

GOMOS Daily Report 01-MAY-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	08MAY2009 04:56:25
Data source version	GOMOS/5.00
Start time of products	01MAY2009 00:00:35
Stop time of products	01MAY2009 05:02:23
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)

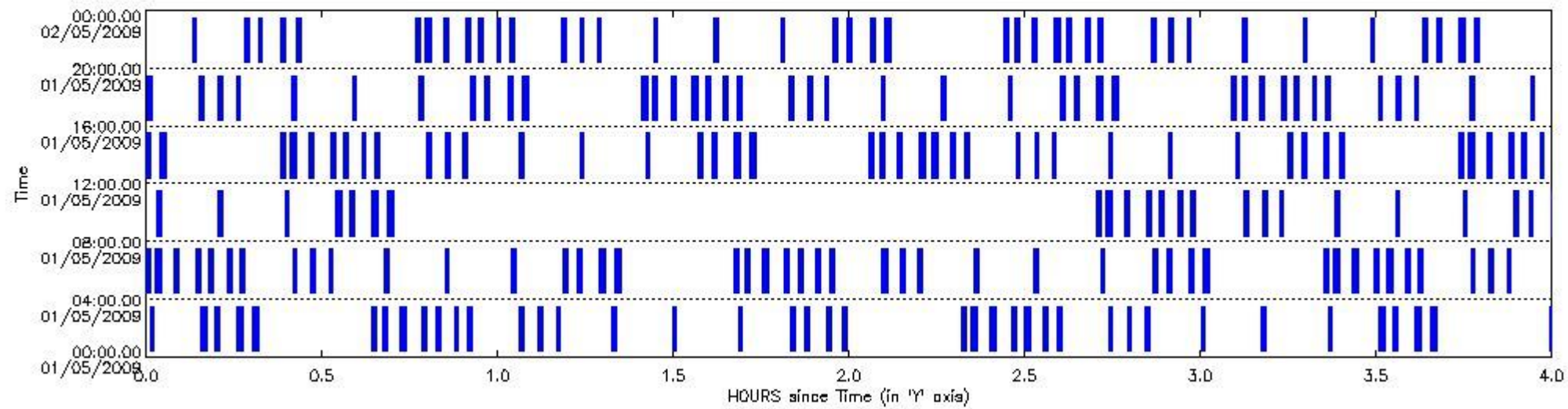
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

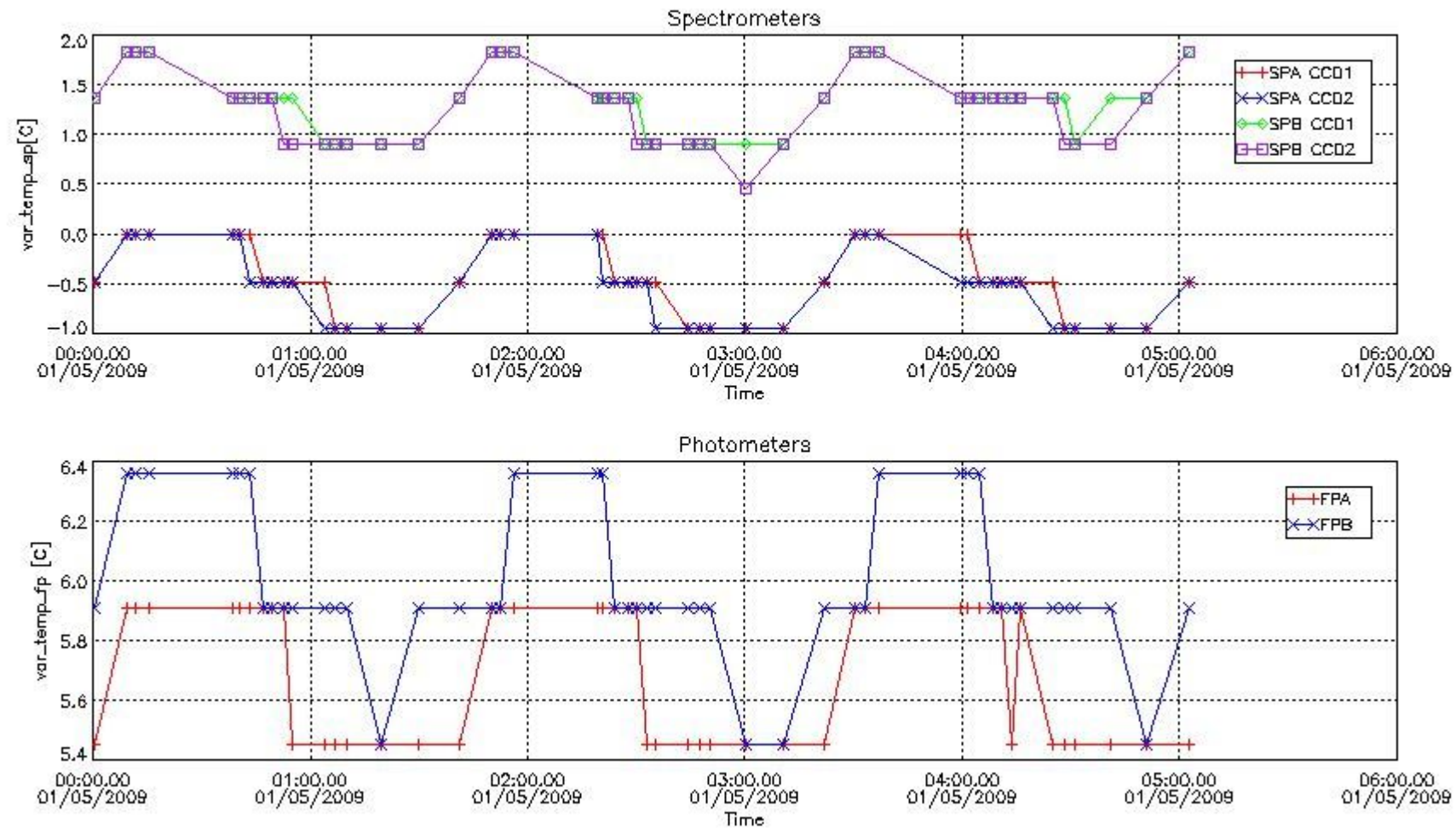
No missing products.

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_1PNPDE20090501_000035_000000352078_00345_37473_5980.N1	01-MAY-2009 00:00:35	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	37473	No
2	GOM_TRA_1PNPDE20090501_000919_000000542078_00345_37473_5981.N1	01-MAY-2009 00:09:19	Dark	53.500	61	8Eps Peg	2.1000	3900.0	107	37473	No
3	GOM_TRA_1PNPDE20090501_001145_000000482078_00345_37473_5982.N1	01-MAY-2009 00:11:45	Dark	47.500	162	34Alp Aqr	2.9440	5350.0	95	37473	No
4	GOM_TRA_1PNPDE20090501_001529_000000612078_00345_37473_6124.N1	01-MAY-2009 00:15:29	Dark	60.500	154	22Bet Aqr	2.8990	5700.0	121	37473	No
5	GOM_TRA_1PNPDE20090501_003831_000000522078_00346_37474_6125.N1	01-MAY-2009 00:38:31	Straylight	52.000	40	The Sco	1.8590	7100.0	104	37474	No
6	GOM_TRA_1PNPDE20090501_004016_000000612078_00346_37474_6126.N1	01-MAY-2009 00:40:16	Straylight	60.500	25	35Lam Sco	1.6200	28000.	121	37474	No
7	GOM_TRA_1PNPDE20090501_004323_000000592078_00346_37474_6127.N1	01-MAY-2009 00:43:23	Straylight	59.000	75	26Eps Sco	2.2910	4250.0	118	37474	No
8	GOM_TRA_1PNPDE20090501_004708_000000462078_00346_37474_6128.N1	01-MAY-2009 00:47:08	Twilight_stray	46.000	16	21Alp Sco	1.0200	3000.0	92	37474	No
9	GOM_TRA_1PNPDE20090501_004923_000000582078_00346_37474_6129.N1	01-MAY-2009 00:49:23	Twilight_stray	58.000	80	7Del Sco	2.3160	30000.	116	37474	No
10	GOM_TRA_1PNPDE20090501_005233_000000422078_00346_37474_6130.N1	01-MAY-2009 00:52:33	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	37474	No
11	GOM_TRA_1PNPDE20090501_005450_000000482078_00346_37474_6131.N1	01-MAY-2009 00:54:50	Bright	48.000	104	27Bet Lib	2.6140	13100.	96	37474	No
12	GOM_TRA_1PNPDE20090501_010346_000000452078_00346_37474_6132.N1	01-MAY-2009 01:03:46	Bright	45.000	3	16Alp Boo	-0.050000	4250.0	90	37474	No

13	GOM_TRA_1PNPDE20090501_010657_000000442078_00346_37474_6133.N1	01-MAY-2009 01:06:57	Bright	43.500	83		2.3780	11000.	87	37474	No
14	GOM_TRA_1PNPDE20090501_010958_000000402078_00346_37474_6134.N1	01-MAY-2009 01:09:58	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	37474	No
15	GOM_TRA_1PNPDE20090501_011932_000000422078_00346_37474_6135.N1	01-MAY-2009 01:19:32	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	37474	No
16	GOM_TRA_1PNPDE20090501_012950_000000402078_00346_37474_6136.N1	01-MAY-2009 01:29:50	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	37474	No
17	GOM_TRA_1PNPDE20090501_014111_000000372078_00346_37474_6137.N1	01-MAY-2009 01:41:11	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	37474	No
18	GOM_TRA_1PNPDE20090501_014956_000000522078_00346_37474_6138.N1	01-MAY-2009 01:49:56	Dark	52.000	61	8Eps Peg	2.1000	3900.0	104	37474	No
19	GOM_TRA_1PNPDE20090501_015222_000000472078_00346_37474_6268.N1	01-MAY-2009 01:52:22	Dark	46.500	162	34Alp Aqr	2.9440	5350.0	93	37474	No
20	GOM_TRA_1PNPDE20090501_015606_000000592078_00346_37474_6269.N1	01-MAY-2009 01:56:06	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	37474	No
21	GOM_TRA_1PNPDE20090501_021908_000000592078_00347_37475_6270.N1	01-MAY-2009 02:19:08	Straylight	58.500	40	The Sco	1.8590	7100.0	117	37475	No
22	GOM_TRA_1PNPDE20090501_022053_000000572078_00347_37475_6271.N1	01-MAY-2009 02:20:53	Straylight	57.000	25	35Lam Sco	1.6200	28000.	114	37475	No
23	GOM_TRA_1PNPDE20090501_022400_000000592078_00347_37475_6272.N1	01-MAY-2009 02:24:00	Straylight	59.000	75	26Eps Sco	2.2910	4250.0	118	37475	No
24	GOM_TRA_1PNPDE20090501_022745_000000462078_00347_37475_6273.N1	01-MAY-2009 02:27:45	Tw_i_and_stray	46.000	16	21Alp Sco	1.0200	3000.0	92	37475	No
25	GOM_TRA_1PNPDE20090501_022959_000000572078_00347_37475_6274.N1	01-MAY-2009 02:29:59	Tw_i_and_stray	56.500	80	7Del Sco	2.3160	30000.	113	37475	No
26	GOM_TRA_1PNPDE20090501_023309_000000422078_00347_37475_6275.N1	01-MAY-2009 02:33:09	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	37475	No
27	GOM_TRA_1PNPDE20090501_023526_000000502078_00347_37475_6276.N1	01-MAY-2009 02:35:26	Bright	50.000	104	27Bet Lib	2.6140	13100.	100	37475	No
28	GOM_TRA_1PNPDE20090501_024422_000000402078_00347_37475_6277.N1	01-MAY-2009 02:44:22	Bright	39.500	3	16Alp Boo	-0.050000	4250.0	79	37475	No
29	GOM_TRA_1PNPDE20090501_024733_000000432078_00347_37475_6278.N1	01-MAY-2009 02:47:33	Bright	42.500	83		2.3780	11000.	85	37475	No
30	GOM_TRA_1PNPDE20090501_025033_000000422078_00347_37475_6279.N1	01-MAY-2009 02:50:33	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	37475	No
31	GOM_TRA_1PNPDE20090501_030007_000000442078_00347_37475_6280.N1	01-MAY-2009 03:00:07	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	37475	No
32	GOM_TRA_1PNPDE20090501_031026_000000522078_00347_37475_6281.N1	01-MAY-2009 03:10:26	Bright	51.500	89	5Alp Cep	2.4510	8000.0	103	37475	No
33	GOM_TRA_1PNPDE20090501_032147_000000372078_00347_37475_6408.N1	01-MAY-2009 03:21:47	Bright	37.000	164	44Eta Peg	2.9480	5400.0	74	37475	No
34	GOM_TRA_1PNPDE20090501_033033_000000522078_00347_37475_6409.N1	01-MAY-2009 03:30:33	Dark	52.000	61	8Eps Peg	2.1000	3900.0	104	37475	No
35	GOM_TRA_1PNPDE20090501_033258_000000472078_00347_37475_6410.N1	01-MAY-2009 03:32:58	Dark	46.500	162	34Alp Aqr	2.9440	5350.0	93	37475	No
36	GOM_TRA_1PNPDE20090501_033643_000000592078_00347_37475_6411.N1	01-MAY-2009 03:36:43	Dark	58.500	154	22Bet Aqr	2.8990	5700.0	117	37475	No
37	GOM_TRA_1PNPDE20090501_035945_000000542078_00348_37476_6412.N1	01-MAY-2009 03:59:45	Straylight	53.500	40	The Sco	1.8590	7100.0	107	37476	No
38	GOM_TRA_1PNPDE20090501_040130_000000572078_00348_37476_6413.N1	01-MAY-2009 04:01:30	Straylight	57.000	25	35Lam Sco	1.6200	28000.	114	37476	No
39	GOM_TRA_1PNPDE20090501_040437_000000602078_00348_37476_6414.N1	01-MAY-2009 04:04:37	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	37476	No
40	GOM_TRA_1PNPDE20090501_040821_000000502078_00348_37476_6415.N1	01-MAY-2009 04:08:21	Tw_i_and_stray	50.000	16	21Alp Sco	1.0200	3000.0	100	37476	No
41	GOM_TRA_1PNPDE20090501_041036_000000562078_00348_37476_6416.N1	01-MAY-2009 04:10:36	Tw_i_and_stray	56.000	80	7Del Sco	2.3160	30000.	112	37476	No
42	GOM_TRA_1PNPDE20090501_041345_000000532078_00348_37476_6417.N1	01-MAY-2009 04:13:45	Bright	52.500	122	9Alp2Lib	2.7470	9700.0	105	37476	No
43	GOM_TRA_1PNPDE20090501_041602_000000462078_00348_37476_6418.N1	01-MAY-2009 04:16:02	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	37476	No
44	GOM_TRA_1PNPDE20090501_042458_000000412078_00348_37476_6419.N1	01-MAY-2009 04:24:58	Bright	40.500	3	16Alp Boo	-0.050000	4250.0	81	37476	No
45	GOM_TRA_1PNPDE20090501_042808_000000442078_00348_37476_6420.N1	01-MAY-2009 04:28:08	Bright	44.000	83		2.3780	11000.	88	37476	No
46	GOM_TRA_1PNPDE20090501_043109_000000402078_00348_37476_6421.N1	01-MAY-2009 04:31:09	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	37476	No
47	GOM_TRA_1PNPDE20090501_044043_000000482078_00348_37476_6422.N1	01-MAY-2009 04:40:43	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	37476	No
48	GOM_TRA_1PNPDE20090501_045102_000000422078_00348_37476_6621.N1	01-MAY-2009 04:51:02	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	37476	No
49	GOM_TRA_1PNPDE20090501_050223_000000382078_00348_37476_6622.N1	01-MAY-2009 05:02:23	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	37476	No

