

GOMOS Daily Report 05-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 04:39:59
Data source version	GOMOS/5.00
Start time of products	05JUN2009 00:01:37
Stop time of products	05JUN2009 06:16:53
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)

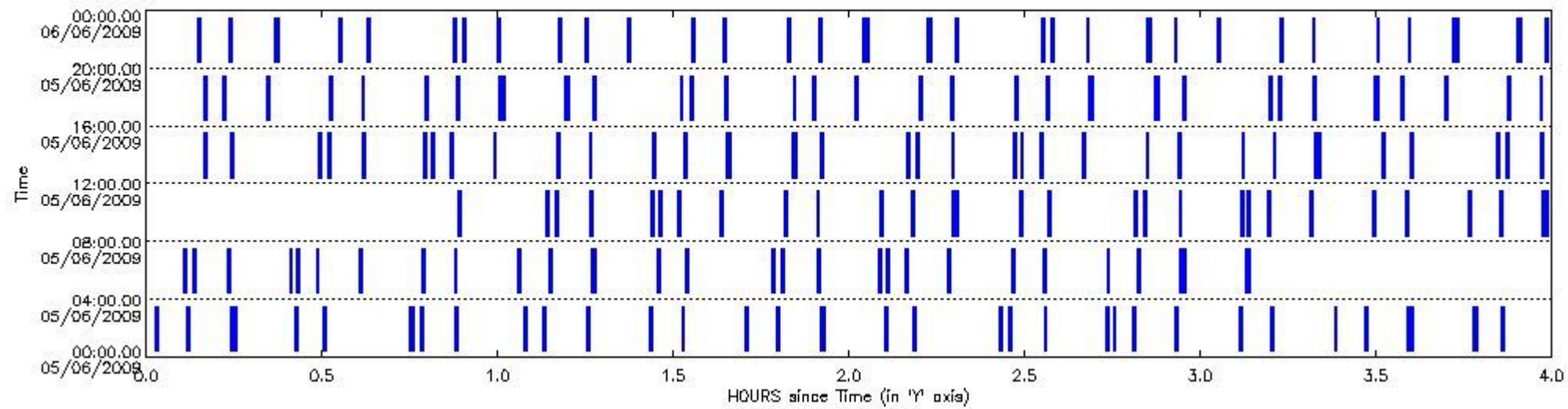
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

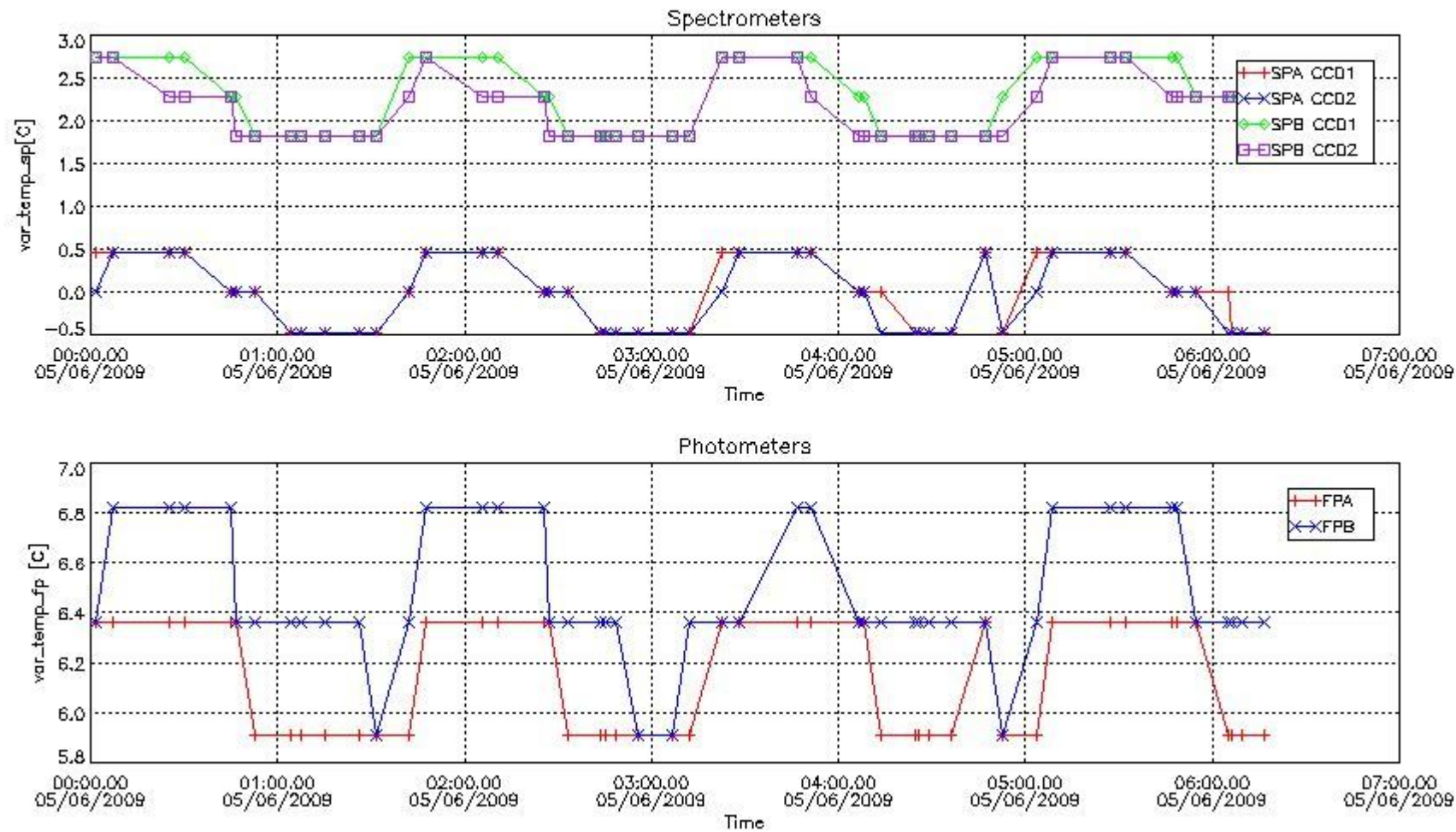
No missing products.

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_1PNPDE20090605_000137_000000292079_00345_37974_5339.N1	05-JUN-2009 00:01:37	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37974	No
2	GOM_TRA_1PNPDE20090605_000653_000000302079_00345_37974_5340.N1	05-JUN-2009 00:06:53	Dark	30.000	140	88Gam Peg	2.8340	26000.	60	37974	No
3	GOM_TRA_1PNPDE20090605_002518_000000412079_00345_37974_5468.N1	05-JUN-2009 00:25:18	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	37974	No
4	GOM_TRA_1PNPDE20090605_003009_000000342079_00346_37975_5469.N1	05-JUN-2009 00:30:09	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37975	No
5	GOM_TRA_1PNPDE20090605_004501_000000332079_00346_37975_5470.N1	05-JUN-2009 00:45:01	Twilight	33.000	38	20Eps Sgr	1.8360	11000.	66	37975	No
6	GOM_TRA_1PNPDE20090605_004640_000000342079_00346_37975_5471.N1	05-JUN-2009 00:46:40	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37975	No
7	GOM_TRA_1PNPDE20090605_005242_000000302079_00346_37975_5472.N1	05-JUN-2009 00:52:42	Twilight	29.500	86	35Eta Oph	2.4300	10200.	59	37975	No
8	GOM_TRA_1PNPDE20090605_010428_000000302079_00346_37975_5473.N1	05-JUN-2009 01:04:28	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37975	No
9	GOM_TRA_1PNPDE20090605_010747_000000312079_00346_37975_5474.N1	05-JUN-2009 01:07:47	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37975	No
10	GOM_TRA_1PNPDE20090605_011506_000000322079_00346_37975_5475.N1	05-JUN-2009 01:15:06	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37975	No
11	GOM_TRA_1PNPDE20090605_012558_000000312079_00346_37975_5476.N1	05-JUN-2009 01:25:58	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	37975	No
12	GOM_TRA_1PNPDE20090605_013126_000000252079_00346_37975_5477.N1	05-JUN-2009 01:31:26	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37975	No

13	GOM_TRA_1PNPDE20090605_014213_000000292079_00346_37975_5478.N1	05-JUN-2009 01:42:13	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37975	No
14	GOM_TRA_1PNPDE20090605_014729_000000302079_00346_37975_5479.N1	05-JUN-2009 01:47:29	Dark	30.000	140	88Gam Peg	2.8340	26000.	60	37975	No
15	GOM_TRA_1PNPDE20090605_020556_000000402079_00346_37975_5575.N1	05-JUN-2009 02:05:56	Dark	40.000	18	24Alp PsA	1.1660	9700.0	80	37975	No
16	GOM_TRA_1PNPDE20090605_021046_000000342079_00347_37976_5576.N1	05-JUN-2009 02:10:46	Dark	33.500	31	Alp Gru	1.7340	15200.	67	37976	No
17	GOM_TRA_1PNPDE20090605_022538_000000332079_00347_37976_5577.N1	05-JUN-2009 02:25:38	Twilight	32.500	38	20Eps Sgr	1.8360	11000.	65	37976	No
18	GOM_TRA_1PNPDE20090605_022717_000000342079_00347_37976_5578.N1	05-JUN-2009 02:27:17	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37976	No
19	GOM_TRA_1PNPDE20090605_023318_000000302079_00347_37976_5579.N1	05-JUN-2009 02:33:18	Twilight	29.500	86	35Eta Oph	2.4300	10200.	59	37976	No
20	GOM_TRA_1PNPDE20090605_024349_000000282079_00347_37976_5580.N1	05-JUN-2009 02:43:49	Twilight	28.000	59	55Alp Oph	2.0800	8900.0	56	37976	No
21	GOM_TRA_1PNPDE20090605_024504_000000302079_00347_37976_5581.N1	05-JUN-2009 02:45:04	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37976	No
22	GOM_TRA_1PNPDE20090605_024822_000000312079_00347_37976_5582.N1	05-JUN-2009 02:48:22	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37976	No
23	GOM_TRA_1PNPDE20090605_025542_000000322079_00347_37976_5583.N1	05-JUN-2009 02:55:42	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37976	No
24	GOM_TRA_1PNPDE20090605_030634_000000302079_00347_37976_5584.N1	05-JUN-2009 03:06:34	Twilight	30.000	89	5Alp Cep	2.4510	8000.0	60	37976	No
25	GOM_TRA_1PNPDE20090605_031202_000000252079_00347_37976_5738.N1	05-JUN-2009 03:12:02	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37976	No
26	GOM_TRA_1PNPDE20090605_032249_000000292079_00347_37976_5739.N1	05-JUN-2009 03:22:49	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37976	No
27	GOM_TRA_1PNPDE20090605_032806_000000312079_00347_37976_5740.N1	05-JUN-2009 03:28:06	Dark	31.000	140	88Gam Peg	2.8340	26000.	62	37976	No
28	GOM_TRA_1PNPDE20090605_034633_000000412079_00347_37976_5741.N1	05-JUN-2009 03:46:33	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	37976	No
29	GOM_TRA_1PNPDE20090605_035123_000000342079_00348_37977_5742.N1	05-JUN-2009 03:51:23	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37977	No
30	GOM_TRA_1PNPDE20090605_040615_000000332079_00348_37977_5743.N1	05-JUN-2009 04:06:15	Twilight	32.500	38	20Eps Sgr	1.8360	11000.	65	37977	No
31	GOM_TRA_1PNPDE20090605_040753_000000342079_00348_37977_5744.N1	05-JUN-2009 04:07:53	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37977	No
32	GOM_TRA_1PNPDE20090605_041354_000000292079_00348_37977_5745.N1	05-JUN-2009 04:13:54	Twilight	29.000	86	35Eta Oph	2.4300	10200.	58	37977	No
33	GOM_TRA_1PNPDE20090605_042424_000000282079_00348_37977_5746.N1	05-JUN-2009 04:24:24	Twilight	28.000	59	55Alp Oph	2.0800	8900.0	56	37977	No
34	GOM_TRA_1PNPDE20090605_042540_000000302079_00348_37977_5747.N1	05-JUN-2009 04:25:40	Bright	29.500	127	27Bet Her	2.7810	4700.0	59	37977	No
35	GOM_TRA_1PNPDE20090605_042858_000000312079_00348_37977_5748.N1	05-JUN-2009 04:28:58	Bright	31.000	133	40Zet Her	2.8070	6000.0	62	37977	No
36	GOM_TRA_1PNPDE20090605_043617_000000322079_00348_37977_5749.N1	05-JUN-2009 04:36:17	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37977	No
37	GOM_TRA_1PNPDE20090605_044709_000000312079_00348_37977_5922.N1	05-JUN-2009 04:47:09	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	37977	No
38	GOM_TRA_1PNPDE20090605_045238_000000252079_00348_37977_5923.N1	05-JUN-2009 04:52:38	Twilight	25.000	74	11Bet Cas	2.2680	6600.0	50	37977	No
39	GOM_TRA_1PNPDE20090605_050325_000000292079_00348_37977_5924.N1	05-JUN-2009 05:03:25	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37977	No
40	GOM_TRA_1PNPDE20090605_050843_000000312079_00348_37977_5925.N1	05-JUN-2009 05:08:43	Dark	30.500	140	88Gam Peg	2.8340	26000.	61	37977	No
41	GOM_TRA_1PNPDE20090605_052710_000000412079_00348_37977_5926.N1	05-JUN-2009 05:27:10	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	37977	No
42	GOM_TRA_1PNPDE20090605_053200_000000342079_00349_37978_5927.N1	05-JUN-2009 05:32:00	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37978	No
43	GOM_TRA_1PNPDE20090605_054651_000000322079_00349_37978_5928.N1	05-JUN-2009 05:46:51	Twilight	32.000	38	20Eps Sgr	1.8360	11000.	64	37978	No
44	GOM_TRA_1PNPDE20090605_054830_000000342079_00349_37978_5929.N1	05-JUN-2009 05:48:30	Twilight	33.500	116	19Del Sgr	2.7000	4100.0	67	37978	No
45	GOM_TRA_1PNPDE20090605_055430_000000302079_00349_37978_5930.N1	05-JUN-2009 05:54:30	Bright	29.500	86	35Eta Oph	2.4300	10200.	59	37978	No
46	GOM_TRA_1PNPDE20090605_060500_000000352079_00349_37978_5931.N1	05-JUN-2009 06:05:00	Twilight	35.000	59	55Alp Oph	2.0800	8900.0	70	37978	No
47	GOM_TRA_1PNPDE20090605_060615_000000302079_00349_37978_5932.N1	05-JUN-2009 06:06:15	Bright	30.000	127	27Bet Her	2.7810	4700.0	60	37978	No
48	GOM_TRA_1PNPDE20090605_060934_000000312079_00349_37978_5933.N1	05-JUN-2009 06:09:34	Bright	30.500	133	40Zet Her	2.8070	6000.0	61	37978	No
49	GOM_TRA_1PNPDE20090605_061653_000000322079_00349_37978_5934.N1	05-JUN-2009 06:16:53	Bright	31.500	130	23Bet Dra	2.7990	5800.0	63	37978	No

