

GOMOS Daily Report 03-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 04:37:06
Data source version	GOMOS/5.00
Start time of products	03JUN2009 00:07:24
Stop time of products	03JUN2009 06:34:47
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)

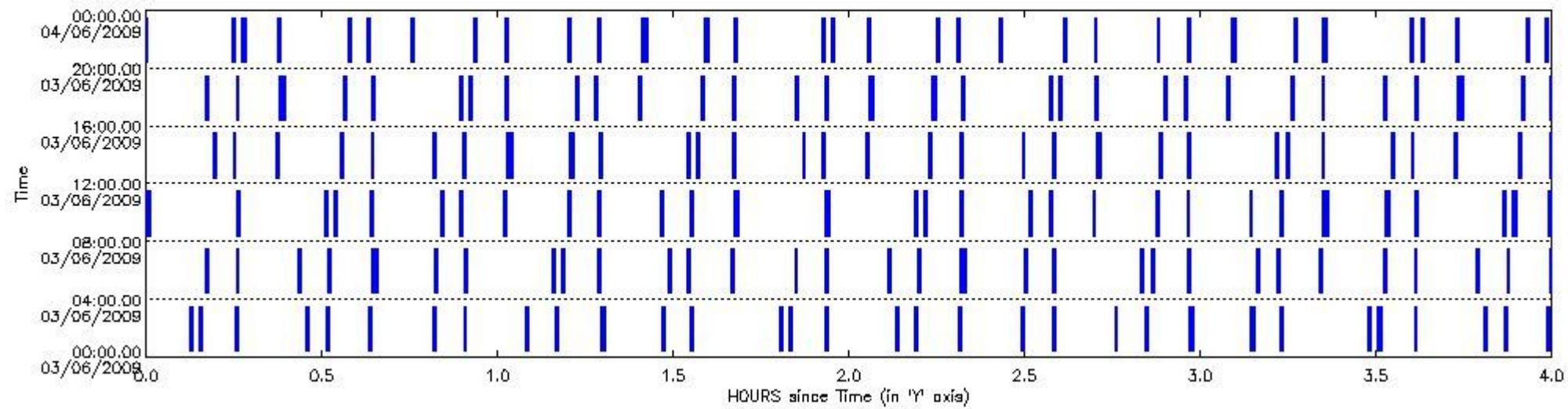
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

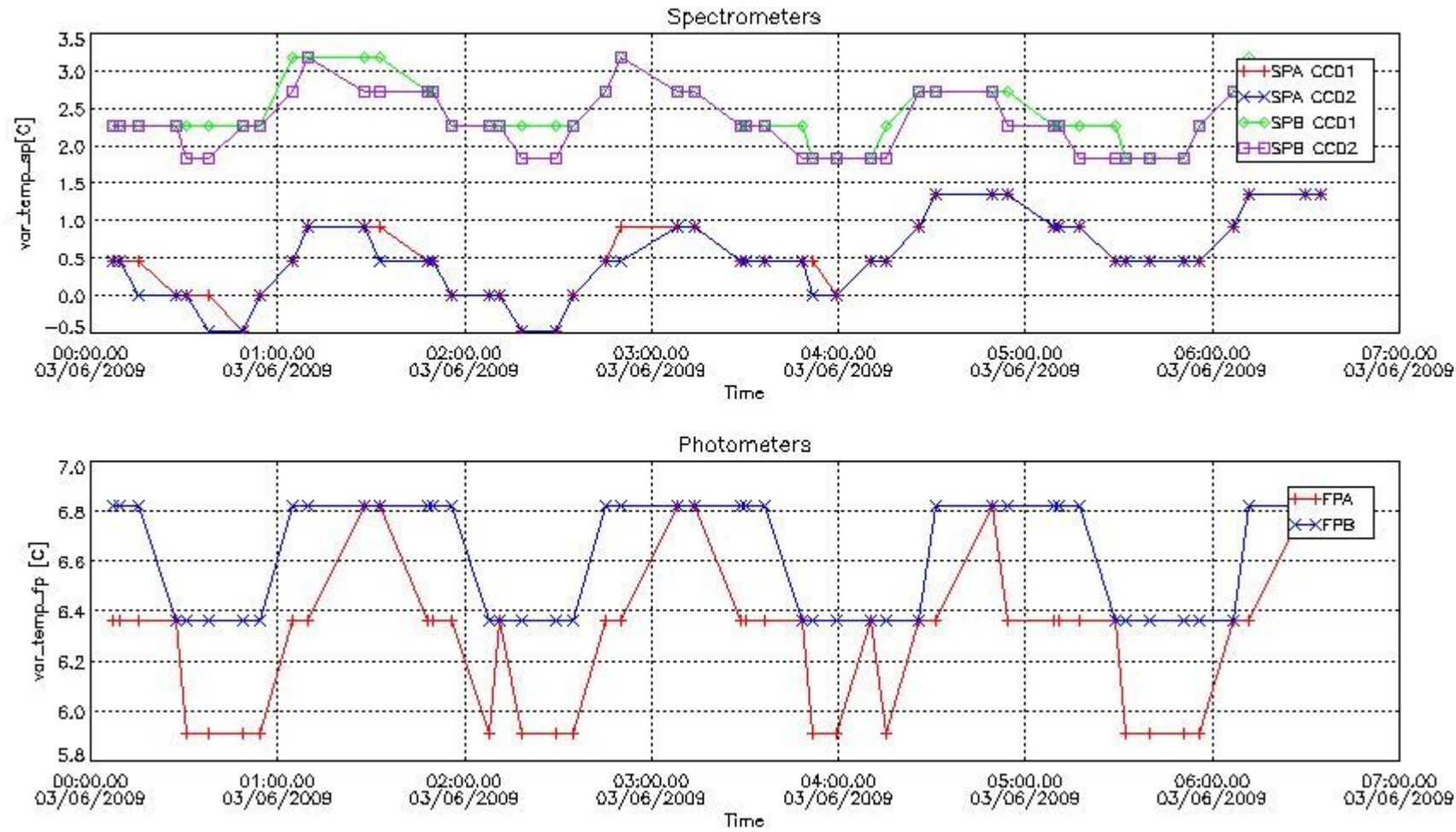
No missing products.

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_1PNPDE20090603_000724_000000342079_00317_37946_2600.N1	03-JUN-2009 00:07:24	Twilight	33.500	38	20Eps Sgr	1.8360	11000.	67	37946	No
2	GOM_TRA_1PNPDE20090603_000904_000000352079_00317_37946_2601.N1	03-JUN-2009 00:09:04	Twilight	35.000	116	19Del Sgr	2.7000	4100.0	70	37946	No
3	GOM_TRA_1PNPDE20090603_001517_000000312079_00317_37946_2602.N1	03-JUN-2009 00:15:17	Bright	30.500	86	35Eta Oph	2.4300	10200.	61	37946	No
4	GOM_TRA_1PNPDE20090603_002716_000000302079_00317_37946_2603.N1	03-JUN-2009 00:27:16	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37946	No
5	GOM_TRA_1PNPDE20090603_003037_000000322079_00317_37946_2604.N1	03-JUN-2009 00:30:37	Bright	32.000	133	40Zet Her	2.8070	6000.0	64	37946	No
6	GOM_TRA_1PNPDE20090603_003802_000000322079_00317_37946_2605.N1	03-JUN-2009 00:38:02	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37946	No
7	GOM_TRA_1PNPDE20090603_004854_000000312079_00317_37946_2606.N1	03-JUN-2009 00:48:54	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37946	No
8	GOM_TRA_1PNPDE20090603_005410_000000252079_00317_37946_2607.N1	03-JUN-2009 00:54:10	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37946	No
9	GOM_TRA_1PNPDE20090603_010445_000000282079_00317_37946_2608.N1	03-JUN-2009 01:04:45	Twilight	27.500	58	21Alp And	2.0730	11000.	55	37946	No
10	GOM_TRA_1PNPDE20090603_010951_000000292079_00317_37946_2609.N1	03-JUN-2009 01:09:51	Dark	29.000	140	88Gam Peg	2.8340	26000.	58	37946	No
11	GOM_TRA_1PNPDE20090603_012755_000000392079_00317_37946_2740.N1	03-JUN-2009 01:27:55	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37946	No
12	GOM_TRA_1PNPDE20090603_013256_000000342079_00318_37947_2741.N1	03-JUN-2009 01:32:56	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37947	No

13	GOM_TRA_1PNPDE20090603_014801_000000342079_00318_37947_2742.N1	03-JUN-2009 01:48:01	Twilight	33.500	38	20Eps Sgr	1.8360	11000.	67	37947	No
14	GOM_TRA_1PNPDE20090603_014941_000000352079_00318_37947_2743.N1	03-JUN-2009 01:49:41	Twilight	35.000	116	19Del Sgr	2.7000	4100.0	70	37947	No
15	GOM_TRA_1PNPDE20090603_015552_000000312079_00318_37947_2744.N1	03-JUN-2009 01:55:52	Twilight	30.500	86	35Eta Oph	2.4300	10200.	61	37947	No
16	GOM_TRA_1PNPDE20090603_020751_000000312079_00318_37947_2745.N1	03-JUN-2009 02:07:51	Bright	30.500	127	27Bet Her	2.7810	4700.0	61	37947	No
17	GOM_TRA_1PNPDE20090603_021113_000000312079_00318_37947_2746.N1	03-JUN-2009 02:11:13	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37947	No
18	GOM_TRA_1PNPDE20090603_021837_000000322079_00318_37947_2747.N1	03-JUN-2009 02:18:37	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37947	No
19	GOM_TRA_1PNPDE20090603_022929_000000312079_00318_37947_2748.N1	03-JUN-2009 02:29:29	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37947	No
20	GOM_TRA_1PNPDE20090603_023446_000000252079_00318_37947_2864.N1	03-JUN-2009 02:34:46	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37947	No
21	GOM_TRA_1PNPDE20090603_024521_000000282079_00318_37947_2865.N1	03-JUN-2009 02:45:21	Twilight	27.500	58	21Alp And	2.0730	11000.	55	37947	No
22	GOM_TRA_1PNPDE20090603_025027_000000302079_00318_37947_2866.N1	03-JUN-2009 02:50:27	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37947	No
23	GOM_TRA_1PNPDE20090603_030832_000000402079_00318_37947_2867.N1	03-JUN-2009 03:08:32	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37947	No
24	GOM_TRA_1PNPDE20090603_031333_000000342079_00319_37948_2868.N1	03-JUN-2009 03:13:33	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37948	No
25	GOM_TRA_1PNPDE20090603_032837_000000342079_00319_37948_2869.N1	03-JUN-2009 03:28:37	Twilight	33.500	38	20Eps Sgr	1.8360	11000.	67	37948	No
26	GOM_TRA_1PNPDE20090603_033017_000000352079_00319_37948_2870.N1	03-JUN-2009 03:30:17	Twilight	34.500	116	19Del Sgr	2.7000	4100.0	69	37948	No
27	GOM_TRA_1PNPDE20090603_033629_000000302079_00319_37948_2871.N1	03-JUN-2009 03:36:29	Twilight	30.000	86	35Eta Oph	2.4300	10200.	60	37948	No
28	GOM_TRA_1PNPDE20090603_034827_000000302079_00319_37948_2872.N1	03-JUN-2009 03:48:27	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37948	No
29	GOM_TRA_1PNPDE20090603_035148_000000322079_00319_37948_2873.N1	03-JUN-2009 03:51:48	Bright	31.500	133	40Zet Her	2.8070	6000.0	63	37948	No
30	GOM_TRA_1PNPDE20090603_035912_000000322079_00319_37948_2874.N1	03-JUN-2009 03:59:12	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37948	No
31	GOM_TRA_1PNPDE20090603_041005_000000312079_00319_37948_3044.N1	03-JUN-2009 04:10:05	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37948	No
32	GOM_TRA_1PNPDE20090603_041522_000000252079_00319_37948_3045.N1	03-JUN-2009 04:15:22	Twilight	24.500	74	11Bet Cas	2.2680	6600.0	49	37948	No
33	GOM_TRA_1PNPDE20090603_042557_000000282079_00319_37948_3046.N1	03-JUN-2009 04:25:57	Twilight	27.500	58	21Alp And	2.0730	11000.	55	37948	No
34	GOM_TRA_1PNPDE20090603_043104_000000302079_00319_37948_3047.N1	03-JUN-2009 04:31:04	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37948	No
35	GOM_TRA_1PNPDE20090603_044909_000000392079_00319_37948_3048.N1	03-JUN-2009 04:49:09	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37948	No
36	GOM_TRA_1PNPDE20090603_045410_000000342079_00320_37949_3049.N1	03-JUN-2009 04:54:10	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37949	No
37	GOM_TRA_1PNPDE20090603_050914_000000342079_00320_37949_3050.N1	03-JUN-2009 05:09:14	Twilight	33.500	38	20Eps Sgr	1.8360	11000.	67	37949	No
38	GOM_TRA_1PNPDE20090603_051054_000000352079_00320_37949_3051.N1	03-JUN-2009 05:10:54	Twilight	34.500	116	19Del Sgr	2.7000	4100.0	69	37949	No
39	GOM_TRA_1PNPDE20090603_051705_000000312079_00320_37949_3052.N1	03-JUN-2009 05:17:05	Bright	30.500	86	35Eta Oph	2.4300	10200.	61	37949	No
40	GOM_TRA_1PNPDE20090603_052902_000000312079_00320_37949_3053.N1	03-JUN-2009 05:29:02	Bright	30.500	127	27Bet Her	2.7810	4700.0	61	37949	No
41	GOM_TRA_1PNPDE20090603_053224_000000322079_00320_37949_3054.N1	03-JUN-2009 05:32:24	Bright	31.500	133	40Zet Her	2.8070	6000.0	63	37949	No
42	GOM_TRA_1PNPDE20090603_053948_000000322079_00320_37949_3055.N1	03-JUN-2009 05:39:48	Bright	32.000	130	23Bet Dra	2.7990	5800.0	64	37949	No
43	GOM_TRA_1PNPDE20090603_055040_000000302079_00320_37949_3056.N1	03-JUN-2009 05:50:40	Twilight	30.000	89	5Alp Cep	2.4510	8000.0	60	37949	No
44	GOM_TRA_1PNPDE20090603_055558_000000252079_00320_37949_3218.N1	03-JUN-2009 05:55:58	Twilight	24.500	74	11Bet Cas	2.2680	6600.0	49	37949	No
45	GOM_TRA_1PNPDE20090603_060633_000000282079_00320_37949_3219.N1	03-JUN-2009 06:06:33	Twilight	28.000	58	21Alp And	2.0730	11000.	56	37949	No
46	GOM_TRA_1PNPDE20090603_061140_000000302079_00320_37949_3220.N1	03-JUN-2009 06:11:40	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37949	No
47	GOM_TRA_1PNPDE20090603_062947_000000402079_00320_37949_3221.N1	03-JUN-2009 06:29:47	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37949	No
48	GOM_TRA_1PNPDE20090603_063447_000000342079_00321_37950_3222.N1	03-JUN-2009 06:34:47	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37950	No

