

GOMOS Daily Report 04-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	06JUN2009 04:31:56
Data source version	GOMOS/5.00
Start time of products	04JUN2009 00:06:16
Stop time of products	04JUN2009 06:41:17
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

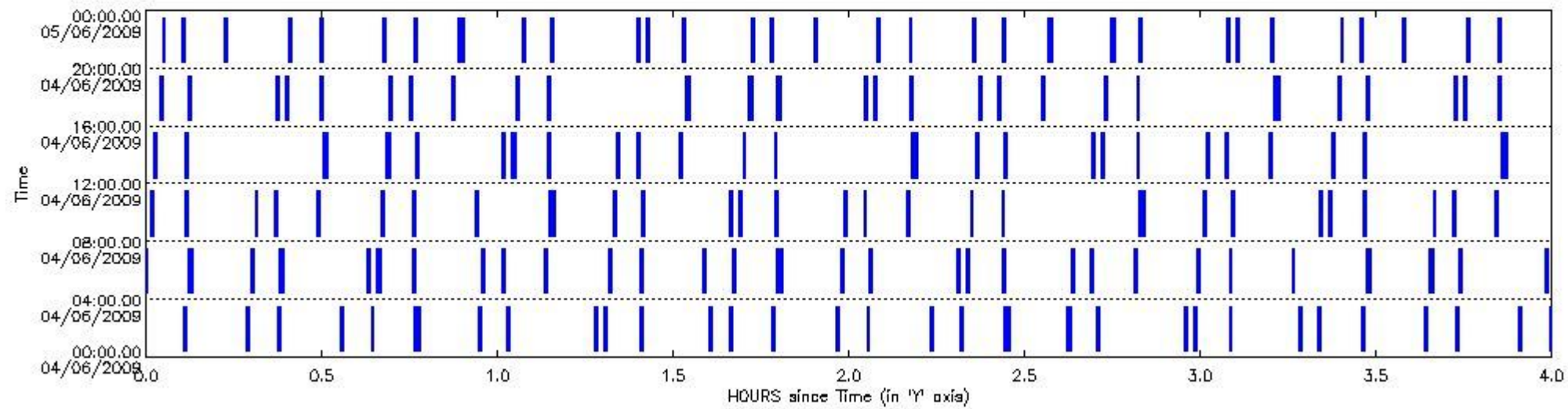
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

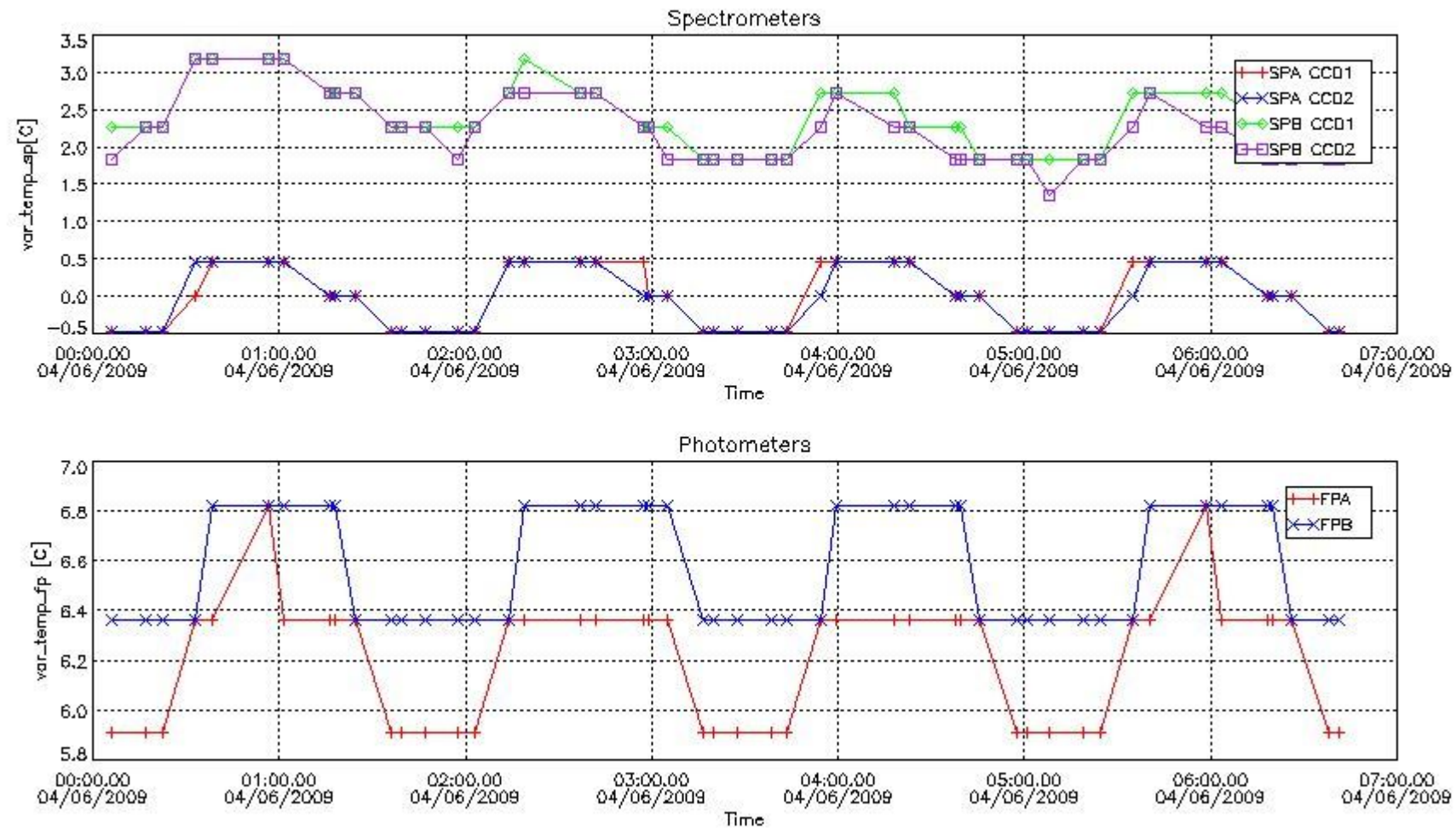
No missing products.

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_1PNPDE20090604_000616_000000322079_00331_37960_3941.N1	04-JUN-2009 00:06:16	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37960	No
2	GOM_TRA_1PNPDE20090604_001708_000000312079_00331_37960_3942.N1	04-JUN-2009 00:17:08	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	37960	No
3	GOM_TRA_1PNPDE20090604_002231_000000252079_00331_37960_3943.N1	04-JUN-2009 00:22:31	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37960	No
4	GOM_TRA_1PNPDE20090604_003311_000000292079_00331_37960_3944.N1	04-JUN-2009 00:33:11	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37960	No
5	GOM_TRA_1PNPDE20090604_003822_000000302079_00331_37960_3945.N1	04-JUN-2009 00:38:22	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37960	No
6	GOM_TRA_1PNPDE20090604_005637_000000402079_00331_37960_4112.N1	04-JUN-2009 00:56:37	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37960	No
7	GOM_TRA_1PNPDE20090604_010133_000000342079_00332_37961_4113.N1	04-JUN-2009 01:01:33	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37961	No
8	GOM_TRA_1PNPDE20090604_011631_000000332079_00332_37961_4114.N1	04-JUN-2009 01:16:31	Twilight	33.000	38	20Eps Sgr	1.8360	11000.	66	37961	No
9	GOM_TRA_1PNPDE20090604_011810_000000352079_00332_37961_4115.N1	04-JUN-2009 01:18:10	Twilight	34.500	116	19Del Sgr	2.7000	4100.0	69	37961	No
10	GOM_TRA_1PNPDE20090604_012417_000000302079_00332_37961_4116.N1	04-JUN-2009 01:24:17	Twilight	30.000	86	35Eta Oph	2.4300	10200.	60	37961	No
11	GOM_TRA_1PNPDE20090604_013610_000000302079_00332_37961_4117.N1	04-JUN-2009 01:36:10	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37961	No
12	GOM_TRA_1PNPDE20090604_013930_000000312079_00332_37961_4118.N1	04-JUN-2009 01:39:30	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37961	No

13	GOM_TRA_1PNPDE20090604_014651_00000322079_00332_37961_4119.N1	04-JUN-2009 01:46:51	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37961	No
14	GOM_TRA_1PNPDE20090604_015744_00000312079_00332_37961_4120.N1	04-JUN-2009 01:57:44	Twi_and_stray	30.500	89	5Alp Cep	2.4510	8000.0	61	37961	No
15	GOM_TRA_1PNPDE20090604_020306_00000252079_00332_37961_4121.N1	04-JUN-2009 02:03:06	Twi_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	37961	No
16	GOM_TRA_1PNPDE20090604_021347_00000282079_00332_37961_4122.N1	04-JUN-2009 02:13:47	Twi_and_stray	28.000	58	21Alp And	2.0730	11000.	56	37961	No
17	GOM_TRA_1PNPDE20090604_021858_00000302079_00332_37961_4123.N1	04-JUN-2009 02:18:58	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37961	No
18	GOM_TRA_1PNPDE20090604_023714_00000402079_00332_37961_4271.N1	04-JUN-2009 02:37:14	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37961	No
19	GOM_TRA_1PNPDE20090604_024209_00000342079_00333_37962_4272.N1	04-JUN-2009 02:42:09	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37962	No
20	GOM_TRA_1PNPDE20090604_025708_00000332079_00333_37962_4273.N1	04-JUN-2009 02:57:08	Twi_and_stray	33.000	38	20Eps Sgr	1.8360	11000.	66	37962	No
21	GOM_TRA_1PNPDE20090604_025847_00000352079_00333_37962_4274.N1	04-JUN-2009 02:58:47	Twi_and_stray	34.500	116	19Del Sgr	2.7000	4100.0	69	37962	No
22	GOM_TRA_1PNPDE20090604_030453_00000302079_00333_37962_4275.N1	04-JUN-2009 03:04:53	Twi_and_stray	30.000	86	35Eta Oph	2.4300	10200.	60	37962	No
23	GOM_TRA_1PNPDE20090604_031646_00000302079_00333_37962_4276.N1	04-JUN-2009 03:16:46	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37962	No
24	GOM_TRA_1PNPDE20090604_032006_00000312079_00333_37962_4277.N1	04-JUN-2009 03:20:06	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37962	No
25	GOM_TRA_1PNPDE20090604_032727_00000322079_00333_37962_4278.N1	04-JUN-2009 03:27:27	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37962	No
26	GOM_TRA_1PNPDE20090604_033819_00000312079_00333_37962_4444.N1	04-JUN-2009 03:38:19	Twi_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	37962	No
27	GOM_TRA_1PNPDE20090604_034342_00000252079_00333_37962_4445.N1	04-JUN-2009 03:43:42	Twi_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	37962	No
28	GOM_TRA_1PNPDE20090604_035423_00000292079_00333_37962_4446.N1	04-JUN-2009 03:54:23	Twi_and_stray	28.500	58	21Alp And	2.0730	11000.	57	37962	No
29	GOM_TRA_1PNPDE20090604_035934_00000302079_00333_37962_4447.N1	04-JUN-2009 03:59:34	Dark	30.000	140	88Gam Peg	2.8340	26000.	60	37962	No
30	GOM_TRA_1PNPDE20090604_041751_00000402079_00333_37962_4448.N1	04-JUN-2009 04:17:51	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37962	No
31	GOM_TRA_1PNPDE20090604_042246_00000342079_00334_37963_4449.N1	04-JUN-2009 04:22:46	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37963	No
32	GOM_TRA_1PNPDE20090604_043744_00000332079_00334_37963_4450.N1	04-JUN-2009 04:37:44	Twi_and_stray	33.000	38	20Eps Sgr	1.8360	11000.	66	37963	No
33	GOM_TRA_1PNPDE20090604_043923_00000352079_00334_37963_4451.N1	04-JUN-2009 04:39:23	Twi_and_stray	34.500	116	19Del Sgr	2.7000	4100.0	69	37963	No
34	GOM_TRA_1PNPDE20090604_044529_00000302079_00334_37963_4452.N1	04-JUN-2009 04:45:29	Twi_and_stray	30.000	86	35Eta Oph	2.4300	10200.	60	37963	No
35	GOM_TRA_1PNPDE20090604_045721_00000312079_00334_37963_4453.N1	04-JUN-2009 04:57:21	Bright	30.500	127	27Bet Her	2.7810	4700.0	61	37963	No
36	GOM_TRA_1PNPDE20090604_050041_00000312079_00334_37963_4454.N1	04-JUN-2009 05:00:41	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37963	No
37	GOM_TRA_1PNPDE20090604_050802_00000322079_00334_37963_4455.N1	04-JUN-2009 05:08:02	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37963	No
38	GOM_TRA_1PNPDE20090604_051855_00000312079_00334_37963_4633.N1	04-JUN-2009 05:18:55	Twi_and_stray	30.500	89	5Alp Cep	2.4510	8000.0	61	37963	No
39	GOM_TRA_1PNPDE20090604_052418_00000252079_00334_37963_4634.N1	04-JUN-2009 05:24:18	Twi_and_stray	24.500	74	11Bet Cas	2.2680	6600.0	49	37963	No
40	GOM_TRA_1PNPDE20090604_053459_00000282079_00334_37963_4635.N1	04-JUN-2009 05:34:59	Twi_and_stray	28.000	58	21Alp And	2.0730	11000.	56	37963	No
41	GOM_TRA_1PNPDE20090604_054011_00000302079_00334_37963_4636.N1	04-JUN-2009 05:40:11	Dark	30.000	140	88Gam Peg	2.8340	26000.	60	37963	No
42	GOM_TRA_1PNPDE20090604_055829_00000402079_00334_37963_4637.N1	04-JUN-2009 05:58:29	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37963	No
43	GOM_TRA_1PNPDE20090604_060324_00000342079_00335_37964_4638.N1	04-JUN-2009 06:03:24	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37964	No
44	GOM_TRA_1PNPDE20090604_061821_00000332079_00335_37964_4639.N1	04-JUN-2009 06:18:21	Twi_and_stray	33.000	38	20Eps Sgr	1.8360	11000.	66	37964	No
45	GOM_TRA_1PNPDE20090604_062000_00000342079_00335_37964_4640.N1	04-JUN-2009 06:20:00	Twi_and_stray	34.000	116	19Del Sgr	2.7000	4100.0	68	37964	No
46	GOM_TRA_1PNPDE20090604_062605_00000302079_00335_37964_4641.N1	04-JUN-2009 06:26:05	Twi_and_stray	30.000	86	35Eta Oph	2.4300	10200.	60	37964	No
47	GOM_TRA_1PNPDE20090604_063757_00000302079_00335_37964_4642.N1	04-JUN-2009 06:37:57	Bright	29.500	127	27Bet Her	2.7810	4700.0	59	37964	No
48	GOM_TRA_1PNPDE20090604_064117_00000312079_00335_37964_4643.N1	04-JUN-2009 06:41:17	Bright	30.500	133	40Zet Her	2.8070	6000.0	61	37964	No

