

GOMOS Daily Report 27-JUN-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	29JUN2008 05:32:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (27JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

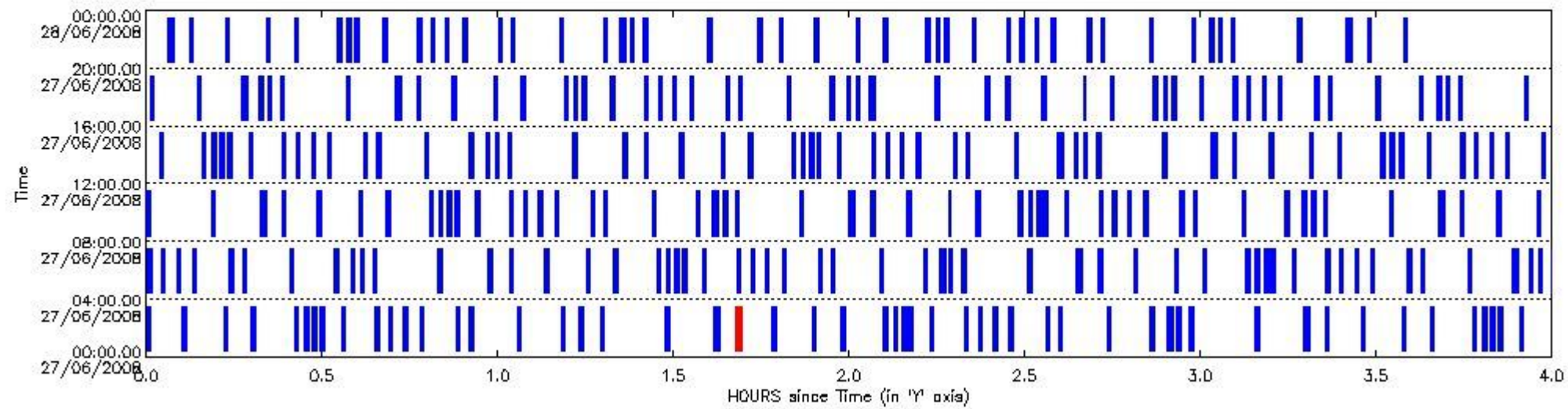
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

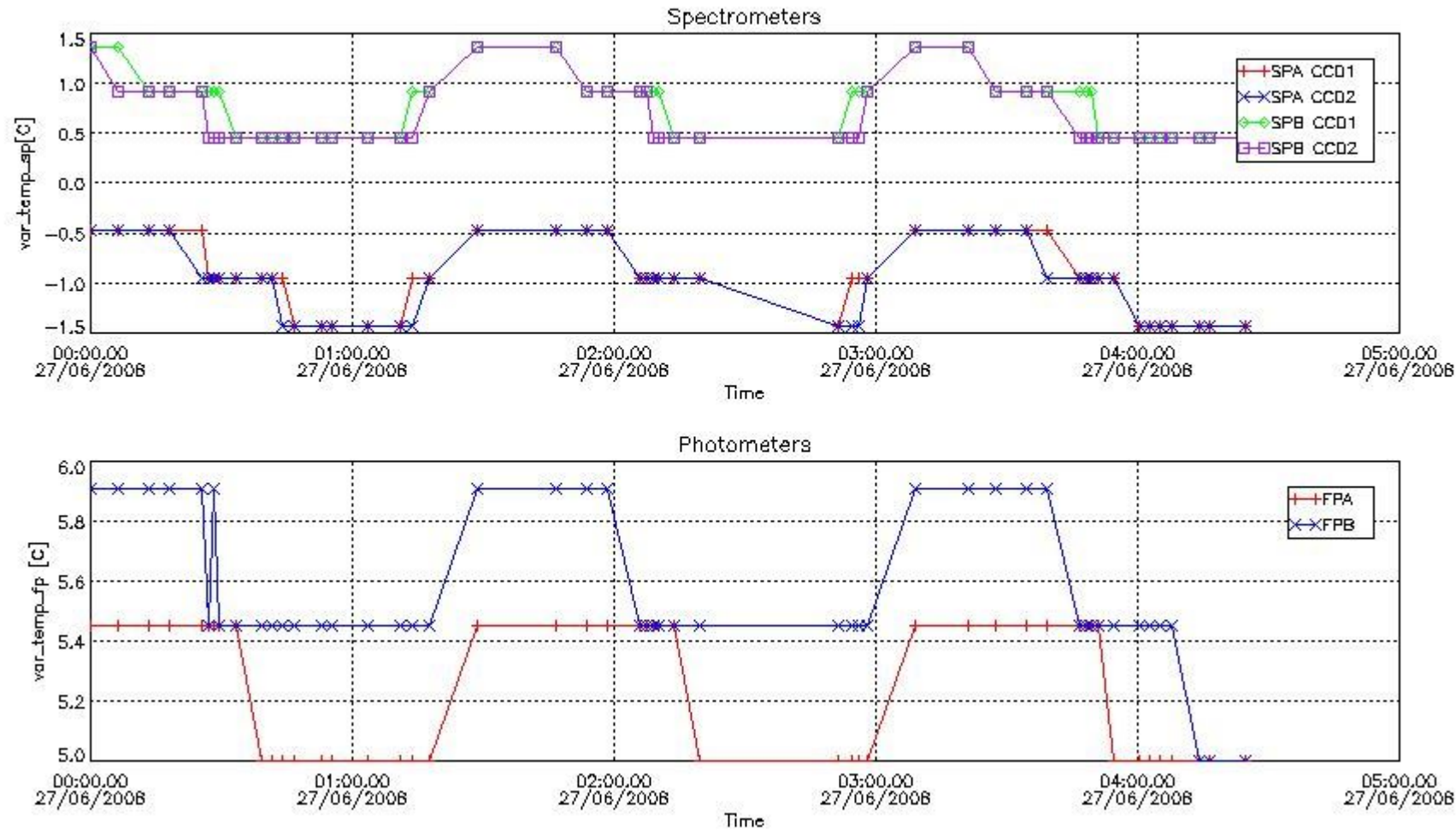
UTC start time	Star name	Star ID	Orbit
27-JUN-2008 01:40:40	The1Eri	157	33065

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_1PNPDE20080627_000007_000000392069_00445_33064_0668.N1	27-JUN-2008 00:00:07	Dark	38.500	157	The1Eri	2.9060	9300.0	77	33064	No
2	GOM_TRA_1PNPDE20080627_000610_000000422069_00446_33065_0669.N1	27-JUN-2008 00:06:10	Dark	41.500	9	Alp Eri	0.45300	24000.	83	33065	No
3	GOM_TRA_1PNPDE20080627_001313_000000332069_00446_33065_0670.N1	27-JUN-2008 00:13:13	Straylight	33.000	63	Bet Gru	2.1500	2800.0	66	33065	No
4	GOM_TRA_1PNPDE20080627_001758_000000402069_00446_33065_0671.N1	27-JUN-2008 00:17:58	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	33065	No
5	GOM_TRA_1PNPDE20080627_002519_000000422069_00446_33065_0672.N1	27-JUN-2008 00:25:19	Twilight_stray	41.500	40	The Sco	1.8590	7100.0	83	33065	No
6	GOM_TRA_1PNPDE20080627_002659_000000412069_00446_33065_0673.N1	27-JUN-2008 00:26:59	Twilight_stray	41.000	25	35Lam Sco	1.6200	28000.	82	33065	No
7	GOM_TRA_1PNPDE20080627_002822_000000472069_00446_33065_0674.N1	27-JUN-2008 00:28:22	Bright	46.500	116	19Del Sgr	2.7000	4100.0	93	33065	No
8	GOM_TRA_1PNPDE20080627_002936_000000432069_00446_33065_0675.N1	27-JUN-2008 00:29:36	Bright	43.000	137	22Lam Sgr	2.8240	4400.0	86	33065	No
9	GOM_TRA_1PNPDE20080627_003314_000000362069_00446_33065_0676.N1	27-JUN-2008 00:33:14	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	33065	No
10	GOM_TRA_1PNPDE20080627_003903_000000382069_00446_33065_0677.N1	27-JUN-2008 00:39:03	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	33065	No

11	GOM_TRA_1PNPDE20080627_004125_000000382069_00446_33065_0678.N1	27-JUN-2008 00:41:25	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	33065	No
12	GOM_TRA_1PNPDE20080627_004357_000000362069_00446_33065_0679.N1	27-JUN-2008 00:43:57	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	33065	No
13	GOM_TRA_1PNPDE20080627_004645_000000372069_00446_33065_0680.N1	27-JUN-2008 00:46:45	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	33065	No
14	GOM_TRA_1PNPDE20080627_005258_000000382069_00446_33065_0681.N1	27-JUN-2008 00:52:58	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	33065	No
15	GOM_TRA_1PNPDE20080627_005510_000000372069_00446_33065_0682.N1	27-JUN-2008 00:55:10	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	33065	No
16	GOM_TRA_1PNPDE20080627_010325_000000362069_00446_33065_0683.N1	27-JUN-2008 01:03:25	Bright	35.500	49	1Alp UMI	1.9900	6300.0	71	33065	No
17	GOM_TRA_1PNPDE20080627_011051_000000402069_00446_33065_0684.N1	27-JUN-2008 01:10:51	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	33065	No
18	GOM_TRA_1PNPDE20080627_011344_000000552069_00446_33065_0685.N1	27-JUN-2008 01:13:44	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	33065	No
19	GOM_TRA_1PNPDE20080627_011731_000000392069_00446_33065_0686.N1	27-JUN-2008 01:17:31	Bright	38.500	79	26Bet Per	2.3100	13100.	77	33065	No
20	GOM_TRA_1PNPDE20080627_012836_000000452069_00446_33065_0687.N1	27-JUN-2008 01:28:36	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	33065	No
21	GOM_TRA_1PNPDE20080627_014646_000000432069_00447_33066_0813.N1	27-JUN-2008 01:46:46	Dark	42.500	9	Alp Eri	0.45300	24000.	85	33066	No
22	GOM_TRA_1PNPDE20080627_015351_000000322069_00447_33066_0814.N1	27-JUN-2008 01:53:51	Straylight	32.000	63	Bet Gru	2.1500	2800.0	64	33066	No
23	GOM_TRA_1PNPDE20080627_015834_000000402069_00447_33066_0815.N1	27-JUN-2008 01:58:34	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33066	No
24	GOM_TRA_1PNPDE20080627_020555_000000422069_00447_33066_0816.N1	27-JUN-2008 02:05:55	Twilight	41.500	40	The Sco	1.8590	7100.0	83	33066	No
25	GOM_TRA_1PNPDE20080627_020735_000000412069_00447_33066_0817.N1	27-JUN-2008 02:07:35	Twilight	41.000	25	35Lam Sco	1.6200	28000.	82	33066	No
26	GOM_TRA_1PNPDE20080627_020858_000000562069_00447_33066_0818.N1	27-JUN-2008 02:08:58	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	33066	No
27	GOM_TRA_1PNPDE20080627_021012_000000432069_00447_33066_0819.N1	27-JUN-2008 02:10:12	Bright	43.000	137	22Lam Sgr	2.8240	4400.0	86	33066	No
28	GOM_TRA_1PNPDE20080627_021350_000000372069_00447_33066_0820.N1	27-JUN-2008 02:13:50	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33066	No
29	GOM_TRA_1PNPDE20080627_021939_00000012069_00447_33066_0821.N1	27-JUN-2008 02:19:39	Straylight	0.50000	126	60Bet Oph	2.7700	4250.0	1	33066	Yes
30	GOM_TRA_1PNPDE20080627_025127_000000482069_00447_33066_0924.N1	27-JUN-2008 02:51:27	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	33066	No
31	GOM_TRA_1PNPDE20080627_025420_000000552069_00447_33066_0925.N1	27-JUN-2008 02:54:20	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	33066	No
32	GOM_TRA_1PNPDE20080627_025558_000000402069_00447_33066_0926.N1	27-JUN-2008 02:55:58	Bright	39.500	175	39Del Per	3.0100	19400.	79	33066	No
33	GOM_TRA_1PNPDE20080627_025807_000000362069_00447_33066_0927.N1	27-JUN-2008 02:58:07	Bright	36.000	79	26Bet Per	2.3100	13100.	72	33066	No
34	GOM_TRA_1PNPDE20080627_030912_000000462069_00447_33066_0928.N1	27-JUN-2008 03:09:12	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	33066	No
35	GOM_TRA_1PNPDE20080627_032119_000000392069_00447_33066_0929.N1	27-JUN-2008 03:21:19	Dark	38.500	157	The1Eri	2.9060	9300.0	77	33066	No
36	GOM_TRA_1PNPDE20080627_032723_000000442069_00448_33067_0930.N1	27-JUN-2008 03:27:23	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33067	No
37	GOM_TRA_1PNPDE20080627_033427_000000322069_00448_33067_0931.N1	27-JUN-2008 03:34:27	Straylight	32.000	63	Bet Gru	2.1500	2800.0	64	33067	No
38	GOM_TRA_1PNPDE20080627_033911_000000432069_00448_33067_0932.N1	27-JUN-2008 03:39:11	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	33067	No
39	GOM_TRA_1PNPDE20080627_034631_000000392069_00448_33067_0933.N1	27-JUN-2008 03:46:31	Twilight	38.500	40	The Sco	1.8590	7100.0	77	33067	No
40	GOM_TRA_1PNPDE20080627_034811_000000392069_00448_33067_0934.N1	27-JUN-2008 03:48:11	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	33067	No
41	GOM_TRA_1PNPDE20080627_034934_000000442069_00448_33067_0935.N1	27-JUN-2008 03:49:34	Bright	44.000	116	19Del Sgr	2.7000	4100.0	88	33067	No
42	GOM_TRA_1PNPDE20080627_035048_000000432069_00448_33067_0936.N1	27-JUN-2008 03:50:48	Bright	42.500	137	22Lam Sgr	2.8240	4400.0	85	33067	No
43	GOM_TRA_1PNPDE20080627_035427_000000372069_00448_33067_0937.N1	27-JUN-2008 03:54:27	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33067	No
44	GOM_TRA_1PNPDE20080627_040015_000000382069_00448_33067_0938.N1	27-JUN-2008 04:00:15	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	33067	No
45	GOM_TRA_1PNPDE20080627_040237_000000382069_00448_33067_0939.N1	27-JUN-2008 04:02:37	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	33067	No
46	GOM_TRA_1PNPDE20080627_040509_000000372069_00448_33067_0940.N1	27-JUN-2008 04:05:09	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	33067	No
47	GOM_TRA_1PNPDE20080627_040757_000000352069_00448_33067_0941.N1	27-JUN-2008 04:07:57	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	33067	No
48	GOM_TRA_1PNPDE20080627_041409_000000382069_00448_33067_0942.N1	27-JUN-2008 04:14:09	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	33067	No
49	GOM_TRA_1PNPDE20080627_041622_000000342069_00448_33067_0943.N1	27-JUN-2008 04:16:22	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	33067	No
50	GOM_TRA_1PNPDE20080627_042437_000000362069_00448_33067_0944.N1	27-JUN-2008 04:24:37	Bright	35.500	49	1Alp UMI	1.9900	6300.0	71	33067	No