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



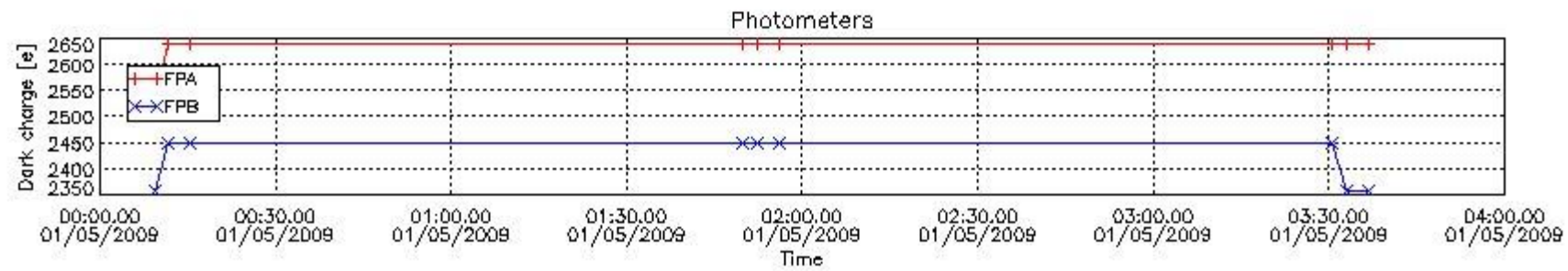
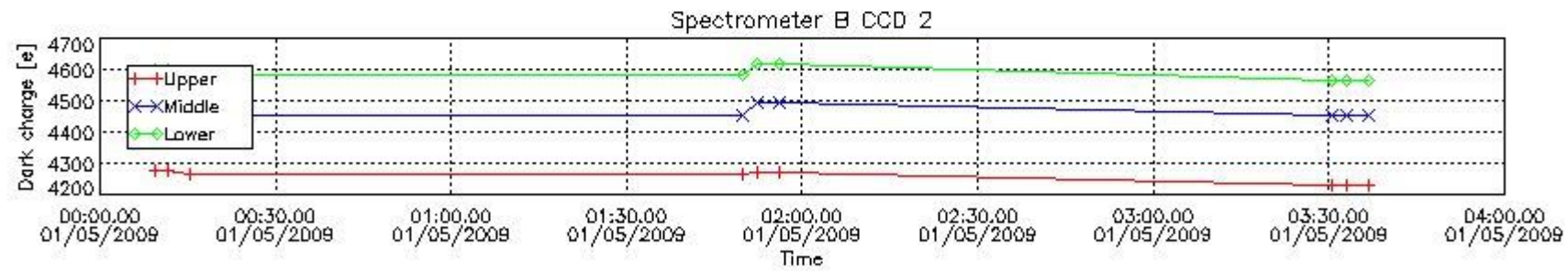
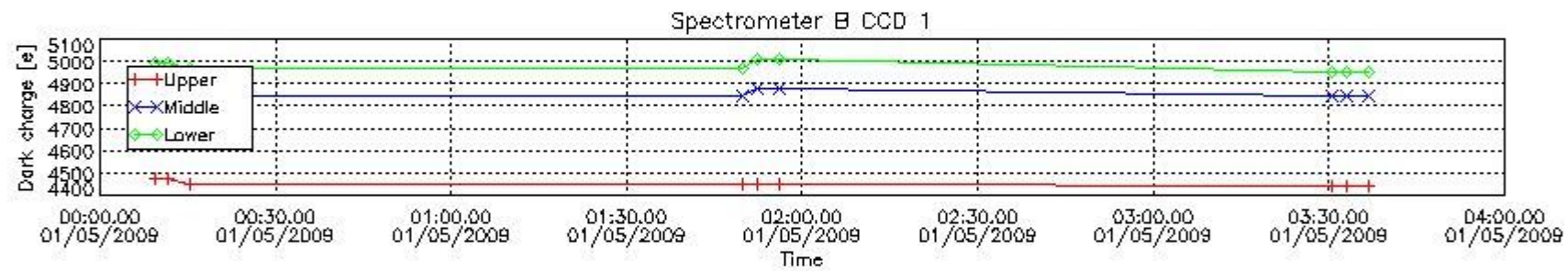
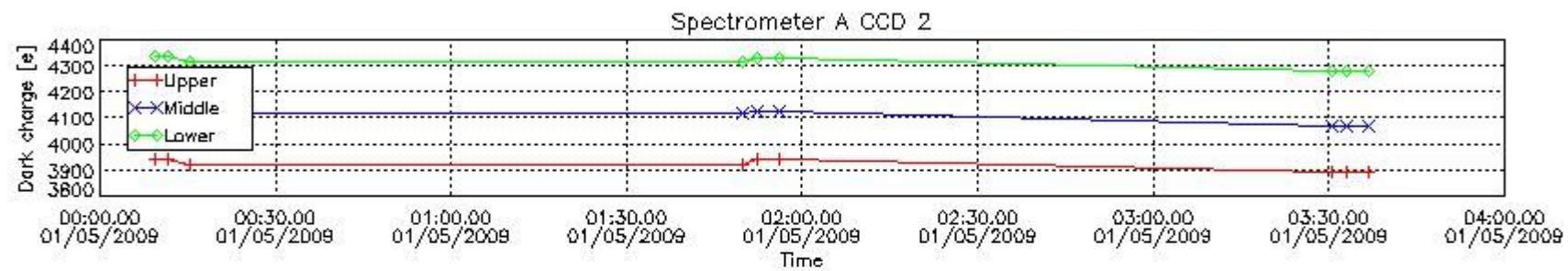
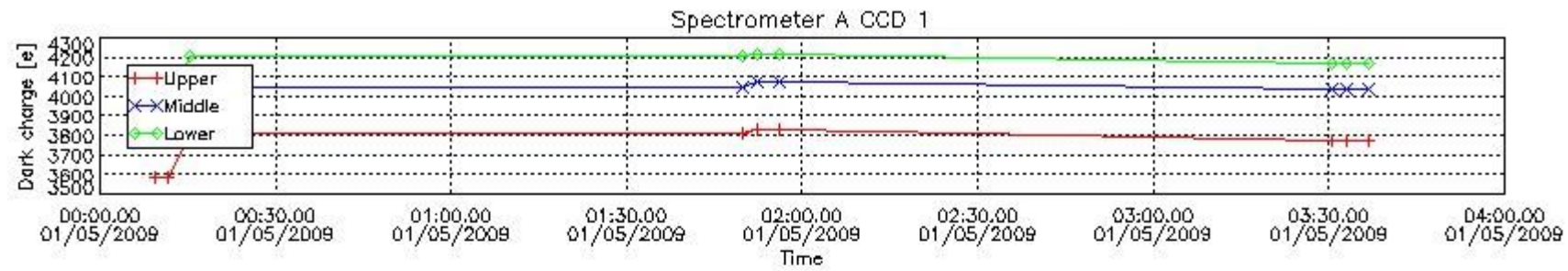
4. Overview of dark signal processing per product

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



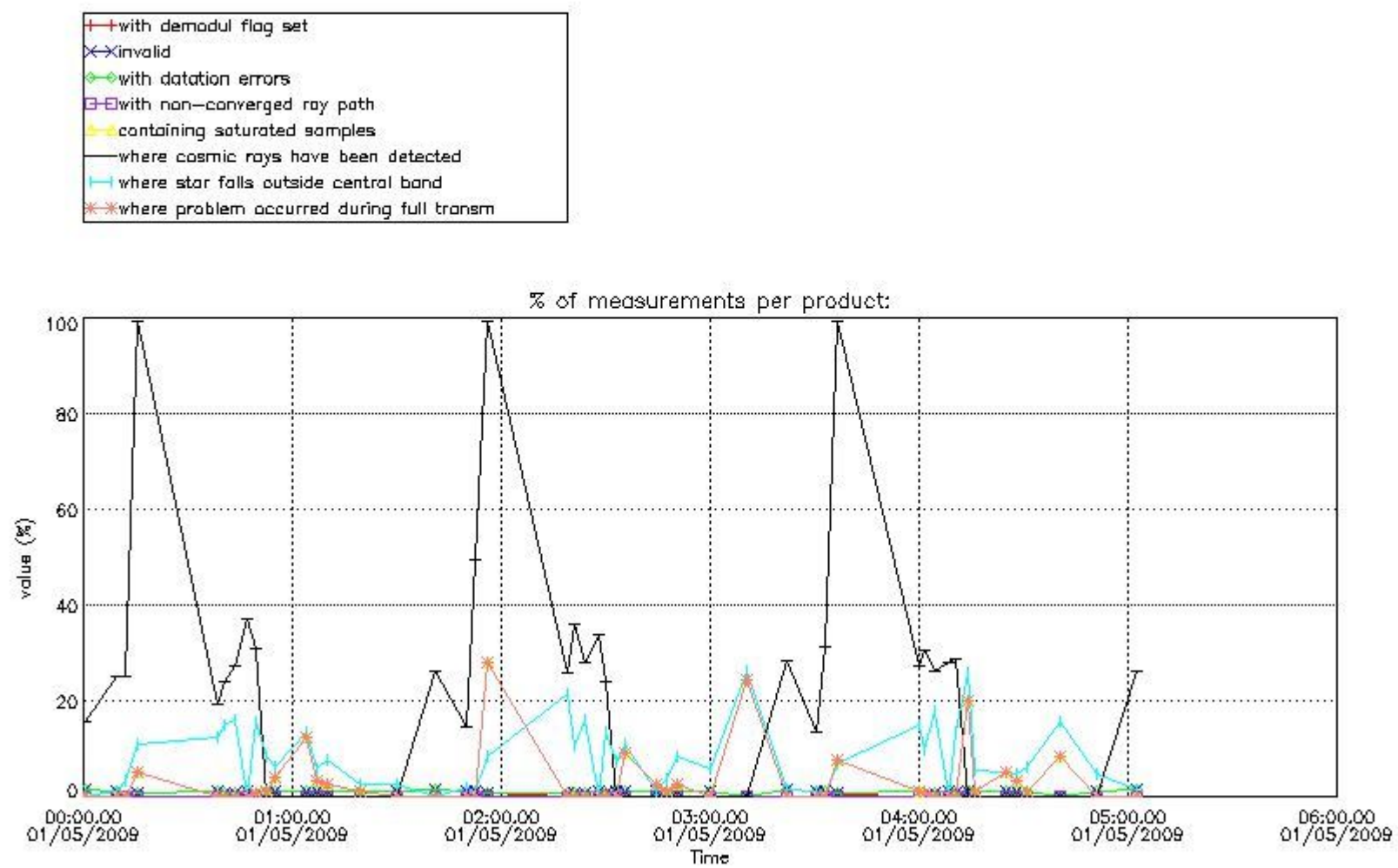
5. Demodulation flag and quality information monitoring

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.

