

GOMOS Daily Report 25-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	27JUN2008 05:32:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

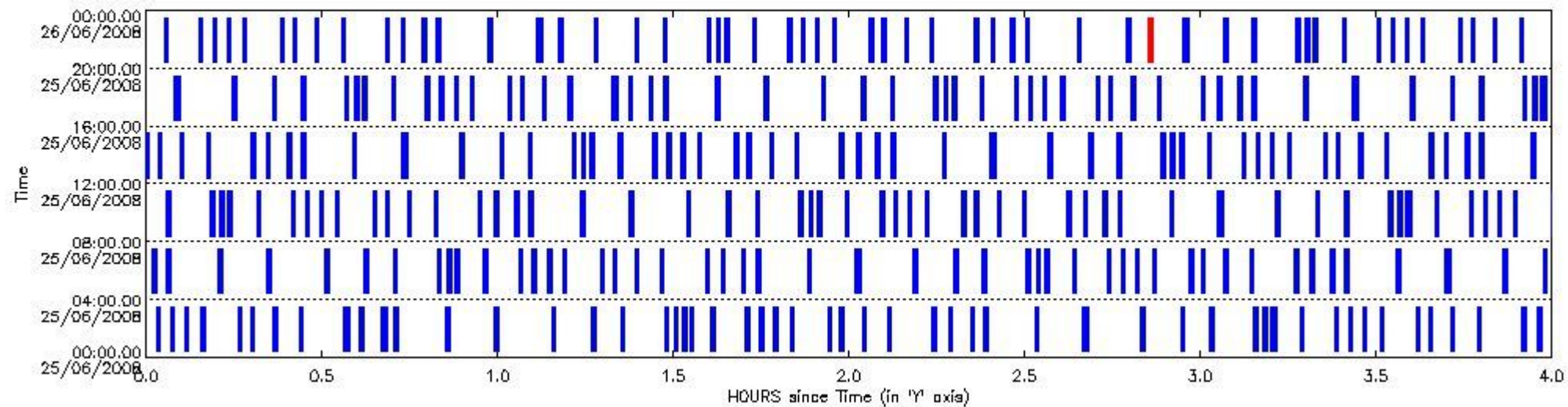
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

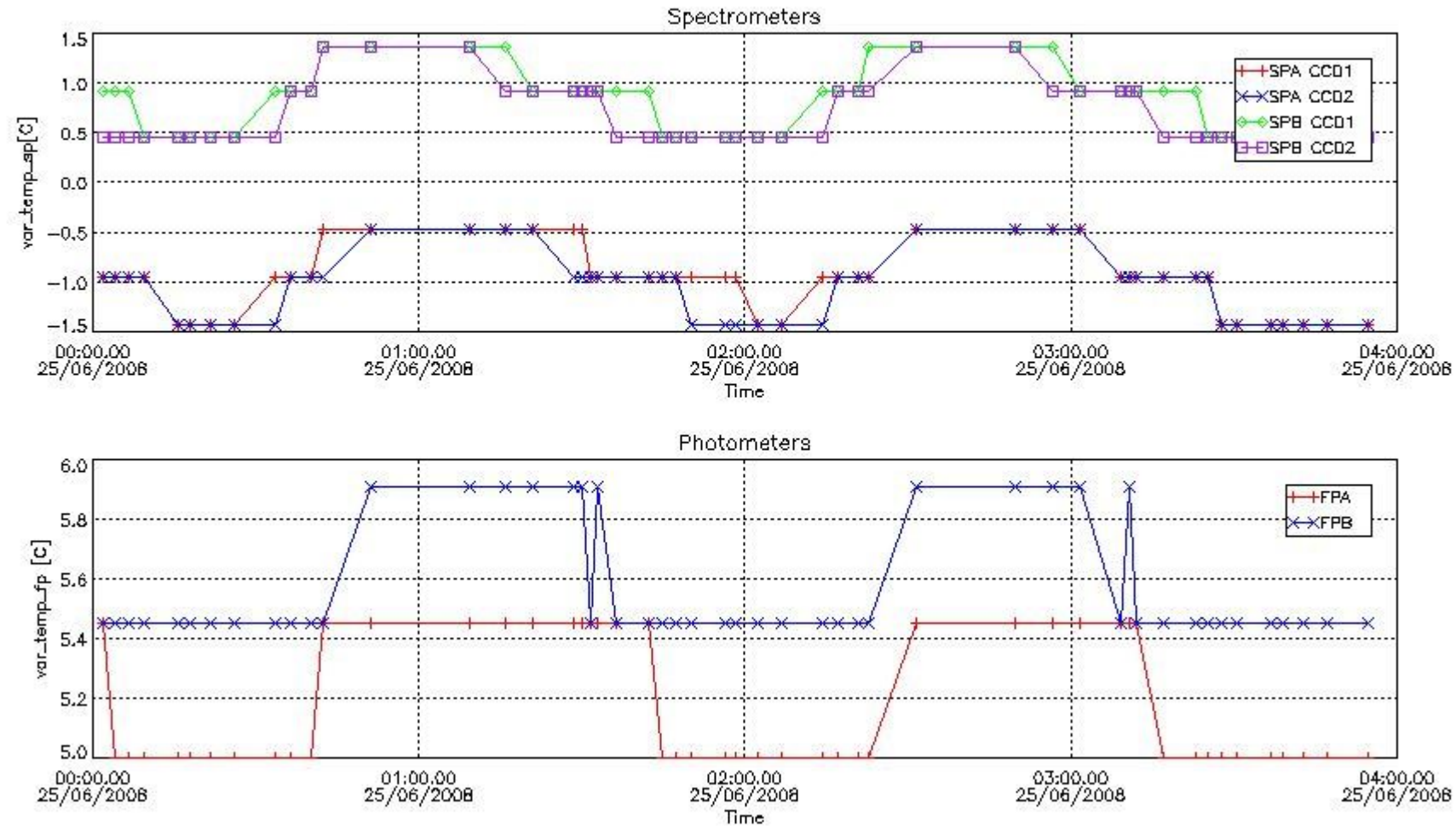
UTC start time	Star name	Star ID	Orbit
25-JUN-2008 22:51:00	The1Eri	157	33049

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_1PNPDE20080625_000144_000000392069_00417_33036_8130.N1	25-JUN-2008 00:01:44	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	33036	No
2	GOM_TRA_1PNPDE20080625_000406_000000392069_00417_33036_8131.N1	25-JUN-2008 00:04:06	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	33036	No
3	GOM_TRA_1PNPDE20080625_000633_000000352069_00417_33036_8132.N1	25-JUN-2008 00:06:33	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	33036	No
4	GOM_TRA_1PNPDE20080625_000923_000000382069_00417_33036_8133.N1	25-JUN-2008 00:09:23	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	33036	No
5	GOM_TRA_1PNPDE20080625_001543_000000372069_00417_33036_8134.N1	25-JUN-2008 00:15:43	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	33036	No
6	GOM_TRA_1PNPDE20080625_001749_000000332069_00417_33036_8135.N1	25-JUN-2008 00:17:49	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	33036	No
7	GOM_TRA_1PNPDE20080625_002138_000000382069_00417_33036_8136.N1	25-JUN-2008 00:21:38	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	33036	No
8	GOM_TRA_1PNPDE20080625_002603_000000322069_00417_33036_8137.N1	25-JUN-2008 00:26:03	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33036	No
9	GOM_TRA_1PNPDE20080625_003336_000000602069_00417_33036_8138.N1	25-JUN-2008 00:33:36	Bright	60.000	110	37Del Cas	2.6780	8900.0	120	33036	No
10	GOM_TRA_1PNPDE20080625_003622_000000422069_00417_33036_8139.N1	25-JUN-2008 00:36:22	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	33036	No