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



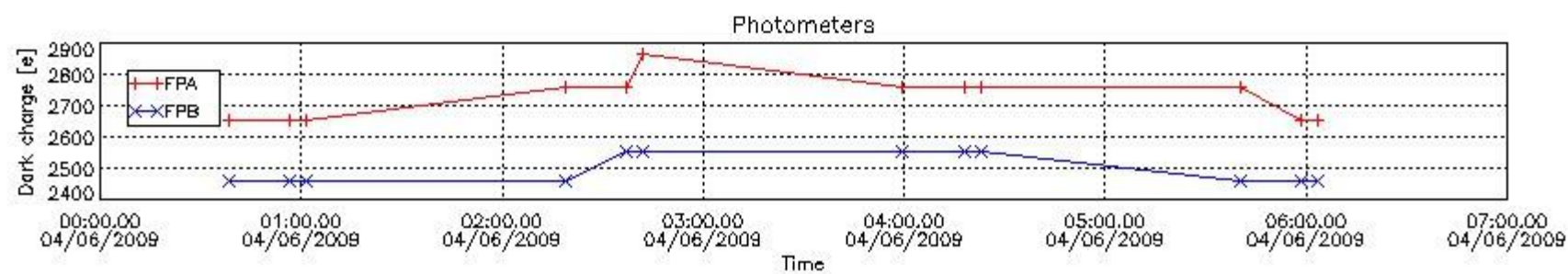
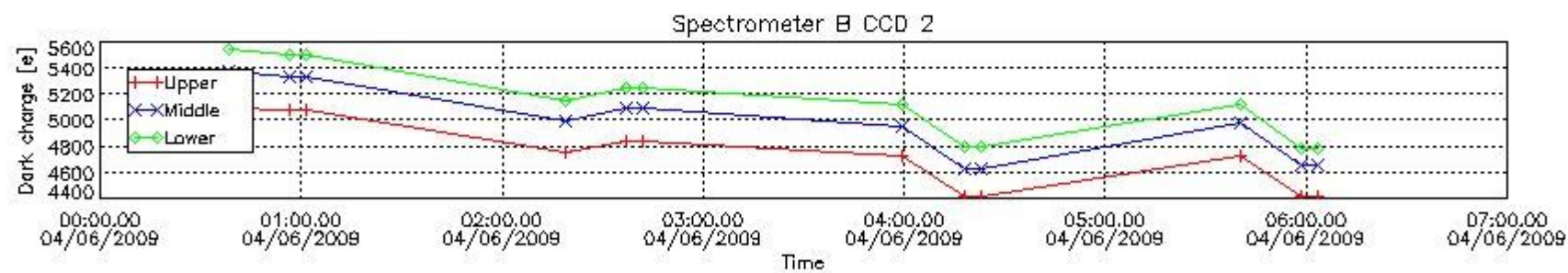
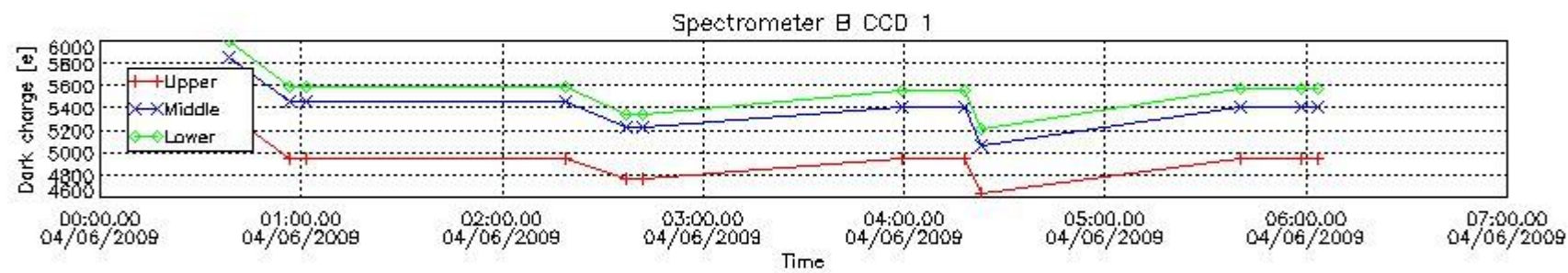
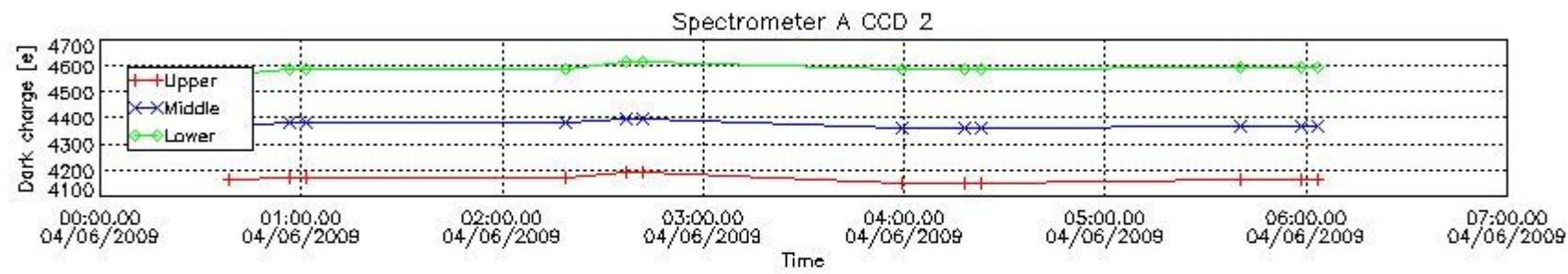
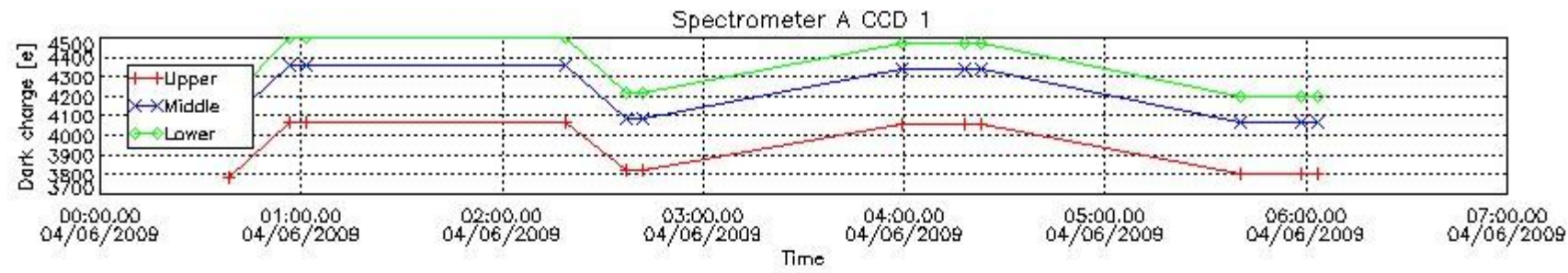
4. Overview of dark signal processing per product

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



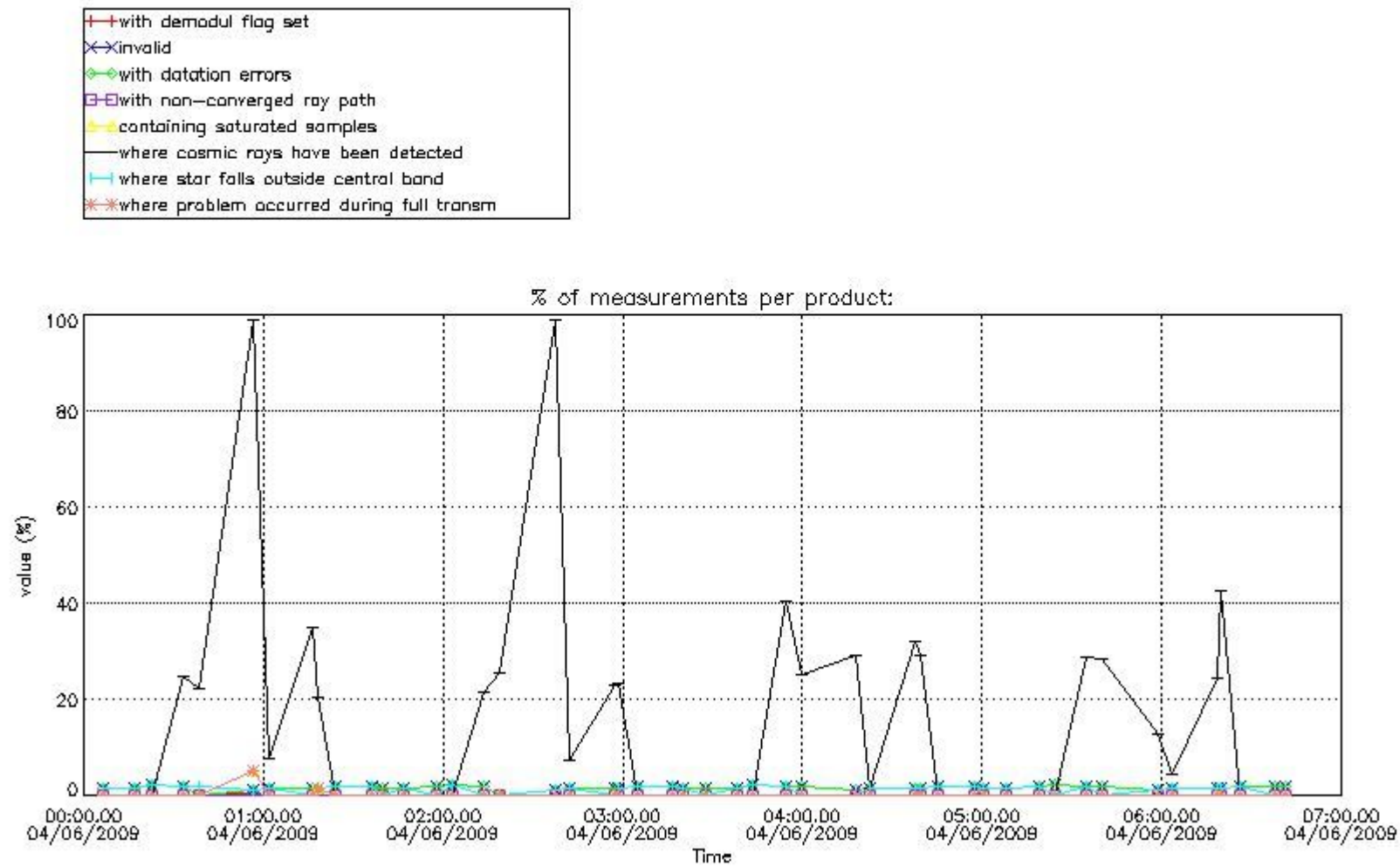
5. Demodulation flag and quality information monitoring

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.