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



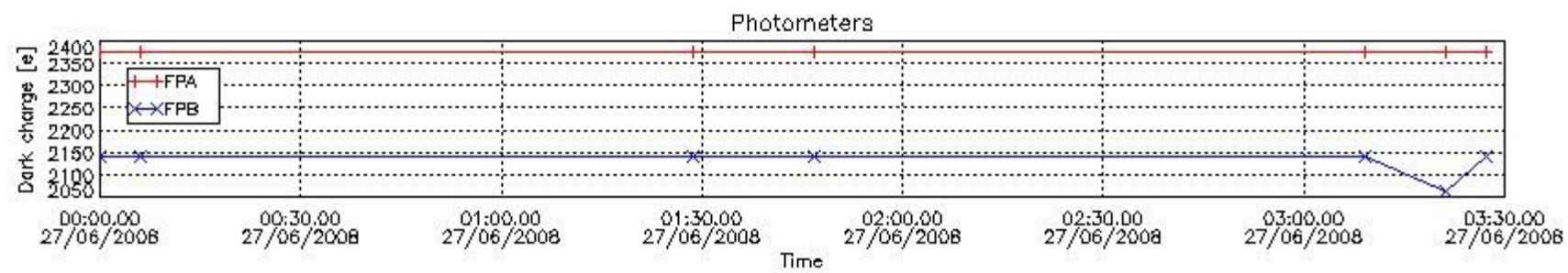
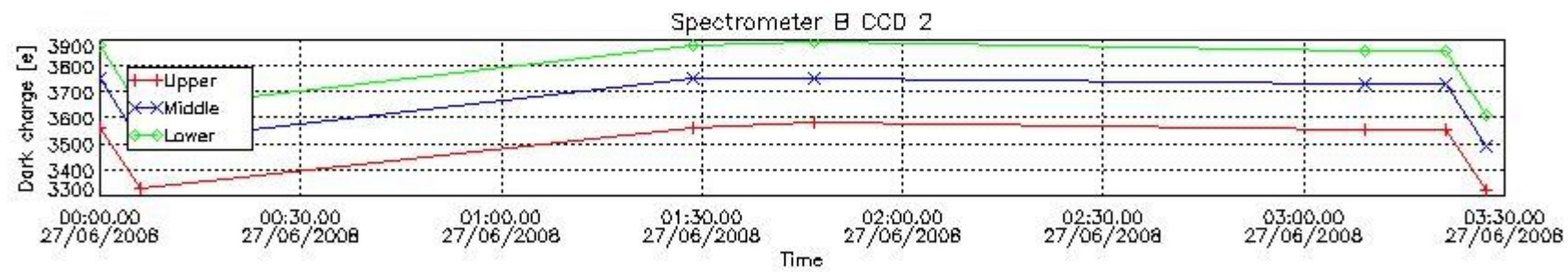
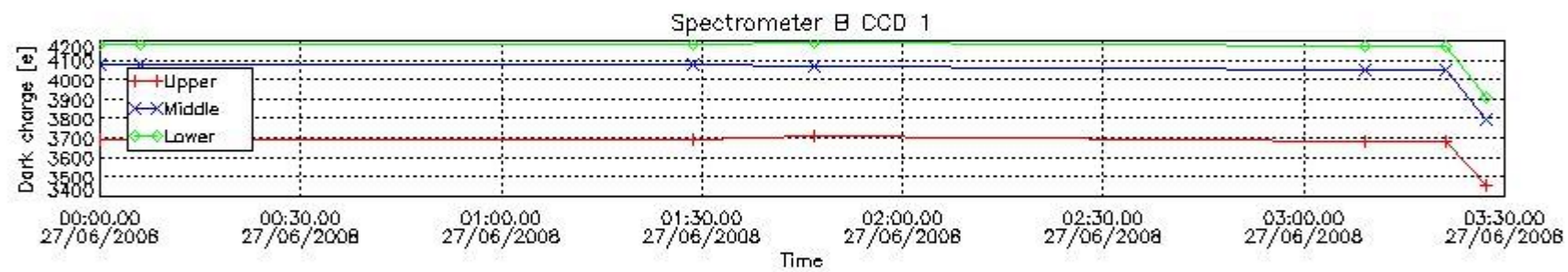
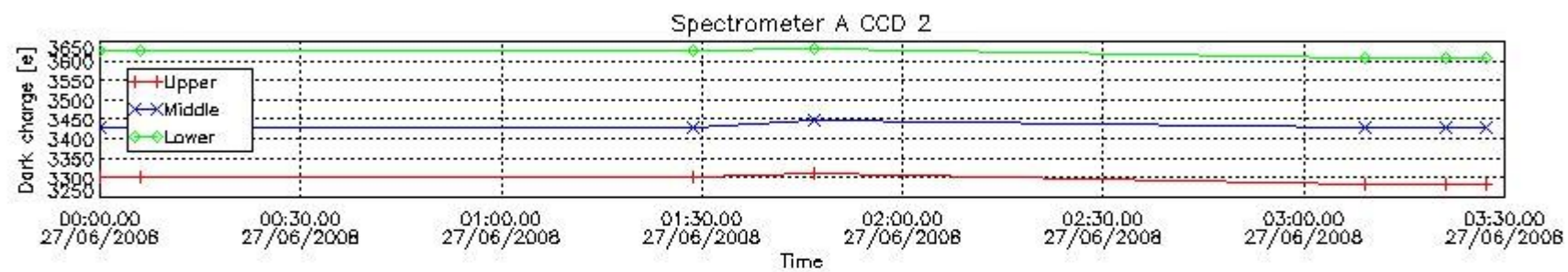
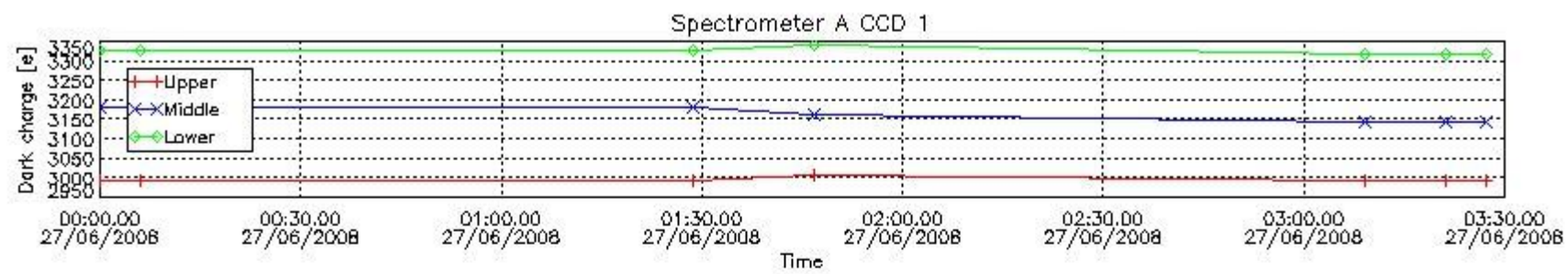
4. Overview of dark signal processing per product

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



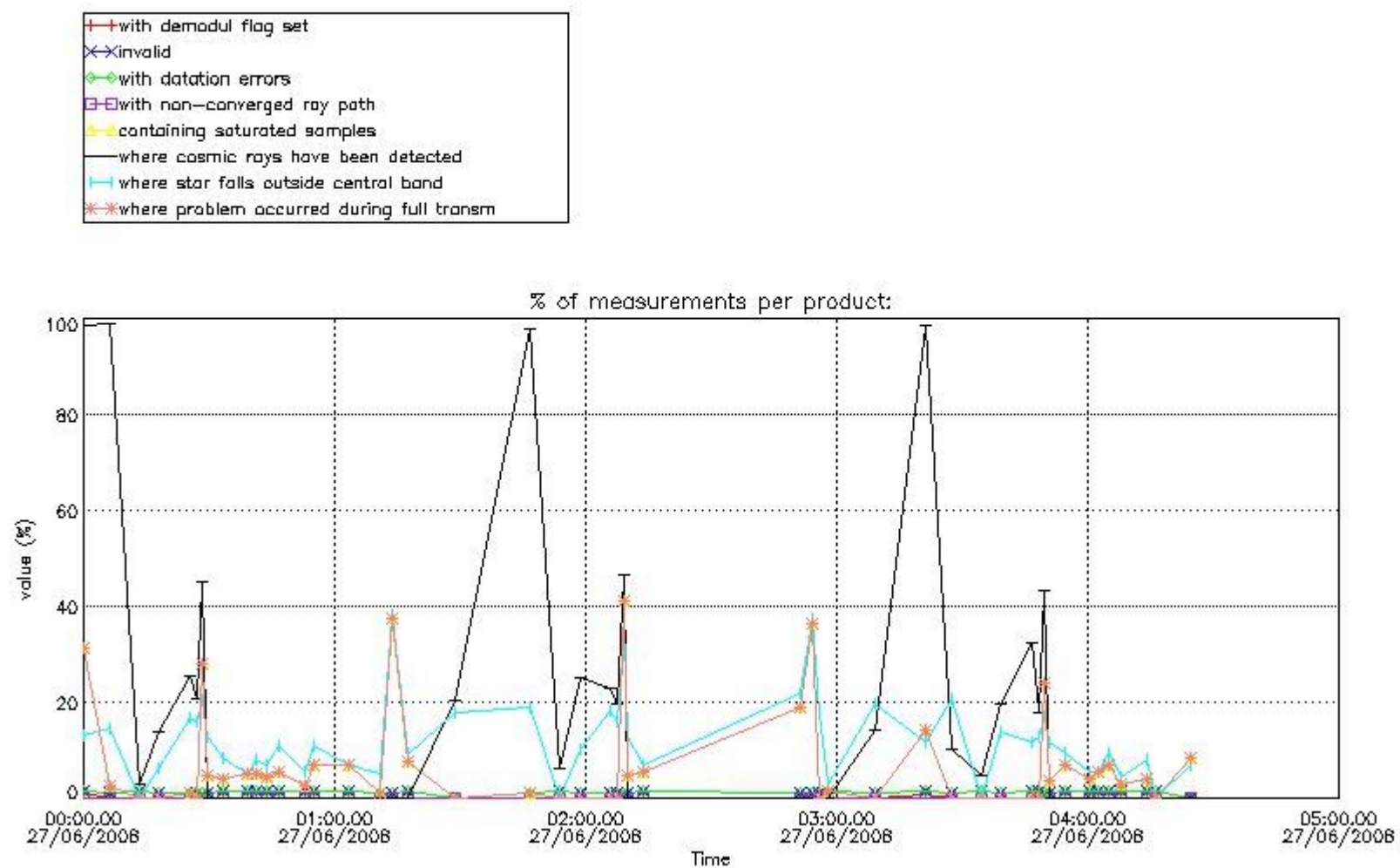
5. Demodulation flag and quality information monitoring

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.

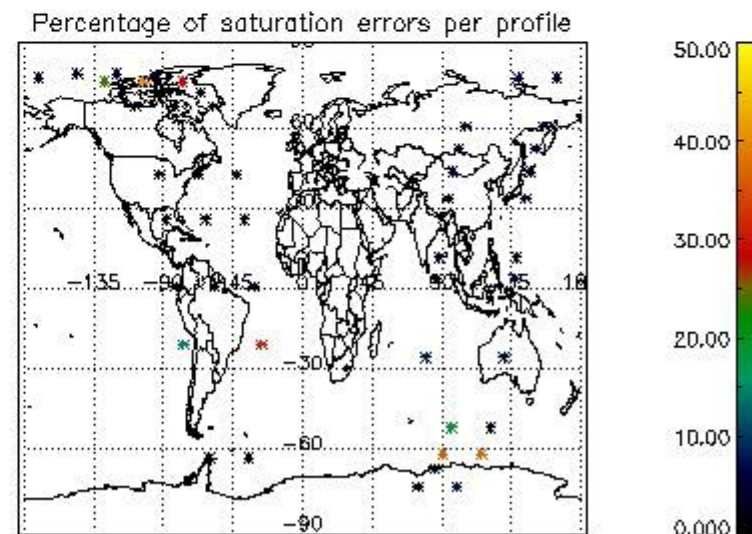
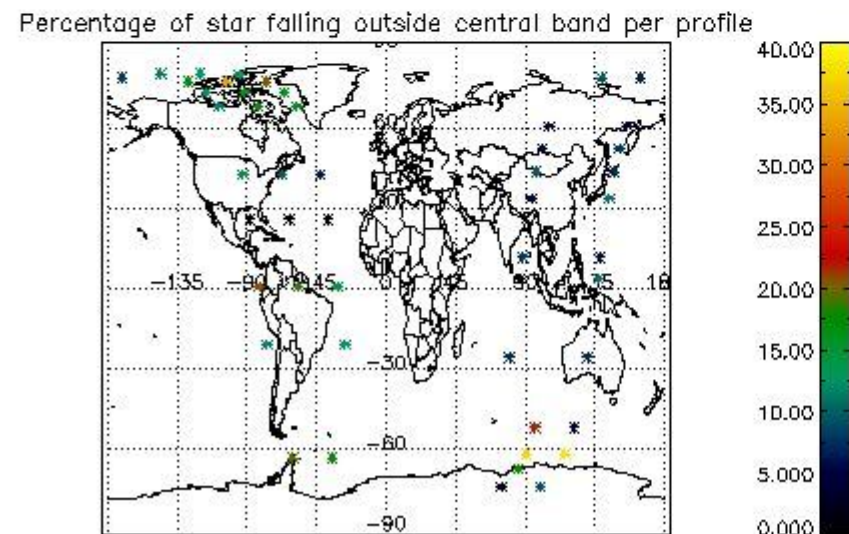
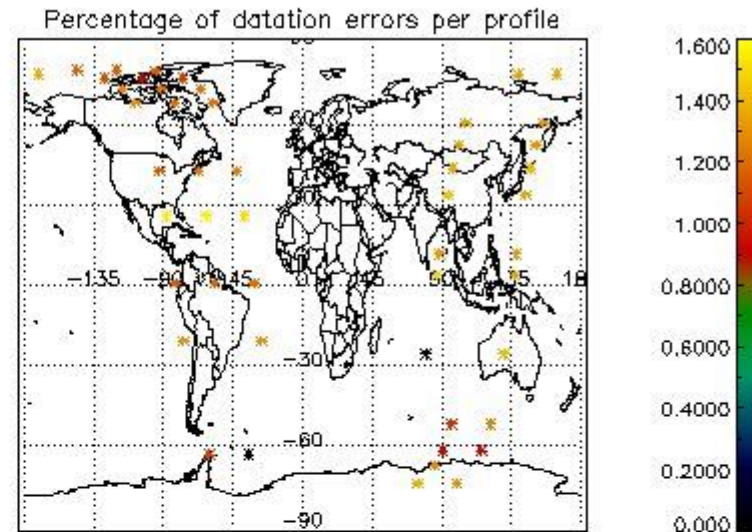
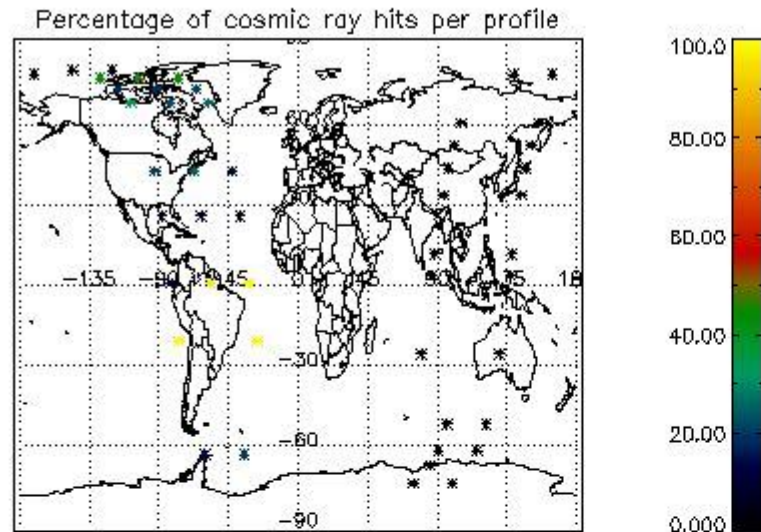
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



