

GOMOS Daily Report 06-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	10JUN2009 04:38:03
Data source version	GOMOS/5.00
Start time of products	06JUN2009 00:13:32
Stop time of products	06JUN2009 20:23:52
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

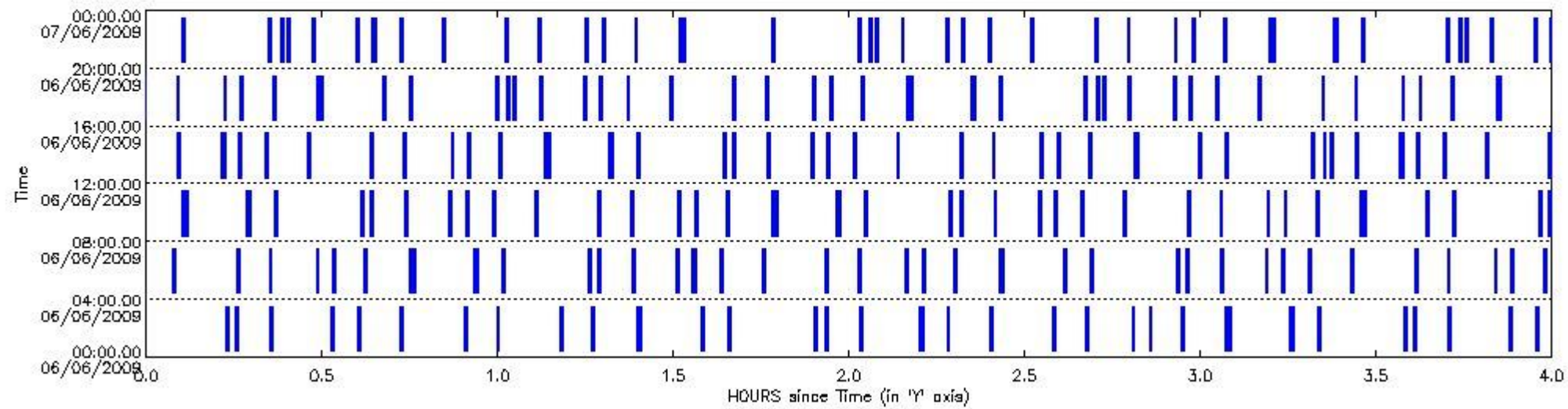
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

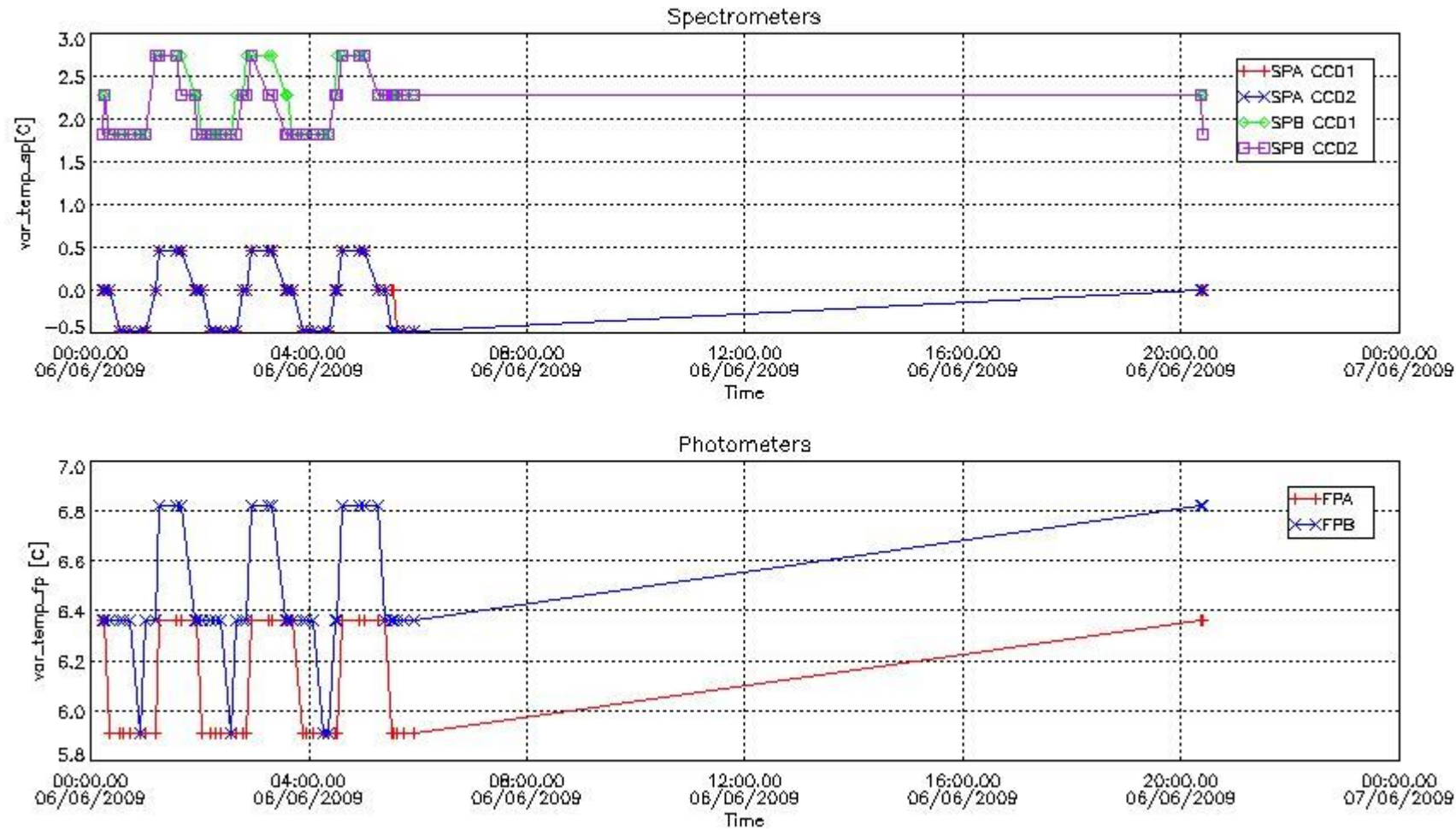
No missing products.

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_1PNPDE20090606_001332_000000332079_00360_37989_6717.N1	06-JUN-2009 00:13:32	Twilight	32.500	38	20Eps Sgr	1.8360	11000.	65	37989	No
2	GOM_TRA_1PNPDE20090606_001509_000000342079_00360_37989_6718.N1	06-JUN-2009 00:15:09	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37989	No
3	GOM_TRA_1PNPDE20090606_002106_000000292079_00360_37989_6719.N1	06-JUN-2009 00:21:06	Twilight	29.000	86	35Eta Oph	2.4300	10200.	58	37989	No
4	GOM_TRA_1PNPDE20090606_003128_000000372079_00360_37989_6720.N1	06-JUN-2009 00:31:28	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	37989	No
5	GOM_TRA_1PNPDE20090606_003605_000000312079_00360_37989_6721.N1	06-JUN-2009 00:36:05	Bright	30.500	133	40Zet Her	2.8070	6000.0	61	37989	No
6	GOM_TRA_1PNPDE20090606_004322_000000312079_00360_37989_6722.N1	06-JUN-2009 00:43:22	Bright	31.000	130	23Bet Dra	2.7990	5800.0	62	37989	No
7	GOM_TRA_1PNPDE20090606_005413_000000312079_00360_37989_6723.N1	06-JUN-2009 00:54:13	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37989	No
8	GOM_TRA_1PNPDE20090606_005946_000000252079_00360_37989_6724.N1	06-JUN-2009 00:59:46	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37989	No
9	GOM_TRA_1PNPDE20090606_011039_000000302079_00360_37989_6725.N1	06-JUN-2009 01:10:39	Twilight	29.500	58	21Alp And	2.0730	11000.	59	37989	No
10	GOM_TRA_1PNPDE20090606_011601_000000312079_00360_37989_6726.N1	06-JUN-2009 01:16:01	Dark	31.000	140	88Gam Peg	2.8340	26000.	62	37989	No
11	GOM_TRA_1PNPDE20090606_013439_000000412079_00360_37989_6849.N1	06-JUN-2009 01:34:39	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	37989	No
12	GOM_TRA_1PNPDE20090606_013922_000000342079_00361_37990_6850.N1	06-JUN-2009 01:39:22	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37990	No

13	GOM_TRA_1PNPDE20090606_015408_000000332079_00361_37990_6851.N1	06-JUN-2009 01:54:08	Twilight	32.500	38	20Eps Sgr	1.8360	11000.	65	37990	No
14	GOM_TRA_1PNPDE20090606_015546_000000332079_00361_37990_6852.N1	06-JUN-2009 01:55:46	Twilight	33.000	116	19Del Sgr	2.7000	4100.0	66	37990	No
15	GOM_TRA_1PNPDE20090606_020142_000000292079_00361_37990_6853.N1	06-JUN-2009 02:01:42	Twilight	29.000	86	35Eta Oph	2.4300	10200.	58	37990	No
16	GOM_TRA_1PNPDE20090606_021204_000000372079_00361_37990_6854.N1	06-JUN-2009 02:12:04	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	37990	No
17	GOM_TRA_1PNPDE20090606_021641_000000302079_00361_37990_6855.N1	06-JUN-2009 02:16:41	Bright	30.000	133	40Zet Her	2.8070	6000.0	60	37990	No
18	GOM_TRA_1PNPDE20090606_022357_000000322079_00361_37990_6856.N1	06-JUN-2009 02:23:57	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37990	No
19	GOM_TRA_1PNPDE20090606_023448_000000312079_00361_37990_6857.N1	06-JUN-2009 02:34:48	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	37990	No
20	GOM_TRA_1PNPDE20090606_024021_000000252079_00361_37990_7043.N1	06-JUN-2009 02:40:21	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37990	No
21	GOM_TRA_1PNPDE20090606_024825_000000232079_00361_37990_7044.N1	06-JUN-2009 02:48:25	Twilight	23.000	53	43Bet And	2.0480	3300.0	46	37990	No
22	GOM_TRA_1PNPDE20090606_025115_000000292079_00361_37990_7045.N1	06-JUN-2009 02:51:15	Straylight	29.000	58	21Alp And	2.0730	11000.	58	37990	No
23	GOM_TRA_1PNPDE20090606_025638_000000322079_00361_37990_7046.N1	06-JUN-2009 02:56:38	Dark	31.500	140	88Gam Peg	2.8340	26000.	63	37990	No
24	GOM_TRA_1PNPDE20090606_031515_000000412079_00361_37990_7047.N1	06-JUN-2009 03:15:15	Dark	41.000	18	24Alp PsA	1.1660	9700.0	82	37990	No
25	GOM_TRA_1PNPDE20090606_031959_000000342079_00362_37991_7048.N1	06-JUN-2009 03:19:59	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37991	No
26	GOM_TRA_1PNPDE20090606_033445_000000322079_00362_37991_7049.N1	06-JUN-2009 03:34:45	Twilight	32.000	38	20Eps Sgr	1.8360	11000.	64	37991	No
27	GOM_TRA_1PNPDE20090606_033622_000000342079_00362_37991_7050.N1	06-JUN-2009 03:36:22	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37991	No
28	GOM_TRA_1PNPDE20090606_034218_000000292079_00362_37991_7051.N1	06-JUN-2009 03:42:18	Twilight	28.500	86	35Eta Oph	2.4300	10200.	57	37991	No
29	GOM_TRA_1PNPDE20090606_035238_000000382079_00362_37991_7052.N1	06-JUN-2009 03:52:38	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	37991	No
30	GOM_TRA_1PNPDE20090606_035716_000000312079_00362_37991_7053.N1	06-JUN-2009 03:57:16	Bright	30.500	133	40Zet Her	2.8070	6000.0	61	37991	No
31	GOM_TRA_1PNPDE20090606_040432_000000322079_00362_37991_7054.N1	06-JUN-2009 04:04:32	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37991	No
32	GOM_TRA_1PNPDE20090606_041523_000000312079_00362_37991_7055.N1	06-JUN-2009 04:15:23	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37991	No
33	GOM_TRA_1PNPDE20090606_042057_000000252079_00362_37991_7200.N1	06-JUN-2009 04:20:57	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37991	No
34	GOM_TRA_1PNPDE20090606_042900_000000242079_00362_37991_7201.N1	06-JUN-2009 04:29:00	Twilight	23.500	53	43Bet And	2.0480	3300.0	47	37991	No
35	GOM_TRA_1PNPDE20090606_043152_000000292079_00362_37991_7202.N1	06-JUN-2009 04:31:52	Straylight	29.000	58	21Alp And	2.0730	11000.	58	37991	No
36	GOM_TRA_1PNPDE20090606_043714_000000322079_00362_37991_7203.N1	06-JUN-2009 04:37:14	Dark	31.500	140	88Gam Peg	2.8340	26000.	63	37991	No
37	GOM_TRA_1PNPDE20090606_045553_000000412079_00362_37991_7204.N1	06-JUN-2009 04:55:53	Dark	41.000	18	24Alp PsA	1.1660	9700.0	82	37991	No
38	GOM_TRA_1PNPDE20090606_050036_000000342079_00363_37992_7205.N1	06-JUN-2009 05:00:36	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37992	No
39	GOM_TRA_1PNPDE20090606_051521_000000322079_00363_37992_7206.N1	06-JUN-2009 05:15:21	Twilight	32.000	38	20Eps Sgr	1.8360	11000.	64	37992	No
40	GOM_TRA_1PNPDE20090606_051659_000000332079_00363_37992_7207.N1	06-JUN-2009 05:16:59	Twilight	33.000	116	19Del Sgr	2.7000	4100.0	66	37992	No
41	GOM_TRA_1PNPDE20090606_052254_000000292079_00363_37992_7208.N1	06-JUN-2009 05:22:54	Twilight	29.000	86	35Eta Oph	2.4300	10200.	58	37992	No
42	GOM_TRA_1PNPDE20090606_053031_000000262079_00363_37992_7209.N1	06-JUN-2009 05:30:31	Twilight	26.000	126	60Bet Oph	2.7700	4250.0	52	37992	No
43	GOM_TRA_1PNPDE20090606_053314_000000382079_00363_37992_7210.N1	06-JUN-2009 05:33:14	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	37992	No
44	GOM_TRA_1PNPDE20090606_053751_000000312079_00363_37992_7211.N1	06-JUN-2009 05:37:51	Bright	30.500	133	40Zet Her	2.8070	6000.0	61	37992	No
45	GOM_TRA_1PNPDE20090606_054507_000000322079_00363_37992_7212.N1	06-JUN-2009 05:45:07	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37992	No
46	GOM_TRA_1PNPDE20090606_055558_000000312079_00363_37992_7213.N1	06-JUN-2009 05:55:58	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37992	No
47	GOM_TRA_1PNPDE20090606_202049_000000322079_00372_38001_7778.N1	06-JUN-2009 20:20:49	Twilight	31.500	38	20Eps Sgr	1.8360	11000.	63	38001	No
48	GOM_TRA_1PNPDE20090606_202248_000000322079_00372_38001_7779.N1	06-JUN-2009 20:22:48	Twilight	32.000	57	34Sig Sgr	2.0660	26000.	64	38001	No
49	GOM_TRA_1PNPDE20090606_202352_000000352079_00372_38001_7780.N1	06-JUN-2009 20:23:52	Twilight	35.000	137	22Lam Sgr	2.8240	4400.0	70	38001	No