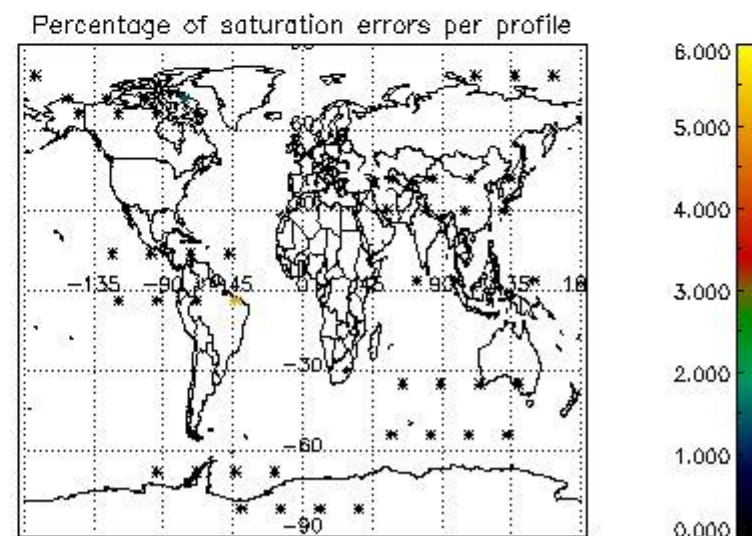
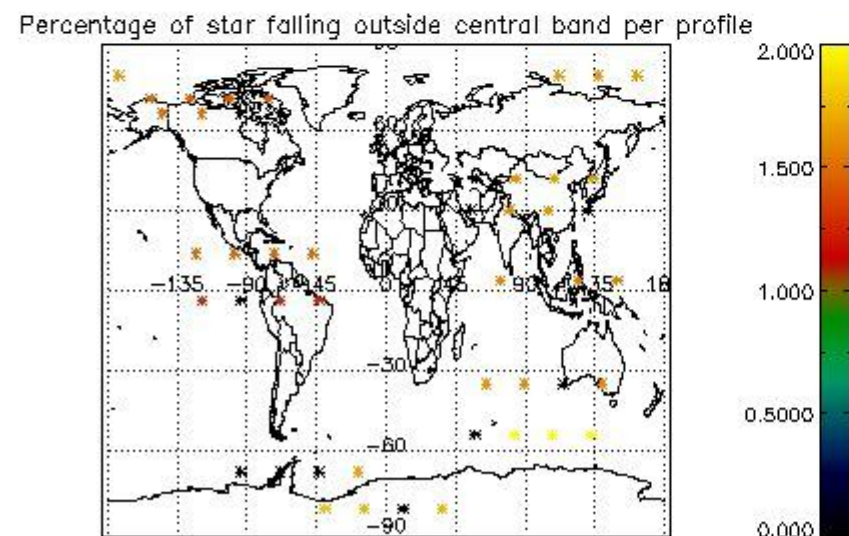
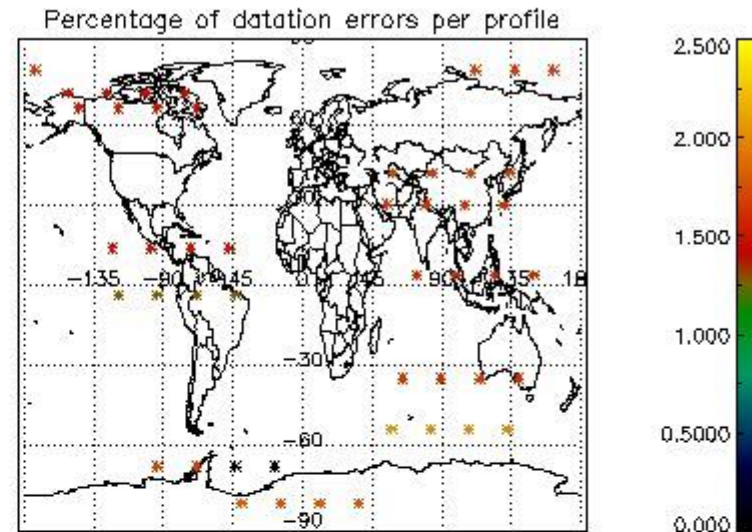
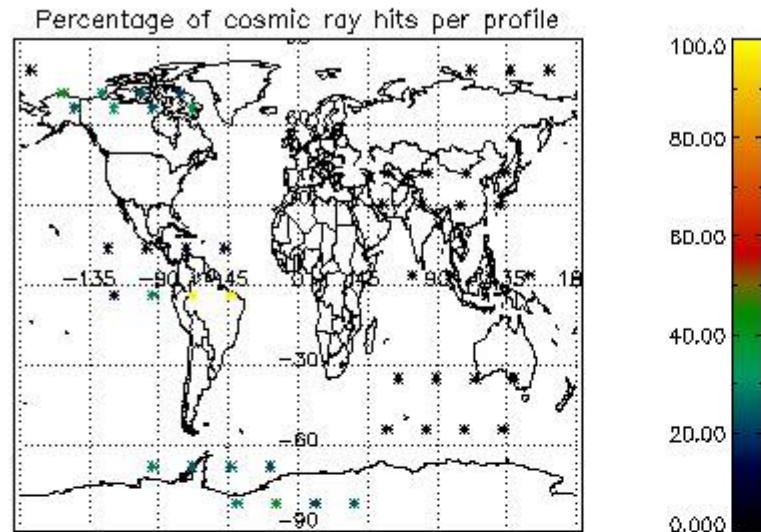
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.1667 %
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)



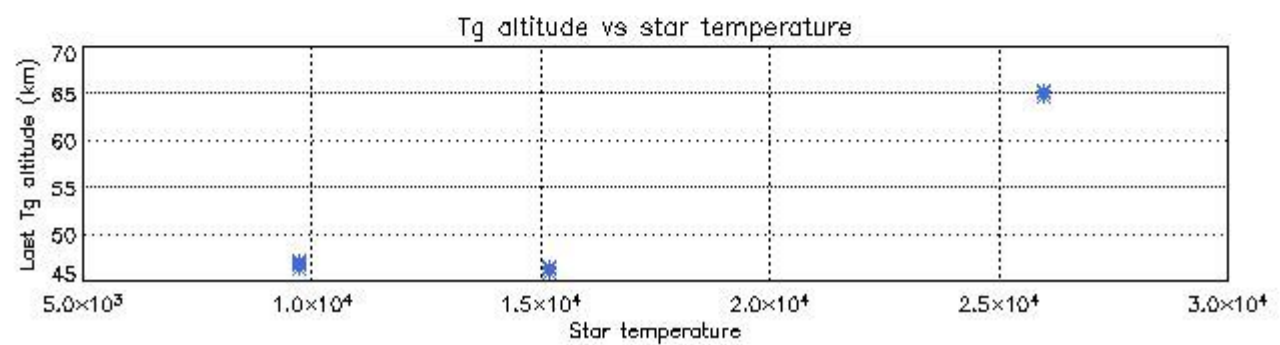
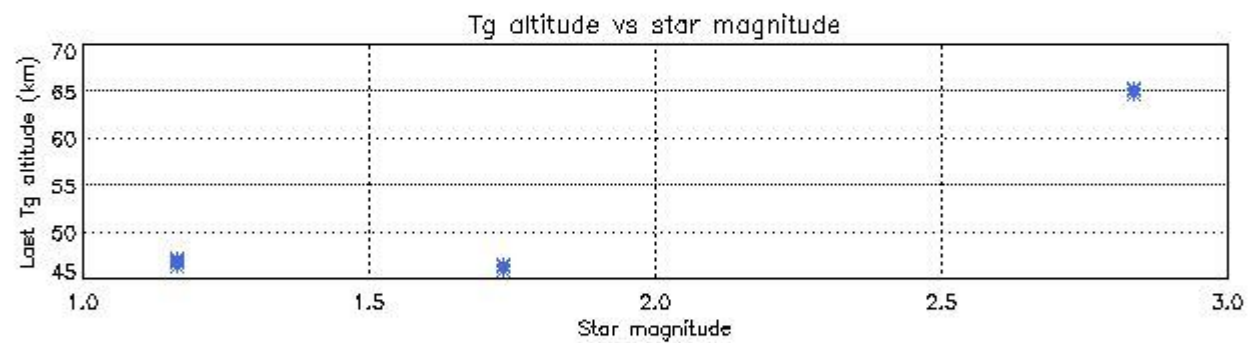
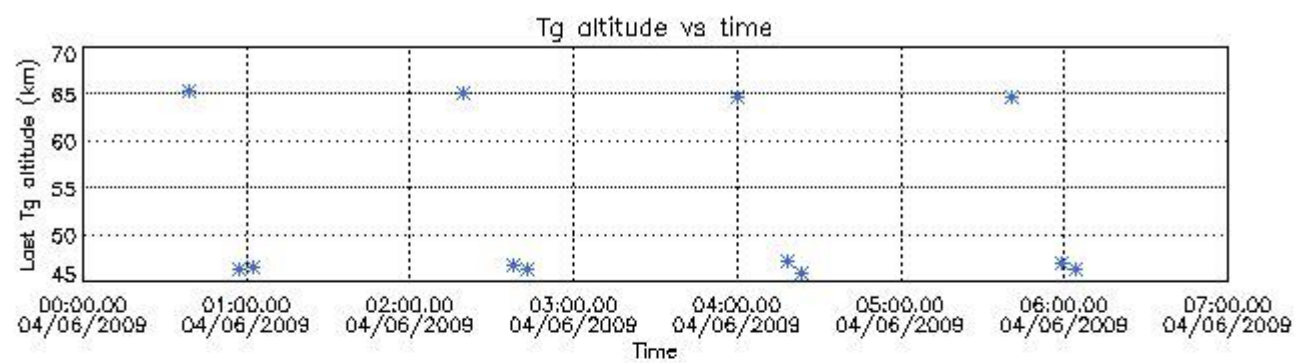
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	52.635	47.411	NaN
St. deviation:	9.0799	0.74805	NaN
Maximum:	65.209	48.939	NaN
Minimum:	45.857	46.433	NaN
Number of data:	12.000	12.000	NaN