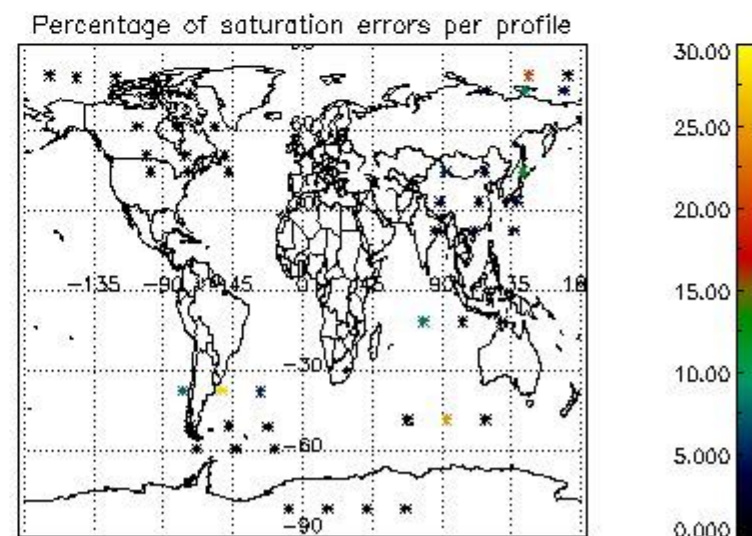
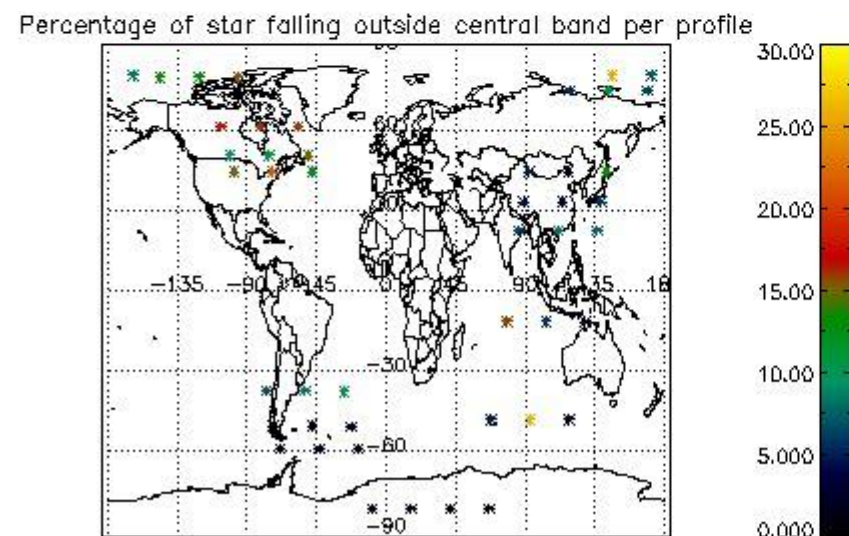
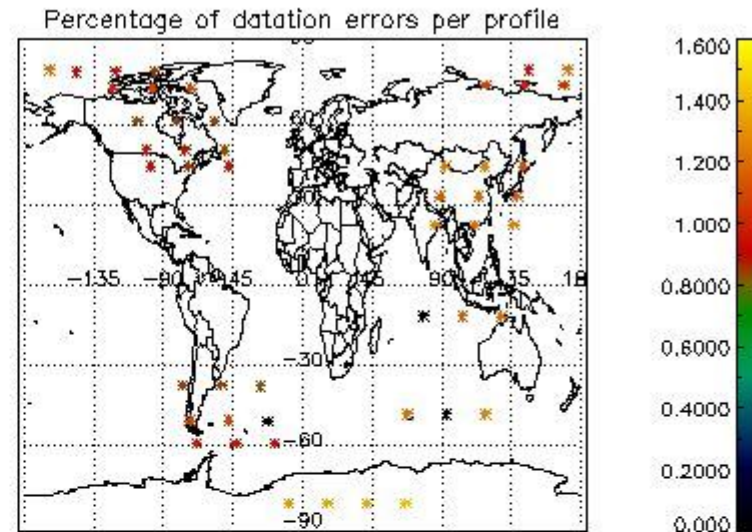
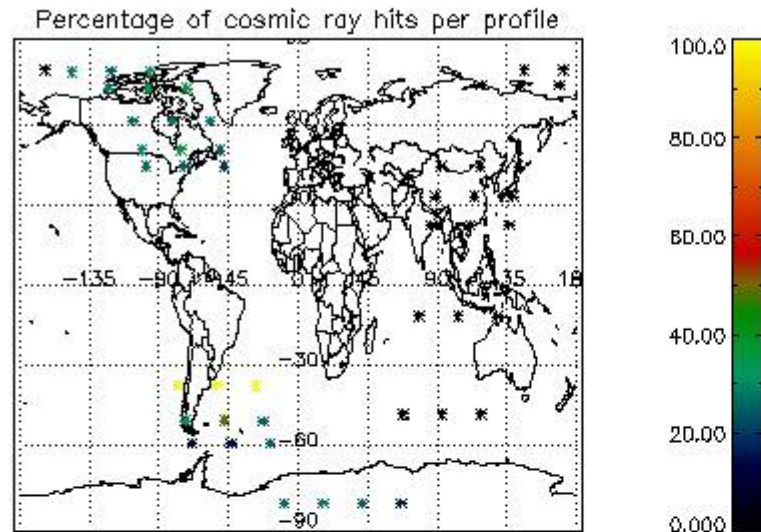
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.7755 %
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)



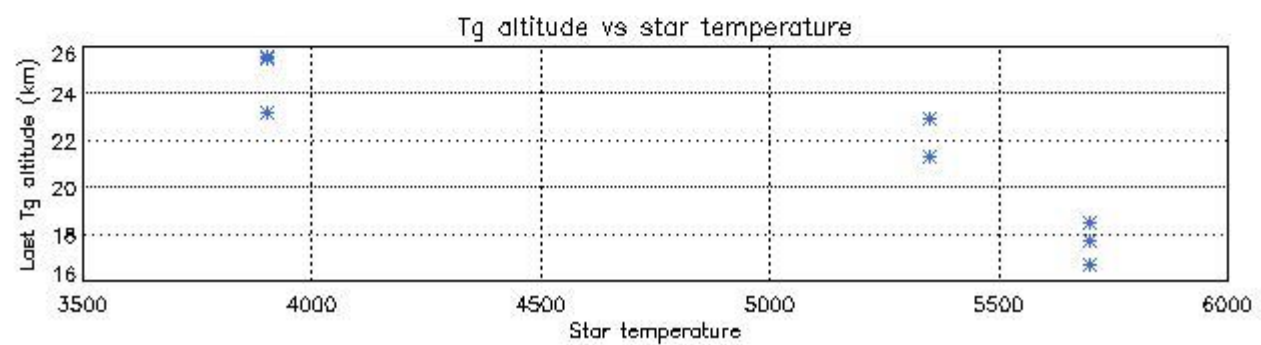
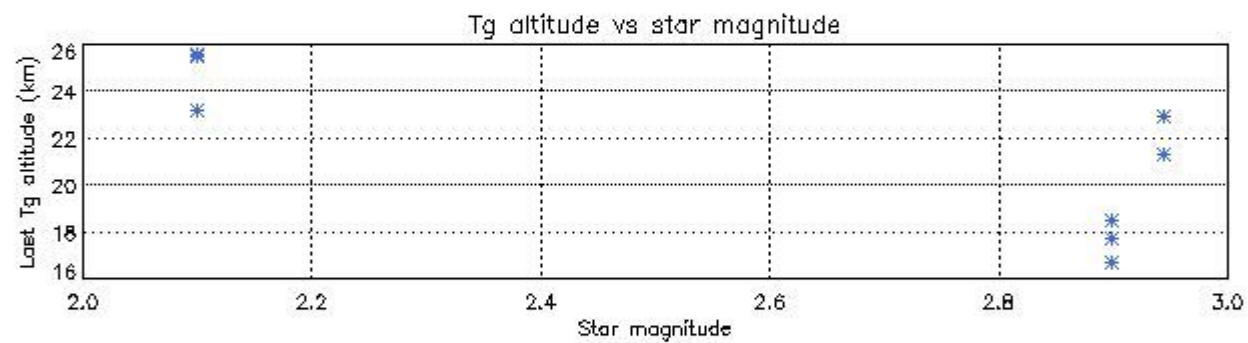
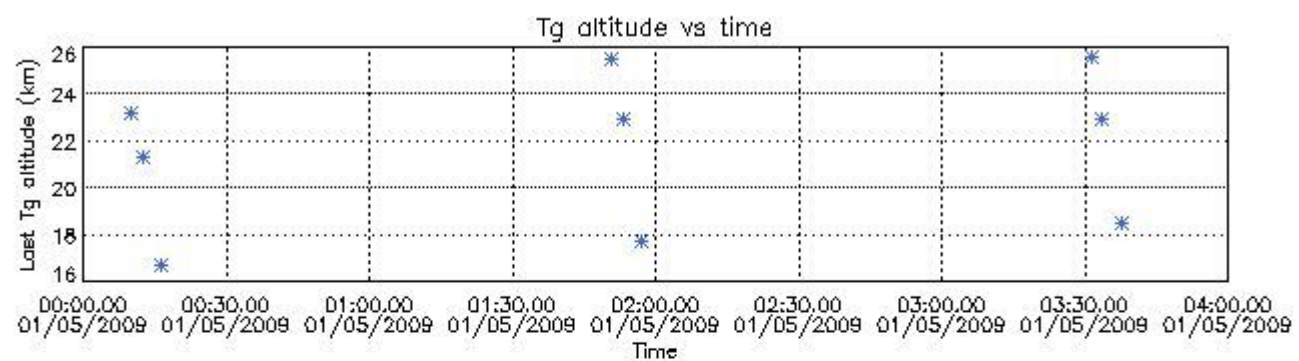
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.581	22.169	NaN
St. deviation:	3.2710	5.7960	NaN
Maximum:	25.534	35.640	NaN
Minimum:	16.657	9.5841	NaN
Number of data:	9.0000	25.000	NaN

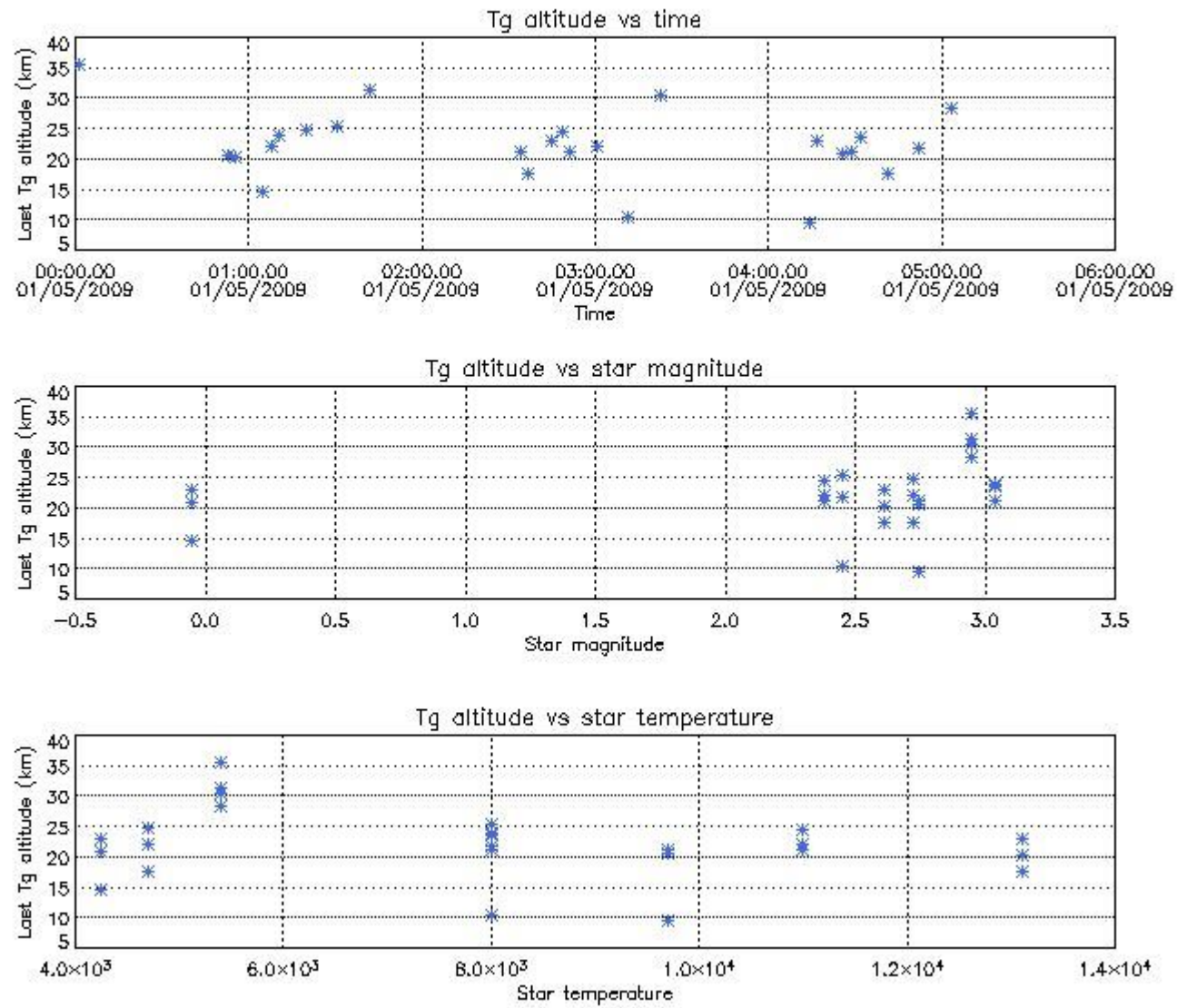
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

