

GOMOS Daily Report 07-AUG-2008

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	09AUG2008 05:32:51
Data source version	GOMOS/5.00
Start time of products	07AUG2008 00:01:12
Stop time of products	07AUG2008 04:21:42
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

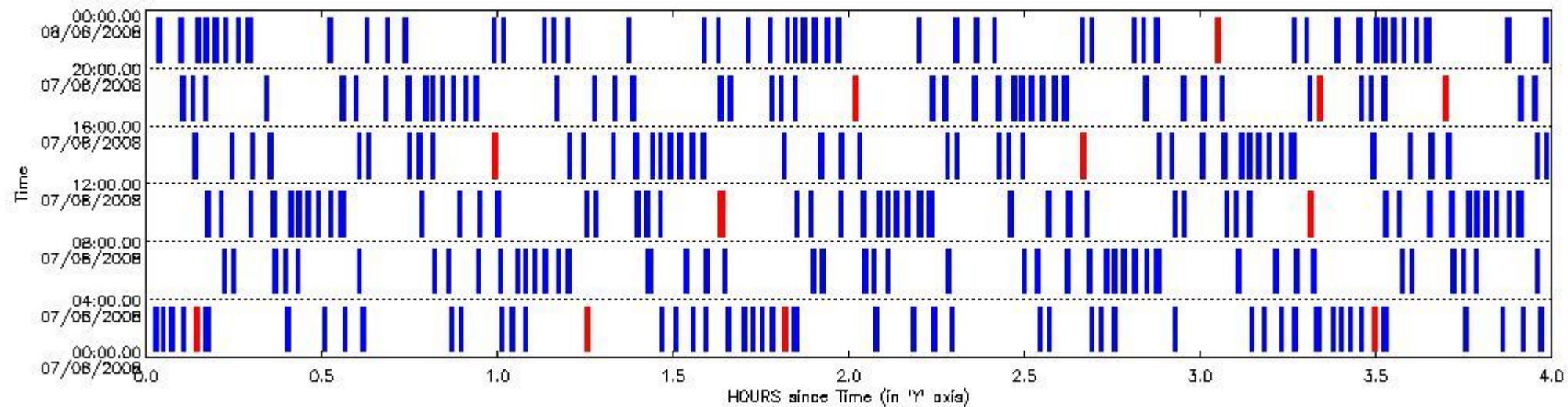
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



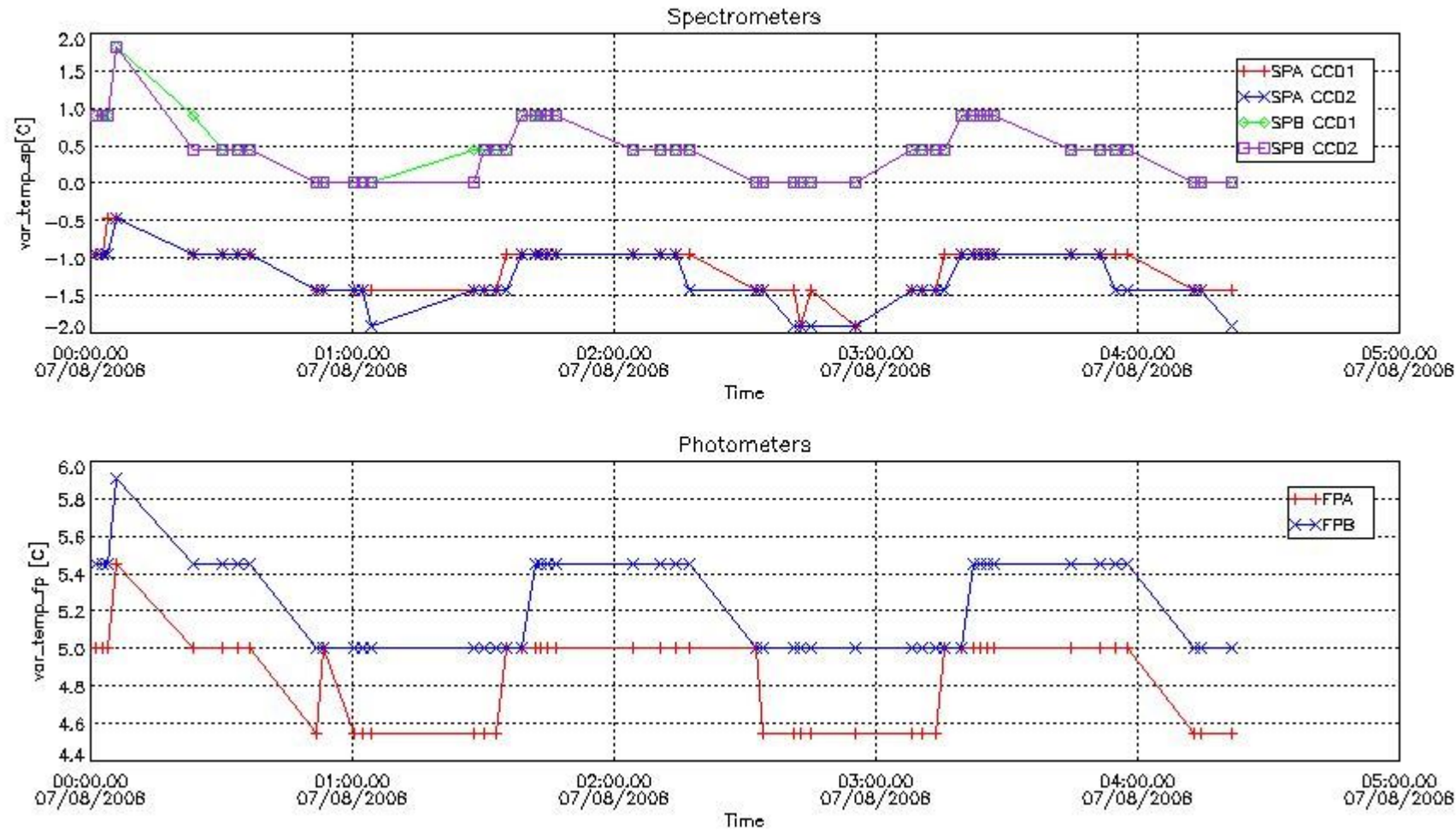
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
07-AUG-2008 00:08:06	1ZetCMa	177	33651
07-AUG-2008 01:14:46	1AlpUMi	49	33652
07-AUG-2008 01:48:42	1ZetCMa	177	33652
07-AUG-2008 03:29:18	1ZetCMa	177	33653
07-AUG-2008 09:37:46	1AlpUMi	49	33657
07-AUG-2008 11:18:22	1AlpUMi	49	33658
07-AUG-2008 12:58:58	1AlpUMi	49	33659
07-AUG-2008 14:39:34	1AlpUMi	49	33660
07-AUG-2008 18:00:46	1AlpUMi	49	33662
07-AUG-2008 19:19:57	17ZetAql	168	33663
07-AUG-2008 19:41:22	1AlpUMi	49	33663
07-AUG-2008 23:02:33	1AlpUMi	49	33665

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_1PNPDE20080807_000112_000000432071_00030_33651_9369.N1	07-AUG-2008 00:01:12	Dark	43.000	30	46Eps Ori	1.6940	30000.	86	33651	No
2	GOM_TRA_1PNPDE20080807_000233_000000402071_00030_33651_9370.N1	07-AUG-2008 00:02:33	Dark	39.500	125	44Iot Ori	2.7700	30000.	79	33651	No
3	GOM_TRA_1PNPDE20080807_000351_000000492071_00030_33651_9371.N1	07-AUG-2008 00:03:51	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	33651	No
4	GOM_TRA_1PNPDE20080807_000555_000000442071_00030_33651_9501.N1	07-AUG-2008 00:05:55	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	33651	Yes
5	GOM_TRA_1PNPDE20080807_002338_000000482071_00031_33652_9502.N1	07-AUG-2008 00:23:38	Dark	47.500	9	Alp Eri	0.45300	24000.	95	33652	No
6	GOM_TRA_1PNPDE20080807_003004_000000422071_00031_33652_9503.N1	07-AUG-2008 00:30:04	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	33652	No
7	GOM_TRA_1PNPDE20080807_003332_000000442071_00031_33652_9504.N1	07-AUG-2008 00:33:32	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	33652	No
8	GOM_TRA_1PNPDE20080807_003637_000000412071_00031_33652_9505.N1	07-AUG-2008 00:36:37	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	33652	No
9	GOM_TRA_1PNPDE20080807_005146_000000372071_00031_33652_9506.N1	07-AUG-2008 00:51:46	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	33652	No
10	GOM_TRA_1PNPDE20080807_005322_000000352071_00031_33652_9507.N1	07-AUG-2008 00:53:22	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33652	No
11	GOM_TRA_1PNPDE20080807_010029_000000362071_00031_33652_9508.N1	07-AUG-2008 01:00:29	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	33652	No
12	GOM_TRA_1PNPDE20080807_010210_000000362071_00031_33652_9509.N1	07-AUG-2008 01:02:10	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33652	No
13	GOM_TRA_1PNPDE20080807_010425_000000372071_00031_33652_9510.N1	07-AUG-2008 01:04:25	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	33652	No
14	GOM_TRA_1PNPDE20080807_012747_000000372071_00031_33652_9511.N1	07-AUG-2008 01:27:47	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	33652	No
15	GOM_TRA_1PNPDE20080807_013005_000000402071_00031_33652_9512.N1	07-AUG-2008 01:30:05	Bright	39.500	107	37The Aur	2.6490	11000.	79	33652	No
16	GOM_TRA_1PNPDE20080807_013259_000000352071_00031_33652_9513.N1	07-AUG-2008 01:32:59	Bright	35.000	28	12Bet Tau	1.6500	15200.	70	33652	No
17	GOM_TRA_1PNPDE20080807_013509_000000412071_00031_33652_9514.N1	07-AUG-2008 01:35:09	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33652	No
18	GOM_TRA_1PNPDE20080807_013854_000000552071_00031_33652_9515.N1	07-AUG-2008 01:38:54	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	33652	No
19	GOM_TRA_1PNPDE20080807_014148_000000412071_00031_33652_9516.N1	07-AUG-2008 01:41:48	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33652	No
20	GOM_TRA_1PNPDE20080807_014310_000000382071_00031_33652_9517.N1	07-AUG-2008 01:43:10	Dark	38.000	125	44Iot Ori	2.7700	30000.	76	33652	No
21	GOM_TRA_1PNPDE20080807_014446_000000362071_00031_33652_9635.N1	07-AUG-2008 01:44:46	Dark	36.000	1	9Alp CMa	-1.4400	11000.	72	33652	No
22	GOM_TRA_1PNPDE20080807_014632_000000442071_00031_33652_9636.N1	07-AUG-2008 01:46:32	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	33652	No
23	GOM_TRA_1PNPDE20080807_020415_000000432071_00032_33653_9637.N1	07-AUG-2008 02:04:15	Dark	42.500	9	Alp Eri	0.45300	24000.	85	33653	No
24	GOM_TRA_1PNPDE20080807_021041_000000442071_00032_33653_9638.N1	07-AUG-2008 02:10:41	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	33653	No
25	GOM_TRA_1PNPDE20080807_021408_000000442071_00032_33653_9639.N1	07-AUG-2008 02:14:08	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	33653	No
26	GOM_TRA_1PNPDE20080807_021713_000000412071_00032_33653_9640.N1	07-AUG-2008 02:17:13	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	33653	No
27	GOM_TRA_1PNPDE20080807_023222_000000362071_00032_33653_9641.N1	07-AUG-2008 02:32:22	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	33653	No
28	GOM_TRA_1PNPDE20080807_023358_000000362071_00032_33653_9642.N1	07-AUG-2008 02:33:58	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33653	No
29	GOM_TRA_1PNPDE20080807_024105_000000382071_00032_33653_9643.N1	07-AUG-2008 02:41:05	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33653	No
30	GOM_TRA_1PNPDE20080807_024245_000000362071_00032_33653_9644.N1	07-AUG-2008 02:42:45	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33653	No
31	GOM_TRA_1PNPDE20080807_024501_000000382071_00032_33653_9645.N1	07-AUG-2008 02:45:01	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33653	No
32	GOM_TRA_1PNPDE20080807_025525_000000332071_00032_33653_9646.N1	07-AUG-2008 02:55:25	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	33653	No
33	GOM_TRA_1PNPDE20080807_030823_000000412071_00032_33653_9811.N1	07-AUG-2008 03:08:23	Bright	40.500	42	34Bet Aur	1.9000	10200.	81	33653	No
34	GOM_TRA_1PNPDE20080807_031041_000000362071_00032_33653_9812.N1	07-AUG-2008 03:10:41	Bright	36.000	107	37The Aur	2.6490	11000.	72	33653	No
35	GOM_TRA_1PNPDE20080807_031335_000000352071_00032_33653_9813.N1	07-AUG-2008 03:13:35	Bright	35.000	28	12Bet Tau	1.6500	15200.	70	33653	No
36	GOM_TRA_1PNPDE20080807_031545_000000402071_00032_33653_9814.N1	07-AUG-2008 03:15:45	Twilight	39.500	176	23Zet Tau	3.0200	22000.	79	33653	No
37	GOM_TRA_1PNPDE20080807_031930_000000552071_00032_33653_9815.N1	07-AUG-2008 03:19:30	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	33653	No
38	GOM_TRA_1PNPDE20080807_032225_000000392071_00032_33653_9816.N1	07-AUG-2008 03:22:25	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	33653	No
39	GOM_TRA_1PNPDE20080807_032346_000000392071_00032_33653_9817.N1	07-AUG-2008 03:23:46	Dark	39.000	125	44Iot Ori	2.7700	30000.	78	33653	No
40	GOM_TRA_1PNPDE20080807_032522_000000382071_00032_33653_9818.N1	07-AUG-2008 03:25:22	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	33653	No
41	GOM_TRA_1PNPDE20080807_032708_000000412071_00032_33653_9819.N1	07-AUG-2008 03:27:08	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	33653	No
42	GOM_TRA_1PNPDE20080807_034451_000000452071_00033_33654_9820.N1	07-AUG-2008 03:44:51	Dark	44.500	9	Alp Eri	0.45300	24000.	89	33654	No
43	GOM_TRA_1PNPDE20080807_035117_000000432071_00033_33654_9821.N1	07-AUG-2008 03:51:17	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	33654	No
44	GOM_TRA_1PNPDE20080807_035445_000000422071_00033_33654_9822.N1	07-AUG-2008 03:54:45	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33654	No
45	GOM_TRA_1PNPDE20080807_035749_000000432071_00033_33654_9823.N1	07-AUG-2008 03:57:49	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	33654	No
46	GOM_TRA_1PNPDE20080807_041258_000000362071_00033_33654_9824.N1	07-AUG-2008 04:12:58	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	33654	No
47	GOM_TRA_1PNPDE20080807_041435_000000352071_00033_33654_9825.N1	07-AUG-2008 04:14:35	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33654	No
48	GOM_TRA_1PNPDE20080807_042142_000000392071_00033_33654_9826.N1	07-AUG-2008 04:21:42	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33654	No