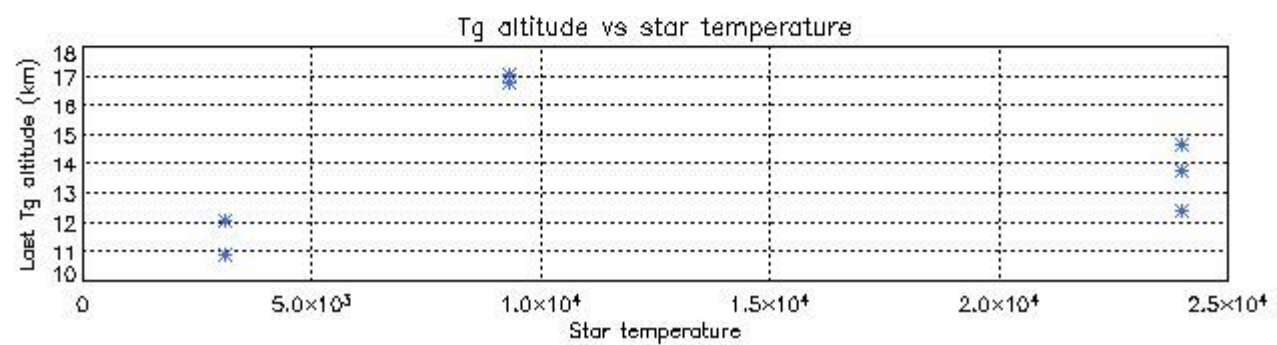
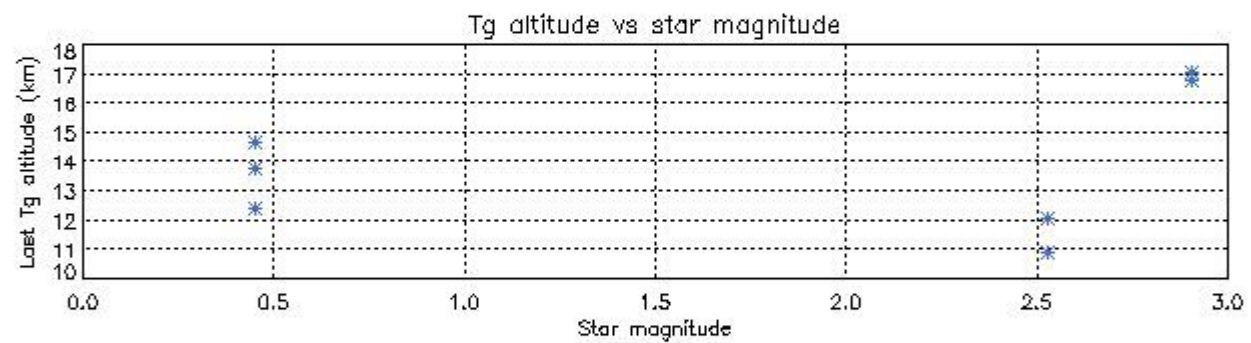
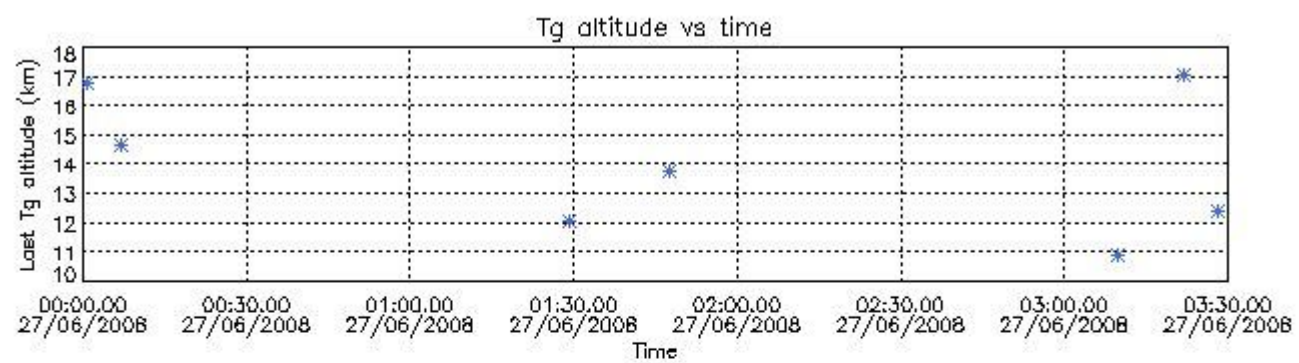
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.940	17.845	NaN
St. deviation:	2.3590	5.7740	NaN
Maximum:	17.065	25.762	NaN
Minimum:	10.920	3.6771	NaN
Number of data:	7.0000	30.000	NaN

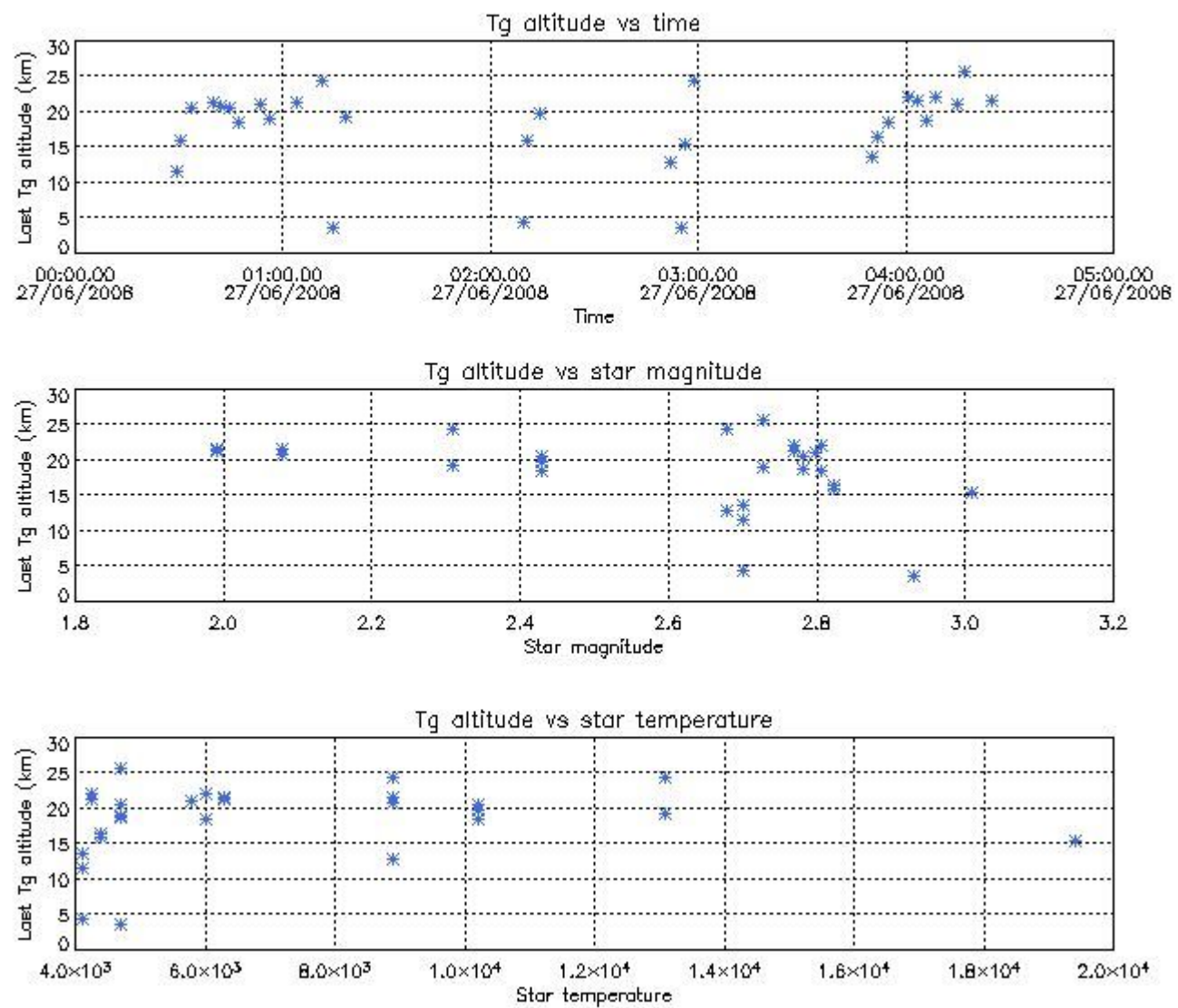
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

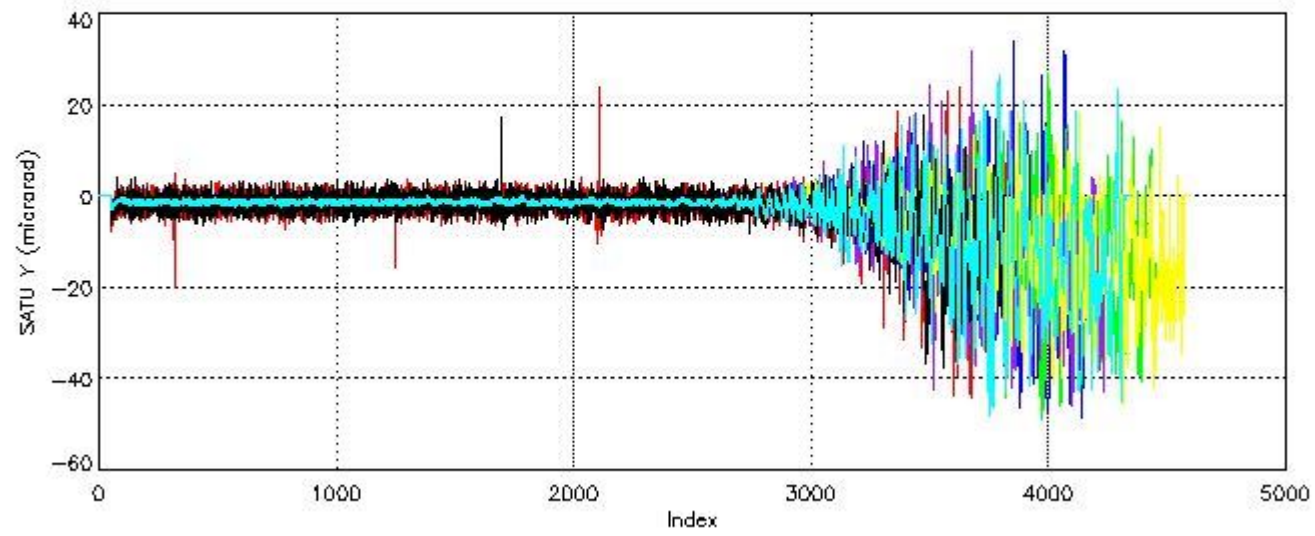
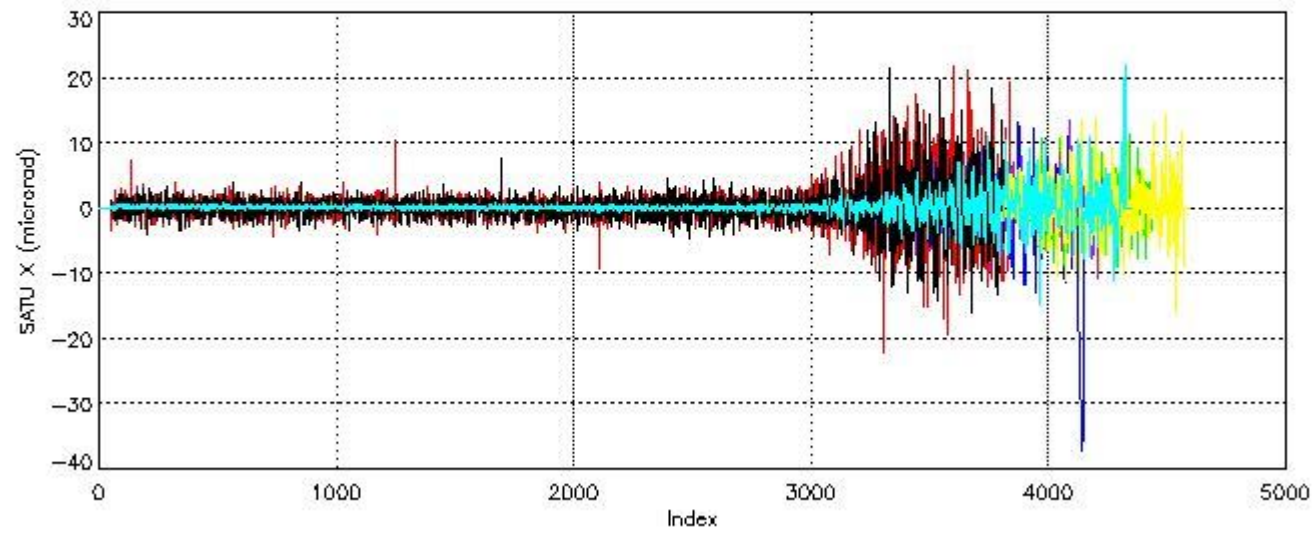