11	GOM_TRA_1PNPDE20080625_004007_000000552069_00417_33036_8140.N1	25-JUN-2008 00:40:07	Bright	55.000	79	26Bet Per	2.3100	13100.	110	33036	No
12	GOM_TRA_1PNPDE20080625_004215_000000462069_00417_33036_8141.N1	25-JUN-2008 00:42:15	Twilight	46.000	173	4Bet Tri	3.0040	8900.0	92	33036	No
13	GOM_TRA_1PNPDE20080625_005103_000000452069_00417_33036_8142.N1	25-JUN-2008 00:51:03	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	33036	No
14	GOM_TRA_1PNPDE20080625_010911_000000442069_00418_33037_8272.N1	25-JUN-2008 01:09:11	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33037	No
15	GOM_TRA_1PNPDE20080625_011600_000000452069_00418_33037_8273.N1	25-JUN-2008 01:16:00	Straylight	45.000	63	Bet Gru	2.1500	2800.0	90	33037	No
16	GOM_TRA_1PNPDE20080625_012057_000000432069_00418_33037_8274.N1	25-JUN-2008 01:20:57	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	33037	No
17	GOM_TRA_1PNPDE20080625_012826_000000412069_00418_33037_8275.N1	25-JUN-2008 01:28:26	Twilight	41.000	40	The Sco	1.8590	7100.0	82	33037	No
18	GOM_TRA_1PNPDE20080625_013007_000000382069_00418_33037_8276.N1	25-JUN-2008 01:30:07	Twilight	38.000	25	35Lam Sco	1.6200	28000.	76	33037	No
19	GOM_TRA_1PNPDE20080625_013129_000000572069_00418_33037_8277.N1	25-JUN-2008 01:31:29	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	33037	No
20	GOM_TRA_1PNPDE20080625_013243_000000442069_00418_33037_8278.N1	25-JUN-2008 01:32:43	Bright	43.500	137	22Lam Sgr	2.8240	4400.0	87	33037	No
21	GOM_TRA_1PNPDE20080625_013624_000000382069_00418_33037_8279.N1	25-JUN-2008 01:36:24	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	33037	No
22	GOM_TRA_1PNPDE20080625_014219_000000392069_00418_33037_8280.N1	25-JUN-2008 01:42:19	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	33037	No
23	GOM_TRA_1PNPDE20080625_014442_000000402069_00418_33037_8281.N1	25-JUN-2008 01:44:42	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	33037	No
24	GOM_TRA_1PNPDE20080625_014709_000000372069_00418_33037_8282.N1	25-JUN-2008 01:47:09	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	33037	No
25	GOM_TRA_1PNPDE20080625_014959_000000372069_00418_33037_8283.N1	25-JUN-2008 01:49:59	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	33037	No
26	GOM_TRA_1PNPDE20080625_015618_000000392069_00418_33037_8284.N1	25-JUN-2008 01:56:18	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	33037	No
27	GOM_TRA_1PNPDE20080625_015825_000000362069_00418_33037_8285.N1	25-JUN-2008 01:58:25	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	33037	No
28	GOM_TRA_1PNPDE20080625_020214_000000362069_00418_33037_8286.N1	25-JUN-2008 02:02:14	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	33037	No
29	GOM_TRA_1PNPDE20080625_020639_000000352069_00418_33037_8287.N1	25-JUN-2008 02:06:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33037	No
30	GOM_TRA_1PNPDE20080625_021412_000000452069_00418_33037_8431.N1	25-JUN-2008 02:14:12	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	33037	No
31	GOM_TRA_1PNPDE20080625_021658_000000412069_00418_33037_8432.N1	25-JUN-2008 02:16:58	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	33037	No
32	GOM_TRA_1PNPDE20080625_022043_000000372069_00418_33037_8433.N1	25-JUN-2008 02:20:43	Bright	36.500	79	26Bet Per	2.3100	13100.	73	33037	No
33	GOM_TRA_1PNPDE20080625_022251_000000472069_00418_33037_8434.N1	25-JUN-2008 02:22:51	Twilight	46.500	173	4Bet Tri	3.0040	8900.0	93	33037	No
34	GOM_TRA_1PNPDE20080625_023140_000000462069_00418_33037_8435.N1	25-JUN-2008 02:31:40	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	33037	No
35	GOM_TRA_1PNPDE20080625_024948_000000422069_00419_33038_8436.N1	25-JUN-2008 02:49:48	Dark	41.500	9	Alp Eri	0.45300	24000.	83	33038	No
36	GOM_TRA_1PNPDE20080625_025637_000000442069_00419_33038_8437.N1	25-JUN-2008 02:56:37	Straylight	44.000	63	Bet Gru	2.1500	2800.0	88	33038	No
37	GOM_TRA_1PNPDE20080625_030133_000000422069_00419_33038_8438.N1	25-JUN-2008 03:01:33	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33038	No
38	GOM_TRA_1PNPDE20080625_030902_000000422069_00419_33038_8439.N1	25-JUN-2008 03:09:02	Twilight	41.500	40	The Sco	1.8590	7100.0	83	33038	No
39	GOM_TRA_1PNPDE20080625_031043_000000412069_00419_33038_8440.N1	25-JUN-2008 03:10:43	Twilight	41.000	25	35Lam Sco	1.6200	28000.	82	33038	No
40	GOM_TRA_1PNPDE20080625_031205_000000542069_00419_33038_8441.N1	25-JUN-2008 03:12:05	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	33038	No
41	GOM_TRA_1PNPDE20080625_031700_000000372069_00419_33038_8442.N1	25-JUN-2008 03:17:00	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33038	No
42	GOM_TRA_1PNPDE20080625_032255_000000392069_00419_33038_8443.N1	25-JUN-2008 03:22:55	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	33038	No
43	GOM_TRA_1PNPDE20080625_032518_000000392069_00419_33038_8444.N1	25-JUN-2008 03:25:18	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	33038	No
44	GOM_TRA_1PNPDE20080625_032745_000000352069_00419_33038_8445.N1	25-JUN-2008 03:27:45	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	33038	No
45	GOM_TRA_1PNPDE20080625_033035_000000342069_00419_33038_8446.N1	25-JUN-2008 03:30:35	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	33038	No
46	GOM_TRA_1PNPDE20080625_033654_000000362069_00419_33038_8447.N1	25-JUN-2008 03:36:54	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	33038	No
47	GOM_TRA_1PNPDE20080625_033901_000000352069_00419_33038_8448.N1	25-JUN-2008 03:39:01	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	33038	No
48	GOM_TRA_1PNPDE20080625_034250_000000332069_00419_33038_8449.N1	25-JUN-2008 03:42:50	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	33038	No
49	GOM_TRA_1PNPDE20080625_034715_000000352069_00419_33038_8450.N1	25-JUN-2008 03:47:15	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33038	No
50	GOM_TRA_1PNPDE20080625_035447_000000432069_00419_33038_8586.N1	25-JUN-2008 03:54:47	Bright	43.000	110	37Del Cas	2.6780	8900.0	86	33038	No