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



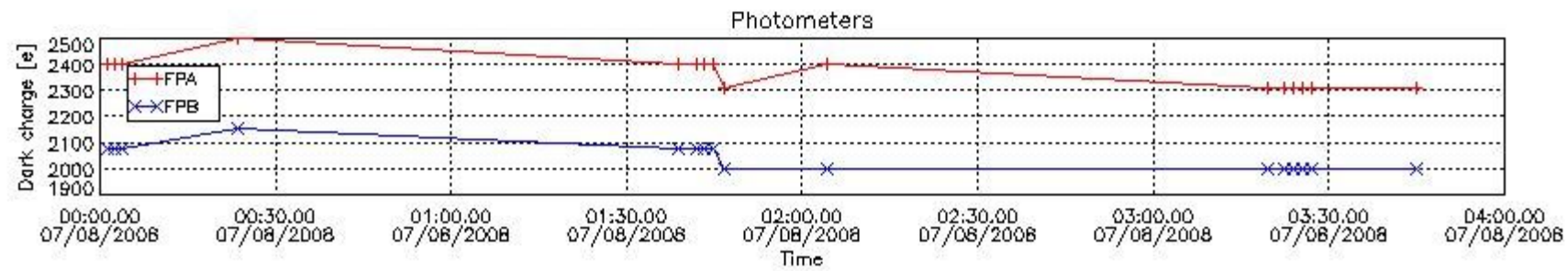
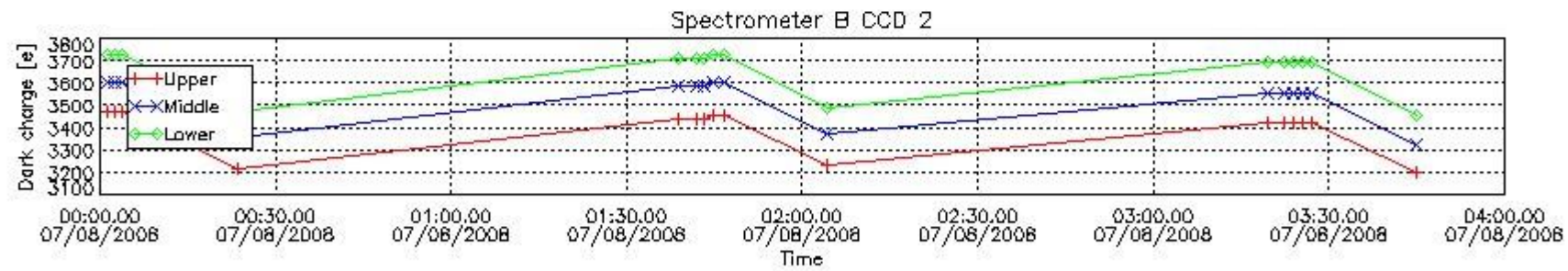
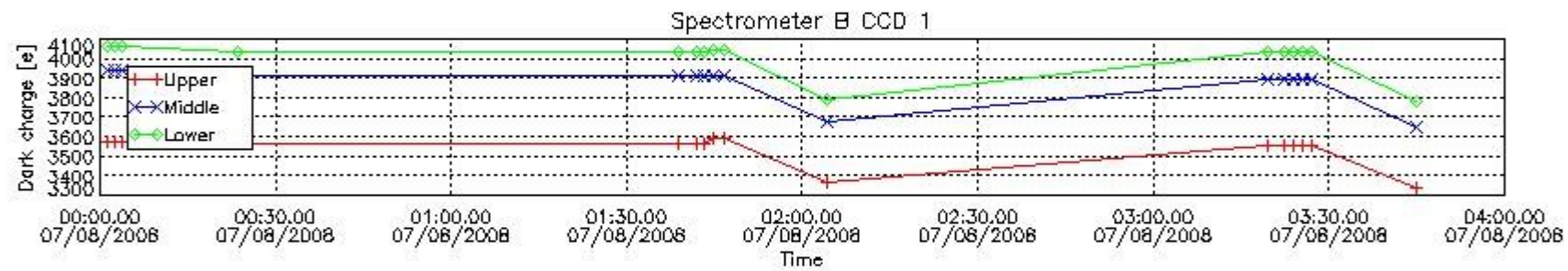
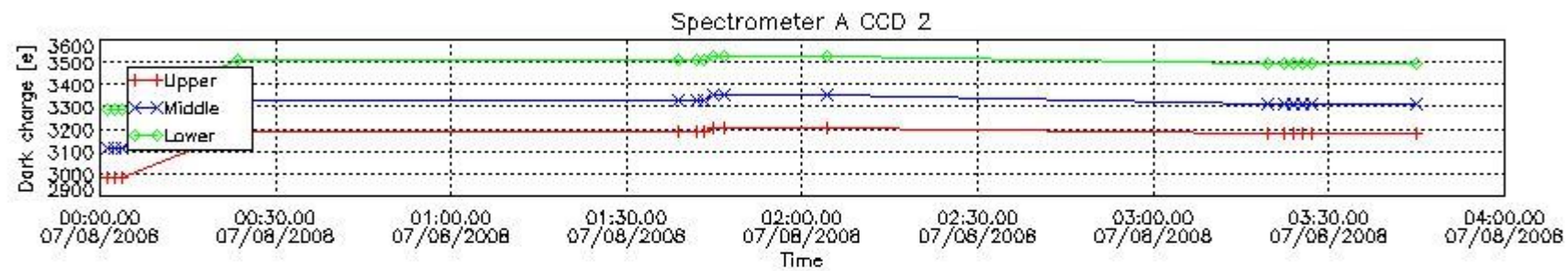
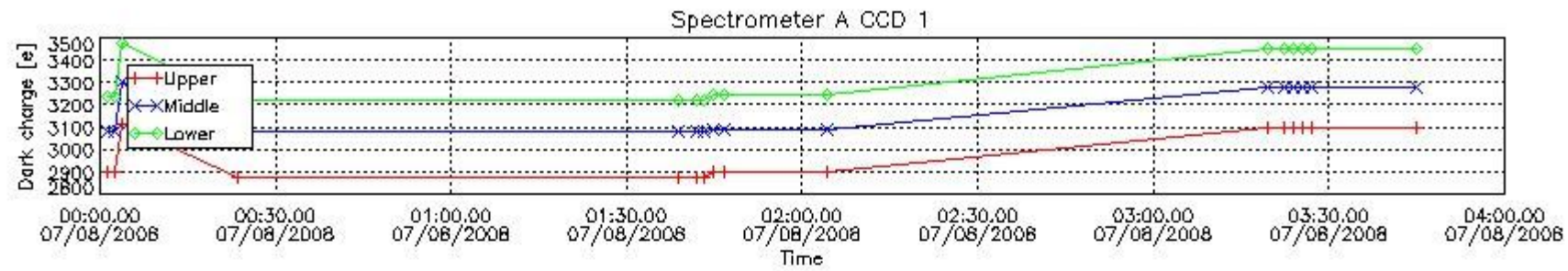
4. Overview of dark signal processing per product

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



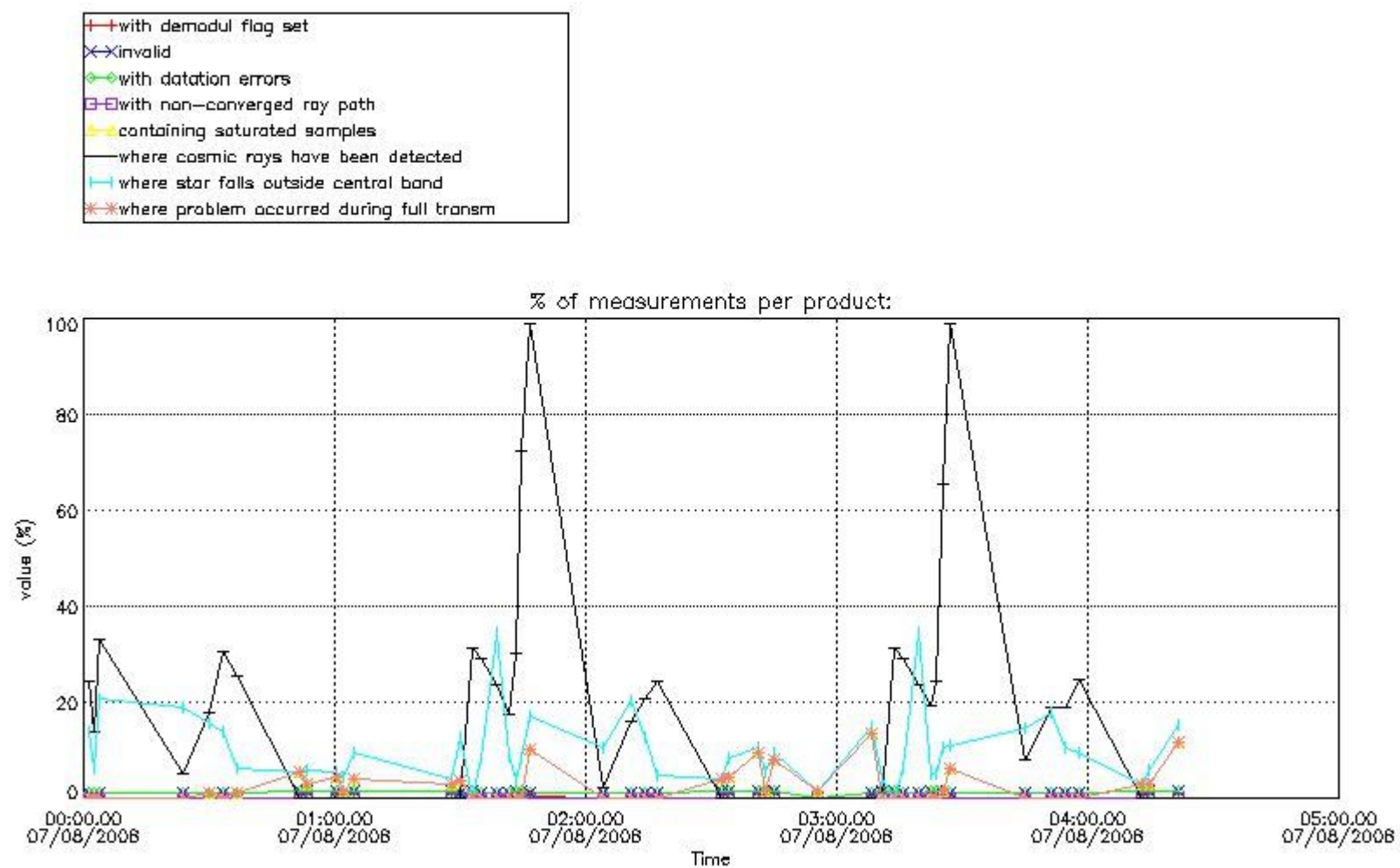
5. Demodulation flag and quality information monitoring

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.

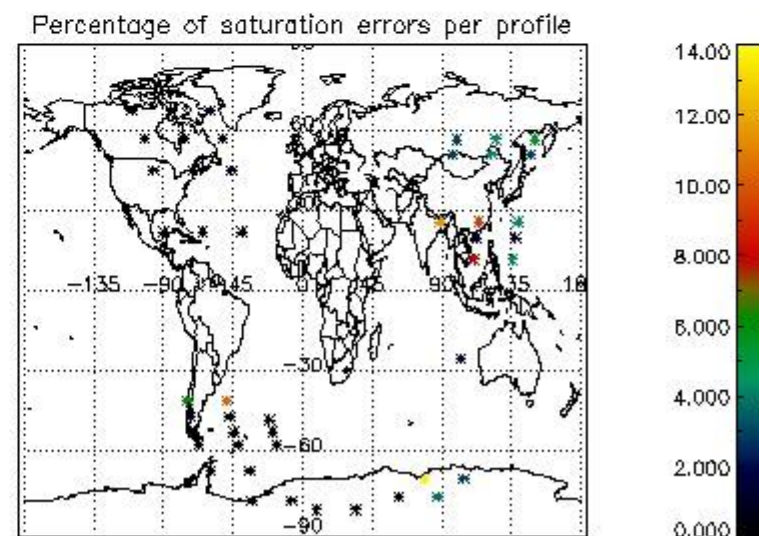
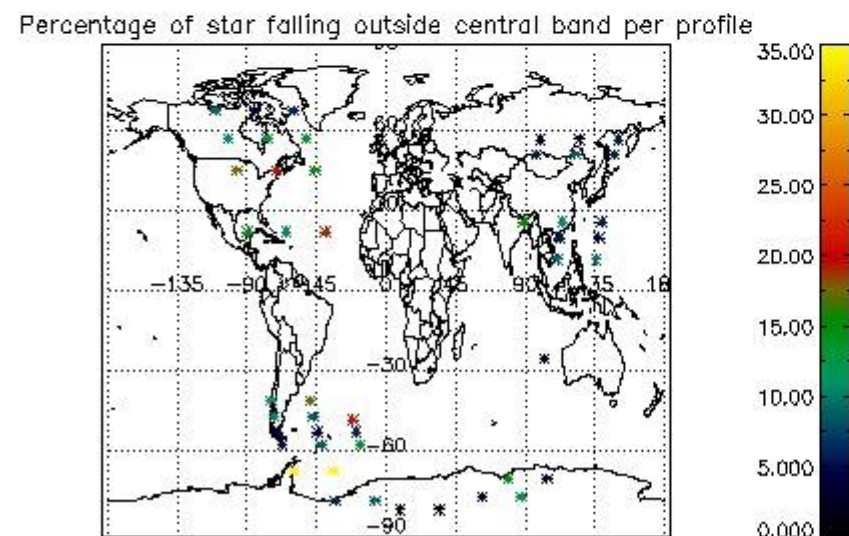
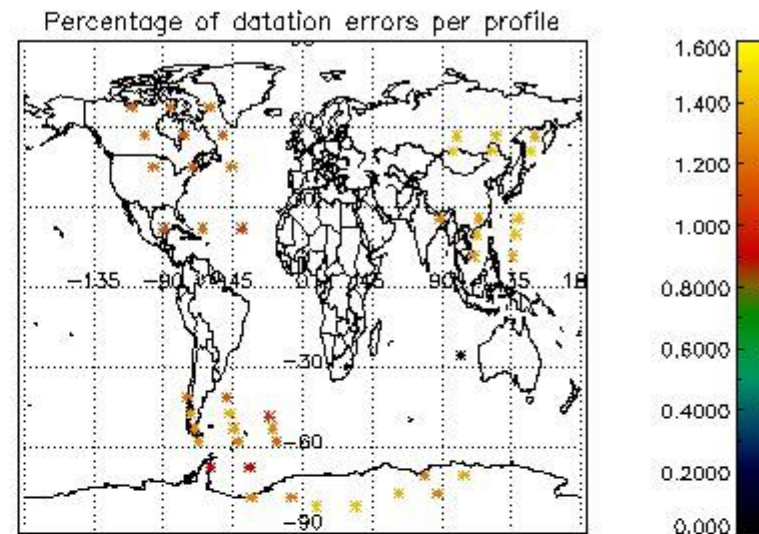
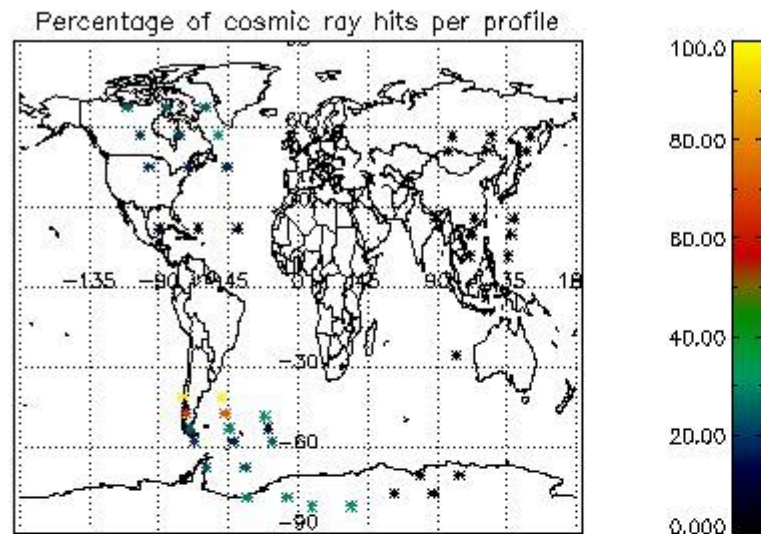
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.4043 %
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)



