

GOMOS Daily Report 21-SEP-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	24SEP2009 04:36:46
Data source version	GOMOS/5.00
Start time of products	21SEP2009 00:06:01
Stop time of products	21SEP2009 23:55:34
Store outputs in DB	Yes
Nb of level 1b prods	64
Nb of prods with errors	0

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

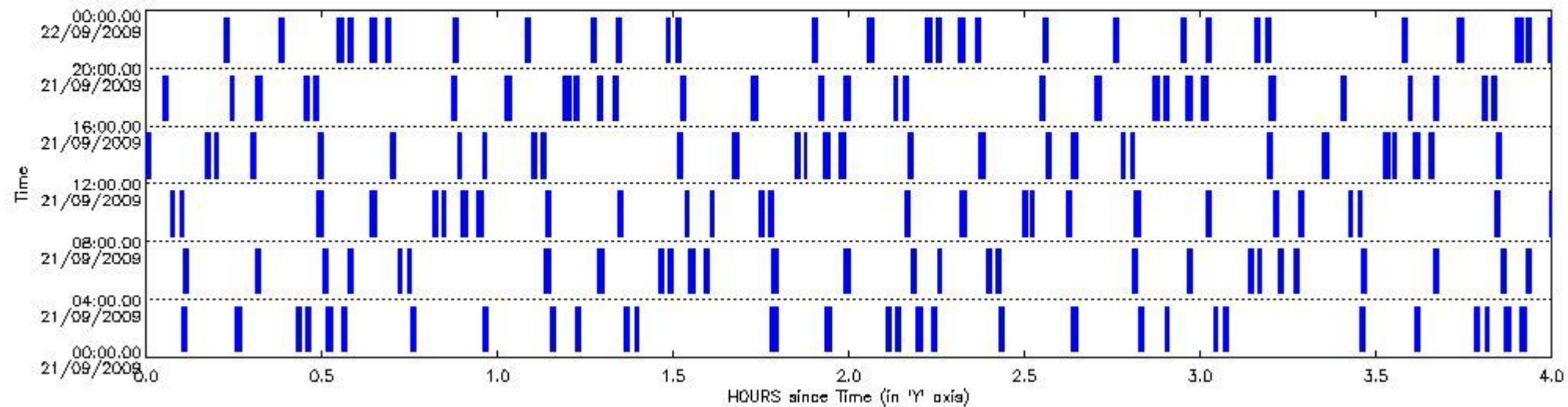
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

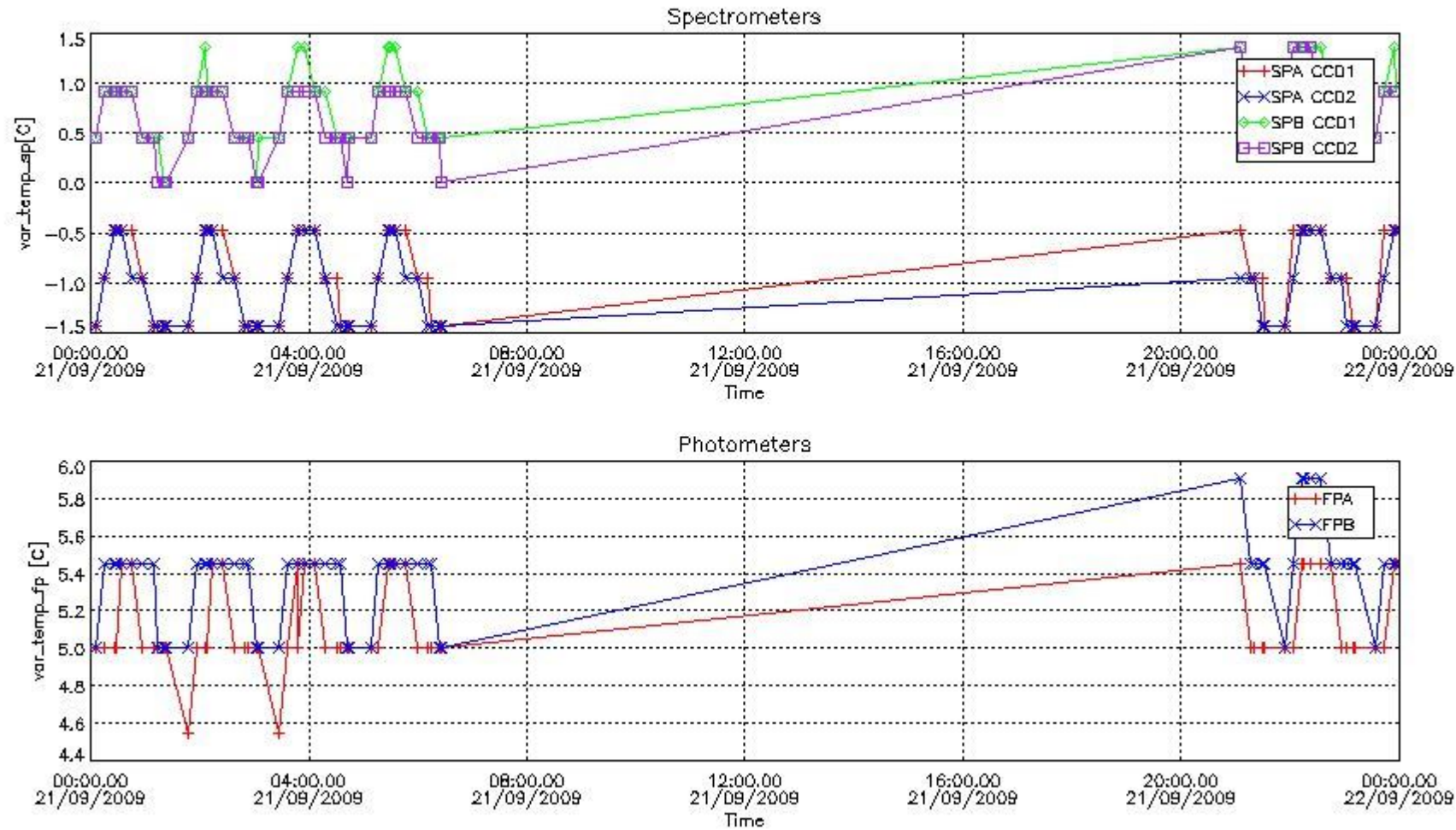
No missing products.

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_1PNPDE20090921_000601_000000502082_00388_39520_2776.N1	21-SEP-2009 00:06:01	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	39520	No
2	GOM_TRA_1PNPDE20090921_001515_000000592082_00388_39520_2777.N1	21-SEP-2009 00:15:15	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	39520	No
3	GOM_TRA_1PNPDE20090921_002540_000000442082_00388_39520_2909.N1	21-SEP-2009 00:25:40	Dark	43.500	88	31Eta CMa	2.4480	20000.	87	39520	No
4	GOM_TRA_1PNPDE20090921_002717_000000492082_00388_39520_2910.N1	21-SEP-2009 00:27:17	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	39520	No
5	GOM_TRA_1PNPDE20090921_003325_000000532082_00389_39521_2911.N1	21-SEP-2009 00:33:25	Dark	53.000	108	Alp Col	2.6520	15200.	106	39521	No
6	GOM_TRA_1PNPDE20090921_004503_000000532082_00389_39521_2912.N1	21-SEP-2009 00:45:03	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	39521	No
7	GOM_TRA_1PNPDE20090921_005723_000000542082_00389_39521_2913.N1	21-SEP-2009 00:57:23	Twilight_and_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	39521	No
8	GOM_TRA_1PNPDE20090921_010857_000000462082_00389_39521_2914.N1	21-SEP-2009 01:08:57	Bright	45.500	140	88Gam Peg	2.8340	26000.	91	39521	No
9	GOM_TRA_1PNPDE20090921_011318_000000442082_00389_39521_2915.N1	21-SEP-2009 01:13:18	Bright	43.500	58	21Alp And	2.0730	11000.	87	39521	No
10	GOM_TRA_1PNPDE20090921_012142_000000402082_00389_39521_2916.N1	21-SEP-2009 01:21:42	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39521	No
11	GOM_TRA_1PNPDE20090921_012322_000000402082_00389_39521_2917.N1	21-SEP-2009 01:23:22	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	39521	No
12	GOM_TRA_1PNPDE20090921_014637_000000672082_00389_39521_2918.N1	21-SEP-2009 01:46:37	Bright	67.000	24	66Alp Gem	1.5800	10200.	134	39521	No

13	GOM_TRA_1PNPDE20090921_015552_000000642082_00389_39521_2919.N1	21-SEP-2009 01:55:52	Dark	64.000	8	10Alp CMI	0.40000	6500.0	128	39521	No
14	GOM_TRA_1PNPDE20090921_020617_000000452082_00389_39521_3071.N1	21-SEP-2009 02:06:17	Dark	45.000	88	31Eta CMa	2.4480	20000.	90	39521	No
15	GOM_TRA_1PNPDE20090921_020755_000000492082_00389_39521_3072.N1	21-SEP-2009 02:07:55	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	39521	No
16	GOM_TRA_1PNPDE20090921_021402_000000542082_00390_39522_3073.N1	21-SEP-2009 02:14:02	Dark	53.500	108	Alp Col	2.6520	15200.	107	39522	No
17	GOM_TRA_1PNPDE20090921_022540_000000532082_00390_39522_3074.N1	21-SEP-2009 02:25:40	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	39522	No
18	GOM_TRA_1PNPDE20090921_023800_000000542082_00390_39522_3075.N1	21-SEP-2009 02:38:00	Twilight_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	39522	No
19	GOM_TRA_1PNPDE20090921_024932_000000452082_00390_39522_3076.N1	21-SEP-2009 02:49:32	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39522	No
20	GOM_TRA_1PNPDE20090921_025353_000000442082_00390_39522_3077.N1	21-SEP-2009 02:53:53	Bright	44.000	58	21Alp And	2.0730	11000.	88	39522	No
21	GOM_TRA_1PNPDE20090921_030218_000000372082_00390_39522_3078.N1	21-SEP-2009 03:02:18	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	39522	No
22	GOM_TRA_1PNPDE20090921_030357_000000422082_00390_39522_3079.N1	21-SEP-2009 03:03:57	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39522	No
23	GOM_TRA_1PNPDE20090921_032713_000000482082_00390_39522_3201.N1	21-SEP-2009 03:27:13	Bright	47.500	24	66Alp Gem	1.5800	10200.	95	39522	No
24	GOM_TRA_1PNPDE20090921_033628_000000592082_00390_39522_3202.N1	21-SEP-2009 03:36:28	Dark	58.500	8	10Alp CMI	0.40000	6500.0	117	39522	No
25	GOM_TRA_1PNPDE20090921_034654_000000472082_00390_39522_3203.N1	21-SEP-2009 03:46:54	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	39522	No
26	GOM_TRA_1PNPDE20090921_034832_000000432082_00390_39522_3204.N1	21-SEP-2009 03:48:32	Dark	43.000	47	2Bet CMa	1.9760	28000.	86	39522	No
27	GOM_TRA_1PNPDE20090921_035440_000000542082_00391_39523_3205.N1	21-SEP-2009 03:54:40	Dark	54.000	108	Alp Col	2.6520	15200.	108	39523	No
28	GOM_TRA_1PNPDE20090921_040617_000000542082_00391_39523_3206.N1	21-SEP-2009 04:06:17	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	39523	No
29	GOM_TRA_1PNPDE20090921_041836_000000542082_00391_39523_3207.N1	21-SEP-2009 04:18:36	Twilight_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39523	No
30	GOM_TRA_1PNPDE20090921_043008_000000452082_00391_39523_3208.N1	21-SEP-2009 04:30:08	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39523	No
31	GOM_TRA_1PNPDE20090921_043429_000000442082_00391_39523_3209.N1	21-SEP-2009 04:34:29	Bright	43.500	58	21Alp And	2.0730	11000.	87	39523	No
32	GOM_TRA_1PNPDE20090921_044254_000000402082_00391_39523_3210.N1	21-SEP-2009 04:42:54	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39523	No
33	GOM_TRA_1PNPDE20090921_044432_000000422082_00391_39523_3211.N1	21-SEP-2009 04:44:32	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39523	No
34	GOM_TRA_1PNPDE20090921_050749_000000672082_00391_39523_3410.N1	21-SEP-2009 05:07:49	Bright	67.000	24	66Alp Gem	1.5800	10200.	134	39523	No
35	GOM_TRA_1PNPDE20090921_051705_000000572082_00391_39523_3411.N1	21-SEP-2009 05:17:05	Dark	56.500	8	10Alp CMI	0.40000	6500.0	113	39523	No
36	GOM_TRA_1PNPDE20090921_052731_000000452082_00391_39523_3412.N1	21-SEP-2009 05:27:31	Dark	45.000	88	31Eta CMa	2.4480	20000.	90	39523	No
37	GOM_TRA_1PNPDE20090921_052910_000000432082_00391_39523_3413.N1	21-SEP-2009 05:29:10	Dark	43.000	47	2Bet CMa	1.9760	28000.	86	39523	No
38	GOM_TRA_1PNPDE20090921_053517_000000552082_00392_39524_3414.N1	21-SEP-2009 05:35:17	Dark	54.500	108	Alp Col	2.6520	15200.	109	39524	No
39	GOM_TRA_1PNPDE20090921_054654_000000542082_00392_39524_3415.N1	21-SEP-2009 05:46:54	Straylight	53.500	157	The1Eri	2.9060	9300.0	107	39524	No
40	GOM_TRA_1PNPDE20090921_055912_000000542082_00392_39524_3416.N1	21-SEP-2009 05:59:12	Twilight_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39524	No
41	GOM_TRA_1PNPDE20090921_061043_000000452082_00392_39524_3417.N1	21-SEP-2009 06:10:43	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	39524	No
42	GOM_TRA_1PNPDE20090921_061504_000000442082_00392_39524_3418.N1	21-SEP-2009 06:15:04	Bright	44.000	58	21Alp And	2.0730	11000.	88	39524	No
43	GOM_TRA_1PNPDE20090921_062329_000000402082_00392_39524_3419.N1	21-SEP-2009 06:23:29	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39524	No
44	GOM_TRA_1PNPDE20090921_062508_000000422082_00392_39524_3420.N1	21-SEP-2009 06:25:08	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39524	No
45	GOM_TRA_1PNPDE20090921_210436_000000512082_00401_39533_3790.N1	21-SEP-2009 21:04:36	Twilight_stray	50.500	52	16Bet Cet	2.0370	4500.0	101	39533	No
46	GOM_TRA_1PNPDE20090921_211603_000000442082_00401_39533_3791.N1	21-SEP-2009 21:16:03	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39533	No
47	GOM_TRA_1PNPDE20090921_212023_000000422082_00401_39533_3792.N1	21-SEP-2009 21:20:23	Bright	42.000	58	21Alp And	2.0730	11000.	84	39533	No
48	GOM_TRA_1PNPDE20090921_212849_000000402082_00401_39533_3793.N1	21-SEP-2009 21:28:49	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39533	No
49	GOM_TRA_1PNPDE20090921_213027_000000432082_00401_39533_3794.N1	21-SEP-2009 21:30:27	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	39533	No
50	GOM_TRA_1PNPDE20090921_215350_000000502082_00401_39533_3795.N1	21-SEP-2009 21:53:50	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	39533	No
51	GOM_TRA_1PNPDE20090921_220311_000000662082_00401_39533_3796.N1	21-SEP-2009 22:03:11	Dark	66.000	8	10Alp CMI	0.40000	6500.0	132	39533	No
52	GOM_TRA_1PNPDE20090921_221308_000000662082_00401_39533_3945.N1	21-SEP-2009 22:13:08	Dark	65.500	1	9Alp CMa	-1.4400	11000.	131	39533	No
53	GOM_TRA_1PNPDE20090921_221457_000000512082_00401_39533_3946.N1	21-SEP-2009 22:14:57	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	39533	No
54	GOM_TRA_1PNPDE20090921_222130_000000542082_00402_39534_3947.N1	21-SEP-2009 22:21:30	Dark	53.500	108	Alp Col	2.6520	15200.	107	39534	No
55	GOM_TRA_1PNPDE20090921_223302_000000522082_00402_39534_3948.N1	21-SEP-2009 22:33:02	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	39534	No
56	GOM_TRA_1PNPDE20090921_224512_000000542082_00402_39534_3949.N1	21-SEP-2009 22:45:12	Twilight_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39534	No
57	GOM_TRA_1PNPDE20090921_225638_000000442082_00402_39534_3950.N1	21-SEP-2009 22:56:38	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	39534	No
58	GOM_TRA_1PNPDE20090921_230058_000000432082_00402_39534_3951.N1	21-SEP-2009 23:00:58	Bright	42.500	58	21Alp And	2.0730	11000.	85	39534	No
59	GOM_TRA_1PNPDE20090921_230925_000000402082_00402_39534_3952.N1	21-SEP-2009 23:09:25	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39534	No
60	GOM_TRA_1PNPDE20090921_231102_000000522082_00402_39534_3953.N1	21-SEP-2009 23:11:02	Bright	51.500	76	27Gam Cas	2.3000	30000.	103	39534	No
61	GOM_TRA_1PNPDE20090921_233426_000000482082_00402_39534_3954.N1	21-SEP-2009 23:34:26	Bright	47.500	24	66Alp Gem	1.5800	10200.	95	39534	No
62	GOM_TRA_1PNPDE20090921_234347_000000612082_00402_39534_3955.N1	21-SEP-2009 23:43:47	Dark	60.500	8	10Alp CMI	0.40000	6500.0	121	39534	No
63	GOM_TRA_1PNPDE20090921_235345_000000762082_00402_39534_4204.N1	21-SEP-2009 23:53:45	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	39534	No
64	GOM_TRA_1PNPDE20090921_235534_000000512082_00402_39534_4205.N1	21-SEP-2009 23:55:34	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	39534	No