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



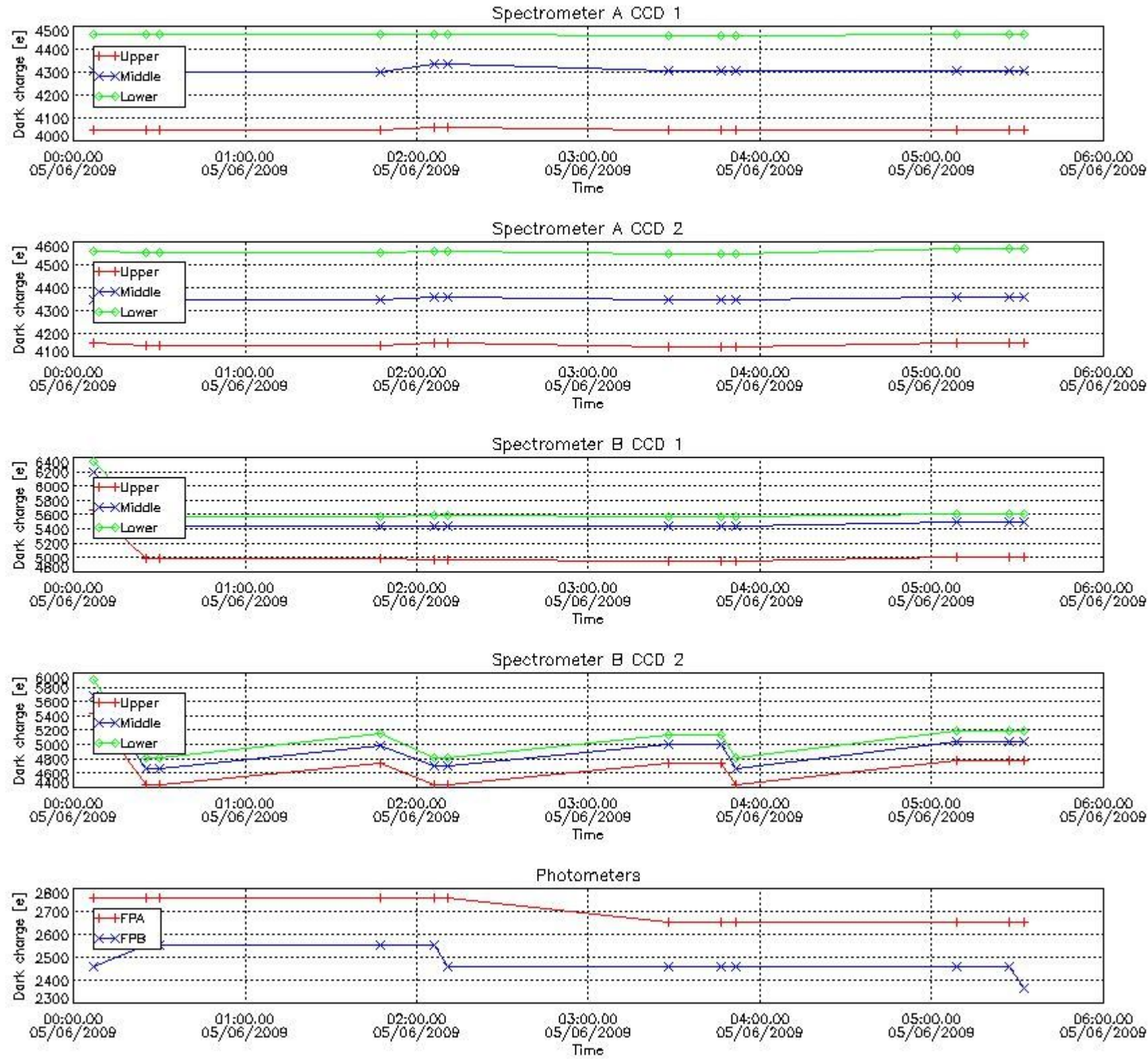
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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



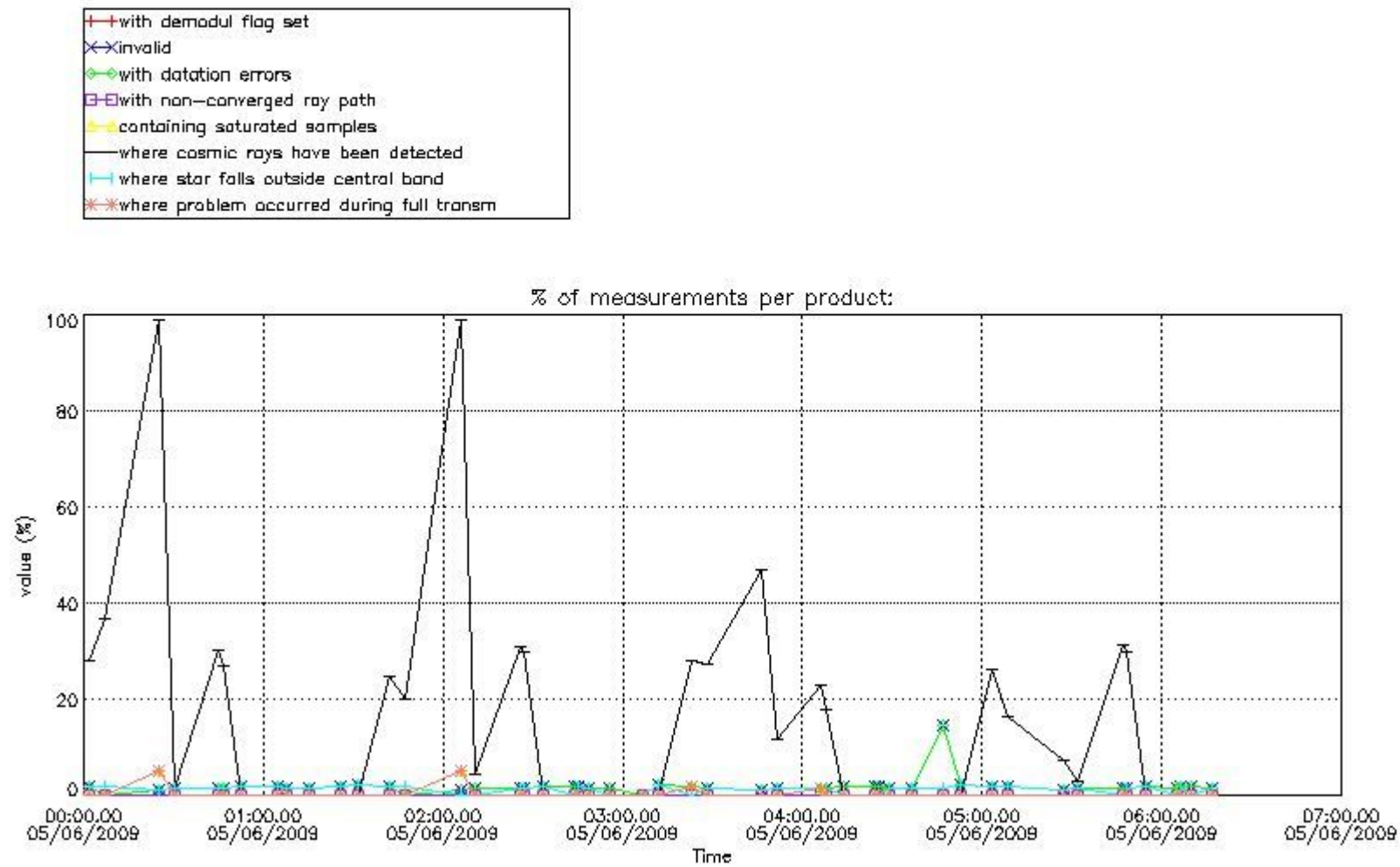
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