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10553	-1.3929	0.15870	-1.3360
St. deviation:	0.48763	0.98504	0.80281	1.2651
Maximum:	7.4000	5.1000	5.1000	5.6000
Minimum:	-4.4000	-19.900	-6.3000	-8.7000

Number of data:	6200.0	6200.0	25550.	25550.
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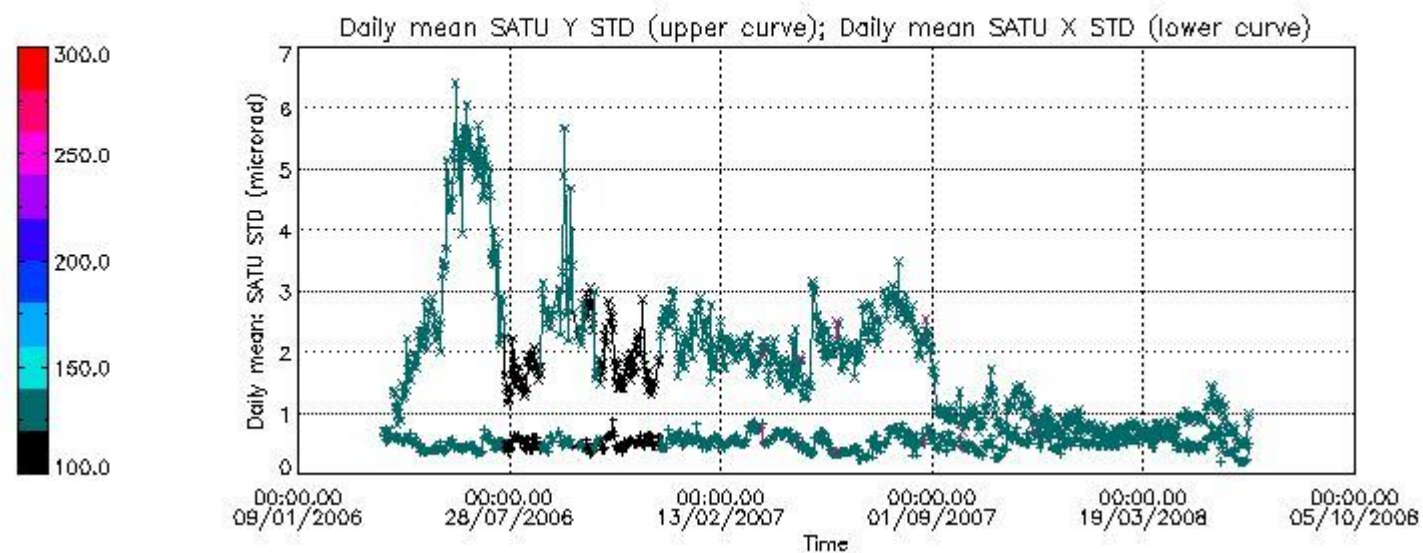
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

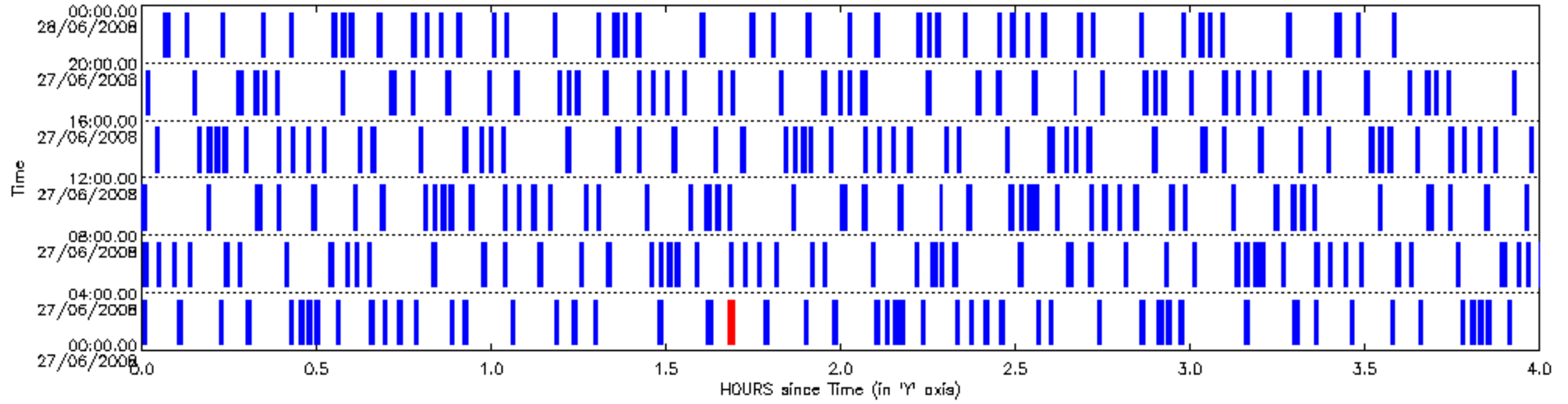
Lower curve: STD of SATU X axis

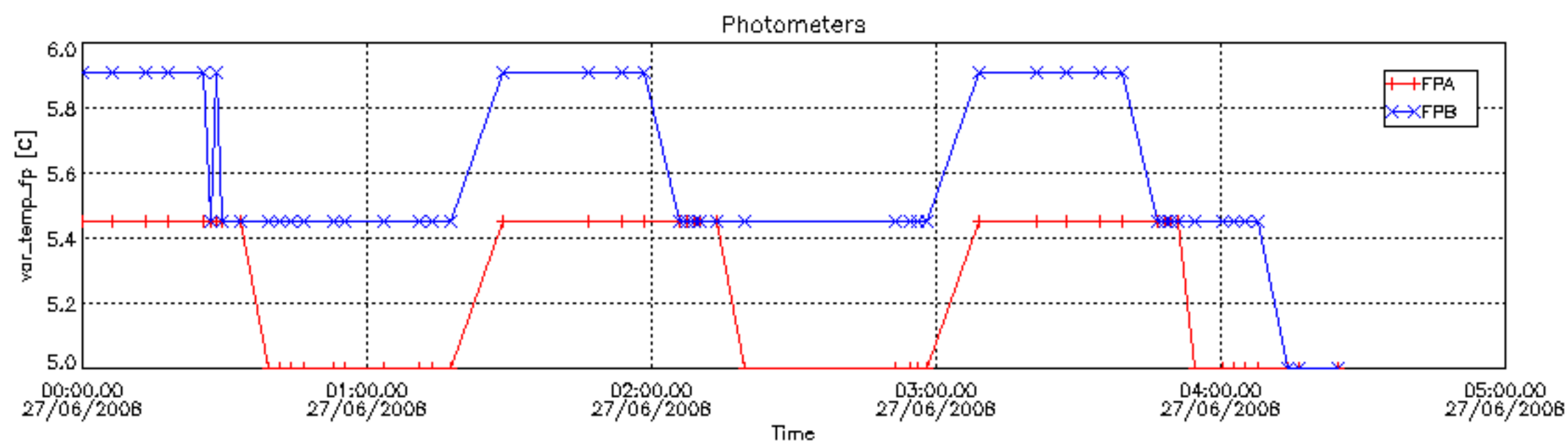
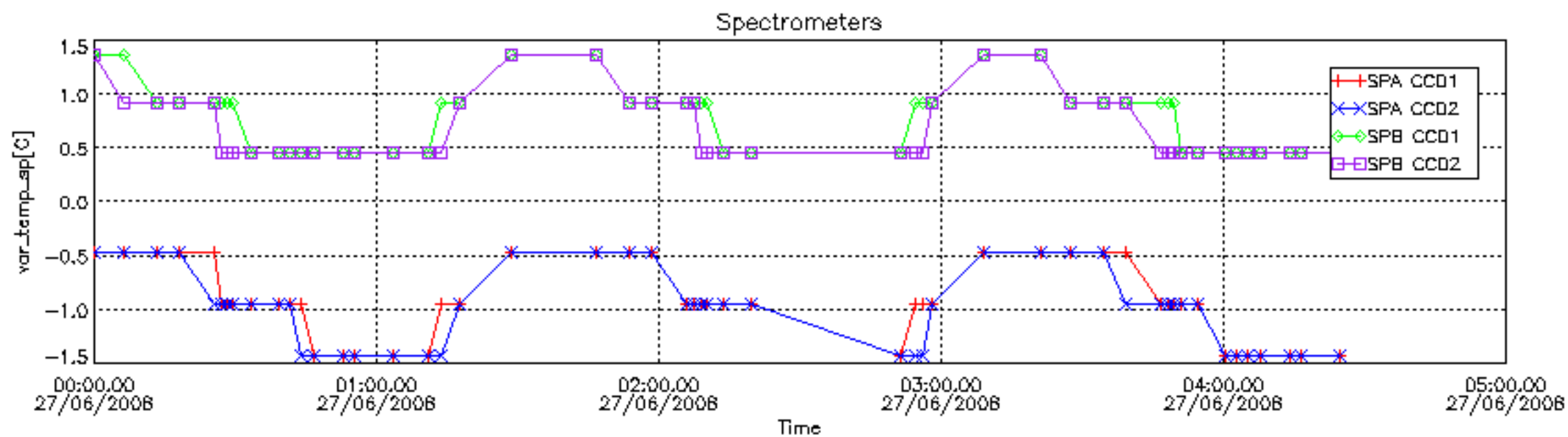


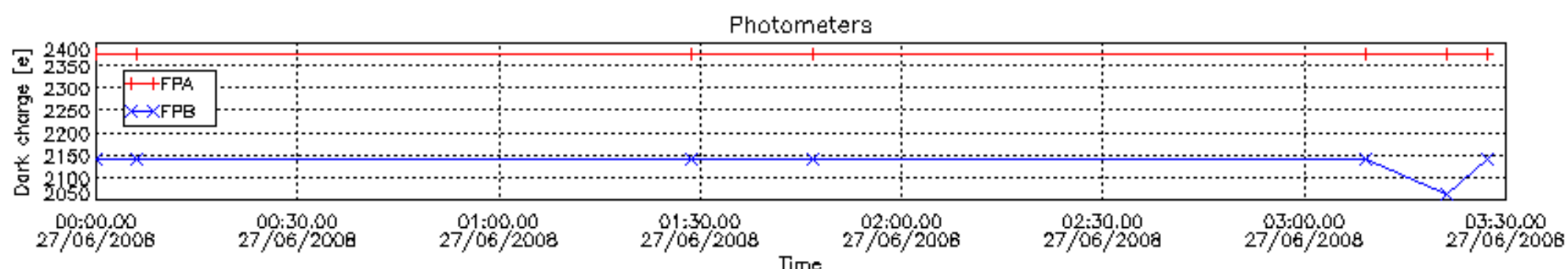
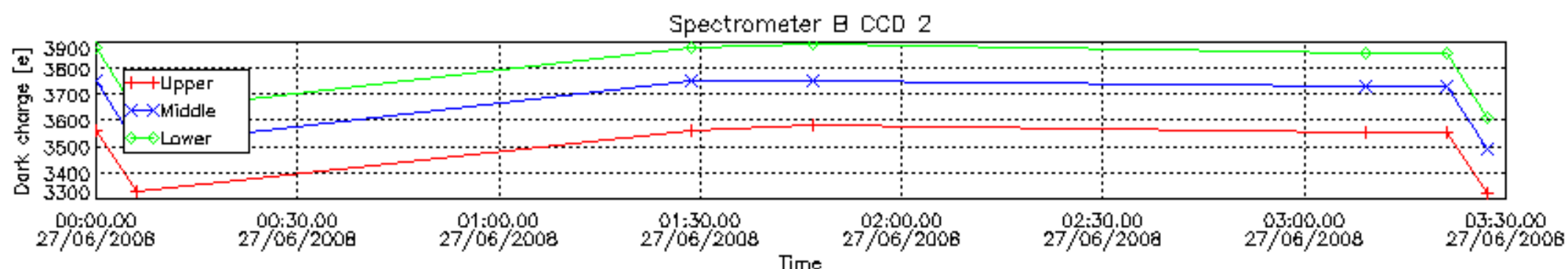
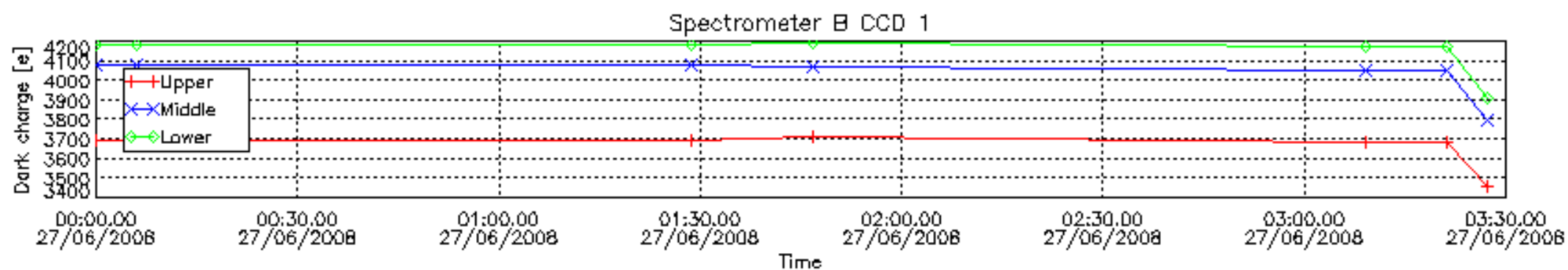
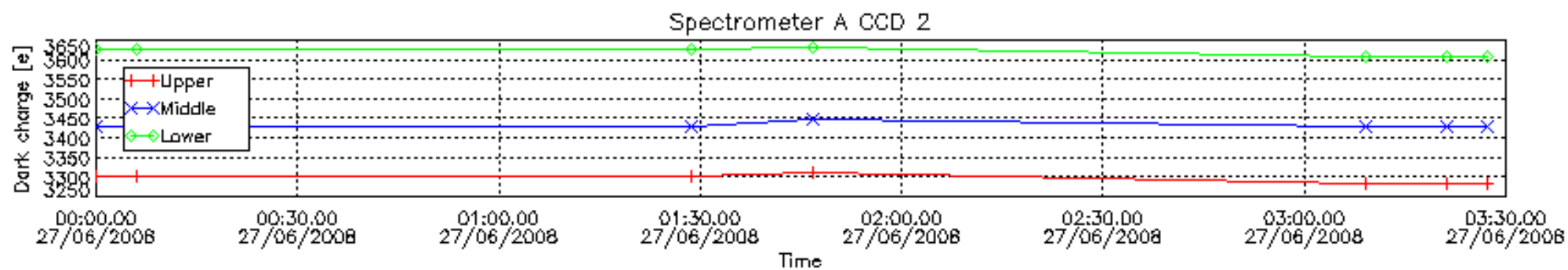
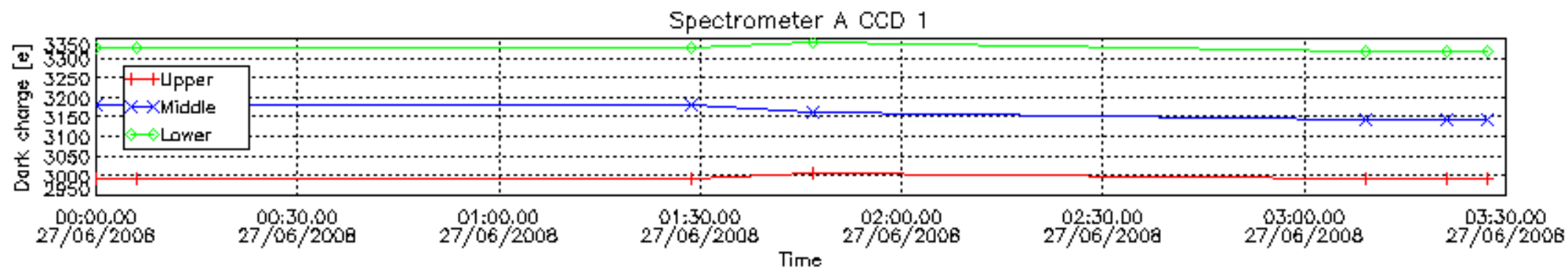
8. Auxiliary Data Files used for the production reported in section 2.4

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.