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



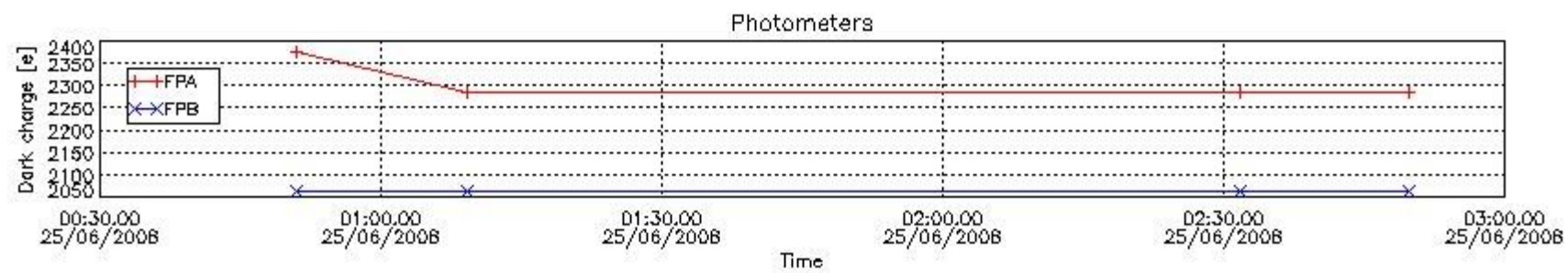
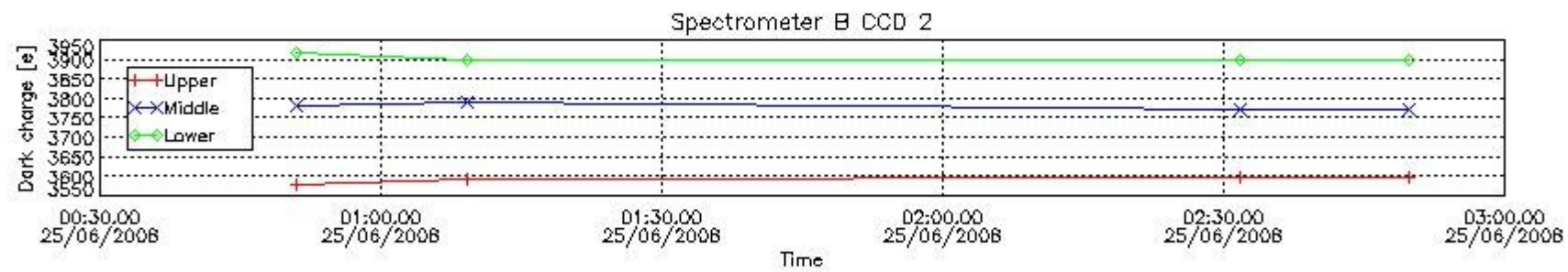
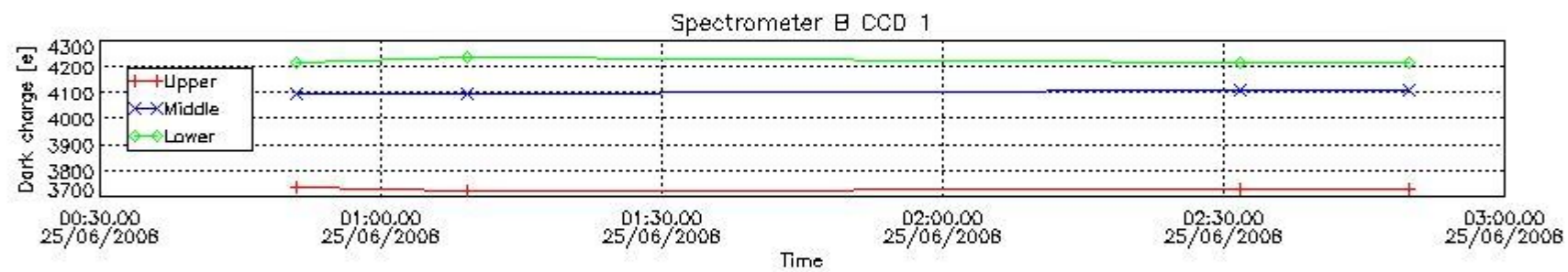
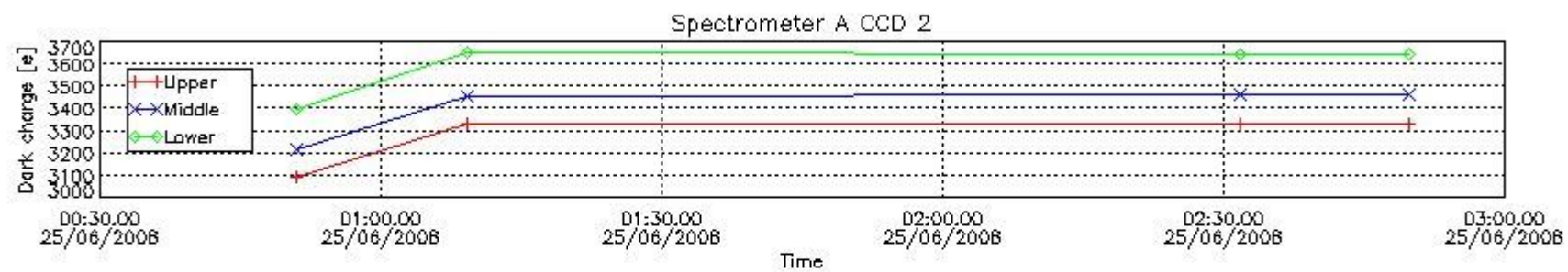
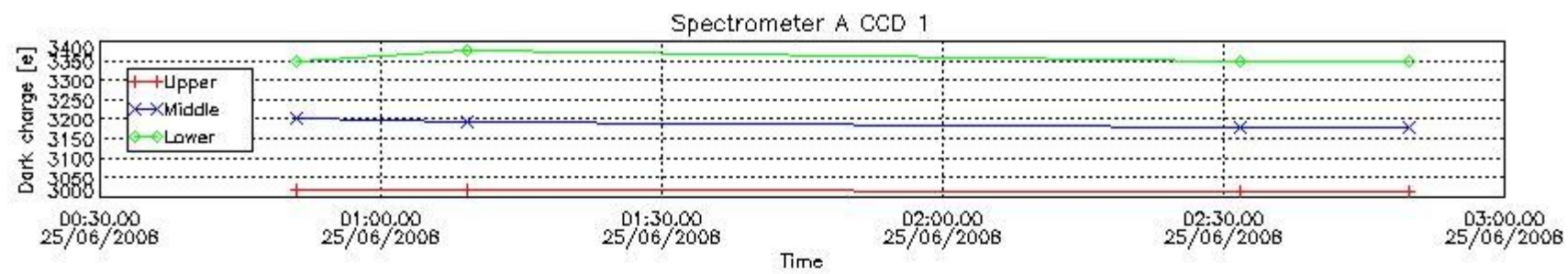
4. Overview of dark signal processing per product

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



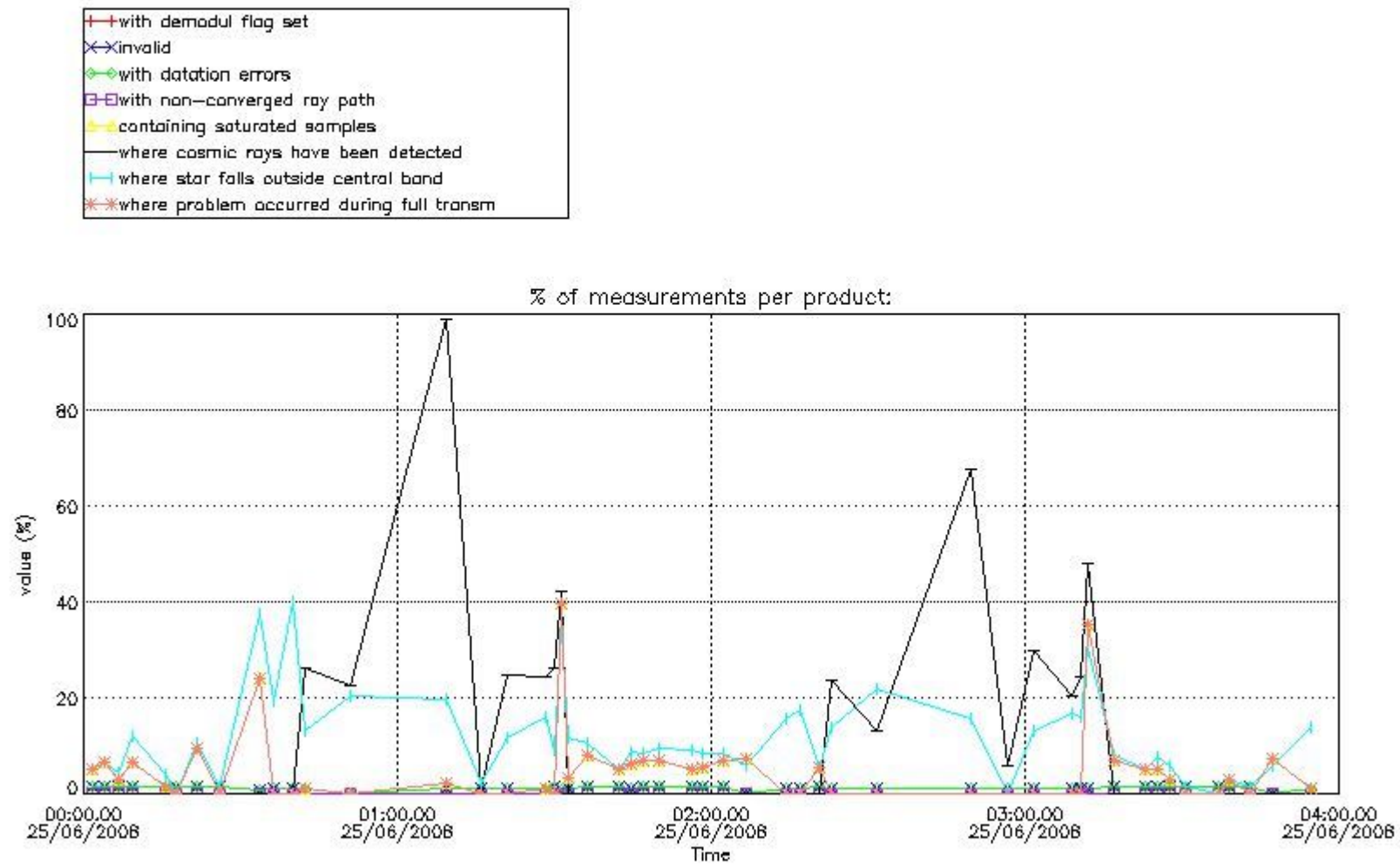
5. Demodulation flag and quality information monitoring

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.