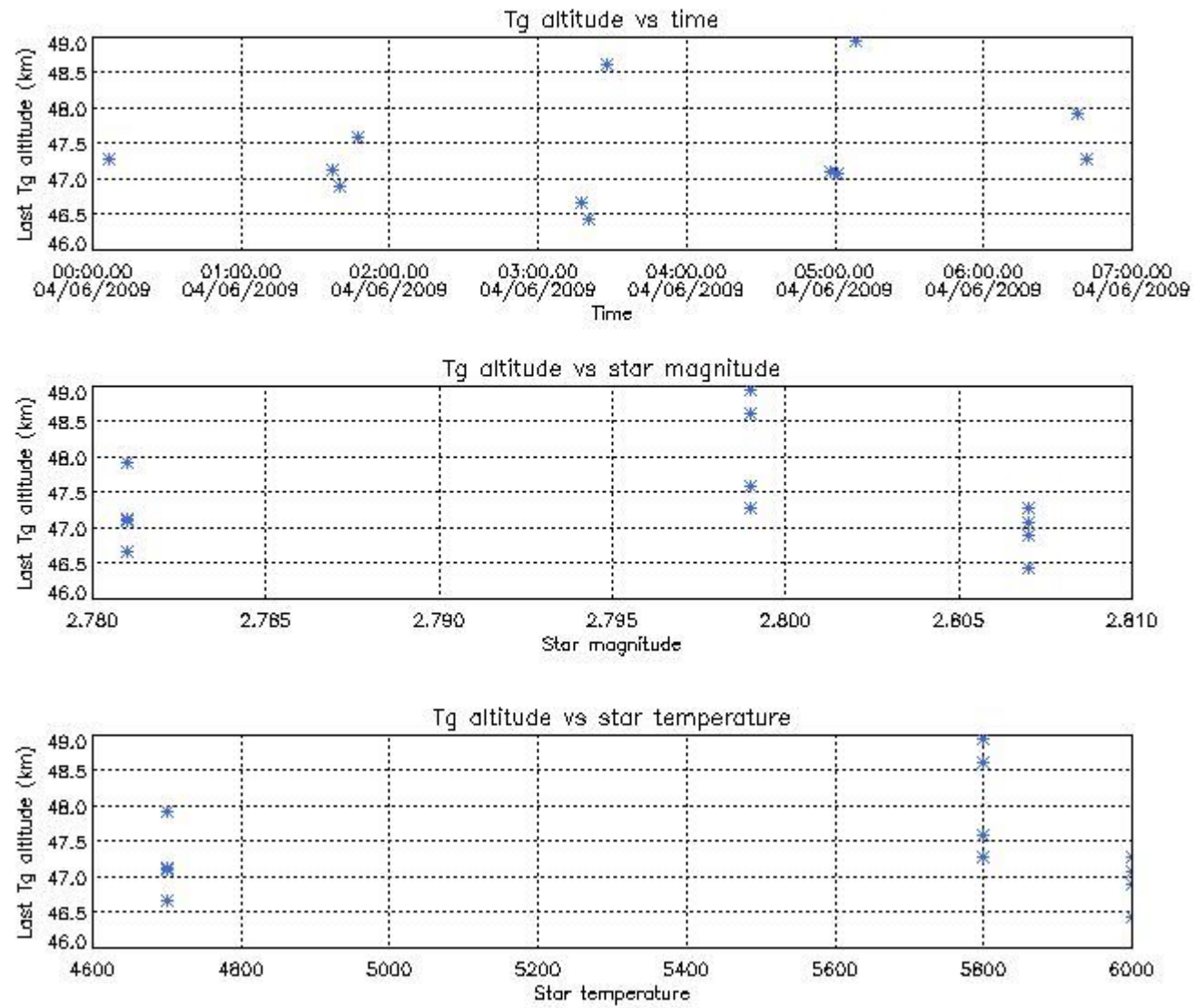
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

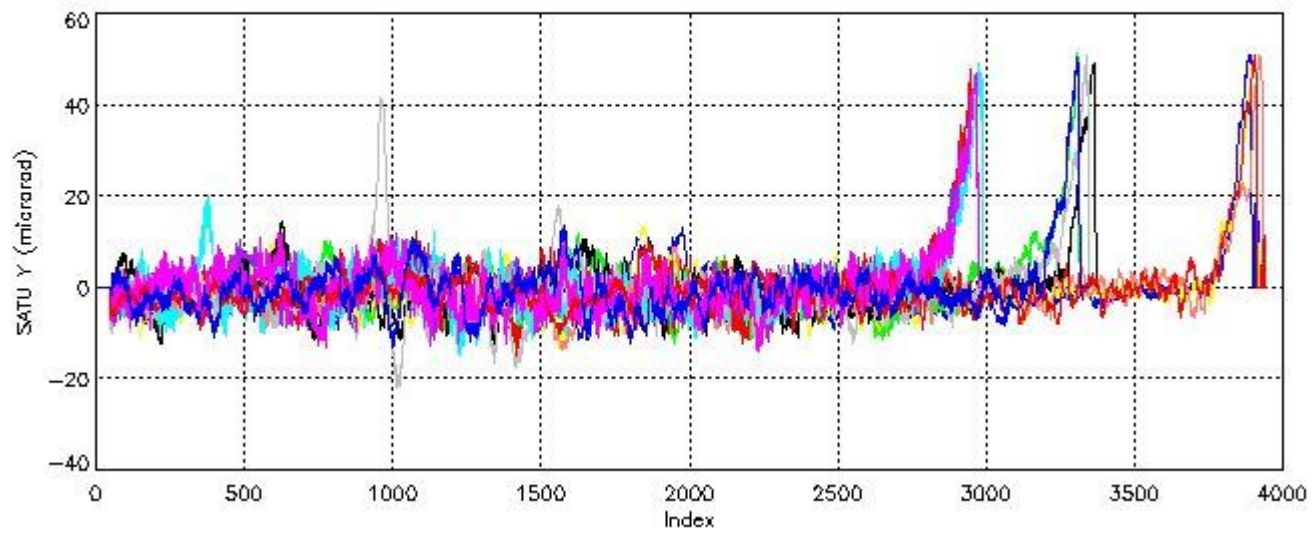
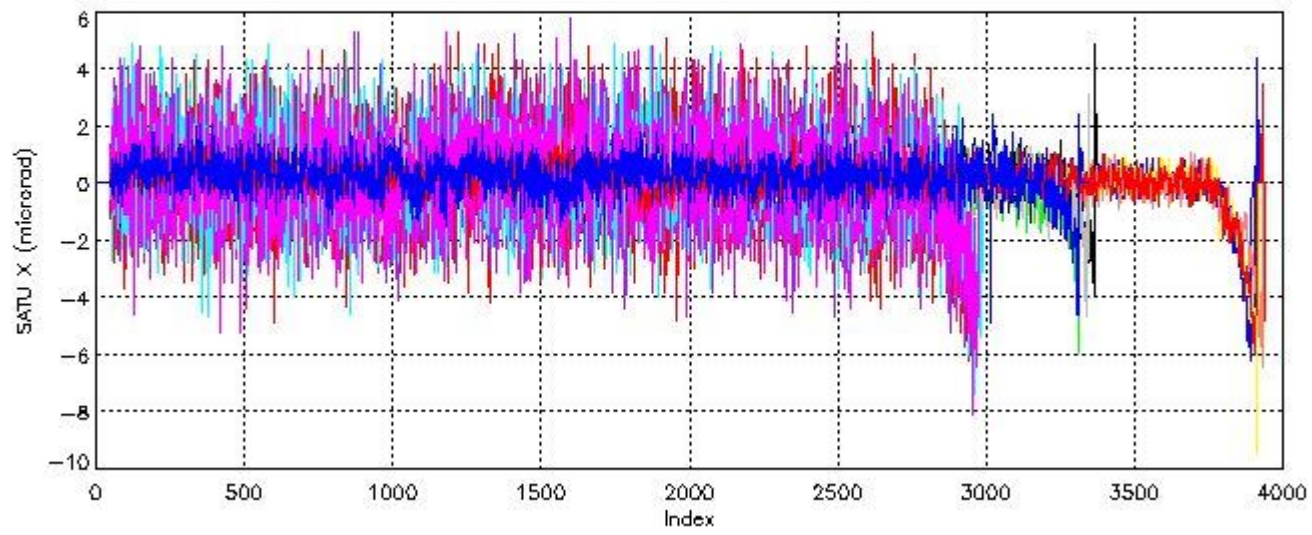


7. Star Acquisition and Tracking Unit (SATU)

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:	0.32272	-0.70139	0.30148	-1.2044
St. deviation:	0.82917	4.0159	0.85798	2.9180
Maximum:	5.3000	41.500	3.9000	20.200
Minimum:	-5.2000	-21.900	-3.2000	-11.500

Number of data:	14500.	14500.	11750.	11750.
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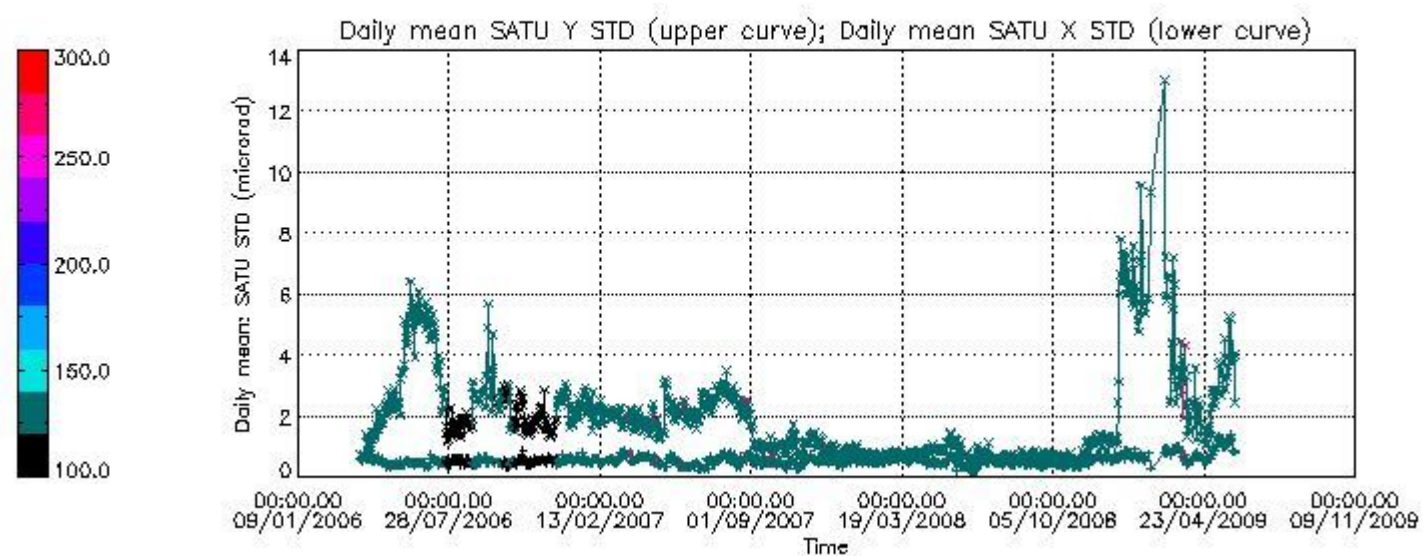
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