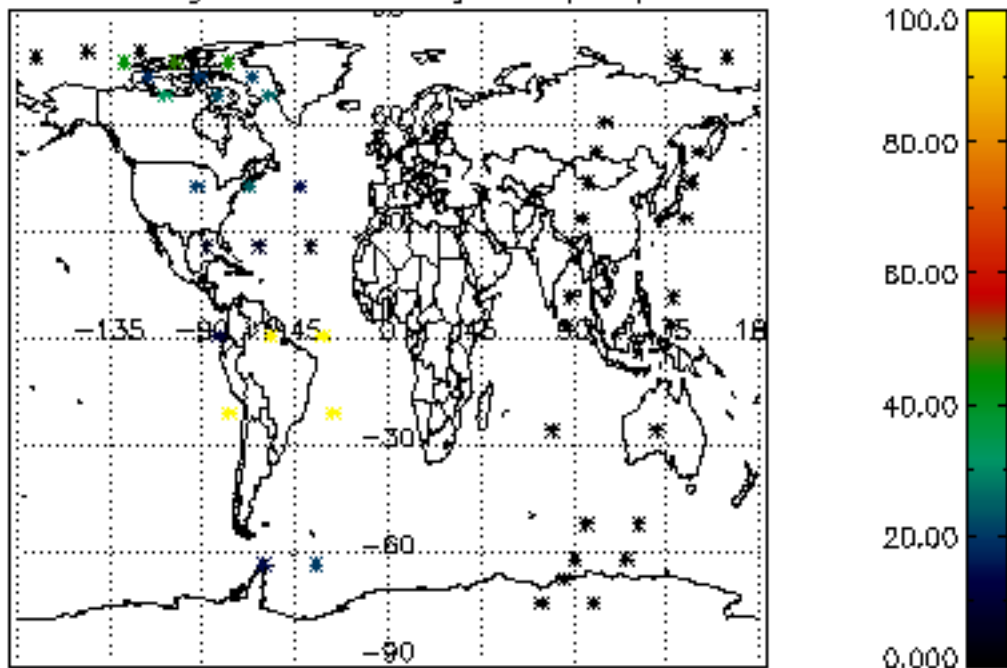
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JUN-2008 00:00:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080620_084614_20080617_000000_20100101_000000	1	27-JUN-2008 00:00:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JUN-2008 00:00:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUN-2008 00:00:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JUN-2008 00:00:07
ECMWF_FILE	AUX_ECF_AXNECM20080626_072112_20080626_210000_20080627_090000	1	27-JUN-2008 00:00:07
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUN-2008 00:00:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080626_221015_000057382069_00444_33063_5819.N1	1	27-JUN-2008 00:00:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080626_235112_000057382069_00445_33064_5820.N1	21	27-JUN-2008 01:46:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080627_024632_000054192069_00447_33066_5822.N1	30	27-JUN-2008 02:51:27



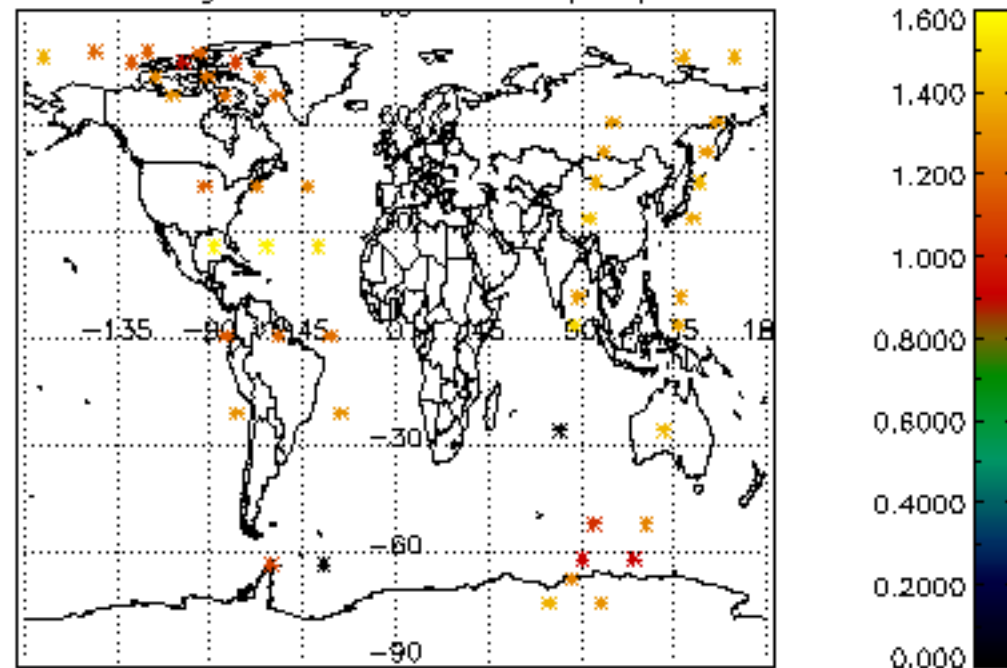




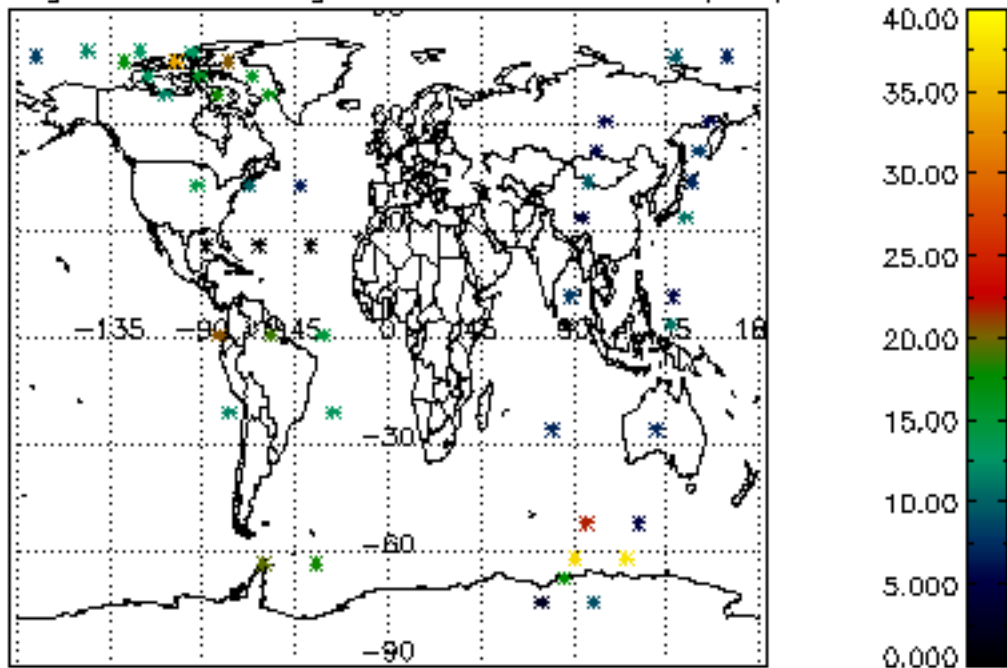
Percentage of cosmic ray hits per profile



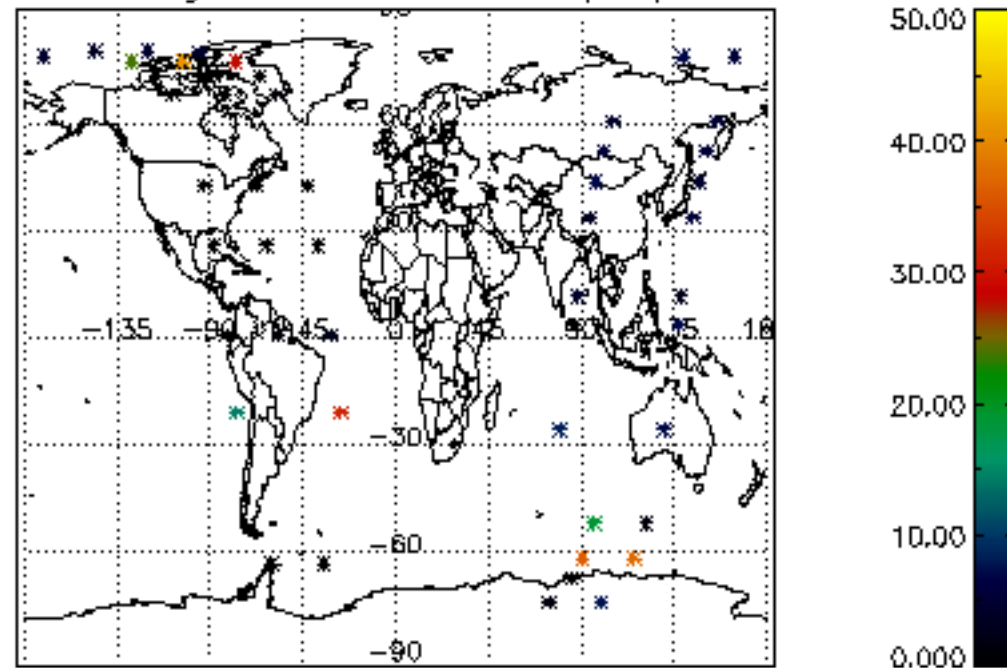
Percentage of datation errors per profile



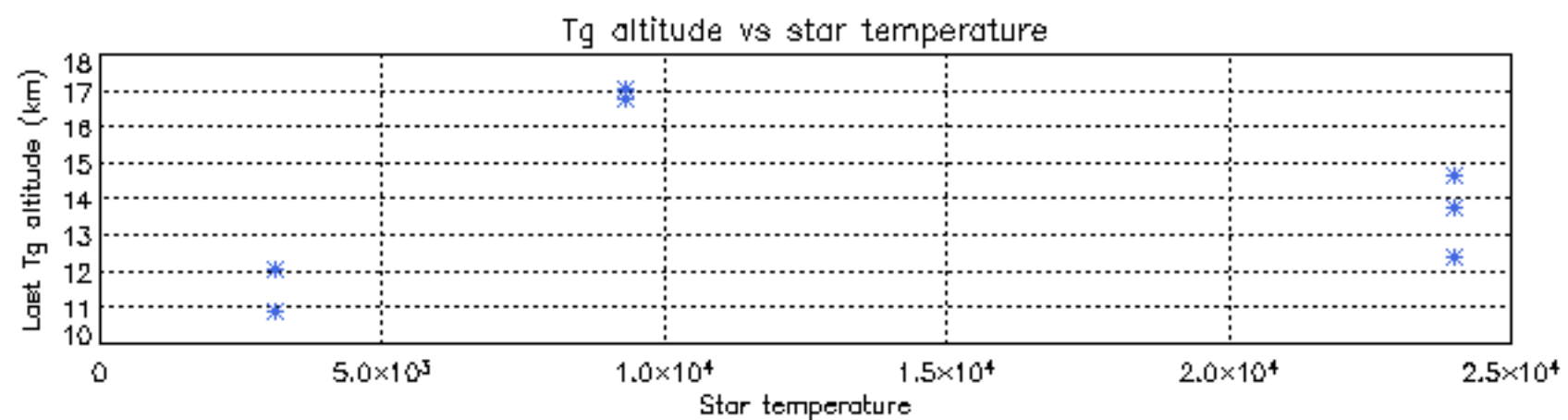
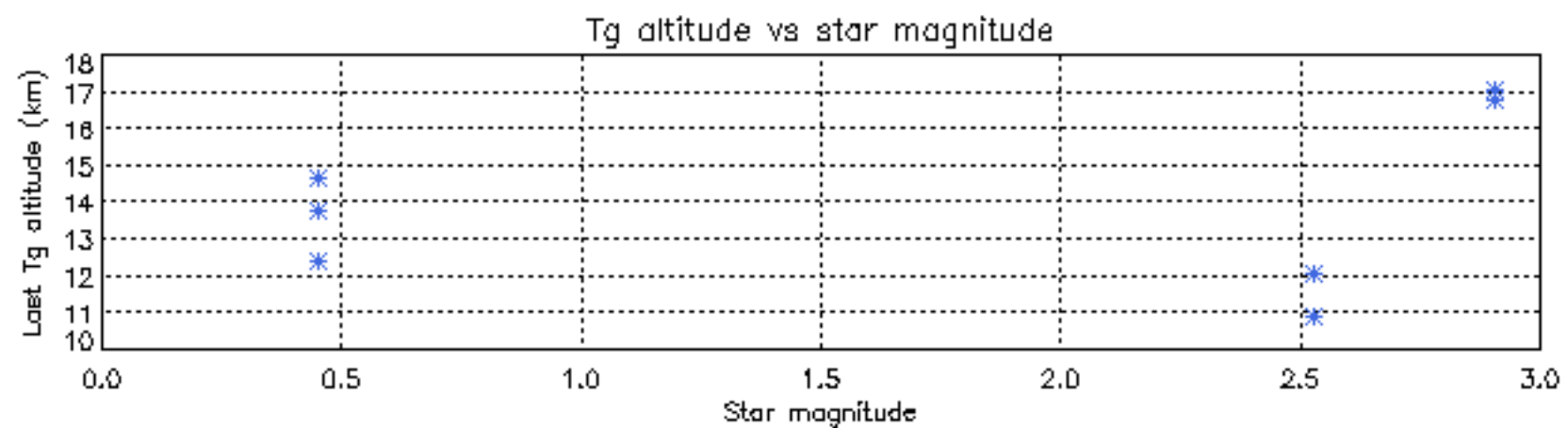
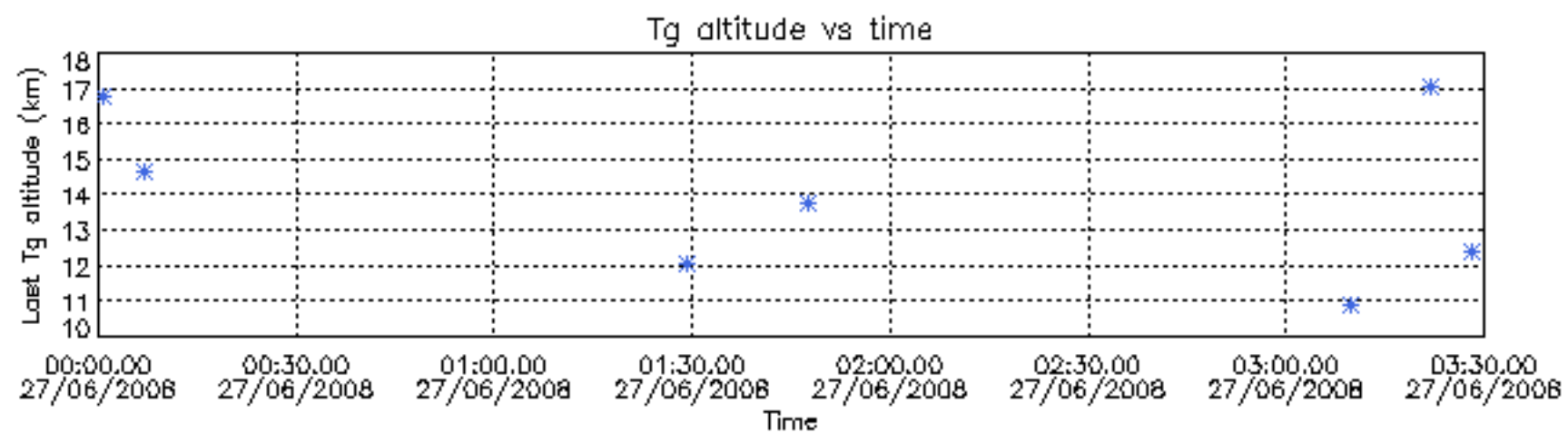
Percentage of star falling outside central band per profile