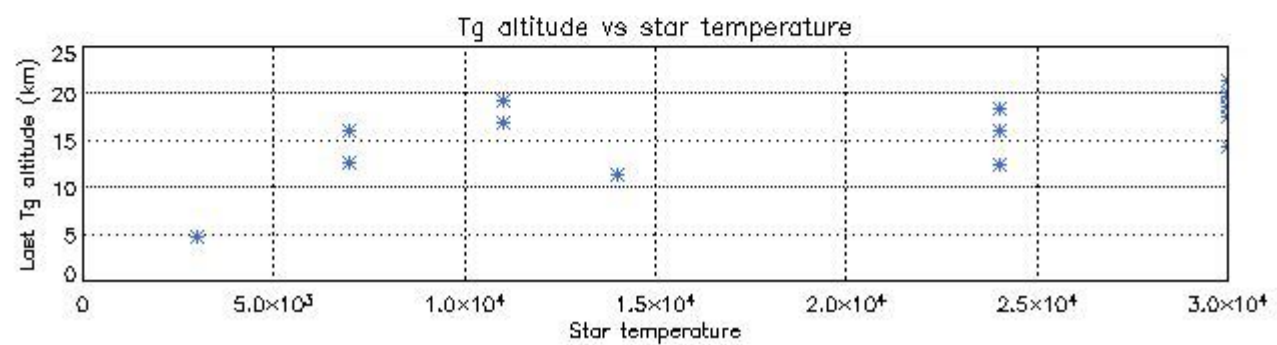
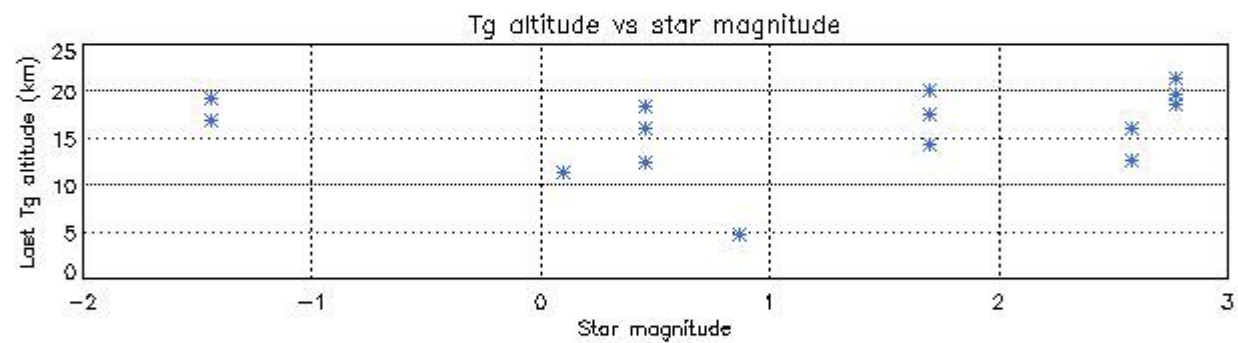
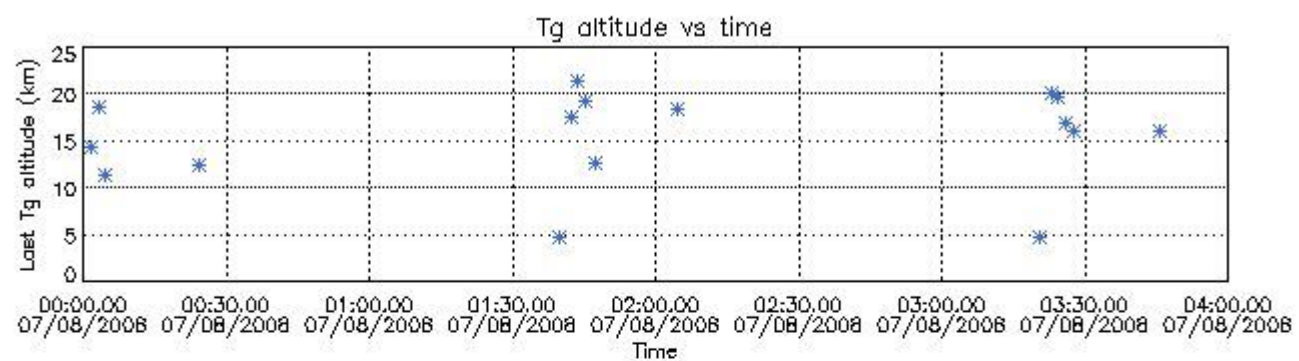
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.235	21.717	NaN
St. deviation:	5.0172	4.3980	NaN
Maximum:	21.307	31.667	NaN
Minimum:	4.6647	15.255	NaN
Number of data:	16.000	20.000	NaN

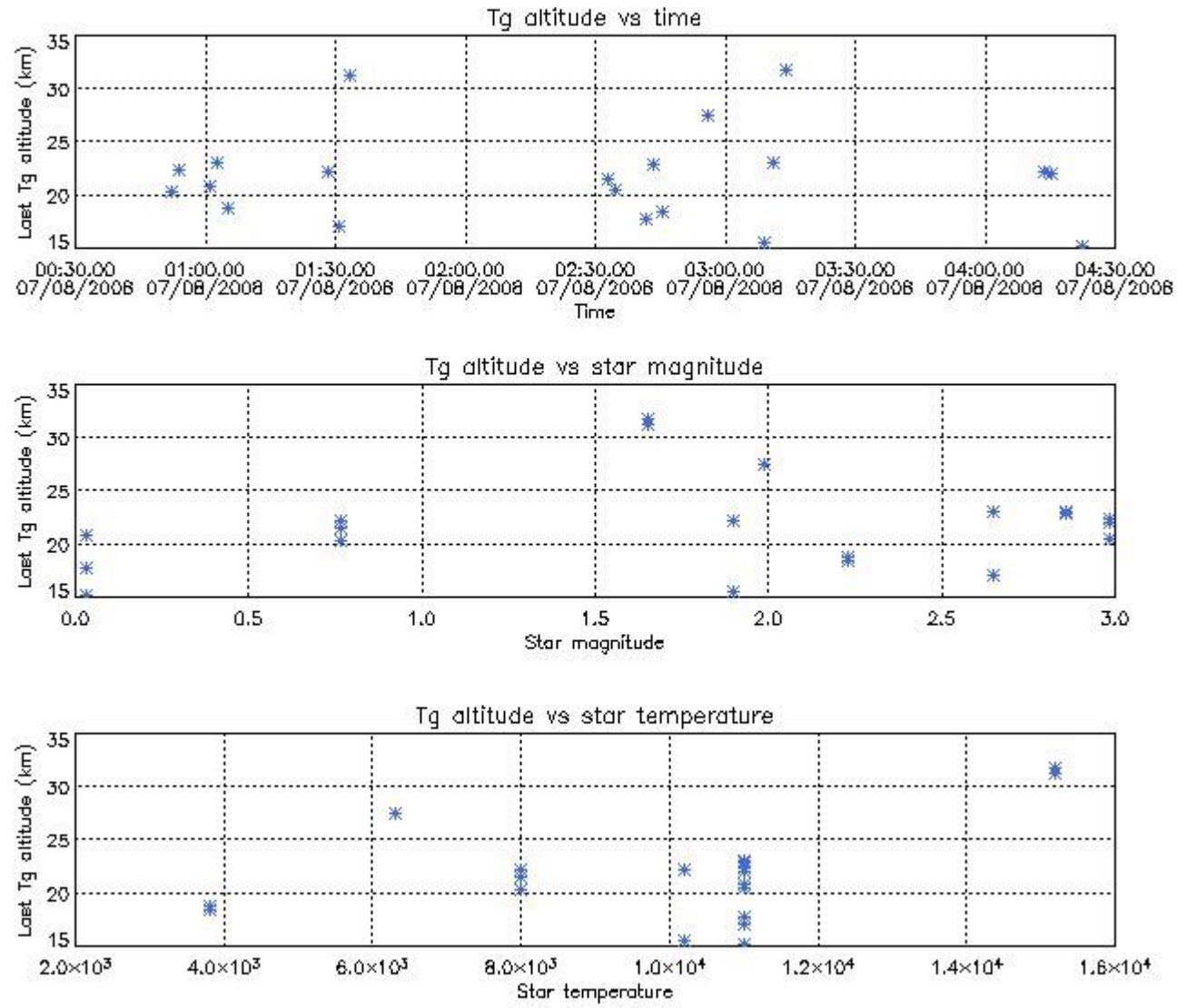
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

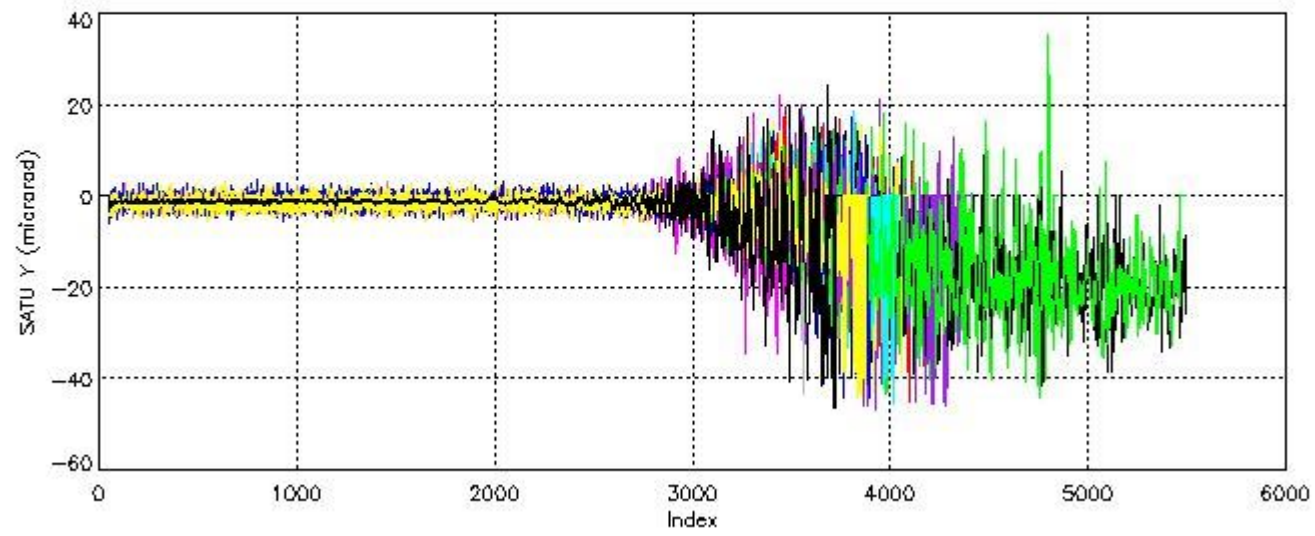
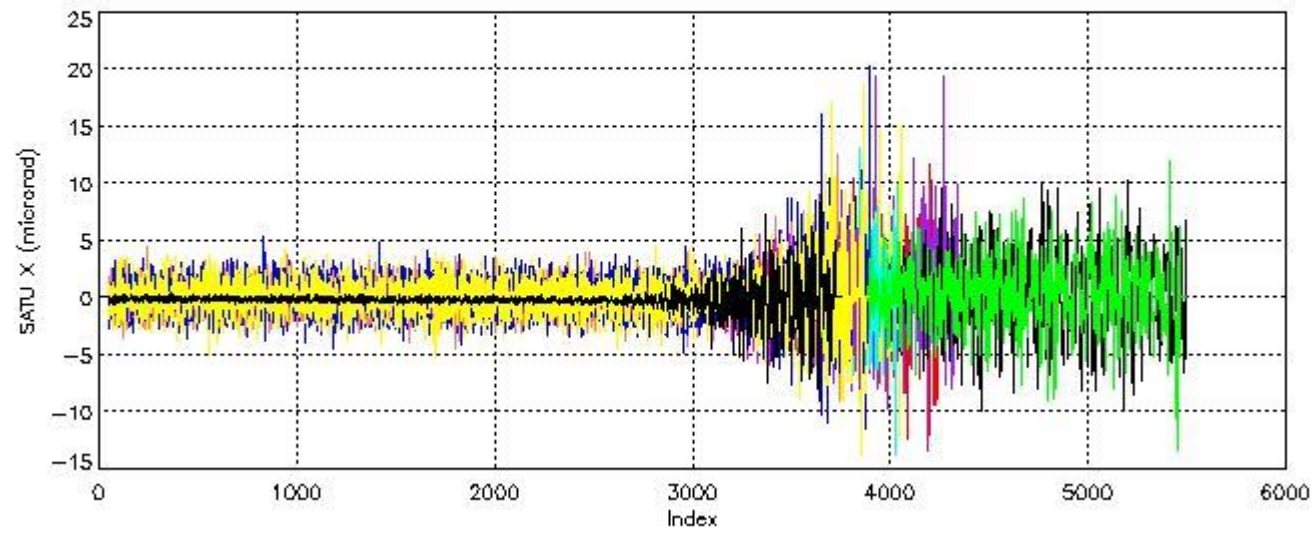


7. Star Acquisition and Tracking Unit (SATU)

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:	0.078493	-1.3469	0.053133	-1.4149
St. deviation:	0.47415	0.63892	0.71258	0.85051
Maximum:	4.5000	2.8000	5.7000	4.6000
Minimum:	-4.2000	-6.1000	-5.1000	-6.9000

Number of data:	14700.	14700.	16600.	16600.
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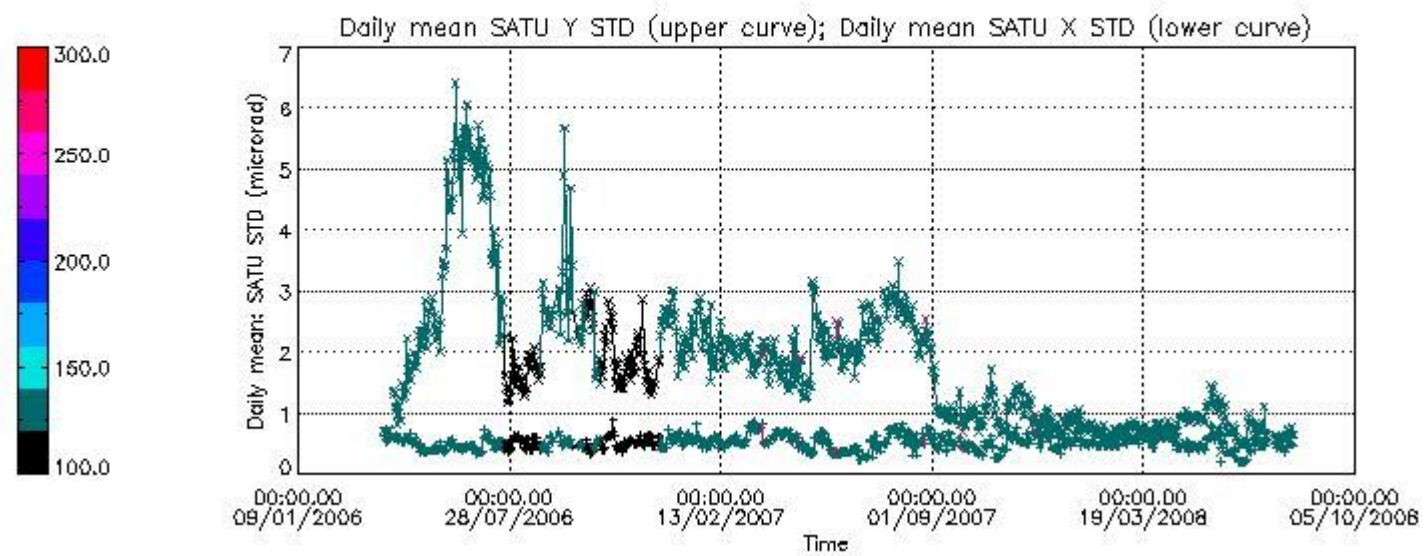
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