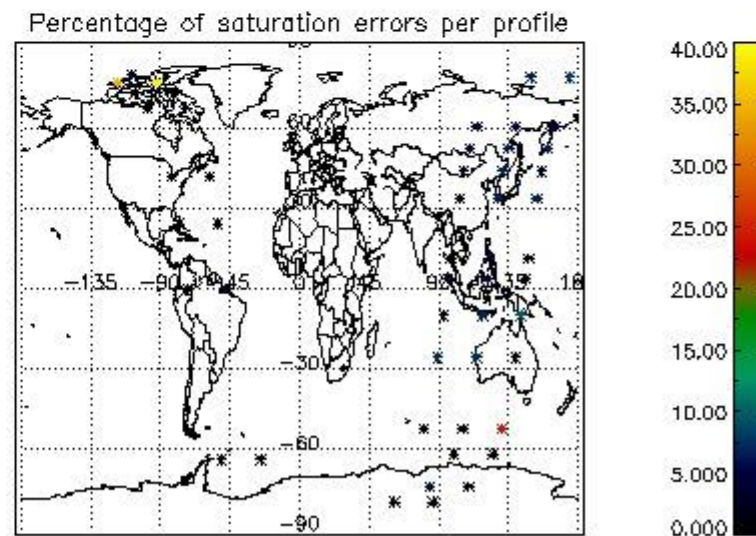
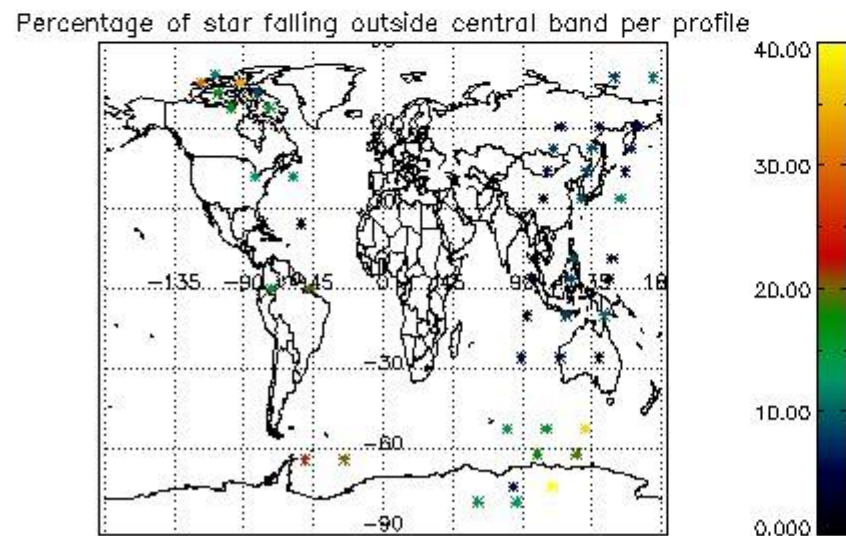
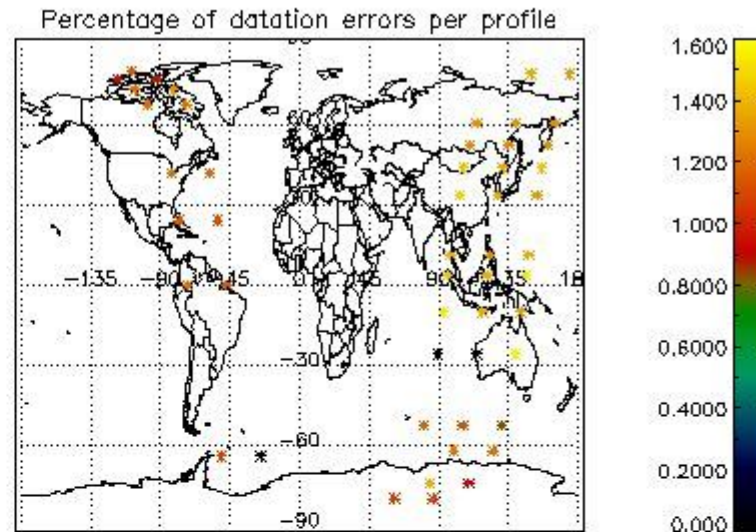
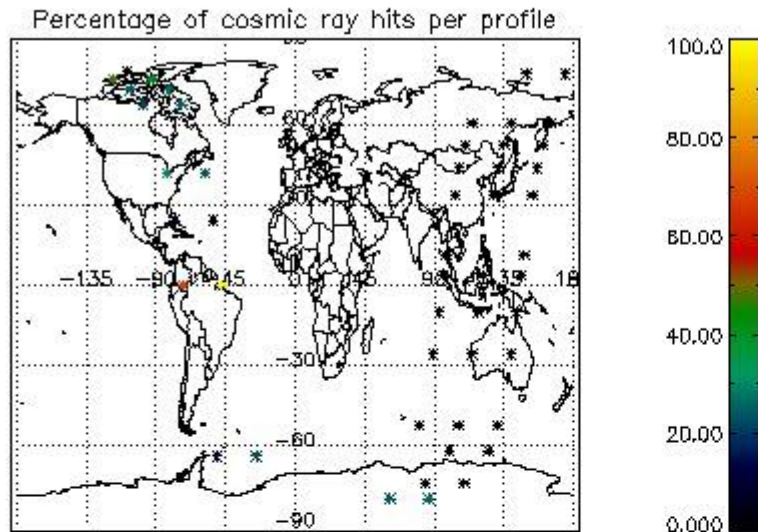
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
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)



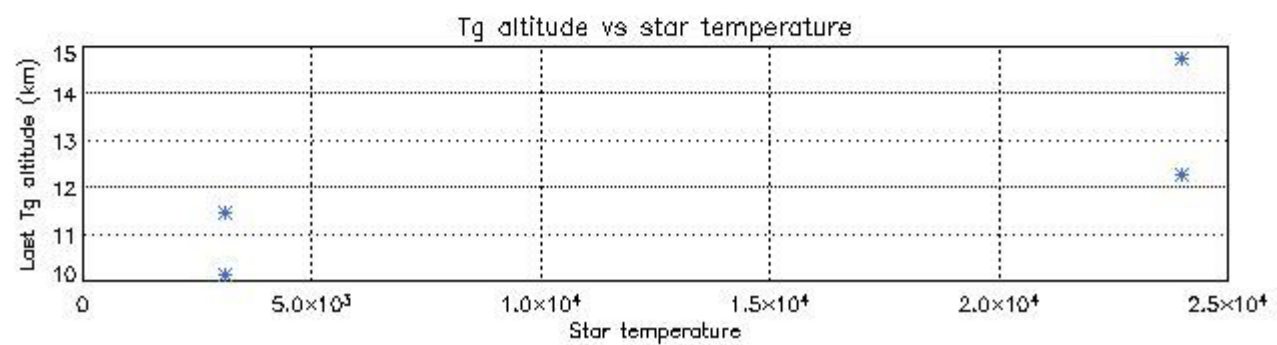
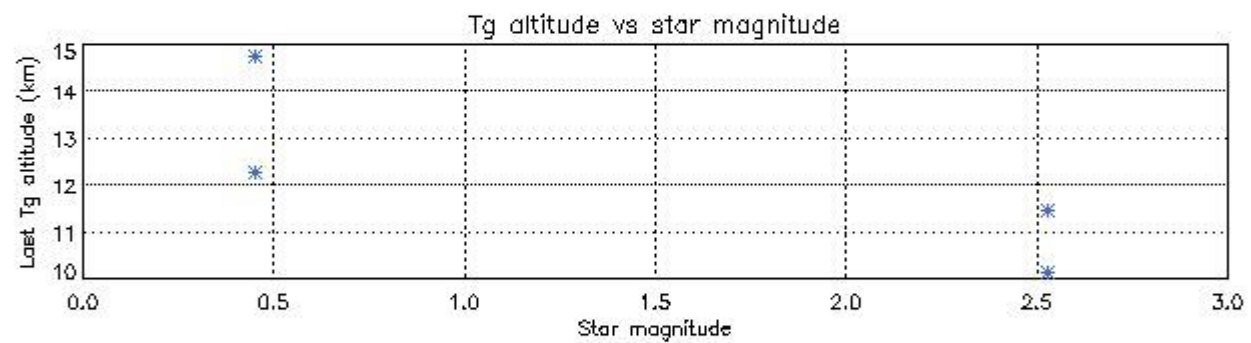
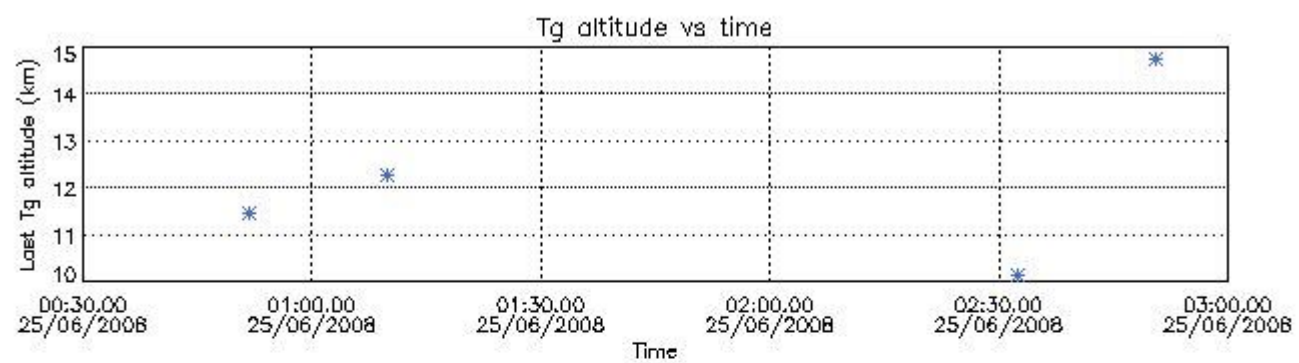
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.144	19.166	NaN
St. deviation:	1.9370	6.2539	NaN
Maximum:	14.734	29.431	NaN
Minimum:	10.131	3.7742	NaN
Number of data:	4.0000	36.000	NaN