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



4. Overview of dark signal processing per product

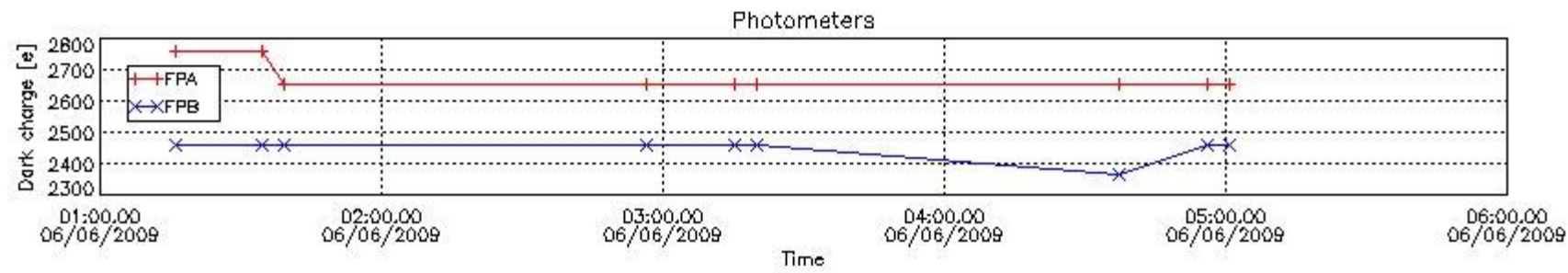
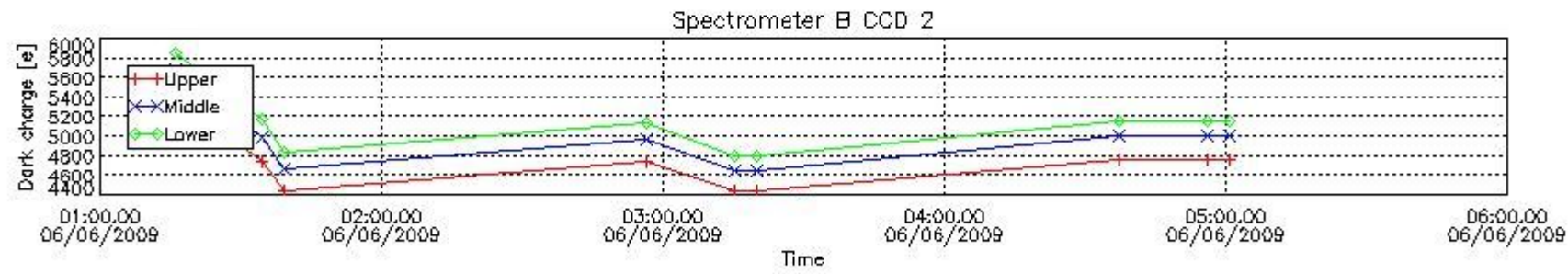
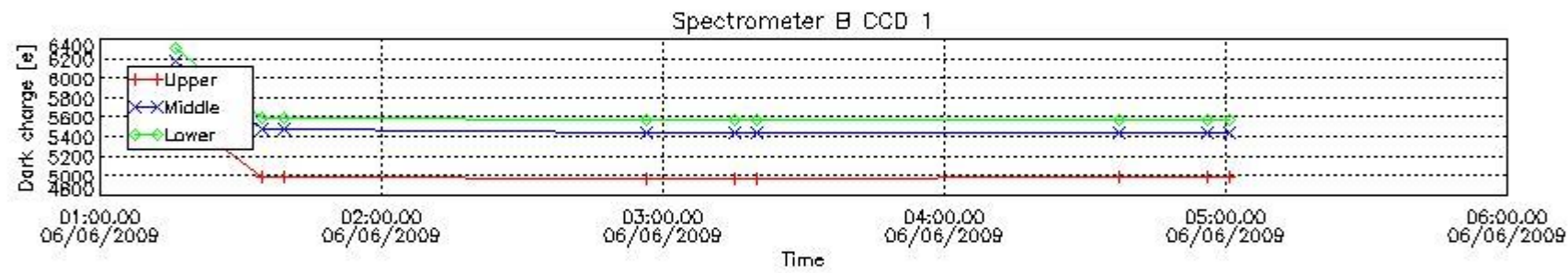
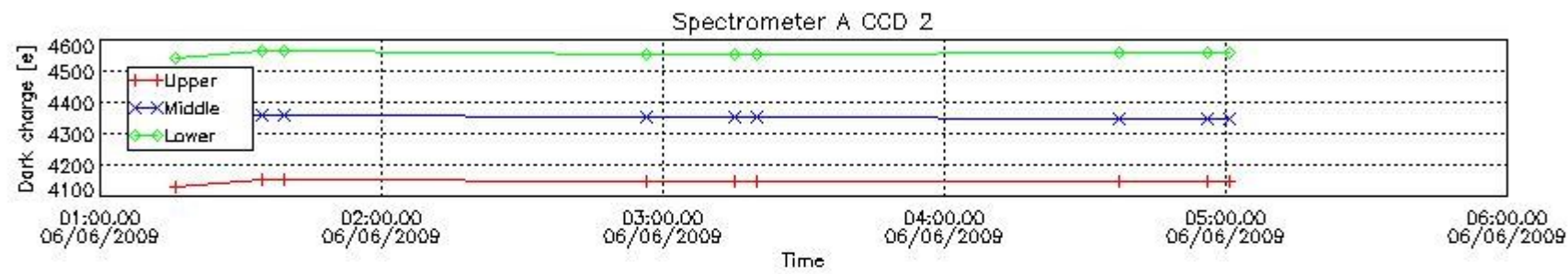
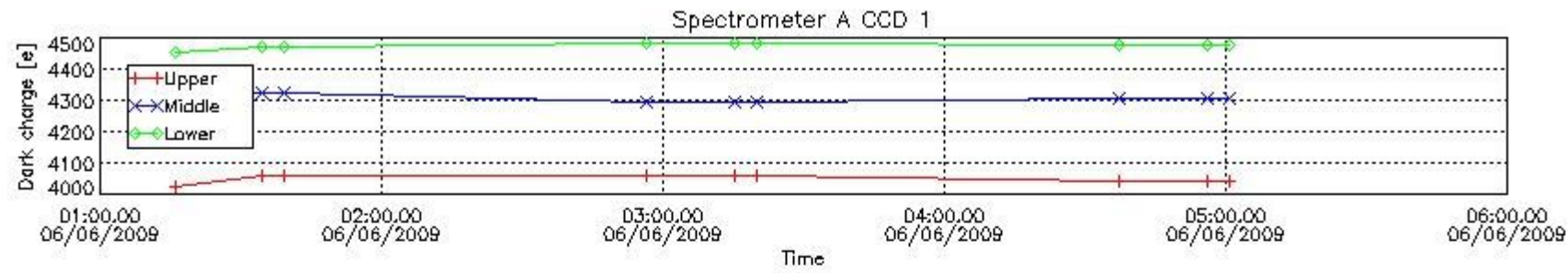
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090606_202049_000000322079_00372_38001_7778.N1	DC map used
GOM_TRA_1PNPDE20090606_202248_000000322079_00372_38001_7779.N1	DC map used
GOM_TRA_1PNPDE20090606_202352_000000352079_00372_38001_7780.N1	DC map used

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



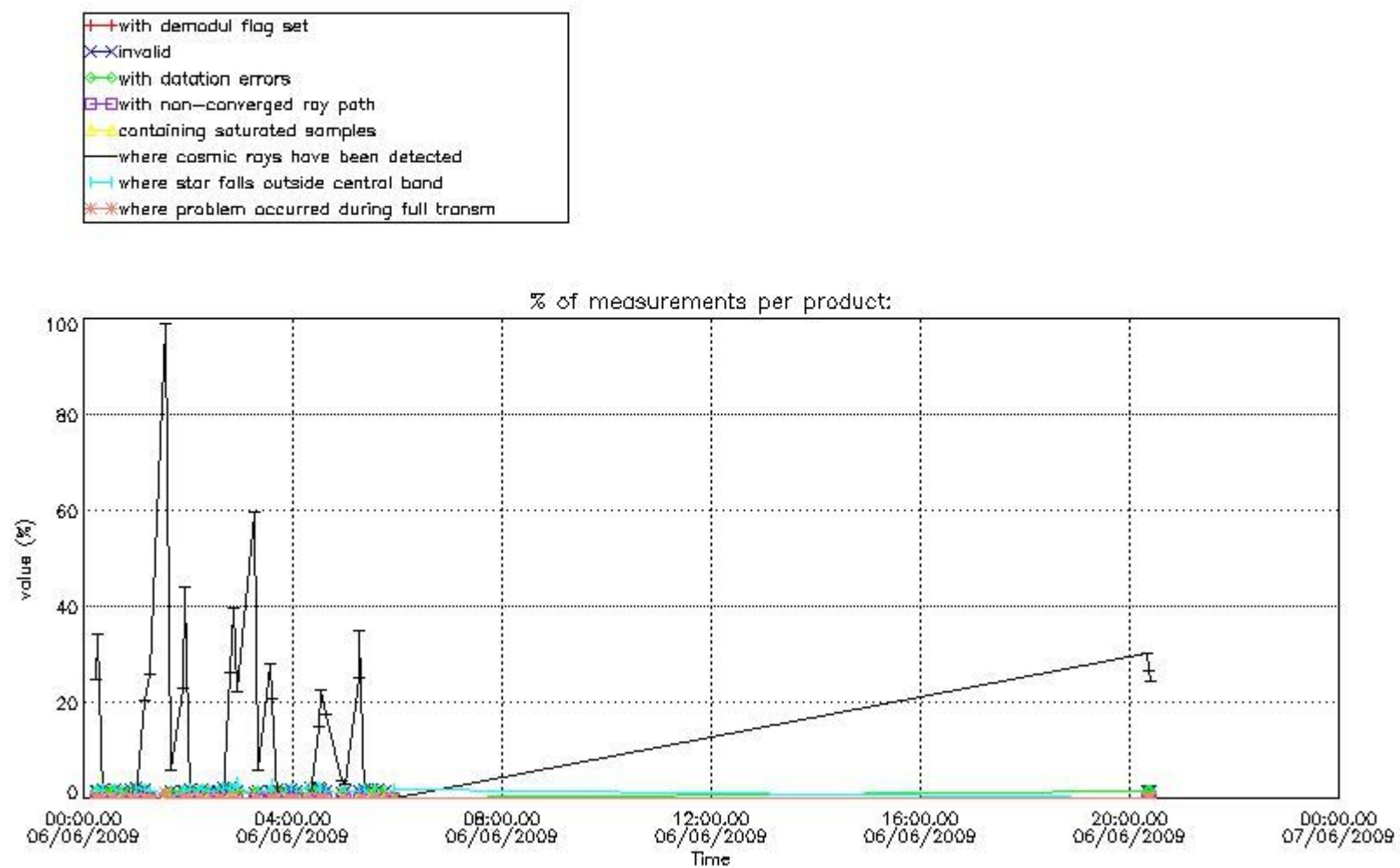
5. Demodulation flag and quality information monitoring

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.