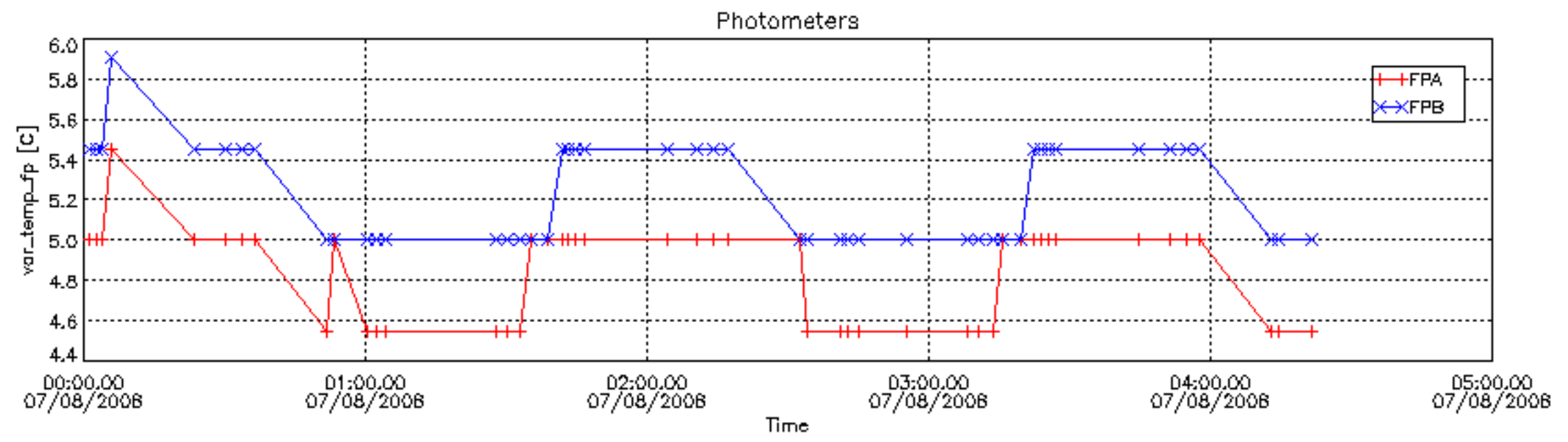
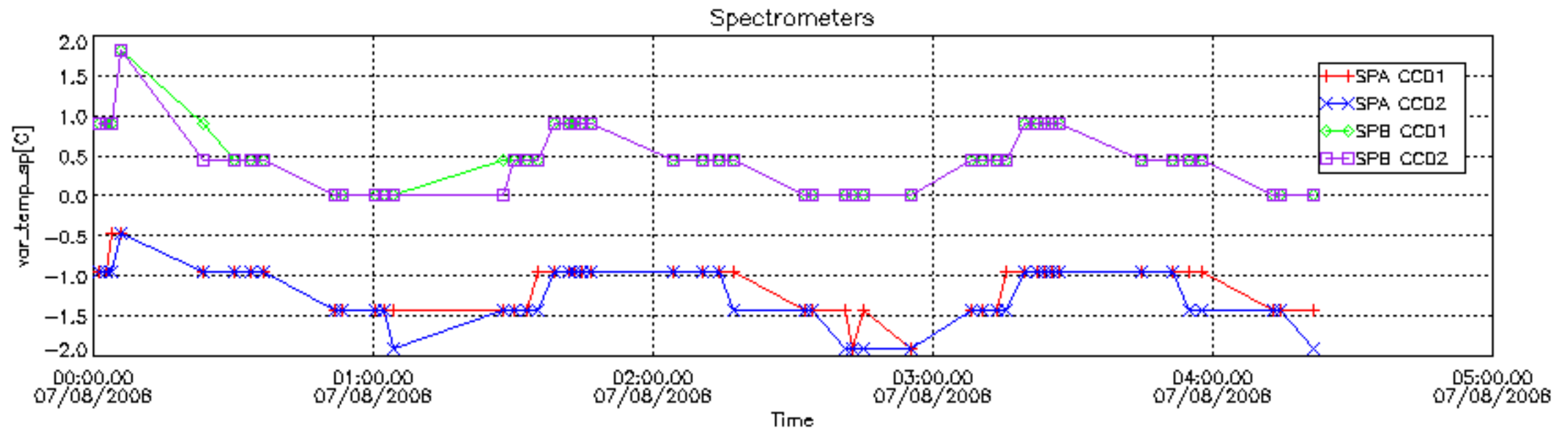
Lower curve: STD of SATU X axis

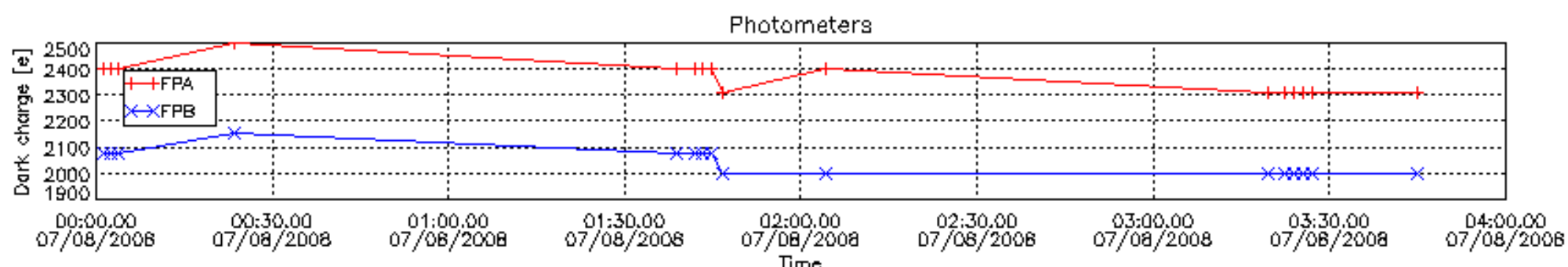
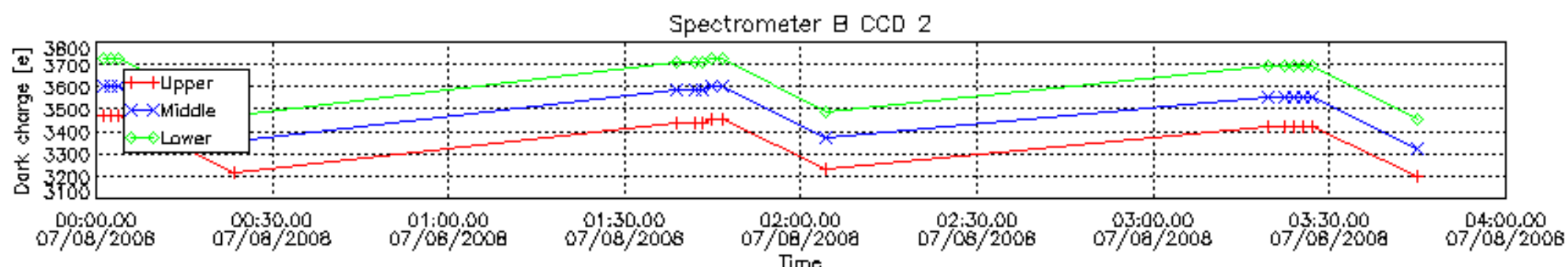
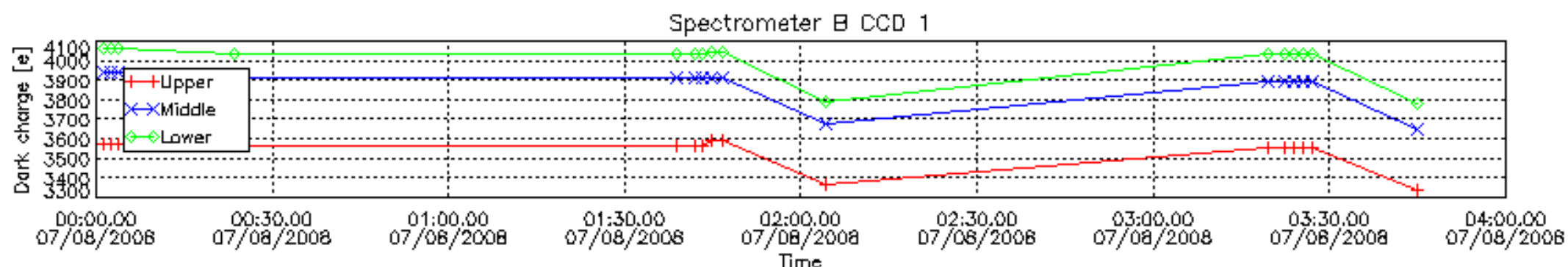
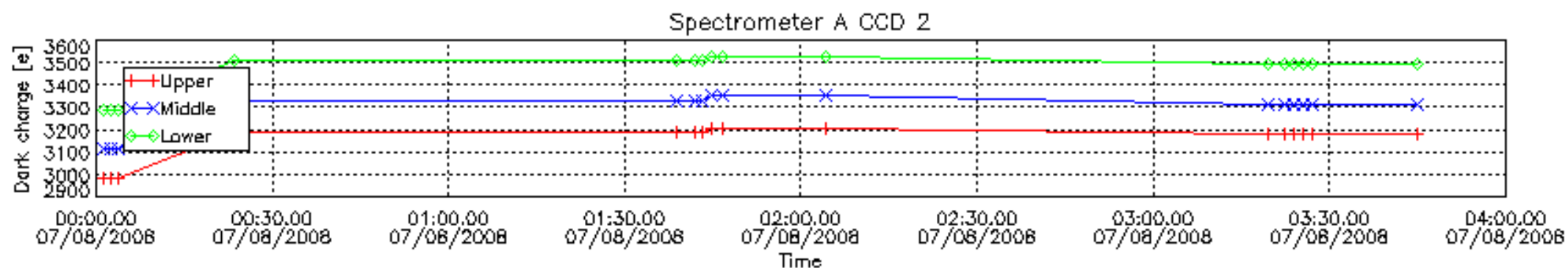
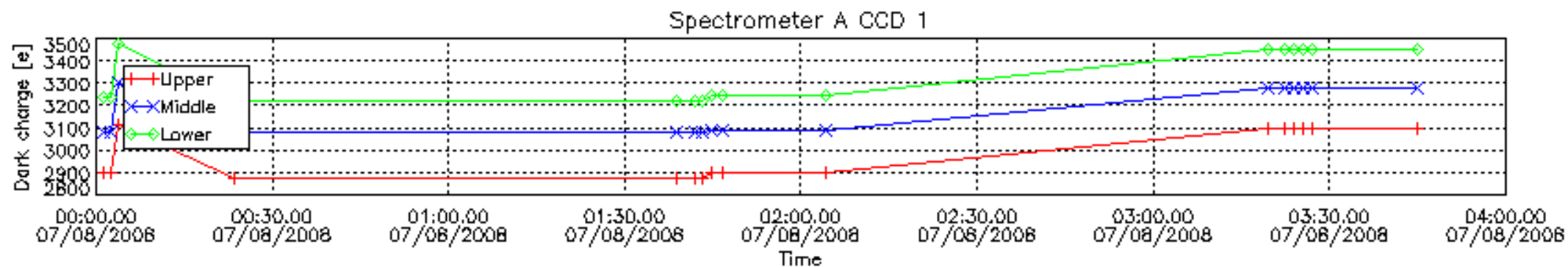


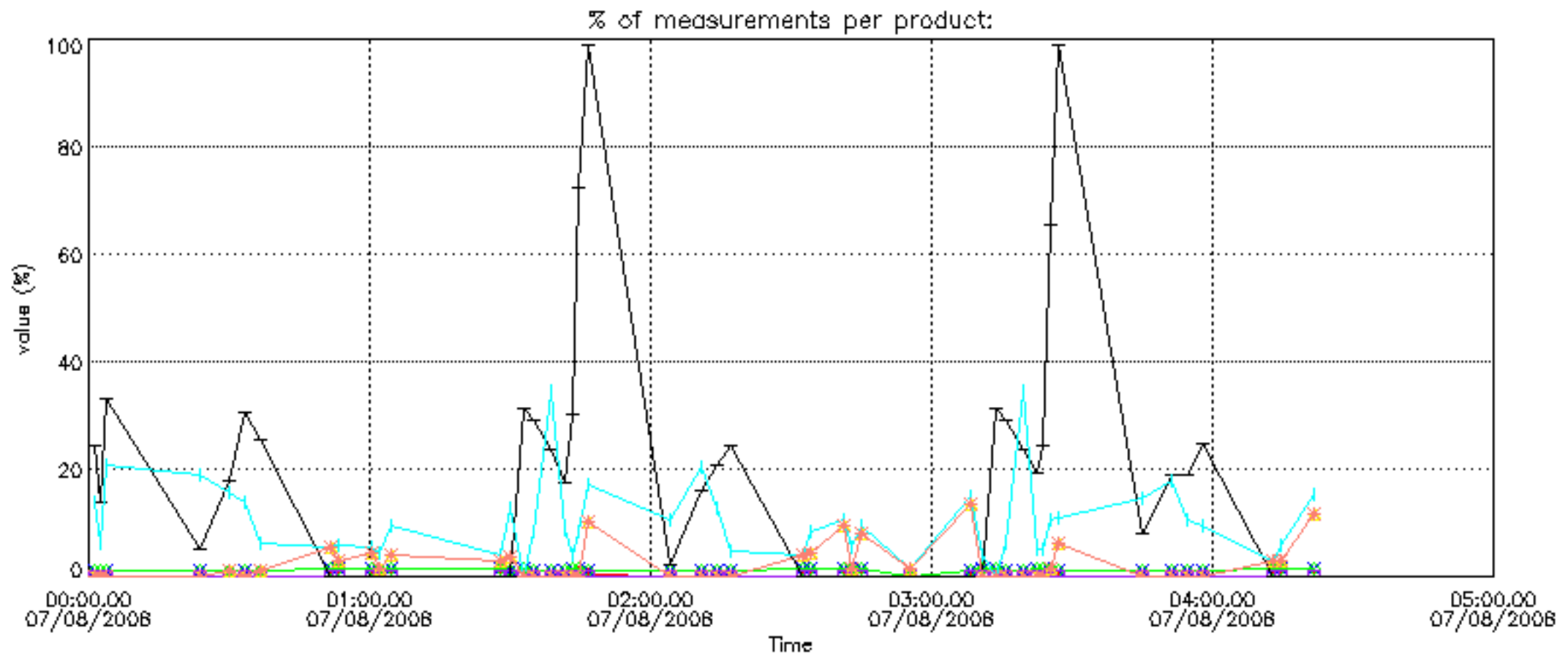
8. Auxiliary Data Files used for the production reported in section 2.4

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.