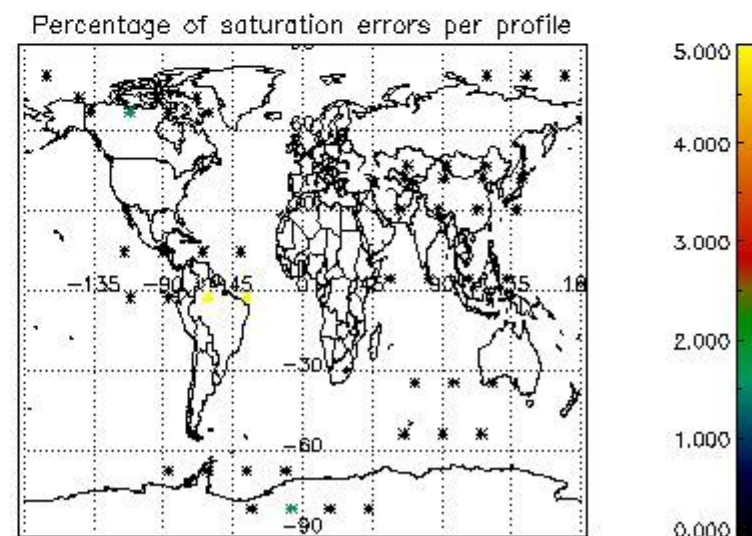
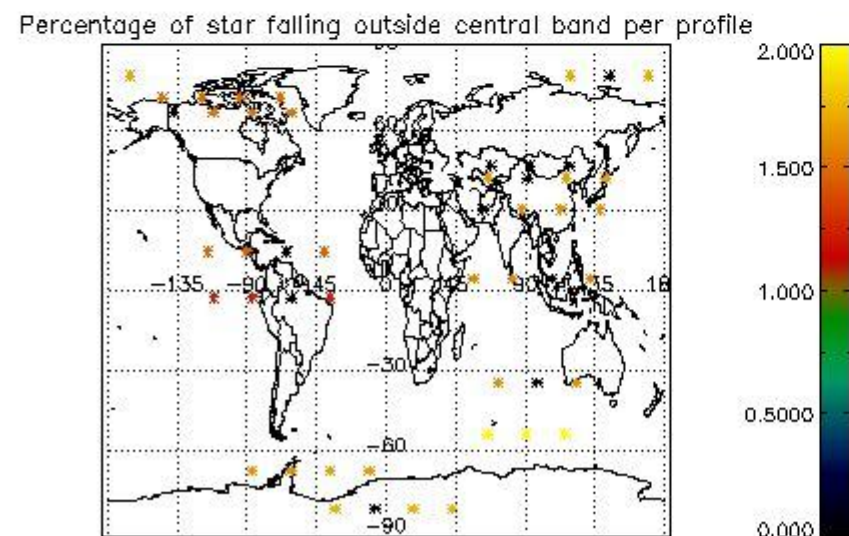
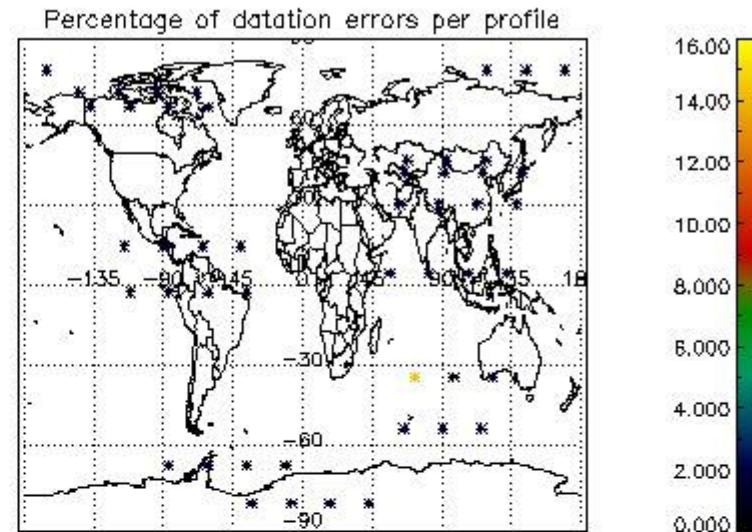
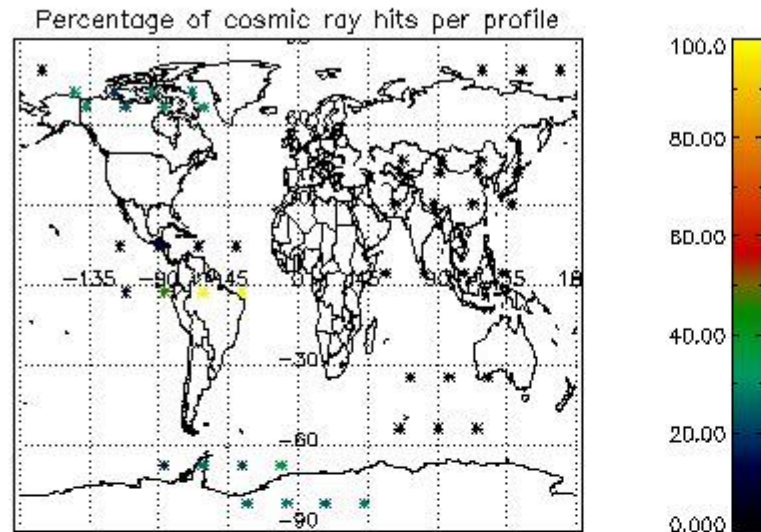
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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)



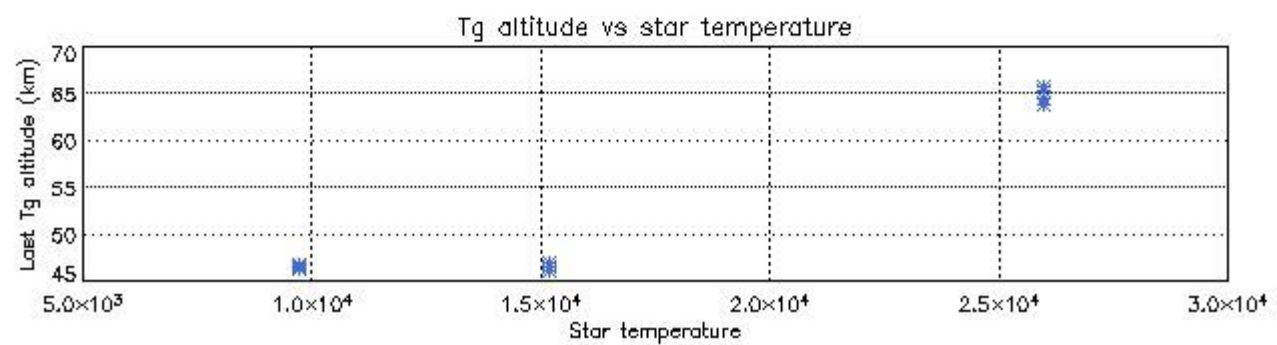
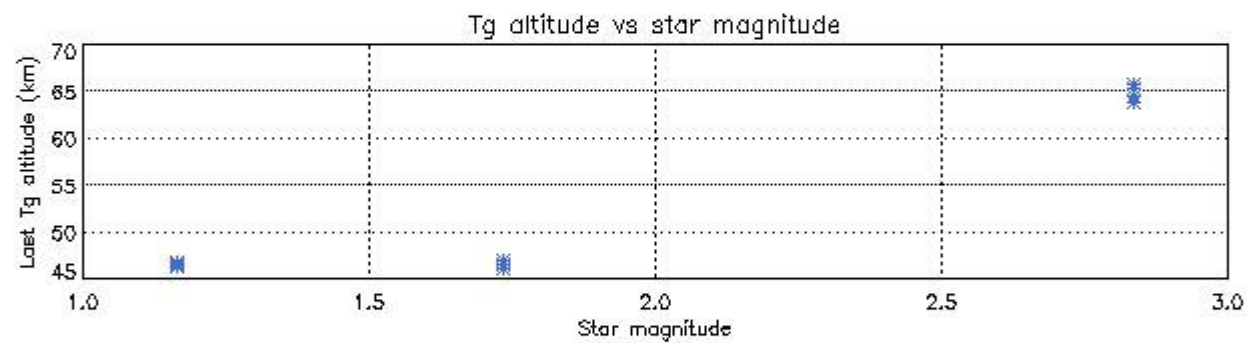
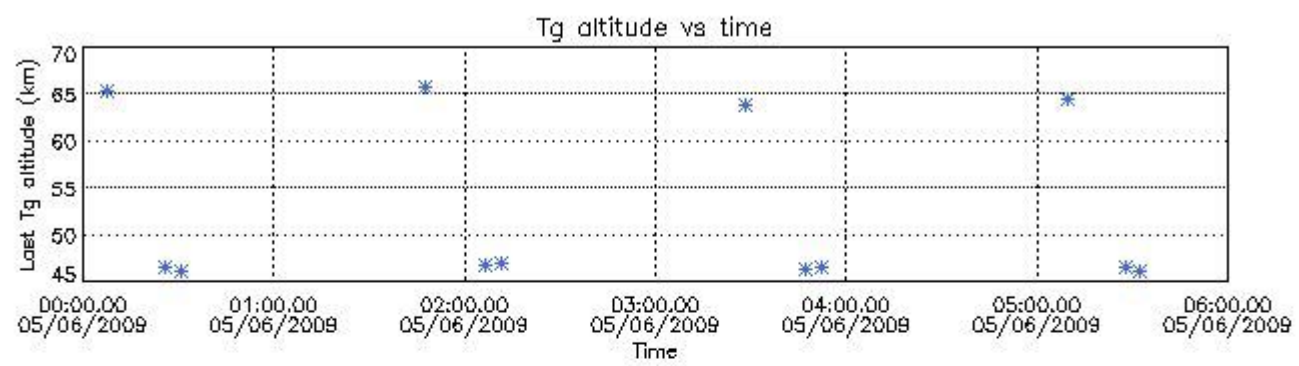
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	52.587	47.684	NaN
St. deviation:	9.0671	1.2293	NaN
Maximum:	65.747	50.662	NaN
Minimum:	45.981	46.227	NaN
Number of data:	12.000	13.000	NaN

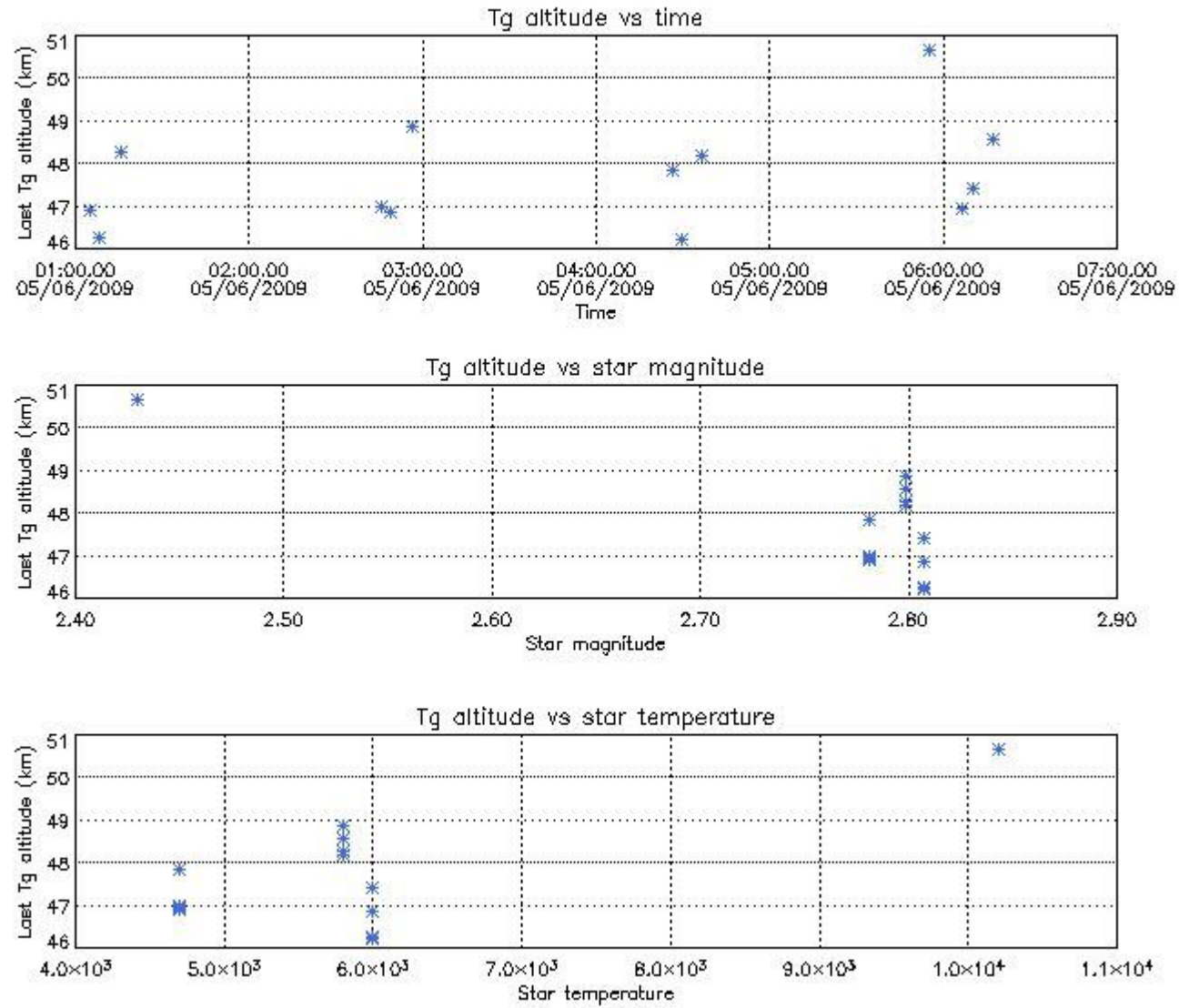
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