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



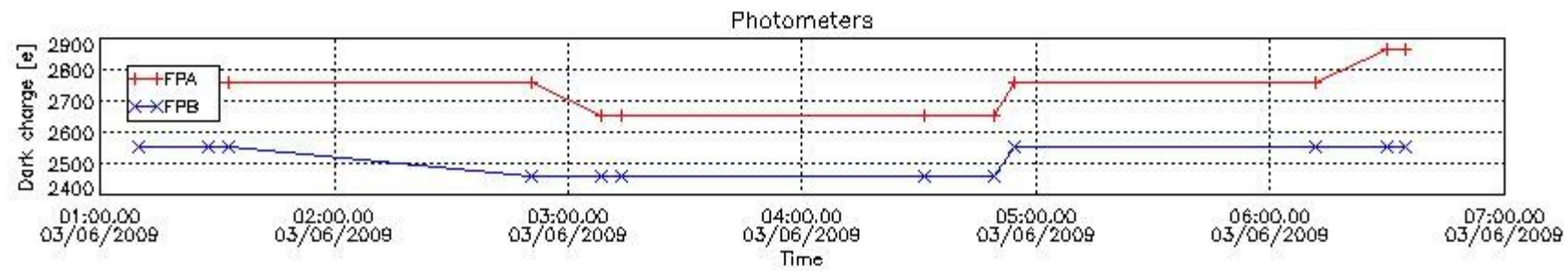
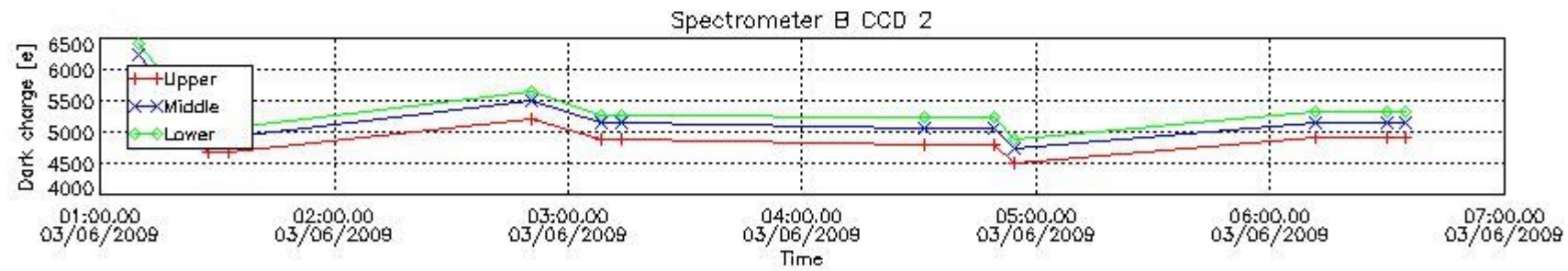
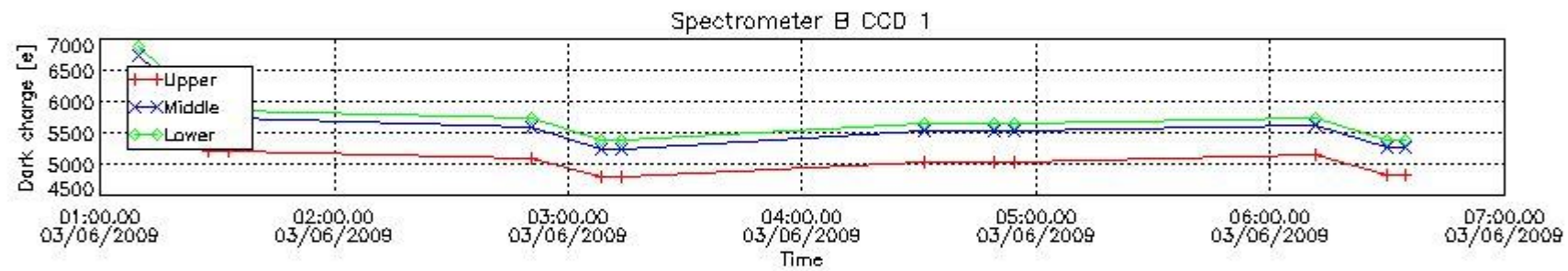
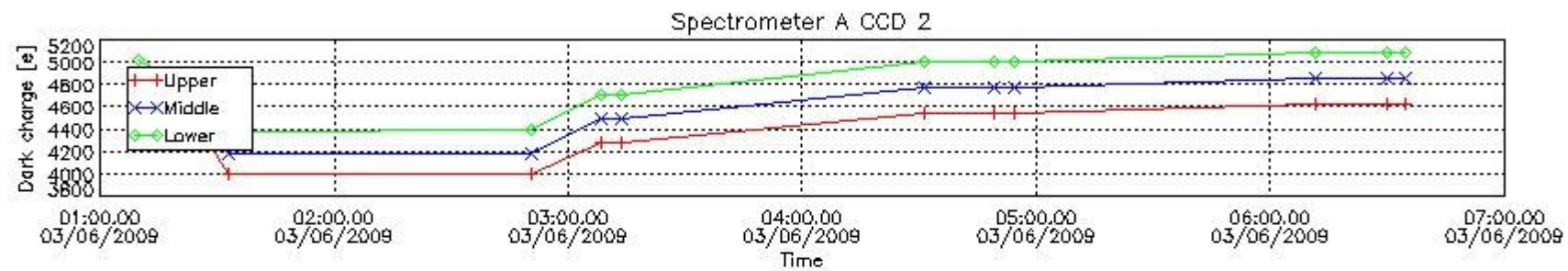
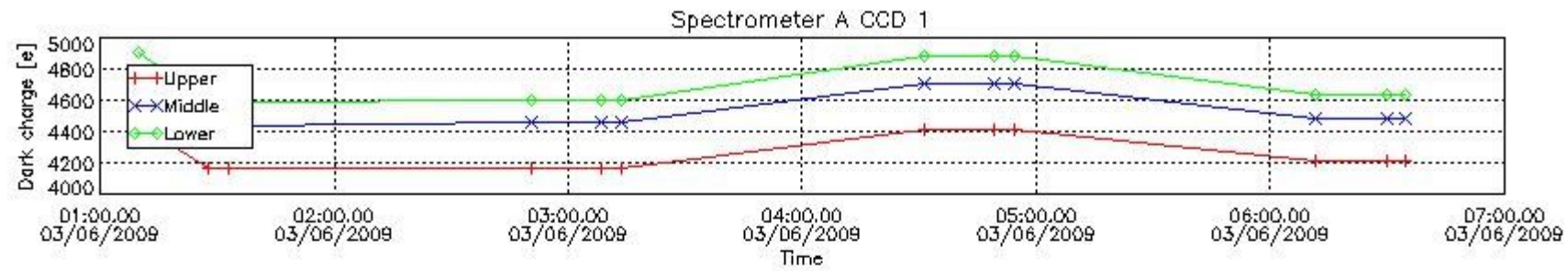
4. Overview of dark signal processing per product

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



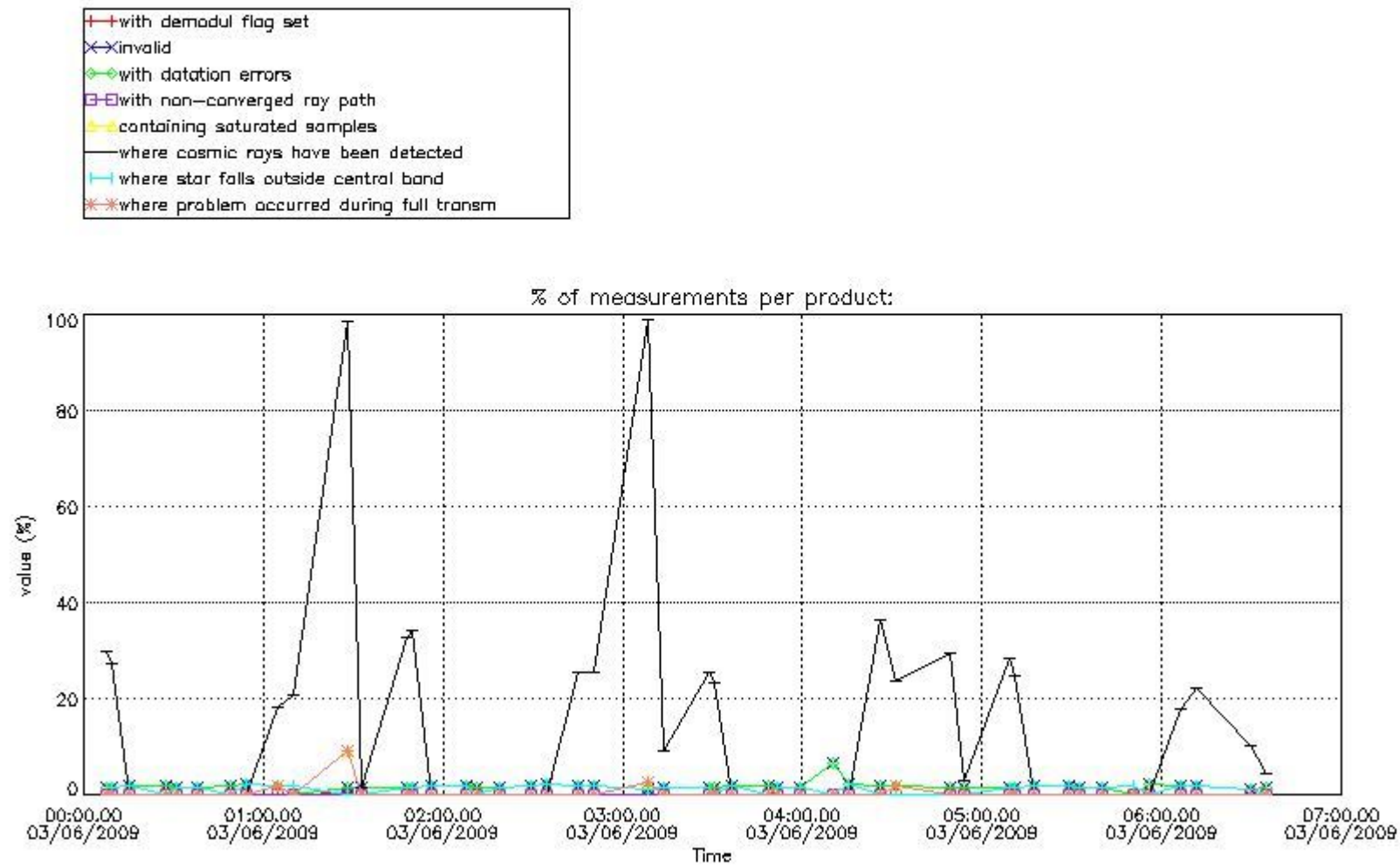
5. Demodulation flag and quality information monitoring

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.