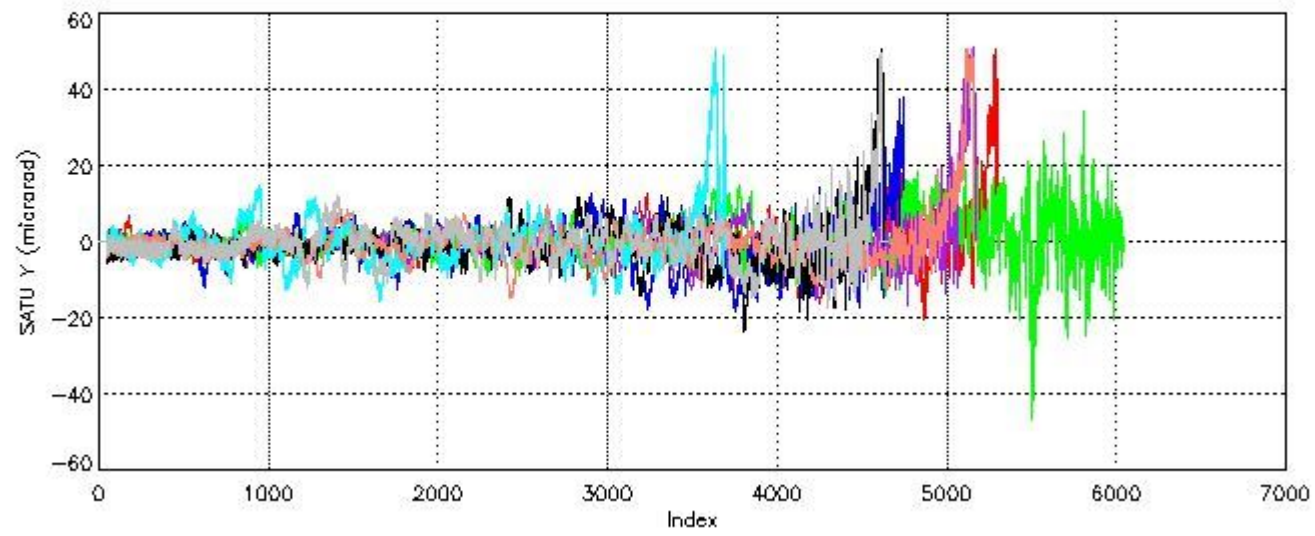
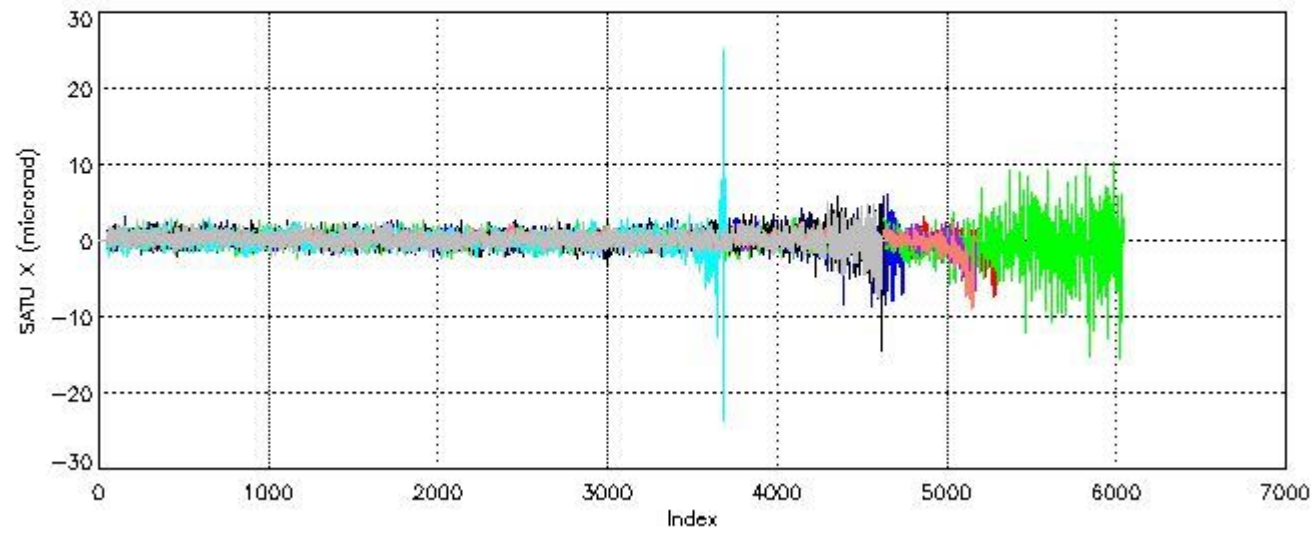


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28885	-1.0226	0.30068	-0.98845
St. deviation:	0.60596	2.0254	0.88264	2.4213
Maximum:	3.3000	7.2000	5.4000	20.800
Minimum:	-2.3000	-12.900	-5.1000	-13.000

Number of data:	11700.	11700.	24950.	24950.
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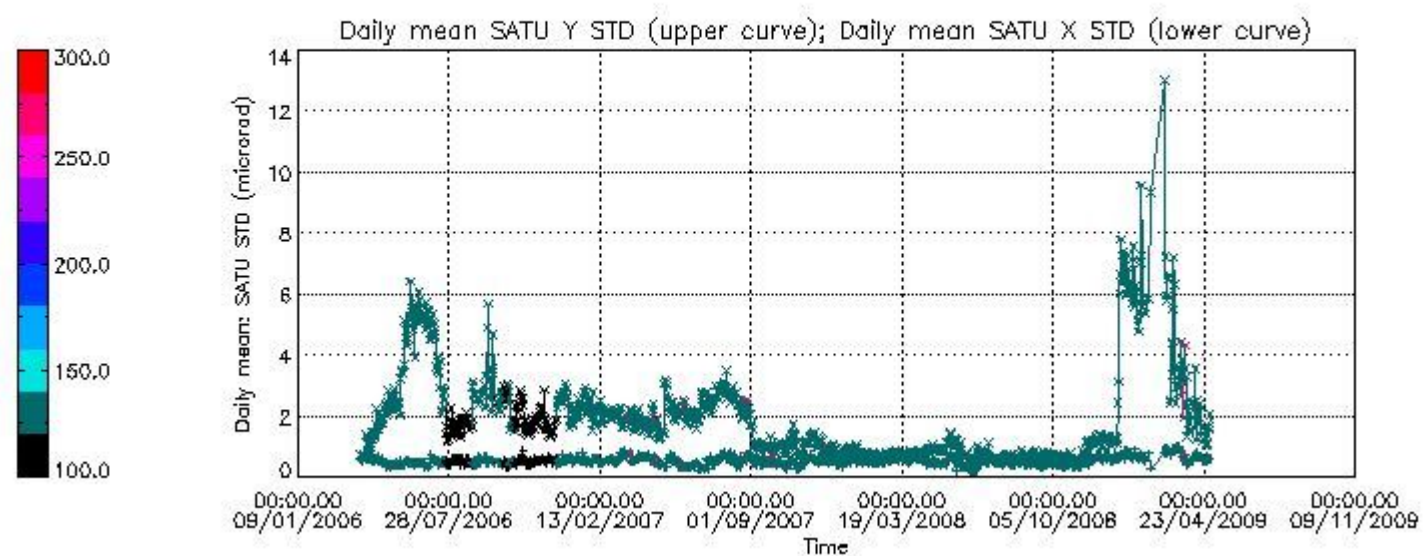
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

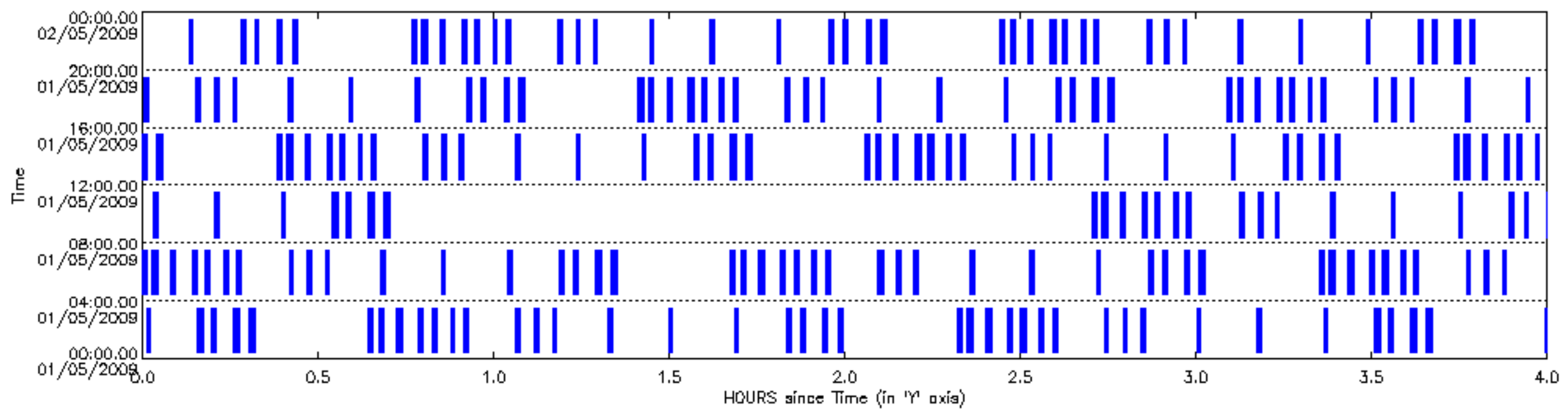
Lower curve: STD of SATU X axis

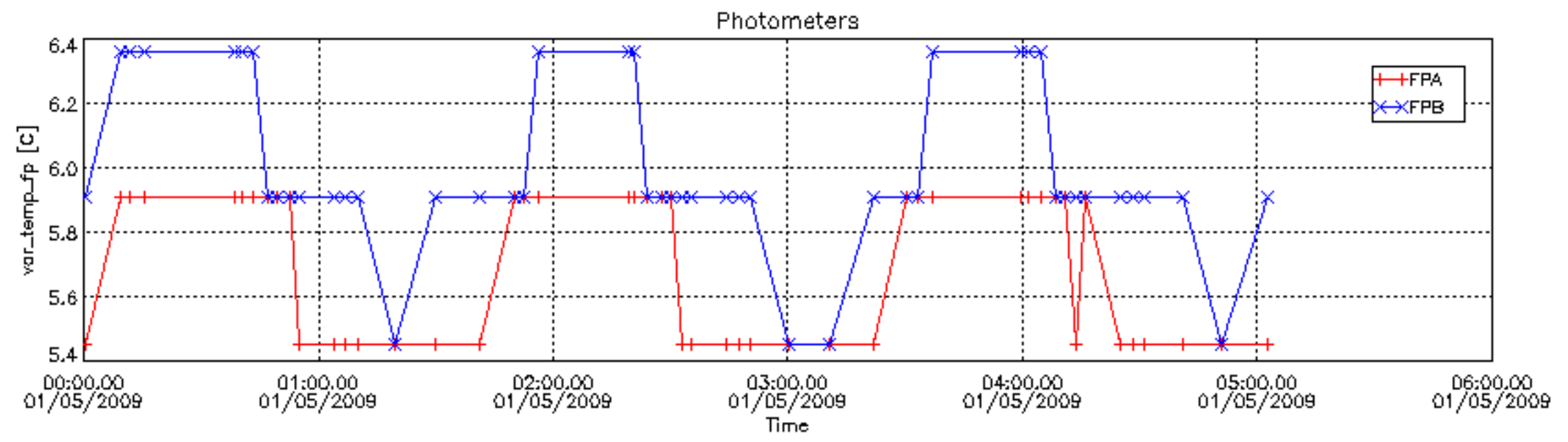
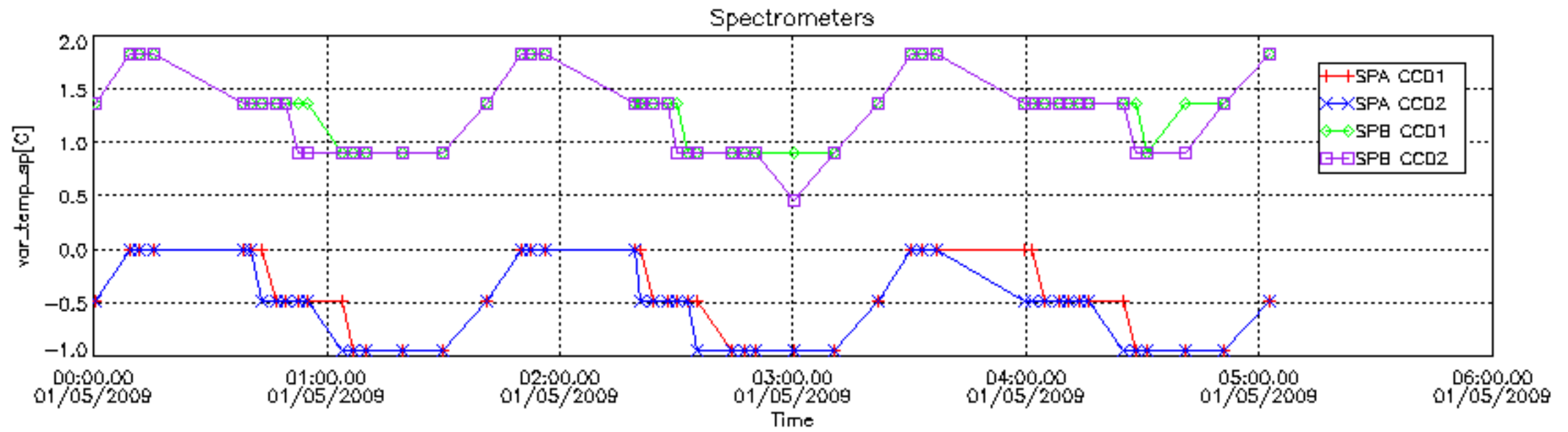