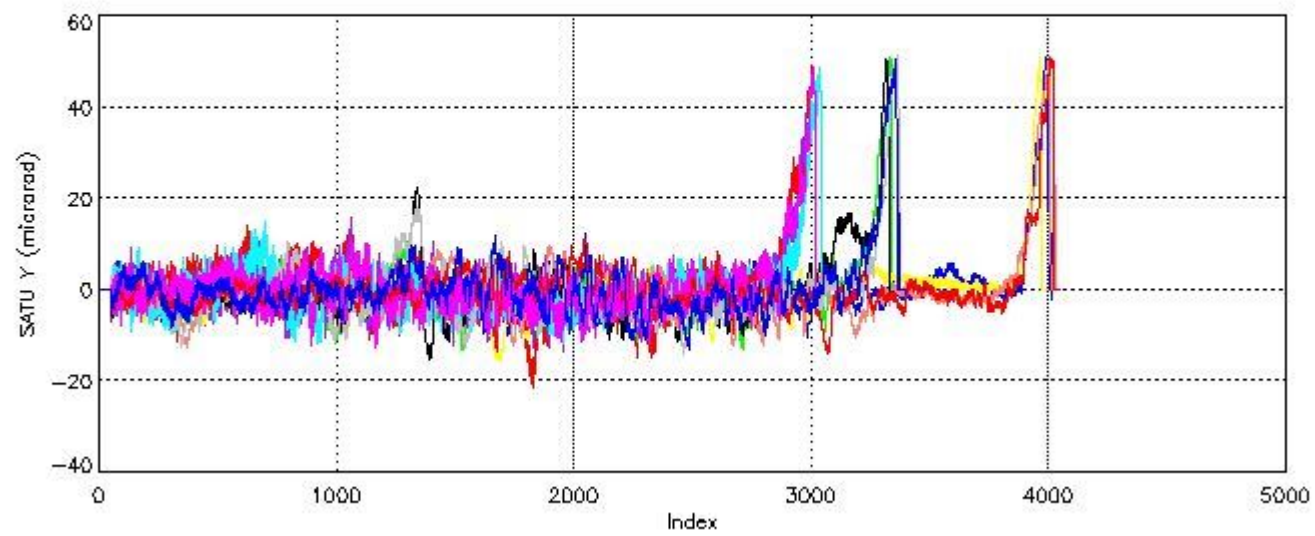
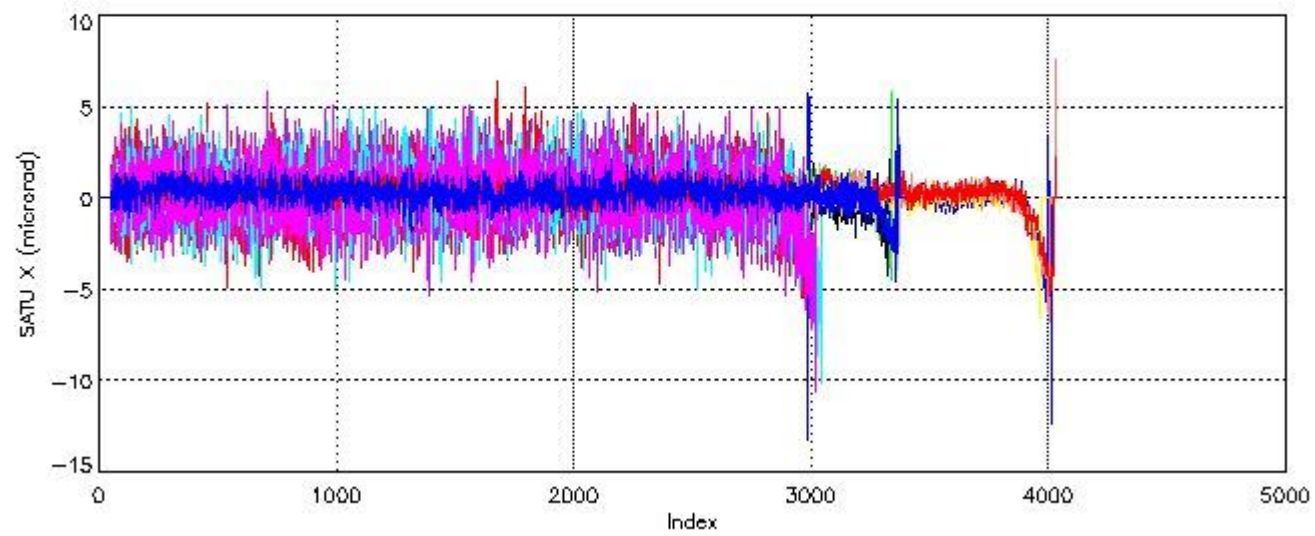


7. Star Acquisition and Tracking Unit (SATU)

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:	0.32212	-0.72564	0.33007	-1.2788
St. deviation:	0.80903	3.1356	0.87044	2.5105
Maximum:	5.8000	15.500	4.1000	10.100
Minimum:	-4.9000	-12.800	-3.3000	-13.900

Number of data:	14750.	14750.	12800.	12800.
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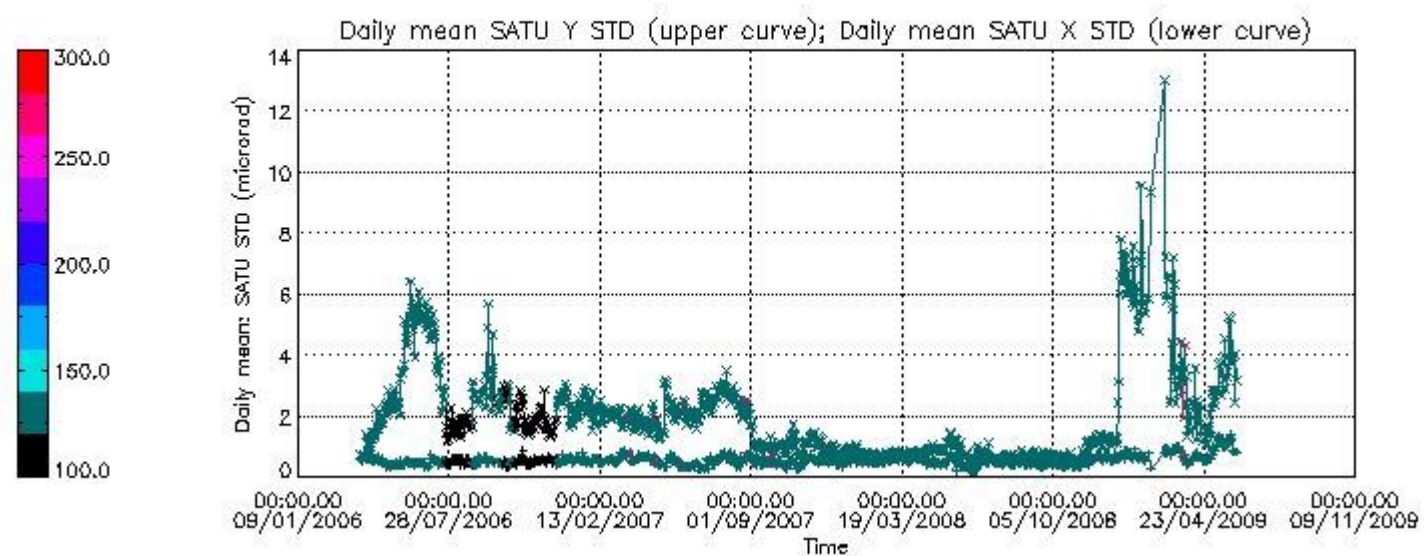
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