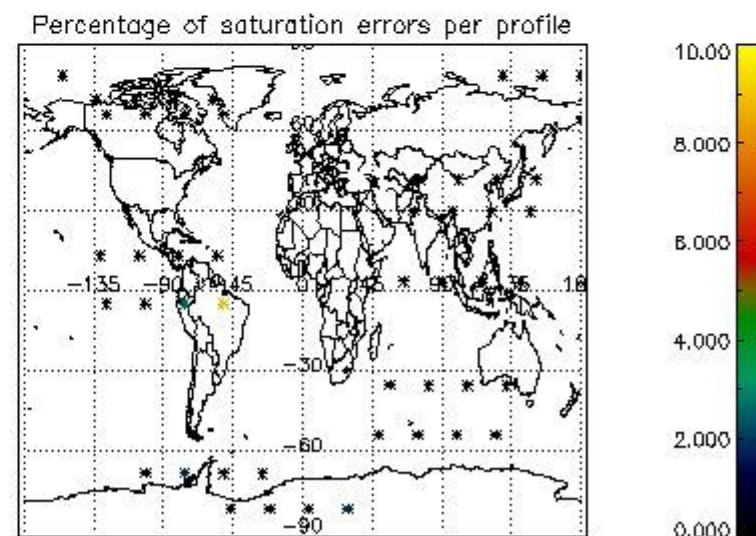
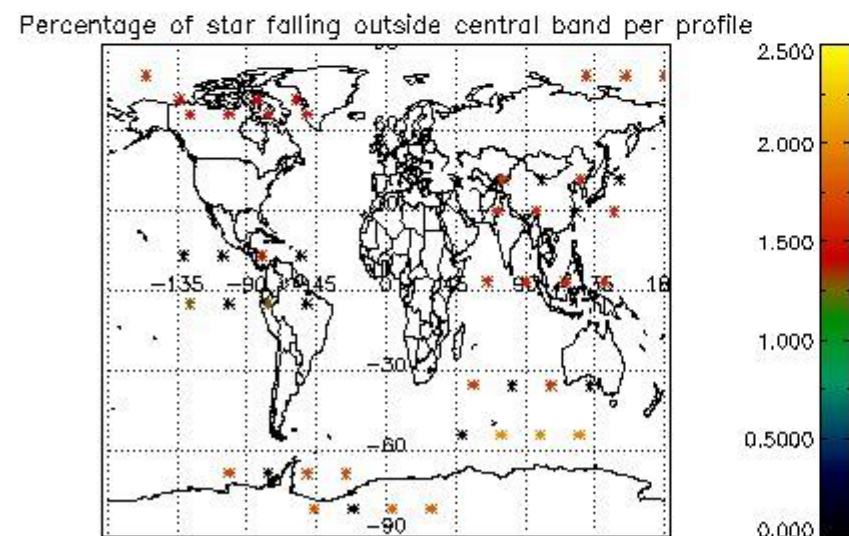
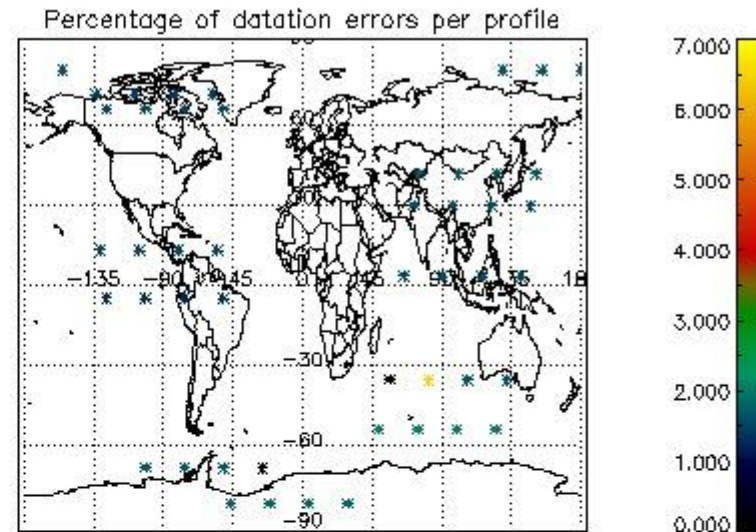
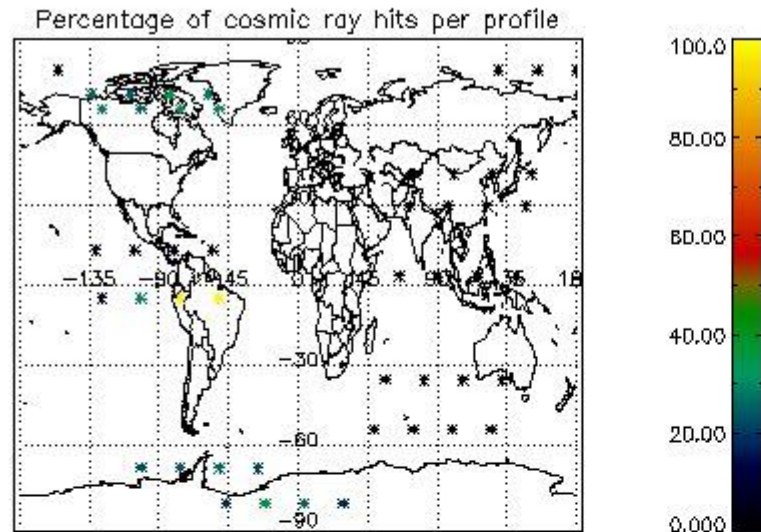
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.5000 %
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)



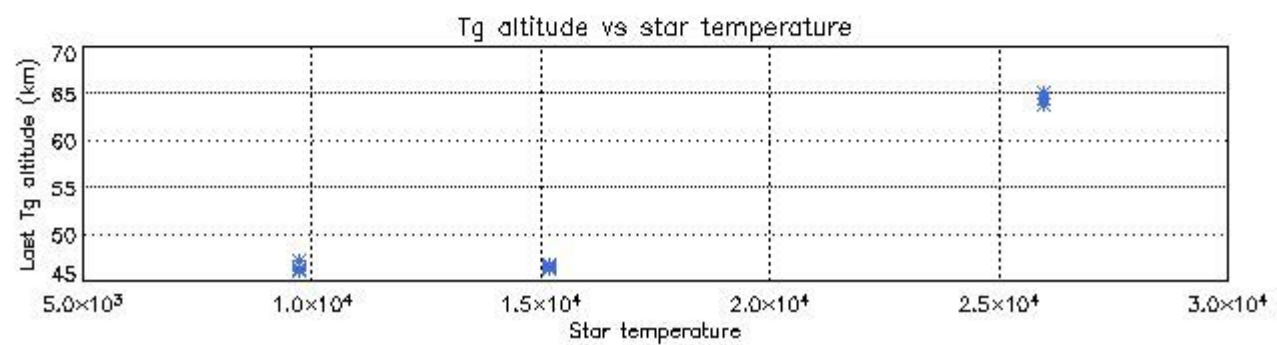
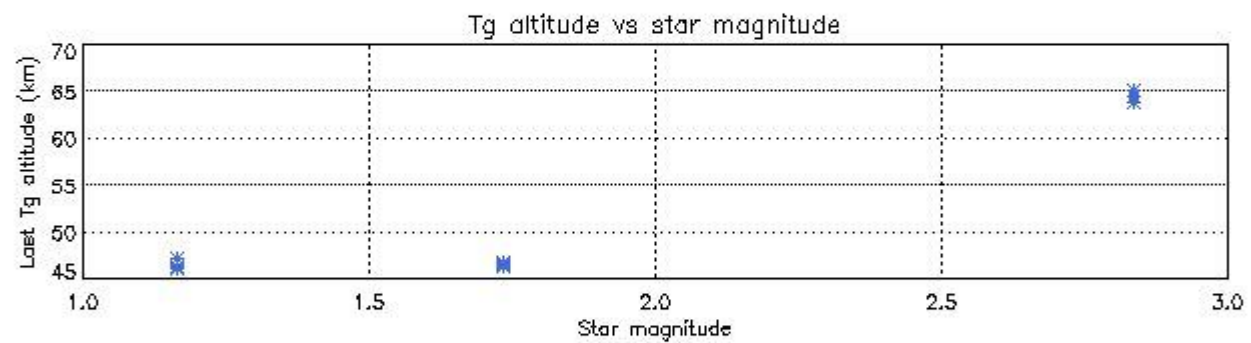
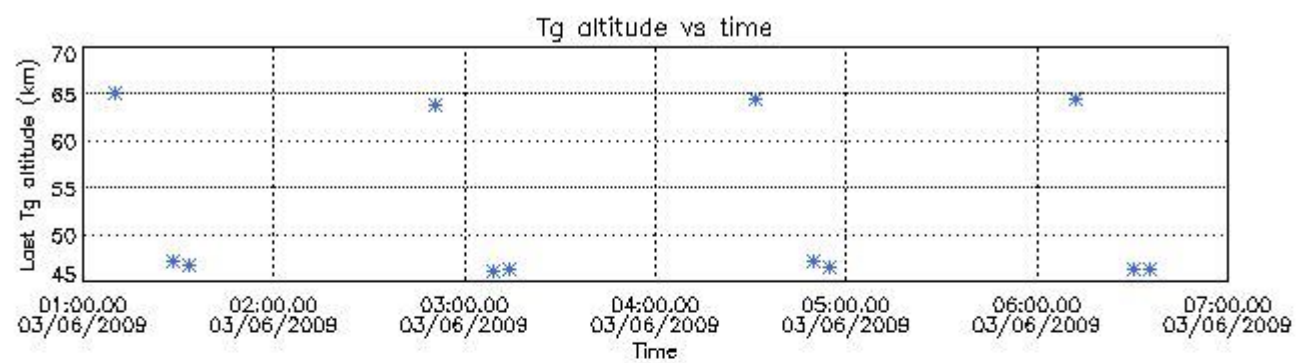
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	52.506	47.723	NaN
St. deviation:	8.8087	1.3872	NaN
Maximum:	65.074	50.571	NaN
Minimum:	46.097	45.764	NaN
Number of data:	12.000	14.000	NaN

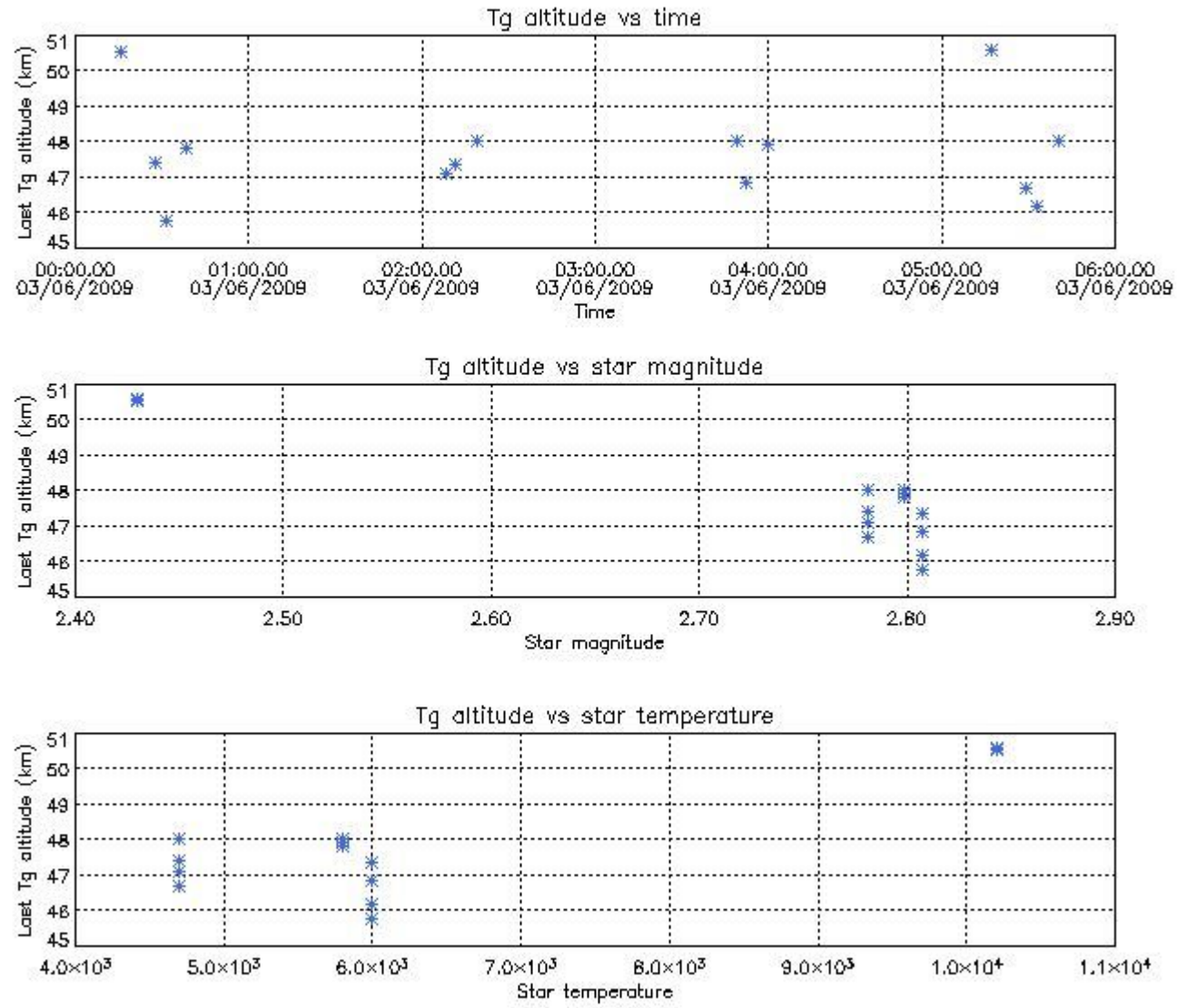
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

