; 2233.1; 30-JUN-2009 21:24:51; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38345
 3; 2652.6; 30-JUN-2009 21:31:51; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38345
 4; 2924.2; 30-JUN-2009 21:36:23; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38345
 5; 3345.0; 30-JUN-2009 21:43:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38345
 6; 3786.0; 30-JUN-2009 21:50:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38345
 7; 3887.5; 30-JUN-2009 21:52:26; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;38345
 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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 3; 486.1; 30-JUN-2009 22:36:20; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;38346
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 5; 775.5; 30-JUN-2009 22:41:10; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38346
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 7; 2232.6; 30-JUN-2009 23:05:27; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38346

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9; 2923.5; 30-JUN-2009 23:16:58; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38346
10; 3344.3; 30-JUN-2009 23:23:59; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38346
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12; 3887.2; 30-JUN-2009 23:33:01; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;38346
13; 4266.8; 30-JUN-2009 23:39:21; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38346
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4; 603.1; 01-JUL-2009 00:18:53; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38347
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7; 2651.7; 01-JUL-2009 00:53:02; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38347
8; 2922.6; 01-JUL-2009 00:57:33; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38347
9; 3343.6; 01-JUL-2009 01:04:34; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38347
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13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38347
14; 4680.2; 01-JUL-2009 01:26:50; Dark ; 38.5; 50; 13Alp Ari ; 2.01; 4250;occ; 77; 0;38347
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8; 477.3; 30-JUN-2009 07:30:48; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38337
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