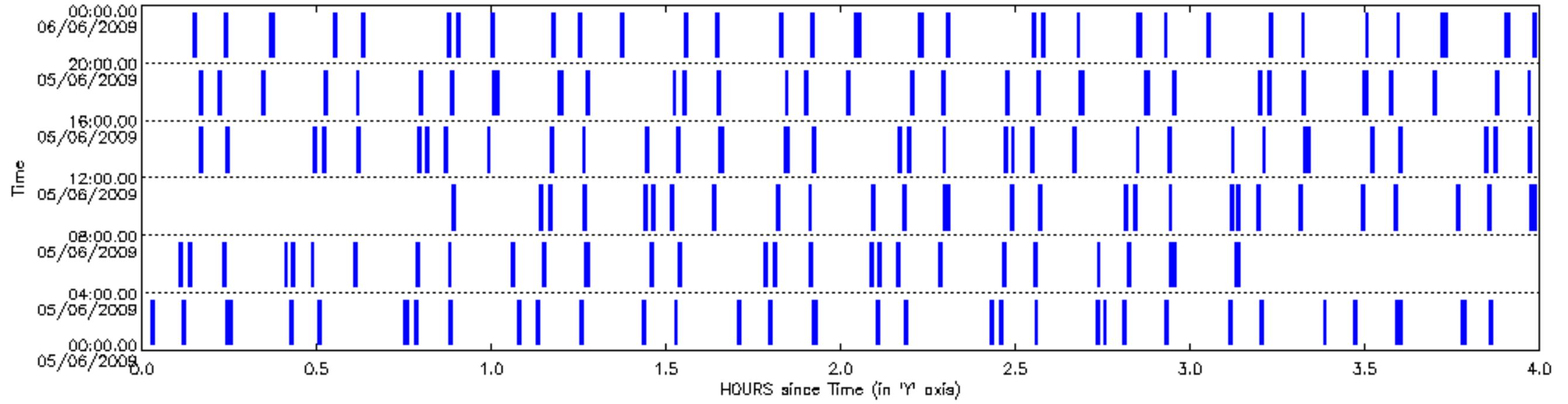
Lower curve: STD of SATU X axis

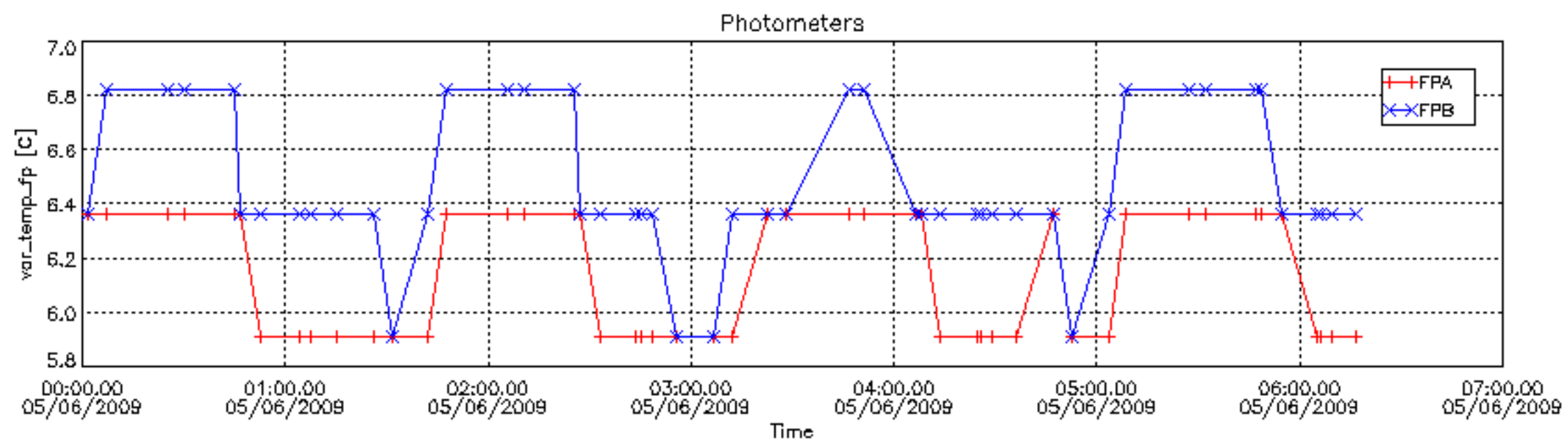
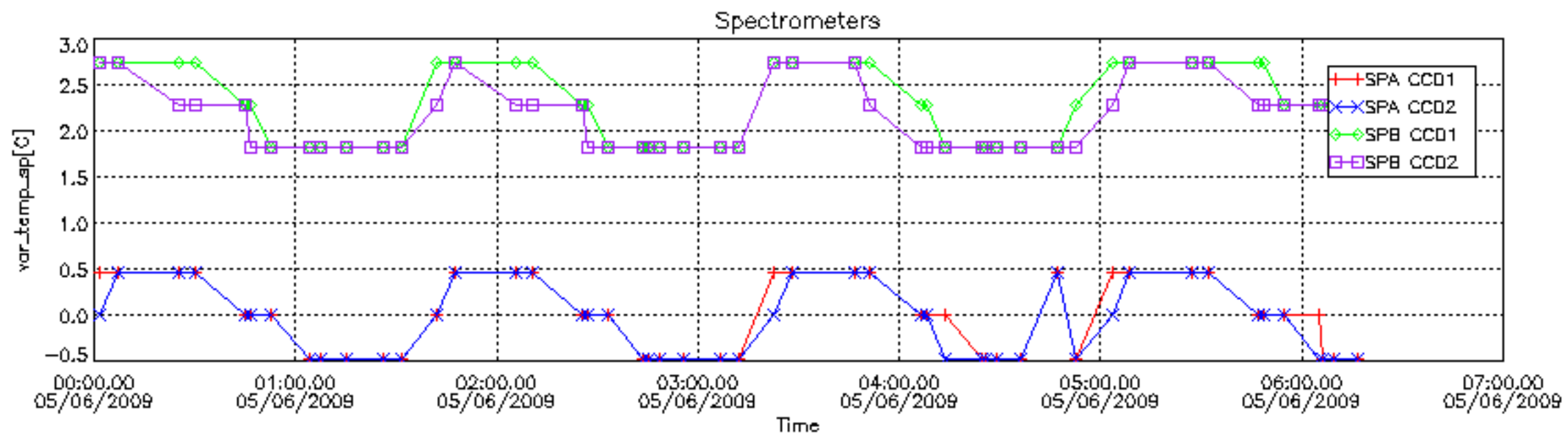


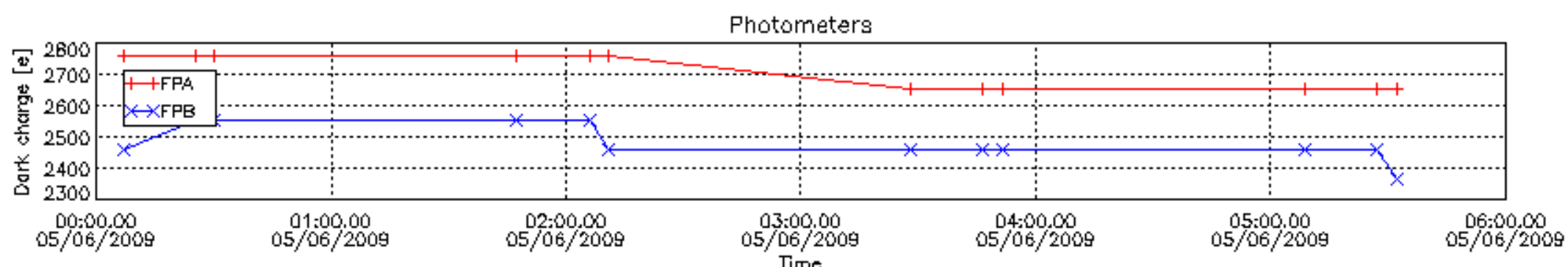
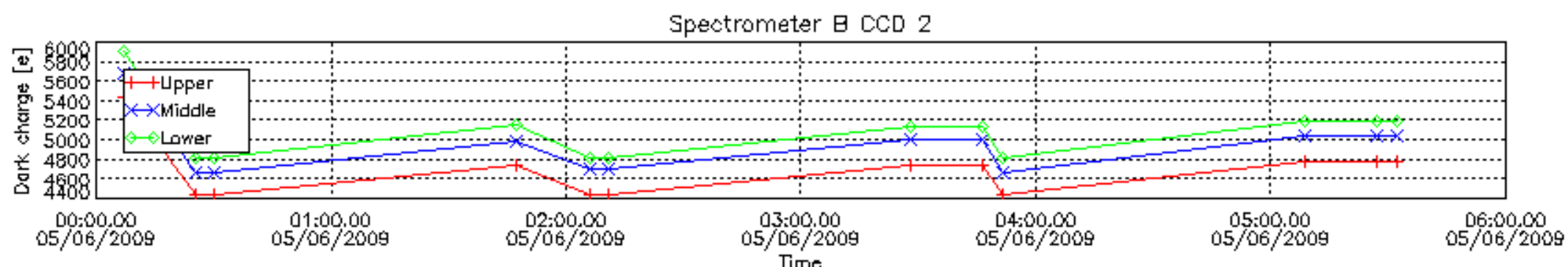
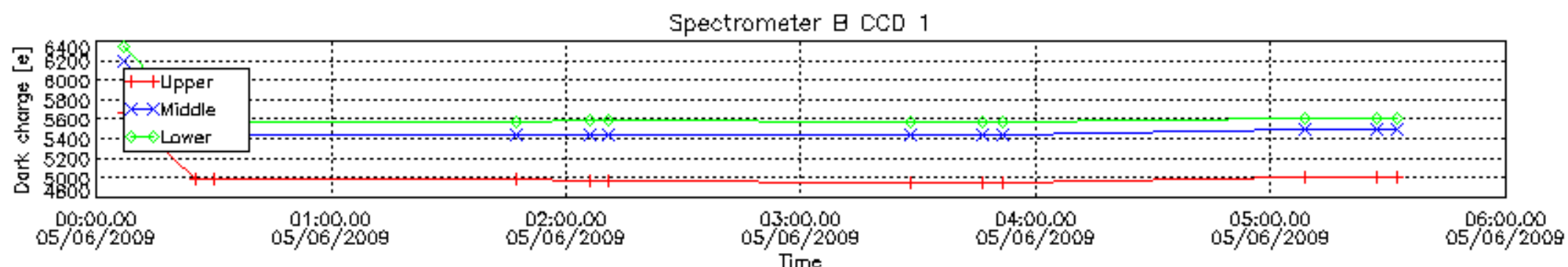
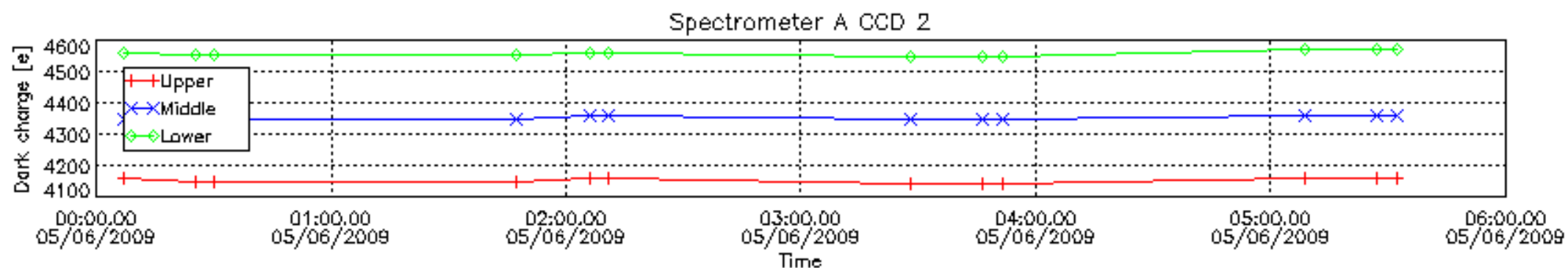
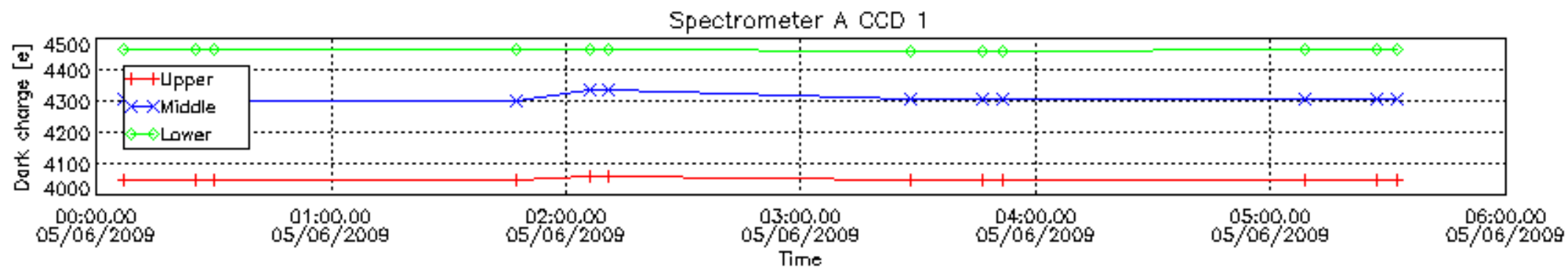
8. Auxiliary Data Files used for the production reported in section 2.4

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.

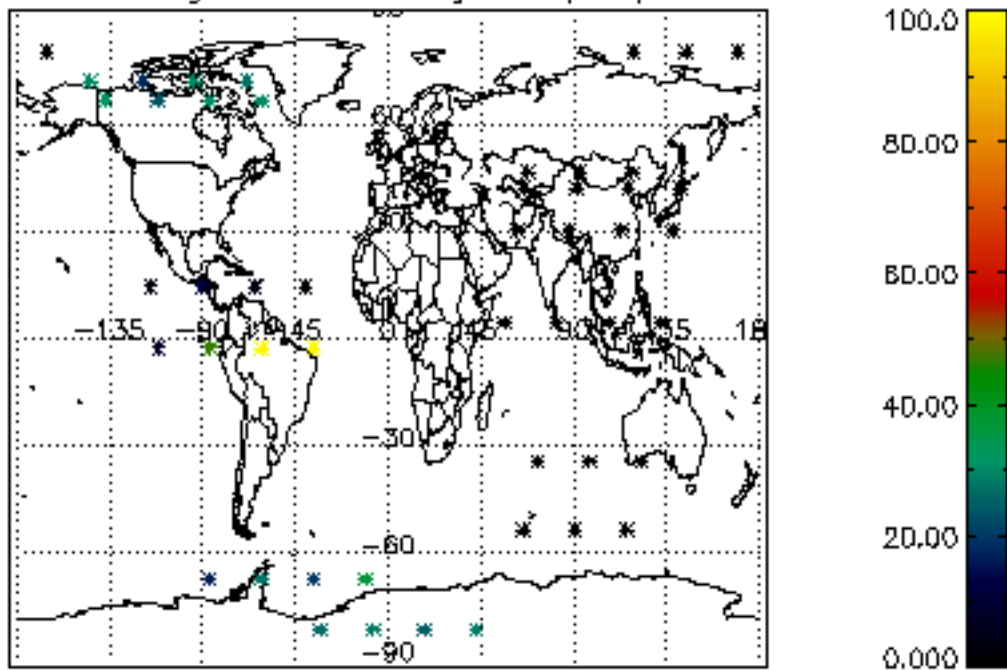
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-JUN-2009 00:01:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	05-JUN-2009 00:01:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-JUN-2009 00:01:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JUN-2009 00:01:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-JUN-2009 00:01:37
ECMWF_FILE	AUX_ECF_AXNECM20090604_064111_20090604_210000_20090605_090000	1	05-JUN-2009 00:01:37
ECMWF_FILE	AUX_ECF_AXNECM20090604_182117_20090605_030000_20090605_150000	25	05-JUN-2009 03:12:02
OPTIONAL_ECMWF_FILE	MISSING	1	05-JUN-2009 00:01:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090604_204139_000063762079_00343_37972_8086.N1	1	05-JUN-2009 00:01:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090604_223313_000054192079_00344_37973_8087.N1	3	05-JUN-2009 00:25:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090605_014949_000044632079_00346_37975_8089.N1	15	05-JUN-2009 02:05:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090605_030930_000054192079_00347_37976_8090.N1	37	05-JUN-2009 04:47:09