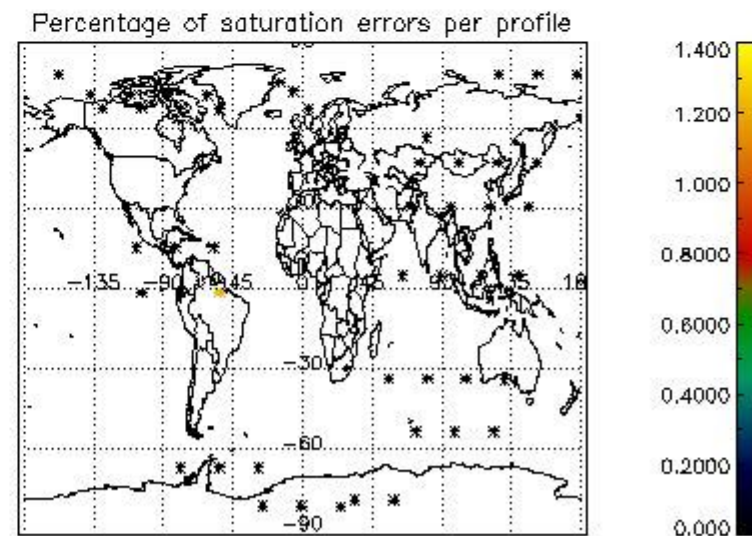
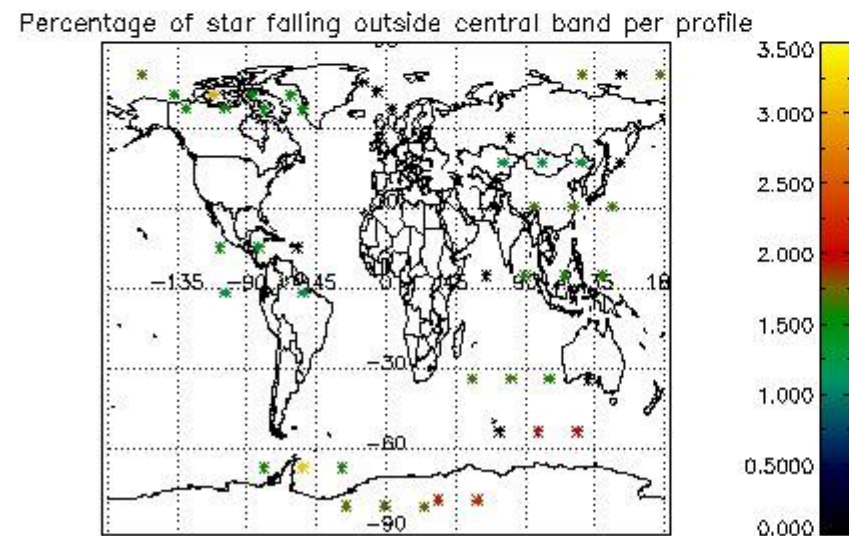
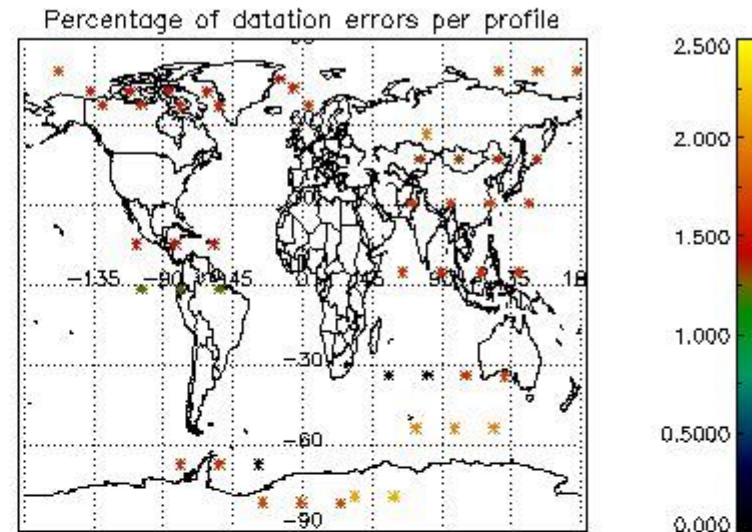
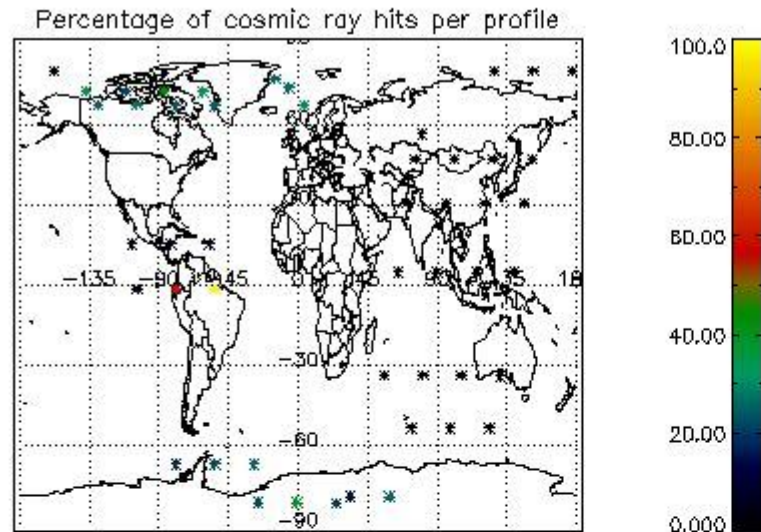
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6531 %
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)



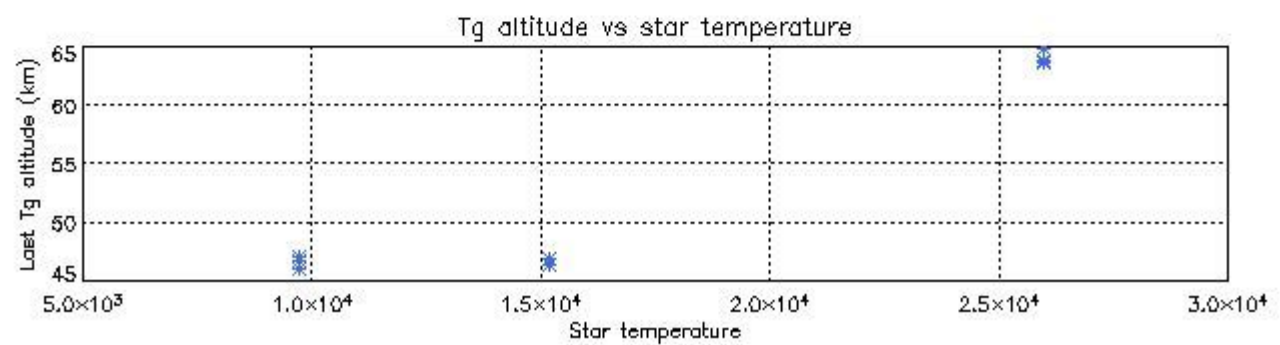
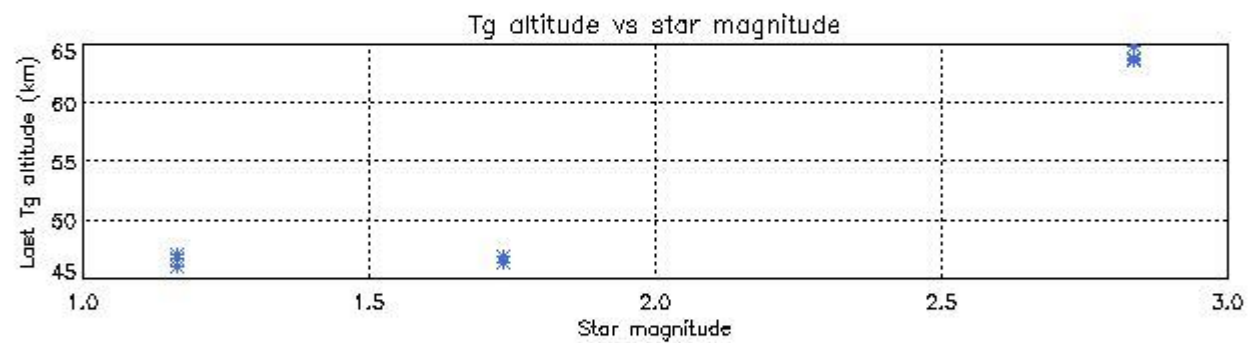
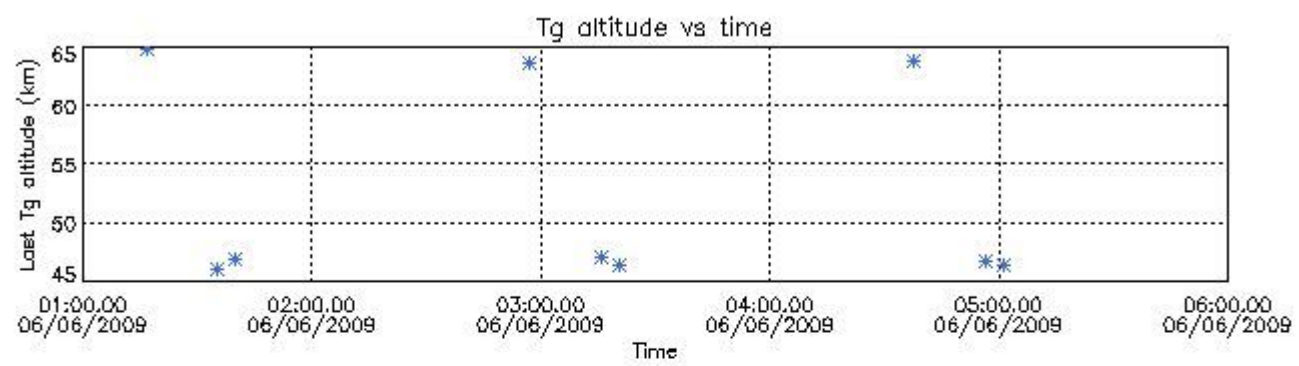
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	52.417	47.908	NaN
St. deviation:	8.7778	0.75513	NaN
Maximum:	64.851	48.766	NaN
Minimum:	46.097	46.357	NaN
Number of data:	9.0000	12.000	NaN

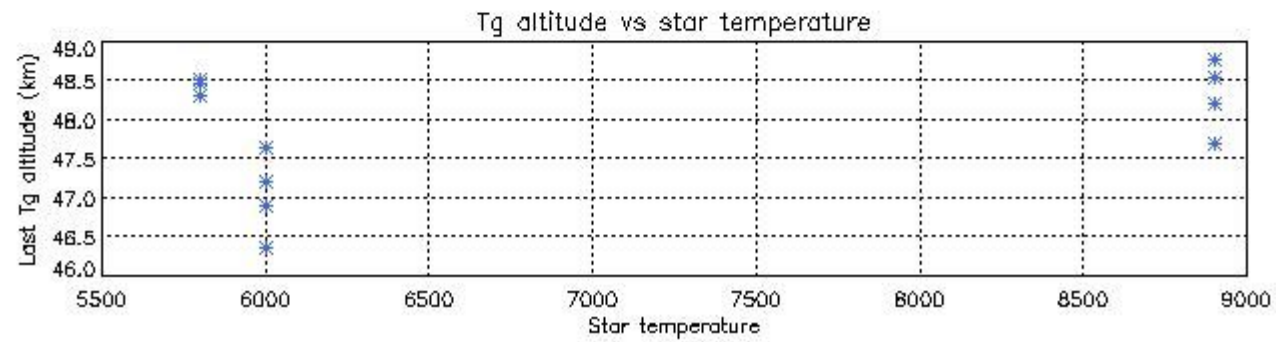
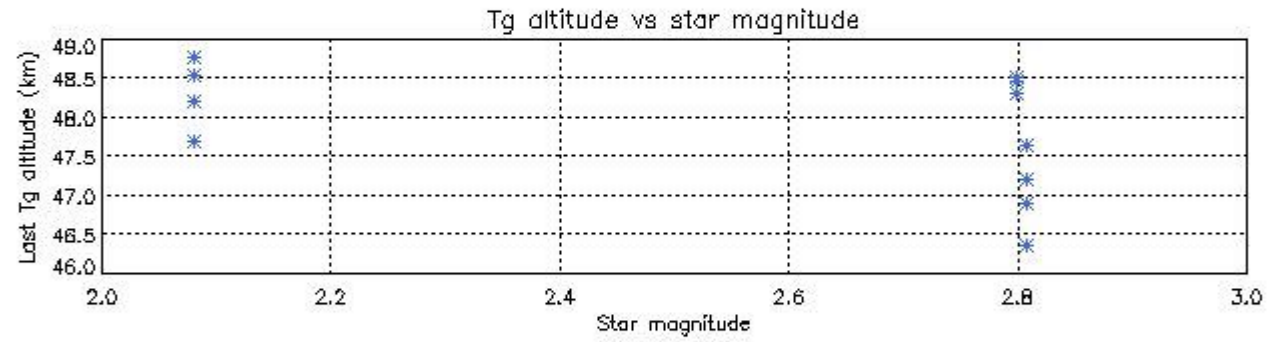
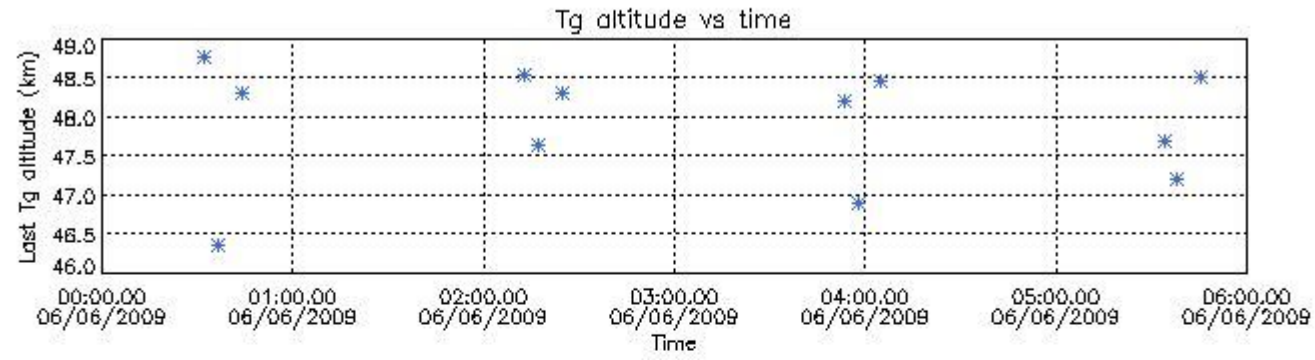
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