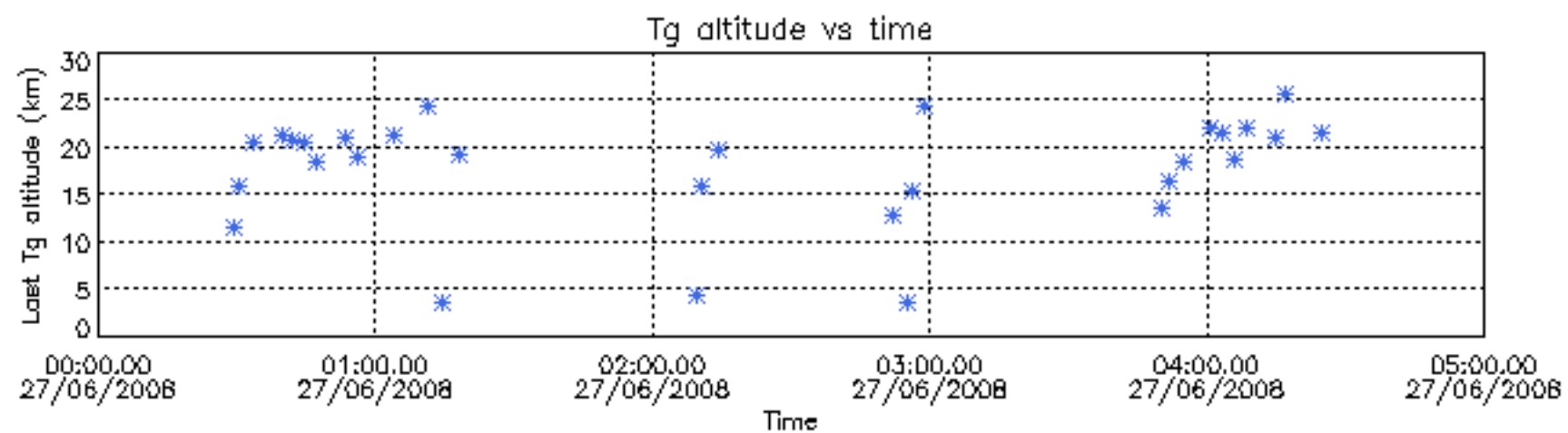
Percentage of saturation errors per profile

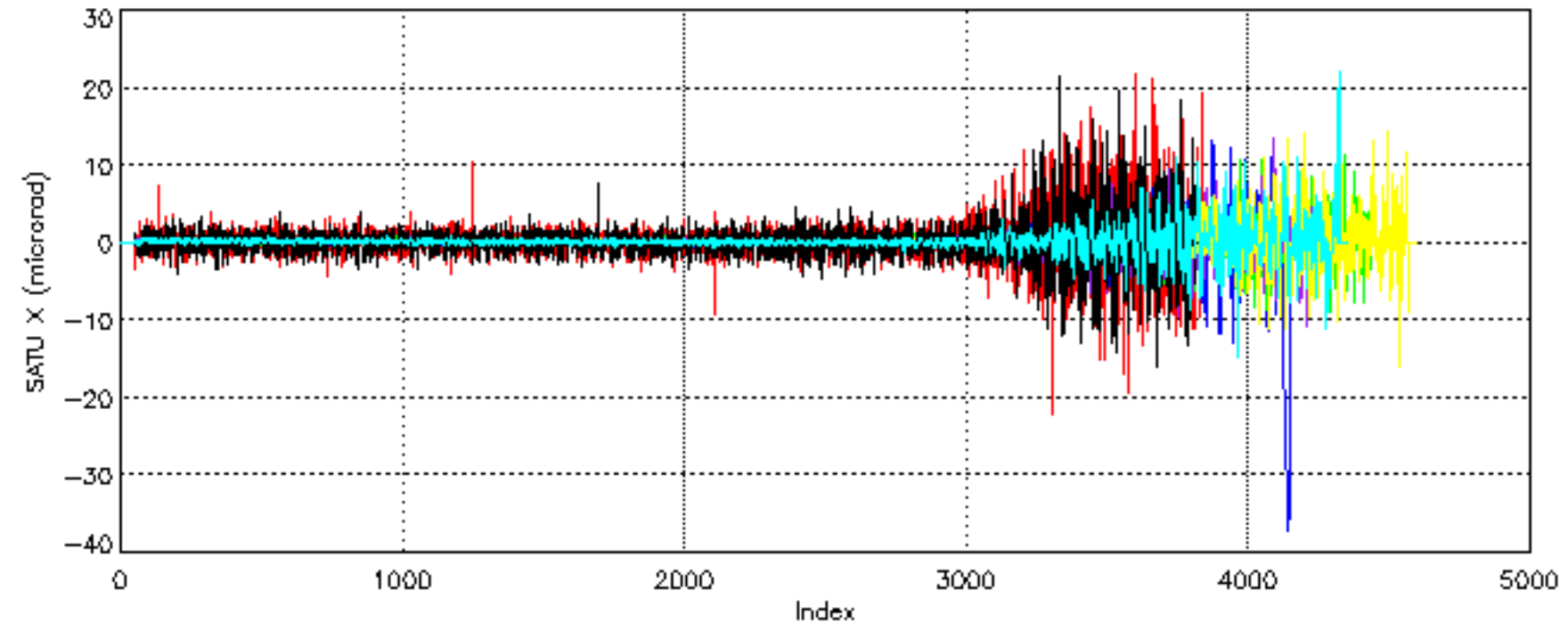


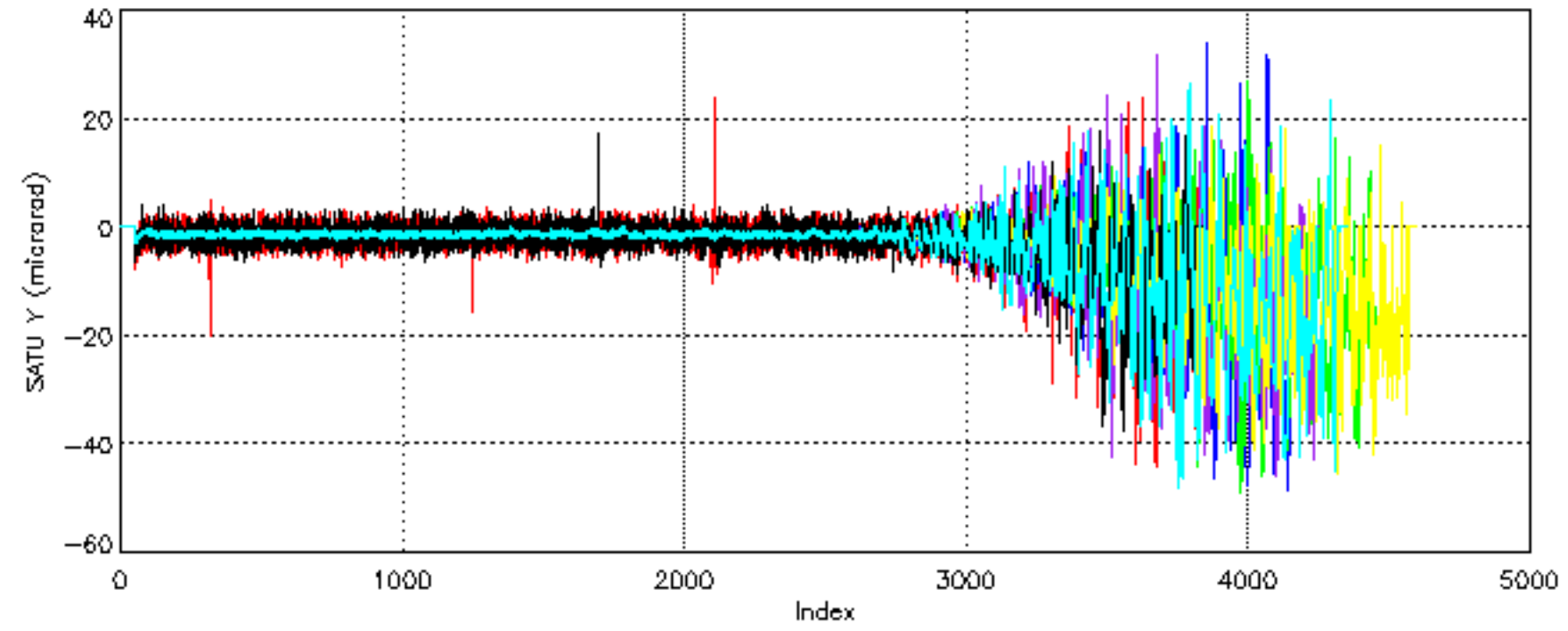
Tangent altitude at which the star is lost

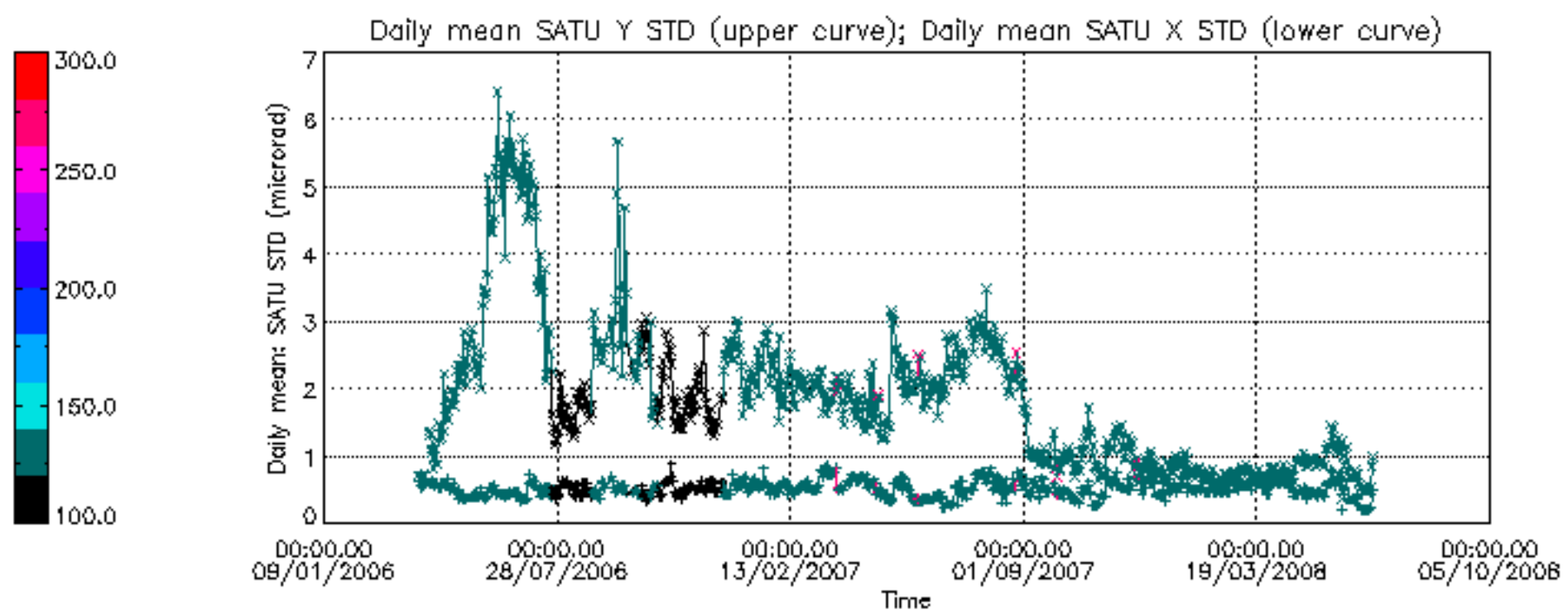


Tangent altitude at which the star is lost









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 3; -116.7; 01-JUN-2008 00:21:16; Dark ; 62.0; 18; 24Alp PsA ; 1.17; 9700;occ; 124; 0;32692
 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693
 8; 1038.2; 01-JUN-2008 00:40:31; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;32693
 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693
 10; 1251.9; 01-JUN-2008 00:44:05; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;32693
 11; 1373.9; 01-JUN-2008 00:46:07; Dark ; 47.5; 136; 23Tau Sco ; 2.82; 30000;occ; 95; 0;32693
 12; 1498.6; 01-JUN-2008 00:48:11; Bright; 37.0; 80; 7Del Sco ; 2.32; 30000;occ; 74; 0;32693
 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693
 14; 1702.9; 01-JUN-2008 00:51:36; Bright; 59.0; 98; 13Zet Oph ; 2.57; 30000;occ; 118; 0;32693
 15; 1834.0; 01-JUN-2008 00:53:47; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32693
 16; 2014.6; 01-JUN-2008 00:56:47; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32693
 17; 2368.7; 01-JUN-2008 01:02:41; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;32693
 18; 2526.4; 01-JUN-2008 01:05:19; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32693
 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693
 21; 3928.8; 01-JUN-2008 01:28:42; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32693
 22; 4394.6; 01-JUN-2008 01:36:27; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;32693
 23; 4557.0; 01-JUN-2008 01:39:10; Dark ; 53.5; 58; 21Alp And ; 2.07; 11000;occ; 107; 0;32693
 24; 4855.2; 01-JUN-2008 01:44:08; Dark ; 52.5; 140; 88Gam Peg ; 2.83; 26000;occ; 105; 0;32693