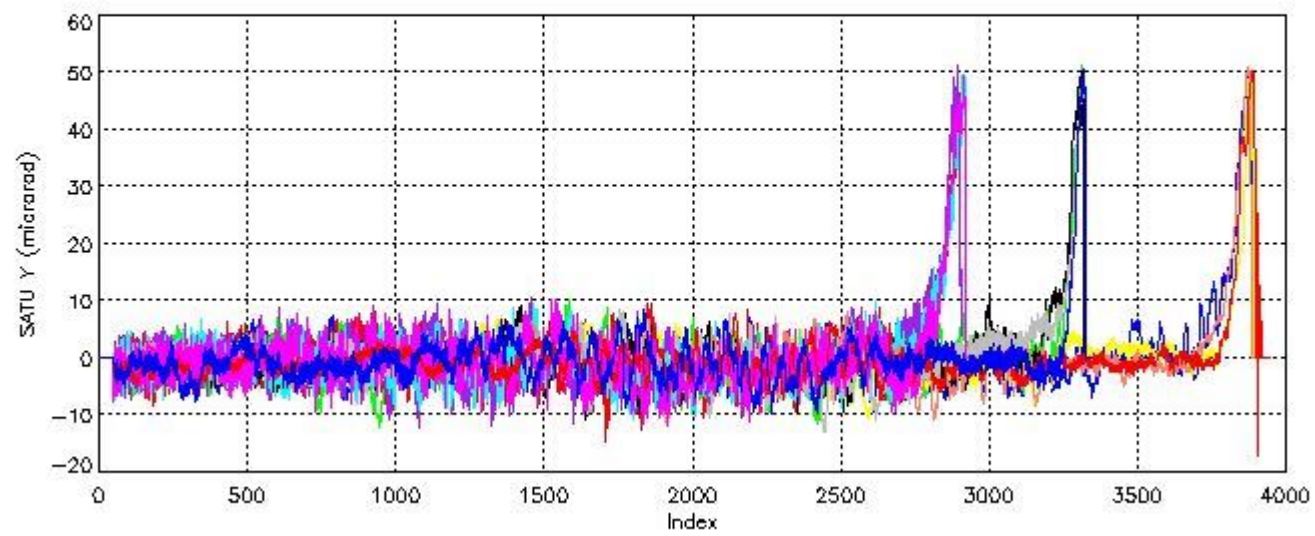
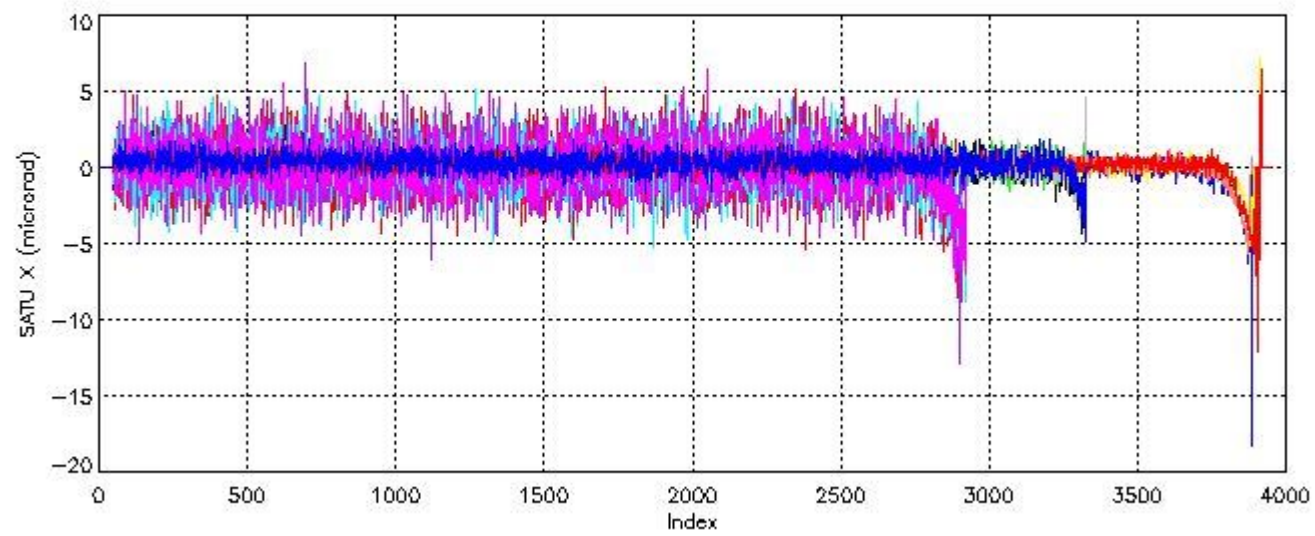


7. Star Acquisition and Tracking Unit (SATU)

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:	0.32668	-0.94307	0.34302	-1.1982
St. deviation:	0.80847	2.4242	0.88287	2.0400
Maximum:	6.8000	9.3000	3.9000	9.2000
Minimum:	-6.1000	-12.400	-2.9000	-8.3000

Number of data:	14300.	14300.	13800.	13800.
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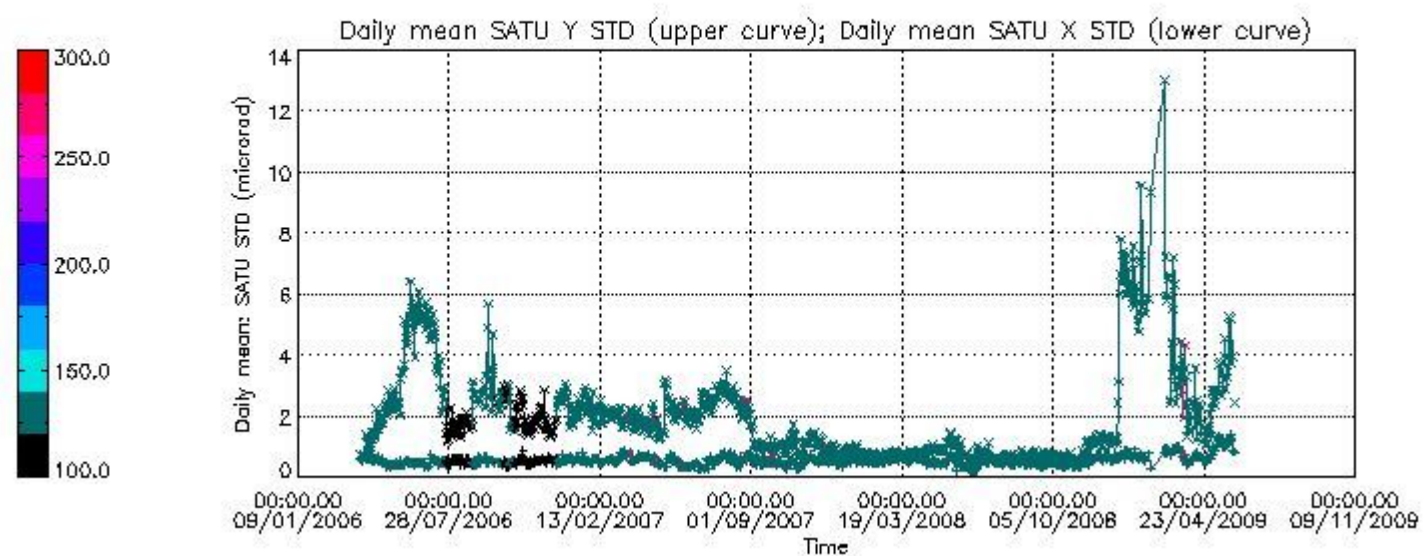
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

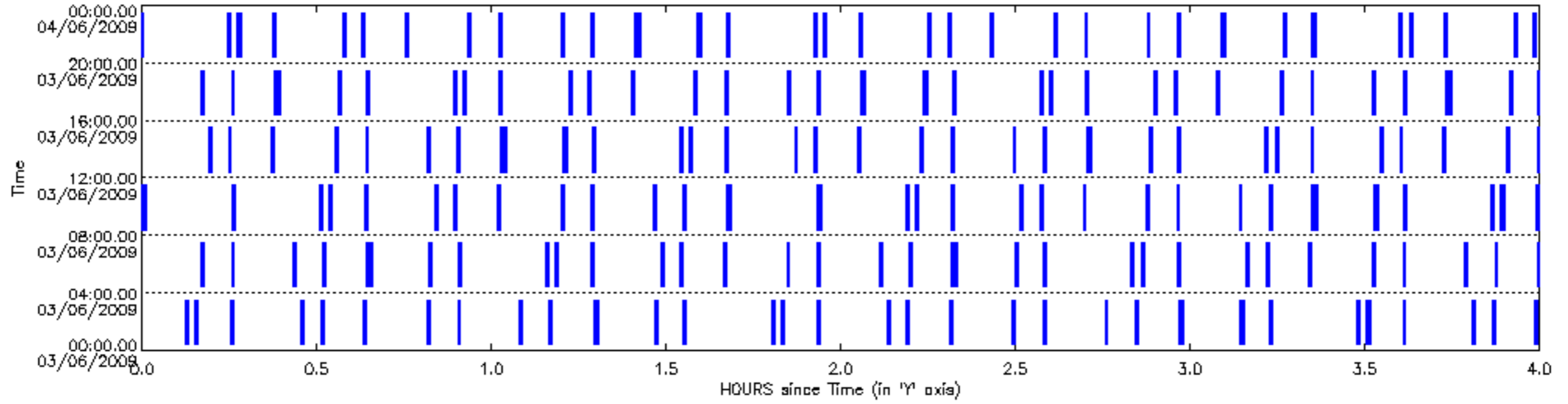
Lower curve: STD of SATU X axis

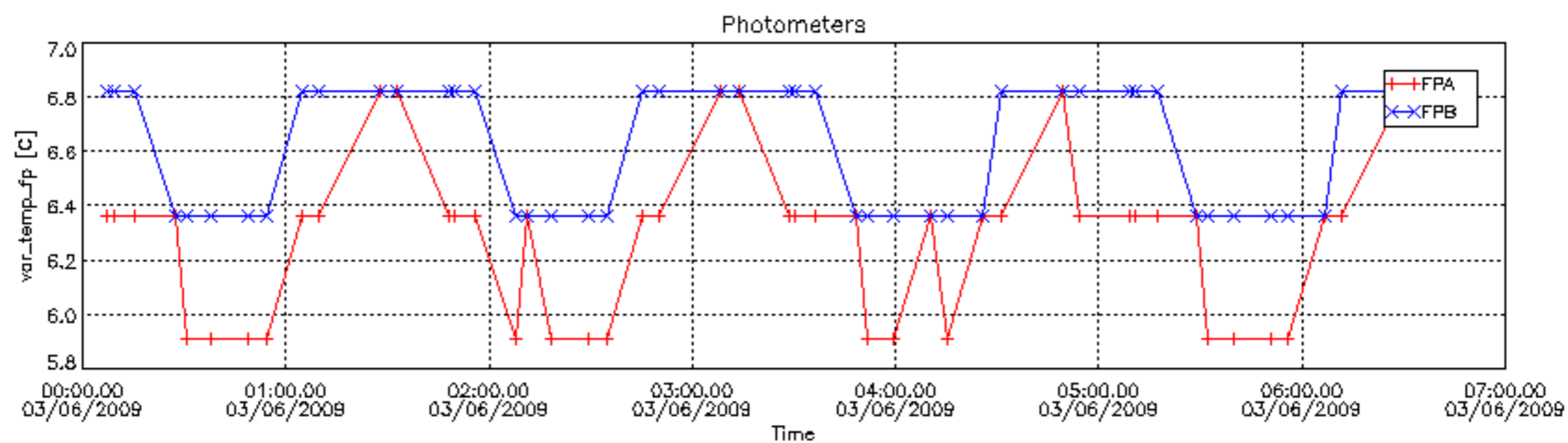
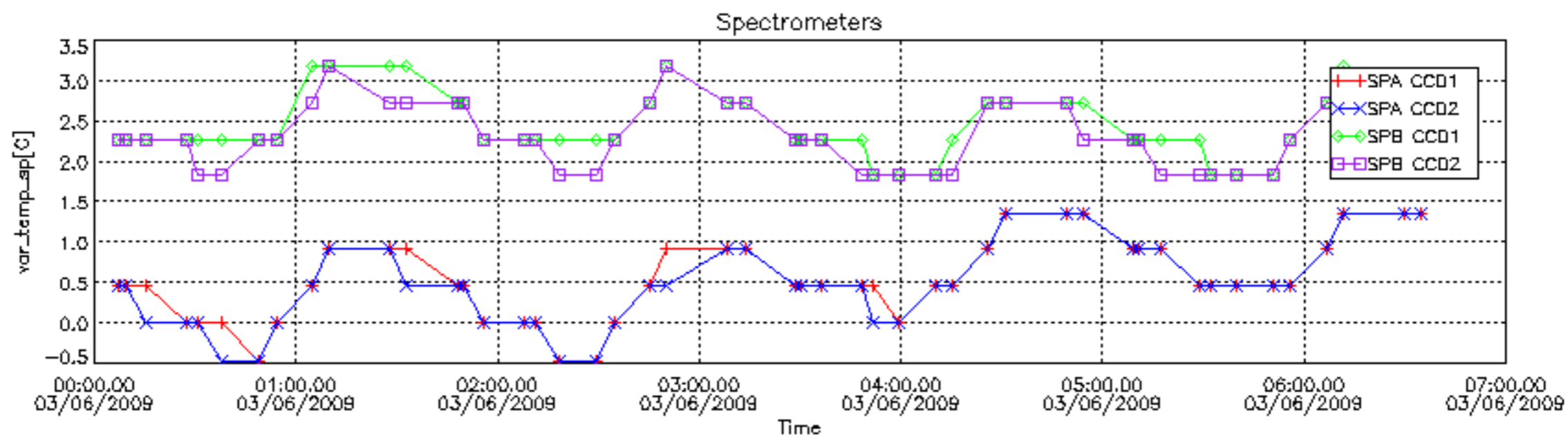