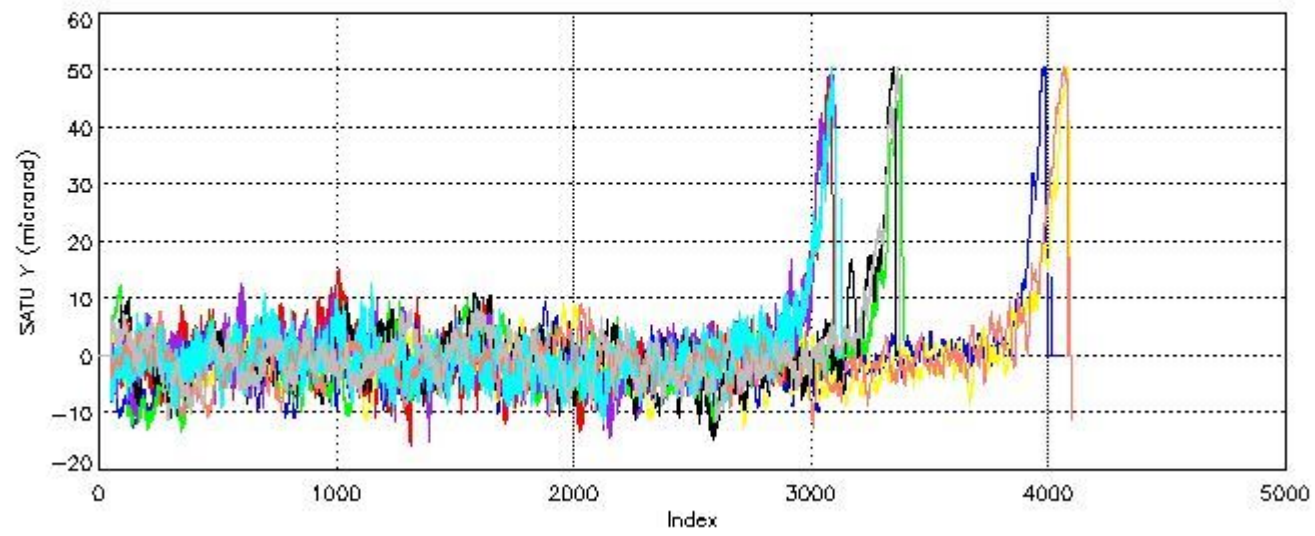
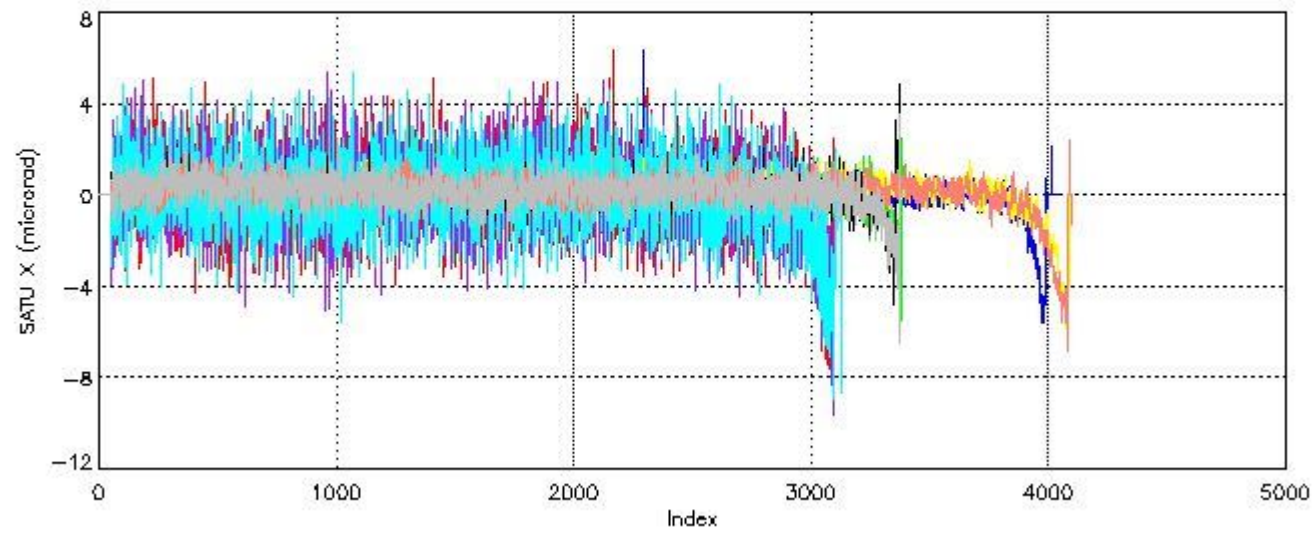


7. Star Acquisition and Tracking Unit (SATU)

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:	0.31158	-1.2659	0.33694	-1.4970
St. deviation:	0.86102	3.7947	0.86410	3.1322
Maximum:	5.4000	15.100	3.9000	11.500
Minimum:	-5.6000	-13.400	-3.3000	-13.500

Number of data:	11250.	11250.	12850.	12850.
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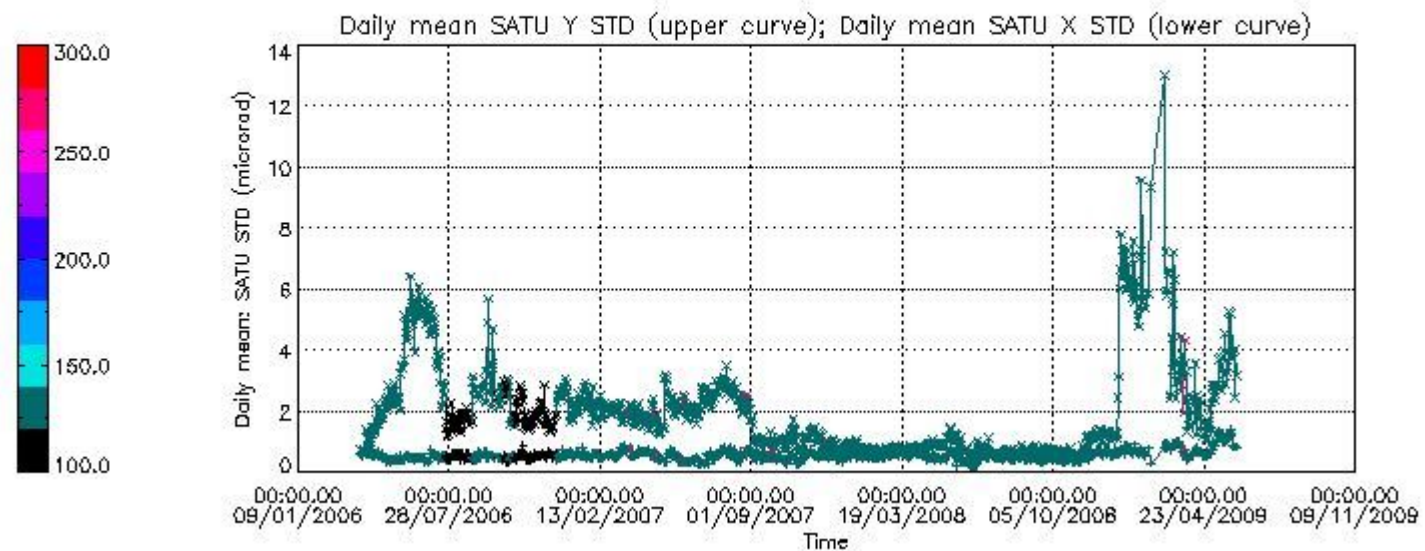
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