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



4. Overview of dark signal processing per product

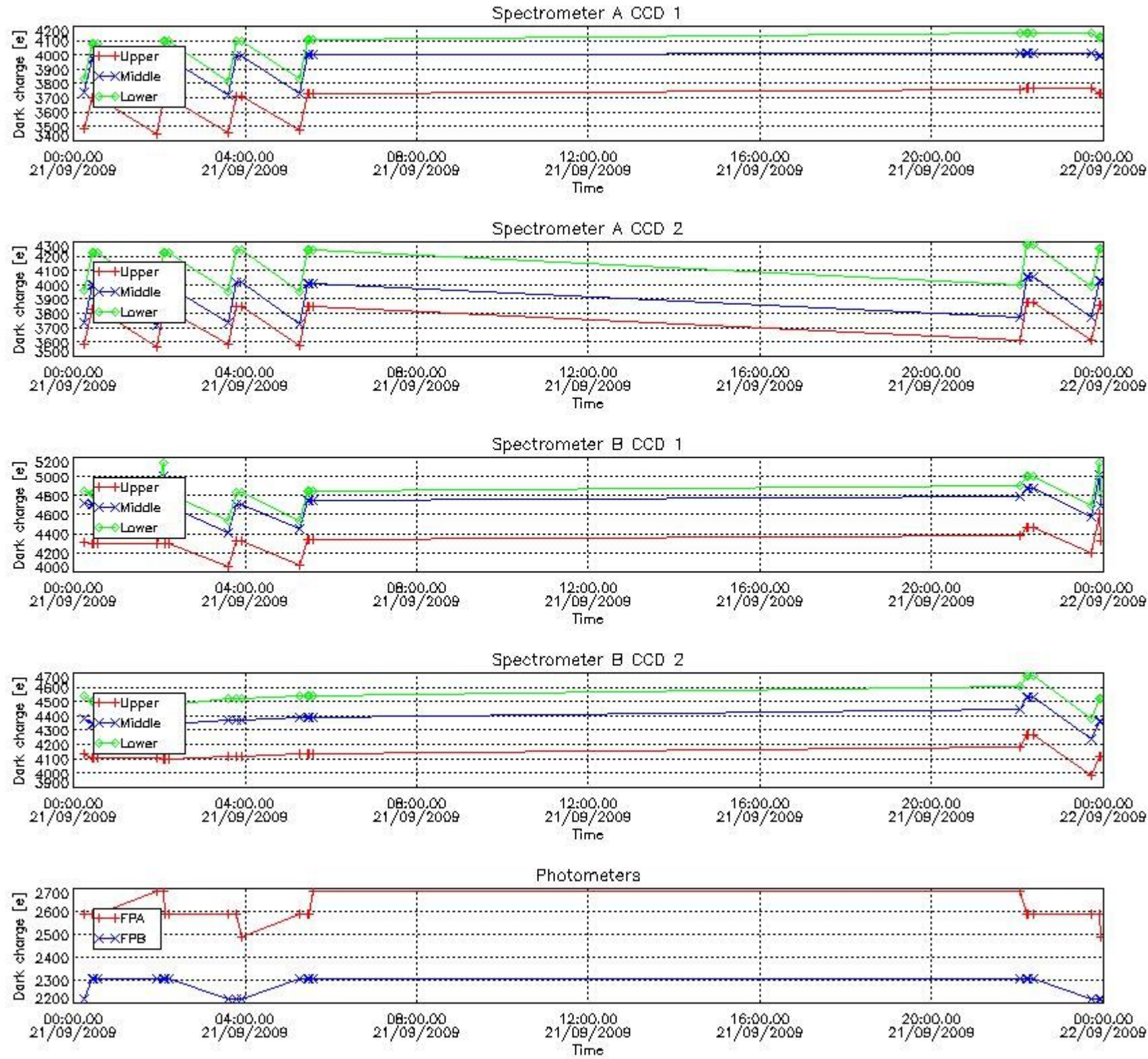
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090921_210436_000000512082_00401_39533_3790.N1	DC map used
GOM_TRA_1PNPDE20090921_211603_000000442082_00401_39533_3791.N1	DC map used
GOM_TRA_1PNPDE20090921_212023_000000422082_00401_39533_3792.N1	DC map used
GOM_TRA_1PNPDE20090921_212849_000000402082_00401_39533_3793.N1	DC map used
GOM_TRA_1PNPDE20090921_213027_000000432082_00401_39533_3794.N1	DC map used
GOM_TRA_1PNPDE20090921_215350_000000502082_00401_39533_3795.N1	DC map used
GOM_TRA_1PNPDE20090921_220311_000000662082_00401_39533_3796.N1	DC map used

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



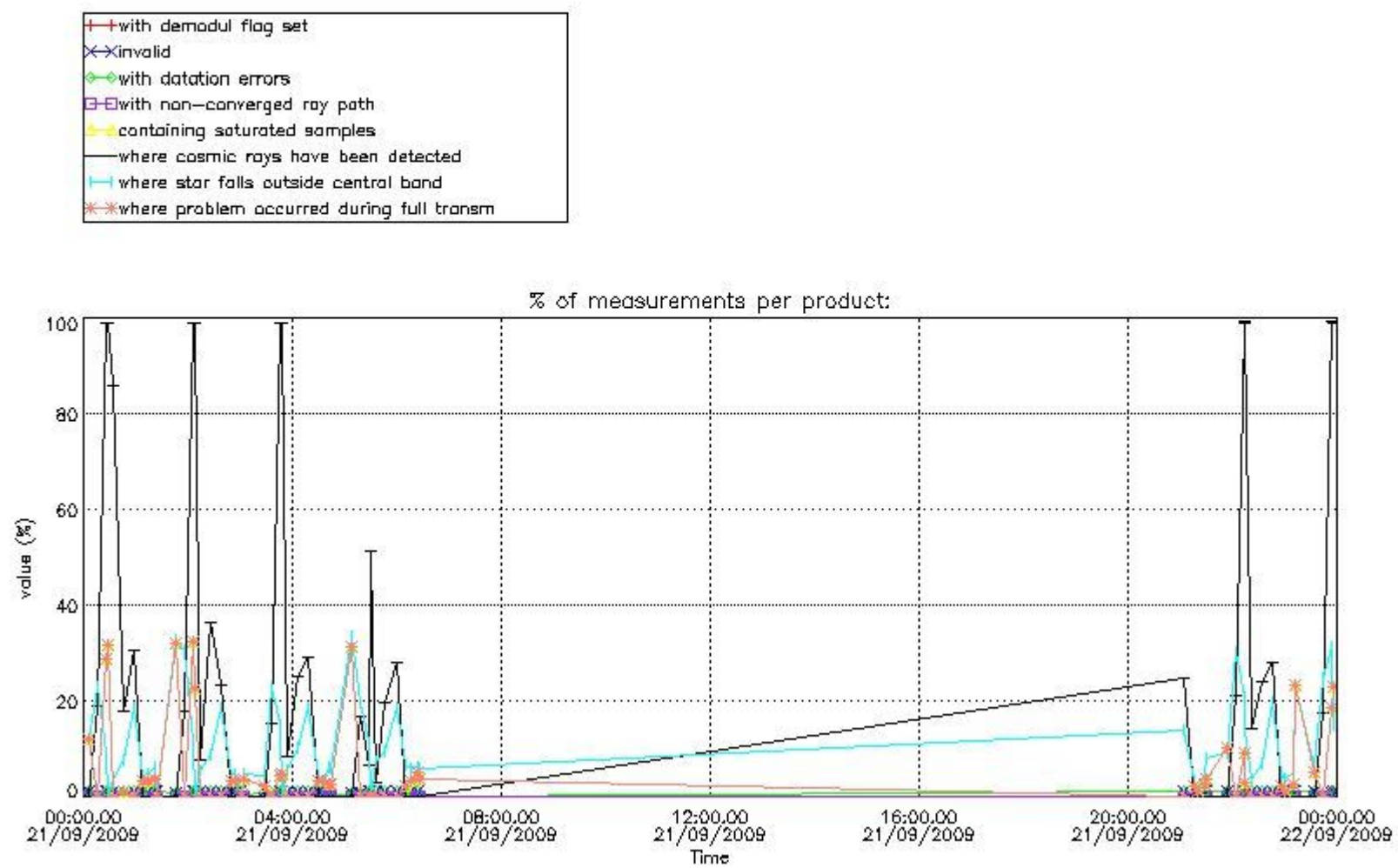
5. Demodulation flag and quality information monitoring

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.