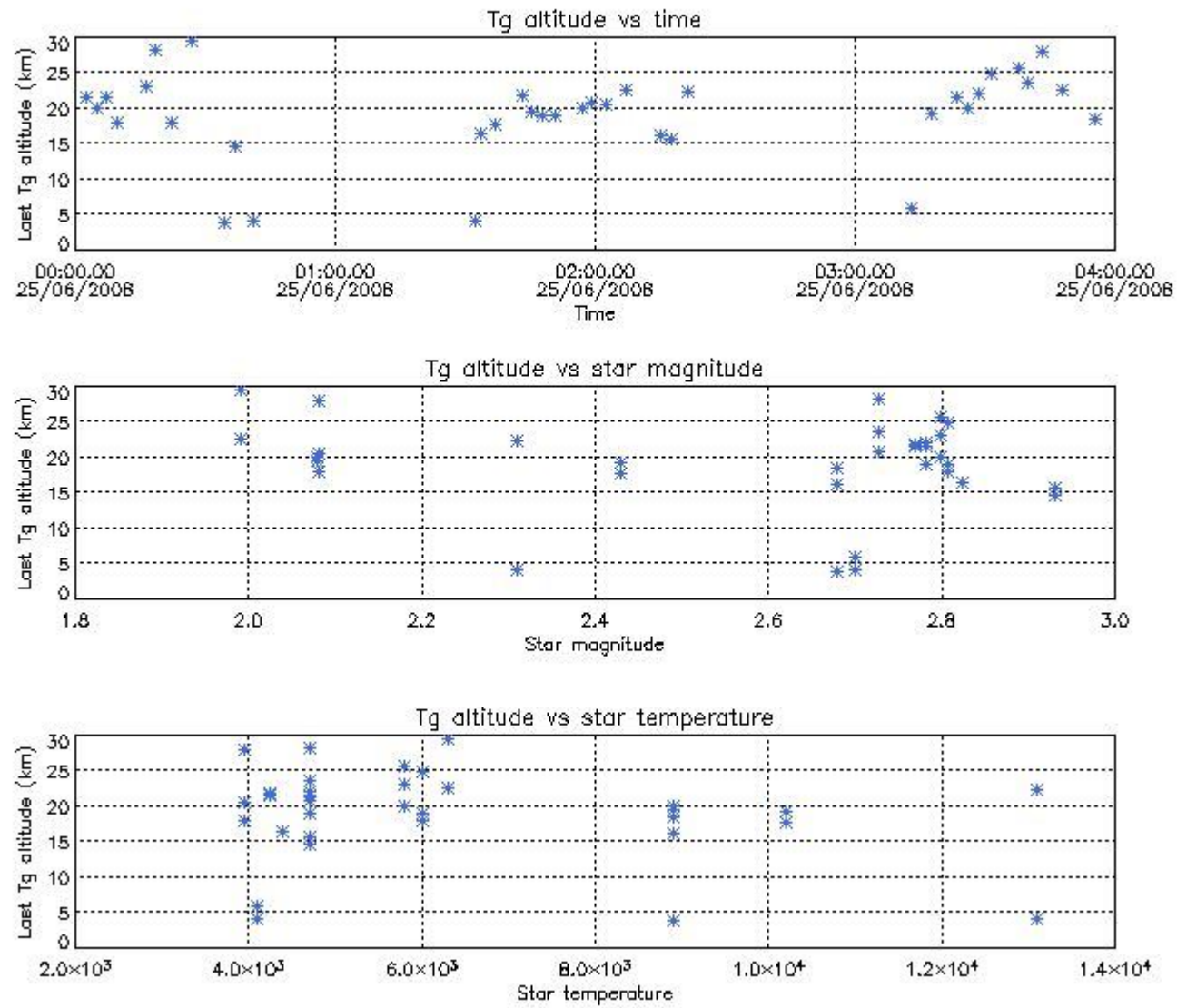
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