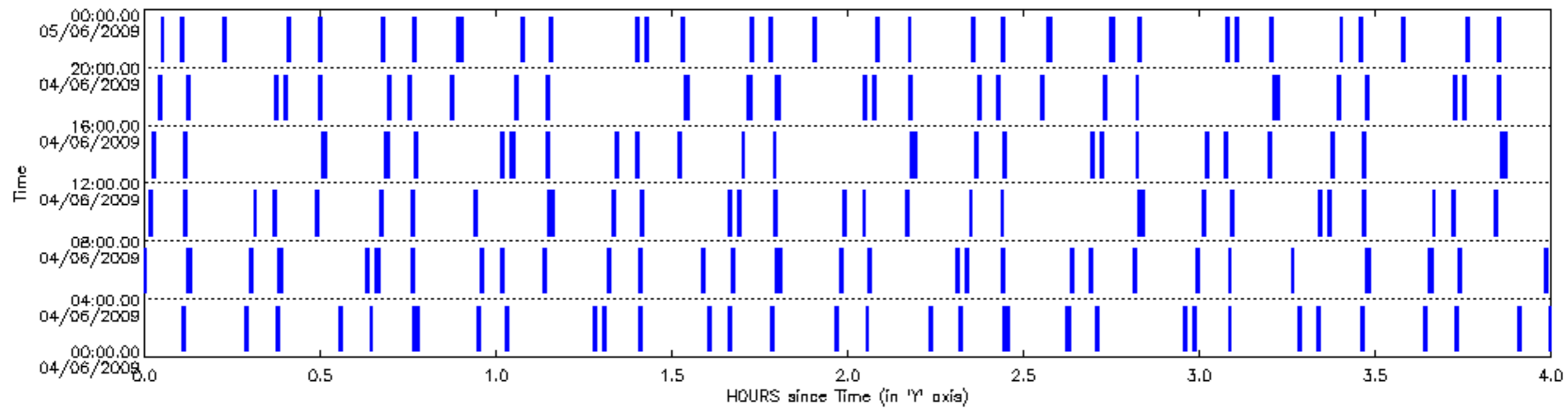
Lower curve: STD of SATU X axis

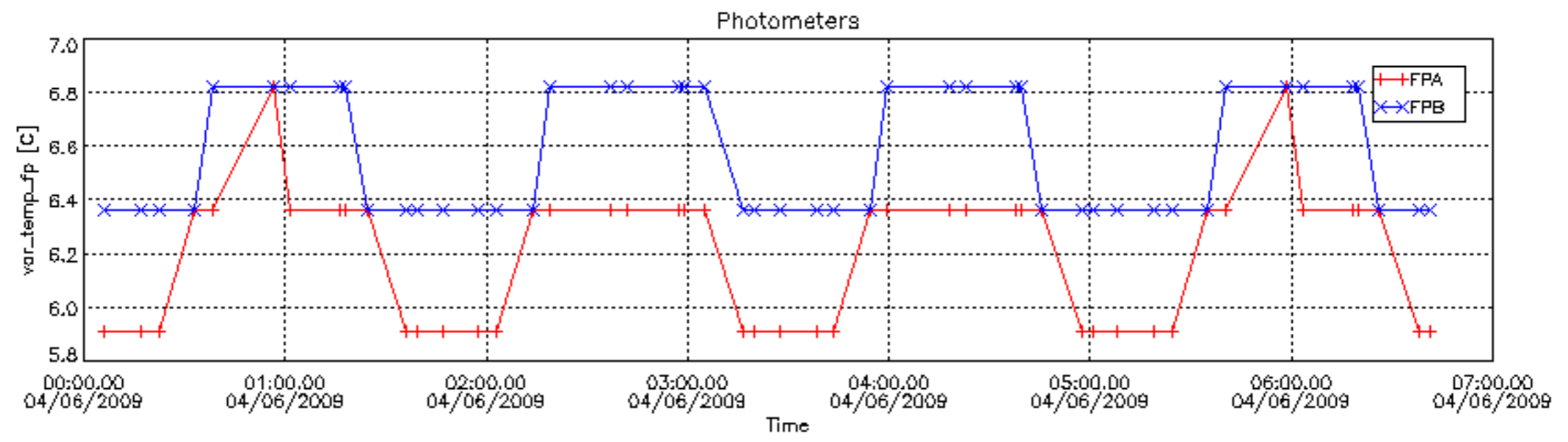
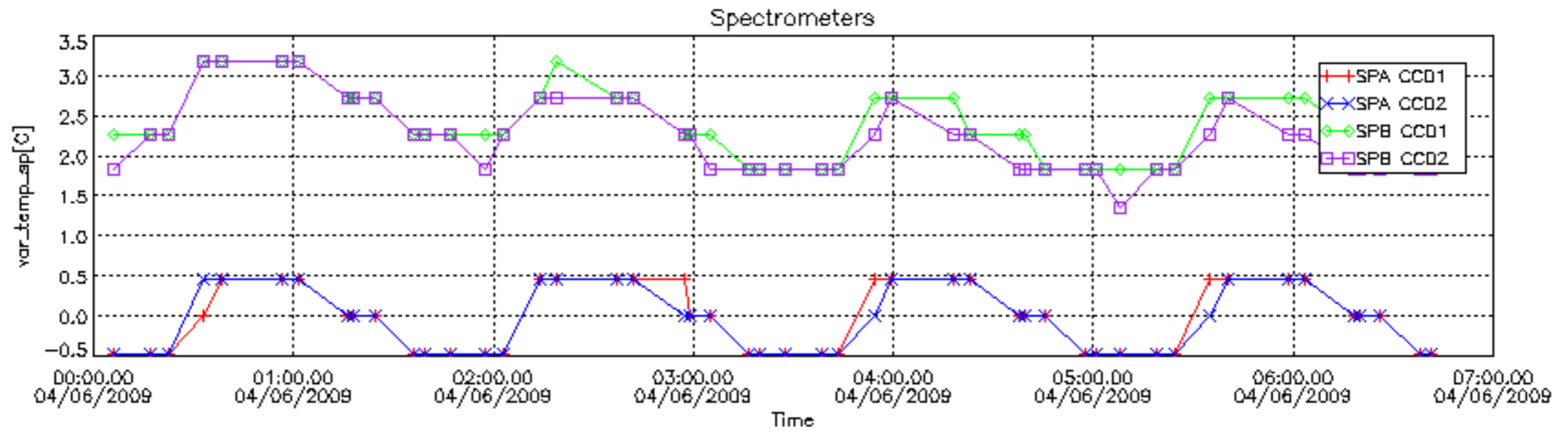


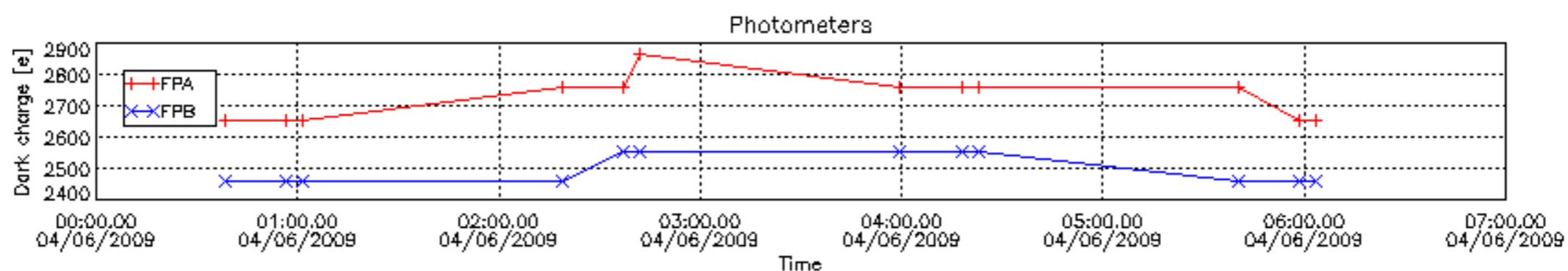
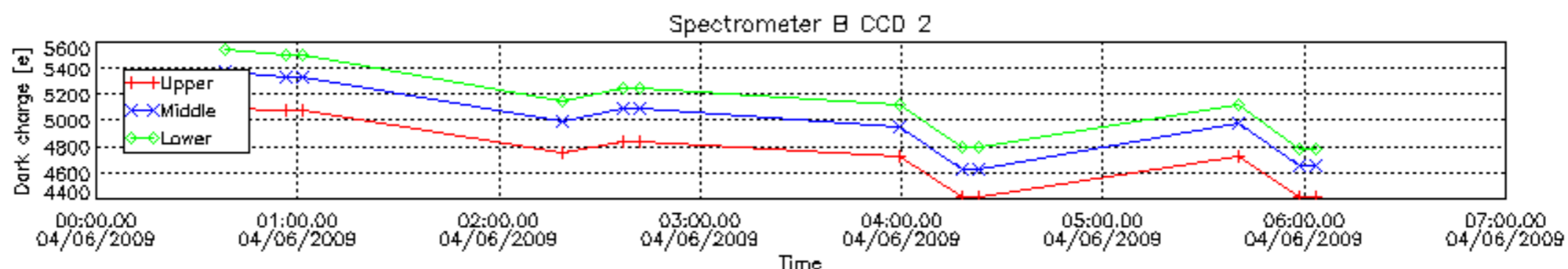
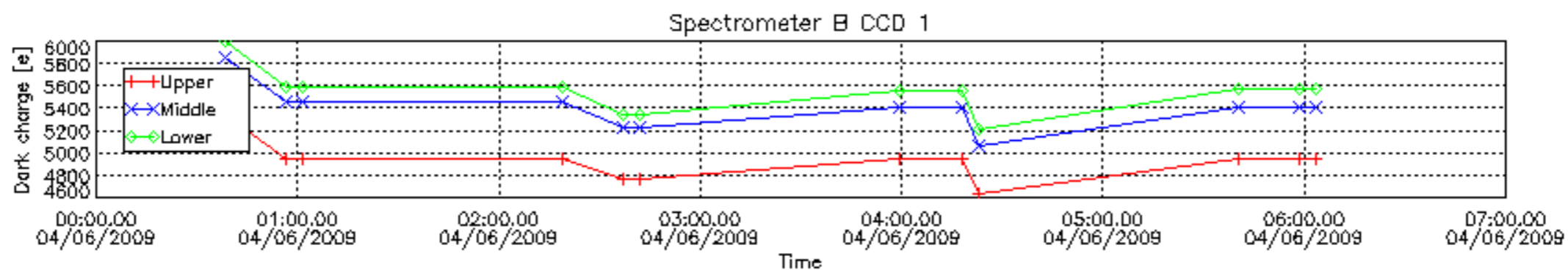
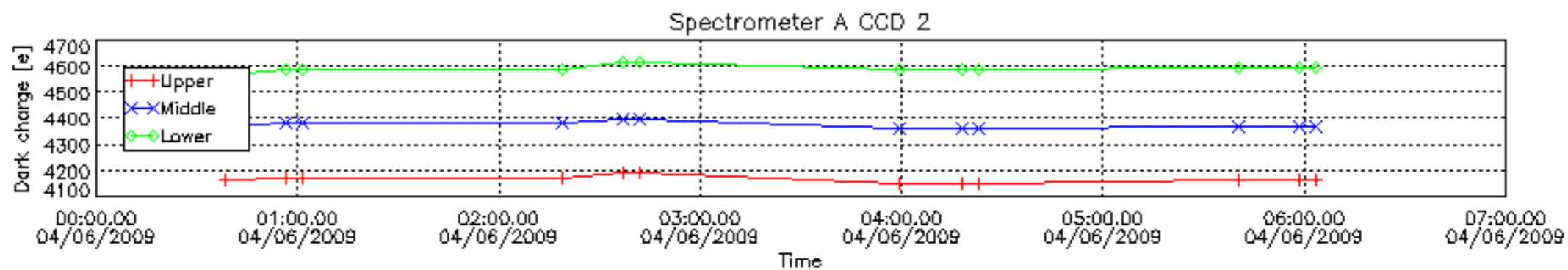
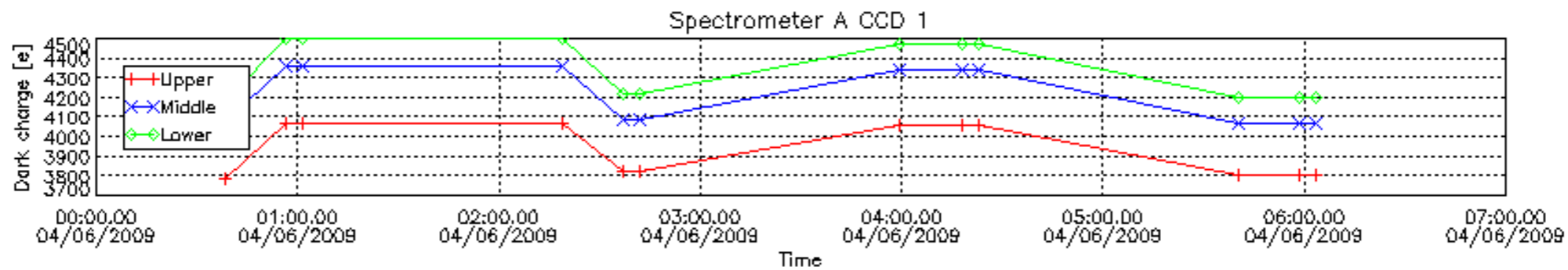
8. Auxiliary Data Files used for the production reported in section 2.4

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.