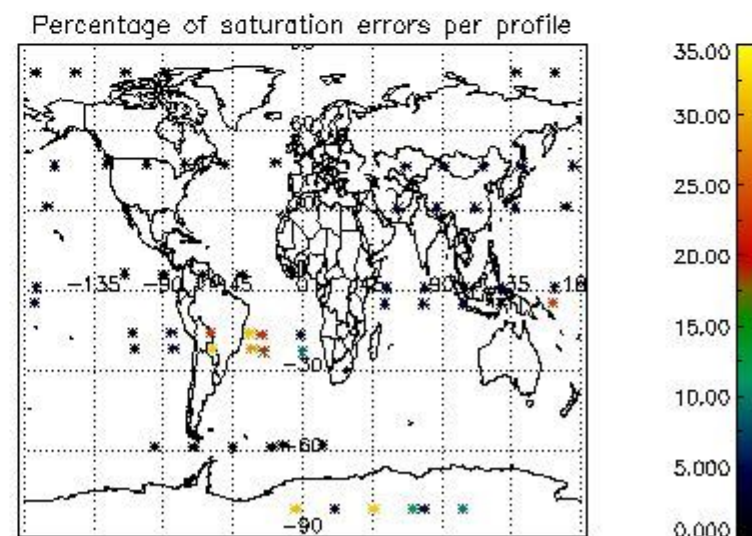
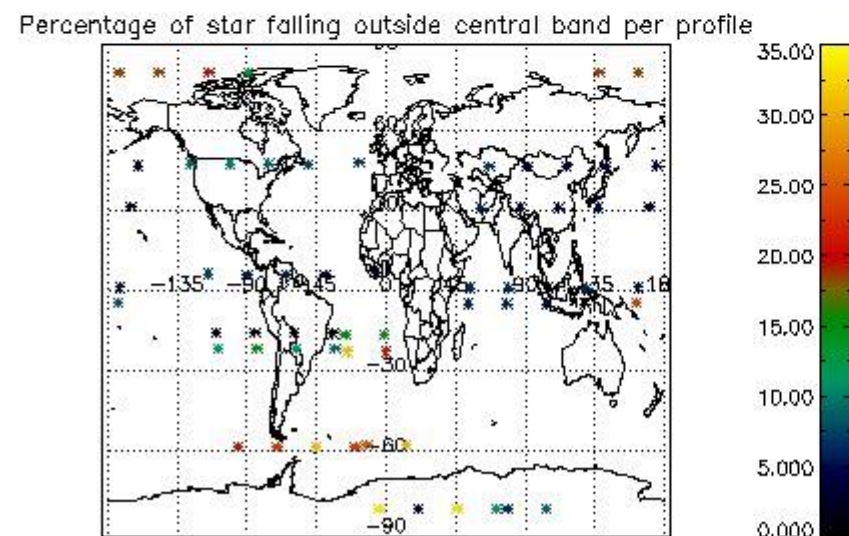
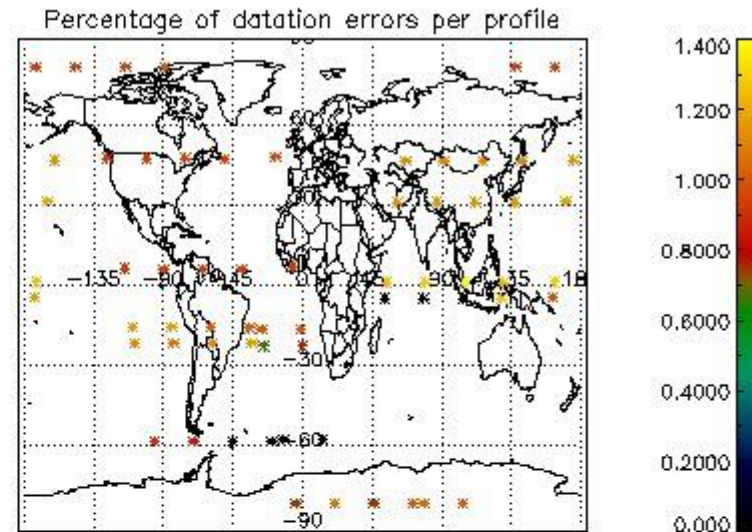
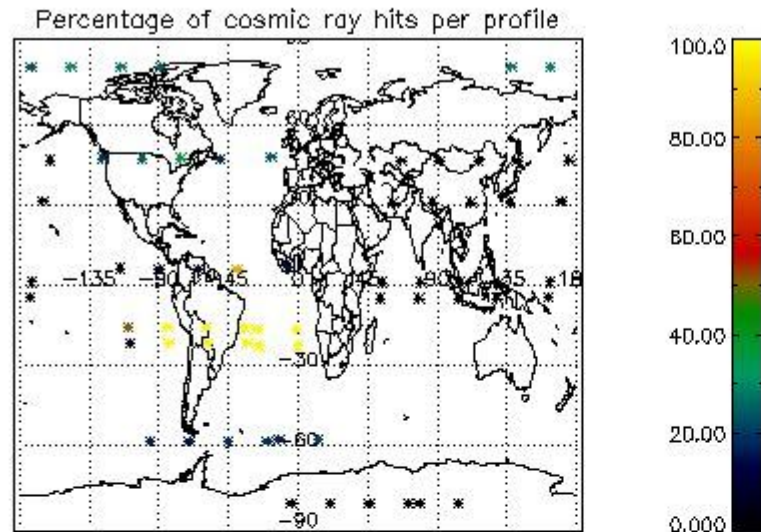
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.6250 %
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)



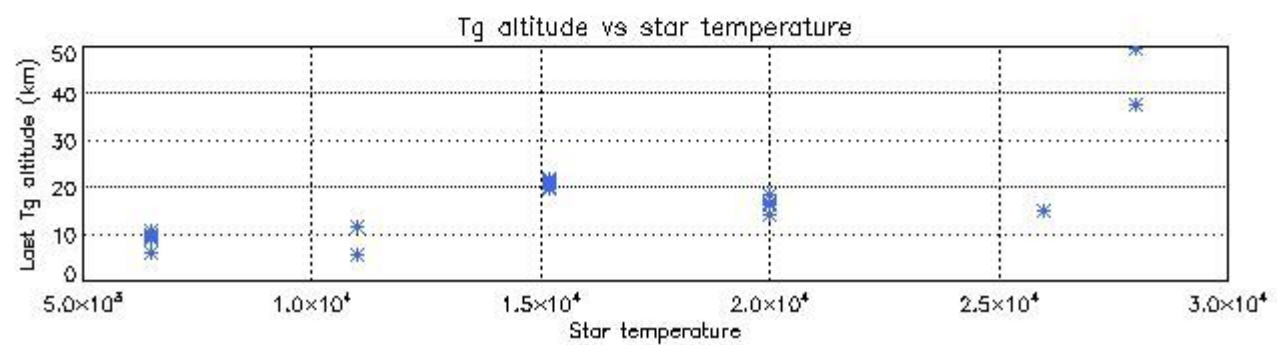
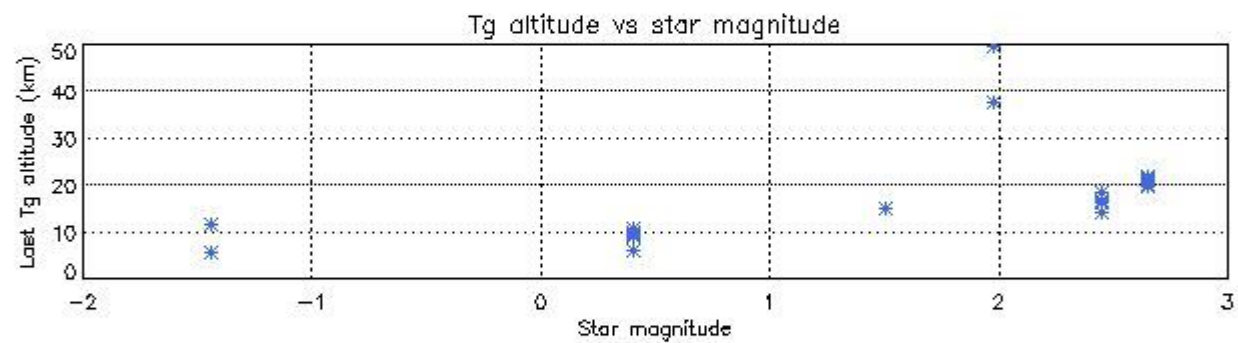
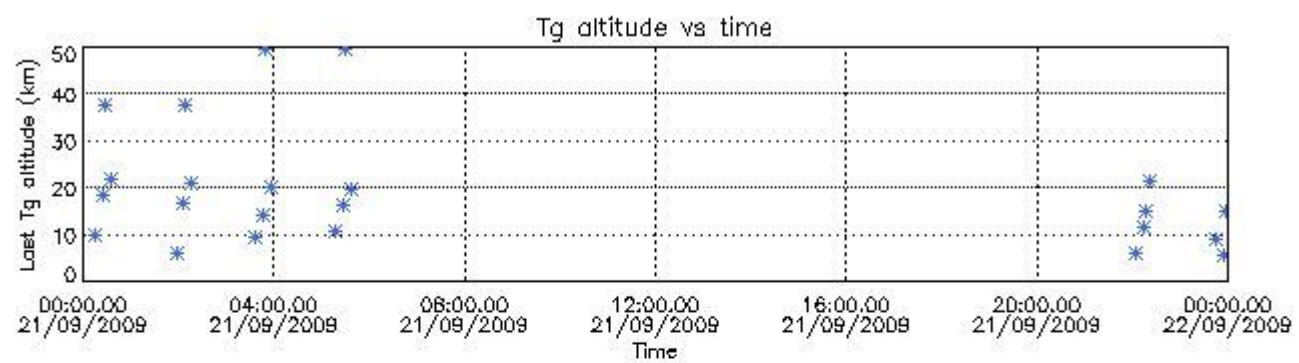
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.204	20.022	NaN
St. deviation:	12.767	5.4106	NaN
Maximum:	49.748	28.308	NaN
Minimum:	5.4365	4.1463	NaN
Number of data:	23.000	30.000	NaN

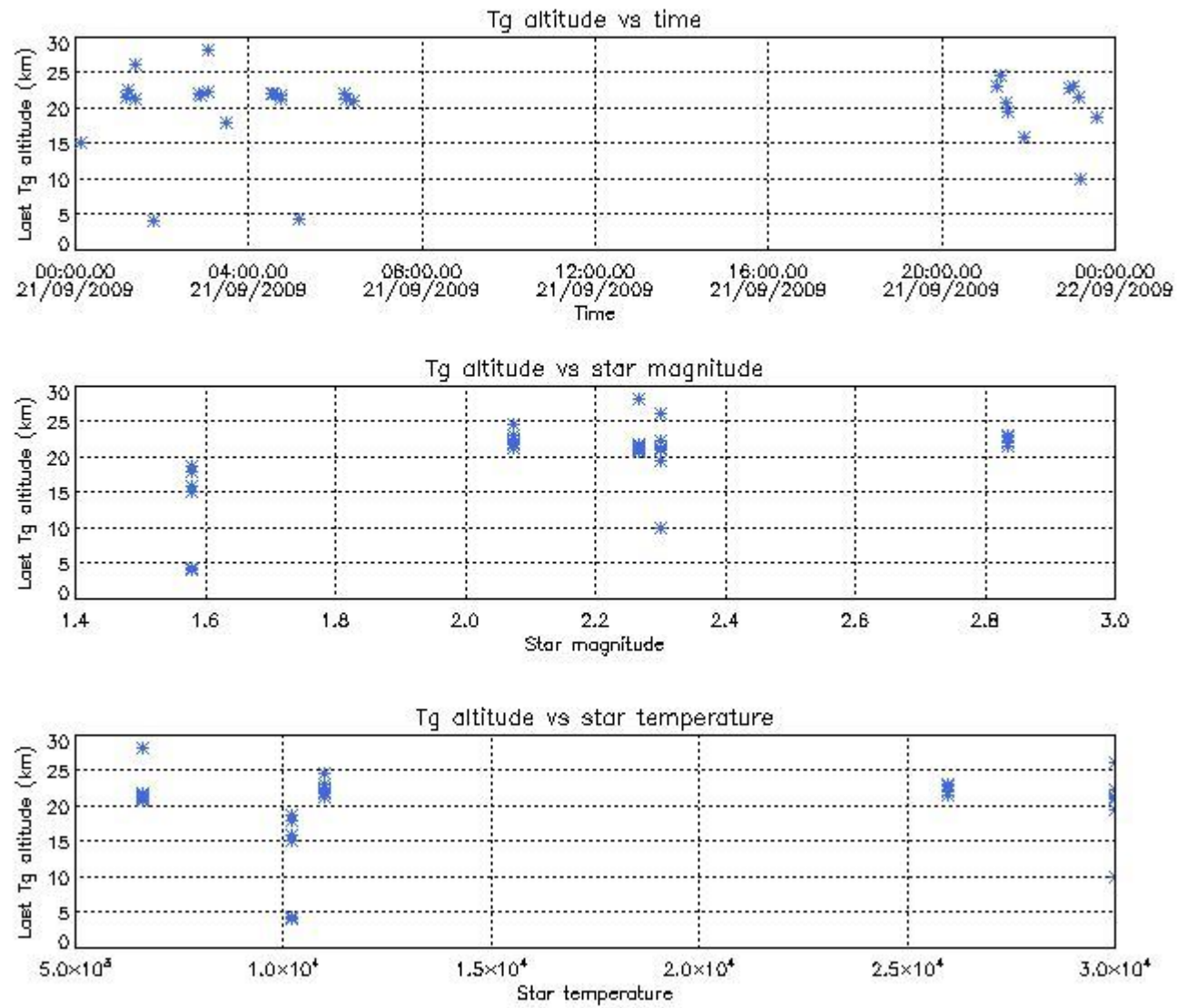
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