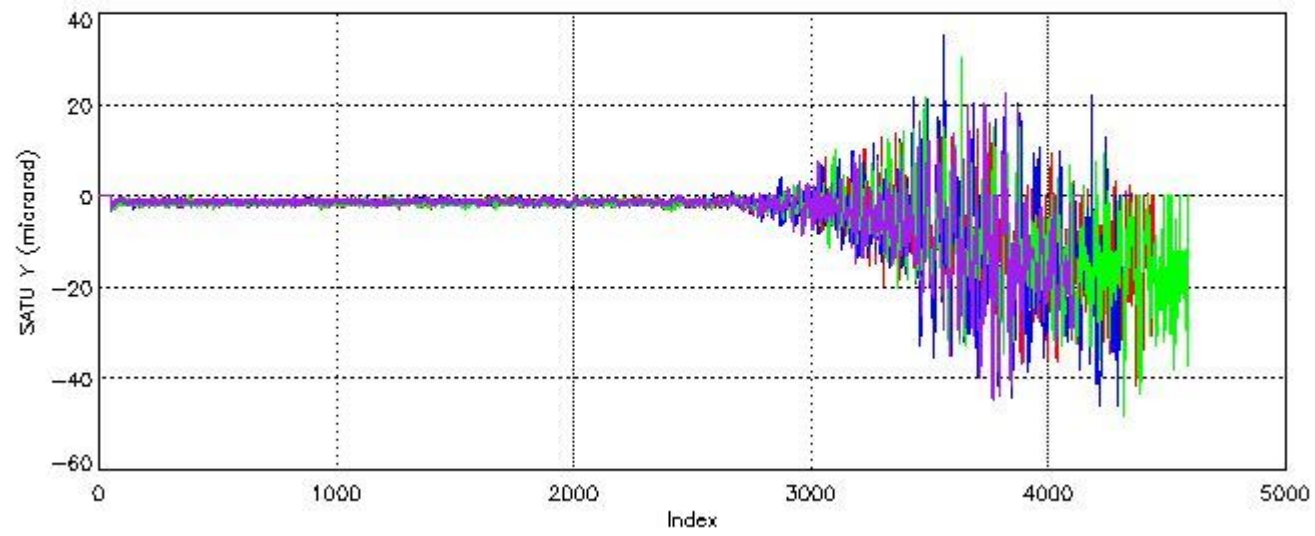
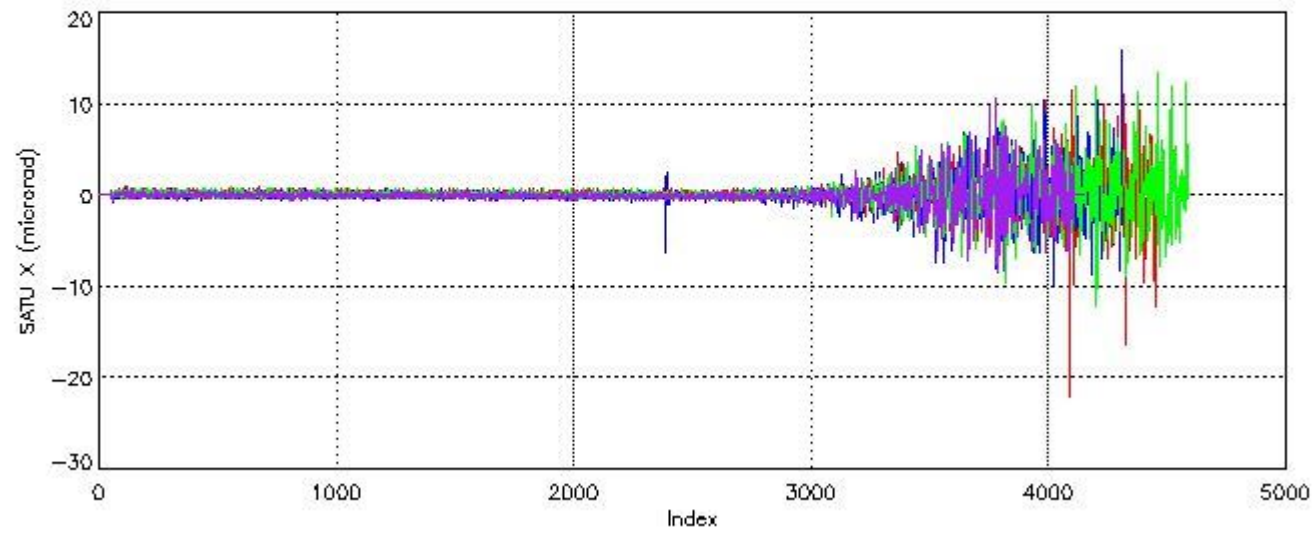


7. Star Acquisition and Tracking Unit (SATU)

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:	0.064306	-1.3501	0.12499	-1.3267
St. deviation:	0.21684	0.54257	0.73725	1.1798
Maximum:	0.90000	0.0000	4.5000	3.3000
Minimum:	-0.80000	-3.5000	-3.6000	-6.4000

Number of data:	3600.0	3600.0	30700.	30700.
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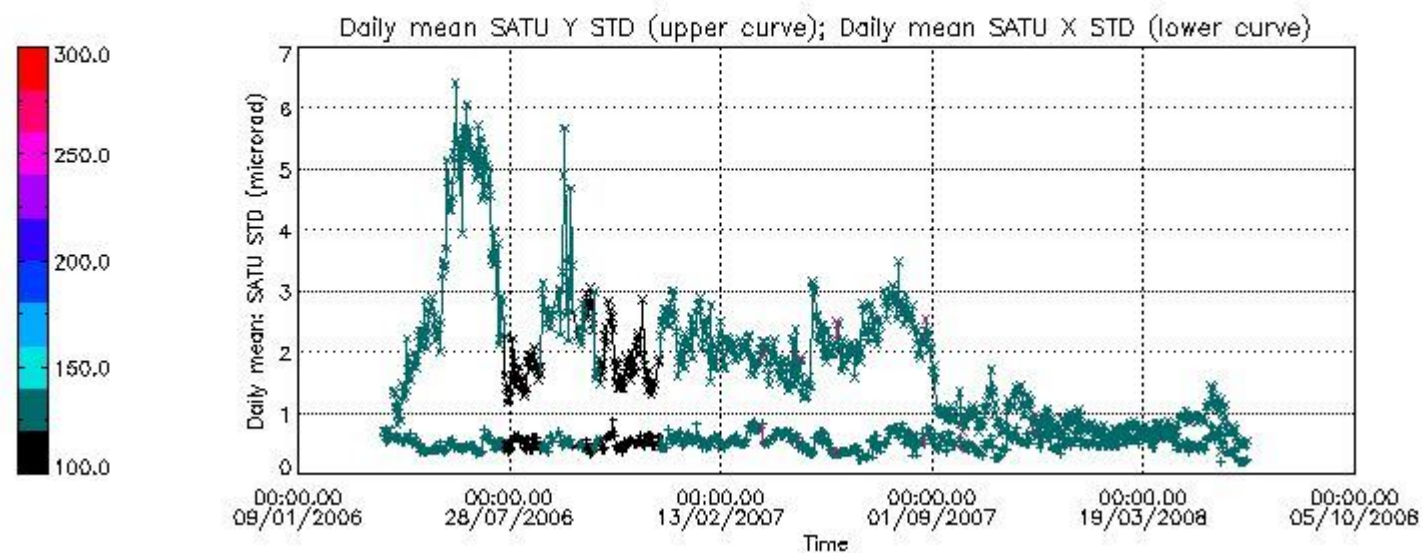
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