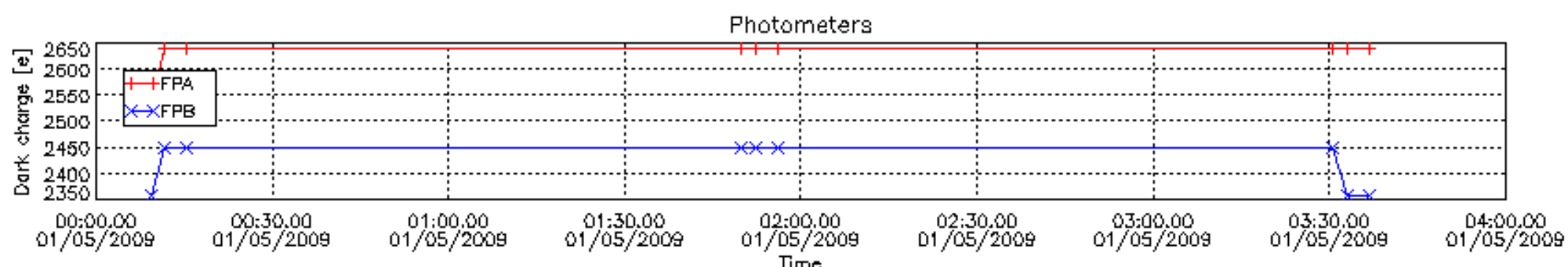
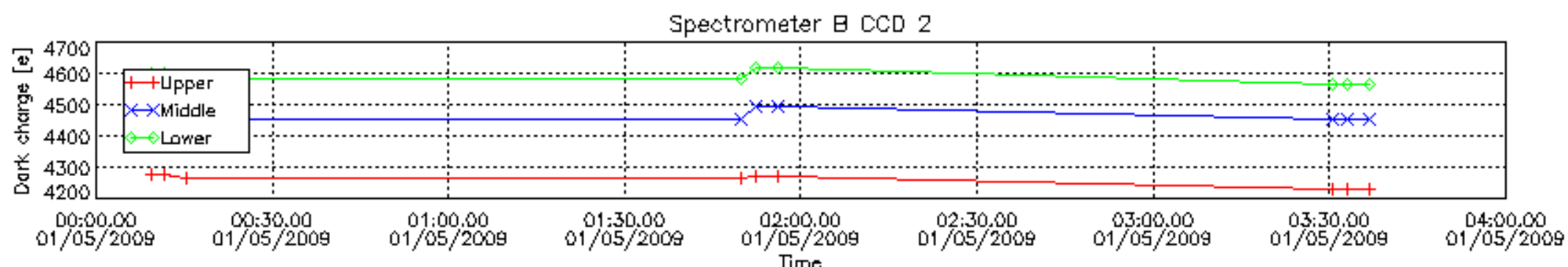
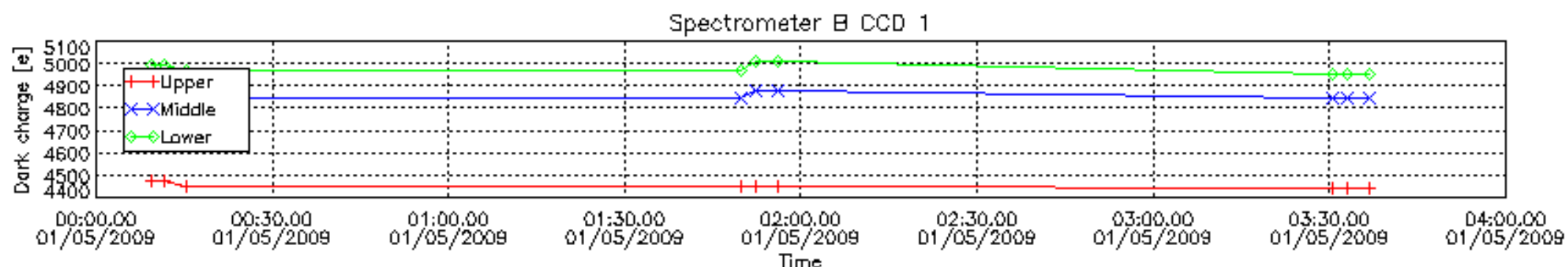
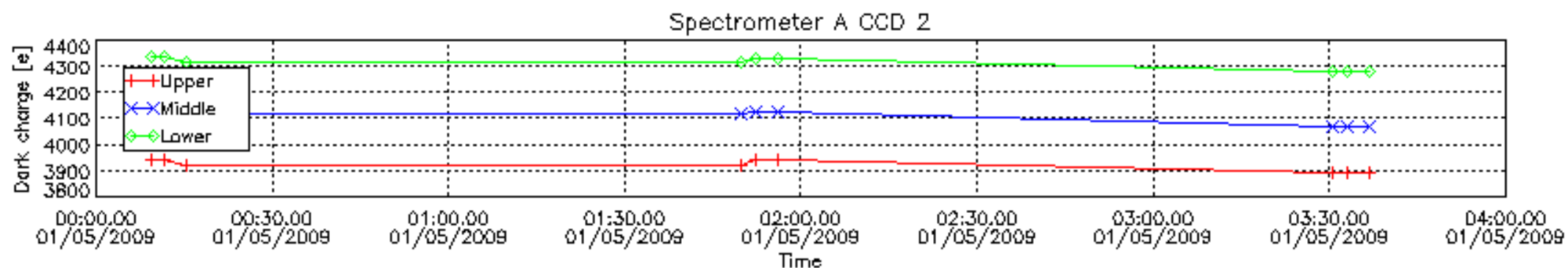
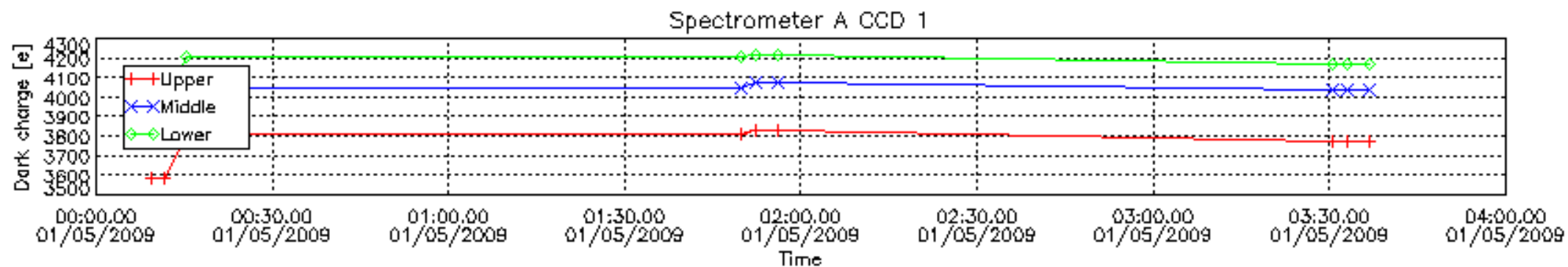
8. Auxiliary Data Files used for the production reported in section 2.4

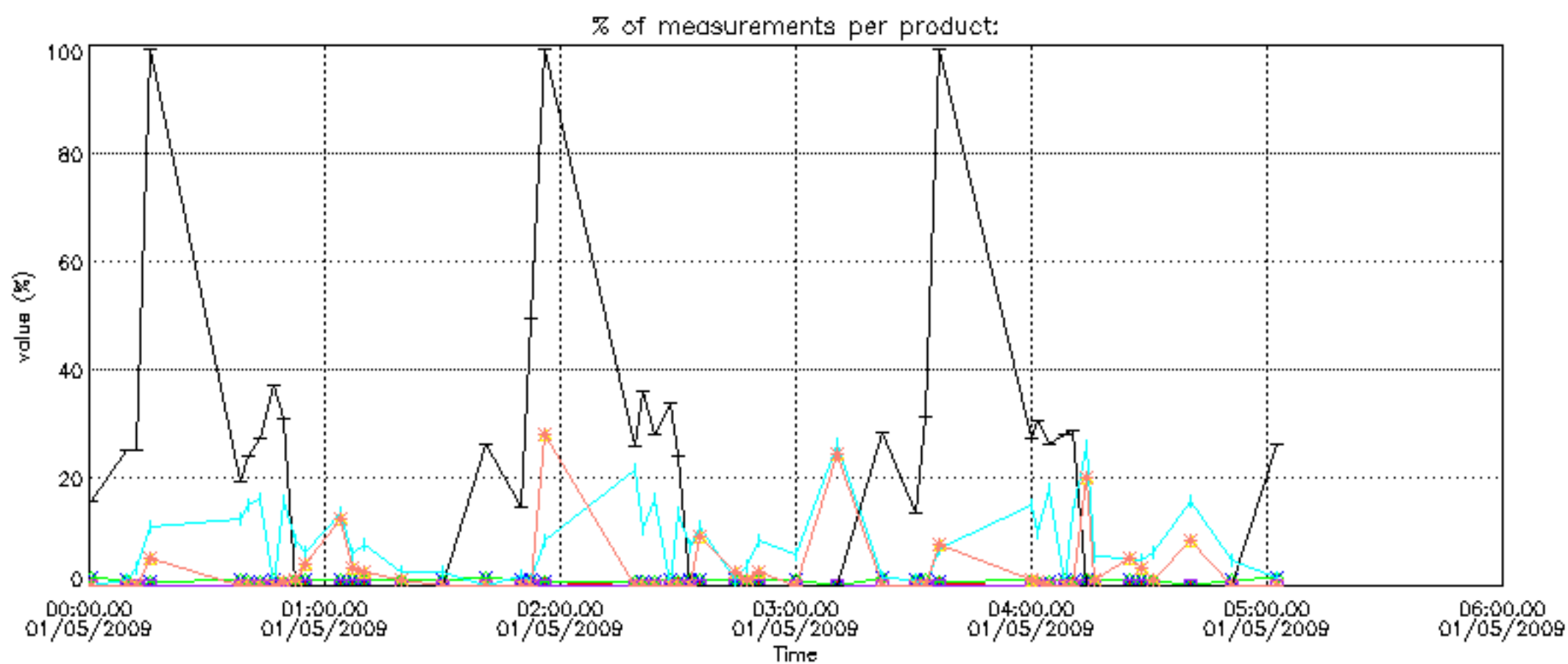
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-MAY-2009 00:00:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090430_144945_20090428_000000_20100101_000000	1	01-MAY-2009 00:00:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-MAY-2009 00:00:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-MAY-2009 00:00:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-MAY-2009 00:00:35
ECMWF_FILE	AUX_ECF_AXNECM20090430_080115_20090430_210000_20090501_090000	1	01-MAY-2009 00:00:35
ECMWF_FILE	AUX_ECF_AXNECM20090430_184112_20090501_030000_20090501_150000	33	01-MAY-2009 03:21:47
OPTIONAL_ECMWF_FILE	MISSING	1	01-MAY-2009 00:00:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090430_204622_000060572078_00343_37471_7852.N1	1	01-MAY-2009 00:00:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090501_000816_000057382078_00345_37473_7854.N1	4	01-MAY-2009 00:15:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090501_014913_000044632078_00346_37474_7855.N1	33	01-MAY-2009 03:21:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090501_030855_000054192078_00347_37475_7856.N1	48	01-MAY-2009 04:51:02