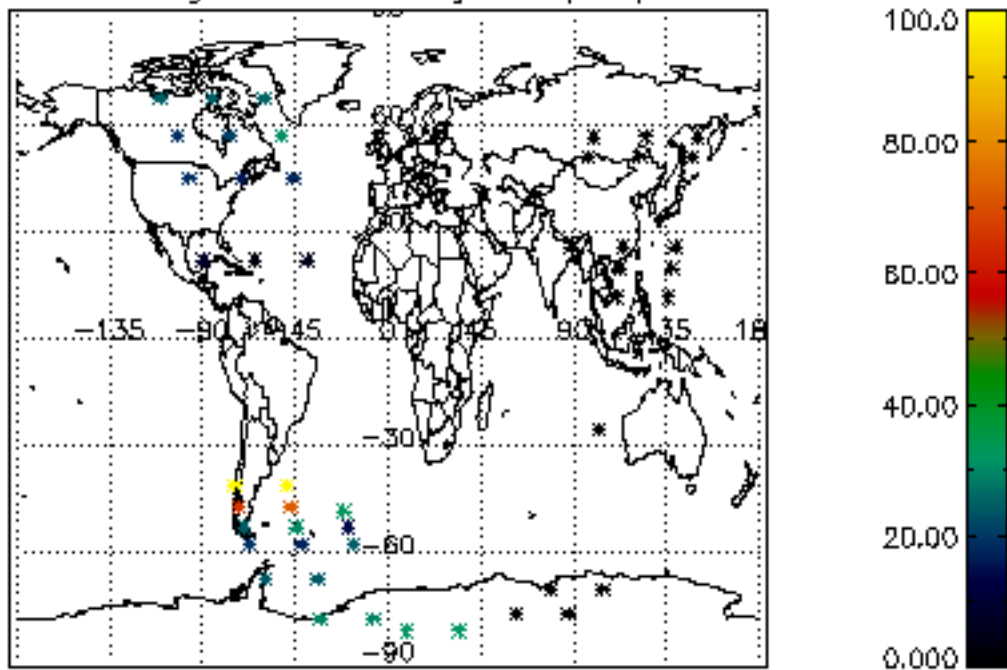
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-AUG-2008 00:01:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080801_080250_20080730_000000_20100101_000000	1	07-AUG-2008 00:01:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-AUG-2008 00:01:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-AUG-2008 00:01:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-AUG-2008 00:01:12
ECMWF_FILE	AUX_ECF_AXNECM20080806_072110_20080806_210000_20080807_090000	1	07-AUG-2008 00:01:12
ECMWF_FILE	AUX_ECF_AXNECM20080806_190112_20080807_030000_20080807_150000	33	07-AUG-2008 03:08:23
OPTIONAL_ECMWF_FILE	MISSING	1	07-AUG-2008 00:01:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080806_210641_000041442071_00029_33650_6101.N1	1	07-AUG-2008 00:01:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080806_222104_000057382071_00029_33650_6102.N1	4	07-AUG-2008 00:05:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080807_000201_000057382071_00030_33651_6103.N1	21	07-AUG-2008 01:44:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080807_014258_000041442071_00031_33652_6104.N1	33	07-AUG-2008 03:08:23



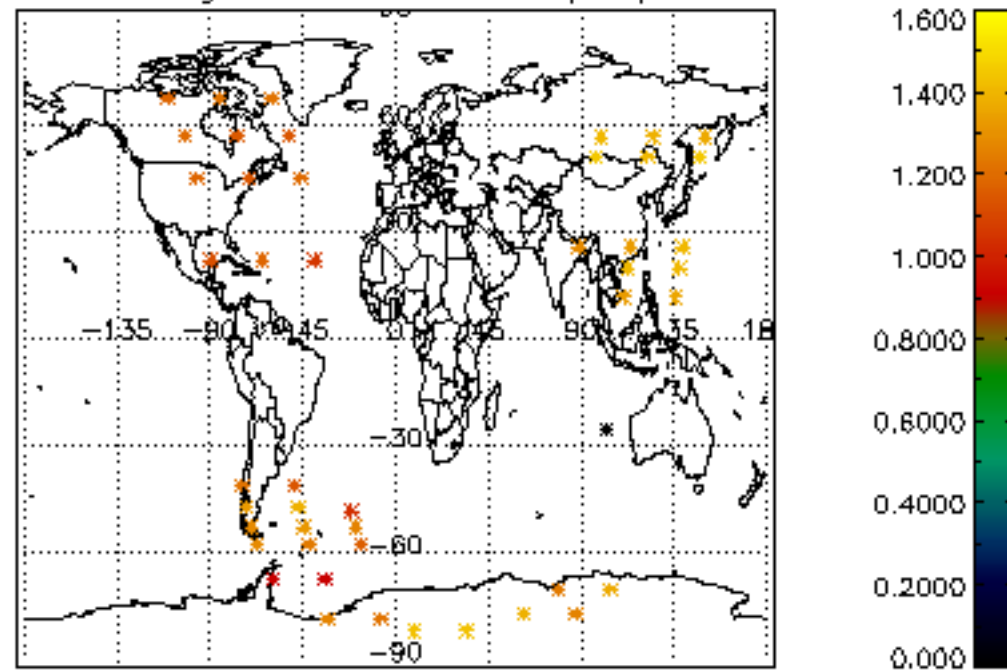




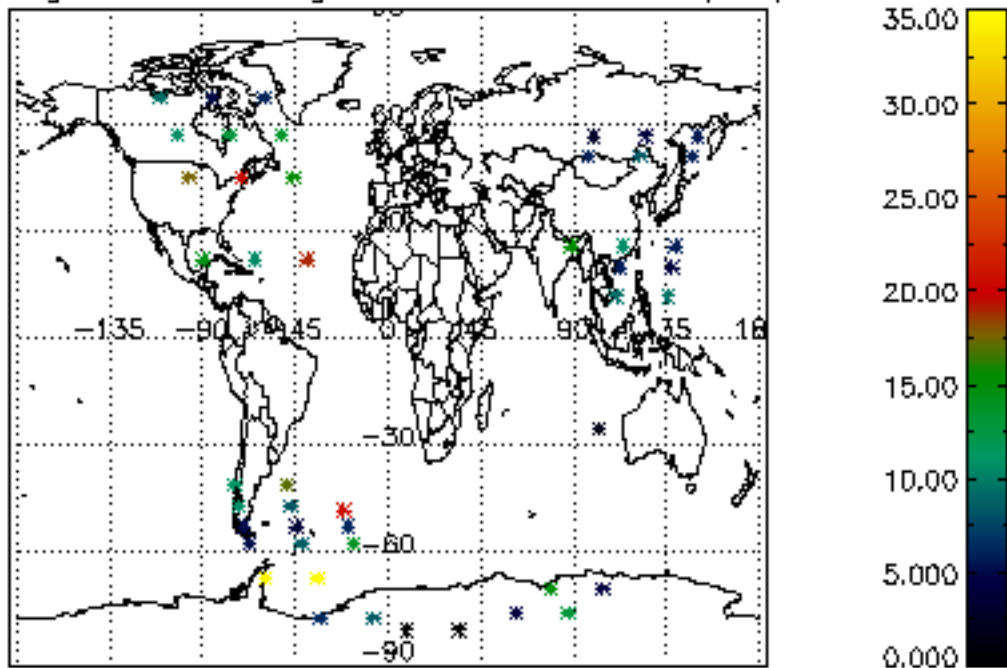
Percentage of cosmic ray hits per profile



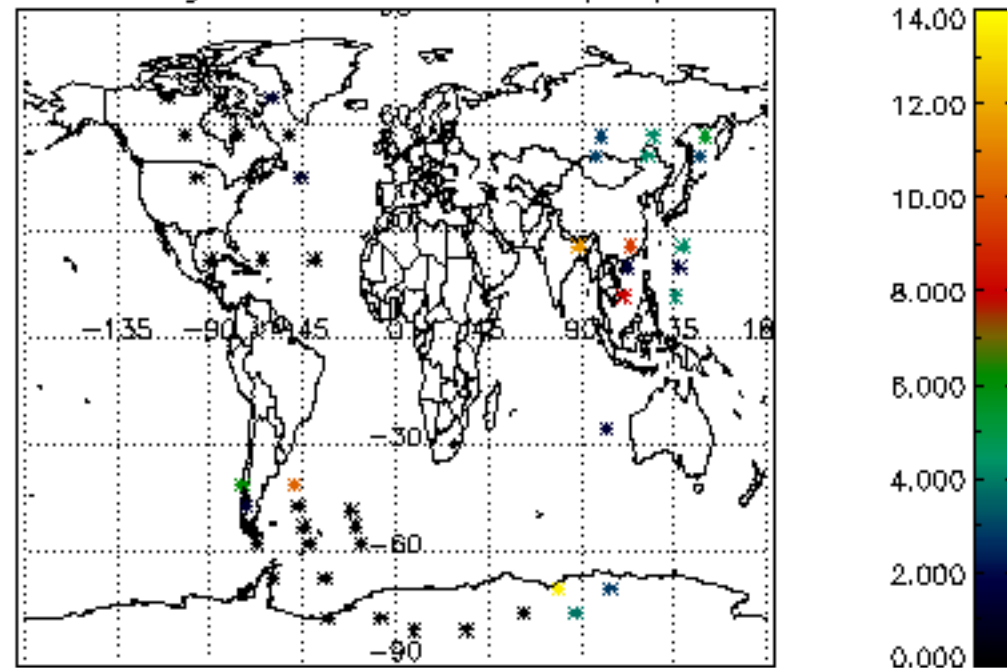
Percentage of datation errors per profile



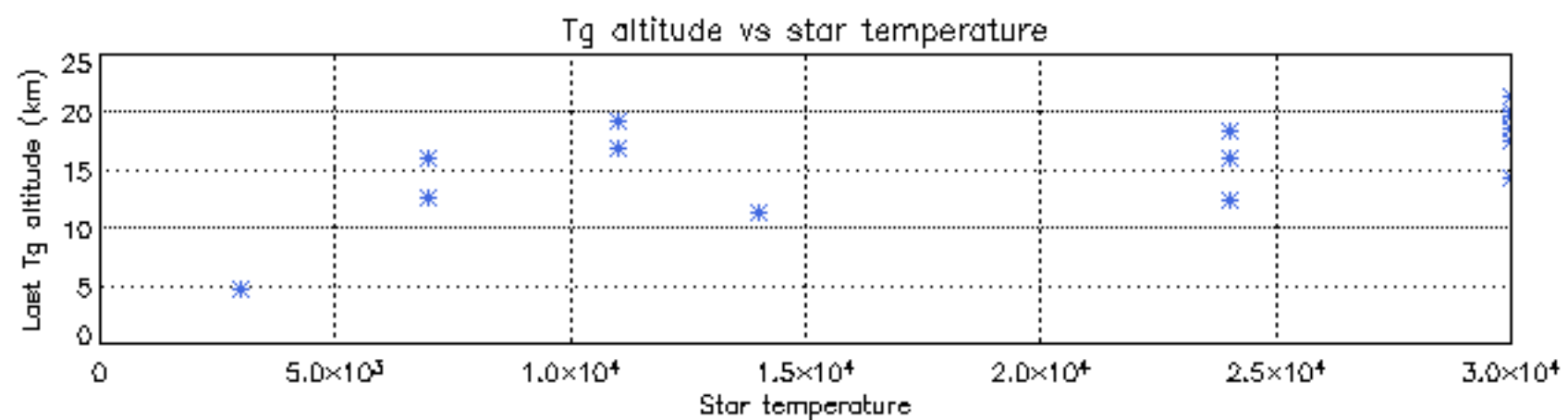
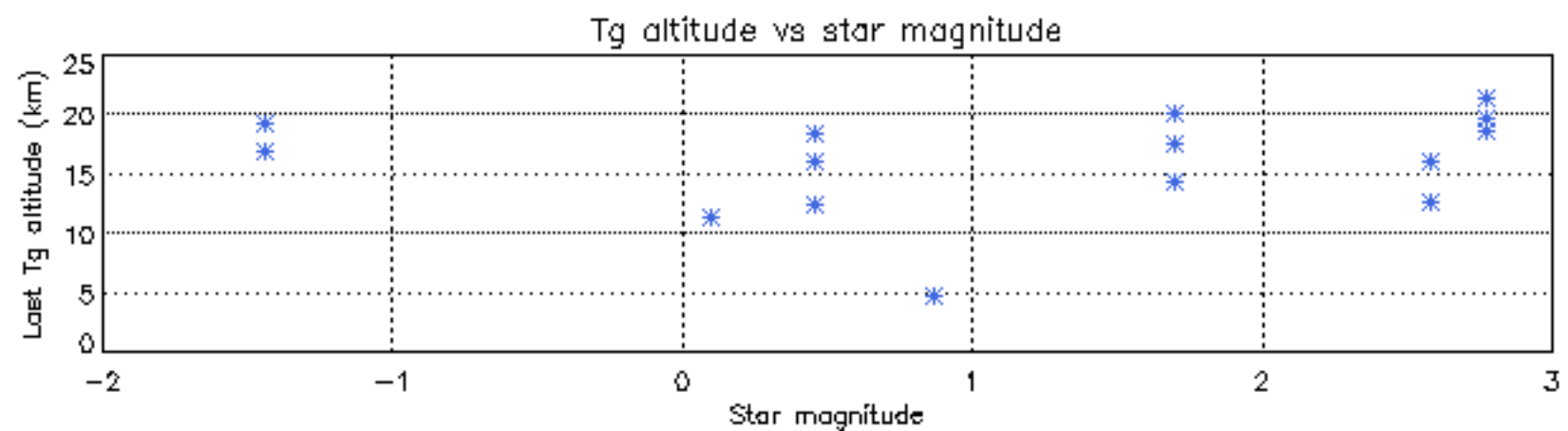
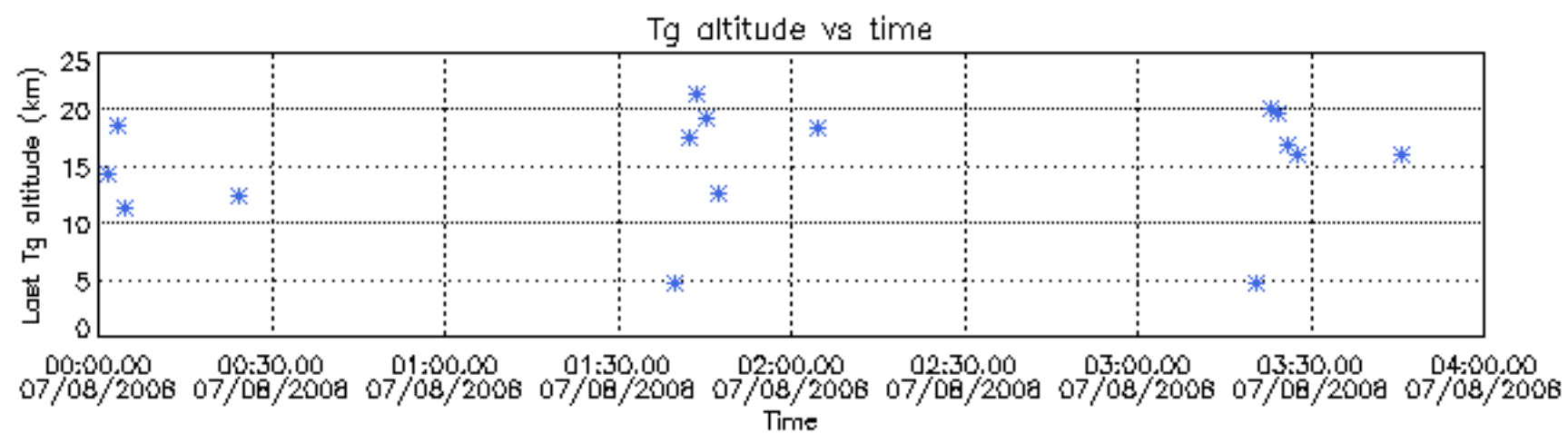
Percentage of star falling outside central band per profile