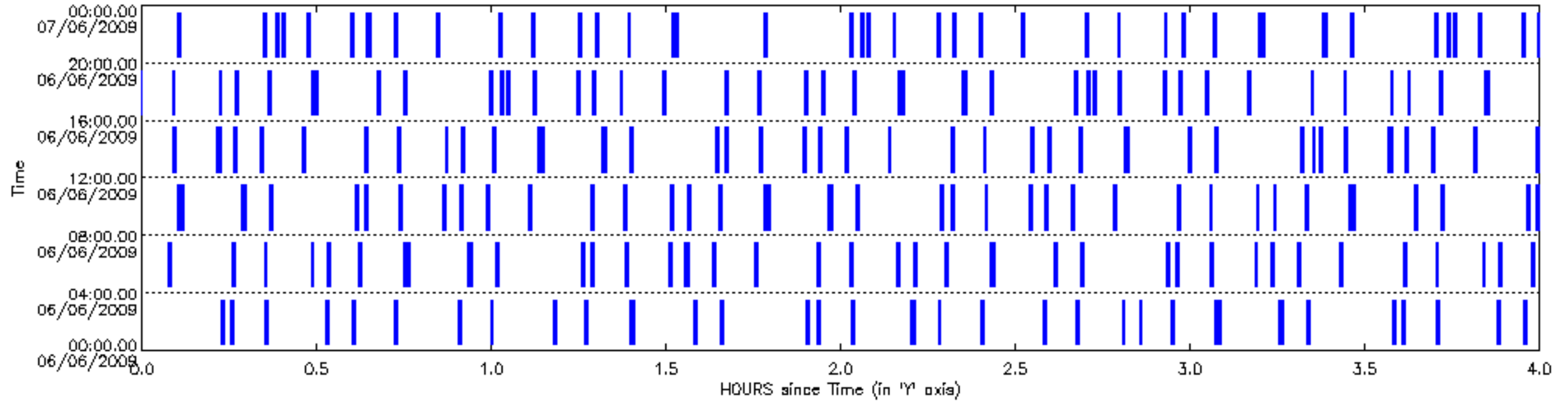
Lower curve: STD of SATU X axis

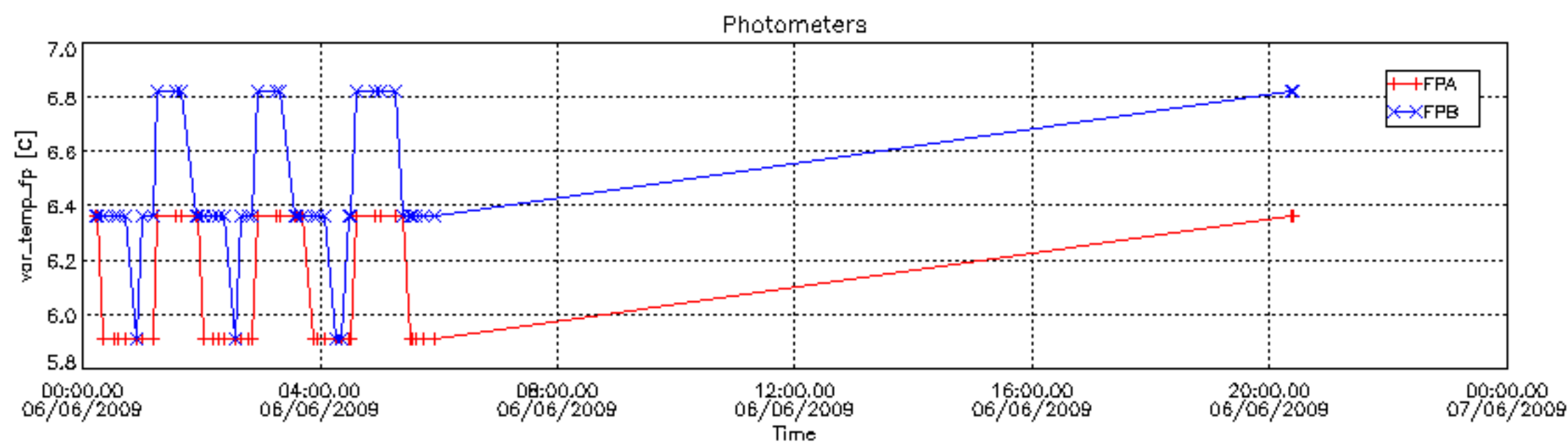
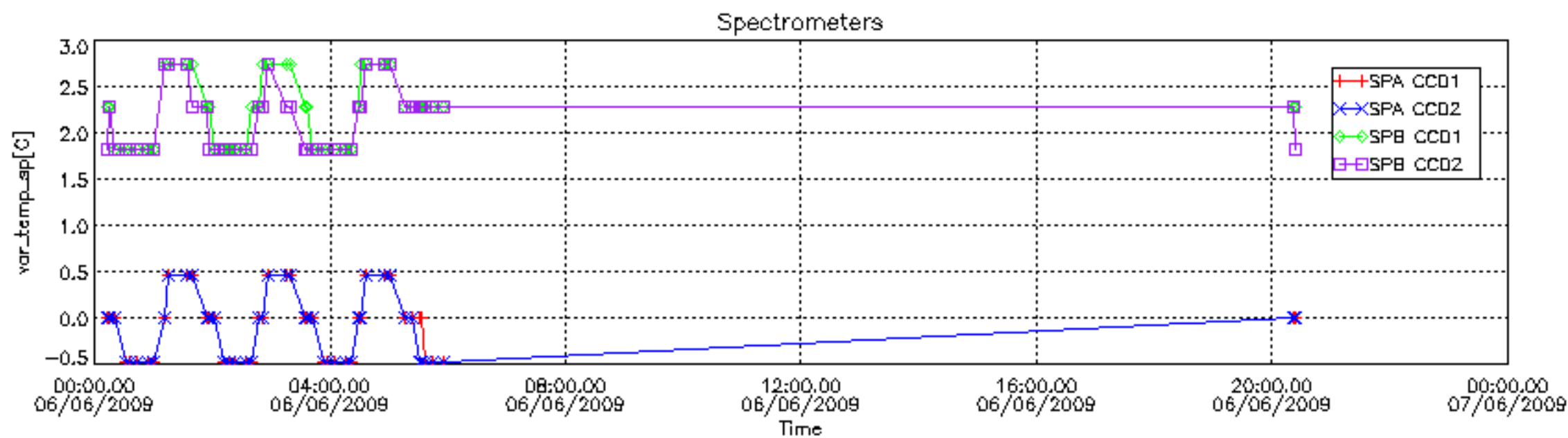


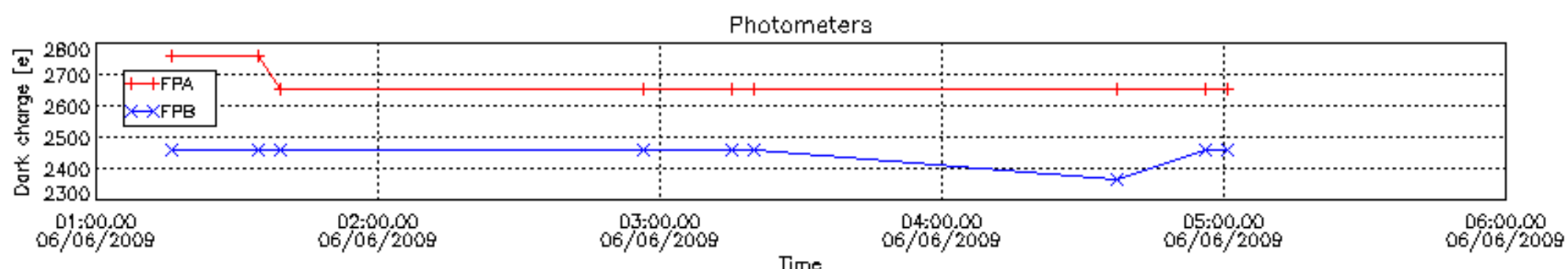
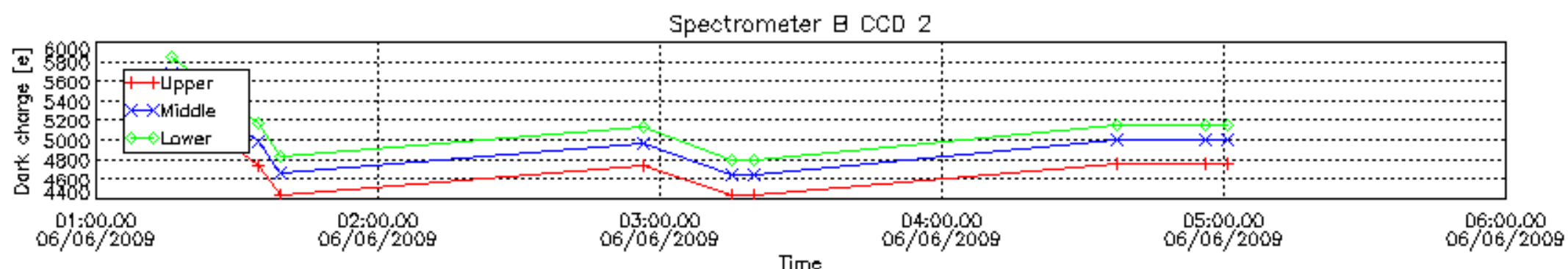
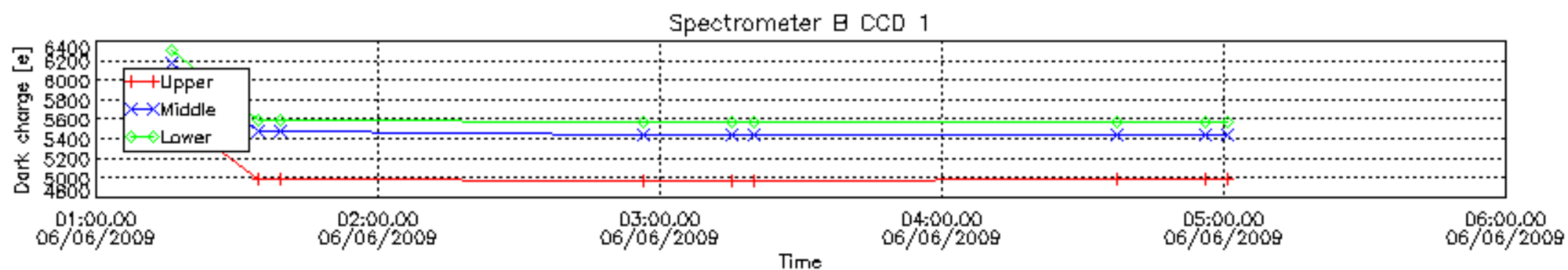
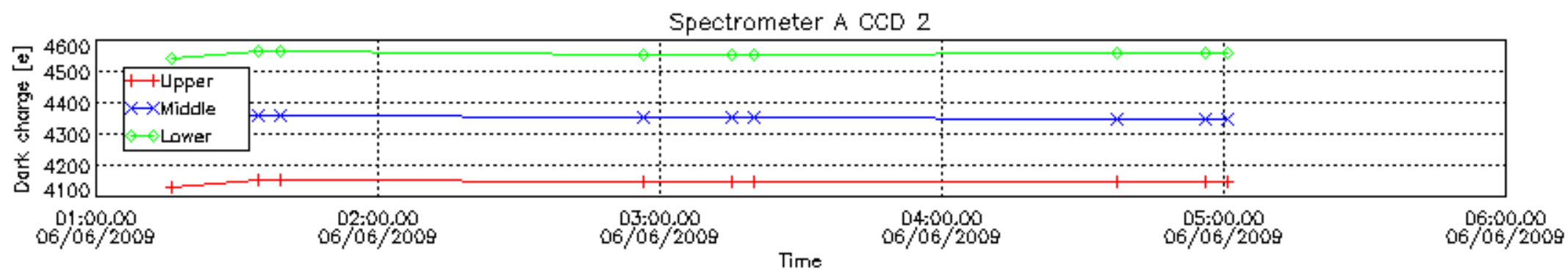
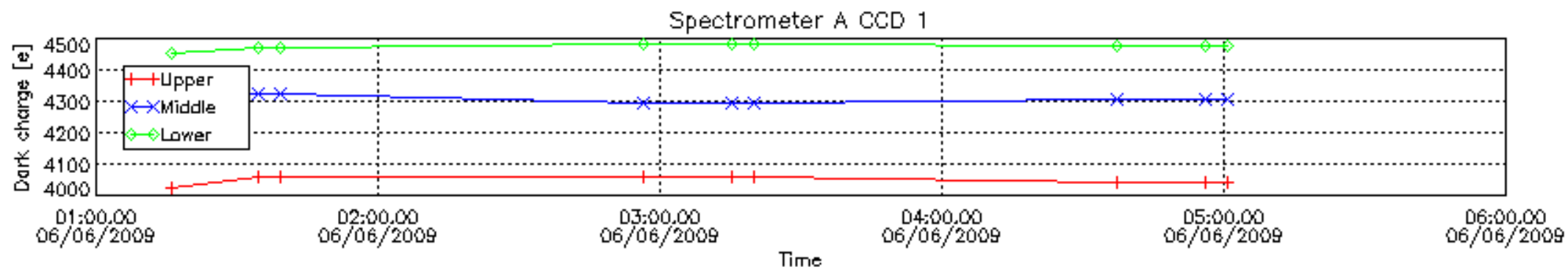
8. Auxiliary Data Files used for the production reported in section 2.4

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.

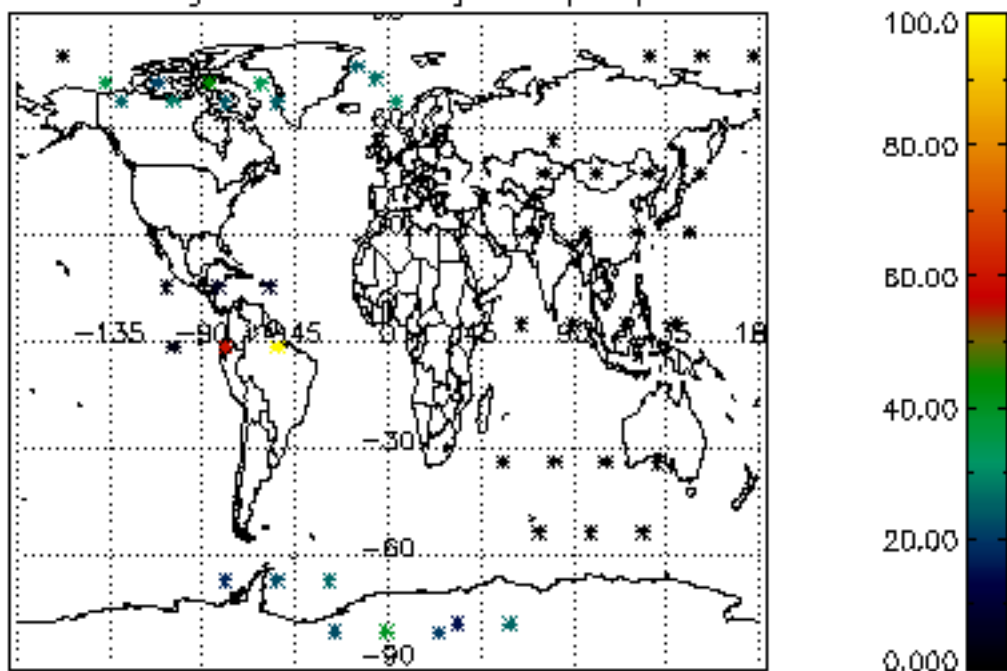
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	06-JUN-2009 00:13:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-JUN-2009 00:13:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JUN-2009 00:13:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-JUN-2009 00:13:32
ECMWF_FILE	AUX_ECF_AXNECM20090605_064113_20090605_210000_20090606_090000	1	06-JUN-2009 00:13:32
ECMWF_FILE	AUX_ECF_AXNECM20090605_184112_20090606_030000_20090606_150000	33	06-JUN-2009 04:20:57
ECMWF_FILE	AUX_ECF_AXNECM20090606_064113_20090606_150000_20090607_030000	47	06-JUN-2009 20:20:49
OPTIONAL_ECMWF_FILE	MISSING	1	06-JUN-2009 00:13:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090605_215554_000060572079_00358_37987_8093.N1	1	06-JUN-2009 00:13:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090605_234210_000054192079_00359_37988_8094.N1	11	06-JUN-2009 01:34:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090606_011748_000044632079_00360_37989_8095.N1	20	06-JUN-2009 02:40:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090606_023730_000054192079_00361_37990_8096.N1	33	06-JUN-2009 04:20:57
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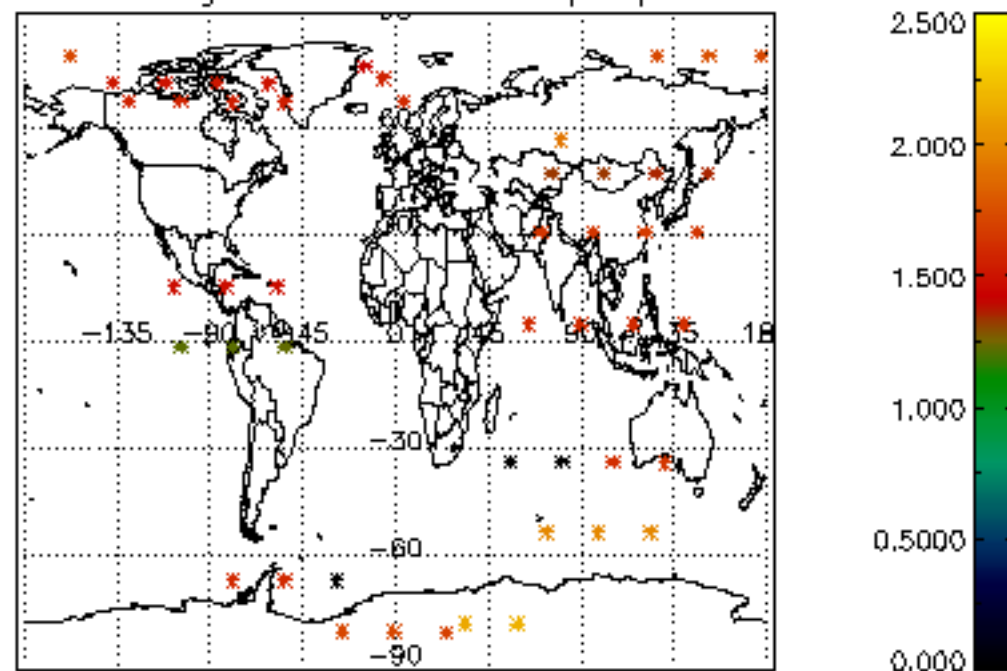