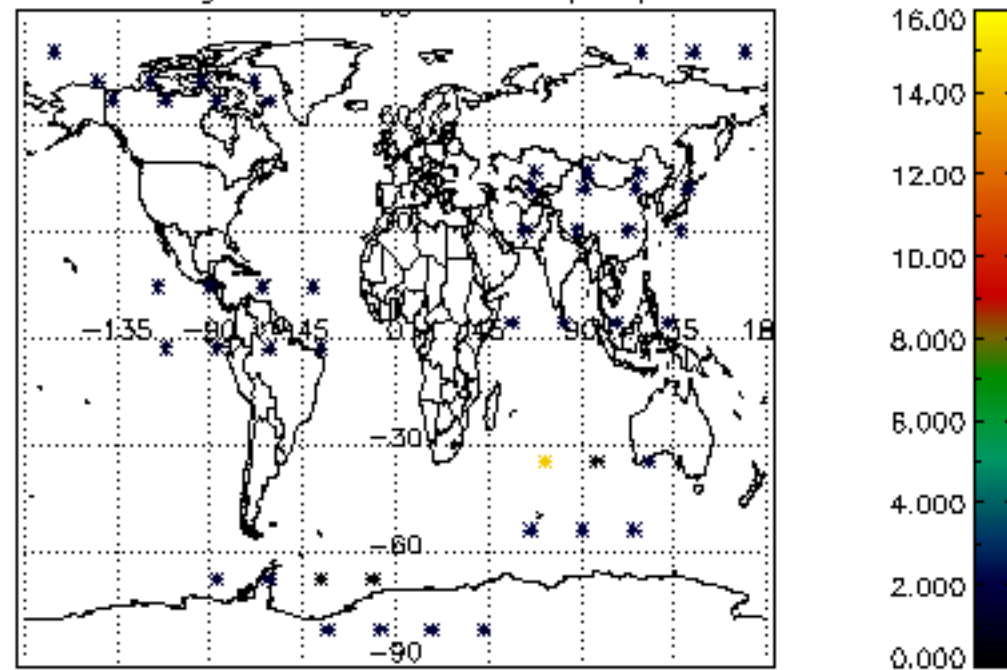




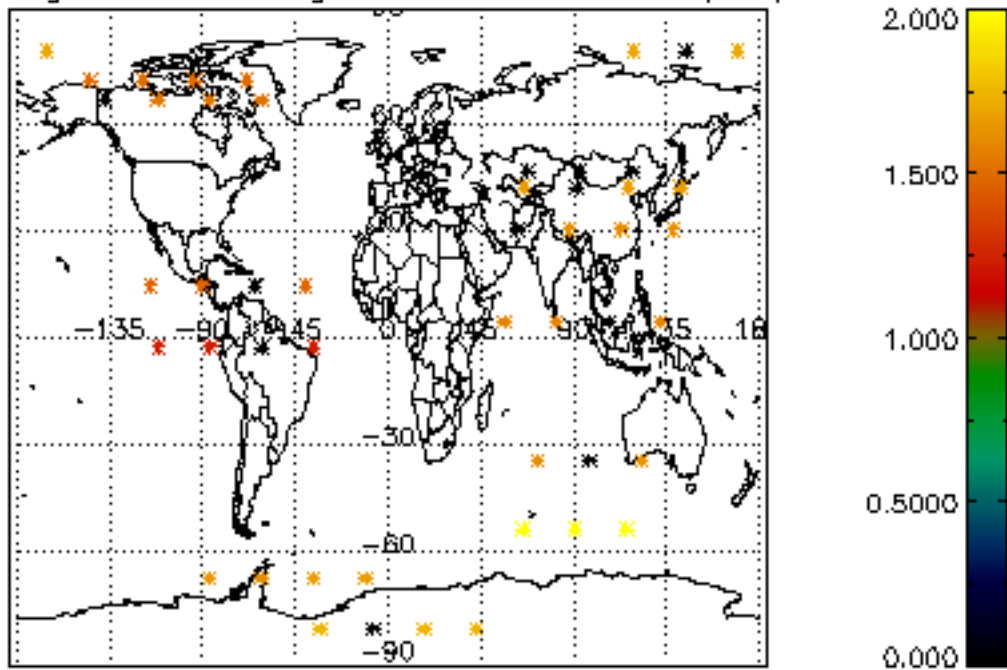
Percentage of cosmic ray hits per profile



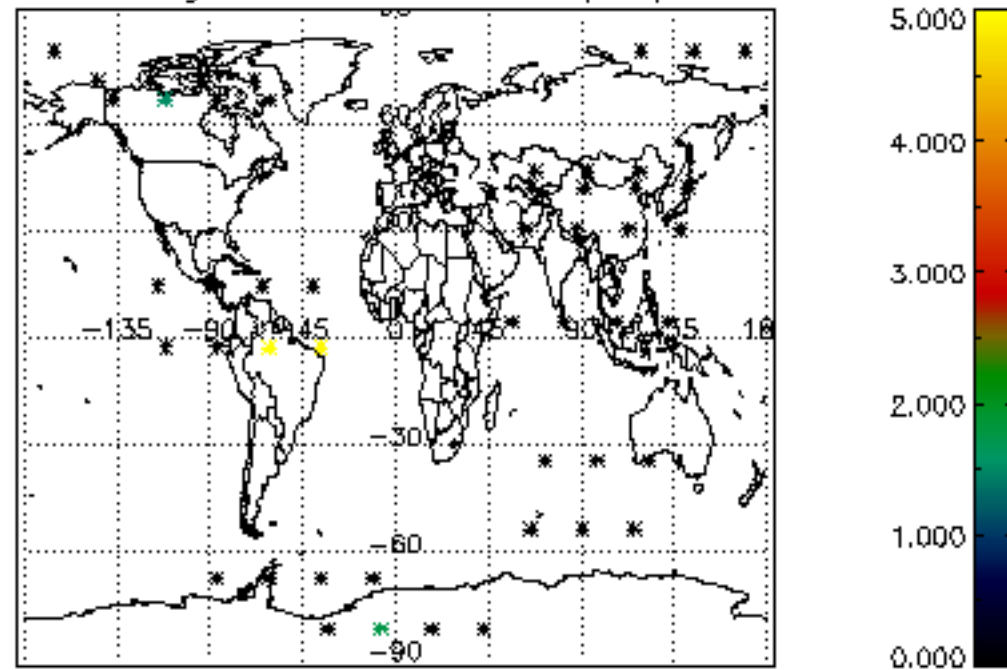
Percentage of datation errors per profile



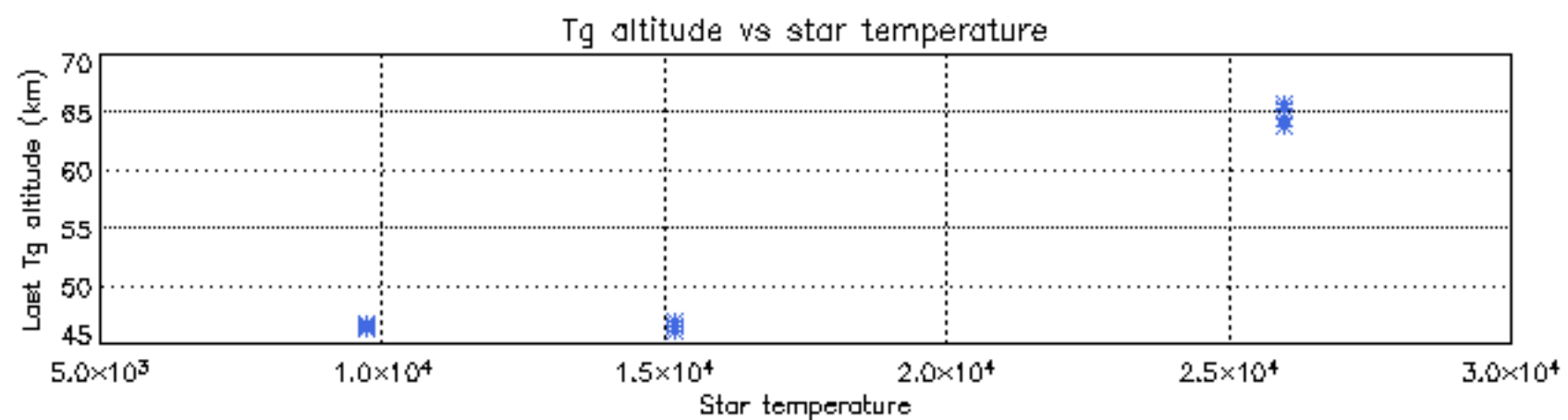
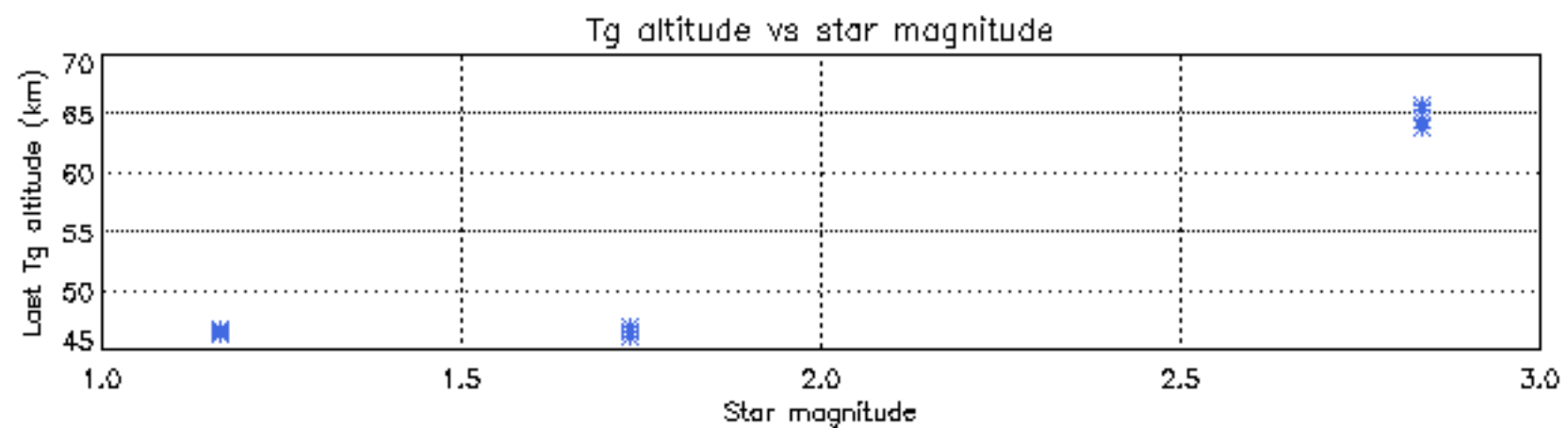
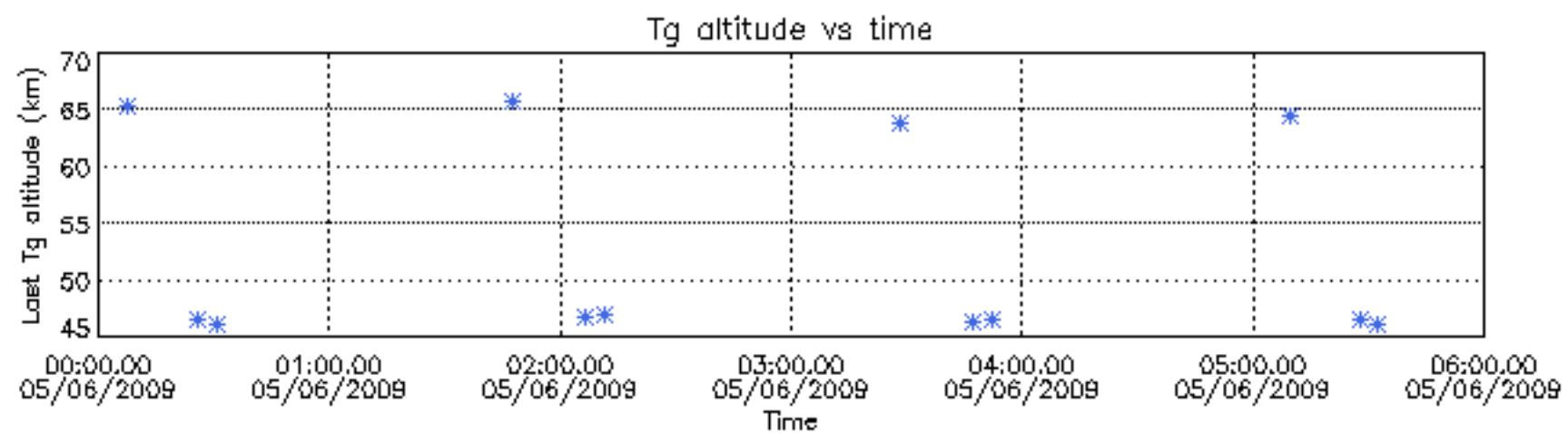
Percentage of star falling outside central band per profile