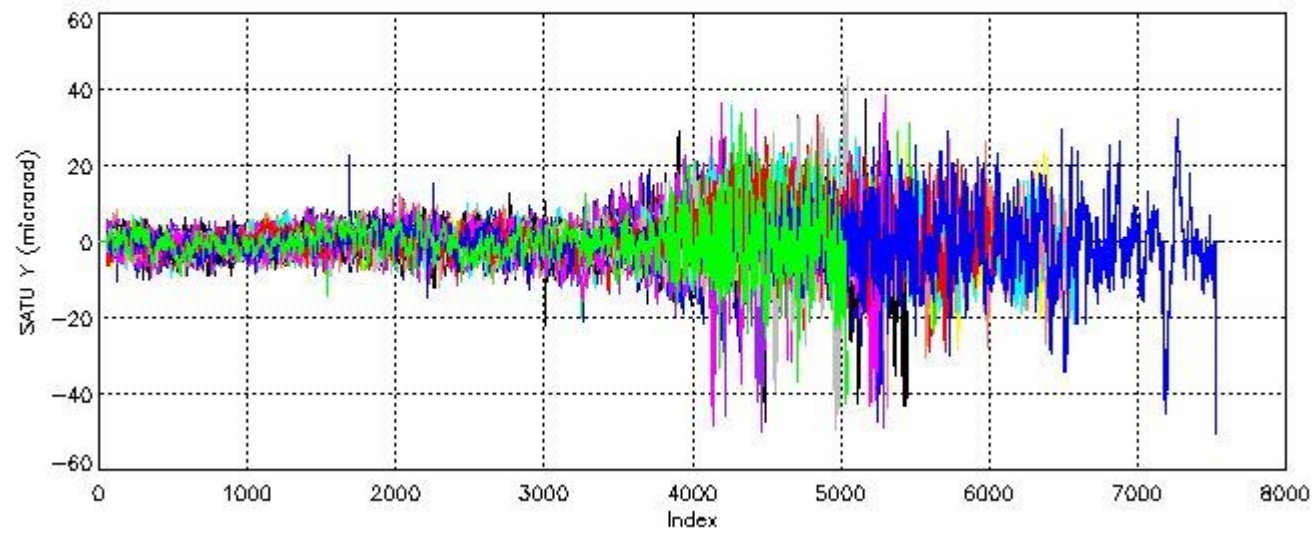
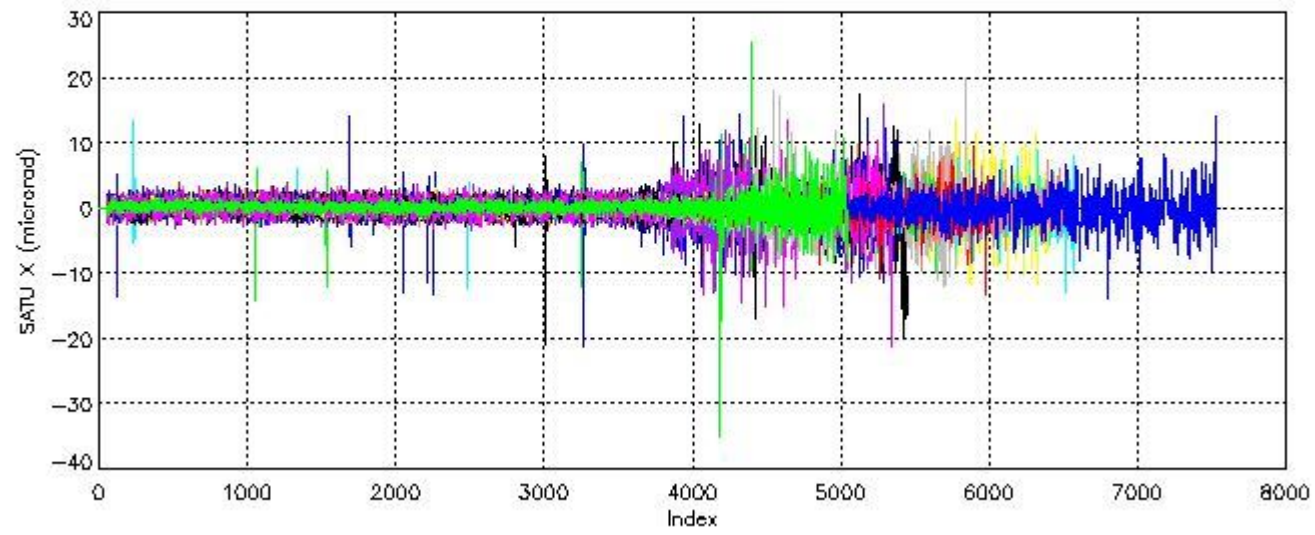


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25985	-0.78676	0.29711	-0.70891
St. deviation:	0.60877	2.1901	0.91558	2.3942
Maximum:	13.400	8.6000	6.1000	11.800
Minimum:	-14.300	-10.600	-6.8000	-15.100

Number of data:	28100.	28100.	31200.	31200.
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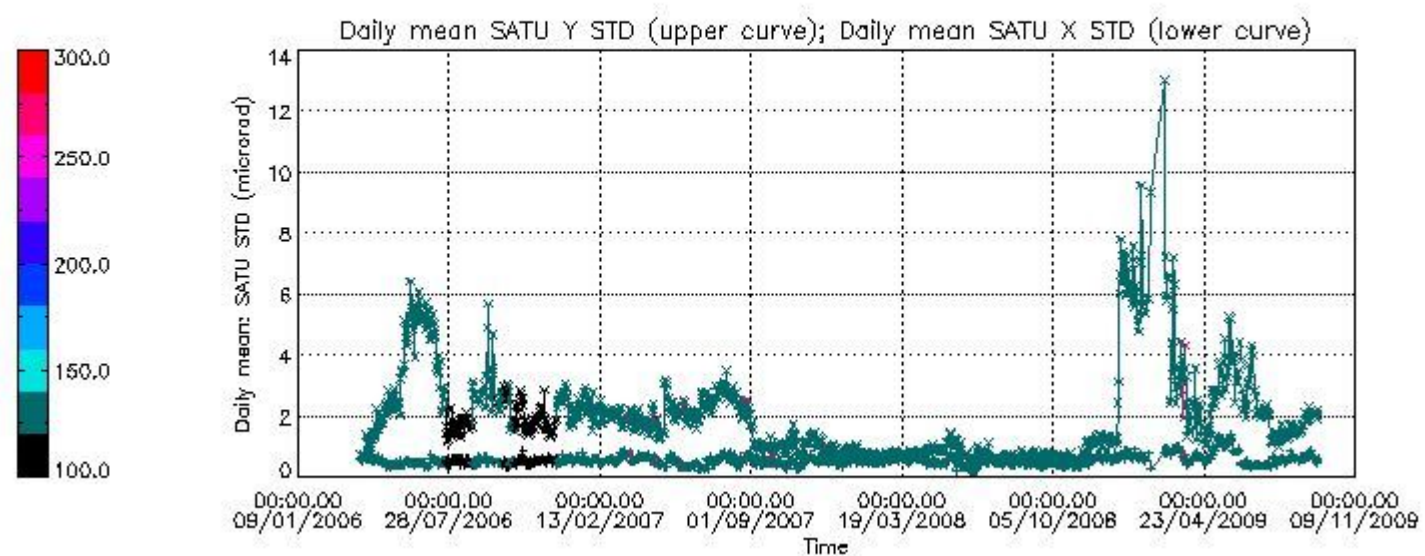
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

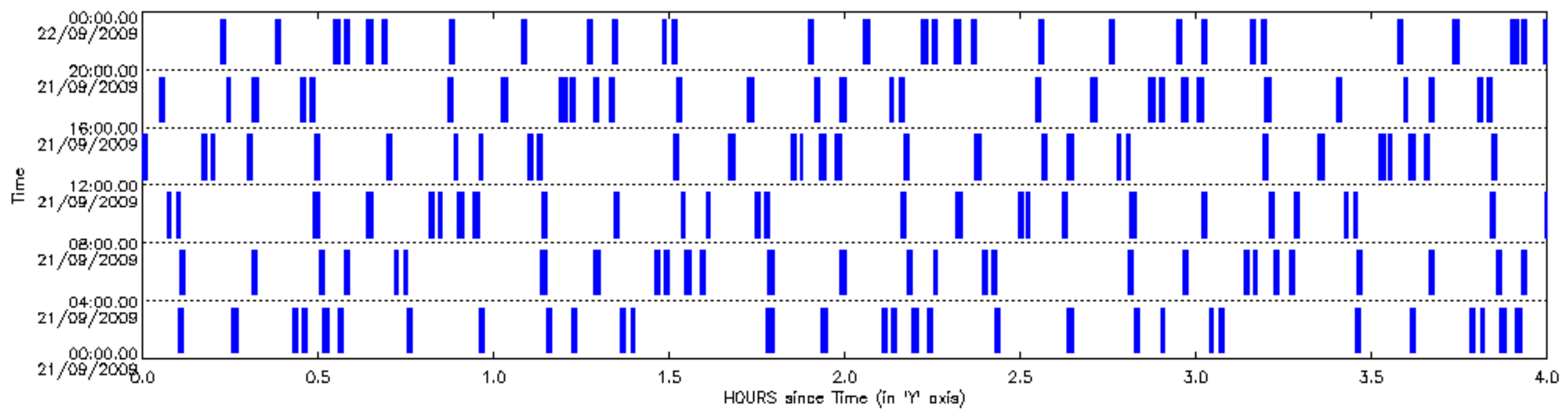
Lower curve: STD of SATU X axis

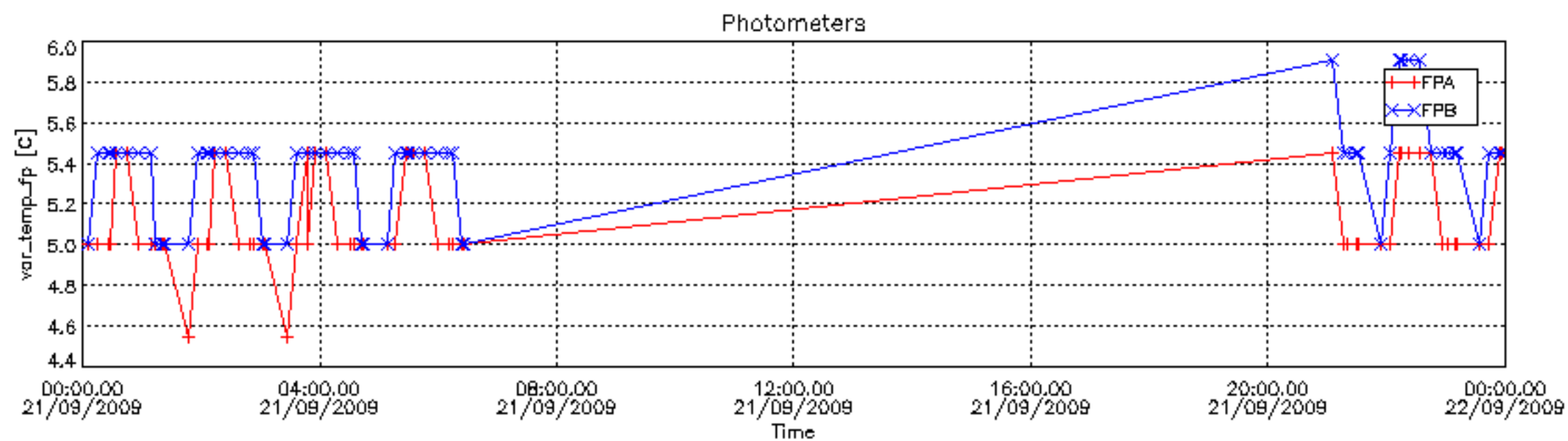
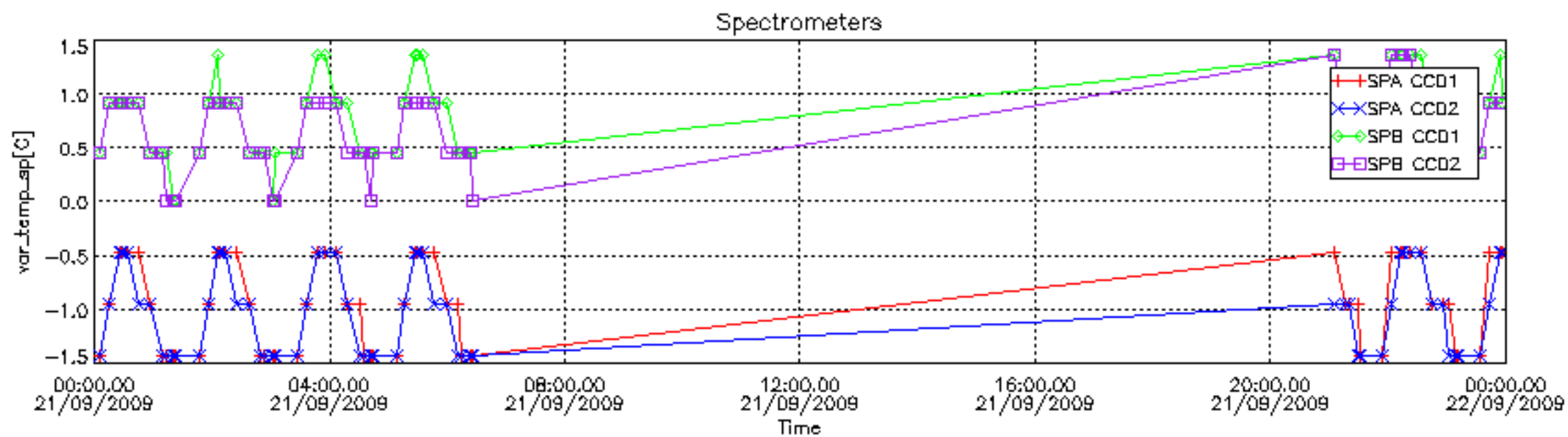