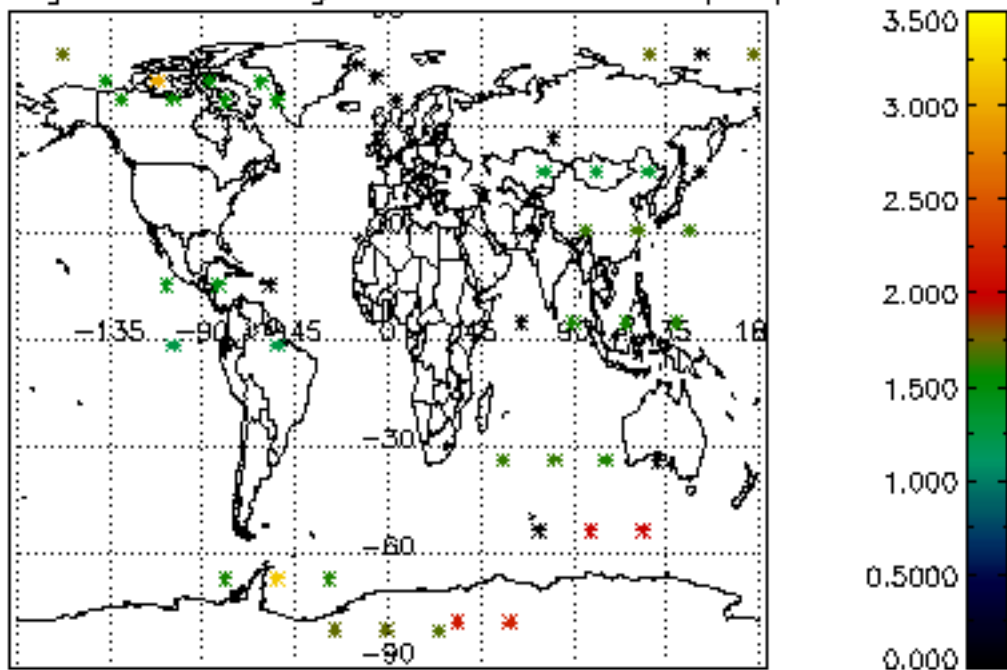
Percentage of cosmic ray hits per profile



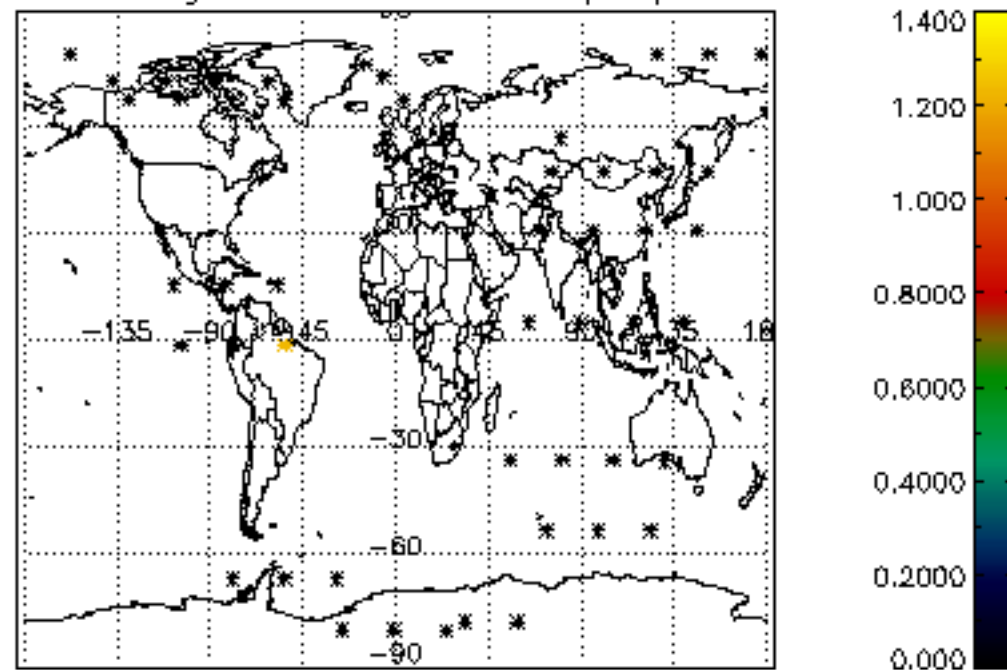
Percentage of datation errors per profile



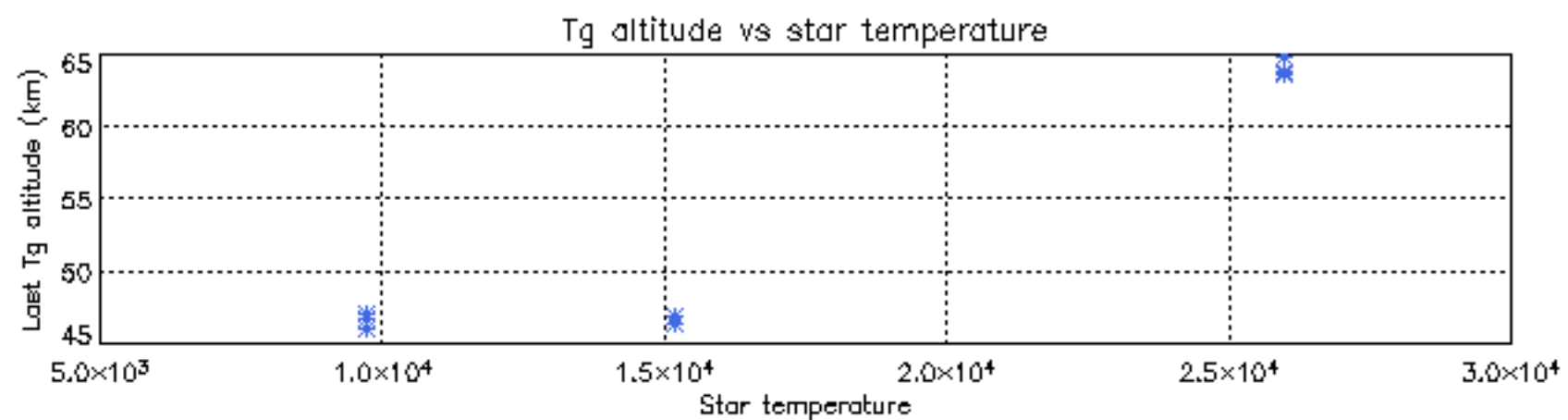
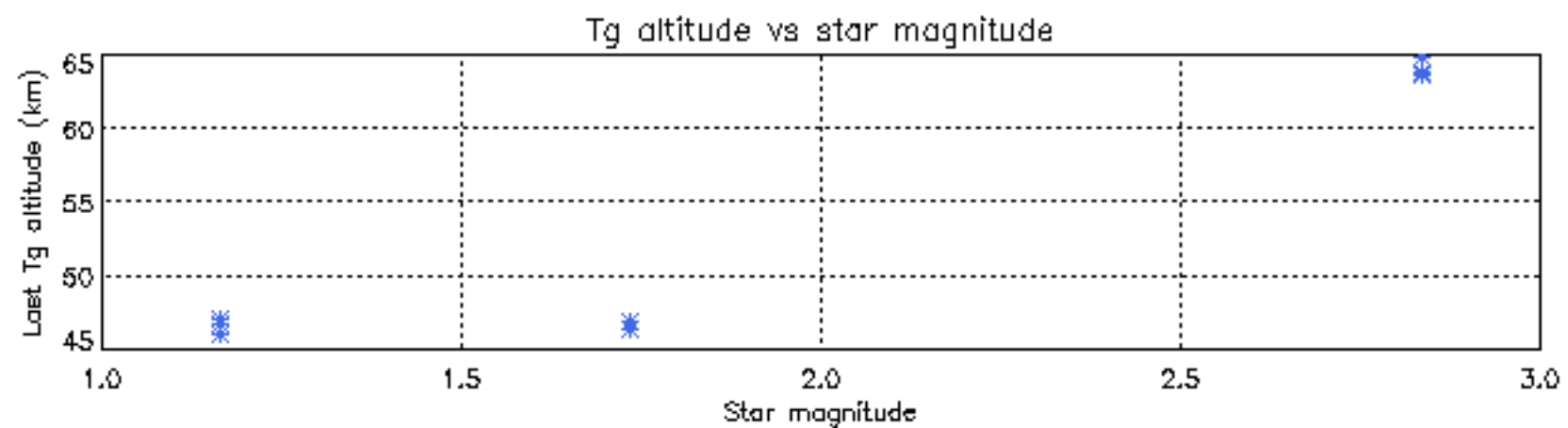
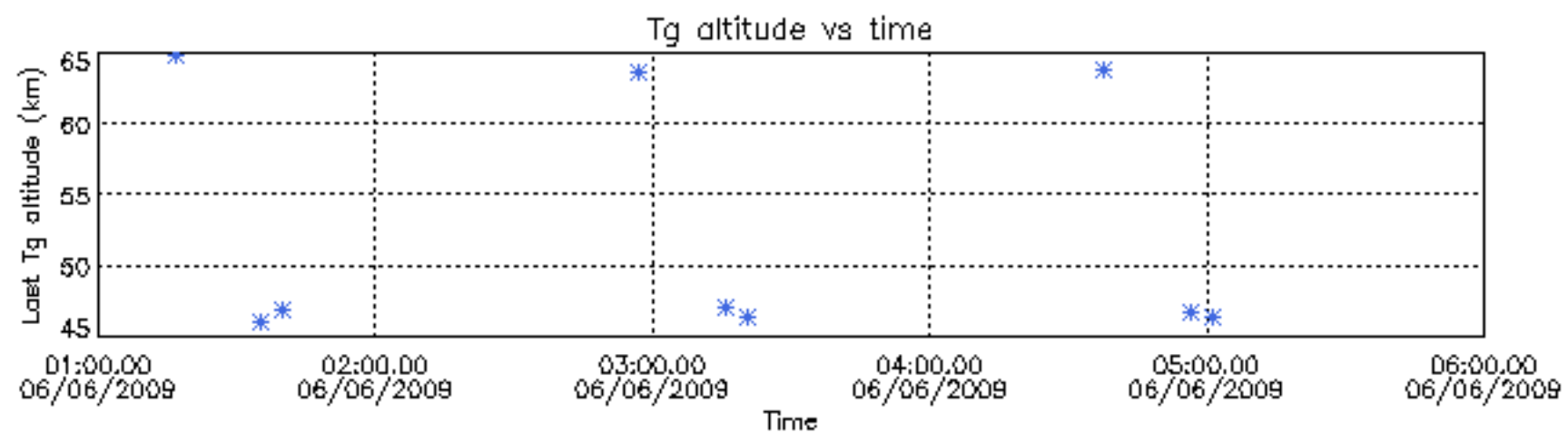
Percentage of star falling outside central band per profile