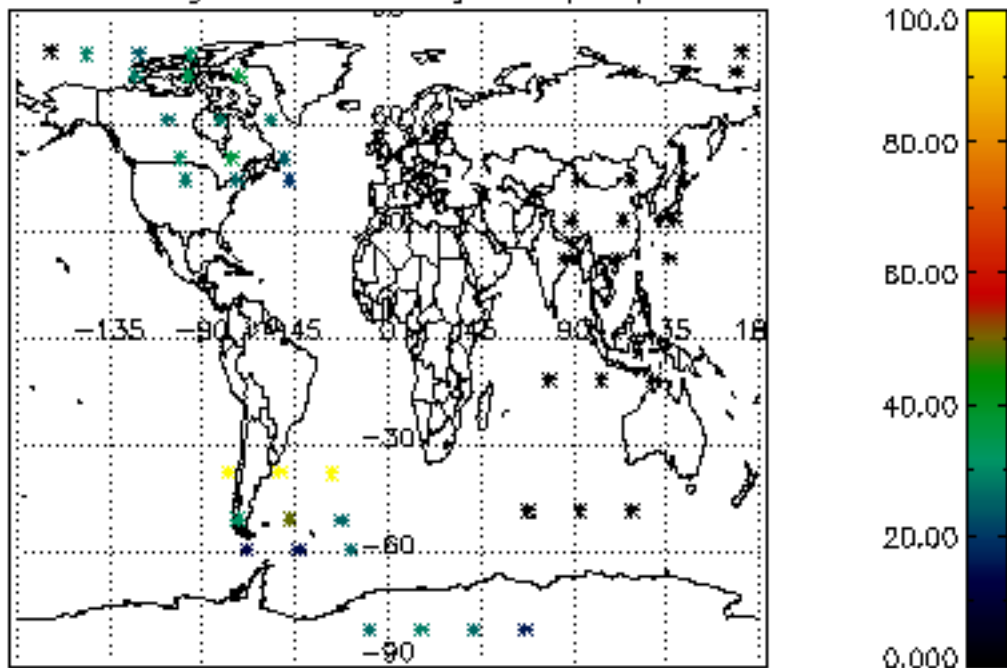




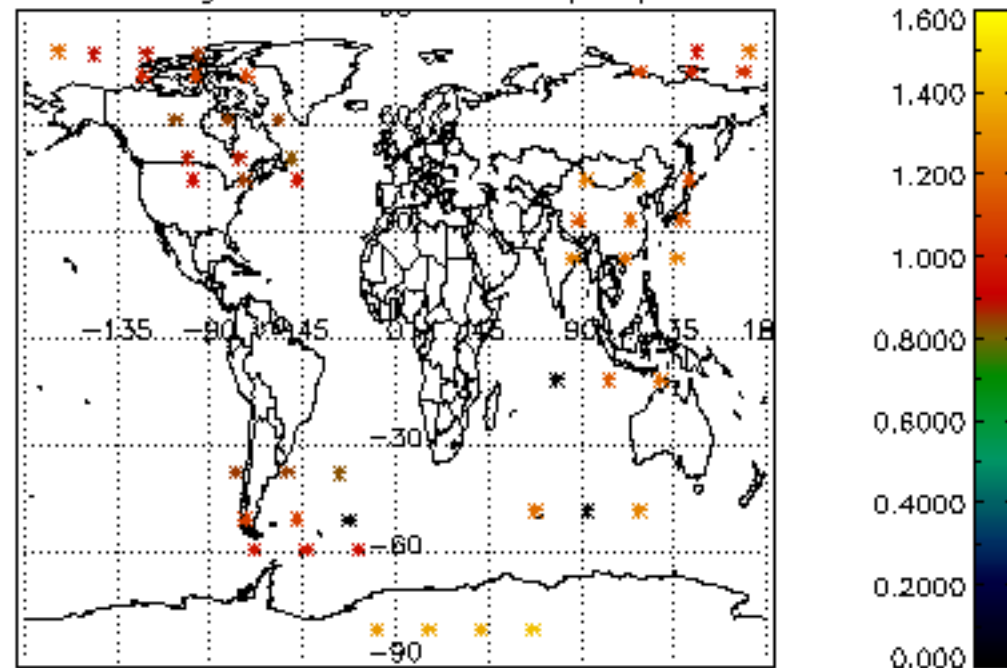




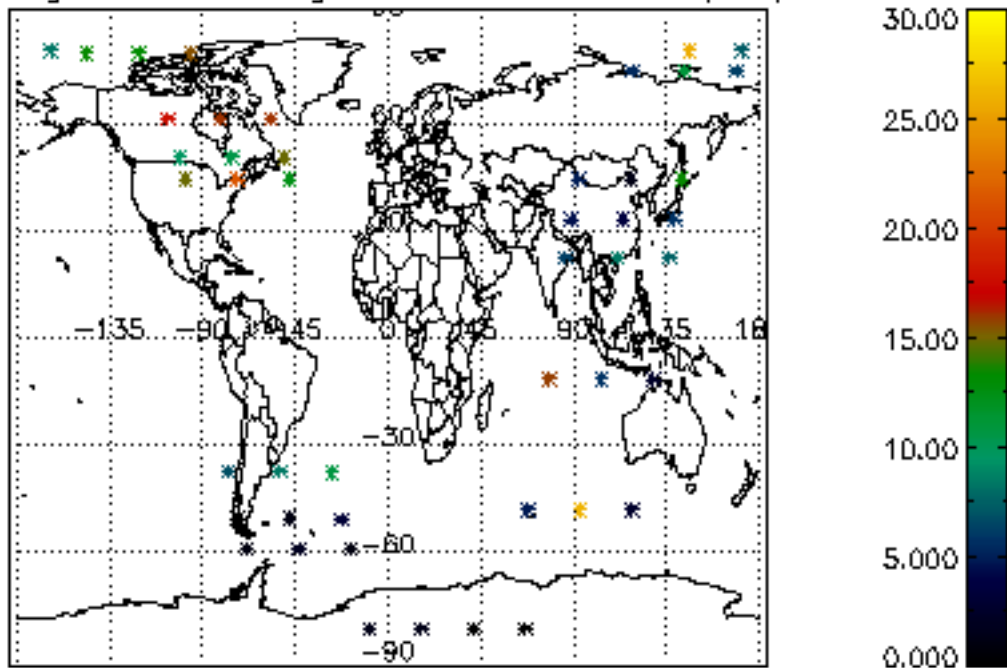
Percentage of cosmic ray hits per profile



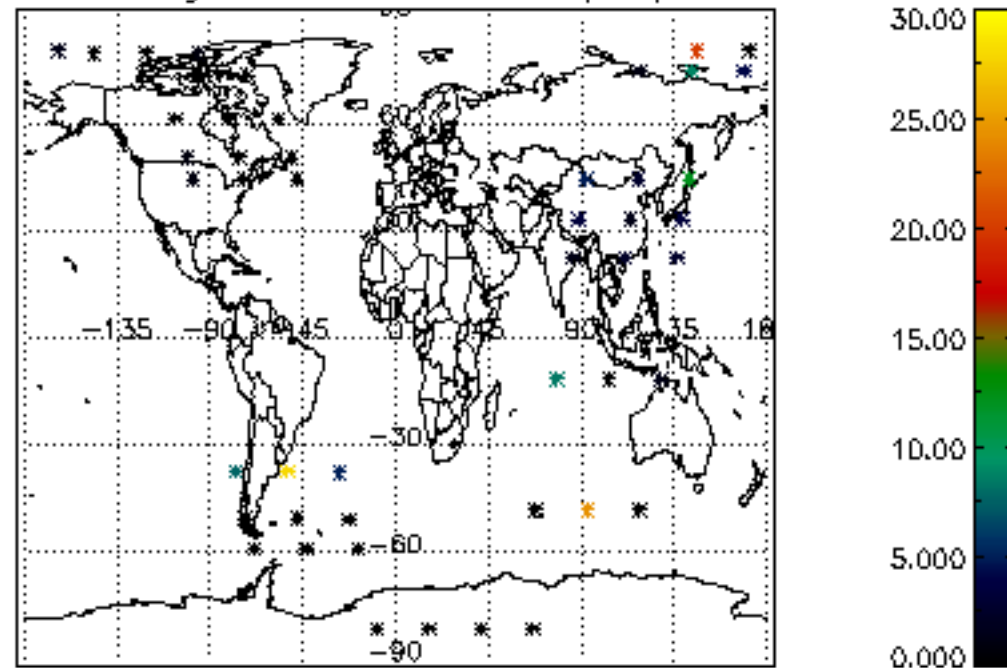
Percentage of datation errors per profile



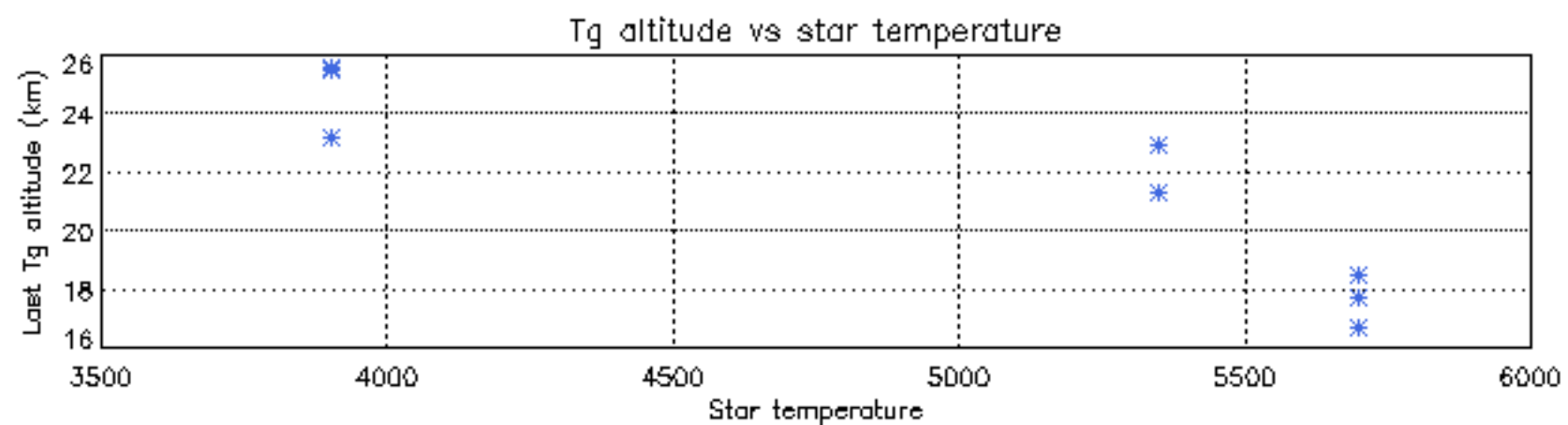
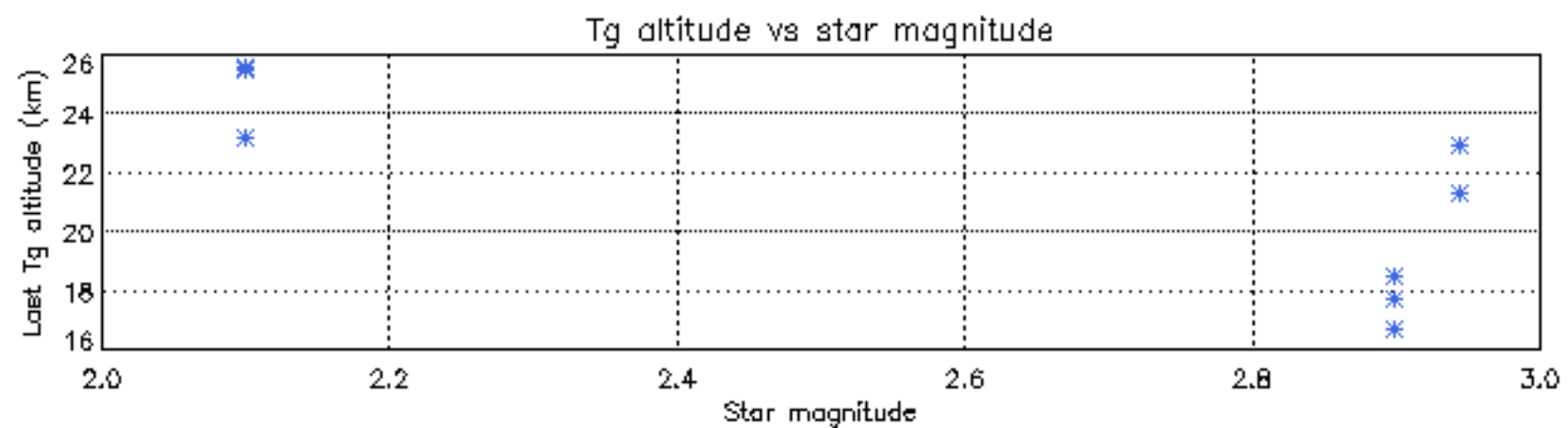
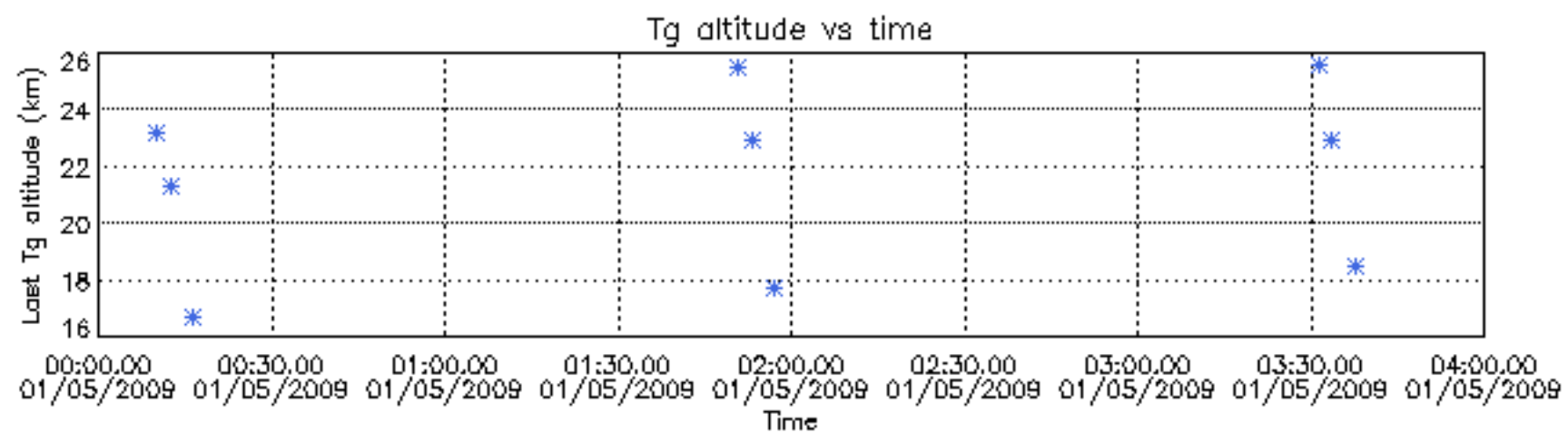
Percentage of star falling outside central band per profile