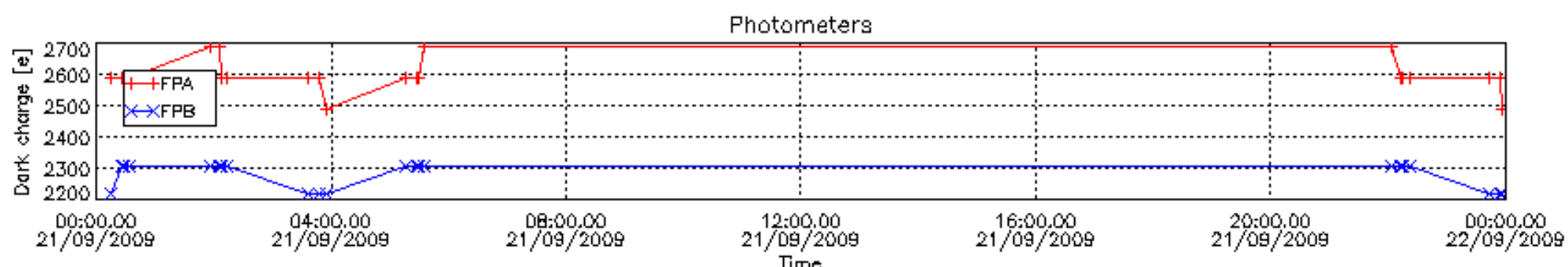
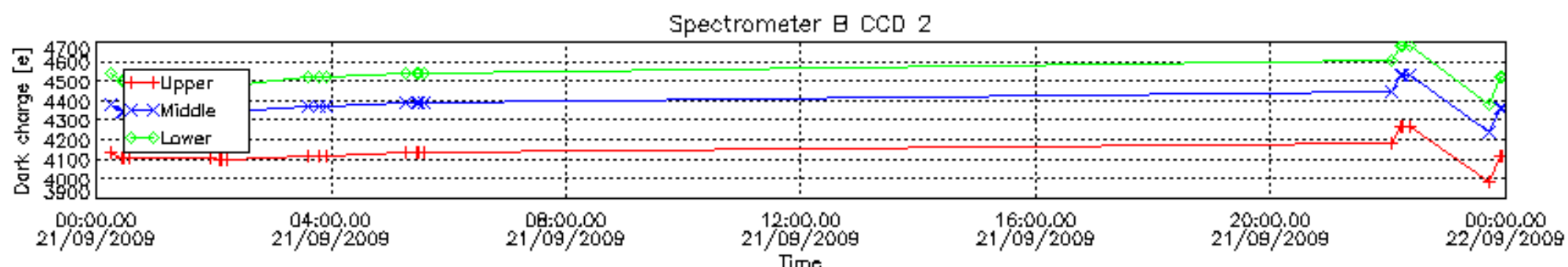
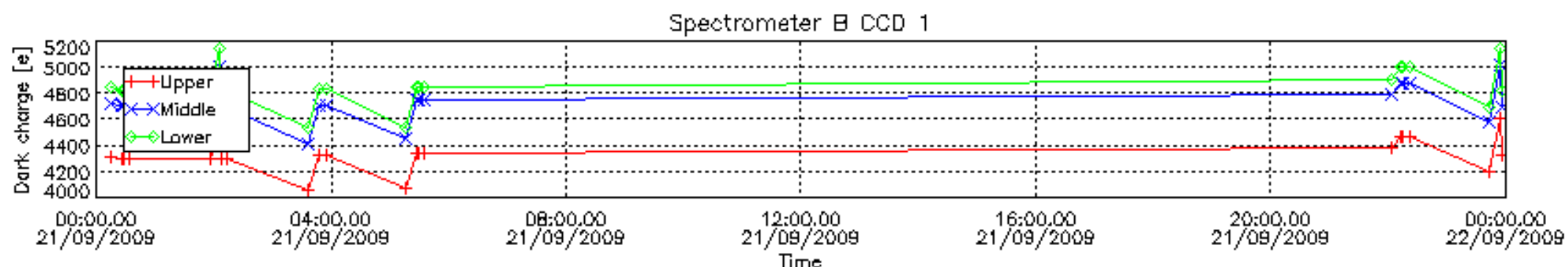
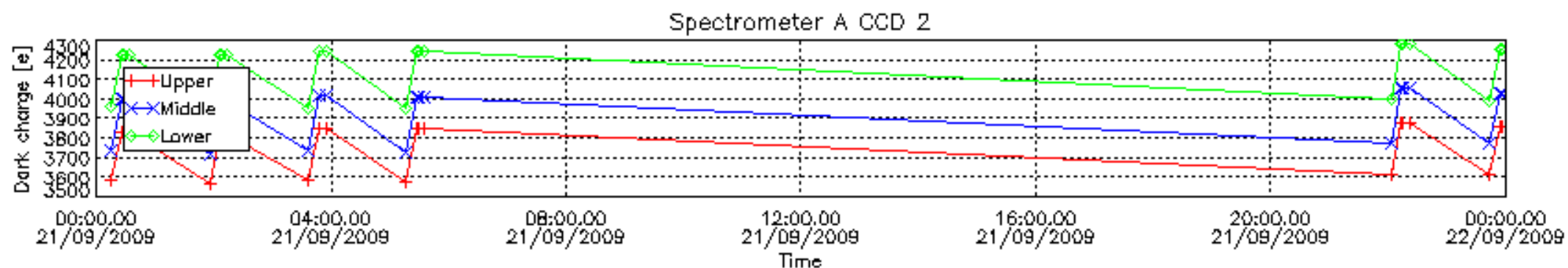
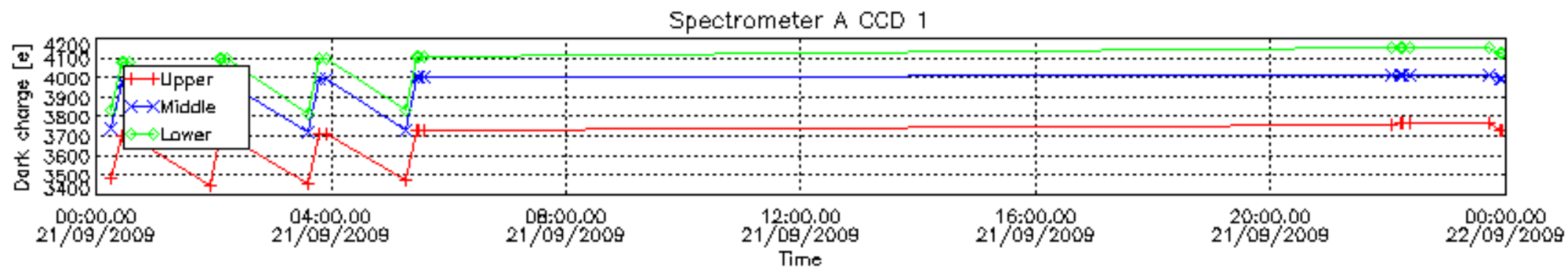
8. Auxiliary Data Files used for the production reported in section 2.4

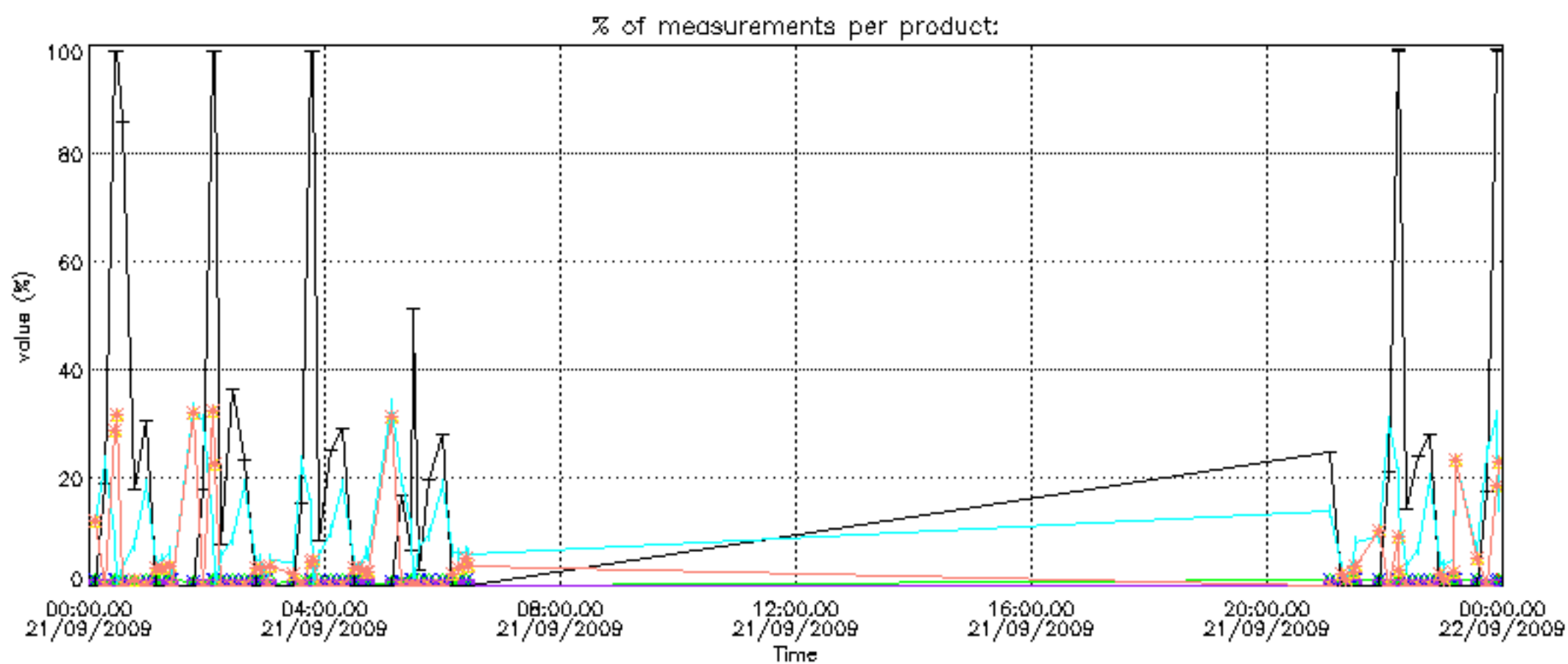
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	21-SEP-2009 00:06:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-SEP-2009 00:06:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-SEP-2009 00:06:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-SEP-2009 00:06:01
ECMWF_FILE	AUX_ECF_AXNECM20090920_064111_20090920_210000_20090921_090000	1	21-SEP-2009 00:06:01
ECMWF_FILE	AUX_ECF_AXNECM20090920_184110_20090921_030000_20090921_150000	23	21-SEP-2009 03:27:13
ECMWF_FILE	AUX_ECF_AXNECM20090921_064111_20090921_210000_20090922_090000	45	21-SEP-2009 21:04:36
OPTIONAL_ECMWF_FILE	MISSING	1	21-SEP-2009 00:06:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_204818_000063762082_00386_39518_8801.N1	1	21-SEP-2009 00:06:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090920_223953_000057382082_00387_39519_8802.N1	3	21-SEP-2009 00:25:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090921_001531_000057382082_00388_39520_8803.N1	14	21-SEP-2009 02:06:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090921_015628_000044632082_00389_39521_8804.N1	23	21-SEP-2009 03:27:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090921_031610_000054192082_00390_39522_8805.N1	34	21-SEP-2009 05:07:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090921_205329_000038252082_00401_39533_8807.N1	45	21-SEP-2009 21:04:36
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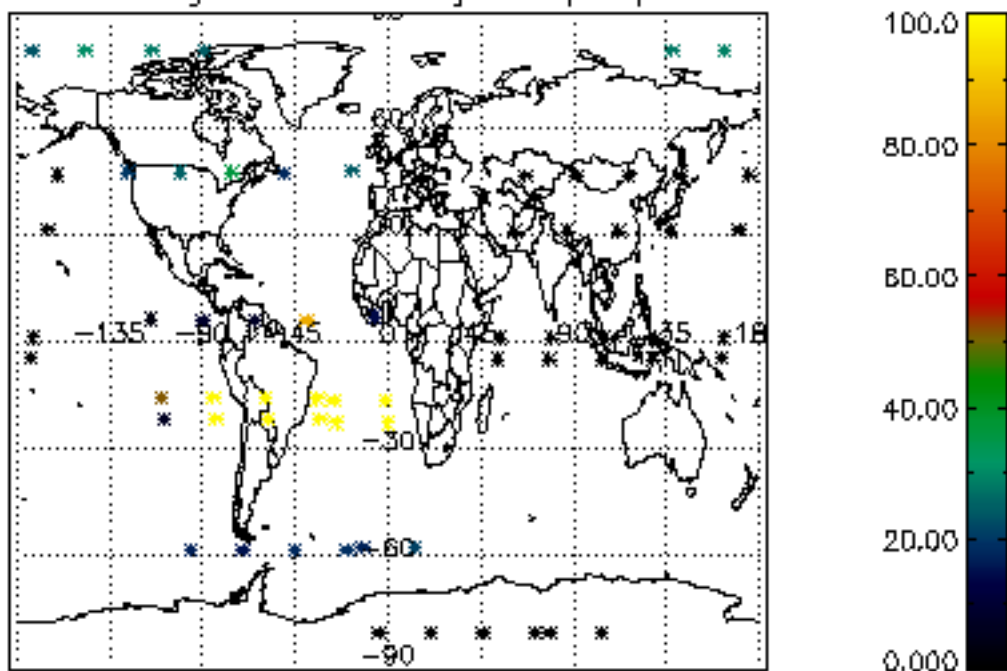




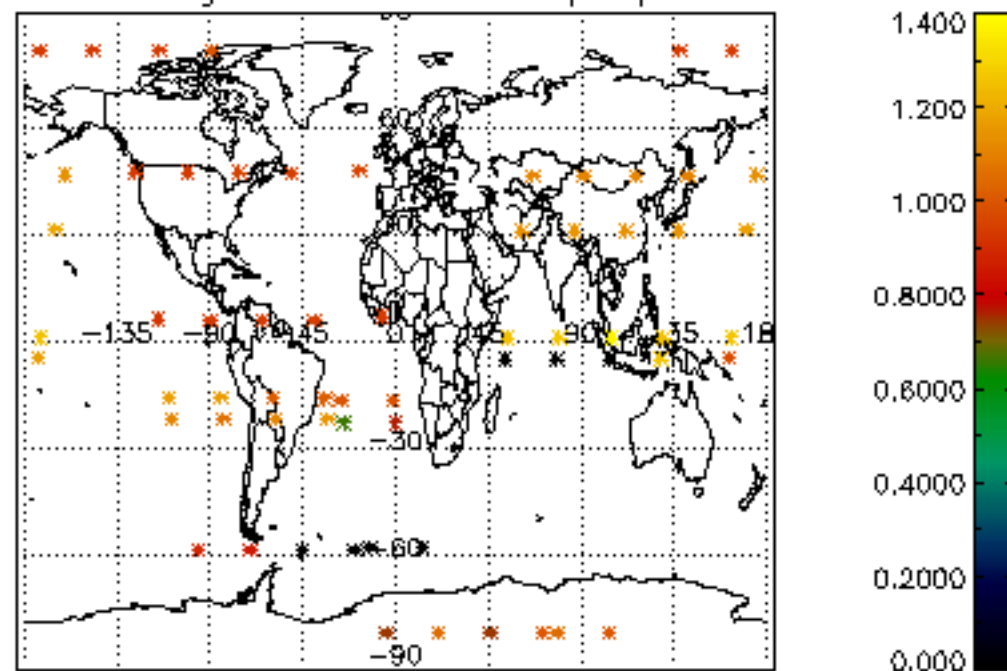




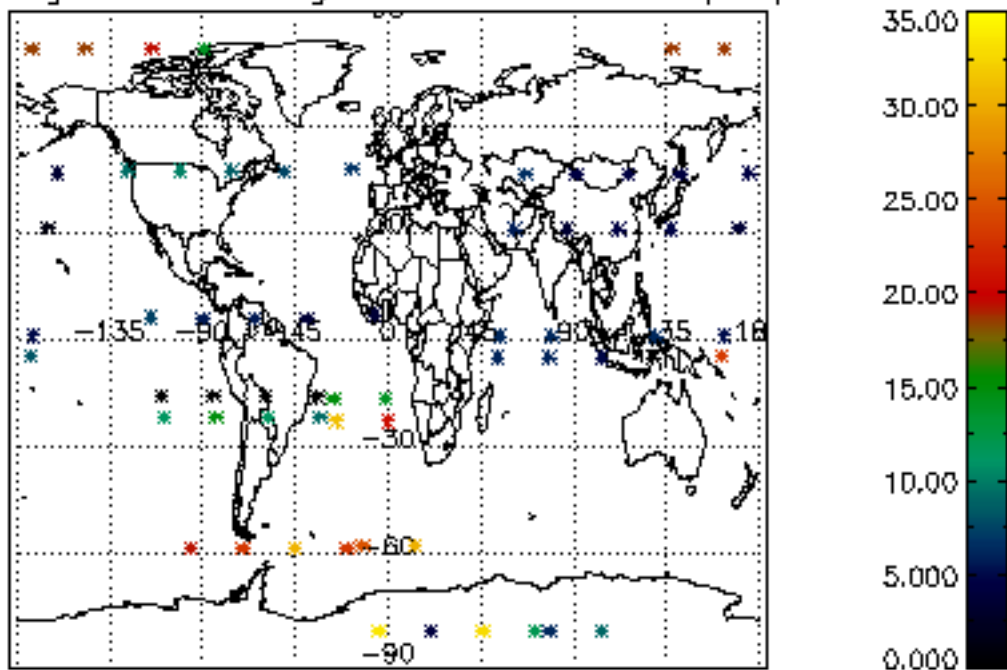
Percentage of cosmic ray hits per profile