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 3; -115.5; 01-JUN-2008 02:01:53; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;32693
 4; 81.7; 01-JUN-2008 02:05:10; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;32694
 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694
 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694
 8; 1038.7; 01-JUN-2008 02:21:07; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32694
 9; 1146.6; 01-JUN-2008 02:22:55; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32694
 10; 1252.2; 01-JUN-2008 02:24:41; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32694
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 12; 1498.9; 01-JUN-2008 02:28:48; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32694
 13; 1591.6; 01-JUN-2008 02:30:20; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;32694
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 17; 2368.7; 01-JUN-2008 02:43:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;32694
 18; 2526.1; 01-JUN-2008 02:45:55; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32694
 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694
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 4; -1478.7; 01-JUN-2008 03:19:46; Dark ; 50.0; 58; 21Alp And ; 2.07; 11000;occ; 100; 0;32694
 5; -1180.4; 01-JUN-2008 03:24:44; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;32694
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 9; 82.7; 01-JUN-2008 03:45:47; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;32695
 10; 195.7; 01-JUN-2008 03:47:40; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32695
 11; 492.5; 01-JUN-2008 03:52:37; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32695
 12; 937.9; 01-JUN-2008 04:00:02; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32695
 13; 1039.3; 01-JUN-2008 04:01:44; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;32695
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 15; 1252.8; 01-JUN-2008 04:05:17; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32695
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 18; 1591.8; 01-JUN-2008 04:10:56; Bright; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;32695
 19; 1703.3; 01-JUN-2008 04:12:48; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32695
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 21; 2014.9; 01-JUN-2008 04:17:59; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32695

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23; 2525.7; 01-JUN-2008 04:26:30; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32695
24; 3003.4; 01-JUN-2008 04:34:28; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;32695
25; 3625.3; 01-JUN-2008 04:44:50; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;32695
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 9; 83.5; 01-JUN-2008 05:26:24; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;32696
10; 196.5; 01-JUN-2008 05:28:17; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32696
11; 493.3; 01-JUN-2008 05:33:14; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;32696
12; 938.4; 01-JUN-2008 05:40:39; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32696
13; 1039.7; 01-JUN-2008 05:42:20; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32696
14; 1147.4; 01-JUN-2008 05:44:08; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;32696
15; 1253.1; 01-JUN-2008 05:45:54; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;32696
16; 1374.9; 01-JUN-2008 05:47:55; Dark ; 53.0; 136; 23Tau Sco ; 2.82; 30000;occ; 106; 0;32696
17; 1499.3; 01-JUN-2008 05:50:00; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;32696
18; 1591.8; 01-JUN-2008 05:51:32; Bright; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;32696
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20; 1834.2; 01-JUN-2008 05:55:35; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32696
21; 2014.9; 01-JUN-2008 05:58:36; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32696
22; 2368.5; 01-JUN-2008 06:04:29; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;32696
23; 2525.2; 01-JUN-2008 06:07:06; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32696
24; 3002.9; 01-JUN-2008 06:15:04; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;32696
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 5; 1376.8; 01-JUN-2008 20:53:21; Dark ; 56.0; 136; 23Tau Sco ; 2.82; 30000;occ; 112; 0;32705
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 8; 1834.0; 01-JUN-2008 21:00:58; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32705
 9; 2014.7; 01-JUN-2008 21:03:59; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32705
10; 2316.9; 01-JUN-2008 21:09:01; Bright; 43.5; 127; 27Bet Her ; 2.78; 4700;occ; 87; 0;32705
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12; 3000.4; 01-JUN-2008 21:20:24; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;32705
13; 3619.2; 01-JUN-2008 21:30:43; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32705
14; 3927.6; 01-JUN-2008 21:35:52; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32705
15; 4395.7; 01-JUN-2008 21:43:40; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;32705
16; 4861.4; 01-JUN-2008 21:51:26; Dark ; 53.5; 140; 88Gam Peg ; 2.83; 26000;occ; 107; 0;32705
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 3; -100.3; 01-JUN-2008 22:09:20; Dark ; 67.0; 18; 24Alp PsA ; 1.17; 9700;occ; 134; 0;32705
 4; 92.0; 01-JUN-2008 22:12:32; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;32706
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 2; 1834.3; 04-JUN-2008 11:03:08; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32742
 3; 2014.7; 04-JUN-2008 11:06:08; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32742
 4; 2305.3; 04-JUN-2008 11:10:59; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;32742
 5; 2504.6; 04-JUN-2008 11:14:18; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32742
 6; 2944.6; 04-JUN-2008 11:21:38; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;32742
 7; 3596.6; 04-JUN-2008 11:32:30; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32742
 8; 3923.5; 04-JUN-2008 11:37:57; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;32742

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9; 4399.1; 04-JUN-2008 11:45:53; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;32742
 10; 4567.4; 04-JUN-2008 11:48:41; Dark ; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;32742
 11; 4643.1; 04-JUN-2008 11:49:57; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;32742
 12; 4882.2; 04-JUN-2008 11:53:56; Dark ; 53.0; 140; 88Gam Peg ; 2.83; 26000;occ; 106; 0;32742
 13; 5332.0; 04-JUN-2008 12:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32742
 14; 5427.4; 04-JUN-2008 12:03:01; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;32742
 15; 5825.3; 04-JUN-2008 12:09:39; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;32742
 16; 5985.0; 04-JUN-2008 12:12:19; Dark ; 61.0; 18; 24Alp PsA ; 1.17; 9700;occ; 122; 0;32742
 17; 6160.4; 04-JUN-2008 12:15:14; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32742
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 19; 6561.0; 04-JUN-2008 12:21:55; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32742
 20; 6992.9; 04-JUN-2008 12:29:06; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32742
 21; 7095.3; 04-JUN-2008 12:30:49; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;32742
 22; 7201.9; 04-JUN-2008 12:32:35; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32742
 23; 7302.5; 04-JUN-2008 12:34:16; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32742
 24; 7421.7; 04-JUN-2008 12:36:15; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;32742
 25; 7632.3; 04-JUN-2008 12:39:46; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32742

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 2; 1834.4; 04-JUN-2008 12:43:44; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32743
 3; 2014.7; 04-JUN-2008 12:46:44; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32743
 4; 2305.2; 04-JUN-2008 12:51:35; Bright; 59.0; 127; 27Bet Her ; 2.78; 4700;occ; 118; 0;32743
 5; 2504.3; 04-JUN-2008 12:54:54; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32743
 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743
 7; 3596.2; 04-JUN-2008 13:13:06; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32743
 8; 3923.5; 04-JUN-2008 13:18:33; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;32743
 9; 4399.4; 04-JUN-2008 13:26:29; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32743
 10; 4567.7; 04-JUN-2008 13:29:17; Dark ; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;32743
 11; 4643.4; 04-JUN-2008 13:30:33; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;32743
 12; 4882.7; 04-JUN-2008 13:34:32; Dark ; 55.0; 140; 88Gam Peg ; 2.83; 26000;occ; 110; 0;32743
 13; 5333.0; 04-JUN-2008 13:42:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32743
 14; 5428.2; 04-JUN-2008 13:43:38; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;32743
 15; 5825.9; 04-JUN-2008 13:50:15; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32743
 16; 5986.4; 04-JUN-2008 13:52:56; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;32743
 17; 6161.5; 04-JUN-2008 13:55:51; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32743
 18; 6278.1; 04-JUN-2008 13:57:48; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;32743
 19; 6561.7; 04-JUN-2008 14:02:31; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32743
 20; 6993.3; 04-JUN-2008 14:09:43; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32743
 21; 7095.8; 04-JUN-2008 14:11:25; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32743
 22; 7202.4; 04-JUN-2008 14:13:12; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;32743
 23; 7302.9; 04-JUN-2008 14:14:52; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32743
 24; 7421.8; 04-JUN-2008 14:16:51; Dark ; 39.5; 136; 23Tau Sco ; 2.82; 30000;occ; 79; 0;32743

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 2; 1705.5; 04-JUN-2008 14:22:11; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;32744
 3; 1834.4; 04-JUN-2008 14:24:20; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32744
 4; 2014.8; 04-JUN-2008 14:27:20; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32744
 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
 6; 2504.0; 04-JUN-2008 14:35:29; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;32744
 7; 2943.6; 04-JUN-2008 14:42:49; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;32744
 8; 3595.4; 04-JUN-2008 14:53:41; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32744
 9; 3923.3; 04-JUN-2008 14:59:09; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;32744
 10; 4399.6; 04-JUN-2008 15:07:05; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;32744
 11; 4568.0; 04-JUN-2008 15:09:53; Dark ; 32.0; 58; 21Alp And ; 2.07; 11000;occ; 64; 0;32744
 12; 4643.8; 04-JUN-2008 15:11:09; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;32744
 13; 4883.5; 04-JUN-2008 15:15:09; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;32744
 14; 5334.1; 04-JUN-2008 15:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32744
 15; 5429.0; 04-JUN-2008 15:24:14; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32744
 16; 5826.6; 04-JUN-2008 15:30:52; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32744
 17; 5987.8; 04-JUN-2008 15:33:33; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;32744
 18; 6162.4; 04-JUN-2008 15:36:28; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;32744
 19; 6279.1; 04-JUN-2008 15:38:24; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32744
 20; 6562.5; 04-JUN-2008 15:43:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32744
 21; 6993.6; 04-JUN-2008 15:50:19; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32744
 22; 7096.3; 04-JUN-2008 15:52:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32744
 23; 7202.8; 04-JUN-2008 15:53:48; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32744
 24; 7303.1; 04-JUN-2008 15:55:28; Dark ; 40.5; 75; 26Eps Sco ; 2.29; 4250;occ; 81; 0;32744

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 2; 1386.0; 04-JUN-2008 15:57:27; Dark ; 47.0; 136; 23Tau Sco ; 2.82; 30000;occ; 94; 0;32745
 3; 1596.7; 04-JUN-2008 16:00:58; Bright; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;32745
 4; 1705.3; 04-JUN-2008 16:02:47; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;32745
 5; 1834.5; 04-JUN-2008 16:04:56; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32745
 6; 2014.7; 04-JUN-2008 16:07:56; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32745
 7; 2304.7; 04-JUN-2008 16:12:46; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;32745
 8; 2503.5; 04-JUN-2008 16:16:05; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32745
 9; 2942.9; 04-JUN-2008 16:23:24; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;32745
 10; 3594.8; 04-JUN-2008 16:34:16; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32745
 11; 3923.2; 04-JUN-2008 16:39:44; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32745
 12; 4399.5; 04-JUN-2008 16:47:41; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32745
 13; 4568.2; 04-JUN-2008 16:50:29; Dark ; 32.0; 58; 21Alp And ; 2.07; 11000;occ; 64; 0;32745
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 15; 4884.1; 04-JUN-2008 16:55:45; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;32745
 16; 5335.2; 04-JUN-2008 17:03:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32745
 17; 5429.6; 04-JUN-2008 17:04:51; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32745
 18; 5827.2; 04-JUN-2008 17:11:29; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32745
 19; 5989.2; 04-JUN-2008 17:14:10; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;32745
 20; 6163.3; 04-JUN-2008 17:17:05; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32745
 21; 6280.0; 04-JUN-2008 17:19:01; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32745
 22; 6563.1; 04-JUN-2008 17:23:44; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32745
 23; 6994.1; 04-JUN-2008 17:30:55; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32745
 24; 7096.8; 04-JUN-2008 17:32:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32745
 25; 7203.2; 04-JUN-2008 17:34:25; Dark ; 17.0; 25; 35Lam Sco ; 1.62; 28000;occ; 34; 0;32745

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 2; 1167.2; 04-JUN-2008 17:34:25; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;32746
 3; 1267.4; 04-JUN-2008 17:36:05; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32746
 4; 1386.2; 04-JUN-2008 17:38:04; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;32746
 5; 1596.9; 04-JUN-2008 17:41:34; Bright; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;32746
 6; 1705.6; 04-JUN-2008 17:43:23; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;32746
 7; 1834.4; 04-JUN-2008 17:45:32; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;32746
 8; 2014.7; 04-JUN-2008 17:48:32; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32746
 9; 2304.3; 04-JUN-2008 17:53:22; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;32746
 10; 2503.1; 04-JUN-2008 17:56:40; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32746
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 12; 3594.2; 04-JUN-2008 18:14:52; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;32746
 13; 3922.9; 04-JUN-2008 18:20:20; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;32746
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 16; 4884.4; 04-JUN-2008 18:36:22; Dark ; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;32746
 17; 5336.2; 04-JUN-2008 18:43:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32746
 18; 5430.3; 04-JUN-2008 18:45:28; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;32746
 19; 5827.8; 04-JUN-2008 18:52:05; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;32746
 20; 5990.5; 04-JUN-2008 18:54:48; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;32746
 21; 6164.2; 04-JUN-2008 18:57:41; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;32746
 22; 6281.0; 04-JUN-2008 18:59:38; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;32746
 23; 6563.7; 04-JUN-2008 19:04:21; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32746
 24; 6994.4; 04-JUN-2008 19:11:32; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32746
 25; 7097.1; 04-JUN-2008 19:13:14; Dark ; 31.0; 40; The Sco ; 1.86; 7100;occ; 62; 0;32746

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 3; 1267.7; 04-JUN-2008 19:16:41; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;32747
 4; 1386.4; 04-JUN-2008 19:18:40; Dark ; 45.5; 136; 23Tau Sco ; 2.82; 30000;occ; 91; 0;32747
 5; 1596.9; 04-JUN-2008 19:22:10; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32747
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 7; 1834.4; 04-JUN-2008 19:26:08; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;32747
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 9; 2304.1; 04-JUN-2008 19:33:57; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;32747
 10; 2502.7; 04-JUN-2008 19:37:16; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32747
 11; 2941.6; 04-JUN-2008 19:44:35; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;32747
 12; 3593.6; 04-JUN-2008 19:55:27; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;32747
 13; 3922.9; 04-JUN-2008 20:00:56; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;32747
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 15; 4644.3; 04-JUN-2008 20:12:58; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;32747
 16; 4885.1; 04-JUN-2008 20:16:58; Dark ; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;32747