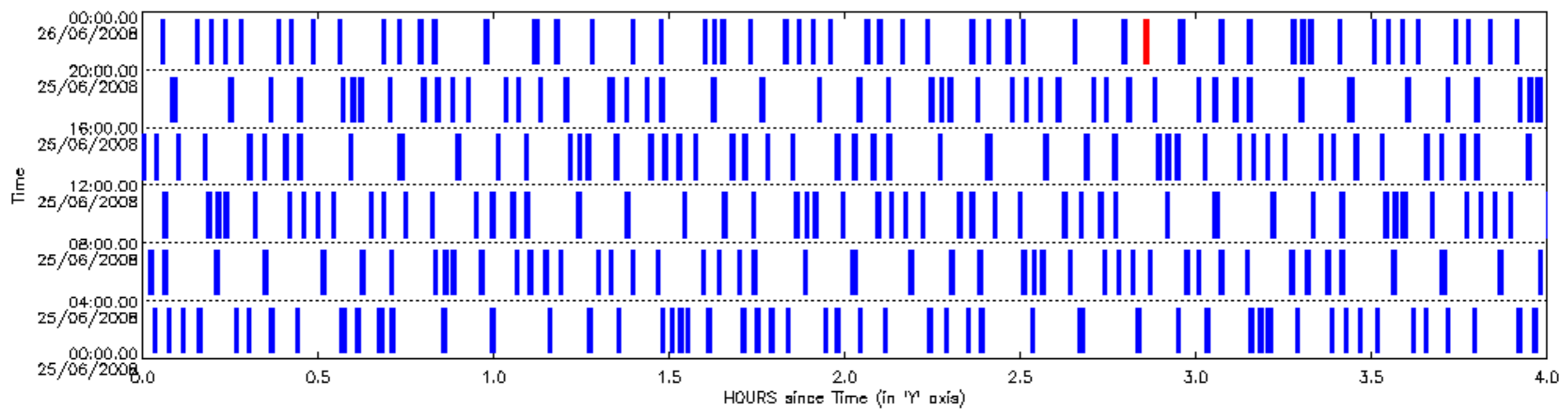
Lower curve: STD of SATU X axis

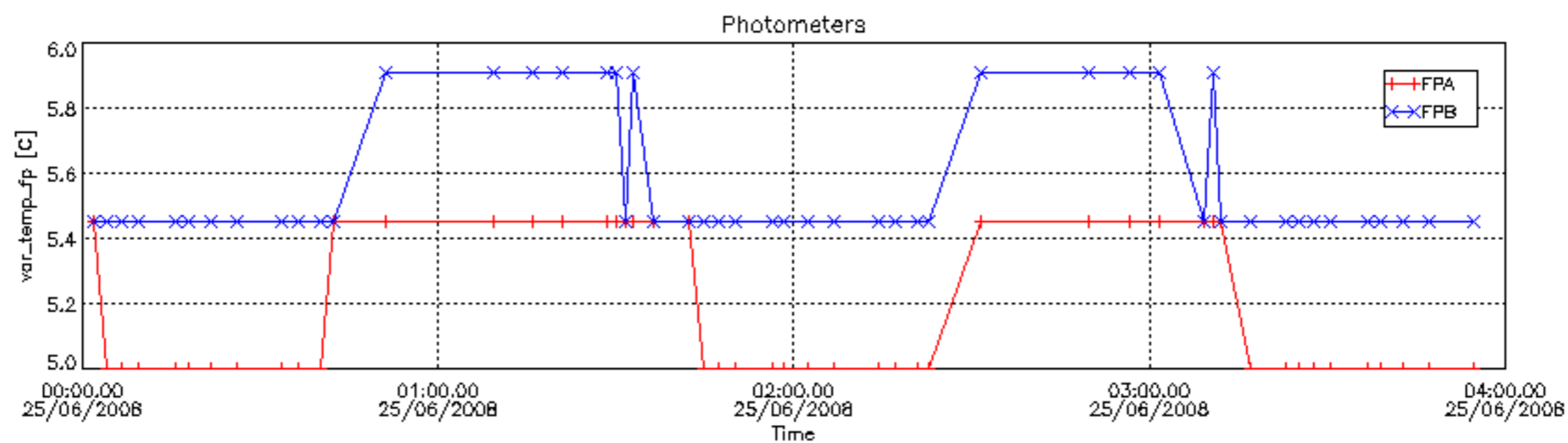
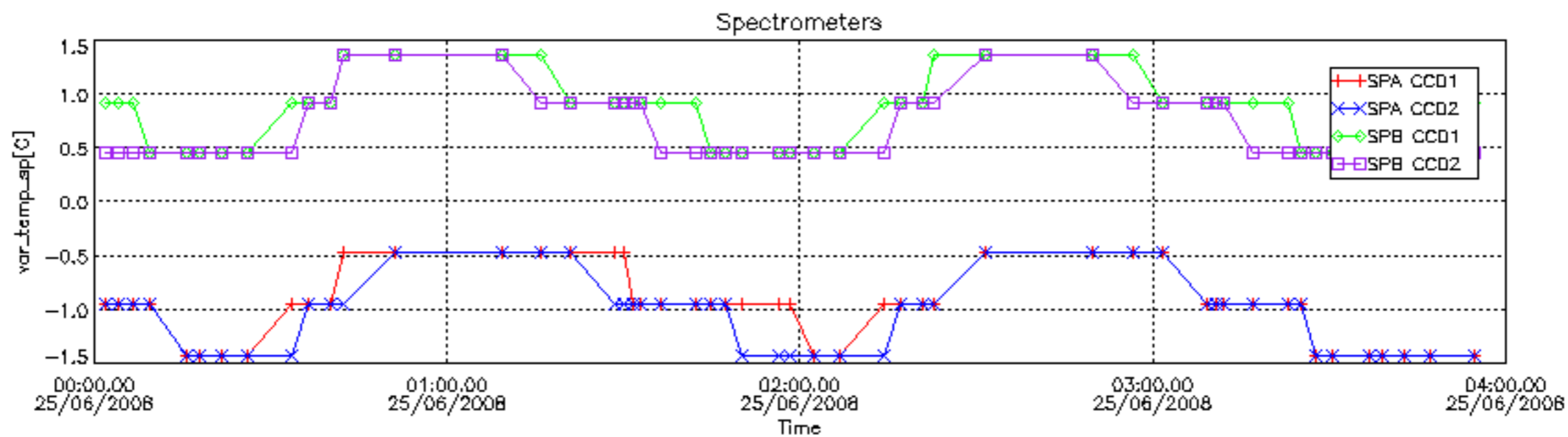


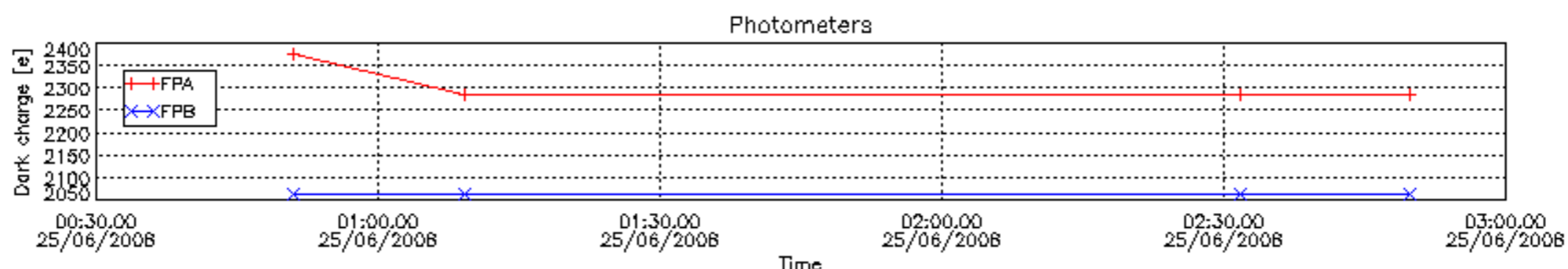
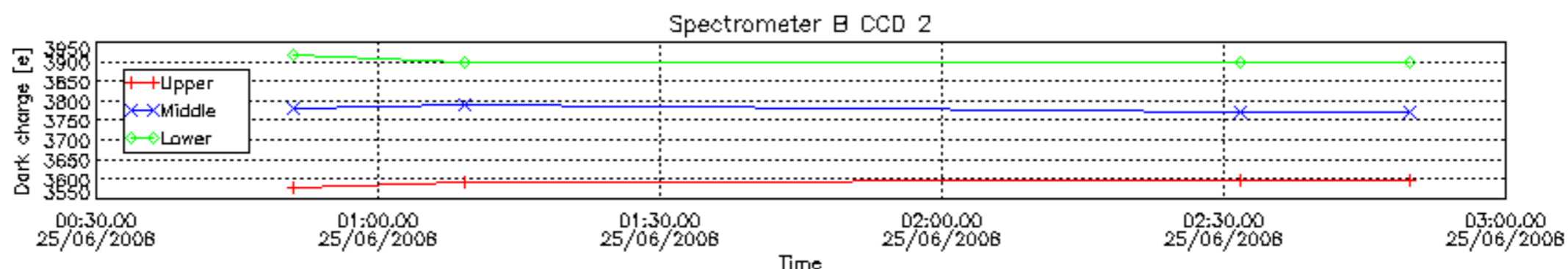
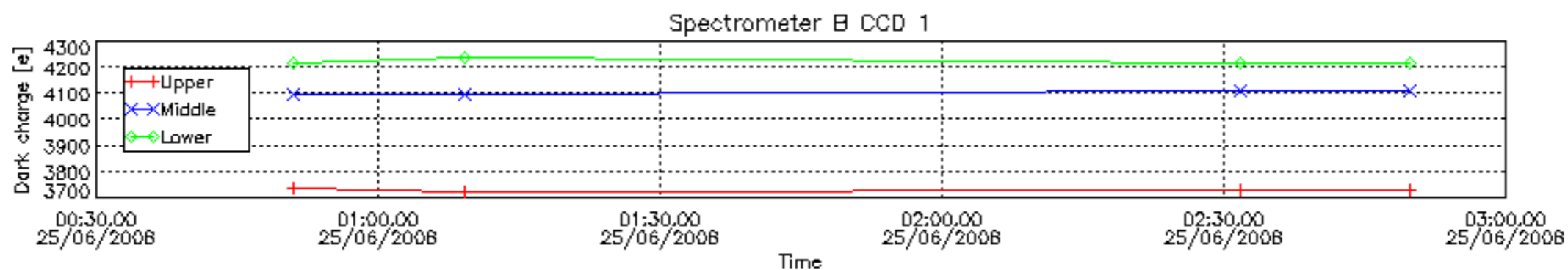
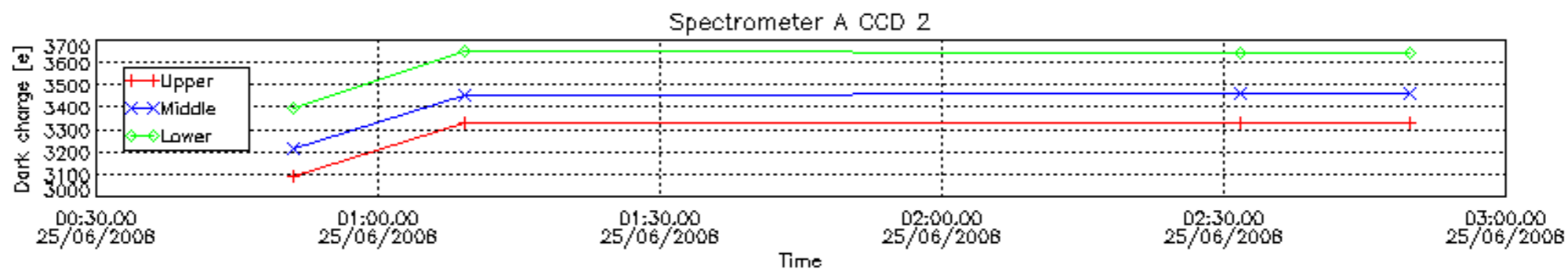
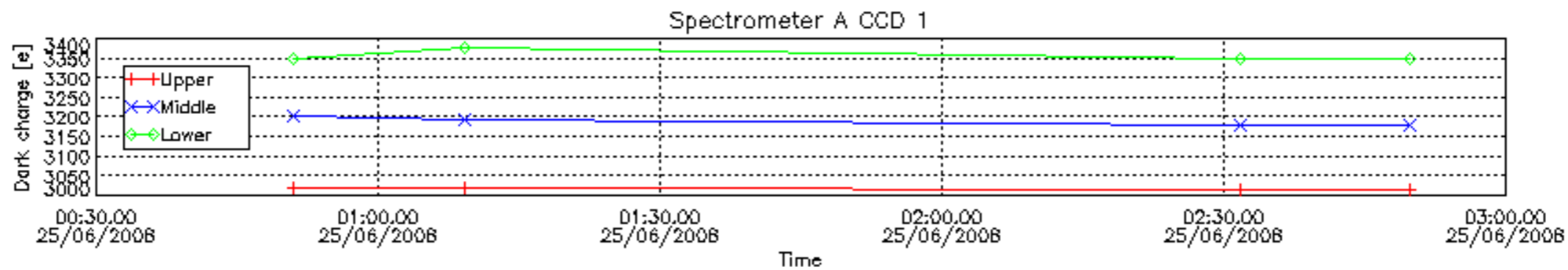
8. Auxiliary Data Files used for the production reported in section 2.4