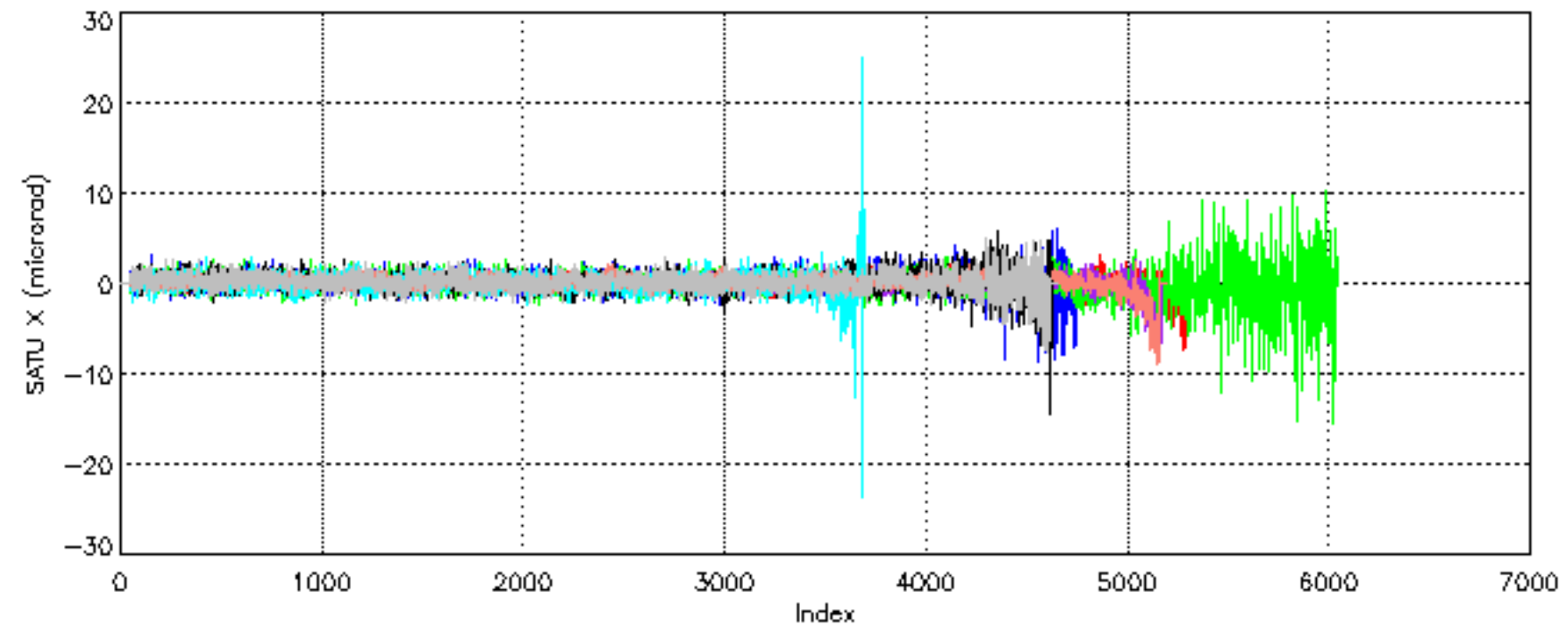


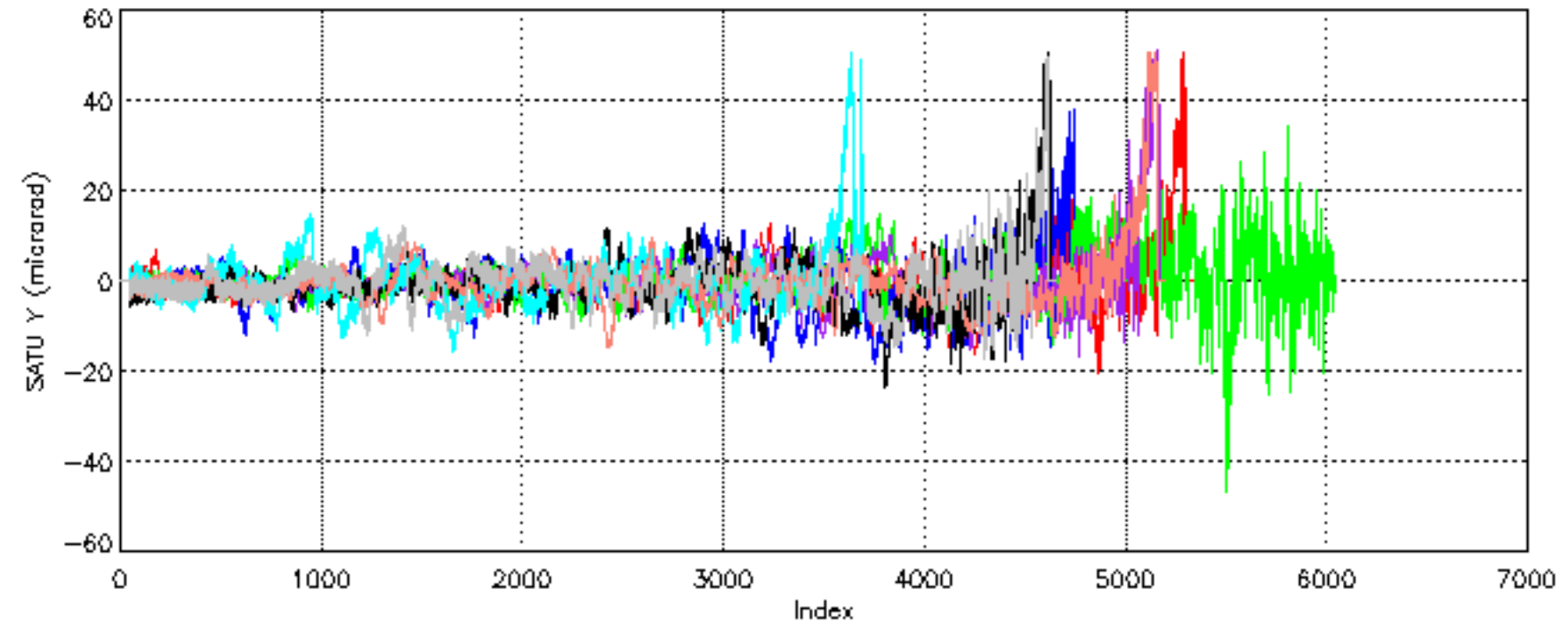
Percentage of saturation errors per profile

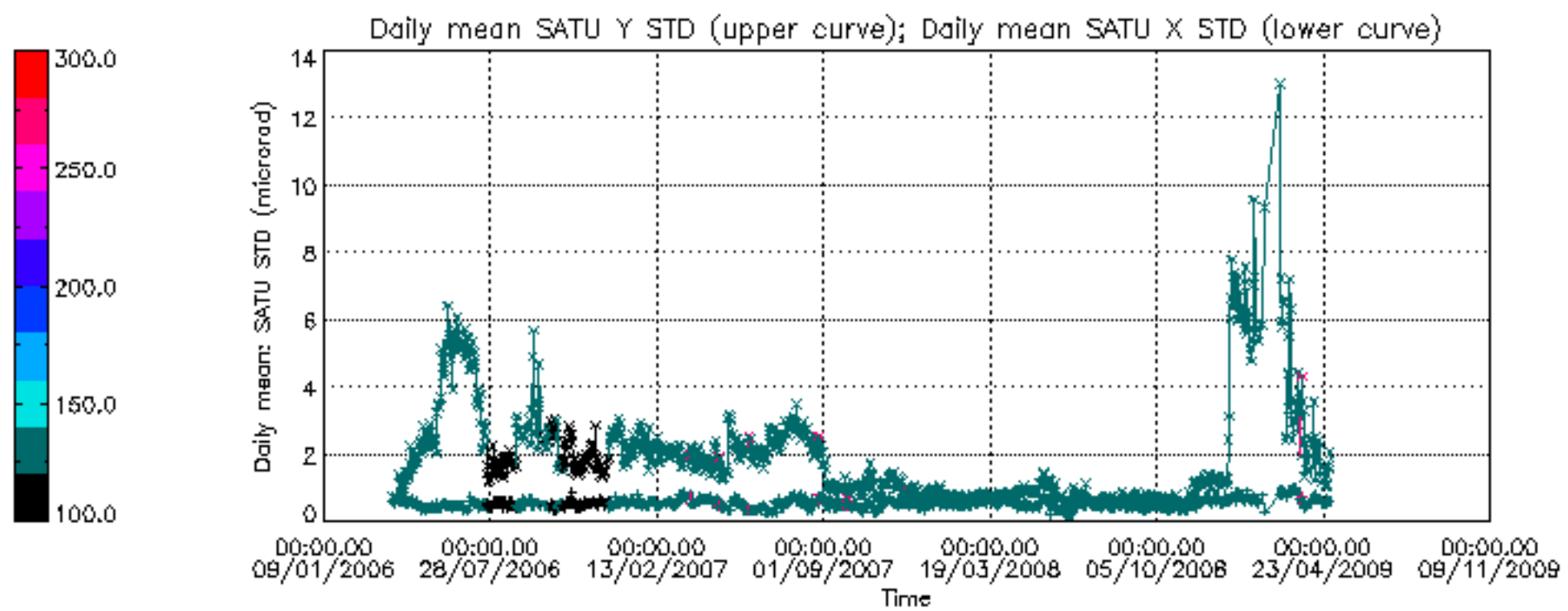


Tangent altitude at which the star is lost









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 2; -476.9; 01-MAY-2009 00:18:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37473
 3; 748.8; 01-MAY-2009 00:38:31; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;37474
 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474
 9; 1728.1; 01-MAY-2009 00:54:50; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37474
 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474
 14; 3828.1; 01-MAY-2009 01:29:50; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37474
 15; 4509.0; 01-MAY-2009 01:41:11; Dark ; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;37474
 16; 5033.8; 01-MAY-2009 01:49:56; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37474
 17; 5179.5; 01-MAY-2009 01:52:22; Dark ; 30.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 60; 0;37474

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 2; -632.3; 01-MAY-2009 01:56:06; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37474
 3; -475.7; 01-MAY-2009 01:58:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37474
 4; 749.7; 01-MAY-2009 02:19:08; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;37475
 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475
 15; 3827.8; 01-MAY-2009 03:10:26; Bright; 51.5; 89; 5Alp Cep ; 2.45; 8000;occ; 103; 0;37475

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 2; -1001.3; 01-MAY-2009 03:30:33; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37475
 3; -855.6; 01-MAY-2009 03:32:58; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37475
 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475
 6; 751.0; 01-MAY-2009 03:59:45; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37476
 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476
 10; 1401.5; 01-MAY-2009 04:10:36; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37476
 11; 1590.8; 01-MAY-2009 04:13:45; Bright; 52.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 105; 0;37476
 12; 1728.3; 01-MAY-2009 04:16:02; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37476
 13; 2263.9; 01-MAY-2009 04:24:58; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;37476
 14; 2454.3; 01-MAY-2009 04:28:08; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37476
 15; 2634.9; 01-MAY-2009 04:31:09; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37476
 16; 3208.5; 01-MAY-2009 04:40:43; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37476

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 2; -1526.7; 01-MAY-2009 05:02:23; Dark ; 38.0; 164; 44Eta Peg ; 2.95; 5400;occ; 76; 0;37476
 3; -1000.4; 01-MAY-2009 05:11:10; Dark ; 55.0; 61; 8Eps Peg ; 2.10; 3900;occ; 110; 0;37476
 4; -854.7; 01-MAY-2009 05:13:35; Dark ; 49.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 98; 0;37476
 5; -629.8; 01-MAY-2009 05:17:20; Dark ; 63.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 127; 0;37476
 6; -473.4; 01-MAY-2009 05:19:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37476
 7; 751.5; 01-MAY-2009 05:40:22; Dark ; 55.5; 40; The Sco ; 1.86; 7100;occ; 111; 0;37477
 8; 856.7; 01-MAY-2009 05:42:07; Dark ; 62.5; 25; 35Lam Sco ; 1.62; 28000;occ; 125; 0;37477
 9; 1043.4; 01-MAY-2009 05:45:13; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;37477
 10; 1267.9; 01-MAY-2009 05:48:58; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37477
 11; 1401.8; 01-MAY-2009 05:51:12; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37477
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 13; 1728.1; 01-MAY-2009 05:56:38; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37477
 14; 2263.7; 01-MAY-2009 06:05:34; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37477
 15; 2453.6; 01-MAY-2009 06:08:44; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37477
 16; 2634.5; 01-MAY-2009 06:11:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37477