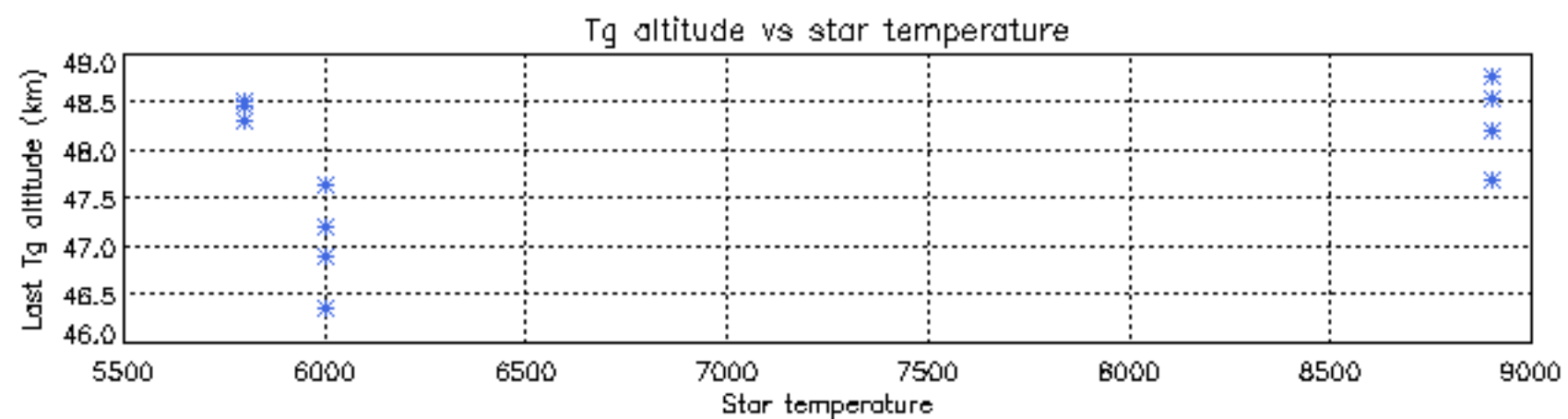
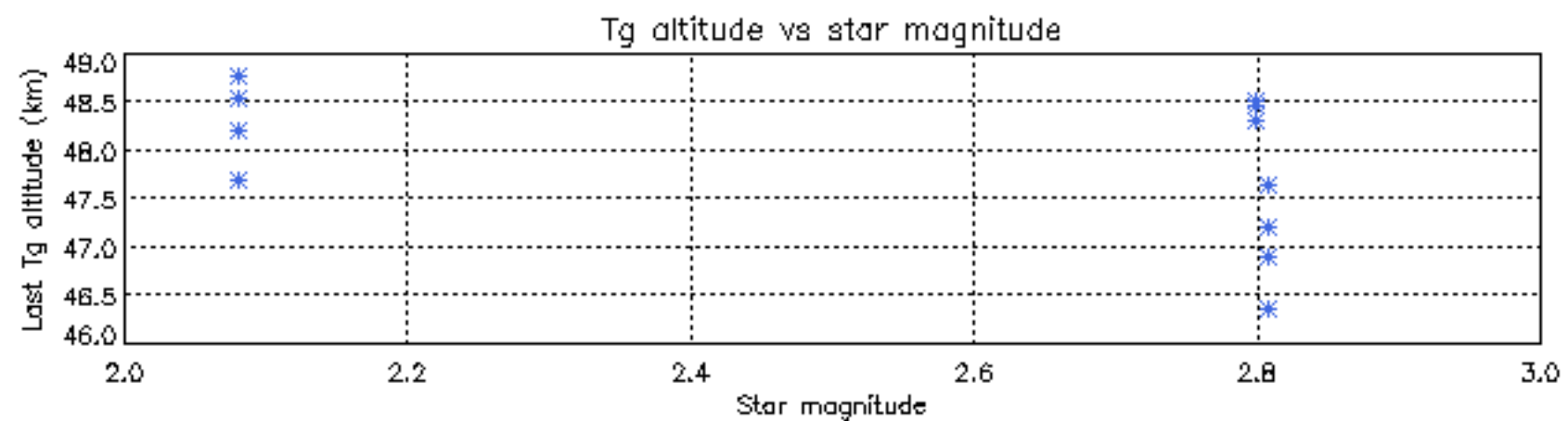
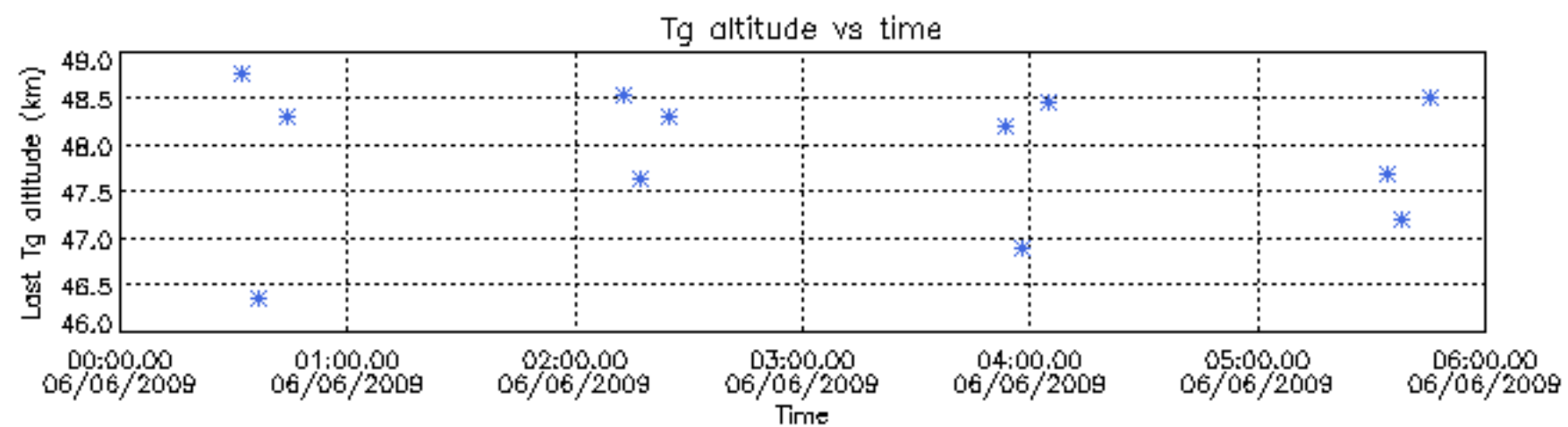
Percentage of saturation errors per profile

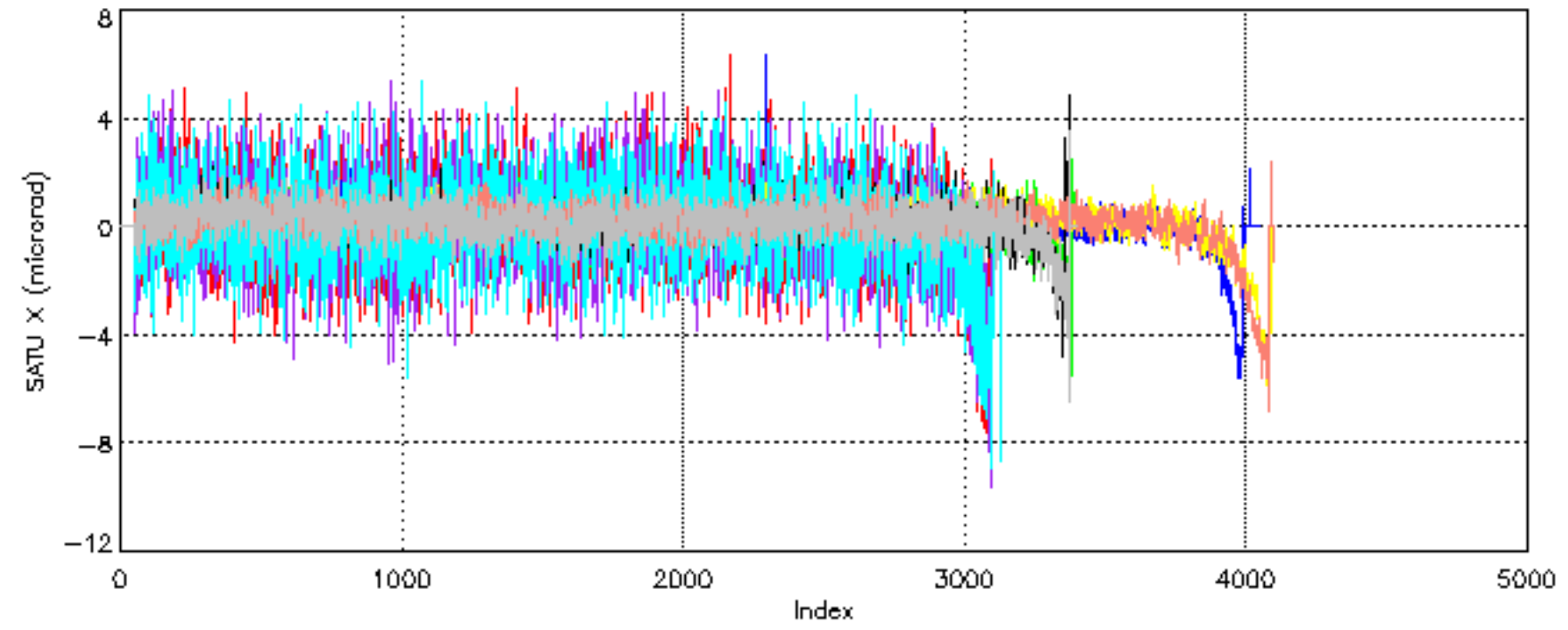


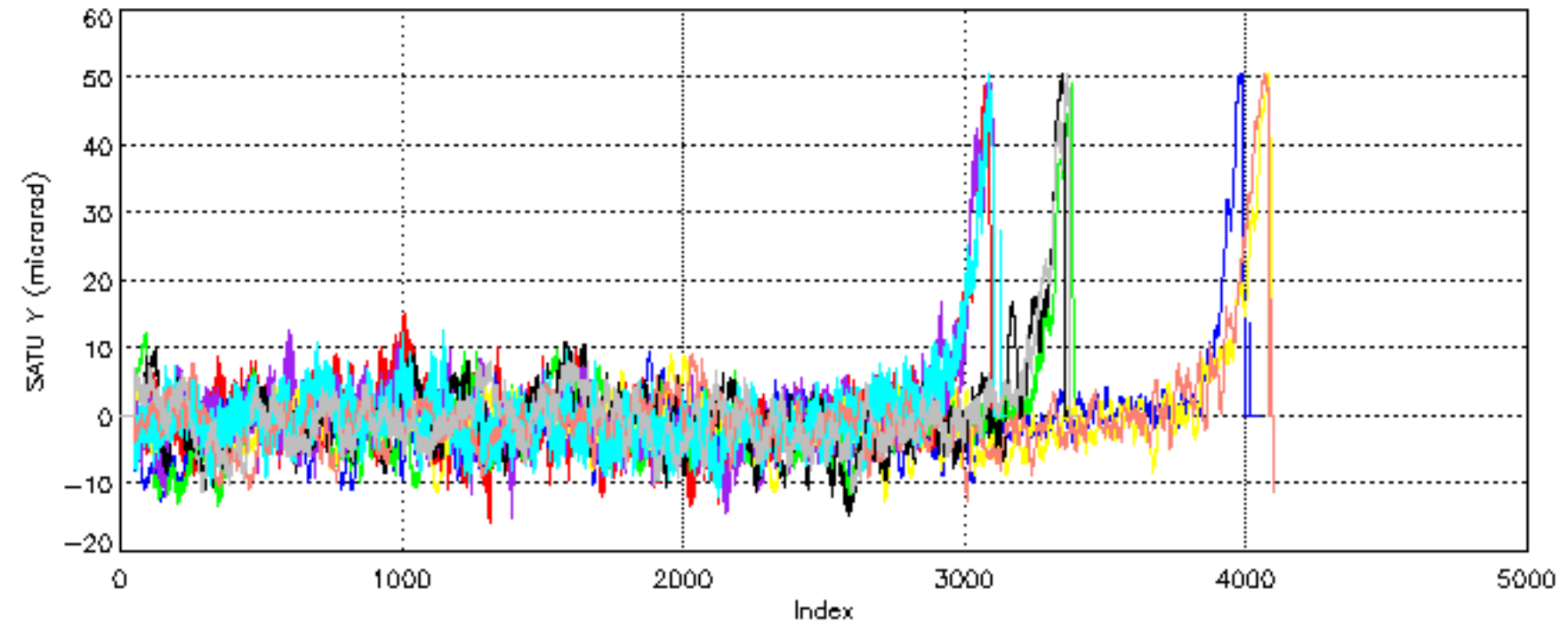
Tangent altitude at which the star is lost