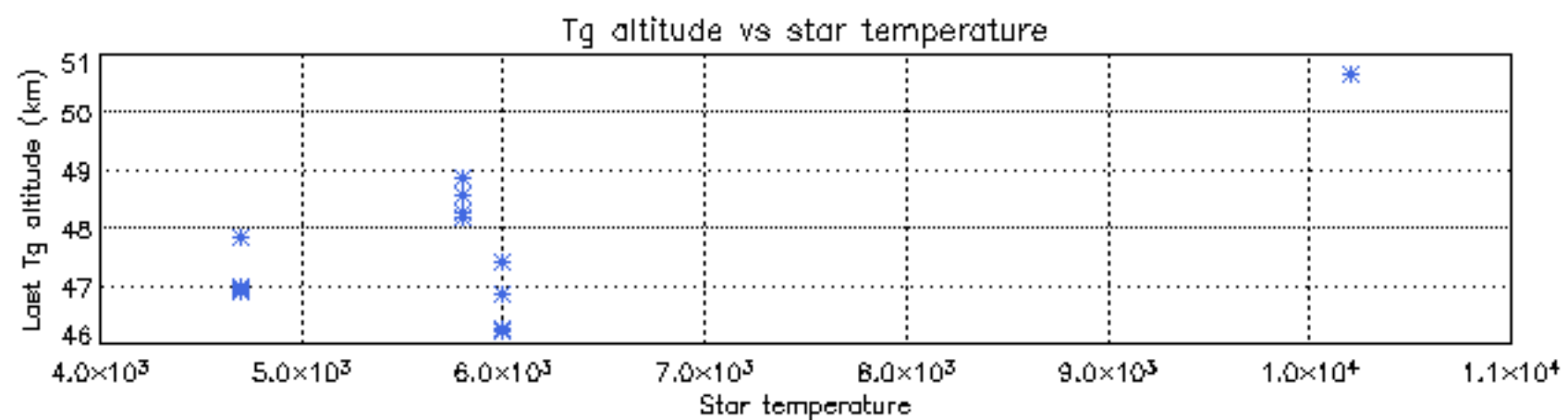
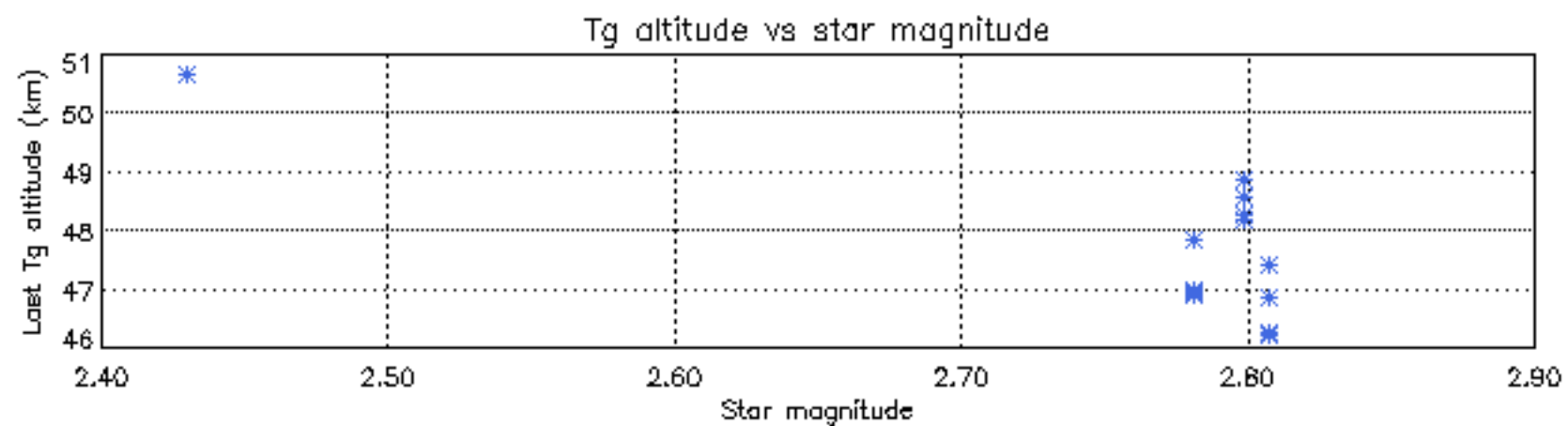
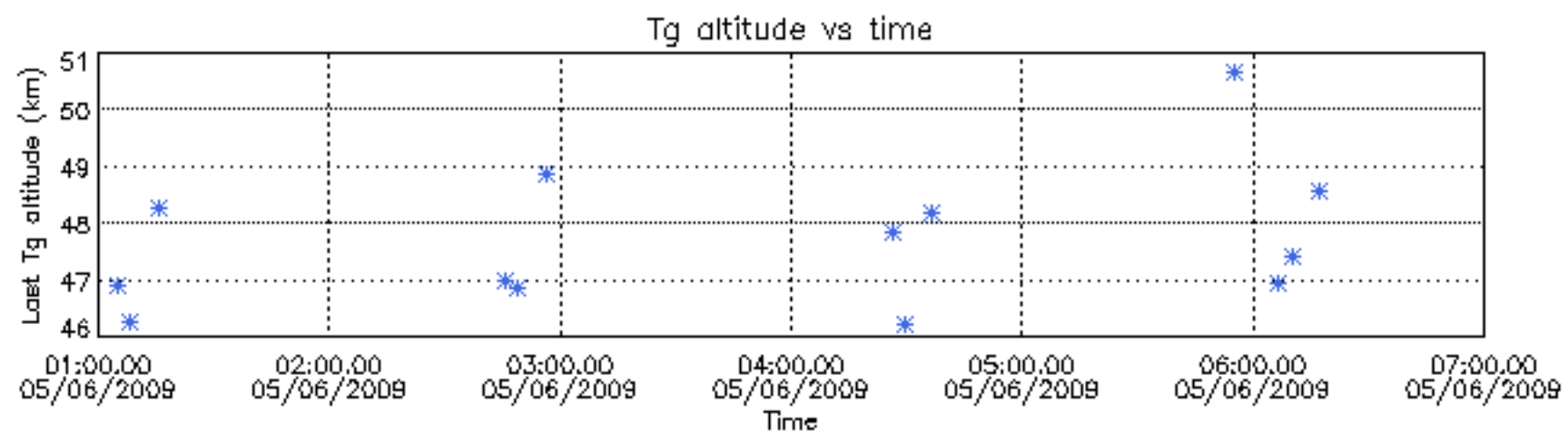
Percentage of saturation errors per profile