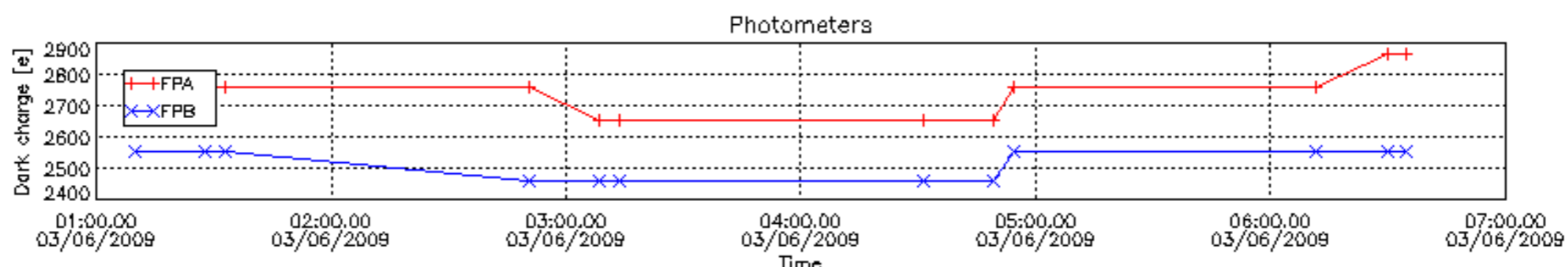
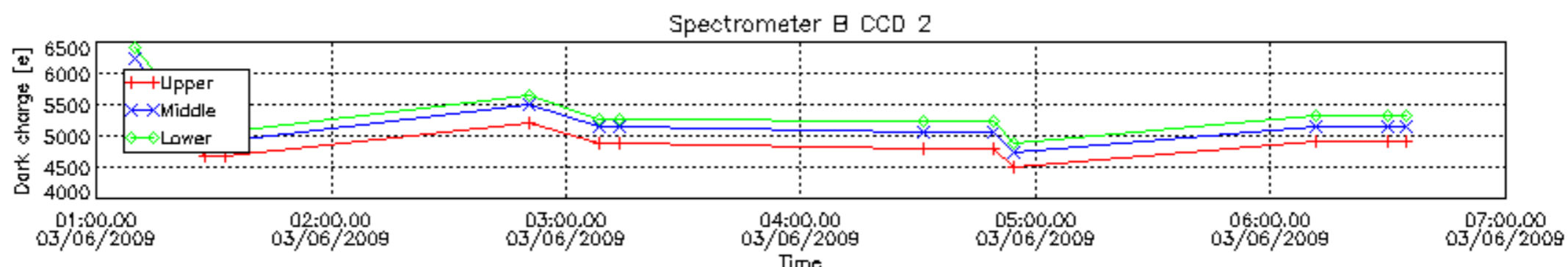
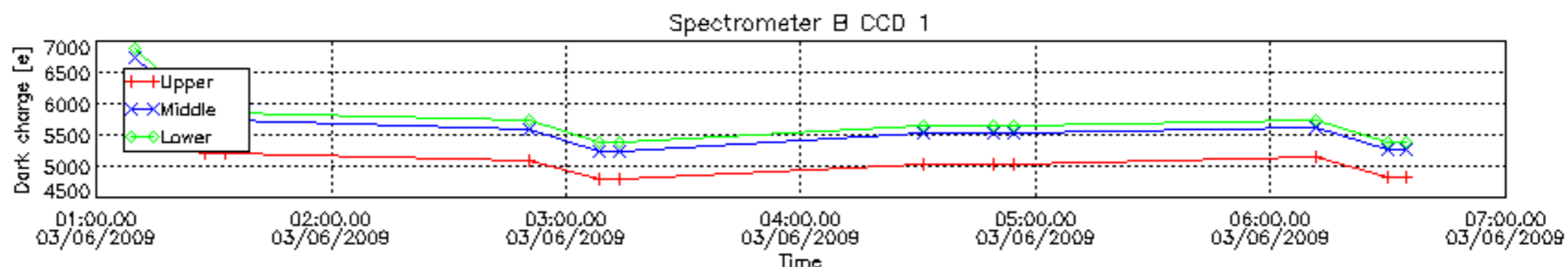
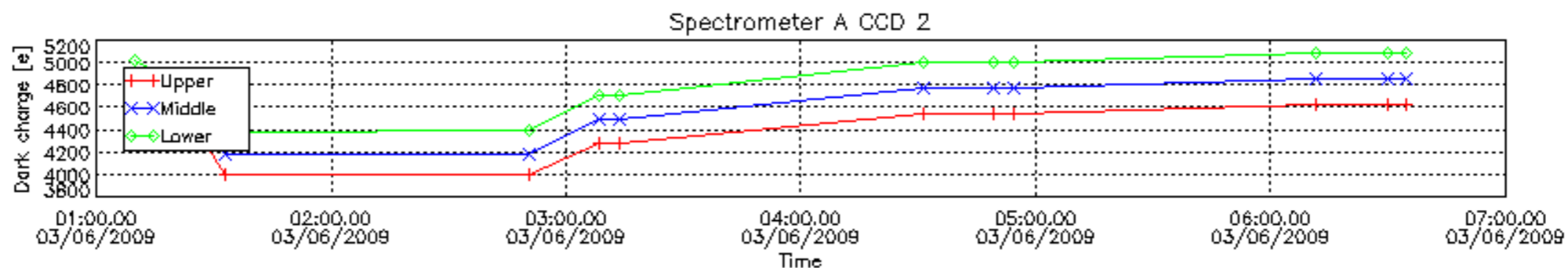
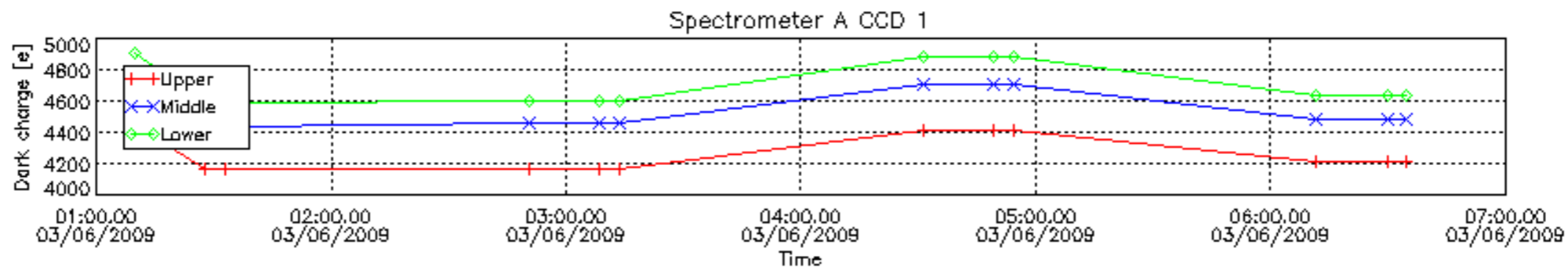
8. Auxiliary Data Files used for the production reported in section 2.4

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

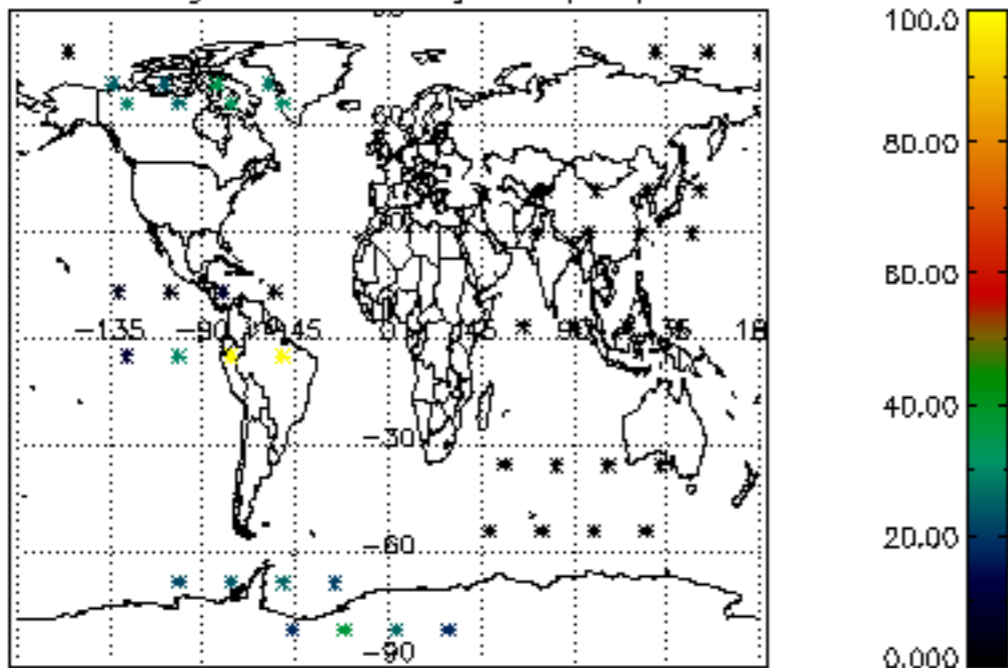
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-JUN-2009 00:07:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	03-JUN-2009 00:07:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-JUN-2009 00:07:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JUN-2009 00:07:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-JUN-2009 00:07:24
ECMWF_FILE	AUX_ECF_AXNECM20090602_064113_20090602_210000_20090603_090000	1	03-JUN-2009 00:07:24
ECMWF_FILE	AUX_ECF_AXNECM20090602_182112_20090603_030000_20090603_150000	31	03-JUN-2009 04:10:05
OPTIONAL_ECMWF_FILE	MISSING	1	03-JUN-2009 00:07:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090602_215059_000060572079_00315_37944_8072.N1	1	03-JUN-2009 00:07:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090602_233156_000057382079_00316_37945_8073.N1	11	03-JUN-2009 01:27:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090603_011253_000044632079_00317_37946_8074.N1	20	03-JUN-2009 02:34:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090603_023235_000054192079_00318_37947_8075.N1	31	03-JUN-2009 04:10:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090603_040813_000057382079_00319_37948_8076.N1	44	03-JUN-2009 05:55:58