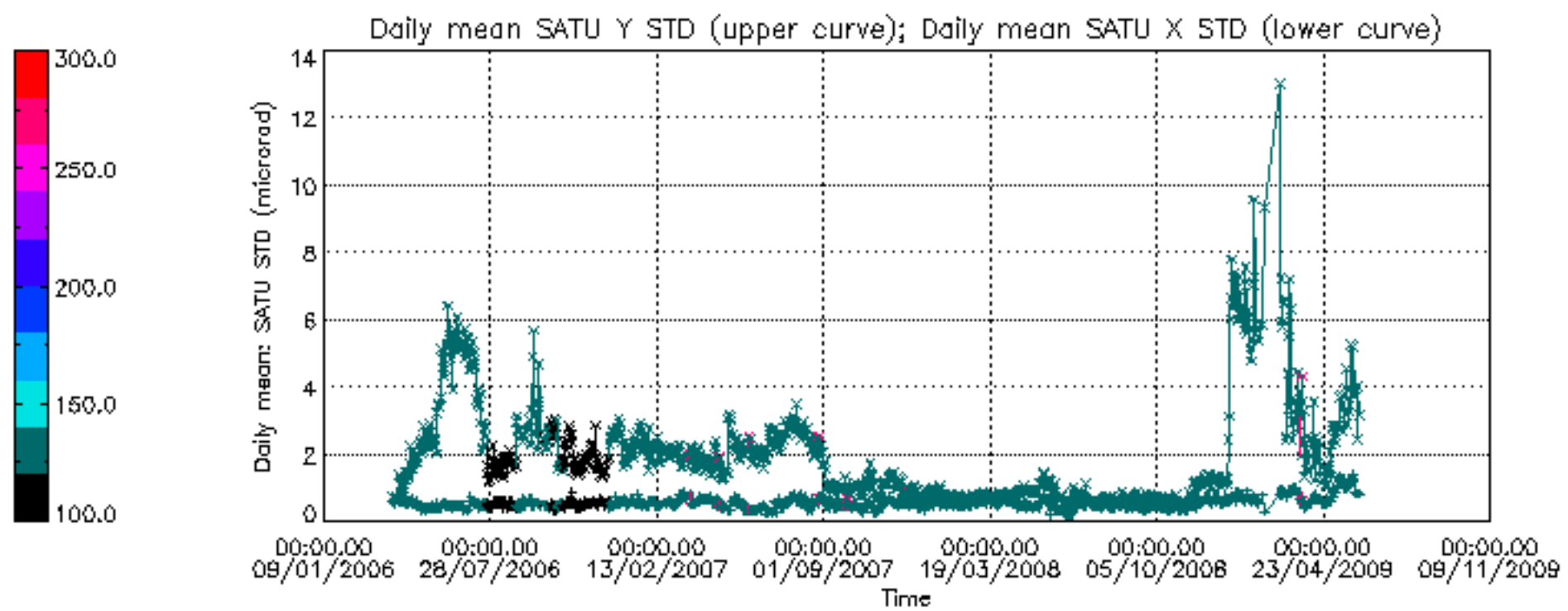


Tangent altitude at which the star is lost









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6; 2952.7; 03-JUN-2009 19:04:31; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37957
7; 3604.8; 03-JUN-2009 19:15:23; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37957
8; 3925.7; 03-JUN-2009 19:20:44; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37957
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8; 2508.2; 04-JUN-2009 03:20:06; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37962
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7; 3595.5; 04-JUN-2009 20:24:12; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37972
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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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 5; 1333.1; 06-JUN-2009 22:04:28; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38002
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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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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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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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5; 86.6; 11-JUN-2009 07:21:25; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38065
6; 210.9; 11-JUN-2009 07:23:29; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38065
7; 332.4; 11-JUN-2009 07:25:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38065
8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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2; 2181.8; 11-JUN-2009 07:56:20; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;38065
3; 2895.2; 11-JUN-2009 08:08:14; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38065
4; 3535.5; 11-JUN-2009 08:18:54; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38065
5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38065
6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
7; 5389.2; 11-JUN-2009 08:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38065
8; 5501.8; 11-JUN-2009 08:51:40; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38065
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13; 7215.7; 11-JUN-2009 09:20:14; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
5; 3898.3; 11-JUN-2009 10:05:33; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;38066
6; 4406.9; 11-JUN-2009 10:14:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38066
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6; 427.0; 11-JUN-2009 10:48:17; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
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2; 1301.9; 11-JUN-2009 21:06:28; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38073
3; 2023.1; 11-JUN-2009 21:18:29; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38073

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6; 3530.5; 11-JUN-2009 21:43:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38073
7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
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4; 219.4; 11-JUN-2009 22:29:01; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38074
5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
8; 1302.2; 11-JUN-2009 22:47:04; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38074
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10; 2178.4; 11-JUN-2009 23:01:40; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38074
11; 2891.3; 11-JUN-2009 23:13:33; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38074
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13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
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10; 2177.9; 12-JUN-2009 00:42:16; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38075
11; 2891.0; 12-JUN-2009 00:54:09; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38075
12; 3529.0; 12-JUN-2009 01:04:47; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38075
13; 3895.4; 12-JUN-2009 01:10:53; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38075
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4; 3897.6; 11-JUN-2009 11:46:08; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38067
5; 4406.8; 11-JUN-2009 11:54:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38067
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8; 6127.5; 11-JUN-2009 12:23:18; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38067
9; 6249.9; 11-JUN-2009 12:25:20; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38067
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11; 6464.1; 11-JUN-2009 12:28:54; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
12; 7216.3; 11-JUN-2009 12:41:27; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
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13; 7216.8; 11-JUN-2009 14:22:03; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38068
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13; 7217.5; 11-JUN-2009 16:02:40; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38069
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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
10; 2177.5; 12-JUN-2009 02:22:51; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38076

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6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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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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11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 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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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
5; 2885.6; 12-JUN-2009 21:01:15; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38087
6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
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6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
5; 1185.5; 12-JUN-2009 08:48:43; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 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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 3; 124.7; 12-JUN-2009 23:36:26; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38089
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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
10; 2172.3; 13-JUN-2009 00:10:33; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38089
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13; 3891.1; 13-JUN-2009 00:39:12; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38089
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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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 4; 3523.7; 12-JUN-2009 14:29:29; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38083
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6; 4409.0; 13-JUN-2009 10:51:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38095
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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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3; 1366.4; 13-JUN-2009 18:23:42; Bright; 32.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 64; 0;38100
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 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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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
 10; 5572.7; 16-JUN-2009 11:16:34; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38138
 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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 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
14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140
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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2; 1329.0; 16-JUN-2009 16:48:14; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38142
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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2; 1329.2; 16-JUN-2009 18:28:50; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38143
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
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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
15; 2784.2; 17-JUN-2009 04:56:41; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38149
16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
17; 3479.4; 17-JUN-2009 05:08:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38149
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3; -1623.5; 17-JUN-2009 05:23:49; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38149
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
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
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 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
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 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
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6; 589.1; 19-JUN-2009 23:24:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38189
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9; 1447.1; 19-JUN-2009 23:38:21; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38189
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3; 2757.3; 19-JUN-2009 10:35:24; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38181
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 5; 2835.4; 22-JUN-2009 15:44:14; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38227
 6; 3872.7; 22-JUN-2009 16:01:32; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38227
 7; 4065.3; 22-JUN-2009 16:04:44; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38227
 8; 4270.9; 22-JUN-2009 16:08:10; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38227
 9; 4415.3; 22-JUN-2009 16:10:34; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38227
 10; 4644.7; 22-JUN-2009 16:14:24; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38227
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 13; 6406.2; 22-JUN-2009 16:43:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38227
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 3; 1401.3; 22-JUN-2009 17:00:56; Bright; 29.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 58; 0;38228
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 5; 2135.0; 22-JUN-2009 17:13:10; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38228
 6; 2835.0; 22-JUN-2009 17:24:50; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38228
 7; 3872.1; 22-JUN-2009 17:42:07; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38228
 8; 4065.0; 22-JUN-2009 17:45:20; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38228
 9; 4415.3; 22-JUN-2009 17:51:10; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38228
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 15; 6529.4; 22-JUN-2009 18:26:24; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38228
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 6; 2135.1; 22-JUN-2009 18:53:46; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38229
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 8; 2834.9; 22-JUN-2009 19:05:26; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38229
 9; 3872.2; 22-JUN-2009 19:22:43; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38229
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 12; 4415.2; 22-JUN-2009 19:31:46; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38229
 13; 4645.2; 22-JUN-2009 19:35:36; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38229
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 17; 6408.1; 22-JUN-2009 20:04:59; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38229
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5; 686.1; 23-JUN-2009 01:12:01; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38233
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6; 1241.7; 23-JUN-2009 03:01:52; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38234
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2;-2121.0; 26-JUN-2009 05:32:46; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38278
3;-1970.8; 26-JUN-2009 05:35:16; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38278
4;-1766.1; 26-JUN-2009 05:38:41; Bright; 24.0; 73; 57Gam1And ; 2.26; 13100;occ; 48; 0;38278
5;-1616.6; 26-JUN-2009 05:41:11; Dark ; 24.0; 173; 4Bet Tri ; 3.00; 8900;occ; 48; 0;38278
6;-1377.3; 26-JUN-2009 05:45:10; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38278
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3; 2721.5; 26-JUN-2009 20:18:16; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
4; 3319.4; 26-JUN-2009 20:28:14; Bright; 52.5; 0; ; 0.00; 0;occ; 105; 0;38287
5; 3535.3; 26-JUN-2009 20:31:50; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
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3; 2660.0; 29-JUN-2009 20:22:59; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;38330
4; 2938.0; 29-JUN-2009 20:27:37; Bright; 51.0; 144; 18Del Cyg ; 2.86; 11000;occ; 102; 0;38330
5; 3354.9; 29-JUN-2009 20:34:34; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38330
6; 3793.5; 29-JUN-2009 20:41:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38330
7; 3894.1; 29-JUN-2009 20:43:34; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;38330
8; 4267.8; 29-JUN-2009 20:49:47; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38330
9; 4423.7; 29-JUN-2009 20:52:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38330
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3; 471.4; 29-JUN-2009 21:27:07; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38331
4; 588.9; 29-JUN-2009 21:29:04; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38331
5; 759.2; 29-JUN-2009 21:31:55; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;38331
6; 1477.7; 29-JUN-2009 21:43:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38331
7; 2241.1; 29-JUN-2009 21:56:36; Bright; 51.5; 168; 17Zet Aql ; 2.99; 11000;occ; 103; 0;38331

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3; 472.5; 29-JUN-2009 23:07:44; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38332
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5; 760.5; 29-JUN-2009 23:12:32; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38332
6; 1478.0; 29-JUN-2009 23:24:29; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38332
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3; 582.7; 29-JUN-2009 09:44:47; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38324
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2; 2663.3; 29-JUN-2009 10:19:27; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38324
3; 2943.1; 29-JUN-2009 10:24:07; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38324
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5; 3796.6; 29-JUN-2009 10:38:20; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38324
6; 3896.5; 29-JUN-2009 10:40:00; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;38324
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8; 4423.2; 29-JUN-2009 10:48:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38324
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13; 6619.4; 29-JUN-2009 11:25:23; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38324
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3; 2942.1; 29-JUN-2009 12:04:42; Bright; 52.0; 144; 18Del Cyg ; 2.86; 11000;occ; 104; 0;38325
4; 3358.5; 29-JUN-2009 12:11:38; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38325
5; 3796.2; 29-JUN-2009 12:18:56; Bright; 69.0; 74; 11Bet Cas ; 2.27; 6600;occ; 138; 0;38325
6; 3896.5; 29-JUN-2009 12:20:36; Bright; 42.5; 68; 18Alp Cas ; 2.22; 4500;occ; 85; 0;38325
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8; 4423.5; 29-JUN-2009 12:29:23; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38325
9; 4672.9; 29-JUN-2009 12:33:33; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38325
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13; 6620.4; 29-JUN-2009 13:06:00; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38325
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5; 3795.8; 29-JUN-2009 13:59:31; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38326

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3; 2661.2; 29-JUN-2009 17:01:49; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;38328
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9; 4423.7; 29-JUN-2009 19:11:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38329
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3; 473.2; 30-JUN-2009 00:48:20; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;38333
4; 590.9; 30-JUN-2009 00:50:18; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38333
5; 761.2; 30-JUN-2009 00:53:08; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38333
6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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14; 4423.9; 30-JUN-2009 01:54:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38333
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 5; 762.6; 30-JUN-2009 02:33:46; Dark ; 61.0; 172; Gam Gru ; 3.00; 13100;occ; 122; 0;38334
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 4; 2924.2; 30-JUN-2009 21:36:23; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38345
 5; 3345.0; 30-JUN-2009 21:43:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38345
 6; 3786.0; 30-JUN-2009 21:50:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38345
 7; 3887.5; 30-JUN-2009 21:52:26; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;38345
 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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4; 603.1; 01-JUL-2009 00:18:53; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38347
5; 1481.0; 01-JUL-2009 00:33:31; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;38347
6; 2231.9; 01-JUL-2009 00:46:02; Bright; 72.0; 168; 17Zet Aql ; 2.99; 11000;occ; 144; 0;38347
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