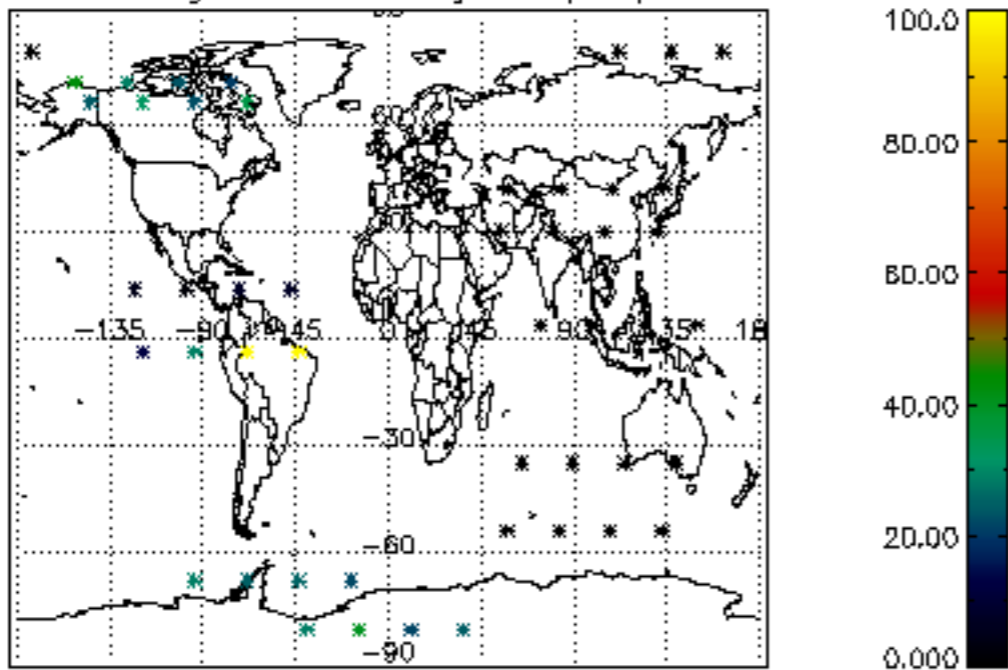
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	04-JUN-2009 00:06:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JUN-2009 00:06:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JUN-2009 00:06:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JUN-2009 00:06:16
ECMWF_FILE	AUX_ECF_AXNECM20090603_064112_20090603_210000_20090604_090000	1	04-JUN-2009 00:06:16
ECMWF_FILE	AUX_ECF_AXNECM20090603_184111_20090604_030000_20090604_150000	26	04-JUN-2009 03:38:19
OPTIONAL_ECMWF_FILE	MISSING	1	04-JUN-2009 00:06:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090603_211858_000057382079_00329_37958_8079.N1	1	04-JUN-2009 00:06:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090603_225955_000057382079_00330_37959_8080.N1	6	04-JUN-2009 00:56:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090604_004052_000054192079_00331_37960_8081.N1	18	04-JUN-2009 02:37:14
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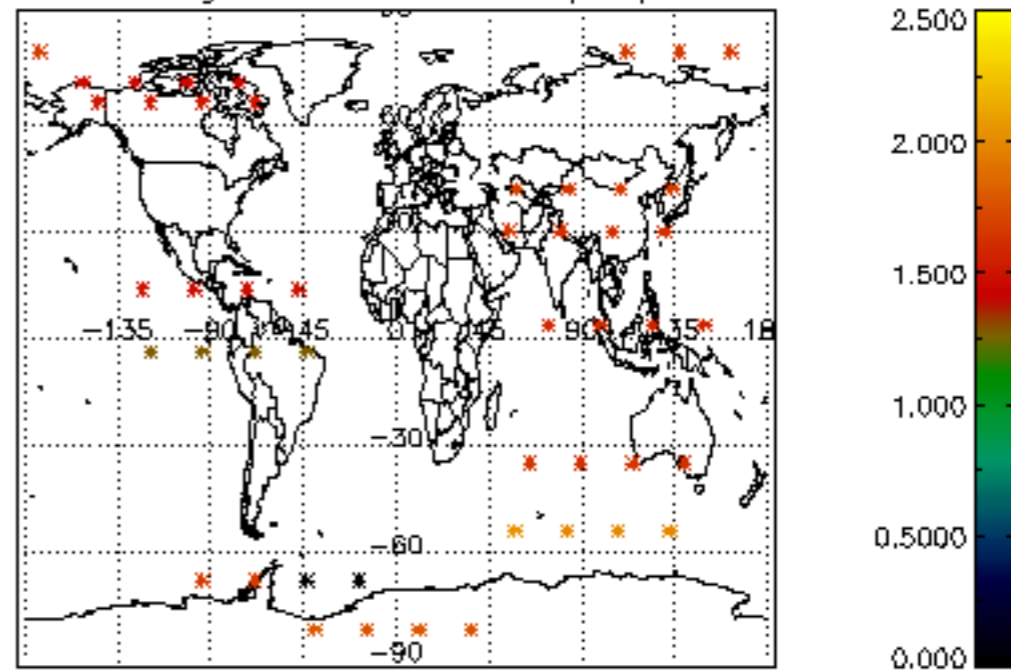




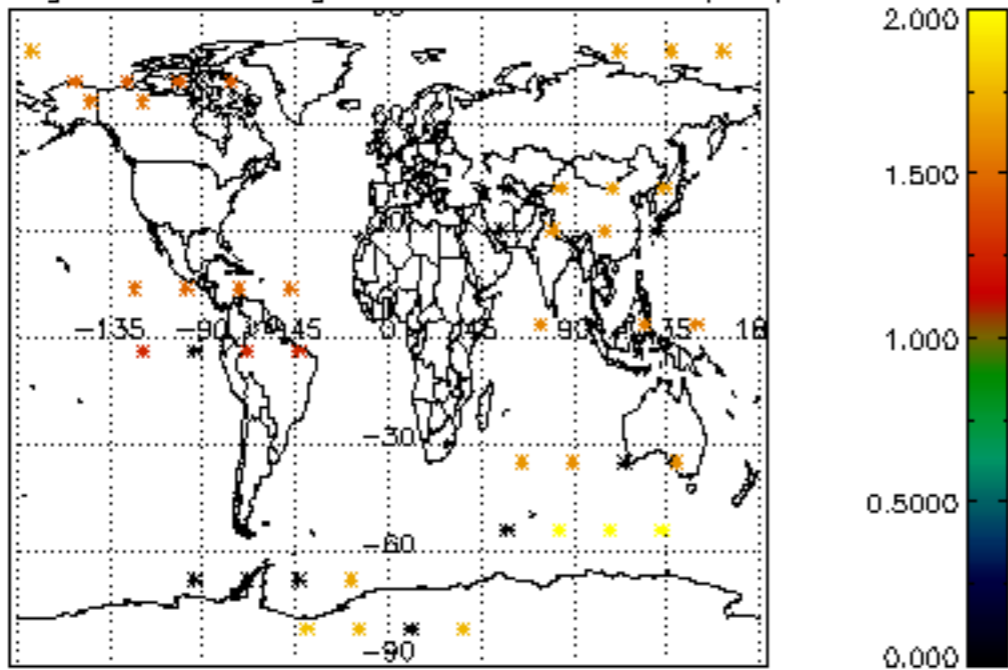
Percentage of cosmic ray hits per profile



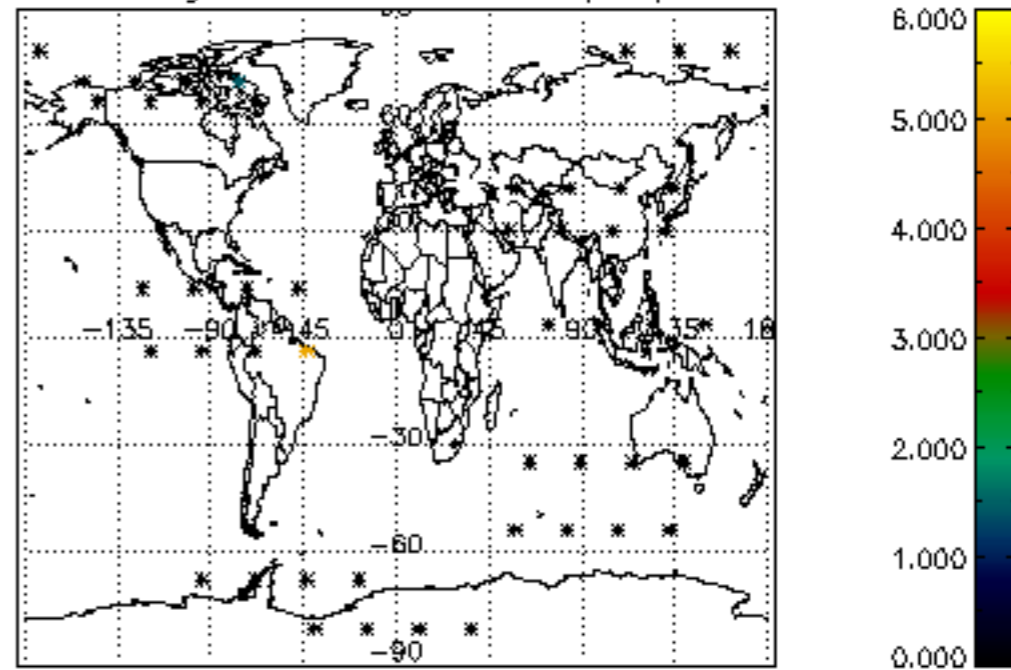
Percentage of datation errors per profile



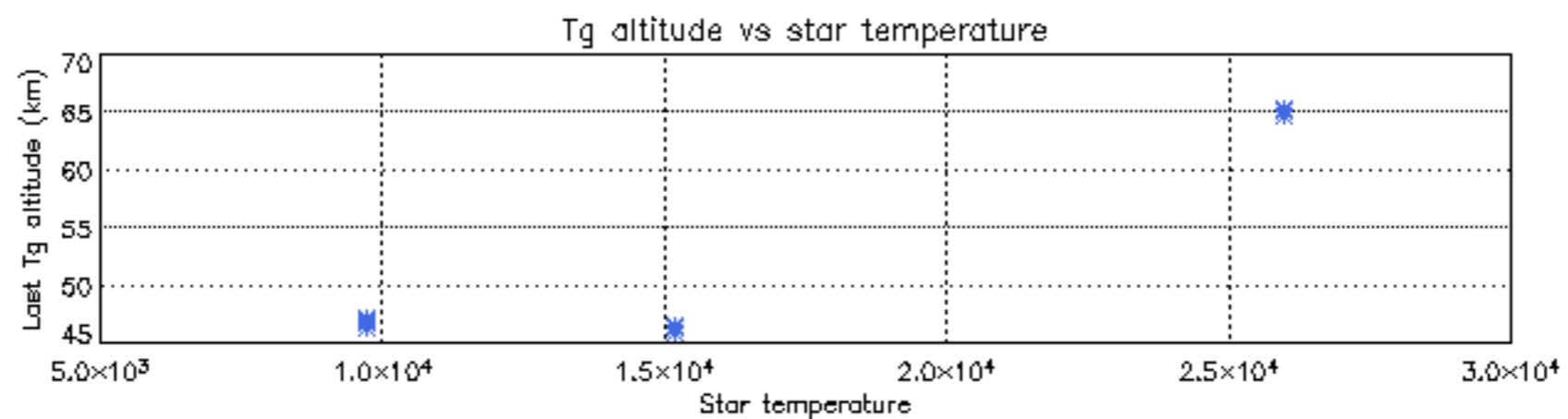
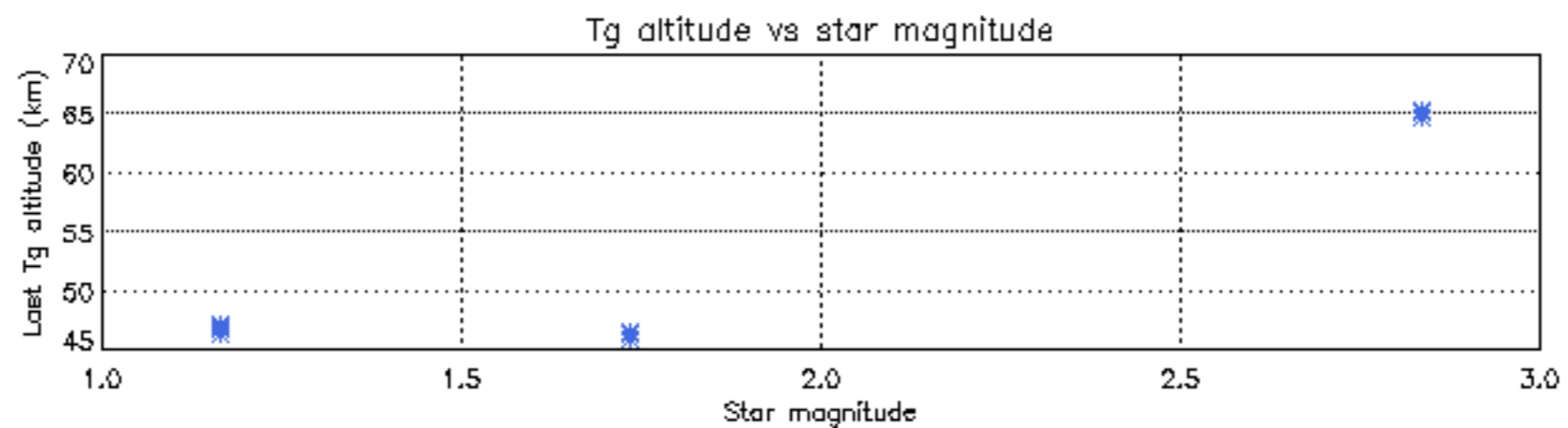
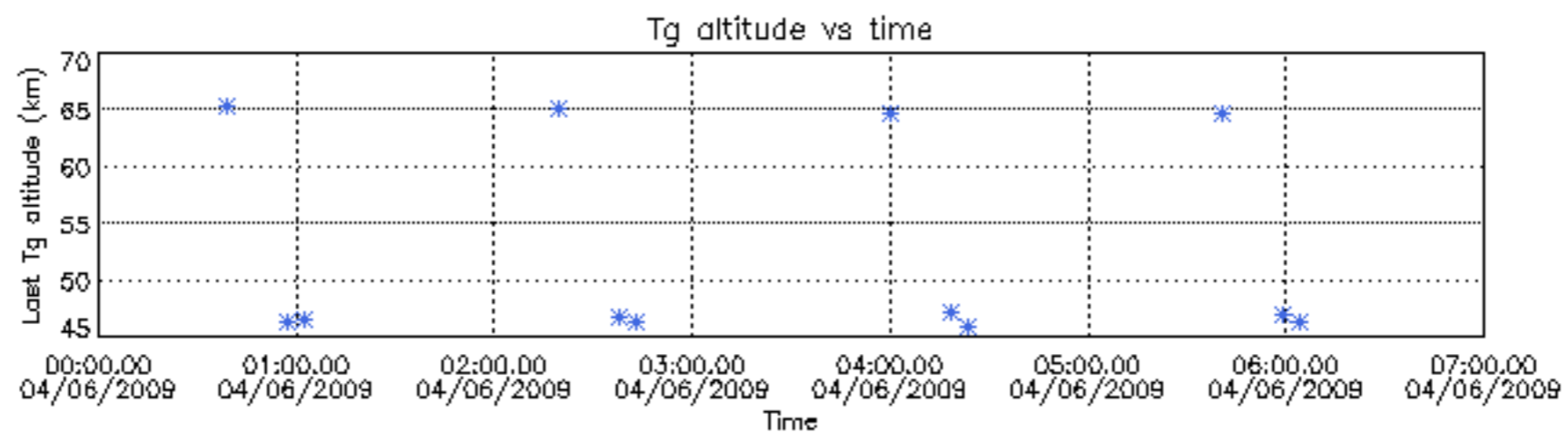
Percentage of star falling outside central band per profile