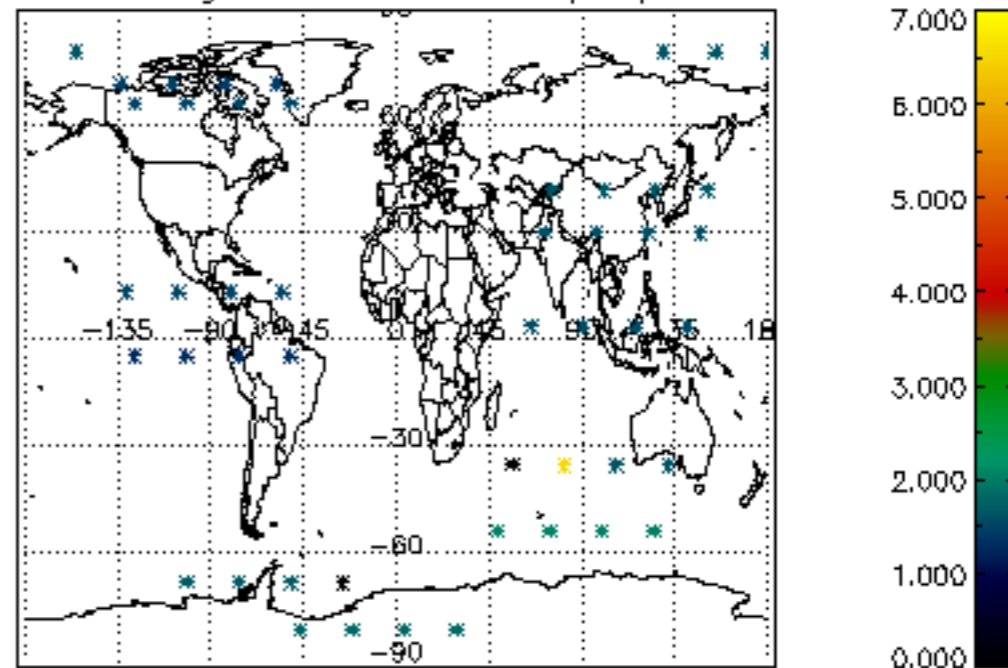




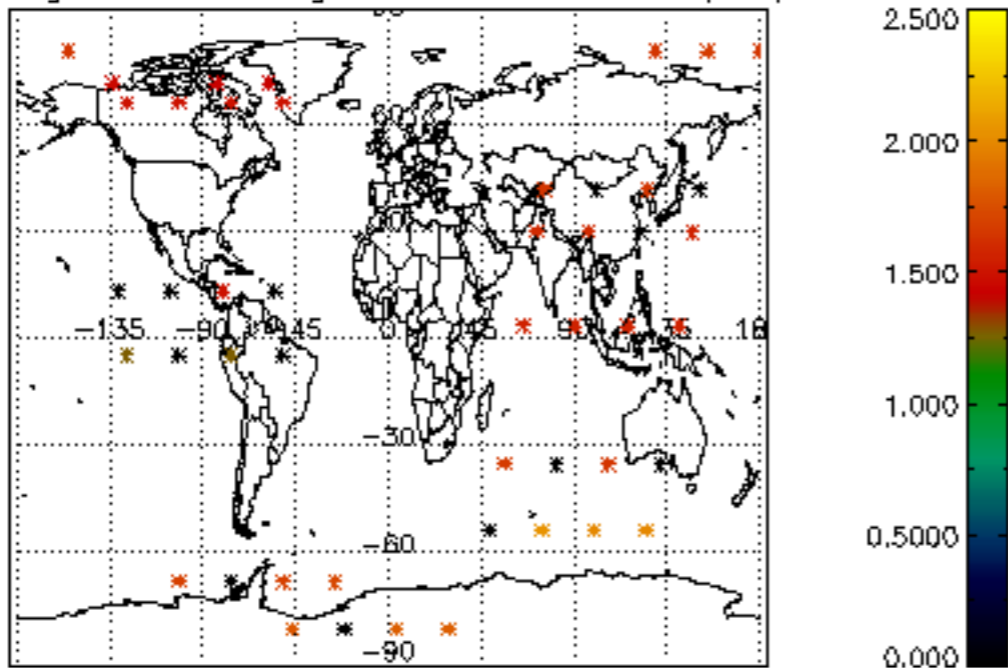
Percentage of cosmic ray hits per profile



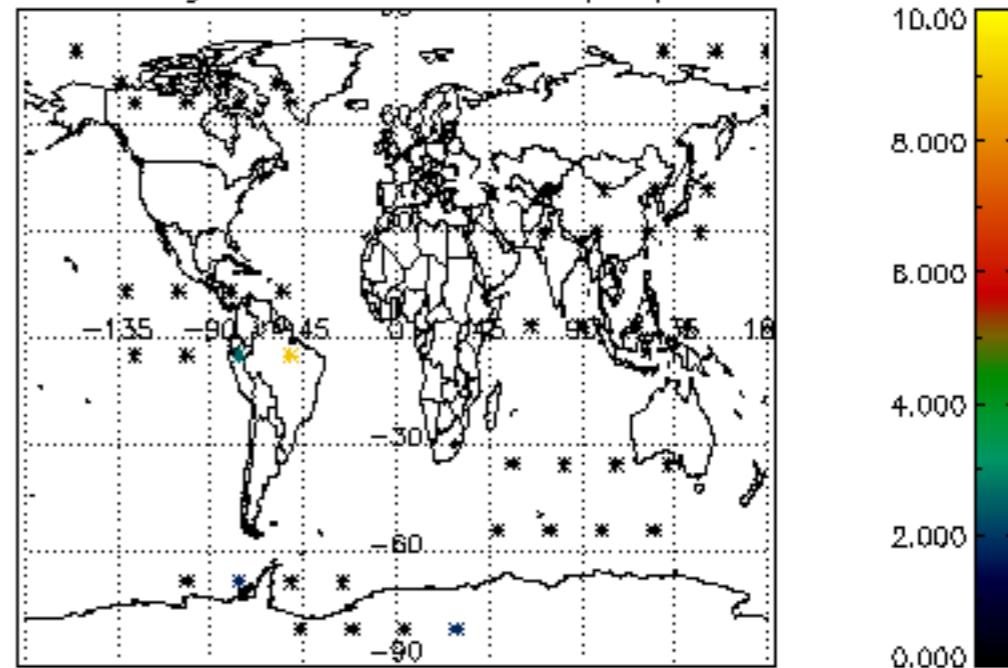
Percentage of datation errors per profile



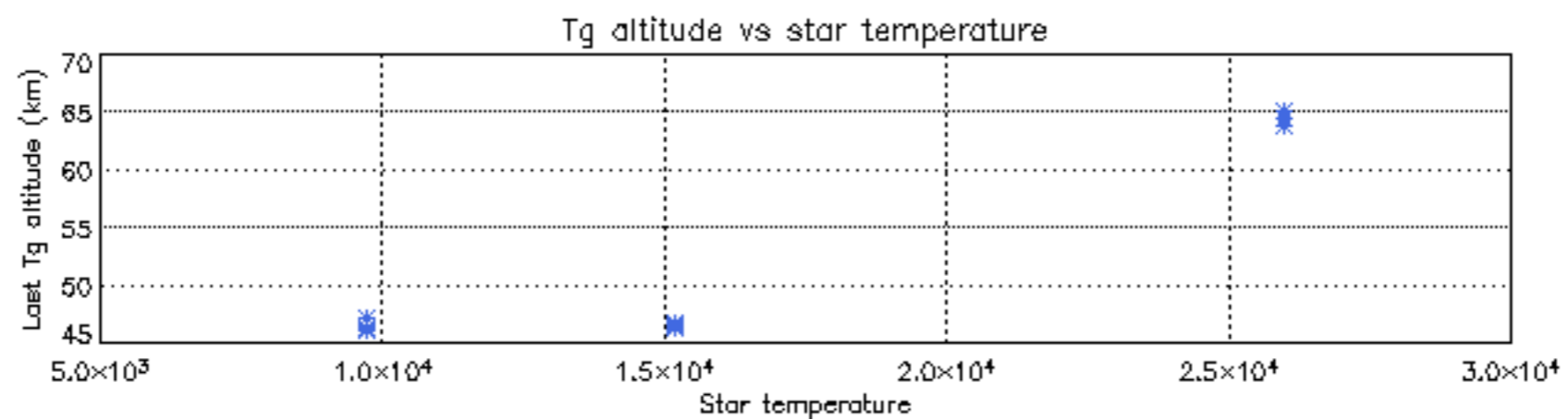
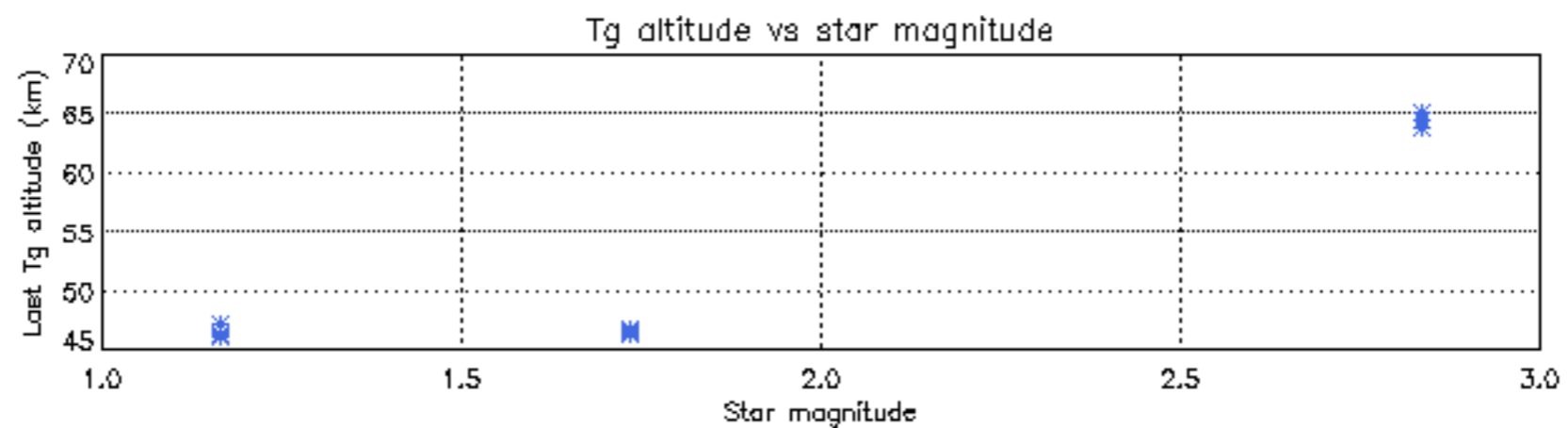
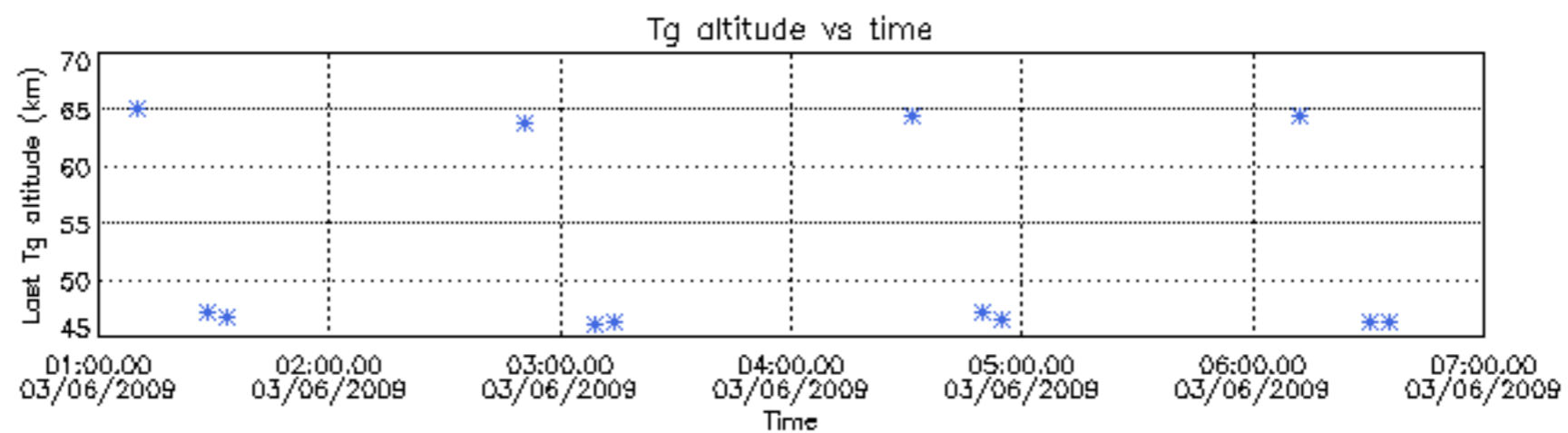
Percentage of star falling outside central band per profile