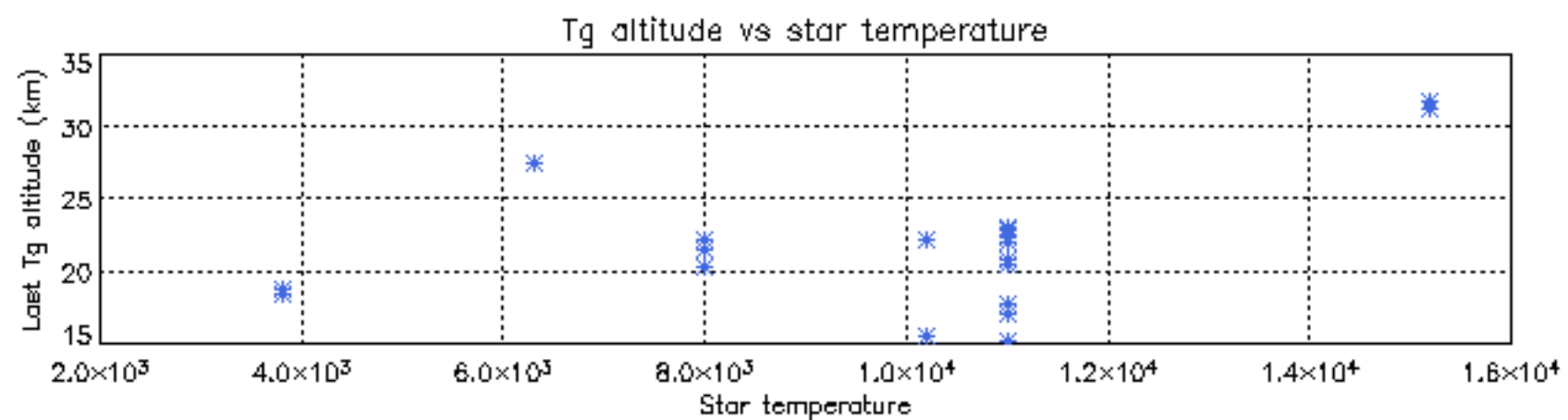
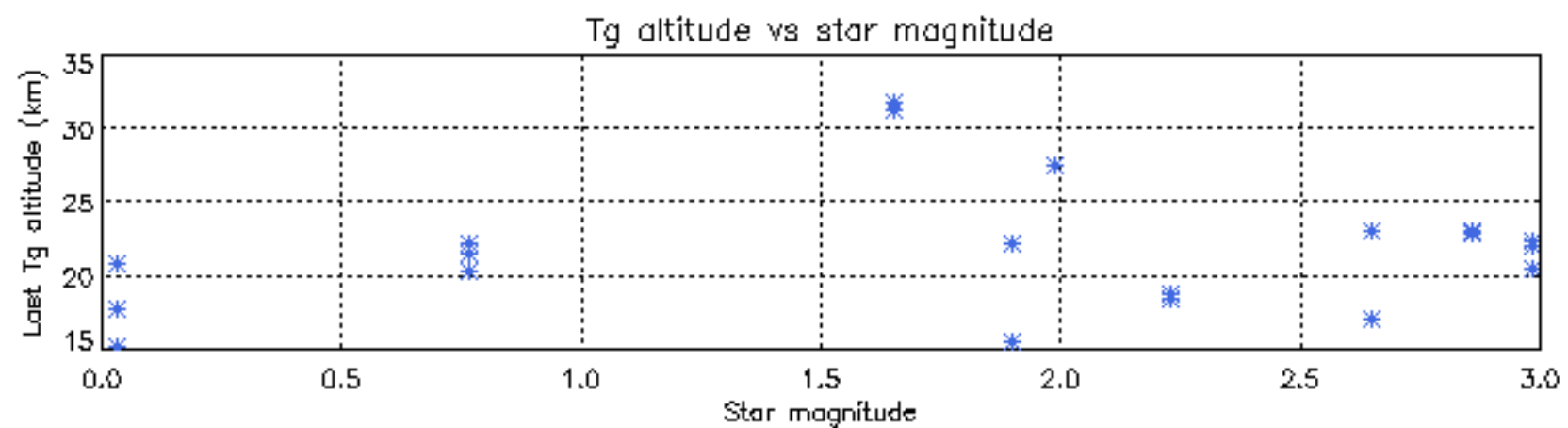
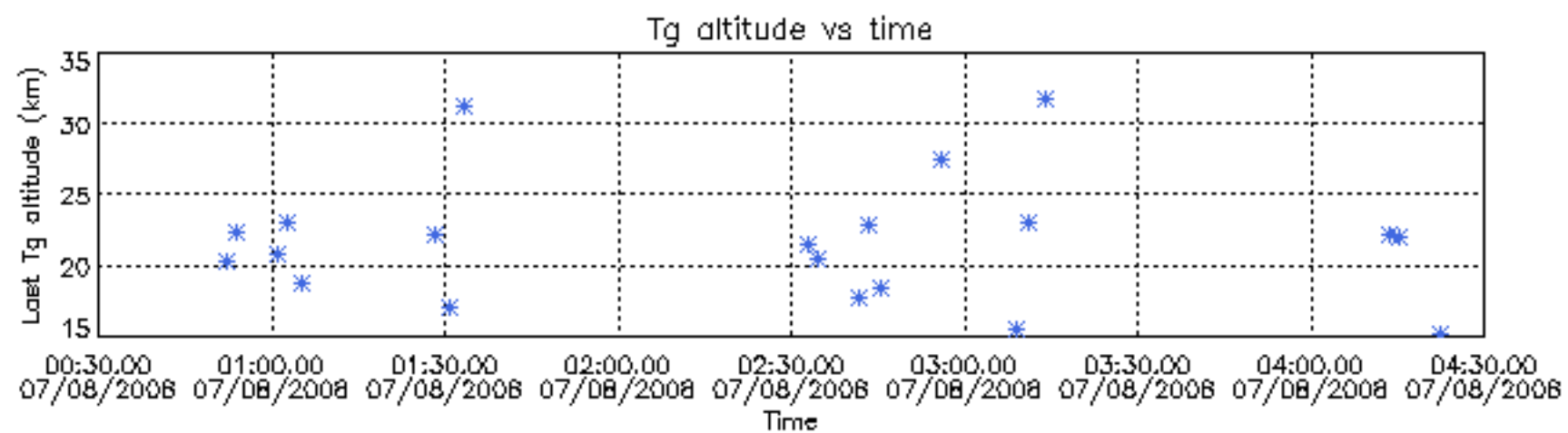
Percentage of saturation errors per profile

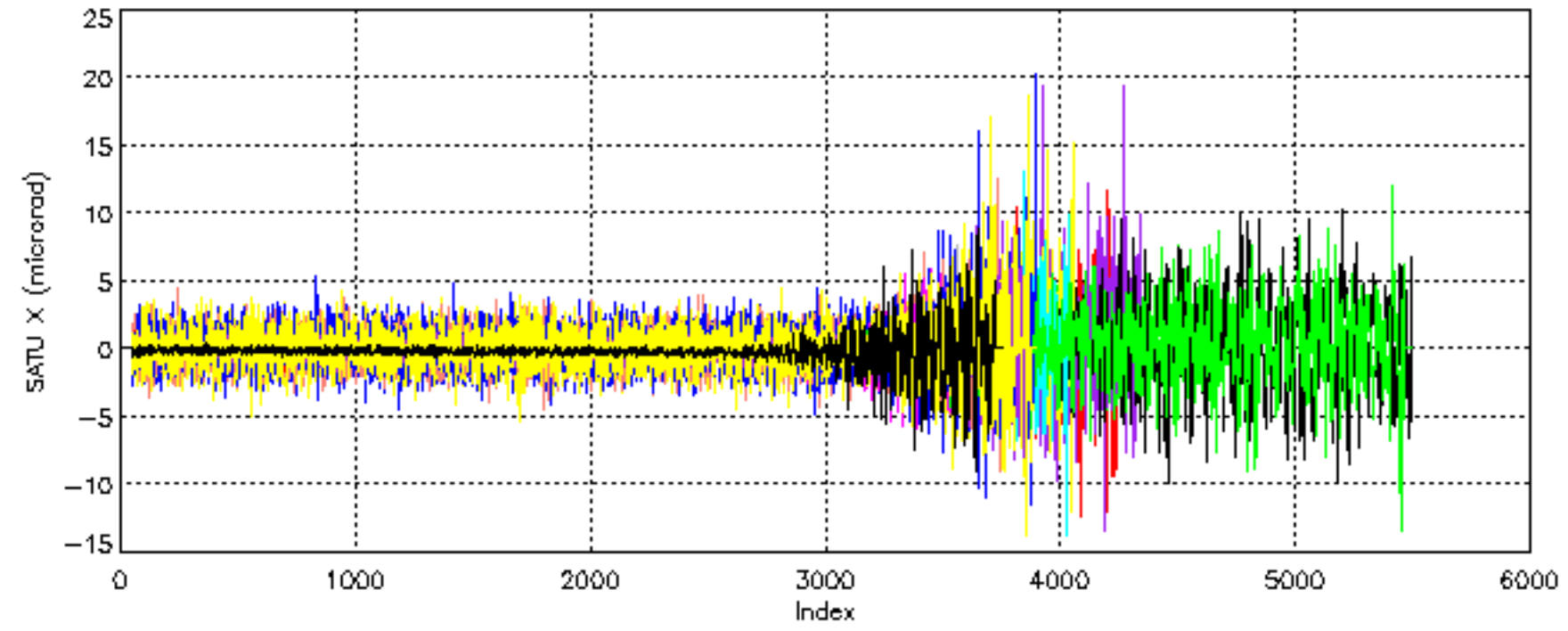


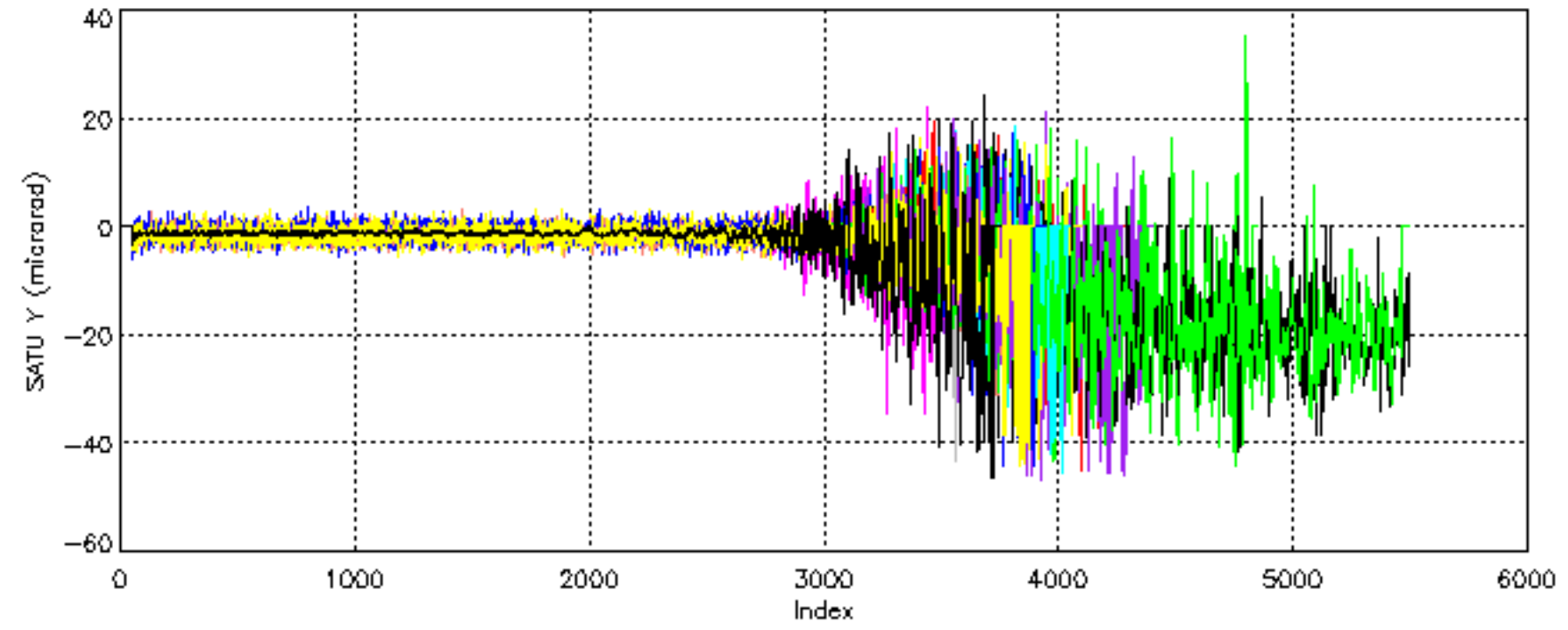
Tangent altitude at which the star is lost

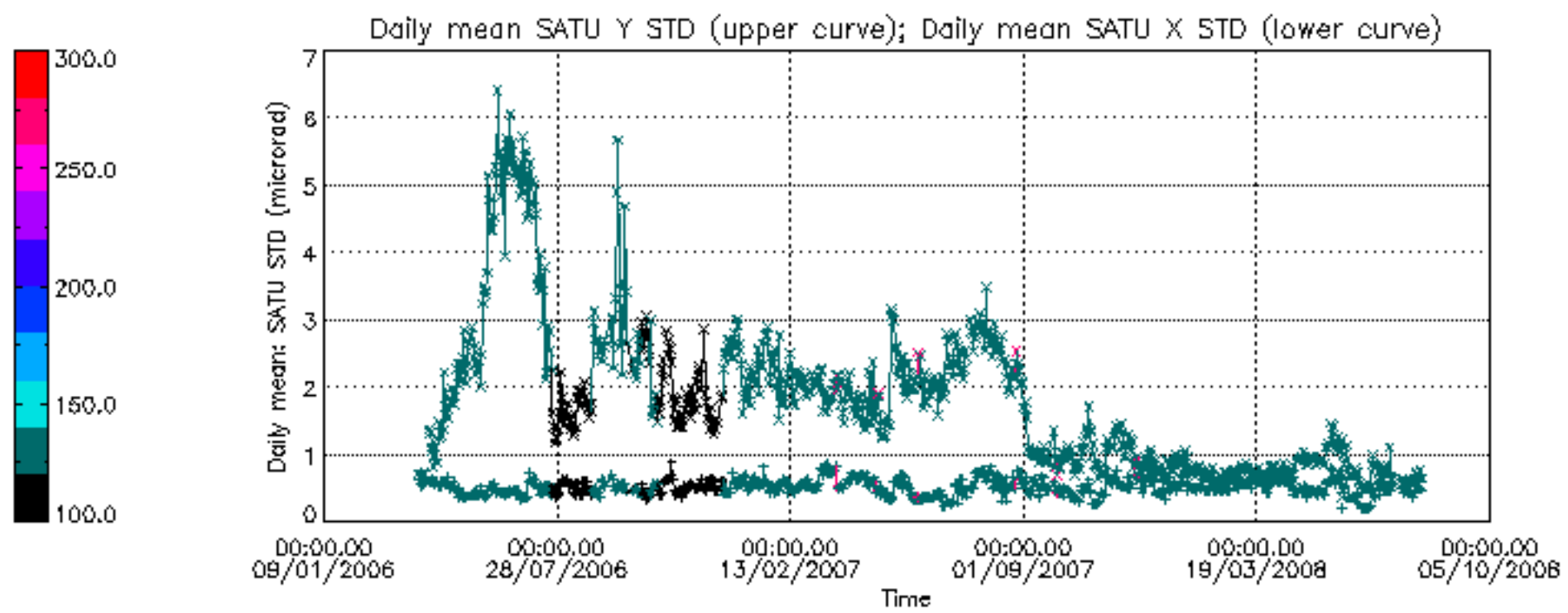


Tangent altitude at which the star is lost









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2; -730.5; 01-AUG-2008 01:34:25; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;33566
3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566
4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566
5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567
6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567
7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567
8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567
9; 2059.2; 01-AUG-2008 02:20:55; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33567
10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567
11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567
12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567
13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567
14; 3441.0; 01-AUG-2008 02:43:56; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33567