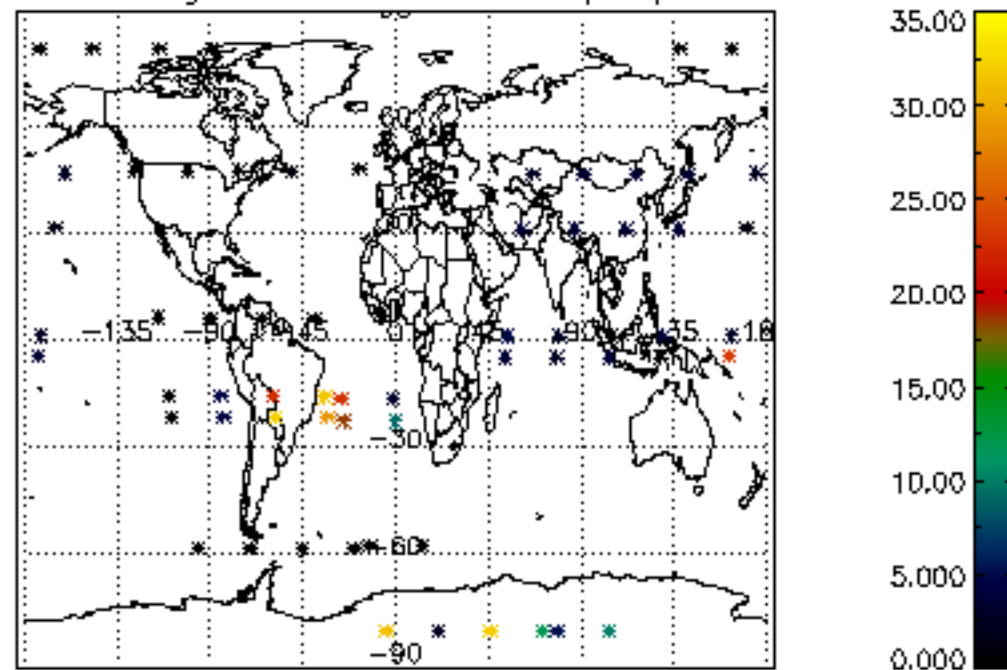
Percentage of datation errors per profile



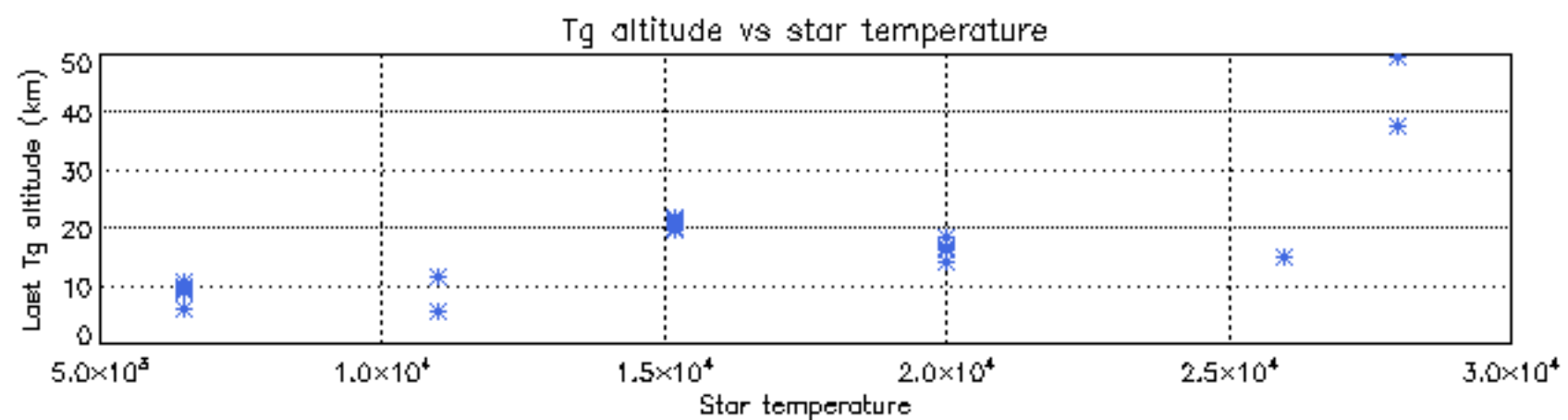
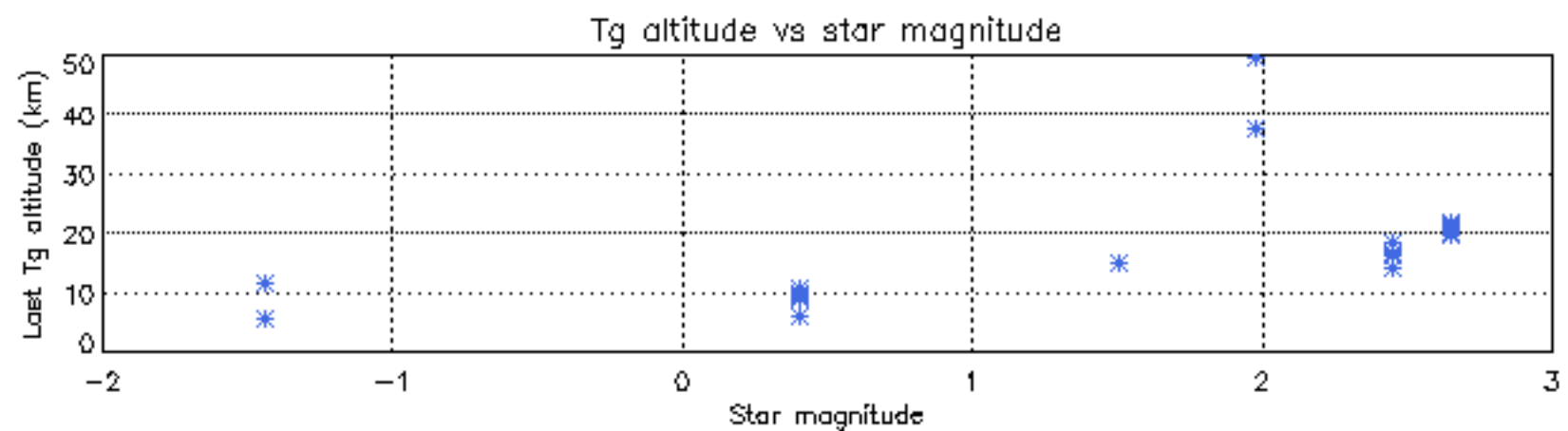
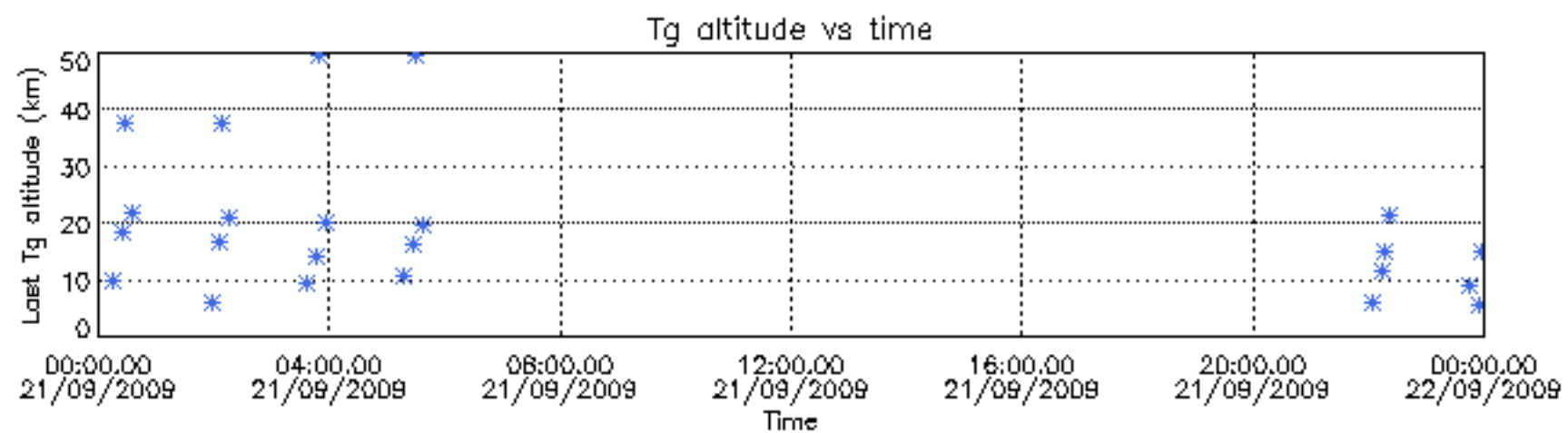
Percentage of star falling outside central band per profile



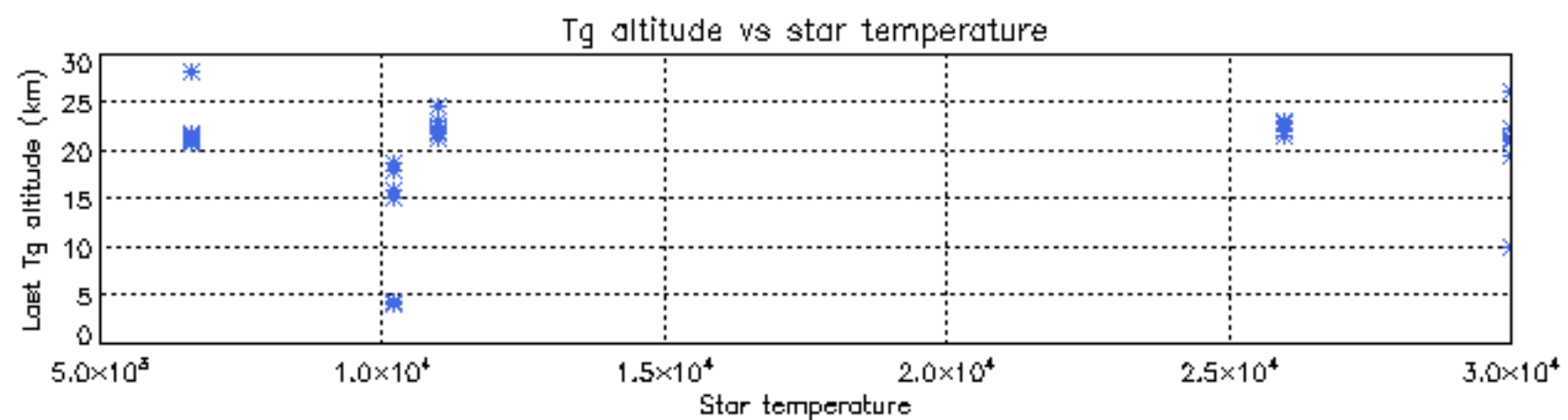
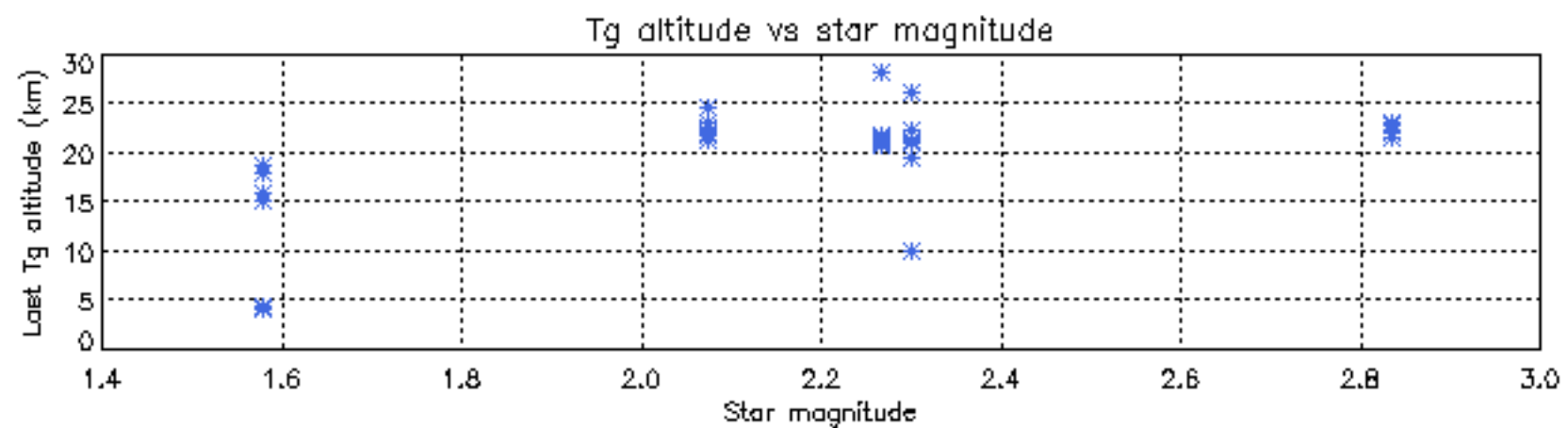
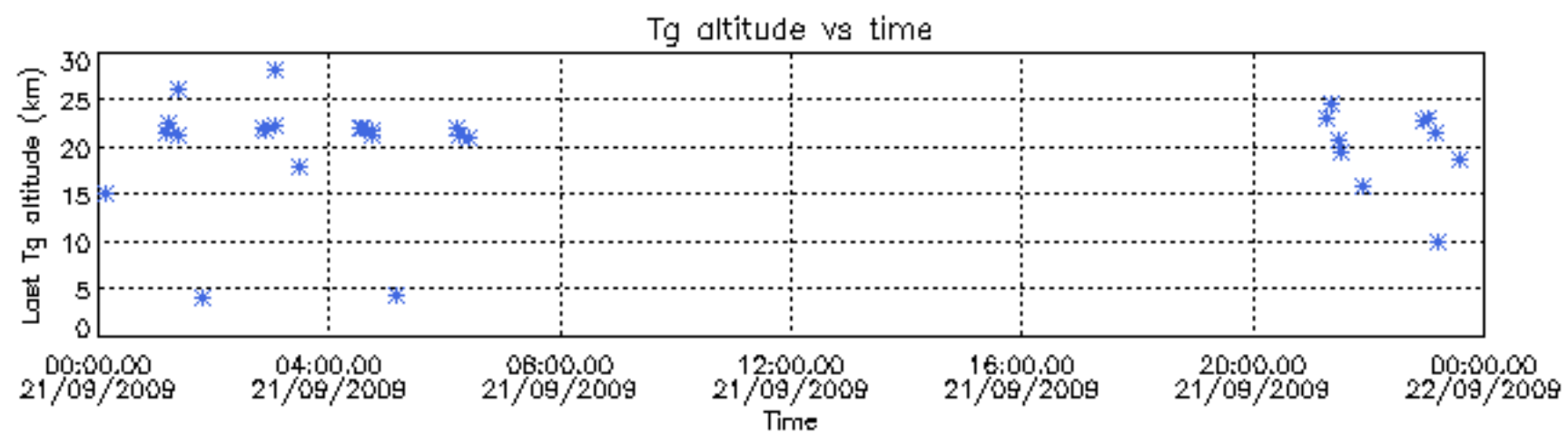
Percentage of saturation errors per profile