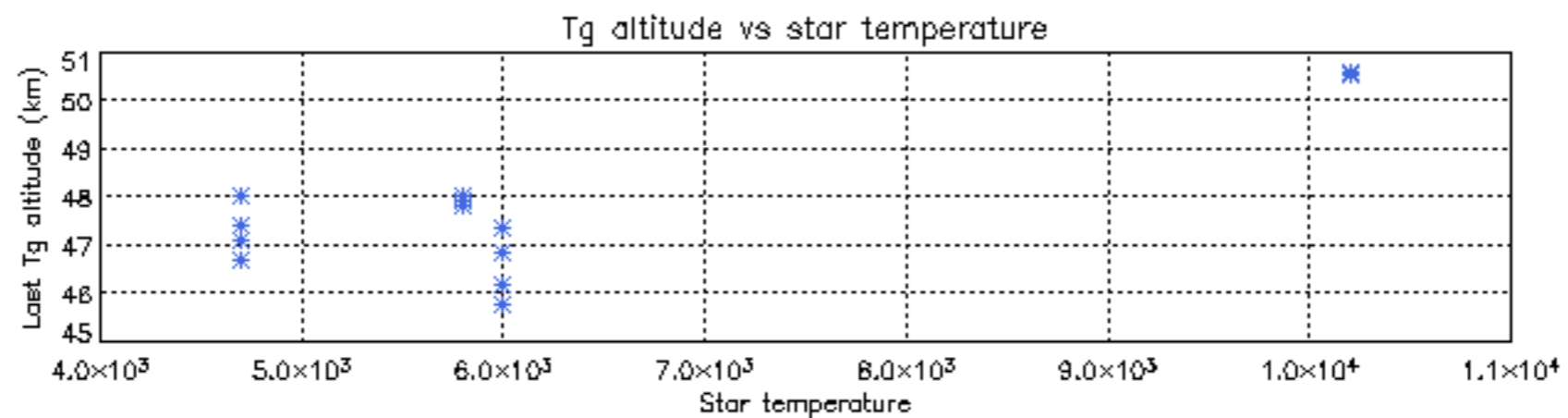
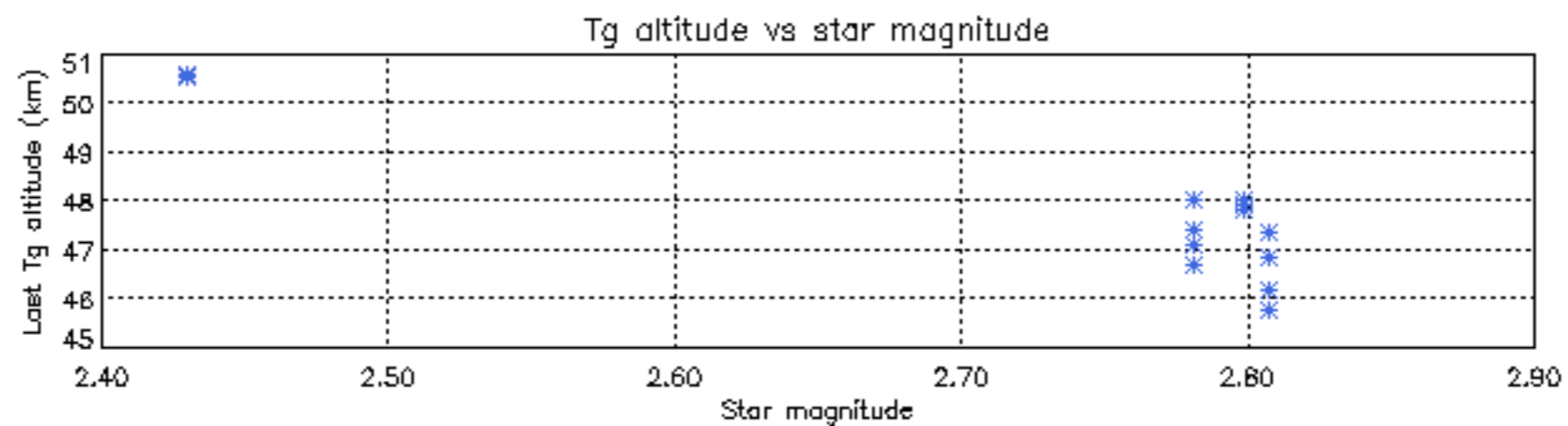
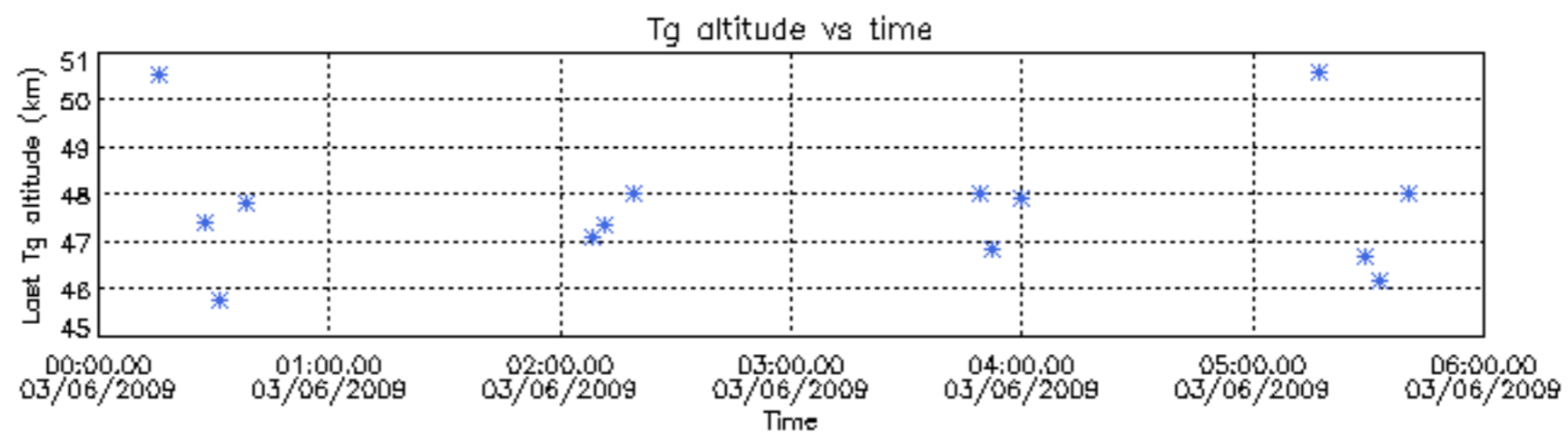
Percentage of saturation errors per profile

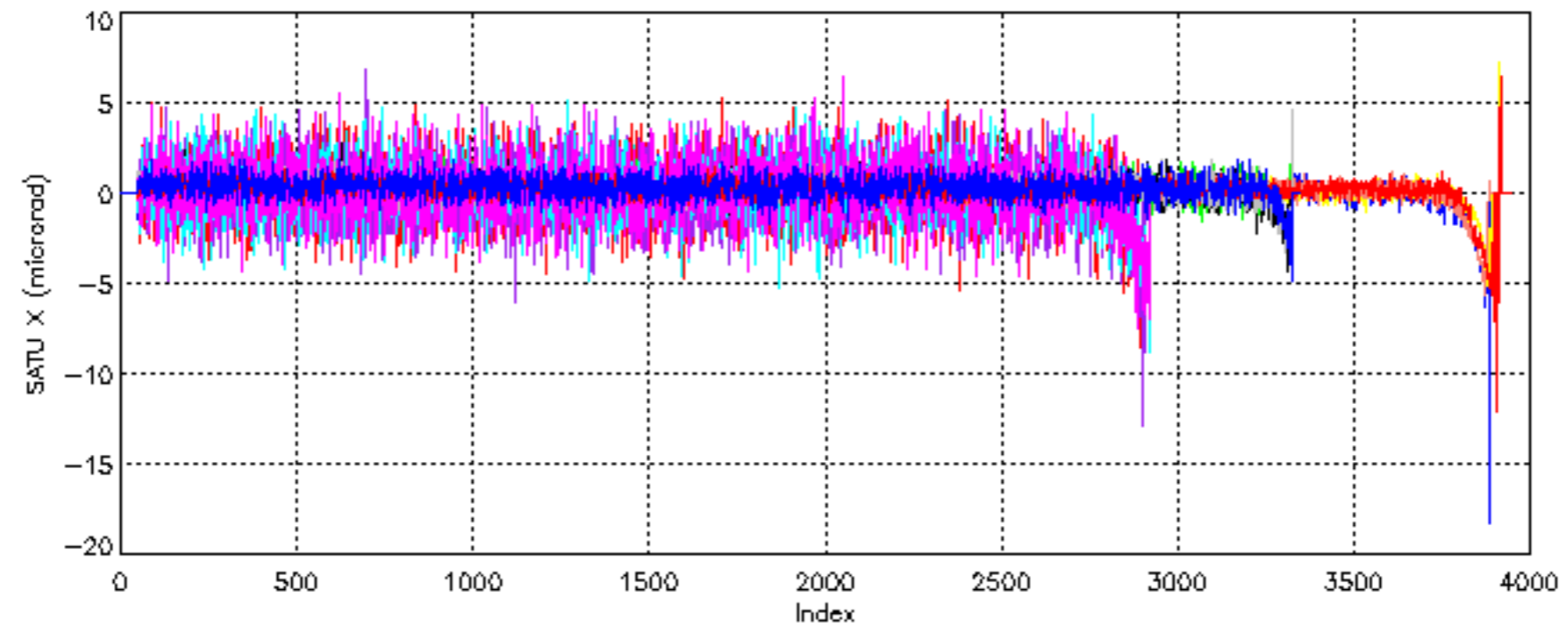


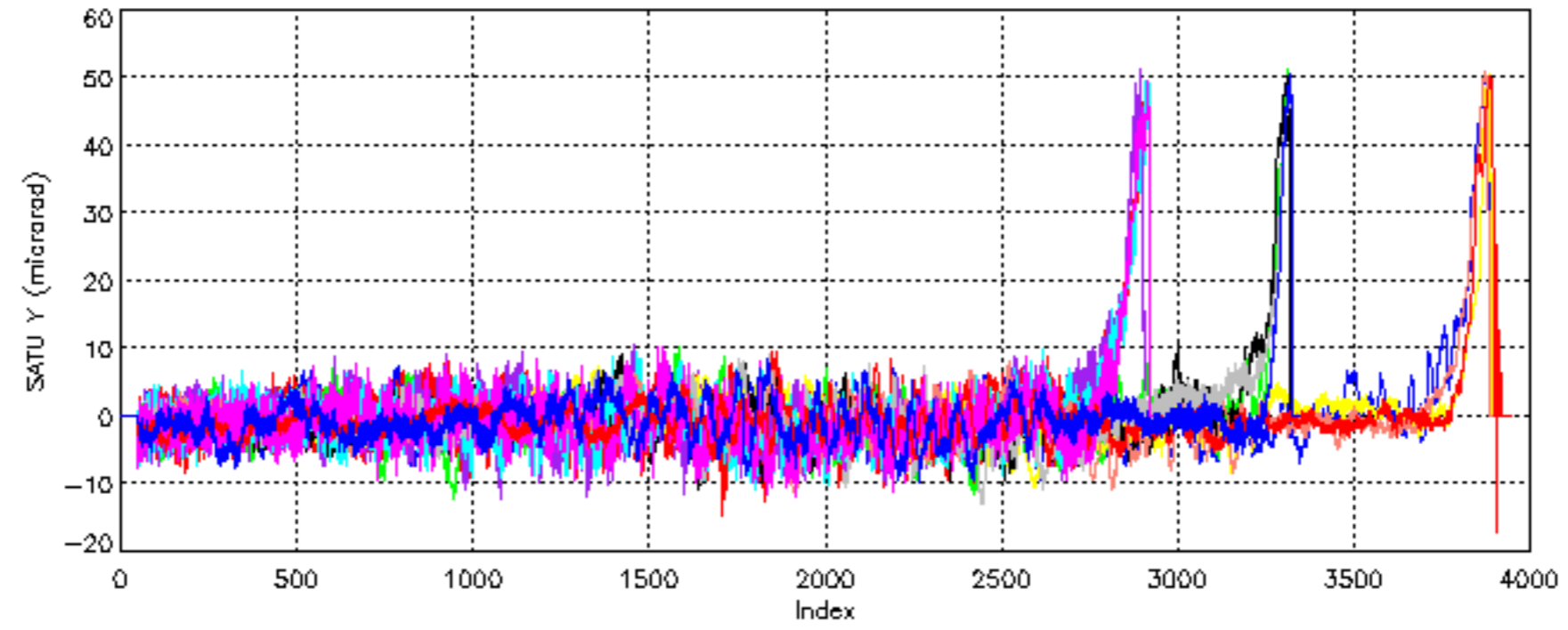
Tangent altitude at which the star is lost