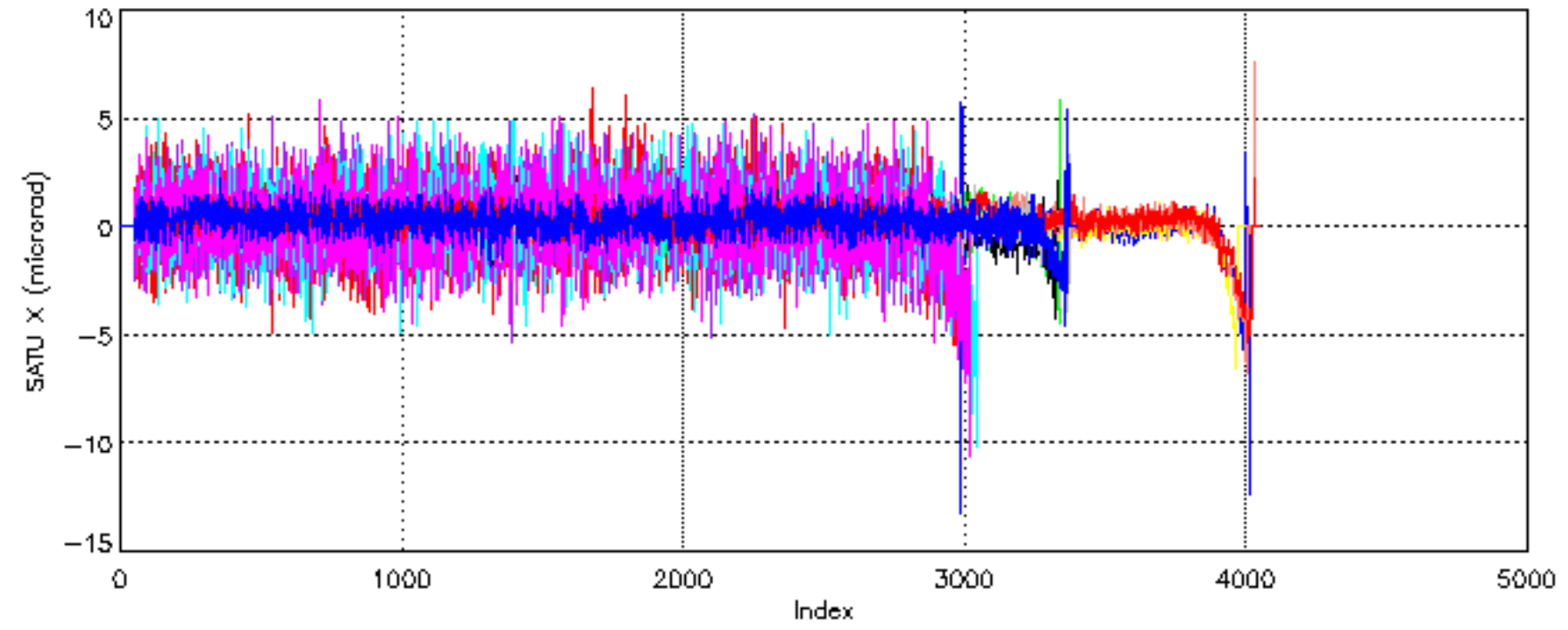


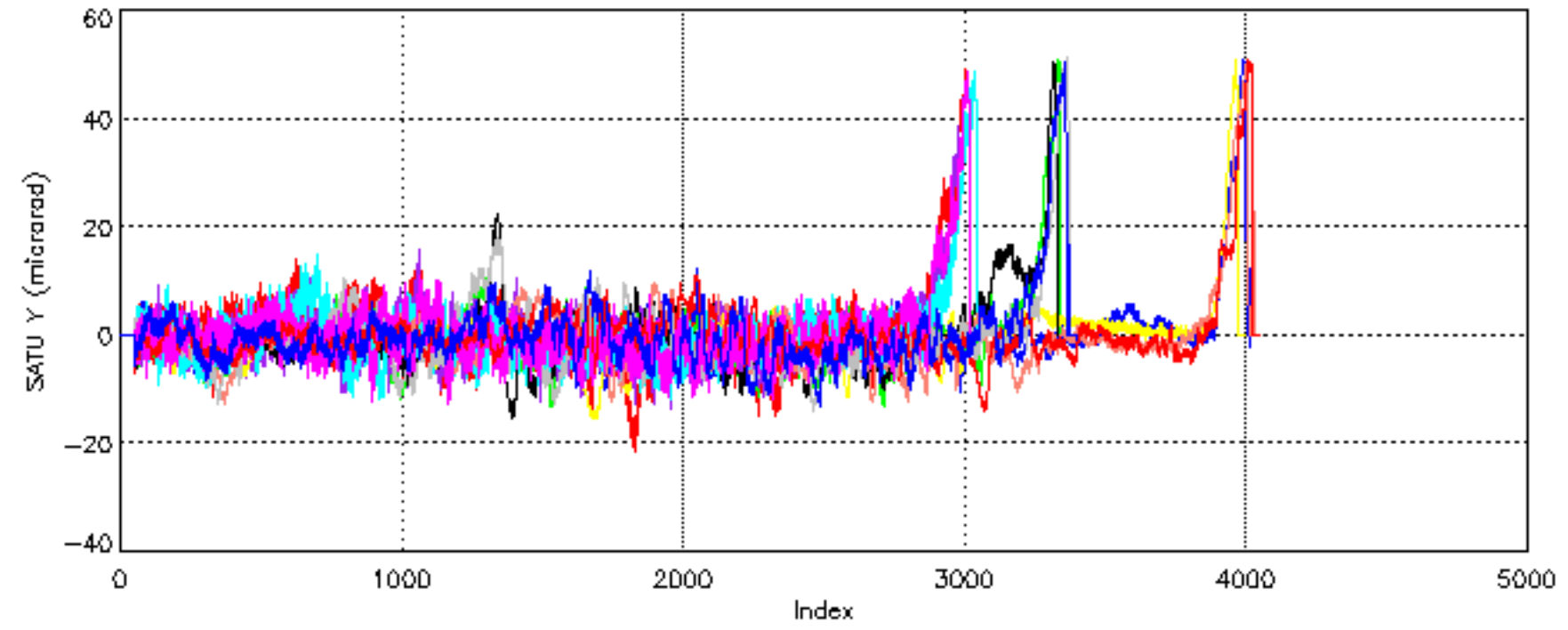
Tangent altitude at which the star is lost

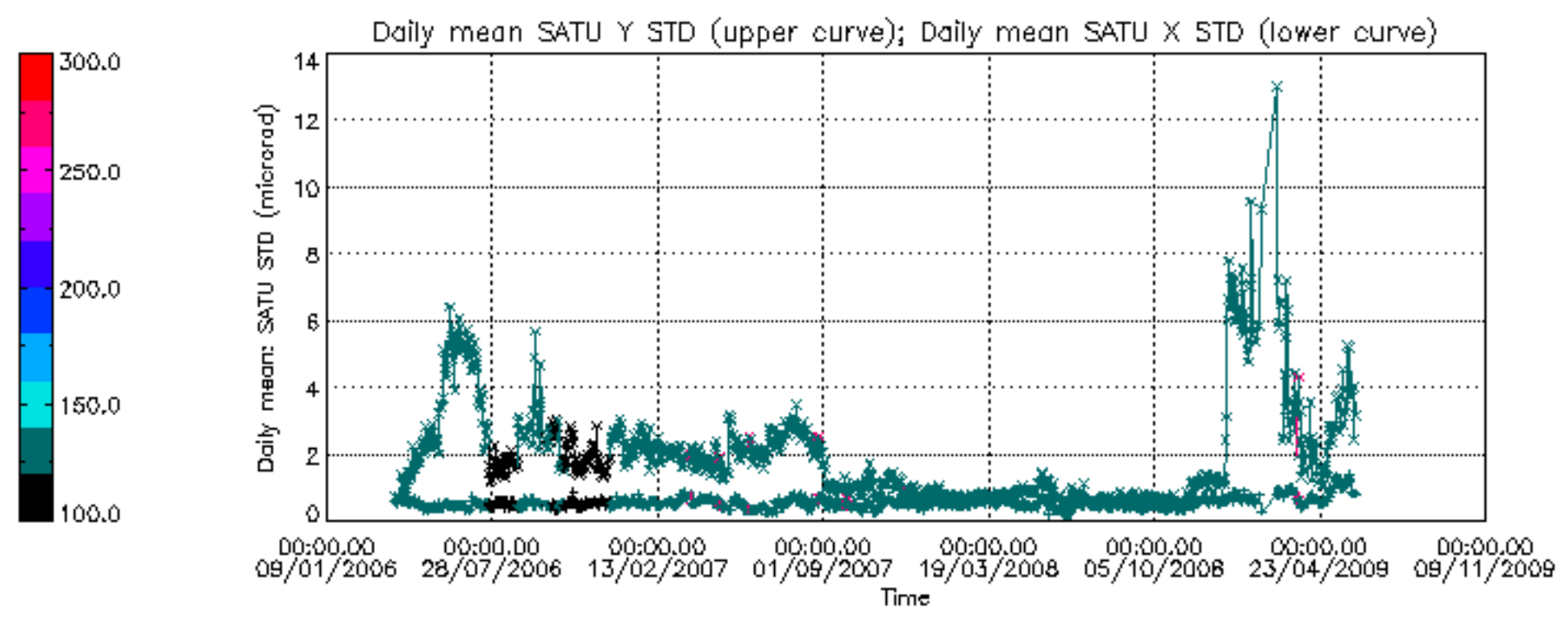


Tangent altitude at which the star is lost









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2; 190.7; 01-JUN-2009 00:55:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37918
3; 1105.6; 01-JUN-2009 01:10:22; Dark ; 35.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 71; 0;37918
4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
5; 1591.4; 01-JUN-2009 01:18:28; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37918
6; 1702.8; 01-JUN-2009 01:20:19; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37918
7; 2322.3; 01-JUN-2009 01:30:39; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37918
8; 2528.2; 01-JUN-2009 01:34:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37918
9; 2976.6; 01-JUN-2009 01:41:33; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37918
10; 3628.3; 01-JUN-2009 01:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37918
11; 3933.5; 01-JUN-2009 01:57:30; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37918
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4; 1106.4; 01-JUN-2009 02:50:59; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37919
5; 1208.2; 01-JUN-2009 02:52:40; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37919
6; 1591.1; 01-JUN-2009 02:59:03; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37919
7; 1702.6; 01-JUN-2009 03:00:55; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37919
8; 2322.2; 01-JUN-2009 03:11:14; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37919
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9; 1208.7; 01-JUN-2009 04:33:17; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37920
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13; 2526.5; 01-JUN-2009 06:35:51; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37921
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3; 1592.2; 01-JUN-2009 19:45:04; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37929
4; 2318.4; 01-JUN-2009 19:57:10; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37929
5; 2522.8; 01-JUN-2009 20:00:35; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37929
6; 2969.6; 01-JUN-2009 20:08:01; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37929
7; 3621.8; 01-JUN-2009 20:18:54; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37929
8; 3931.2; 01-JUN-2009 20:24:03; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37929
9; 4558.5; 01-JUN-2009 20:34:30; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37929
10; 4859.1; 01-JUN-2009 20:39:31; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37929

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 6; 1592.2; 01-JUN-2009 21:25:40; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37930
 7; 2318.2; 01-JUN-2009 21:37:46; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37930
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 10; 3621.1; 01-JUN-2009 21:59:29; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37930
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 3; 1113.3; 01-JUN-2009 22:58:17; Dark ; 34.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 69; 0;37931
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 11; 4558.9; 01-JUN-2009 23:55:42; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37931
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 9; 1209.8; 01-JUN-2009 07:54:30; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37922
 10; 1591.4; 01-JUN-2009 08:00:52; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37922
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4; 1158.6; 08-JUN-2009 02:31:44; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38019
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6; 3558.4; 08-JUN-2009 21:38:19; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38030
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8; 2197.6; 08-JUN-2009 22:56:14; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;38031
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9; 2911.5; 09-JUN-2009 00:48:44; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38032
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5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
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9; 6234.5; 10-JUN-2009 09:35:30; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38051
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11; 7209.7; 10-JUN-2009 09:51:45; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38051
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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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4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
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6; 3540.6; 10-JUN-2009 18:54:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38057
7; 3900.7; 10-JUN-2009 19:00:12; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38057
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9; 5381.9; 10-JUN-2009 19:24:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38057
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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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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
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6; 437.5; 12-JUN-2009 00:13:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38075
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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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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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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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38077
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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
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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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8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 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
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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
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
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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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 4; 233.5; 12-JUN-2009 23:38:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38089
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11; 2884.5; 13-JUN-2009 00:22:25; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 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; 2880.3; 13-JUN-2009 17:08:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38099
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
4; 2014.9; 13-JUN-2009 18:34:31; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;38100
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 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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 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139
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 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 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
 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
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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

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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
10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140
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
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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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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
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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
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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
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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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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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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
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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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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
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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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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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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
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3; 1439.7; 17-JUN-2009 21:20:16; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38159
4; 2001.1; 17-JUN-2009 21:29:37; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38159
5; 2150.0; 17-JUN-2009 21:32:06; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38159
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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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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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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
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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
 10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175
 5; 571.0; 18-JUN-2009 23:55:22; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38175
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 7; 1340.0; 19-JUN-2009 00:08:11; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38175
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 7; 307.9; 18-JUN-2009 07:04:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38165
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 5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165
 6; 3865.7; 18-JUN-2009 08:04:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38165
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 15; 7287.8; 18-JUN-2009 09:01:19; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38165
 16; 7373.2; 18-JUN-2009 09:02:45; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38165
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4; 2879.8; 18-JUN-2009 09:28:27; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38166
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5; 3467.1; 18-JUN-2009 11:18:50; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38167
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 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
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 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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14; 1447.7; 20-JUN-2009 04:40:09; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38192
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16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
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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
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 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
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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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 4; 344.2; 20-JUN-2009 21:07:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38202
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 6; 605.8; 20-JUN-2009 21:12:07; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38202
 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
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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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 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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 13; 2842.0; 20-JUN-2009 23:29:59; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38203
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 17; 4415.4; 20-JUN-2009 23:56:12; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38203
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 5;-1400.0; 20-JUN-2009 07:13:53; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38193
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 8; -46.5; 20-JUN-2009 07:36:27; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38193
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 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
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 3; 2746.9; 20-JUN-2009 08:23:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38194
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 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
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 16; 6632.6; 20-JUN-2009 09:27:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
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 18; 7351.4; 20-JUN-2009 09:39:45; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
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 6; 2835.0; 22-JUN-2009 17:24:50; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38228
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 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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 3; 1401.5; 22-JUN-2009 18:41:32; Bright; 29.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 58; 0;38229
 4; 1632.3; 22-JUN-2009 18:45:23; Bright; 19.5; 86; 35Eta Oph ; 2.43; 10200;occ; 39; 0;38229
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4; 1628.4; 23-JUN-2009 19:54:18; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38244
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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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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
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