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2; -1689.0; 01-AUG-2008 02:59:02; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33567
3; -1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567
4; -1395.5; 01-AUG-2008 03:03:56; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33567
5; -1175.2; 01-AUG-2008 03:07:36; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;33567
6; -1009.5; 01-AUG-2008 03:10:22; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33567
7; -860.8; 01-AUG-2008 03:12:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;33567
8; -730.2; 01-AUG-2008 03:15:01; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33567
9; -298.6; 01-AUG-2008 03:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33567
10; -18.6; 01-AUG-2008 03:26:53; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33567
11; 310.9; 01-AUG-2008 03:32:22; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33568
12; 721.0; 01-AUG-2008 03:39:12; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33568
13; 922.4; 01-AUG-2008 03:42:34; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33568
14; 1110.6; 01-AUG-2008 03:45:42; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33568
15; 2059.2; 01-AUG-2008 04:01:31; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33568
16; 2145.4; 01-AUG-2008 04:02:57; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33568
17; 2570.4; 01-AUG-2008 04:10:02; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;33568
18; 2693.9; 01-AUG-2008 04:12:05; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33568
19; 3088.9; 01-AUG-2008 04:18:40; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33568
20; 3441.1; 01-AUG-2008 04:24:32; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33568

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2; -1688.9; 01-AUG-2008 04:39:39; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;33568
3; -1520.2; 01-AUG-2008 04:42:27; Dark ; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;33568
4; -1395.1; 01-AUG-2008 04:44:32; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;33568
5; -1175.0; 01-AUG-2008 04:48:12; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;33568
6; -1009.2; 01-AUG-2008 04:50:58; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;33568
7; -860.3; 01-AUG-2008 04:53:27; Dark ; 42.0; 7; 19Bet Ori ; 0.10; 14000;occ; 84; 0;33568
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9; -297.9; 01-AUG-2008 05:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33568
10; -17.6; 01-AUG-2008 05:07:30; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;33568
11; 311.6; 01-AUG-2008 05:12:59; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33569
12; 721.2; 01-AUG-2008 05:19:49; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33569
13; 922.9; 01-AUG-2008 05:23:10; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33569
14; 1111.1; 01-AUG-2008 05:26:19; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;33569
15; 2059.1; 01-AUG-2008 05:42:07; Bright; 37.5; 11; 53Alp Aql ; 0.76; 8000;occ; 75; 0;33569
16; 2145.5; 01-AUG-2008 05:43:33; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;33569
17; 2570.5; 01-AUG-2008 05:50:38; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;33569
18; 2693.8; 01-AUG-2008 05:52:41; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33569
19; 3088.5; 01-AUG-2008 05:59:16; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33569
20; 3441.0; 01-AUG-2008 06:05:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33569

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2; 2058.5; 01-AUG-2008 20:47:29; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33578
3; 2146.0; 01-AUG-2008 20:48:57; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33578
4; 2571.2; 01-AUG-2008 20:56:02; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;33578
5; 2691.9; 01-AUG-2008 20:58:03; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;33578
6; 3084.5; 01-AUG-2008 21:04:35; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33578
7; 3440.8; 01-AUG-2008 21:10:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33578
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9; 4348.4; 01-AUG-2008 21:25:39; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33578
10; 4517.4; 01-AUG-2008 21:28:28; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33578

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12; 4863.6; 01-AUG-2008 21:34:14; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33578
13; 5030.4; 01-AUG-2008 21:37:01; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33578
14; 5180.2; 01-AUG-2008 21:39:31; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;33578
15; 5310.0; 01-AUG-2008 21:41:41; Dark ; 15.0; 101; 11Alp Lep ; 2.58; 7000;occ; 30; 0;33578
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 4; -7.8; 01-AUG-2008 21:53:39; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33578
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 3;-1520.0; 01-AUG-2008 06:23:03; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33569
 4;-1395.1; 01-AUG-2008 06:25:08; Dark ; 39.0; 176; 23Zet Tau ; 3.02; 22000;occ; 78; 0;33569
 5;-1174.7; 01-AUG-2008 06:28:49; Dark ; 42.0; 14; 58Alp Ori ; 0.87; 3000;occ; 84; 0;33569
 6;-1008.8; 01-AUG-2008 06:31:35; Dark ; 37.0; 30; 46Eps Ori ; 1.69; 30000;occ; 74; 0;33569
 7; -859.8; 01-AUG-2008 06:34:04; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33569
 8; -729.3; 01-AUG-2008 06:36:14; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;33569
 9; -297.2; 01-AUG-2008 06:43:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33569
10; -16.7; 01-AUG-2008 06:48:07; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33569
11; 312.3; 01-AUG-2008 06:53:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;33570
12; 721.8; 01-AUG-2008 07:00:25; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33570
13; 923.5; 01-AUG-2008 07:03:47; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33570
14; 1111.6; 01-AUG-2008 07:06:55; Dark ; 43.5; 172; Gam Gru ; 3.00; 13100;occ; 87; 0;33570
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 2; 2145.5; 01-AUG-2008 07:24:09; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33570
 3; 2570.5; 01-AUG-2008 07:31:14; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;33570
 4; 2693.6; 01-AUG-2008 07:33:17; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33570
 5; 3087.9; 01-AUG-2008 07:39:51; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33570
 6; 3441.1; 01-AUG-2008 07:45:44; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33570
 7; 4201.2; 01-AUG-2008 07:58:25; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33570
 8; 4347.3; 01-AUG-2008 08:00:51; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33570
 9; 4516.0; 01-AUG-2008 08:03:39; Dark ; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;33570
10; 4641.1; 01-AUG-2008 08:05:44; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33570
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14; 5307.0; 01-AUG-2008 08:16:50; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;33570
15; 5739.5; 01-AUG-2008 08:24:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33570
16; 6020.3; 01-AUG-2008 08:28:44; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33570
17; 6348.9; 01-AUG-2008 08:34:12; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33570
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 3; 2570.6; 01-AUG-2008 09:11:50; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33571
 4; 2693.3; 01-AUG-2008 09:13:53; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33571
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7; 4220.7; 13-AUG-2008 13:23:31; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;33745
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2; -1317.0; 15-AUG-2008 02:24:59; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33767
3; -769.8; 15-AUG-2008 02:34:06; Dark ; 41.5; 1; 9Alp CMa ; -1.44; 11000;occ; 83; 0;33767
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5; -584.1; 15-AUG-2008 02:37:12; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;33767
6; -424.3; 15-AUG-2008 02:39:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33767
7; -174.4; 15-AUG-2008 02:44:02; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;33767
8; 449.2; 15-AUG-2008 02:54:25; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33768
9; 797.9; 15-AUG-2008 03:00:14; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;33768
10; 1011.1; 15-AUG-2008 03:03:47; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33768
11; 1190.1; 15-AUG-2008 03:06:46; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33768
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13; 2505.1; 15-AUG-2008 03:28:41; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33768
14; 2599.4; 15-AUG-2008 03:30:15; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33768
15; 2675.2; 15-AUG-2008 03:31:31; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;33768
16; 3019.2; 15-AUG-2008 03:37:15; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;33768
17; 3438.4; 15-AUG-2008 03:44:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33768

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2; -1316.8; 15-AUG-2008 04:05:35; Dark ; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;33768
3; -769.5; 15-AUG-2008 04:14:42; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;33768
4; -671.3; 15-AUG-2008 04:16:21; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33768
5; -584.0; 15-AUG-2008 04:17:48; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33768
6; -423.9; 15-AUG-2008 04:20:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33768
7; -174.1; 15-AUG-2008 04:24:38; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;33768
8; 449.8; 15-AUG-2008 04:35:02; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33769
9; 798.2; 15-AUG-2008 04:40:50; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33769
10; 1011.5; 15-AUG-2008 04:44:23; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33769
11; 1190.3; 15-AUG-2008 04:47:22; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33769
12; 2064.3; 15-AUG-2008 05:01:56; Bright; 37.0; 11; 53Alp Aql ; 0.76; 8000;occ; 74; 0;33769
13; 2504.8; 15-AUG-2008 05:09:17; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33769
14; 2599.2; 15-AUG-2008 05:10:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33769
15; 2675.1; 15-AUG-2008 05:12:07; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33769
16; 3018.9; 15-AUG-2008 05:17:51; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33769
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3; -769.2; 15-AUG-2008 05:55:19; Dark ; 44.0; 1; 9Alp CMa ; -1.44; 11000;occ; 88; 0;33769
4; -671.1; 15-AUG-2008 05:56:57; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33769
5; -583.8; 15-AUG-2008 05:58:24; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;33769
6; -423.5; 15-AUG-2008 06:01:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33769
7; -173.9; 15-AUG-2008 06:05:14; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33769
8; 450.5; 15-AUG-2008 06:15:38; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33770
9; 798.5; 15-AUG-2008 06:21:26; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;33770
10; 1011.8; 15-AUG-2008 06:25:00; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33770
11; 1190.7; 15-AUG-2008 06:27:59; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;33770
12; 2064.4; 15-AUG-2008 06:42:32; Bright; 36.0; 11; 53Alp Aql ; 0.76; 8000;occ; 72; 0;33770
13; 2504.6; 15-AUG-2008 06:49:53; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33770
14; 2599.0; 15-AUG-2008 06:51:27; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33770
15; 2675.0; 15-AUG-2008 06:52:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33770
16; 3018.6; 15-AUG-2008 06:58:27; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33770
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3; 2065.1; 15-AUG-2008 20:07:20; Bright; 35.5; 11; 53Alp Aql ; 0.76; 8000;occ; 71; 0;33778

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4; 2502.9; 15-AUG-2008 20:14:38; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;33778
5; 2598.2; 15-AUG-2008 20:16:14; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33778
6; 2675.1; 15-AUG-2008 20:17:31; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33778
7; 3016.3; 15-AUG-2008 20:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;33778
8; 3438.0; 15-AUG-2008 20:30:13; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33778
9; 4626.2; 15-AUG-2008 20:50:02; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33778
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3; -581.7; 15-AUG-2008 21:03:50; Dark ; 37.0; 23; 21Eps CMA ; 1.50; 26000;occ; 74; 0;33778
4; -419.9; 15-AUG-2008 21:06:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33778
5; -171.7; 15-AUG-2008 21:10:40; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33778
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2; 457.3; 15-AUG-2008 23:01:44; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33780
3; 801.6; 15-AUG-2008 23:07:29; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;33780
4; 1015.5; 15-AUG-2008 23:11:03; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;33780
5; 1252.6; 15-AUG-2008 23:15:00; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;33780
6; 1591.9; 15-AUG-2008 23:20:39; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33780
7; 2113.3; 15-AUG-2008 23:29:20; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;33780
8; 2502.4; 15-AUG-2008 23:35:50; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33780
9; 2597.8; 15-AUG-2008 23:37:25; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33780
10; 2694.8; 15-AUG-2008 23:39:02; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33780
11; 3015.8; 15-AUG-2008 23:44:23; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33780
12; 3437.9; 15-AUG-2008 23:51:25; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33780
13; 4193.4; 16-AUG-2008 00:04:01; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;33780
14; 4367.2; 16-AUG-2008 00:06:54; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33780
15; 4553.6; 16-AUG-2008 00:10:01; Dark ; 51.5; 28; 12Bet Tau ; 1.65; 15200;occ; 103; 0;33780
16; 4721.9; 16-AUG-2008 00:12:49; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33780
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18; 5124.8; 16-AUG-2008 00:19:32; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;33780
19; 5210.1; 16-AUG-2008 00:20:57; Dark ; 43.0; 125; 44Iot Ori ; 2.77; 30000;occ; 86; 0;33780
20; 5304.6; 16-AUG-2008 00:22:32; Dark ; 39.5; 7; 19Bet Ori ; 0.10; 14000;occ; 79; 0;33780
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4; -670.7; 15-AUG-2008 07:37:33; Dark ; 37.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 75; 0;33770
5; -583.5; 15-AUG-2008 07:39:00; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;33770
6; -423.1; 15-AUG-2008 07:41:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33770
7; -173.7; 15-AUG-2008 07:45:50; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;33770
8; 451.3; 15-AUG-2008 07:56:15; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33771
9; 798.8; 15-AUG-2008 08:02:03; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33771
10; 1012.2; 15-AUG-2008 08:05:36; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33771
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4; 2675.1; 15-AUG-2008 08:33:19; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;33771
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8; 4719.9; 15-AUG-2008 09:07:24; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;33771
9; 5267.3; 15-AUG-2008 09:16:31; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;33771
10; 5365.3; 15-AUG-2008 09:18:09; Dark ; 38.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 76; 0;33771
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13; 5862.4; 15-AUG-2008 09:26:26; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;33771
14; 6487.9; 15-AUG-2008 09:36:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33771
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16; 7048.6; 15-AUG-2008 09:46:13; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;33771
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3; 2598.8; 15-AUG-2008 10:12:39; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;33772