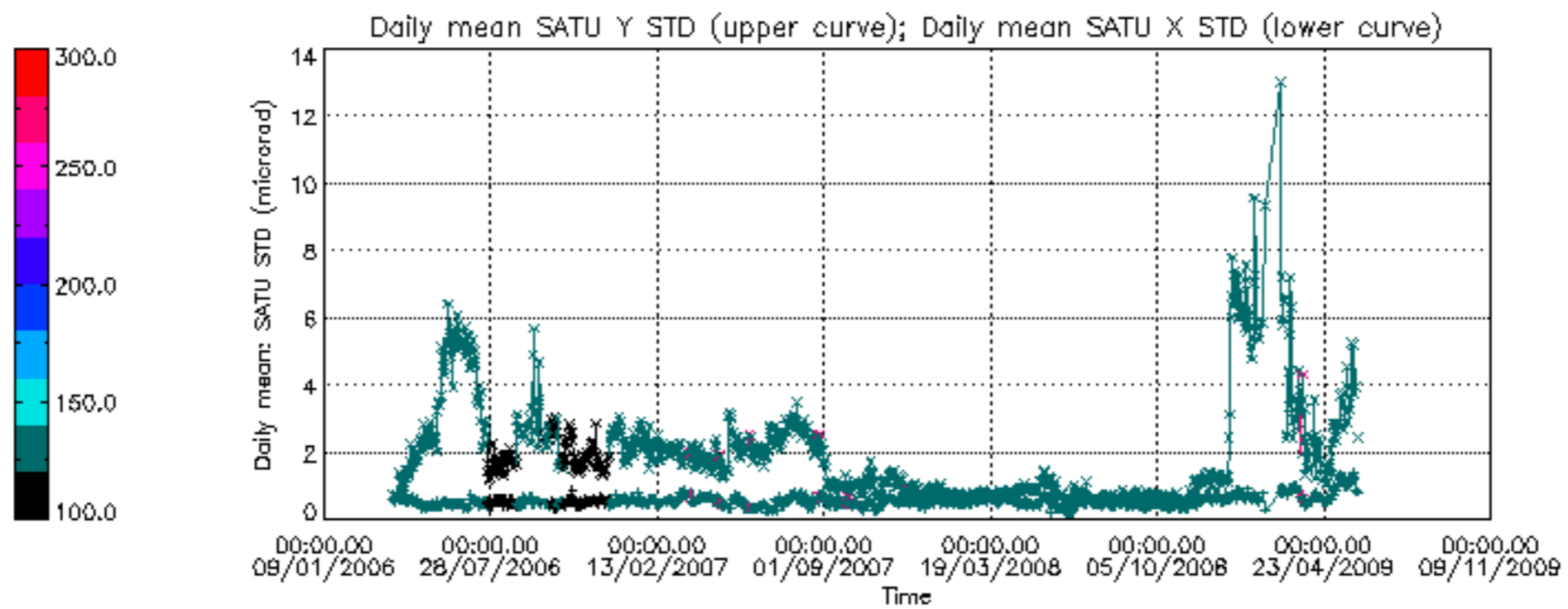


Tangent altitude at which the star is lost










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 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002
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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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3; 2901.7; 10-JUN-2009 08:39:57; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38051
4; 3544.6; 10-JUN-2009 08:50:40; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38051
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
10; 6355.2; 10-JUN-2009 09:37:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
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
4; 3544.4; 10-JUN-2009 10:31:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38052
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6; 4405.6; 10-JUN-2009 10:45:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38052
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8; 5490.3; 10-JUN-2009 11:03:42; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38052
9; 6104.0; 10-JUN-2009 11:13:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 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
5; 4405.6; 10-JUN-2009 12:26:13; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38053
6; 5378.1; 10-JUN-2009 12:42:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38053
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8; 6105.5; 10-JUN-2009 12:54:33; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38053
9; 6236.4; 10-JUN-2009 12:56:44; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38053
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11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
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2; 2186.9; 10-JUN-2009 13:29:50; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38054
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
5; 4406.0; 10-JUN-2009 14:06:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38054
6; 5379.0; 10-JUN-2009 14:23:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
9; 6237.5; 10-JUN-2009 14:37:21; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38054
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3; 2900.1; 10-JUN-2009 15:22:19; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38055
4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
6; 4406.3; 10-JUN-2009 15:47:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38055
7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
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4; 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
5; 2898.9; 10-JUN-2009 18:43:30; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38057
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13; 3899.2; 11-JUN-2009 01:42:34; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38061
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3; 81.7; 11-JUN-2009 02:19:32; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38062
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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
7; 421.5; 11-JUN-2009 04:05:48; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 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
14; 3536.4; 11-JUN-2009 06:38:19; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38064
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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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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
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3; 103.9; 12-JUN-2009 01:48:18; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38076
4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
5; 342.9; 12-JUN-2009 01:52:17; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38076
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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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38077
6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
7; 344.1; 12-JUN-2009 03:32:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38077
8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
9; 1184.6; 12-JUN-2009 03:46:54; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38077
10; 1303.7; 12-JUN-2009 03:48:53; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38077
11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38077
12; 2177.4; 12-JUN-2009 04:03:27; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38077
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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5; 107.1; 12-JUN-2009 05:09:33; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38078
6; 223.1; 12-JUN-2009 05:11:29; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38078
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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2; 1307.7; 12-JUN-2009 20:34:57; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38087
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
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
 6; 4408.0; 12-JUN-2009 09:42:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38080
 7; 5403.6; 12-JUN-2009 09:59:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38080
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 4; 348.3; 12-JUN-2009 10:15:22; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38081
 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; 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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12; 6482.7; 12-JUN-2009 11:57:36; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38081
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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5; 3513.0; 13-JUN-2009 17:18:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 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
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 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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 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
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 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
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 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
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 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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 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
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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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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
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11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141
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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
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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
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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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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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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
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9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
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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
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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
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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
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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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7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
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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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16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
17; 3478.8; 17-JUN-2009 06:48:51; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38150
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5; 2150.0; 17-JUN-2009 21:32:06; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38159
6; 2775.4; 17-JUN-2009 21:42:31; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38159
7; 2883.0; 17-JUN-2009 21:44:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38159

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3; 303.1; 17-JUN-2009 22:41:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38160
4; 426.4; 17-JUN-2009 22:43:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38160
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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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 9; 555.7; 18-JUN-2009 03:47:55; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 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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16; 2880.9; 18-JUN-2009 06:07:16; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38164
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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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 2; -404.1; 20-JUN-2009 02:28:41; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38190
 3; -48.7; 20-JUN-2009 02:34:37; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38190
 4; 333.6; 20-JUN-2009 02:40:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38191
 5; 457.0; 20-JUN-2009 02:43:02; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38191
 6; 592.4; 20-JUN-2009 02:45:18; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38191
 7; 1227.5; 20-JUN-2009 02:55:53; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38191
 8; 1314.6; 20-JUN-2009 02:57:20; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38191
 9; 1447.2; 20-JUN-2009 02:59:33; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38191
 10; 1995.1; 20-JUN-2009 03:08:41; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38191
 11; 2142.2; 20-JUN-2009 03:11:08; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38191
 12; 2749.3; 20-JUN-2009 03:21:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38191
 13; 2868.5; 20-JUN-2009 03:23:14; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38191
 14; 3450.4; 20-JUN-2009 03:32:56; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38191

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 2; -2091.6; 20-JUN-2009 03:41:10; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38191
 3; -1765.0; 20-JUN-2009 03:46:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38191
 4; -1621.2; 20-JUN-2009 03:49:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38191
 5; -1400.6; 20-JUN-2009 03:52:41; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38191
 6; -504.1; 20-JUN-2009 04:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38191
 7; -403.0; 20-JUN-2009 04:09:18; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38191
 8; -48.3; 20-JUN-2009 04:15:13; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38191
 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
 10; 457.6; 20-JUN-2009 04:23:39; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38192
 11; 593.4; 20-JUN-2009 04:25:55; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38192
 12; 1227.8; 20-JUN-2009 04:36:29; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38192


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13; 1315.1; 20-JUN-2009 04:37:57; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38192
14; 1447.7; 20-JUN-2009 04:40:09; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38192
15; 1995.2; 20-JUN-2009 04:49:17; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38192
16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
17; 2748.4; 20-JUN-2009 05:01:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38192
18; 2846.0; 20-JUN-2009 05:03:27; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38192
19; 3449.7; 20-JUN-2009 05:13:31; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38192
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 3; -1764.9; 20-JUN-2009 05:27:13; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38192
 4; -1621.1; 20-JUN-2009 05:29:36; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38192
 5; -1400.3; 20-JUN-2009 05:33:17; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38192
 6; -502.8; 20-JUN-2009 05:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38192
 7; -401.7; 20-JUN-2009 05:49:56; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38192
 8; -47.4; 20-JUN-2009 05:55:50; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38192
 9; 335.6; 20-JUN-2009 06:02:13; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38193
10; 458.7; 20-JUN-2009 06:04:16; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38193
11; 594.6; 20-JUN-2009 06:06:32; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38193
12; 1228.2; 20-JUN-2009 06:17:06; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38193
13; 1315.5; 20-JUN-2009 06:18:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38193
14; 1448.0; 20-JUN-2009 06:20:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38193
15; 1994.8; 20-JUN-2009 06:29:52; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38193
16; 2141.8; 20-JUN-2009 06:32:19; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38193
17; 2747.6; 20-JUN-2009 06:42:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38193
18; 2845.4; 20-JUN-2009 06:44:03; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38193
19; 3449.1; 20-JUN-2009 06:54:07; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38193
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 2; 1317.3; 20-JUN-2009 19:43:22; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38201
 3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
 4; 1993.8; 20-JUN-2009 19:54:39; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38201
 5; 2140.0; 20-JUN-2009 19:57:05; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38201
 6; 2741.3; 20-JUN-2009 20:07:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38201
 7; 2842.9; 20-JUN-2009 20:08:48; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38201
 8; 3443.5; 20-JUN-2009 20:18:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38201
 9; 3851.6; 20-JUN-2009 20:25:37; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38201
10; 3941.0; 20-JUN-2009 20:27:06; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38201
11; 4271.0; 20-JUN-2009 20:32:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38201
12; 4415.4; 20-JUN-2009 20:35:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38201
13; 4637.9; 20-JUN-2009 20:38:43; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38201
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 3; -39.9; 20-JUN-2009 21:01:21; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38201
 4; 344.2; 20-JUN-2009 21:07:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38202
 5; 467.2; 20-JUN-2009 21:09:48; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38202
 6; 605.8; 20-JUN-2009 21:12:07; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38202
 7; 1230.6; 20-JUN-2009 21:22:31; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38202
 8; 1318.3; 20-JUN-2009 21:23:59; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38202
 9; 1449.9; 20-JUN-2009 21:26:11; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38202
10; 1993.6; 20-JUN-2009 21:35:14; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38202
11; 2139.8; 20-JUN-2009 21:37:41; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38202
12; 2740.4; 20-JUN-2009 21:47:41; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38202
13; 2842.6; 20-JUN-2009 21:49:23; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38202
14; 3442.8; 20-JUN-2009 21:59:24; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38202
15; 3851.5; 20-JUN-2009 22:06:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38202
16; 3940.8; 20-JUN-2009 22:07:42; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38202
17; 4415.2; 20-JUN-2009 22:15:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38202
18; 4638.0; 20-JUN-2009 22:19:19; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38202
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 2; -389.4; 20-JUN-2009 22:36:07; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38202
 3; -38.8; 20-JUN-2009 22:41:58; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38202
 4; 345.4; 20-JUN-2009 22:48:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38203
 5; 468.5; 20-JUN-2009 22:50:25; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38203
 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
 7; 1231.0; 20-JUN-2009 23:03:08; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38203

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8; 1317.8; 20-JUN-2009 23:04:35; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38203
 9; 1450.3; 20-JUN-2009 23:06:47; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38203
 10; 1993.0; 20-JUN-2009 23:15:50; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38203
 11; 2139.4; 20-JUN-2009 23:18:16; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38203
 12; 2739.6; 20-JUN-2009 23:28:16; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38203
 13; 2842.0; 20-JUN-2009 23:29:59; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38203
 14; 3442.4; 20-JUN-2009 23:39:59; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38203
 15; 3850.9; 20-JUN-2009 23:46:48; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38203
 16; 3940.3; 20-JUN-2009 23:48:17; Bright; 26.5; 68; 18Alp Cas ; 2.22; 4500;occ; 53; 0;38203
 17; 4415.4; 20-JUN-2009 23:56:12; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38203
 18; 4638.2; 20-JUN-2009 23:59:55; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38203

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 2;-2092.4; 20-JUN-2009 07:02:21; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38193
 3;-1764.9; 20-JUN-2009 07:07:49; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38193
 4;-1621.0; 20-JUN-2009 07:10:12; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38193
 5;-1400.0; 20-JUN-2009 07:13:53; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38193
 6; -501.4; 20-JUN-2009 07:28:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38193
 7; -400.3; 20-JUN-2009 07:30:33; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38193
 8; -46.5; 20-JUN-2009 07:36:27; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38193
 9; 336.2; 20-JUN-2009 07:42:50; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38194
 10; 459.6; 20-JUN-2009 07:44:53; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38194
 11; 595.7; 20-JUN-2009 07:47:09; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
 12; 1228.5; 20-JUN-2009 07:57:42; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194
 13; 1315.6; 20-JUN-2009 07:59:09; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
 14; 1448.4; 20-JUN-2009 08:01:22; Bright; 34.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 68; 0;38194

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 2; 2141.6; 20-JUN-2009 08:12:55; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38194
 3; 2746.9; 20-JUN-2009 08:23:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38194
 4; 2845.1; 20-JUN-2009 08:24:39; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38194
 5; 3448.4; 20-JUN-2009 08:34:42; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38194
 6; 3854.8; 20-JUN-2009 08:41:28; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38194
 7; 3943.3; 20-JUN-2009 08:42:57; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38194
 8; 4270.8; 20-JUN-2009 08:48:24; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38194
 9; 4414.9; 20-JUN-2009 08:50:48; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38194
 10; 4636.1; 20-JUN-2009 08:54:29; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38194
 11; 5535.8; 20-JUN-2009 09:09:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38194
 12; 5636.5; 20-JUN-2009 09:11:10; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38194
 13; 5990.3; 20-JUN-2009 09:17:04; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38194
 14; 6373.7; 20-JUN-2009 09:23:27; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38194
 15; 6496.4; 20-JUN-2009 09:25:30; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38194
 16; 6632.6; 20-JUN-2009 09:27:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
 17; 7264.5; 20-JUN-2009 09:38:18; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194
 18; 7351.4; 20-JUN-2009 09:39:45; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
 19; 7484.2; 20-JUN-2009 09:41:58; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38194

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 3; 2746.0; 20-JUN-2009 10:03:35; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38195
 4; 2844.5; 20-JUN-2009 10:05:14; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38195
 5; 3447.6; 20-JUN-2009 10:15:17; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38195
 6; 3854.2; 20-JUN-2009 10:22:04; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38195
 7; 3943.0; 20-JUN-2009 10:23:32; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38195
 8; 4271.0; 20-JUN-2009 10:29:00; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38195
 9; 4414.9; 20-JUN-2009 10:31:24; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38195
 10; 4636.5; 20-JUN-2009 10:35:06; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38195
 11; 5537.1; 20-JUN-2009 10:50:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38195
 12; 5638.0; 20-JUN-2009 10:51:47; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38195
 13; 5990.8; 20-JUN-2009 10:57:40; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38195
 14; 6374.3; 20-JUN-2009 11:04:04; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38195
 15; 6497.5; 20-JUN-2009 11:06:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38195
 16; 6634.0; 20-JUN-2009 11:08:23; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38195
 17; 7265.0; 20-JUN-2009 11:18:54; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38195
 18; 7352.1; 20-JUN-2009 11:20:21; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38195
 19; 7484.9; 20-JUN-2009 11:22:34; Bright; 34.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 68; 0;38195

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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
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6; 1477.7; 29-JUN-2009 21:43:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38331
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