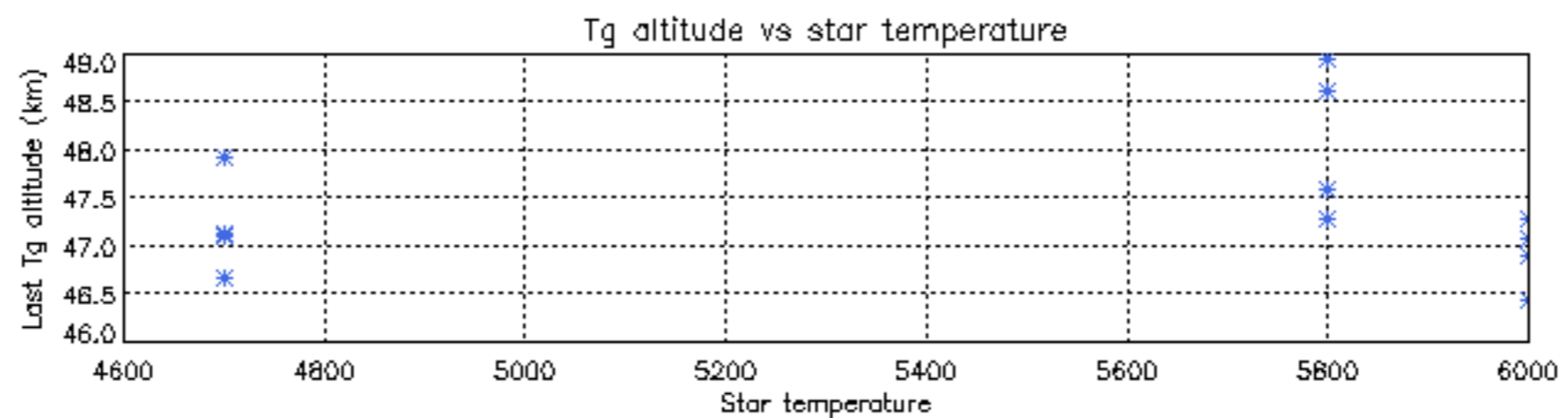
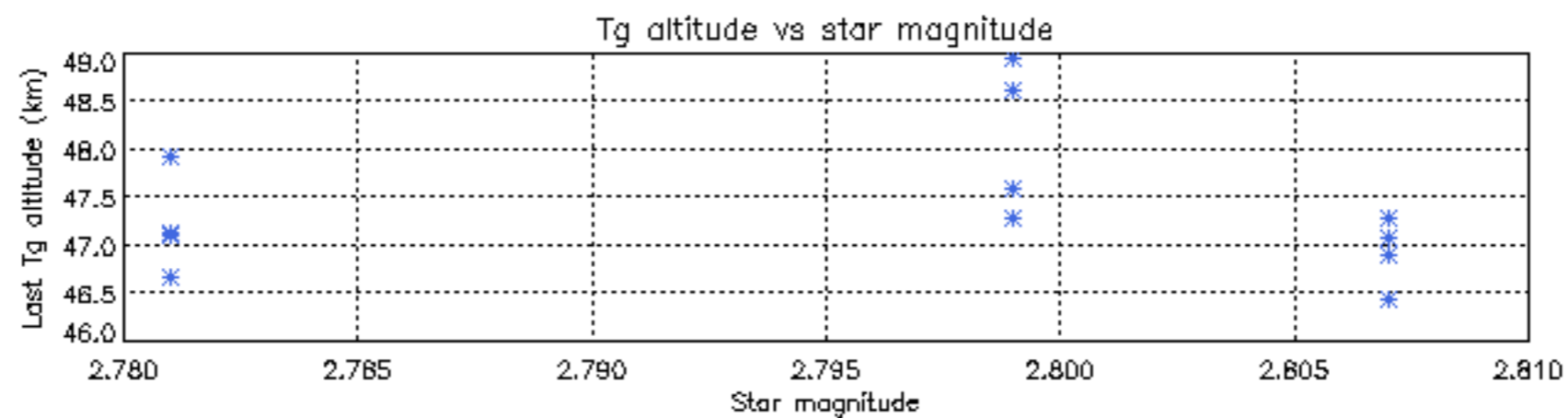
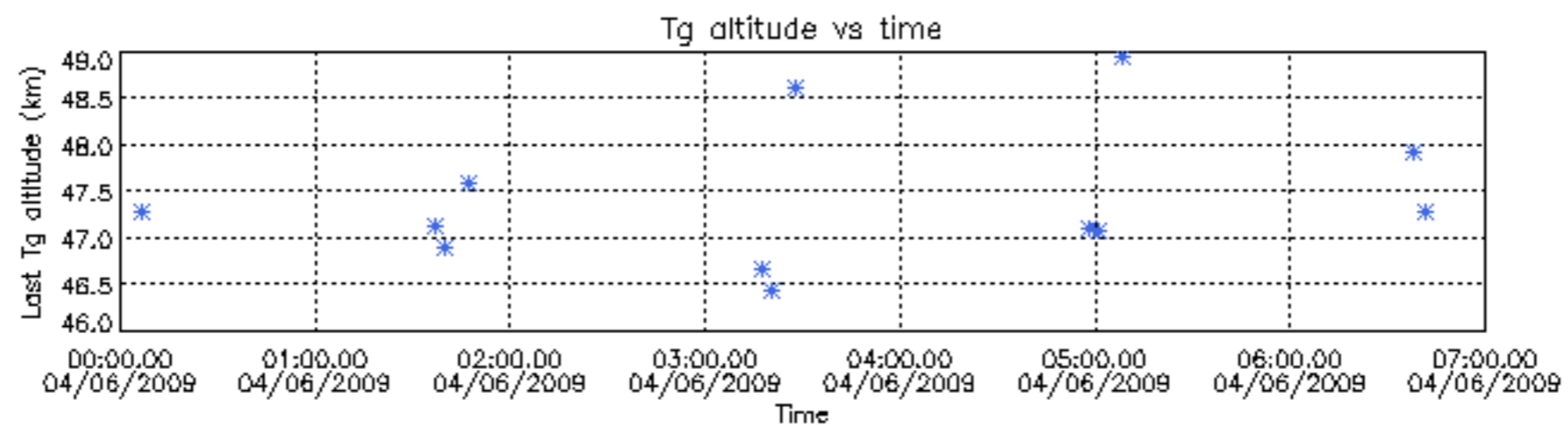
Percentage of saturation errors per profile

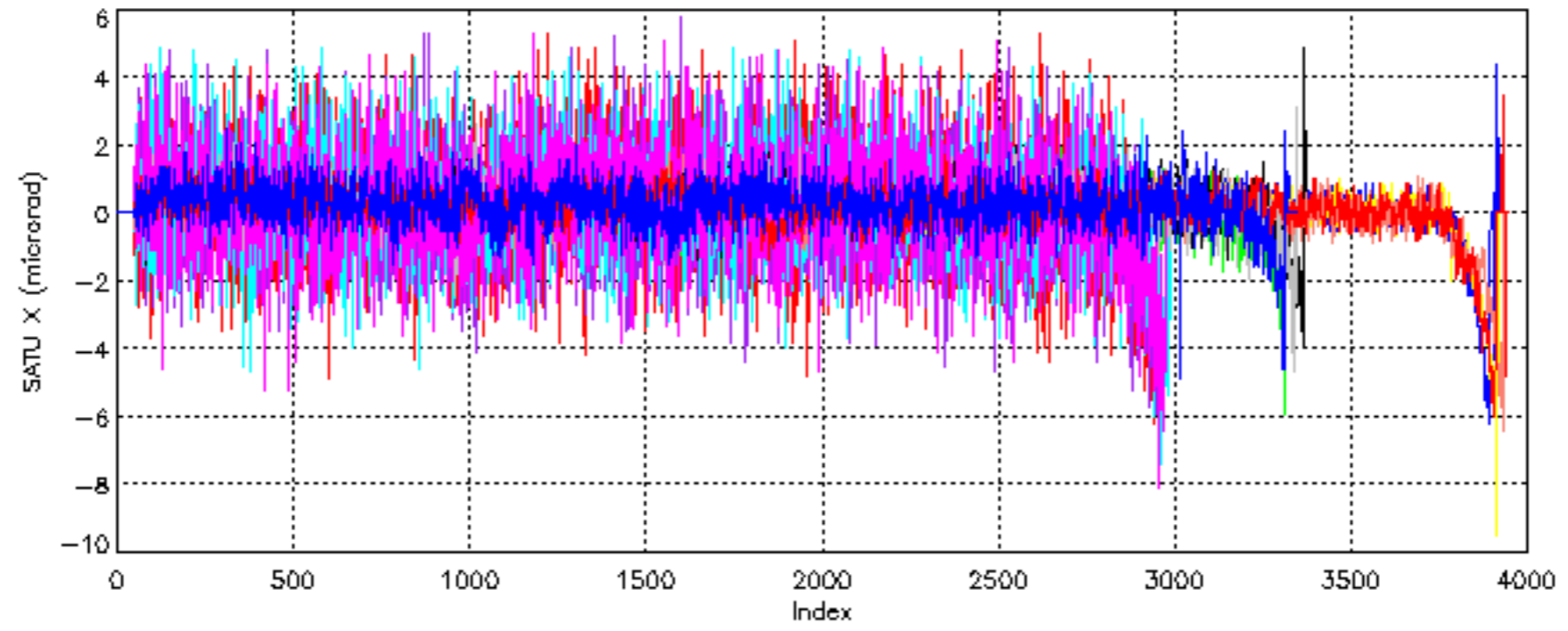


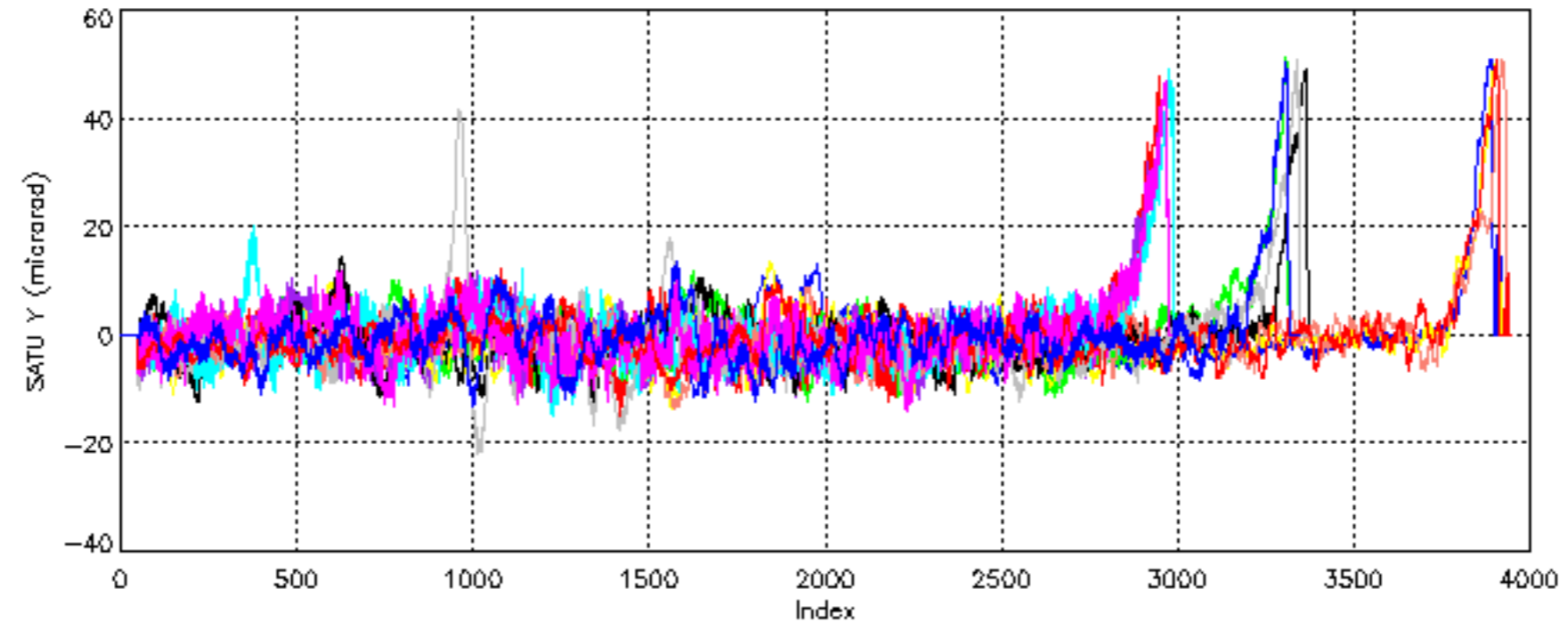
Tangent altitude at which the star is lost