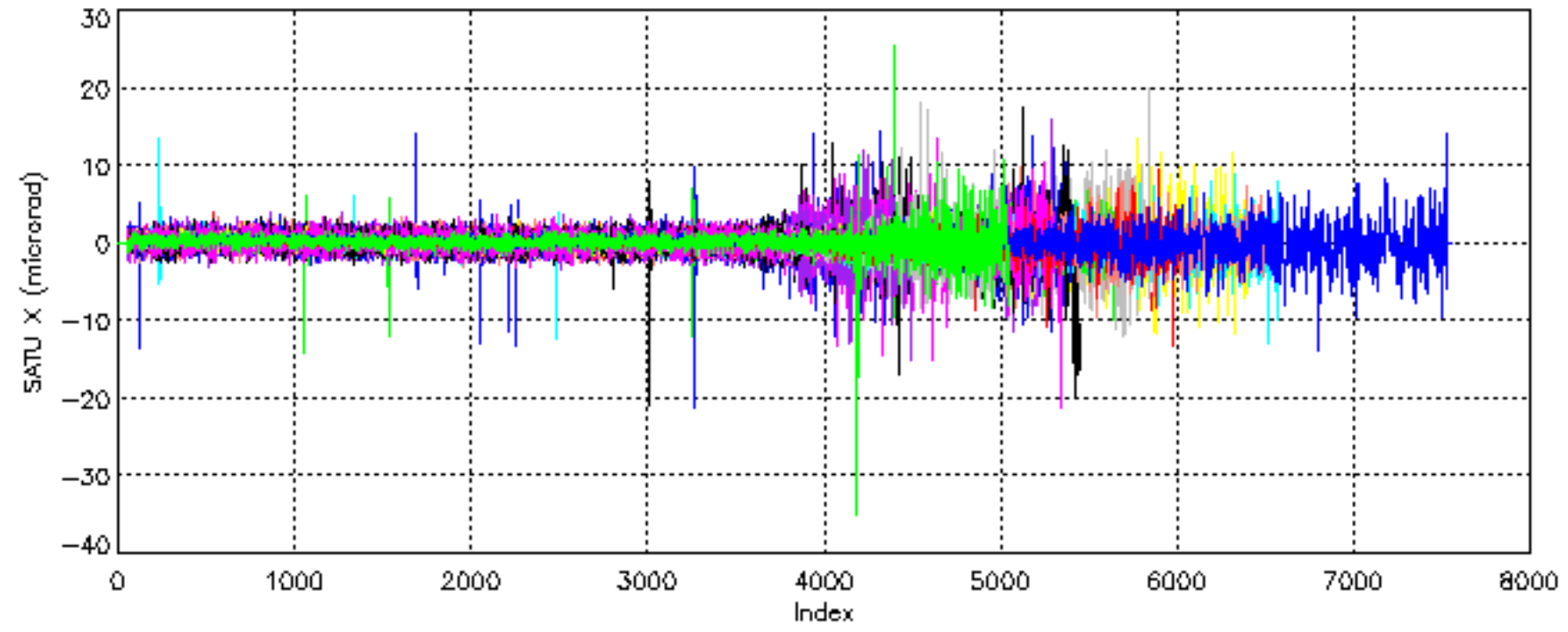


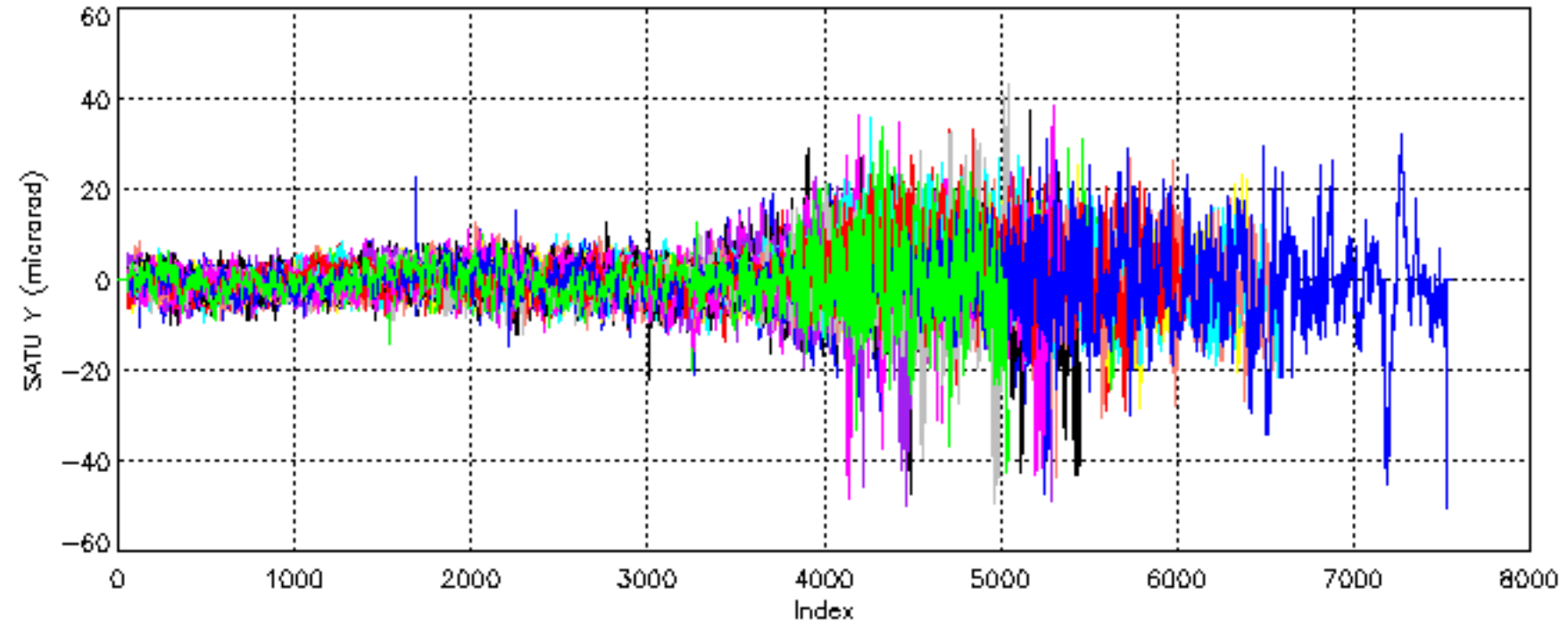
Tangent altitude at which the star is lost

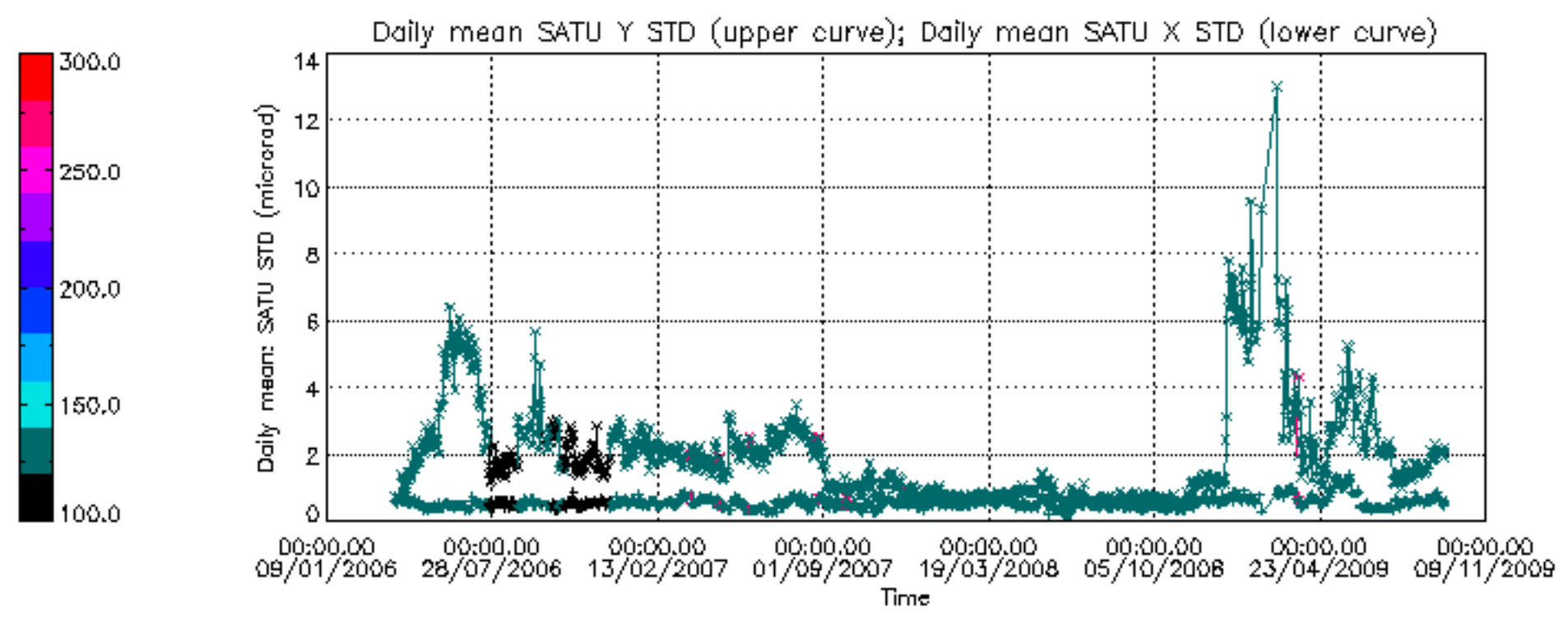


Tangent altitude at which the star is lost









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 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
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 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
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 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
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 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
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 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
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 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238
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 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
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 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
10; 4797.1; 01-SEP-2009 20:47:05; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39246
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9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
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11; 3135.5; 01-SEP-2009 22:00:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39247
12; 3262.5; 01-SEP-2009 22:02:07; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39247
13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
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15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
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 3; 2562.4; 13-SEP-2009 12:09:49; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39413
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 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
 6; 4174.8; 13-SEP-2009 12:36:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39413
 7; 4476.9; 13-SEP-2009 12:41:44; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;39413
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 5; 3155.0; 13-SEP-2009 14:00:18; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39414
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 7; 4476.9; 13-SEP-2009 14:22:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39414
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 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
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7;	4174.3;	13-SEP-2009	17:38:29;	Bright;	;	52.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	105;	0;	39416
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14;	5876.8;	13-SEP-2009	18:06:51;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39416
15;	6002.5;	13-SEP-2009	18:08:57;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39416
16;	6731.3;	13-SEP-2009	18:21:06;	Dark	;	53.5;	157;	The1Eri		;	2.91;	9300;	occ;	107;	0;	39416

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3;	2420.4;	13-SEP-2009	18:49:51;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39417
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5;	3041.8;	13-SEP-2009	19:00:12;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39417
6;	3153.0;	13-SEP-2009	19:02:03;	Bright;	;	44.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	88;	0;	39417
7;	4173.9;	13-SEP-2009	19:19:04;	Bright;	;	63.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	126;	0;	39417
8;	4477.4;	13-SEP-2009	19:24:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39417
9;	4664.3;	13-SEP-2009	19:27:15;	Dark	;	59.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	119;	0;	39417
10;	4885.5;	13-SEP-2009	19:30:56;	Dark	;	56.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	112;	0;	39417
11;	4987.2;	13-SEP-2009	19:32:38;	Dark	;	50.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	101;	0;	39417
12;	5518.5;	13-SEP-2009	19:41:29;	Dark	;	55.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	111;	0;	39417
13;	5657.7;	13-SEP-2009	19:43:48;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	39417
14;	5877.6;	13-SEP-2009	19:47:28;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39417
15;	6003.9;	13-SEP-2009	19:49:34;	Dark	;	49.5;	108;	Alp	Col	;	2.65;	15200;	occ;	99;	0;	39417
16;	6732.1;	13-SEP-2009	20:01:43;	Dark	;	55.0;	157;	The1Eri		;	2.91;	9300;	occ;	110;	0;	39417