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11; 5452.9; 15-AUG-2008 11:00:13; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;33772
12; 5613.6; 15-AUG-2008 11:02:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33772
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15; 7049.3; 15-AUG-2008 13:07:25; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33773
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3; 2598.5; 15-AUG-2008 15:14:26; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33775
4; 2675.1; 15-AUG-2008 15:15:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33775
5; 3017.3; 15-AUG-2008 15:21:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33775
6; 3438.2; 15-AUG-2008 15:28:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33775
7; 4625.6; 15-AUG-2008 15:48:13; Dark ; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;33775
8; 4720.9; 15-AUG-2008 15:49:48; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33775
9; 5268.7; 15-AUG-2008 15:58:56; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33775
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 9; 4721.1; 15-AUG-2008 17:30:25; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33776
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 4; 2503.2; 15-AUG-2008 18:34:03; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33777
 5; 2598.2; 15-AUG-2008 18:35:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33777
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 15; 5864.0; 15-AUG-2008 19:30:03; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;33777
 16; 6492.0; 15-AUG-2008 19:40:31; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33777
 17; 6837.0; 15-AUG-2008 19:46:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33777
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 5; 458.0; 16-AUG-2008 00:42:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33781
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 7; 1015.8; 16-AUG-2008 00:51:39; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33781
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 9; 1592.0; 16-AUG-2008 01:01:15; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;33781
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 17; 4367.4; 16-AUG-2008 01:47:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33781
 18; 4553.7; 16-AUG-2008 01:50:37; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33781
 19; 4722.2; 16-AUG-2008 01:53:25; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;33781
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 7; 458.8; 16-AUG-2008 02:22:58; Dark ; 54.5; 9; Alp Eri ; 0.45; 24000;occ; 109; 0;33782
 8; 803.3; 16-AUG-2008 02:28:42; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33782
 9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33782
 10; 1253.4; 16-AUG-2008 02:36:12; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33782
 11; 1592.3; 16-AUG-2008 02:41:51; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33782
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14; 1016.8; 16-AUG-2008 04:12:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33783
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13; 4725.4; 16-AUG-2008 22:00:40; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33793
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4; 2107.0; 17-AUG-2008 12:22:24; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33802
5; 2498.6; 17-AUG-2008 12:28:56; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33802
6; 2595.9; 17-AUG-2008 12:30:33; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33802
7; 2690.9; 17-AUG-2008 12:32:08; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;33802
8; 3010.3; 17-AUG-2008 12:37:28; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33802
9; 3437.9; 17-AUG-2008 12:44:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33802
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13; 4727.7; 17-AUG-2008 13:06:05; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33802
14; 4942.8; 17-AUG-2008 13:09:40; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;33802
15; 5138.8; 17-AUG-2008 13:12:56; Dark ; 49.5; 30; 46Eps Ori ; 1.69; 30000;occ; 99; 0;33802
16; 5224.8; 17-AUG-2008 13:14:22; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33802
17; 5323.0; 17-AUG-2008 13:16:00; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;33802
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4;	1917.2;	17-AUG-2008	15:40:26;	Bright;	47.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	95;	0;33804	
5;	2106.4;	17-AUG-2008	15:43:36;	Bright;	42.5;	61;	8Eps Peg	;	2.10;	3900;occ;	85;	0;33804	
6;	2498.2;	17-AUG-2008	15:50:07;	Bright;	38.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	77;	0;33804	
7;	2595.7;	17-AUG-2008	15:51:45;	Bright;	36.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	73;	0;33804	
8;	2690.5;	17-AUG-2008	15:53:20;	Bright;	38.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	77;	0;33804	
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22;	6510.4;	17-AUG-2008	16:57:00;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;33804
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12;	4191.3;	17-AUG-2008	17:58:56;	Bright;	48.0;	6;	13Alp Aur	;	0.08;	3400;occ;	96;	0;33805	
13;	4369.3;	17-AUG-2008	18:01:54;	Bright;	40.0;	107;	37The Aur	;	2.65;	11000;occ;	80;	0;33805	
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4;	1799.6;	17-AUG-2008	18:59:41;	Bright;	40.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	81;	0;33806	
5;	1916.8;	17-AUG-2008	19:01:38;	Bright;	46.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	92;	0;33806	
6;	2105.9;	17-AUG-2008	19:04:47;	Bright;	44.0;	61;	8Eps Peg	;	2.10;	3900;occ;	88;	0;33806	
7;	2497.9;	17-AUG-2008	19:11:19;	Bright;	38.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	77;	0;33806	
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11;	3437.7;	17-AUG-2008	19:26:59;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;33806	
12;	4190.9;	17-AUG-2008	19:39:32;	Bright;	47.5;	6;	13Alp Aur	;	0.08;	3400;occ;	95;	0;33806	
13;	4369.2;	17-AUG-2008	19:42:30;	Bright;	40.5;	107;	37The Aur	;	2.65;	11000;occ;	81;	0;33806	
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 7; 1275.6; 20-AUG-2008 00:30:06; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33838
 8; 1598.5; 20-AUG-2008 00:35:29; Bright; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;33838
 9; 1799.4; 20-AUG-2008 00:38:50; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;33838
 10; 1910.6; 20-AUG-2008 00:40:41; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33838
 11; 2097.8; 20-AUG-2008 00:43:48; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;33838
 12; 2493.1; 20-AUG-2008 00:50:24; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33838
 13; 2593.4; 20-AUG-2008 00:52:04; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33838
 14; 2685.3; 20-AUG-2008 00:53:36; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;33838
 15; 3002.0; 20-AUG-2008 00:58:53; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33838
 16; 3437.1; 20-AUG-2008 01:06:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33838
 17; 4187.4; 20-AUG-2008 01:18:38; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;33838
 18; 4371.3; 20-AUG-2008 01:21:42; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;33838
 19; 4565.5; 20-AUG-2008 01:24:56; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33838
 20; 4640.2; 20-AUG-2008 01:26:11; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;33838
 21; 4737.2; 20-AUG-2008 01:27:48; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33838
 22; 4960.2; 20-AUG-2008 01:31:31; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;33838
 23; 5045.8; 20-AUG-2008 01:32:56; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33838
 24; 5163.0; 20-AUG-2008 01:34:54; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33838

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1; -1847.2; 19-AUG-2008 06:52:04; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;33827
 2; -1665.1; 19-AUG-2008 06:55:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33827
 3; -1472.8; 19-AUG-2008 06:58:19; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33827
 4; -1301.7; 19-AUG-2008 07:01:10; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;33827
 5; -1081.1; 19-AUG-2008 07:04:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33827

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8; -793.5; 19-AUG-2008 07:09:38; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33827
9; -691.0; 19-AUG-2008 07:11:20; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;33827
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11; -412.7; 19-AUG-2008 07:15:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33827
12; 269.0; 19-AUG-2008 07:27:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;33828
13; 489.9; 19-AUG-2008 07:31:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33828
14; 840.7; 19-AUG-2008 07:36:52; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;33828
15; 1032.7; 19-AUG-2008 07:40:04; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33828
16; 1271.9; 19-AUG-2008 07:44:03; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33828
17; 1597.6; 19-AUG-2008 07:49:29; Bright; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;33828

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1; 1799.4; 19-AUG-2008 07:52:51; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33828
2; 1912.6; 19-AUG-2008 07:54:44; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33828
3; 2100.2; 19-AUG-2008 07:57:52; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33828
4; 2494.5; 19-AUG-2008 08:04:26; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33828
5; 2594.1; 19-AUG-2008 08:06:05; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33828
6; 2686.9; 19-AUG-2008 08:07:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33828
7; 3004.3; 19-AUG-2008 08:12:56; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33828
8; 3437.5; 19-AUG-2008 08:20:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33828
9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828
10; 4370.9; 19-AUG-2008 08:35:42; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33828
11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33828
20; 6306.1; 19-AUG-2008 09:07:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33828
21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829
7; 3004.0; 19-AUG-2008 09:53:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33829
8; 3437.5; 19-AUG-2008 10:00:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33829
9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829
10; 4370.9; 19-AUG-2008 10:16:18; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33829
11; 4563.6; 19-AUG-2008 10:19:31; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33829
12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829
13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829
14; 5039.7; 19-AUG-2008 10:27:27; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;33829
15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829
20; 6307.3; 19-AUG-2008 10:48:35; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33829
21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829
22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830

3;	2099.6;	19-AUG-2008	11:19:03;	Bright;	41.0;	61;	8Eps Peg	; 2.10;	3900;occ;	82;	0;33830
4;	2494.1;	19-AUG-2008	11:25:37;	Bright;	36.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	72;	0;33830
5;	2593.9;	19-AUG-2008	11:27:17;	Bright;	37.0;	66;	37Gam Cyg	; 2.21;	5900;occ;	74;	0;33830
6;	2686.6;	19-AUG-2008	11:28:50;	Bright;	38.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	77;	0;33830
7;	3003.8;	19-AUG-2008	11:34:07;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33830
8;	3437.2;	19-AUG-2008	11:41:20;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33830
9;	4188.3;	19-AUG-2008	11:53:51;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;33830
10;	4371.0;	19-AUG-2008	11:56:54;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;occ;	79;	0;33830
11;	4563.7;	19-AUG-2008	12:00:07;	Dark	; 52.0;	28;	12Bet Tau	; 1.65;	15200;occ;	104;	0;33830
12;	4735.0;	19-AUG-2008	12:02:58;	Dark	; 40.0;	44;	24Gam Gem	; 1.93;	11000;occ;	80;	0;33830
13;	4956.2;	19-AUG-2008	12:06:39;	Dark	; 62.0;	14;	58Alp Ori	; 0.87;	3000;occ;	124;	0;33830
14;	5040.3;	19-AUG-2008	12:08:03;	Dark	; 56.0;	27;	24Gam Ori	; 1.64;	26000;occ;	112;	0;33830
15;	5157.4;	19-AUG-2008	12:10:01;	Dark	; 53.0;	30;	46Eps Ori	; 1.69;	30000;occ;	106;	0;33830
16;	5244.6;	19-AUG-2008	12:11:28;	Dark	; 47.5;	125;	44Iot Ori	; 2.77;	30000;occ;	95;	0;33830
17;	5347.7;	19-AUG-2008	12:13:11;	Dark	; 58.0;	7;	19Bet Ori	; 0.10;	14000;occ;	116;	0;33830
18;	5452.6;	19-AUG-2008	12:14:56;	Dark	; 47.0;	101;	11Alp Lep	; 2.58;	7000;occ;	94;	0;33830
19;	5625.6;	19-AUG-2008	12:17:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;33830
20;	6308.4;	19-AUG-2008	12:29:12;	Dark	; 52.0;	157;	The1Eri	; 2.91;	9300;occ;	104;	0;33830
21;	6527.9;	19-AUG-2008	12:32:51;	Dark	; 46.5;	9;	Alp Eri	; 0.45;	24000;occ;	93;	0;33830
22;	6878.9;	19-AUG-2008	12:38:42;	Dark	; 52.5;	84;	Alp Phe	; 2.40;	4500;occ;	105;	0;33830
23;	7069.6;	19-AUG-2008	12:41:53;	Dark	; 39.0;	31;	Alp Gru	; 1.73;	15200;occ;	78;	0;33830
24;	7308.9;	19-AUG-2008	12:45:52;	Dark	; 54.0;	18;	24Alp PsA	; 1.17;	9700;occ;	108;	0;33830
25;	7633.8;	19-AUG-2008	12:51:17;	Bright;	41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;33830
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2;	1799.4;	19-AUG-2008	12:54:38;	Bright;	40.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	80;	0;33831
3;	1912.0;	19-AUG-2008	12:56:31;	Bright;	45.0;	162;	34Alp Aqr	; 2.94;	5350;occ;	90;	0;33831
4;	2099.4;	19-AUG-2008	12:59:38;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;33831
5;	2494.1;	19-AUG-2008	13:06:13;	Bright;	38.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	77;	0;33831
6;	2593.8;	19-AUG-2008	13:07:53;	Bright;	37.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	75;	0;33831
7;	2686.5;	19-AUG-2008	13:09:26;	Bright;	35.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	70;	0;33831
8;	3003.5;	19-AUG-2008	13:14:43;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33831
9;	3437.5;	19-AUG-2008	13:21:56;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33831
10;	4188.2;	19-AUG-2008	13:34:27;	Bright;	48.5;	6;	13Alp Aur	; 0.08;	3400;occ;	97;	0;33831
11;	4371.0;	19-AUG-2008	13:37:30;	Bright;	40.5;	107;	37The Aur	; 2.65;	11000;occ;	81;	0;33831
12;	4564.0;	19-AUG-2008	13:40:43;	Dark	; 55.5;	28;	12Bet Tau	; 1.65;	15200;occ;	111;	0;33831
13;	4735.5;	19-AUG-2008	13:43:35;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;33831
14;	4956.7;	19-AUG-2008	13:47:16;	Dark	; 58.5;	14;	58Alp Ori	; 0.87;	3000;occ;	117;	0;33831
15;	5041.1;	19-AUG-2008	13:48:40;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;33831
16;	5158.2;	19-AUG-2008	13:50:37;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;33831
17;	5245.4;	19-AUG-2008	13:52:04;	Dark	; 48.0;	125;	44Iot Ori	; 2.77;	30000;occ;	96;	0;33831
18;	5348.6;	19-AUG-2008	13:53:48;	Dark	; 59.5;	7;	19Bet Ori	; 0.10;	14000;occ;	119;	0;33831
19;	5453.4;	19-AUG-2008	13:55:32;	Dark	; 48.0;	101;	11Alp Lep	; 2.58;	7000;occ;	96;	0;33831
20;	5626.5;	19-AUG-2008	13:58:25;	Dark	; 59.0;	0;		; 0.00;	0;occ;	118;	0;33831
21;	6309.7;	19-AUG-2008	14:09:49;	Dark	; 53.5;	157;	The1Eri	; 2.91;	9300;occ;	107;	0;33831
22;	6528.6;	19-AUG-2008	14:13:28;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;33831
23;	6879.7;	19-AUG-2008	14:19:19;	Dark	; 54.0;	84;	Alp Phe	; 2.40;	4500;occ;	108;	0;33831
24;	7070.0;	19-AUG-2008	14:22:29;	Dark	; 39.5;	31;	Alp Gru	; 1.73;	15200;occ;	79;	0;33831
25;	7309.3;	19-AUG-2008	14:26:28;	Dark	; 52.5;	18;	24Alp PsA	; 1.17;	9700;occ;	105;	0;33831
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2;	1799.5;	19-AUG-2008	14:35:14;	Bright;	40.5;	154;	22Bet Aqr	; 2.90;	5700;occ;	81;	0;33832
3;	1911.9;	19-AUG-2008	14:37:07;	Bright;	45.5;	162;	34Alp Aqr	; 2.94;	5350;occ;	91;	0;33832
4;	2099.3;	19-AUG-2008	14:40:14;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;33832
5;	2494.0;	19-AUG-2008	14:46:49;	Bright;	37.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	75;	0;33832
6;	2593.8;	19-AUG-2008	14:48:29;	Bright;	35.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	71;	0;33832
7;	2686.4;	19-AUG-2008	14:50:01;	Bright;	37.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	75;	0;33832
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8; 2592.7; 21-AUG-2008 20:27:37; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33864
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11; 3436.7; 21-AUG-2008 20:41:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33864
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 17; 2996.2; 21-AUG-2008 22:14:57; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33865
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 13; 1042.3; 21-AUG-2008 08:17:35; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33857
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 12; 4743.0; 21-AUG-2008 10:59:52; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;33858
 13; 4970.5; 21-AUG-2008 11:03:39; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;33858
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11; 7035.4; 23-AUG-2008 12:15:26; Dark ; 92.5; 31; Alp Gru ; 1.73; 15200;occ; 185; 0;33887
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5; 2634.1; 23-AUG-2008 12:42:41; Bright; 84.0; 144; 18Del Cyg ; 2.86; 11000;occ; 168; 0;33888
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7; 3384.7; 23-AUG-2008 12:55:11; Bright; 88.0; 49; 1Alp UMi ; 1.99; 6300;occ; 176; 0;33888
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3; 2030.7; 23-AUG-2008 14:13:13; Bright; 98.5; 61; 8Eps Peg ; 2.10; 3900;occ; 197; 0;33889
4; 2437.9; 23-AUG-2008 14:20:00; Bright; 85.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 171; 0;33889
5; 2634.4; 23-AUG-2008 14:23:17; Bright; 84.0; 144; 18Del Cyg ; 2.86; 11000;occ; 168; 0;33889
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4; 1903.4; 23-AUG-2008 15:51:42; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;33890
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7; 2592.7; 23-AUG-2008 16:03:11; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;33890
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3; 1605.0; 23-AUG-2008 17:27:19; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;33891
4; 1800.6; 23-AUG-2008 17:30:35; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;33891
5; 1903.4; 23-AUG-2008 17:32:18; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;33891
6; 2087.4; 23-AUG-2008 17:35:22; Bright; 41.5; 61; 8Eps Peg ; 2.10; 3900;occ; 83; 0;33891

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13; 4436.2; 23-AUG-2008 19:55:06; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;33892
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7; 535.1; 24-AUG-2008 01:32:29; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33896
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 13; 4599.1; 27-AUG-2008 19:31:57; Bright; 44.0; 170; 27Eps Gem ; 3.00; 9700;occ; 88; 0;33949
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 4; 2486.1; 28-AUG-2008 10:02:07; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33958
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