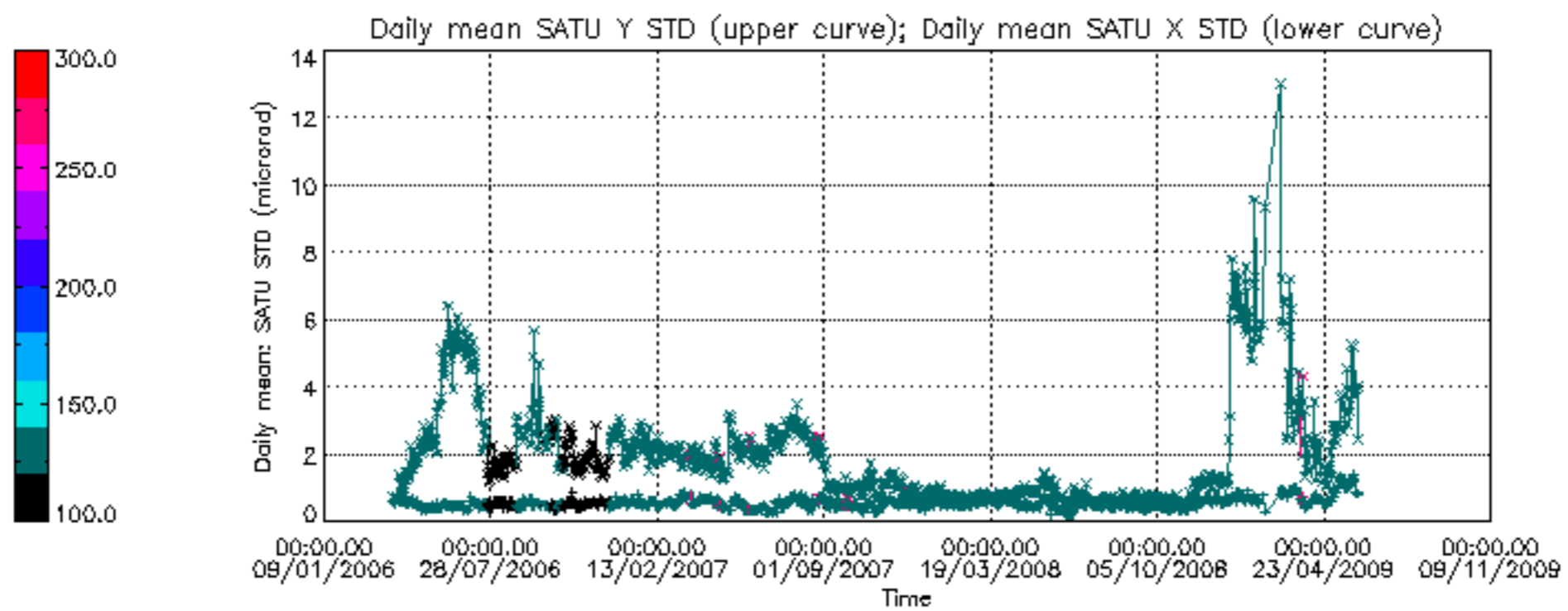


Tangent altitude at which the star is lost









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3; 2505.7; 04-JUN-2009 13:23:39; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37968
4; 2945.8; 04-JUN-2009 13:30:59; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37968
5; 3597.9; 04-JUN-2009 13:41:51; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37968
6; 3923.1; 04-JUN-2009 13:47:16; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37968
7; 5329.5; 04-JUN-2009 14:10:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37968
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4; 1158.1; 08-JUN-2009 00:51:08; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38018
5; 1277.4; 08-JUN-2009 00:53:07; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38018
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7; 2204.2; 08-JUN-2009 01:08:34; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;38018
8; 2486.9; 08-JUN-2009 01:13:17; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38018
9; 2918.1; 08-JUN-2009 01:20:28; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38018
10; 3566.1; 08-JUN-2009 01:31:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38018
11; 3911.1; 08-JUN-2009 01:37:01; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38018
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13; 4578.1; 08-JUN-2009 01:48:08; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38018
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3; 287.3; 08-JUN-2009 02:17:13; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38019
4; 1158.6; 08-JUN-2009 02:31:44; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38019
5; 1277.9; 08-JUN-2009 02:33:43; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38019
6; 2042.9; 08-JUN-2009 02:46:28; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;38019
7; 2203.7; 08-JUN-2009 02:49:09; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;38019


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8; 1159.3; 08-JUN-2009 04:12:21; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38020
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7; 3908.0; 08-JUN-2009 21:44:09; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38030
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5; 1164.9; 09-JUN-2009 00:19:38; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38032
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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
7; 1173.7; 10-JUN-2009 08:11:09; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38051
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5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
6; 4405.8; 10-JUN-2009 09:05:01; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38051
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8; 5489.6; 10-JUN-2009 09:23:05; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38051
9; 6234.5; 10-JUN-2009 09:35:30; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38051
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11; 7209.7; 10-JUN-2009 09:51:45; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38051
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3; 2901.3; 10-JUN-2009 10:20:33; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38052
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11; 6356.4; 10-JUN-2009 11:18:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38052
12; 7209.9; 10-JUN-2009 11:32:21; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38052
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4; 3901.5; 10-JUN-2009 12:17:49; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38053
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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
4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 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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2; 2186.4; 10-JUN-2009 15:10:25; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38055
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
8; 5493.5; 10-JUN-2009 16:05:33; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38055

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4; 2899.7; 10-JUN-2009 17:02:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38056
5; 3541.8; 10-JUN-2009 17:13:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38056
6; 3900.8; 10-JUN-2009 17:19:36; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38056
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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
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6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
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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
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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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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; 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
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
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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13; 2890.2; 12-JUN-2009 04:15:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38077
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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
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
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
10; 2173.0; 12-JUN-2009 22:29:58; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38088
11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
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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2; 224.9; 12-JUN-2009 08:32:42; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38080
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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5; 445.6; 12-JUN-2009 10:16:59; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38081
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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9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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13; 7222.4; 12-JUN-2009 12:09:56; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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3; 2881.9; 13-JUN-2009 10:25:58; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38095
4; 3515.8; 13-JUN-2009 10:36:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38095
5; 3889.4; 13-JUN-2009 10:42:46; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38095
6; 4409.0; 13-JUN-2009 10:51:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38095
7; 5418.7; 13-JUN-2009 11:08:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38095
8; 5529.6; 13-JUN-2009 11:10:06; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38095
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10; 6276.4; 13-JUN-2009 11:22:33; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38095
11; 6398.8; 13-JUN-2009 11:24:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38095
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13; 7228.5; 13-JUN-2009 11:38:25; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38095
14; 7347.4; 13-JUN-2009 11:40:24; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38095
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2; 2169.8; 13-JUN-2009 11:54:42; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38096
3; 2881.5; 13-JUN-2009 12:06:34; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38096
4; 3515.0; 13-JUN-2009 12:17:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38096
5; 3888.8; 13-JUN-2009 12:23:21; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38096
6; 4409.1; 13-JUN-2009 12:32:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38096
7; 5419.7; 13-JUN-2009 12:48:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38096
8; 5530.6; 13-JUN-2009 12:50:43; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38096

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11; 6400.2; 13-JUN-2009 13:05:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38096
12; 6503.4; 13-JUN-2009 13:06:56; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38096
13; 7228.4; 13-JUN-2009 13:19:01; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38096
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3; 2881.0; 13-JUN-2009 13:47:09; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38097
4; 3514.5; 13-JUN-2009 13:57:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38097
5; 3888.7; 13-JUN-2009 14:03:57; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38097
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7; 5420.8; 13-JUN-2009 14:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38097
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10; 6278.6; 13-JUN-2009 14:43:47; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38097
11; 6401.1; 13-JUN-2009 14:45:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38097
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13; 7228.9; 13-JUN-2009 14:59:37; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38097
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3; 2880.9; 13-JUN-2009 15:27:45; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38098
4; 3513.9; 13-JUN-2009 15:38:18; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38098
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4; 2880.3; 13-JUN-2009 17:08:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38099
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3; 1366.4; 13-JUN-2009 18:23:42; Bright; 32.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 64; 0;38100
4; 2014.9; 13-JUN-2009 18:34:31; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;38100
5; 2168.4; 13-JUN-2009 18:37:04; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38100
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7; 3512.4; 13-JUN-2009 18:59:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38100
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12; 6180.3; 13-JUN-2009 19:43:56; Dark ; 34.0; 18; 24Alp PsA ; 1.17; 9700;occ; 68; 0;38100
13; 6281.1; 13-JUN-2009 19:45:37; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38100
14; 6403.9; 13-JUN-2009 19:47:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38100
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 2; 2155.9; 16-JUN-2009 10:19:37; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38138
 3; 2794.0; 16-JUN-2009 10:30:15; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38138
 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138
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 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 2; 2155.6; 16-JUN-2009 12:00:13; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38139
 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140
 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140
 7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140
 8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140
 9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140
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 11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
 12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
 13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
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 15; 7277.2; 16-JUN-2009 15:06:10; Dark ; 20.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 41; 0;38140

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 2; 1328.4; 16-JUN-2009 15:07:37; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38141
 3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141
 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
 6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141
 7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141
 8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141
 9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141
 10; 3958.3; 16-JUN-2009 15:51:27; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38141
 11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141
 12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141
 13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141
 14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141
 15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141
 16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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 3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142
 4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142
 5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142
 6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142
 7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142
 8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142
 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142
 10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142
 11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142
 12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142
 13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142
 14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142
 15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142
 16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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 3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143
 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
 5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143
 6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143
 7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143
 8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143
 9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143
 10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143
 11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143
 12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143
 13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143
 14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143
 15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143
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 3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147
 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
12; 2888.9; 17-JUN-2009 01:37:14; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38147
13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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15; 3956.6; 17-JUN-2009 01:55:01; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38147
16; 4412.5; 17-JUN-2009 02:02:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
14; 2152.8; 17-JUN-2009 04:46:09; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38149
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16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
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4; -1348.6; 17-JUN-2009 05:28:24; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38149
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7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
8; 416.5; 17-JUN-2009 05:57:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38150
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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11; 1331.8; 17-JUN-2009 06:13:04; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38150
12; 1437.6; 17-JUN-2009 06:14:50; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38150
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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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11; 1336.1; 18-JUN-2009 04:00:56; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38163
12; 1440.4; 18-JUN-2009 04:02:40; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38163
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16; 2881.4; 18-JUN-2009 04:26:41; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38163
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11; 1336.7; 18-JUN-2009 05:41:32; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38164
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 5; 2146.5; 18-JUN-2009 21:00:25; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38173
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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
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175
 5; 571.0; 18-JUN-2009 23:55:22; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38175
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 16; 7373.2; 18-JUN-2009 09:02:45; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38165
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4; 2879.8; 18-JUN-2009 09:28:27; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38166
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 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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