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1;	-514.4;	14-SEP-2009	00:43:20;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	39420
2;	-375.8;	14-SEP-2009	00:45:38;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	39420
3;	-155.7;	14-SEP-2009	00:49:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39420
4;	-28.5;	14-SEP-2009	00:51:26;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39420
5;	699.4;	14-SEP-2009	01:03:33;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	39421
6;	1523.3;	14-SEP-2009	01:17:17;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39421
7;	2184.8;	14-SEP-2009	01:28:19;	Bright;	;	58.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	116;	0;	39421
8;	2419.2;	14-SEP-2009	01:32:13;	Bright;	;	40.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	80;	0;	39421
9;	2556.3;	14-SEP-2009	01:34:30;	Bright;	;	49.5;	58;	21Alp	And	;	2.07;	11000;	occ;	99;	0;	39421
10;	3040.1;	14-SEP-2009	01:42:34;	Bright;	;	37.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	74;	0;	39421
11;	3150.7;	14-SEP-2009	01:44:25;	Bright;	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39421
12;	4172.8;	14-SEP-2009	02:01:27;	Bright;	;	52.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	104;	0;	39421
13;	4478.1;	14-SEP-2009	02:06:32;	Bright;	;	44.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	89;	0;	39421
14;	4665.4;	14-SEP-2009	02:09:39;	Dark	;	63.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	126;	0;	39421
15;	4888.2;	14-SEP-2009	02:13:22;	Dark	;	40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	39421
16;	4989.0;	14-SEP-2009	02:15:03;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	39421

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1;	-513.6;	14-SEP-2009	02:23:56;	Dark	;	58.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	117;	0;	39421
2;	-375.1;	14-SEP-2009	02:26:15;	Dark	;	44.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	89;	0;	39421
3;	-154.8;	14-SEP-2009	02:29:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	39421
4;	-27.3;	14-SEP-2009	02:32:03;	Dark	;	54.5;	108;	Alp	Col	;	2.65;	15200;	occ;	109;	0;	39421
5;	700.4;	14-SEP-2009	02:44:10;	Dark	;	54.0;	157;	The1Eri		;	2.91;	9300;	occ;	108;	0;	39422
6;	1523.6;	14-SEP-2009	02:57:53;	Dark	;	58.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	116;	0;	39422
7;	2184.5;	14-SEP-2009	03:08:54;	Bright;	;	41.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	82;	0;	39422
8;	2418.8;	14-SEP-2009	03:12:49;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39422
9;	2555.5;	14-SEP-2009	03:15:05;	Bright;	;	72.0;	58;	21Alp	And	;	2.07;	11000;	occ;	144;	0;	39422
10;	3039.6;	14-SEP-2009	03:23:09;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39422
11;	3150.2;	14-SEP-2009	03:25:00;	Bright;	;	42.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	85;	0;	39422

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1;	-1863.4;	14-SEP-2009	03:42:02;	Bright;	;	47.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	94;	0;	39422
2;	-1557.9;	14-SEP-2009	03:47:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39422
3;	-1370.3;	14-SEP-2009	03:50:16;	Dark	;	60.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	121;	0;	39422
4;	-1147.2;	14-SEP-2009	03:53:59;	Dark	;	32.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	64;	0;	39422

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5; -1046.4; 14-SEP-2009 03:55:39; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39422
6; -512.6; 14-SEP-2009 04:04:33; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39422
7; -374.4; 14-SEP-2009 04:06:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39422
8; -153.8; 14-SEP-2009 04:10:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39422
9; -26.2; 14-SEP-2009 04:12:40; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39422
10; 701.5; 14-SEP-2009 04:24:47; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39423
11; 1523.9; 14-SEP-2009 04:38:30; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39423
12; 2184.0; 14-SEP-2009 04:49:30; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39423
13; 2418.6; 14-SEP-2009 04:53:24; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;39423
14; 2554.9; 14-SEP-2009 04:55:41; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39423
15; 3038.9; 14-SEP-2009 05:03:45; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39423
16; 3149.5; 14-SEP-2009 05:05:35; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39423
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1; -1863.7; 14-SEP-2009 05:22:38; Bright; 47.0; 42; 34Bet Aur ; 1.90; 10200;occ; 94; 0;39423
2; -1557.7; 14-SEP-2009 05:27:44; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;39423
3; -1369.8; 14-SEP-2009 05:30:52; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39423
4; -1146.6; 14-SEP-2009 05:34:35; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39423
5; -1046.1; 14-SEP-2009 05:36:16; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39423
6; -511.6; 14-SEP-2009 05:45:10; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39423
7; -373.7; 14-SEP-2009 05:47:28; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39423
8; -152.9; 14-SEP-2009 05:51:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39423
9; -24.8; 14-SEP-2009 05:53:17; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39423
10; 702.3; 14-SEP-2009 06:05:24; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39424
11; 1523.9; 14-SEP-2009 06:19:06; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39424
12; 2183.9; 14-SEP-2009 06:30:06; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39424
13; 2284.9; 14-SEP-2009 06:31:47; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39424
14; 2418.3; 14-SEP-2009 06:34:00; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;39424
15; 2554.1; 14-SEP-2009 06:36:16; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39424
16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
17; 3148.9; 14-SEP-2009 06:46:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39424
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2; 2182.4; 14-SEP-2009 19:54:52; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39432
3; 2279.8; 14-SEP-2009 19:56:29; Bright; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;39432
4; 2416.0; 14-SEP-2009 19:58:45; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39432
5; 2548.0; 14-SEP-2009 20:00:57; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39432
6; 3034.7; 14-SEP-2009 20:09:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39432
7; 3144.4; 14-SEP-2009 20:10:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39432
8; 4479.4; 14-SEP-2009 20:33:09; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39432
9; 4669.2; 14-SEP-2009 20:36:18; Dark ; 66.0; 170; 27Eps Gem ; 3.00; 9700;occ; 132; 0;39432
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3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
4; -14.1; 14-SEP-2009 20:58:51; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39432
5; 711.7; 14-SEP-2009 21:10:57; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39433
6; 1525.1; 14-SEP-2009 21:24:30; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39433
7; 2182.2; 14-SEP-2009 21:35:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39433
8; 2279.0; 14-SEP-2009 21:37:04; Bright; 50.0; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39433
9; 2415.6; 14-SEP-2009 21:39:21; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39433
10; 2547.0; 14-SEP-2009 21:41:32; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39433
11; 3034.3; 14-SEP-2009 21:49:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39433
12; 3143.9; 14-SEP-2009 21:51:29; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39433
13; 4479.3; 14-SEP-2009 22:13:44; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;39433
14; 4669.5; 14-SEP-2009 22:16:55; Dark ; 64.5; 170; 27Eps Gem ; 3.00; 9700;occ; 129; 0;39433
15; 4995.1; 14-SEP-2009 22:22:20; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39433
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2; -365.4; 14-SEP-2009 22:33:36; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39433
3; -143.9; 14-SEP-2009 22:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39433
4; -13.0; 14-SEP-2009 22:39:28; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39433
5; 712.9; 14-SEP-2009 22:51:34; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39434
6; 1525.1; 14-SEP-2009 23:05:06; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39434
7; 2181.9; 14-SEP-2009 23:16:03; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;39434
8; 2278.3; 14-SEP-2009 23:17:39; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39434
9; 2415.5; 14-SEP-2009 23:19:57; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39434
10; 2546.5; 14-SEP-2009 23:22:08; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39434

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12; 3143.1; 14-SEP-2009 23:32:04; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39434
13; 4479.6; 14-SEP-2009 23:54:21; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39434
14; 4669.9; 14-SEP-2009 23:57:31; Dark ; 65.0; 170; 27Eps Gem ; 3.00; 9700;occ; 130; 0;39434
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 3;-1369.5; 14-SEP-2009 07:11:28; Dark ; 61.5; 170; 27Eps Gem ; 3.00; 9700;occ; 123; 0;39424
 4;-1045.5; 14-SEP-2009 07:16:52; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39424
 5; -510.6; 14-SEP-2009 07:25:47; Dark ; 54.5; 1; 9Alp CMA ; -1.44; 11000;occ; 109; 0;39424
 6; -372.6; 14-SEP-2009 07:28:05; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;39424
 7; -152.0; 14-SEP-2009 07:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39424
 8; -23.9; 14-SEP-2009 07:33:54; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;39424
 9; 703.5; 14-SEP-2009 07:46:01; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39425
10; 1524.0; 14-SEP-2009 07:59:42; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 2; 2284.2; 14-SEP-2009 08:12:22; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39425
 3; 2417.9; 14-SEP-2009 08:14:36; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39425
 4; 2553.3; 14-SEP-2009 08:16:51; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39425
 5; 3038.2; 14-SEP-2009 08:24:56; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39425
 6; 3148.3; 14-SEP-2009 08:26:46; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39425
 7; 4171.7; 14-SEP-2009 08:43:49; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;39425
 8; 4478.4; 14-SEP-2009 08:48:56; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39425
 9; 4666.8; 14-SEP-2009 08:52:05; Dark ; 58.5; 170; 27Eps Gem ; 3.00; 9700;occ; 117; 0;39425
10; 4991.0; 14-SEP-2009 08:57:29; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;39425
11; 5526.4; 14-SEP-2009 09:06:24; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39425
12; 5664.2; 14-SEP-2009 09:08:42; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;39425
13; 5884.7; 14-SEP-2009 09:12:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39425
14; 6013.3; 14-SEP-2009 09:14:31; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39425
15; 6740.7; 14-SEP-2009 09:26:39; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39425
16; 7560.0; 14-SEP-2009 09:40:18; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 3; 2417.9; 14-SEP-2009 09:55:12; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39426
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 5; 3037.7; 14-SEP-2009 10:05:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39426
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 7; 4171.4; 14-SEP-2009 10:24:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39426
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13; 5885.6; 14-SEP-2009 10:52:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39426
14; 6741.7; 14-SEP-2009 11:07:15; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39426
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 3; 2417.6; 14-SEP-2009 11:35:47; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39427
 4; 2551.9; 14-SEP-2009 11:38:01; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39427
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10; 4991.8; 14-SEP-2009 12:18:41; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;39427
11; 5528.3; 14-SEP-2009 12:27:38; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39427
12; 5665.5; 14-SEP-2009 12:29:55; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;39427
13; 5886.5; 14-SEP-2009 12:33:36; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39427
14; 6742.7; 14-SEP-2009 12:47:52; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39427
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 6; 3146.8; 14-SEP-2009 13:28:32; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39428
 7; 4170.8; 14-SEP-2009 13:45:36; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39428
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 9; 4667.9; 14-SEP-2009 13:53:53; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39428
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 4; 2417.1; 14-SEP-2009 14:56:58; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39429
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 7; 3146.3; 14-SEP-2009 15:09:08; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39429
 8; 4170.6; 14-SEP-2009 15:26:12; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39429
 9; 4478.9; 14-SEP-2009 15:31:20; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39429
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 11; 4993.3; 14-SEP-2009 15:39:55; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;39429
 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429
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 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
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 16; 6744.9; 14-SEP-2009 16:09:06; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39429

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 3; 2281.1; 14-SEP-2009 16:35:18; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39430
 4; 2416.7; 14-SEP-2009 16:37:34; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;39430
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 6; 3035.7; 14-SEP-2009 16:47:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39430
 7; 3145.6; 14-SEP-2009 16:49:43; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39430
 8; 4170.5; 14-SEP-2009 17:06:48; Bright; 26.0; 42; 34Bet Aur ; 1.90; 10200;occ; 52; 0;39430
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 10; 4668.7; 14-SEP-2009 17:15:06; Dark ; 59.5; 170; 27Eps Gem ; 3.00; 9700;occ; 119; 0;39430
 11; 4993.7; 14-SEP-2009 17:20:31; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;39430
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 13; 5668.1; 14-SEP-2009 17:31:45; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39430
 14; 5889.4; 14-SEP-2009 17:35:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39430
 15; 6019.5; 14-SEP-2009 17:37:37; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39430
 16; 6745.9; 14-SEP-2009 17:49:43; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39430

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 3; 2280.3; 14-SEP-2009 18:15:54; Bright; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;39431
 4; 2416.5; 14-SEP-2009 18:18:10; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39431
 5; 2548.8; 14-SEP-2009 18:20:22; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39431
 6; 3035.3; 14-SEP-2009 18:28:29; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39431
 7; 3144.9; 14-SEP-2009 18:30:18; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39431
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 9; 4479.3; 14-SEP-2009 18:52:33; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39431
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 13; 5669.0; 14-SEP-2009 19:12:22; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;39431
 14; 5890.3; 14-SEP-2009 19:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39431
 15; 6020.5; 14-SEP-2009 19:18:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39431
 16; 6747.1; 14-SEP-2009 19:30:20; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39431

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6; 1525.4; 15-SEP-2009 00:45:42; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39435
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9; 2415.4; 15-SEP-2009 01:00:32; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39435
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6; 1525.5; 15-SEP-2009 02:26:18; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39436
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6; -141.1; 15-SEP-2009 03:39:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39436
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8; 716.1; 15-SEP-2009 03:53:25; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39437
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13; 2543.6; 15-SEP-2009 06:04:28; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;39438
14; 3032.0; 15-SEP-2009 06:12:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39438
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5; 3017.2; 17-SEP-2009 13:32:07; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39471
6; 3122.4; 17-SEP-2009 13:33:52; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39471

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 9; 2991.0; 22-SEP-2009 02:30:35; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39536
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