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2; 1050.0; 01-MAY-2009 20:50:44; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37486
3; 1272.3; 01-MAY-2009 20:54:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37486
4; 1404.7; 01-MAY-2009 20:56:38; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37486
5; 1592.1; 01-MAY-2009 20:59:46; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37486
6; 1727.8; 01-MAY-2009 21:02:01; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37486
7; 2261.0; 01-MAY-2009 21:10:55; Bright; 39.0; 3; 16Alp Boo ; -0.05; 4250;occ; 78; 0;37486
8; 2448.9; 01-MAY-2009 21:14:02; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37486
9; 2630.2; 01-MAY-2009 21:17:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37486
10; 3202.2; 01-MAY-2009 21:26:36; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37486
11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
12; 4511.0; 01-MAY-2009 21:48:25; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37486
13; 5044.1; 01-MAY-2009 21:57:18; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37486
14; 5189.4; 01-MAY-2009 21:59:43; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;37486
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2; -617.2; 01-MAY-2009 22:03:32; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;37486
3; -461.7; 01-MAY-2009 22:06:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37486
4; 760.0; 01-MAY-2009 22:26:29; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37487
5; 866.0; 01-MAY-2009 22:28:15; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37487
6; 1050.2; 01-MAY-2009 22:31:20; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37487
7; 1272.9; 01-MAY-2009 22:35:02; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37487
8; 1405.0; 01-MAY-2009 22:37:14; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37487
9; 1592.3; 01-MAY-2009 22:40:22; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37487
10; 1727.9; 01-MAY-2009 22:42:37; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37487
11; 2260.8; 01-MAY-2009 22:51:30; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37487
12; 2448.5; 01-MAY-2009 22:54:38; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37487
13; 2629.7; 01-MAY-2009 22:57:39; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37487
14; 3201.4; 01-MAY-2009 23:07:11; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37487
15; 3824.1; 01-MAY-2009 23:17:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37487
16; 4511.0; 01-MAY-2009 23:29:00; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37487
17; 5045.0; 01-MAY-2009 23:37:54; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37487
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3; 760.8; 02-MAY-2009 00:07:06; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;37488
4; 867.0; 02-MAY-2009 00:08:52; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37488
5; 1050.8; 02-MAY-2009 00:11:56; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37488
6; 1273.3; 02-MAY-2009 00:15:39; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37488
7; 1405.3; 02-MAY-2009 00:17:51; Dark ; 50.0; 80; 7Del Sco ; 2.32; 30000;occ; 100; 0;37488
8; 1592.5; 02-MAY-2009 00:20:58; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37488
9; 1727.7; 02-MAY-2009 00:23:13; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37488
10; 2260.5; 02-MAY-2009 00:32:06; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37488
11; 2447.9; 02-MAY-2009 00:35:13; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37488
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13; 3200.9; 02-MAY-2009 00:47:46; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37488
14; 3823.8; 02-MAY-2009 00:58:09; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37488
15; 4511.1; 02-MAY-2009 01:09:36; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37488
16; 5045.7; 02-MAY-2009 01:18:31; Dark ; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;37488
17; 5191.1; 02-MAY-2009 01:20:56; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;37488
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5; -628.6; 01-MAY-2009 06:57:57; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37477
6; -472.2; 01-MAY-2009 07:00:34; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37477
7; 751.9; 01-MAY-2009 07:20:58; Dark ; 57.0; 40; The Sco ; 1.86; 7100;occ; 114; 0;37478
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6; 4516.7; 04-MAY-2009 10:10:04; Dark ; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;37522
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4; 2430.3; 04-MAY-2009 16:17:41; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37526
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6; 909.0; 05-MAY-2009 05:17:07; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37534
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8; 1294.2; 05-MAY-2009 05:23:32; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37534
9; 1417.7; 05-MAY-2009 05:25:36; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37534
10; 1725.5; 05-MAY-2009 05:30:44; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37534
11; 2427.5; 05-MAY-2009 05:42:26; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37534
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13; 2611.0; 05-MAY-2009 05:45:29; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37534
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4; 1420.4; 05-MAY-2009 20:31:02; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37543
5; 1726.0; 05-MAY-2009 20:36:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37543
6; 2423.5; 05-MAY-2009 20:47:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37543
7; 2607.5; 05-MAY-2009 20:50:49; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37543
8; 3168.4; 05-MAY-2009 21:00:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37543
9; 3805.9; 05-MAY-2009 21:10:48; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37543
10; 4549.7; 05-MAY-2009 21:23:11; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37543
11; 4798.4; 05-MAY-2009 21:27:20; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37543
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3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544
4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544
5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544
6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544
7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544
8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544
9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544
10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544
11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544
12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544
13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544
14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545
4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545
5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545
6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545
7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545
8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545
9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545
10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545
11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545
12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545
13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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3; -803.7; 05-MAY-2009 06:29:11; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37534
4; -401.1; 05-MAY-2009 06:35:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37534
5; 800.6; 05-MAY-2009 06:55:55; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37535
6; 909.4; 05-MAY-2009 06:57:44; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37535
7; 1082.3; 05-MAY-2009 07:00:37; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37535
8; 1294.7; 05-MAY-2009 07:04:09; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37535
9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
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3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535
4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
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15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
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13; 7454.9; 05-MAY-2009 10:27:25; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37536
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3; 2610.1; 05-MAY-2009 10:47:16; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37537
4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
6; 4548.7; 05-MAY-2009 11:19:35; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37537
7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
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3; 2609.3; 05-MAY-2009 12:27:51; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37538
4; 3171.1; 05-MAY-2009 12:37:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37538
5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
6; 4548.9; 05-MAY-2009 13:00:11; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37538
7; 4796.6; 05-MAY-2009 13:04:19; Dark ; 33.5; 90; 54Alp Peg ; 2.49; 11000;occ; 67; 0;37538
8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
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12; 7120.8; 05-MAY-2009 13:43:03; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37538
13; 7332.5; 05-MAY-2009 13:46:34; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37538
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3; 2609.3; 05-MAY-2009 14:08:27; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37539
4; 3807.7; 05-MAY-2009 14:28:26; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37539
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7; 5237.0; 05-MAY-2009 14:52:15; Dark ; 48.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 96; 0;37539
8; 5641.6; 05-MAY-2009 14:58:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37539
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12; 7332.9; 05-MAY-2009 15:27:11; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37539

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9; 5238.0; 05-MAY-2009 16:32:52; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37540
10; 5643.0; 05-MAY-2009 16:39:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37540
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5; 2424.5; 05-MAY-2009 17:26:34; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;37541
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13; 6842.4; 05-MAY-2009 18:40:12; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;37541
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13; 2557.8; 28-MAY-2009 07:02:14; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;37864
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5; 1835.3; 28-MAY-2009 20:14:59; Bright; 31.0; 120; 1Del Oph ; 2.73; 3200;occ; 62; 0;37872
6; 2341.0; 28-MAY-2009 20:23:25; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;37872
7; 2553.0; 28-MAY-2009 20:26:57; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;37872
8; 3007.3; 28-MAY-2009 20:34:31; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37872
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 11; 4831.0; 28-MAY-2009 19:24:19; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37871
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8; 5251.8; 29-MAY-2009 12:17:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37881
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3; 2336.9; 29-MAY-2009 13:09:20; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37882
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8; 4836.0; 29-MAY-2009 13:50:59; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37882
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11; 6216.8; 29-MAY-2009 14:13:59; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37882
12; 7120.7; 29-MAY-2009 14:29:03; Dark ; 37.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 75; 0;37882
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3; 2336.2; 29-MAY-2009 14:49:55; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37883
4; 2546.7; 29-MAY-2009 14:53:25; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37883
5; 3000.1; 29-MAY-2009 15:00:59; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37883
6; 3648.7; 29-MAY-2009 15:11:47; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37883
7; 4549.4; 29-MAY-2009 15:26:48; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37883
8; 4836.6; 29-MAY-2009 15:31:35; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37883
9; 5253.5; 29-MAY-2009 15:38:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37883
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13; 7225.4; 29-MAY-2009 16:11:24; Dark ; 39.0; 116; 19Del Sgr ; 2.70; 4100;occ; 78; 0;37883
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3; 2335.7; 29-MAY-2009 16:30:30; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37884
4; 2546.2; 29-MAY-2009 16:34:01; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37884
5; 2998.9; 29-MAY-2009 16:41:34; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37884
6; 3648.0; 29-MAY-2009 16:52:23; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37884
7; 4549.6; 29-MAY-2009 17:07:24; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37884
8; 4837.1; 29-MAY-2009 17:12:12; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37884
9; 5254.3; 29-MAY-2009 17:19:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37884
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11; 6219.1; 29-MAY-2009 17:35:14; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37884
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3; 1587.9; 29-MAY-2009 17:58:39; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;37885
4; 1701.3; 29-MAY-2009 18:00:32; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37885
5; 2335.3; 29-MAY-2009 18:11:06; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37885
6; 2545.6; 29-MAY-2009 18:14:36; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37885
7; 2998.2; 29-MAY-2009 18:22:09; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37885
8; 3647.4; 29-MAY-2009 18:32:58; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37885
9; 4550.1; 29-MAY-2009 18:48:01; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37885
10; 4837.4; 29-MAY-2009 18:52:48; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37885
11; 5255.1; 29-MAY-2009 18:59:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37885
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 4; 1701.3; 29-MAY-2009 19:41:08; Bright; 31.5; 98; 13Zet Oph ; 2.57; 30000;occ; 63; 0;37886
 5; 2334.8; 29-MAY-2009 19:51:41; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37886
 6; 2545.1; 29-MAY-2009 19:55:12; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37886
 7; 2997.4; 29-MAY-2009 20:02:44; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37886
 8; 3646.8; 29-MAY-2009 20:13:33; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37886
 9; 4549.9; 29-MAY-2009 20:28:36; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37886
 10; 4837.9; 29-MAY-2009 20:33:25; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37886
 11; 5255.8; 29-MAY-2009 20:40:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37886
 12; 5876.9; 29-MAY-2009 20:50:44; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37886
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 3; 1088.7; 30-MAY-2009 00:32:43; Dark ; 37.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 74; 0;37889
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 5; 1588.5; 30-MAY-2009 00:41:03; Bright; 34.0; 86; 35Eta Oph ; 2.43; 10200;occ; 68; 0;37889
 6; 1701.8; 30-MAY-2009 00:42:56; Bright; 31.0; 98; 13Zet Oph ; 2.57; 30000;occ; 62; 0;37889
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 8; 2543.5; 30-MAY-2009 00:56:58; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;37889
 9; 2995.4; 30-MAY-2009 01:04:30; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37889
 10; 3645.3; 30-MAY-2009 01:15:20; Bright; 32.0; 89; 5Alp Cep ; 2.45; 8000;occ; 64; 0;37889
 11; 4550.5; 30-MAY-2009 01:30:25; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37889
 12; 4839.3; 30-MAY-2009 01:35:14; Dark ; 28.5; 140; 88Gam Peg ; 2.83; 26000;occ; 57; 0;37889

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 5; 1192.7; 30-MAY-2009 02:15:03; Dark ; 39.0; 116; 19Del Sgr ; 2.70; 4100;occ; 78; 0;37890
 6; 1588.2; 30-MAY-2009 02:21:38; Bright; 34.0; 86; 35Eta Oph ; 2.43; 10200;occ; 68; 0;37890
 7; 1701.8; 30-MAY-2009 02:23:32; Bright; 31.5; 98; 13Zet Oph ; 2.57; 30000;occ; 63; 0;37890
 8; 2333.3; 30-MAY-2009 02:34:03; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37890
 9; 2542.8; 30-MAY-2009 02:37:33; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37890
 10; 2994.9; 30-MAY-2009 02:45:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37890
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 5; 190.9; 30-MAY-2009 03:38:57; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37891
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 10; 2332.8; 30-MAY-2009 04:14:39; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37891
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 6; 192.1; 30-MAY-2009 05:19:34; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37892
 7; 1090.0; 30-MAY-2009 05:34:32; Dark ; 37.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 75; 0;37892
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 10; 1702.2; 30-MAY-2009 05:44:44; Bright; 31.0; 98; 13Zet Oph ; 2.57; 30000;occ; 62; 0;37892
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 12; 2541.8; 30-MAY-2009 05:58:44; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37892
 13; 2993.6; 30-MAY-2009 06:06:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37892
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7; 2987.8; 30-MAY-2009 21:11:33; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;37901
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3; 204.9; 30-MAY-2009 22:05:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;37902
4; 1096.4; 30-MAY-2009 22:20:38; Dark ; 36.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 73; 0;37902
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6; 1590.0; 30-MAY-2009 22:28:52; Bright; 33.0; 86; 35Eta Oph ; 2.43; 10200;occ; 66; 0;37902
7; 1702.5; 30-MAY-2009 22:30:44; Bright; 30.5; 98; 13Zet Oph ; 2.57; 30000;occ; 61; 0;37902
8; 2328.3; 30-MAY-2009 22:41:10; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;37902
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2; 1590.8; 31-MAY-2009 16:55:28; Bright; 32.5; 86; 35Eta Oph ; 2.43; 10200;occ; 65; 0;37913
3; 1702.7; 31-MAY-2009 16:57:19; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37913
4; 2324.4; 31-MAY-2009 17:07:41; Bright; 32.5; 127; 27Bet Her ; 2.78; 4700;occ; 65; 0;37913
5; 2530.9; 31-MAY-2009 17:11:08; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37913
6; 2979.9; 31-MAY-2009 17:18:37; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37913
7; 3631.3; 31-MAY-2009 17:29:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37913
8; 3934.6; 31-MAY-2009 17:34:31; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37913
9; 4555.5; 31-MAY-2009 17:44:52; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37913
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11; 5278.3; 31-MAY-2009 17:56:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37913
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2; 1205.8; 31-MAY-2009 18:29:39; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37914
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4; 1702.7; 31-MAY-2009 18:37:55; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37914
5; 2324.1; 31-MAY-2009 18:48:17; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37914
6; 2530.4; 31-MAY-2009 18:51:43; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;37914
7; 2979.3; 31-MAY-2009 18:59:12; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37914
8; 3630.9; 31-MAY-2009 19:10:04; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37914
9; 3934.2; 31-MAY-2009 19:15:07; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;37914
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