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19; 5828.4; 04-JUN-2008 20:32:42; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;32747
20; 5991.9; 04-JUN-2008 20:35:25; Dark ; 70.5; 18; 24Alp PsA ; 1.17; 9700;occ; 141; 0;32747
21; 6165.0; 04-JUN-2008 20:38:18; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;32747
22; 6281.8; 04-JUN-2008 20:40:15; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;32747
23; 6564.3; 04-JUN-2008 20:44:58; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32747
24; 6994.7; 04-JUN-2008 20:52:08; Dark ; 3.5; 147; Alp Ara ; 2.88; 26000;occ; 7; 0;32747
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3; -205.7; 05-JUN-2008 01:34:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;32750
4; 131.7; 05-JUN-2008 01:40:09; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32751
5; 248.7; 05-JUN-2008 01:42:06; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;32751
6; 530.4; 05-JUN-2008 01:46:47; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32751
7; 960.0; 05-JUN-2008 01:53:57; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;32751
8; 1062.7; 05-JUN-2008 01:55:40; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32751
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11; 1387.4; 05-JUN-2008 02:01:04; Dark ; 48.0; 136; 23Tau Sco ; 2.82; 30000;occ; 96; 0;32751
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14; 2188.4; 10-JUN-2008 01:16:57; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;32822
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13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
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19; 2286.7; 10-JUN-2008 06:20:23; Bright; 56.0; 127; 27Bet Her ; 2.78; 4700;occ; 112; 0;32825
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3; 1297.5; 10-JUN-2008 21:09:17; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;32834
4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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14; 4406.8; 10-JUN-2008 22:01:06; Dark ; 53.0; 53; 43Bet And ; 2.05; 3300;occ; 106; 0;32834
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9; 1198.2; 10-JUN-2008 22:48:14; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;32835
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19; 3909.4; 11-JUN-2008 01:14:01; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;32836
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10; 322.1; 10-JUN-2008 07:28:14; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32826


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8; 2963.8; 14-JUN-2008 07:46:24; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;32883
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10; 3446.8; 14-JUN-2008 07:54:27; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;32883
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13; 4269.3; 14-JUN-2008 08:08:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32883
14; 4403.5; 14-JUN-2008 08:10:24; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;32883
15; 4616.8; 14-JUN-2008 08:13:57; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;32883
16; 4902.2; 14-JUN-2008 08:18:42; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;32883
17; 5609.3; 14-JUN-2008 08:30:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32883
18; 5922.5; 14-JUN-2008 08:35:43; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;32883
19; 6292.3; 14-JUN-2008 08:41:52; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32883
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21; 6959.8; 14-JUN-2008 08:53:00; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;32883
22; 7041.3; 14-JUN-2008 08:54:21; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;32883
23; 7146.3; 14-JUN-2008 08:56:06; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32883
24; 7249.4; 14-JUN-2008 08:57:49; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32883
25; 7337.6; 14-JUN-2008 08:59:18; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32883
26; 7504.6; 14-JUN-2008 09:02:05; Bright; 36.0; 156; 20Sig Sco ; 2.90; 28000;occ; 72; 0;32883
27; 7647.9; 14-JUN-2008 09:04:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
28; 7752.3; 14-JUN-2008 09:06:12; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32883
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3; 2278.7; 14-JUN-2008 09:15:35; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32884
4; 2367.1; 14-JUN-2008 09:17:03; Bright; 33.5; 67; 5Alp CrB ; 2.22; 11000;occ; 67; 0;32884

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6; 2874.7; 14-JUN-2008 09:25:31; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32884
7; 2963.7; 14-JUN-2008 09:27:00; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32884
8; 3168.7; 14-JUN-2008 09:30:25; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32884
9; 3446.7; 14-JUN-2008 09:35:03; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32884
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11; 4061.3; 14-JUN-2008 09:45:17; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32884
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13; 4403.8; 14-JUN-2008 09:51:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;32884
14; 4617.0; 14-JUN-2008 09:54:33; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32884
15; 4902.4; 14-JUN-2008 09:59:18; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;32884
16; 5609.6; 14-JUN-2008 10:11:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32884
17; 5923.3; 14-JUN-2008 10:16:19; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;32884
18; 6293.3; 14-JUN-2008 10:22:29; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;32884
19; 6652.4; 14-JUN-2008 10:28:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32884
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21; 7041.6; 14-JUN-2008 10:34:58; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32884
22; 7146.6; 14-JUN-2008 10:36:43; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32884
23; 7249.7; 14-JUN-2008 10:38:26; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32884
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25; 7504.7; 14-JUN-2008 10:42:41; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32884
26; 7647.8; 14-JUN-2008 10:45:04; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;32884
27; 7752.5; 14-JUN-2008 10:46:48; Bright; 23.5; 98; 13Zet Oph ; 2.57; 30000;occ; 47; 0;32884

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3; 2024.7; 14-JUN-2008 10:51:57; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;32885
4; 2278.6; 14-JUN-2008 10:56:10; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;32885
5; 2367.1; 14-JUN-2008 10:57:39; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32885
6; 2462.2; 14-JUN-2008 10:59:14; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32885
7; 2874.4; 14-JUN-2008 11:06:06; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;32885
8; 2963.5; 14-JUN-2008 11:07:35; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32885
9; 3168.8; 14-JUN-2008 11:11:01; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;32885
10; 3446.7; 14-JUN-2008 11:15:39; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32885
11; 3900.2; 14-JUN-2008 11:23:12; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;32885
12; 4061.3; 14-JUN-2008 11:25:53; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;32885
13; 4269.4; 14-JUN-2008 11:29:21; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32885
14; 4403.8; 14-JUN-2008 11:31:36; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;32885
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16; 4902.6; 14-JUN-2008 11:39:54; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;32885
17; 5609.9; 14-JUN-2008 11:51:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32885
18; 5924.0; 14-JUN-2008 11:56:56; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;32885
19; 6294.2; 14-JUN-2008 12:03:06; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32885
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21; 6960.2; 14-JUN-2008 12:14:12; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;32885
22; 7041.9; 14-JUN-2008 12:15:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32885
23; 7146.9; 14-JUN-2008 12:17:19; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32885
24; 7249.8; 14-JUN-2008 12:19:02; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32885
25; 7338.1; 14-JUN-2008 12:20:30; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32885
26; 7504.9; 14-JUN-2008 12:23:17; Bright; 37.0; 156; 20Sig Sco ; 2.90; 28000;occ; 74; 0;32885
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3; 1842.7; 14-JUN-2008 12:29:30; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32886
4; 2024.8; 14-JUN-2008 12:32:33; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;32886
5; 2278.4; 14-JUN-2008 12:36:46; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32886
6; 2367.3; 14-JUN-2008 12:38:15; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32886
7; 2462.0; 14-JUN-2008 12:39:50; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;32886
8; 2873.9; 14-JUN-2008 12:46:42; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32886
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11; 3446.7; 14-JUN-2008 12:56:14; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;32886
12; 3900.0; 14-JUN-2008 13:03:48; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32886
13; 4061.4; 14-JUN-2008 13:06:29; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;32886
14; 4269.3; 14-JUN-2008 13:09:57; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;32886
15; 4404.1; 14-JUN-2008 13:12:12; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;32886
16; 4617.4; 14-JUN-2008 13:15:45; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;32886

17; 4903.0; 14-JUN-2008 13:20:31; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32886
 18; 5610.3; 14-JUN-2008 13:32:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32886
 19; 5924.8; 14-JUN-2008 13:37:33; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;32886
 20; 6295.2; 14-JUN-2008 13:43:43; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32886
 21; 6653.6; 14-JUN-2008 13:49:41; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32886
 22; 6960.5; 14-JUN-2008 13:54:48; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;32886
 23; 7042.2; 14-JUN-2008 13:56:10; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32886
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 25; 7250.3; 14-JUN-2008 13:59:38; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32886
 26; 7338.3; 14-JUN-2008 14:01:06; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32886
 27; 7505.0; 14-JUN-2008 14:03:53; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32886

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 5; 2278.4; 14-JUN-2008 14:17:22; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;32887
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 11; 3446.8; 14-JUN-2008 14:36:50; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;32887
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 20; 6296.2; 14-JUN-2008 15:24:20; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32887
 21; 6654.3; 14-JUN-2008 15:30:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32887
 22; 6960.9; 14-JUN-2008 15:35:25; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32887
 23; 7042.5; 14-JUN-2008 15:36:46; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32887
 24; 7147.6; 14-JUN-2008 15:38:31; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32887
 25; 7250.7; 14-JUN-2008 15:40:14; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;32887
 26; 7338.5; 14-JUN-2008 15:41:42; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32887

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 4; 1716.9; 14-JUN-2008 15:48:36; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32888
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 6; 2025.1; 14-JUN-2008 15:53:45; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;32888
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 12; 3169.1; 14-JUN-2008 16:12:49; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32888
 13; 3446.7; 14-JUN-2008 16:17:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32888
 14; 3899.6; 14-JUN-2008 16:24:59; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32888
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 19; 4903.6; 14-JUN-2008 16:41:43; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32888
 20; 5611.0; 14-JUN-2008 16:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32888
 21; 5926.4; 14-JUN-2008 16:58:46; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;32888
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 23; 6655.0; 14-JUN-2008 17:10:55; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32888
 24; 6961.2; 14-JUN-2008 17:16:01; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;32888
 25; 7043.0; 14-JUN-2008 17:17:23; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32888
 26; 7147.9; 14-JUN-2008 17:19:08; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32888

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23; 6664.1; 15-JUN-2008 18:20:03; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32903
24; 6965.3; 15-JUN-2008 18:25:04; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;32903
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4; 2274.1; 21-JUN-2008 10:35:59; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32985
5; 2448.7; 21-JUN-2008 10:38:54; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32985
6; 2839.2; 21-JUN-2008 10:45:24; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32985
7; 2953.9; 21-JUN-2008 10:47:19; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32985
8; 3176.1; 21-JUN-2008 10:51:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32985
9; 3446.2; 21-JUN-2008 10:55:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32985
10; 3876.4; 21-JUN-2008 11:02:41; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32985
11; 4065.0; 21-JUN-2008 11:05:50; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;32985
12; 4271.0; 21-JUN-2008 11:09:16; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32985
13; 4413.9; 21-JUN-2008 11:11:39; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;32985
14; 4641.1; 21-JUN-2008 11:15:26; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32985
15; 4929.7; 21-JUN-2008 11:20:15; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32985

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 13; 4271.0; 21-JUN-2008 12:49:52; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32986
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 15; 4641.4; 21-JUN-2008 12:56:02; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;32986
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 22; 7176.3; 21-JUN-2008 13:38:17; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;32986
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 3; 1991.9; 21-JUN-2008 13:52:28; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32987
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 5; 2274.2; 21-JUN-2008 13:57:11; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32987
 6; 2448.5; 21-JUN-2008 14:00:05; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32987
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 8; 2953.9; 21-JUN-2008 14:08:30; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32987
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 23; 7277.9; 21-JUN-2008 15:20:34; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32987
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 3; 1728.6; 21-JUN-2008 15:28:41; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32988
 4; 1991.7; 21-JUN-2008 15:33:04; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32988
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 6; 2274.3; 21-JUN-2008 15:37:47; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32988
 7; 2448.5; 21-JUN-2008 15:40:41; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32988
 8; 2838.5; 21-JUN-2008 15:47:11; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32988

9; 2953.9; 21-JUN-2008 15:49:06; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32988
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 11; 3446.4; 21-JUN-2008 15:57:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;32988
 12; 3875.7; 21-JUN-2008 16:04:28; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;32988
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 14; 4271.1; 21-JUN-2008 16:11:04; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;32988
 15; 4414.3; 21-JUN-2008 16:13:27; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;32988
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 4; 1728.6; 21-JUN-2008 17:09:17; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32989
 5; 1991.7; 21-JUN-2008 17:13:40; Bright; 59.0; 126; 60Bet Oph ; 2.77; 4250;occ; 118; 0;32989
 6; 2136.9; 21-JUN-2008 17:16:05; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;32989
 7; 2274.3; 21-JUN-2008 17:18:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32989
 8; 2448.4; 21-JUN-2008 17:21:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32989
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 10; 2953.8; 21-JUN-2008 17:29:42; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32989
 11; 3176.5; 21-JUN-2008 17:33:25; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;32989
 12; 3446.4; 21-JUN-2008 17:37:55; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;32989
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 15; 4271.1; 21-JUN-2008 17:51:40; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;32989
 16; 4414.4; 21-JUN-2008 17:54:03; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;32989
 17; 4642.2; 21-JUN-2008 17:57:51; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32989
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 4; 1322.8; 21-JUN-2008 18:43:07; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;32990
 5; 1625.1; 21-JUN-2008 18:48:10; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32990
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5; 1035.8; 22-JUN-2008 01:20:44; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32994
6; 1142.1; 22-JUN-2008 01:22:30; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32994
7; 1243.4; 22-JUN-2008 01:24:12; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32994
8; 1323.9; 22-JUN-2008 01:25:32; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;32994
9; 1399.9; 22-JUN-2008 01:26:48; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;32994
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11; 1729.3; 22-JUN-2008 01:32:17; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32994
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17; 6024.0; 23-JUN-2008 08:54:39; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33012
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3; 2132.7; 23-JUN-2008 09:30:24; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33013
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9; 3446.2; 23-JUN-2008 09:52:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33013
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13; 4416.4; 23-JUN-2008 10:08:27; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;33013
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3; 392.1; 24-JUN-2008 00:06:46; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33022
4; 695.9; 24-JUN-2008 00:11:50; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33022
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7; 1331.6; 24-JUN-2008 00:22:26; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33022
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16; 3179.6; 24-JUN-2008 00:53:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33022
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9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
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13; 4270.8; 23-JUN-2008 11:46:37; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;33014
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22; 7284.4; 23-JUN-2008 12:36:51; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33014
23; 7365.8; 23-JUN-2008 12:38:12; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33014
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6; 2446.9; 23-JUN-2008 12:56:50; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33015
7; 2830.9; 23-JUN-2008 13:03:13; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33015
8; 2952.6; 23-JUN-2008 13:05:15; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33015
9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
10; 3446.2; 23-JUN-2008 13:13:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33015
11; 3867.9; 23-JUN-2008 13:20:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;33015
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13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
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7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
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9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017
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15; 2129.0; 25-JUN-2008 05:05:54; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33039
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9; 705.6; 25-JUN-2008 06:22:47; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33040
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