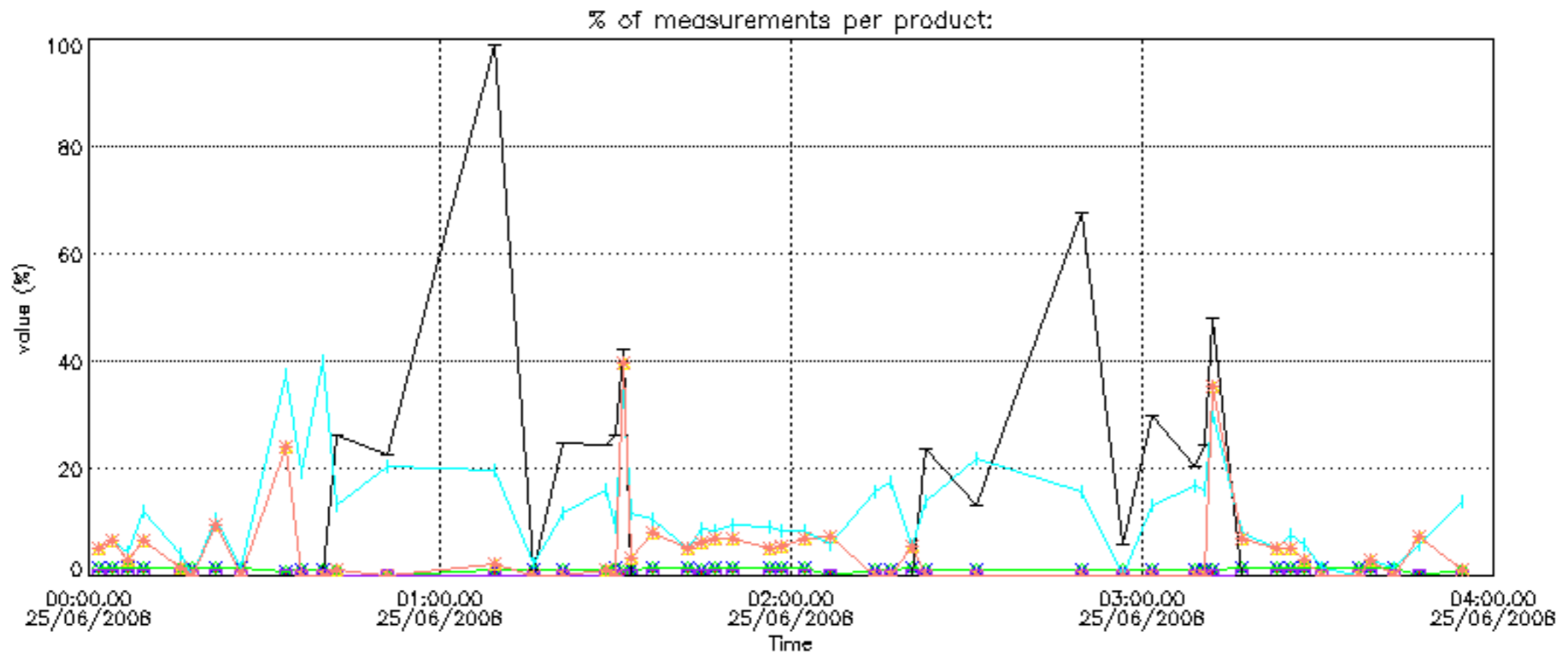
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-JUN-2008 00:01:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080620_084614_20080617_000000_20100101_000000	1	25-JUN-2008 00:01:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-JUN-2008 00:01:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JUN-2008 00:01:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-JUN-2008 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20080624_072113_20080624_210000_20080625_090000	1	25-JUN-2008 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20080624_190114_20080625_030000_20080625_150000	50	25-JUN-2008 03:54:47
OPTIONAL_ECMWF_FILE	MISSING	1	25-JUN-2008 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080624_213318_000057382069_00415_33034_5805.N1	1	25-JUN-2008 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080624_231415_000057382069_00416_33035_5806.N1	14	25-JUN-2008 01:09:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080625_005512_000041442069_00417_33036_5807.N1	30	25-JUN-2008 02:14:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080625_020935_000057382069_00418_33037_5808.N1	50	25-JUN-2008 03:54:47

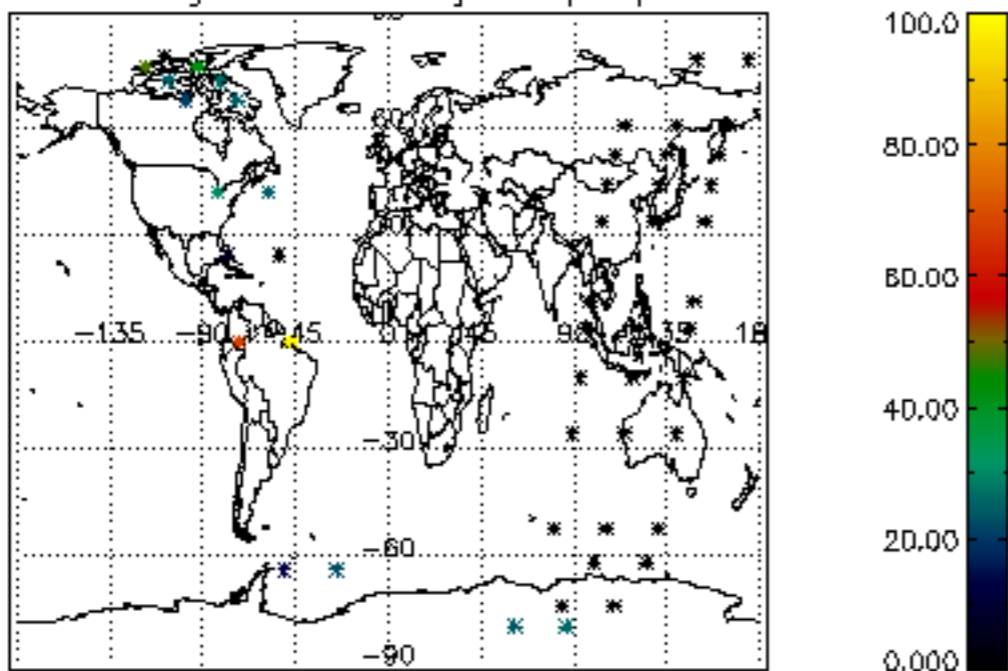




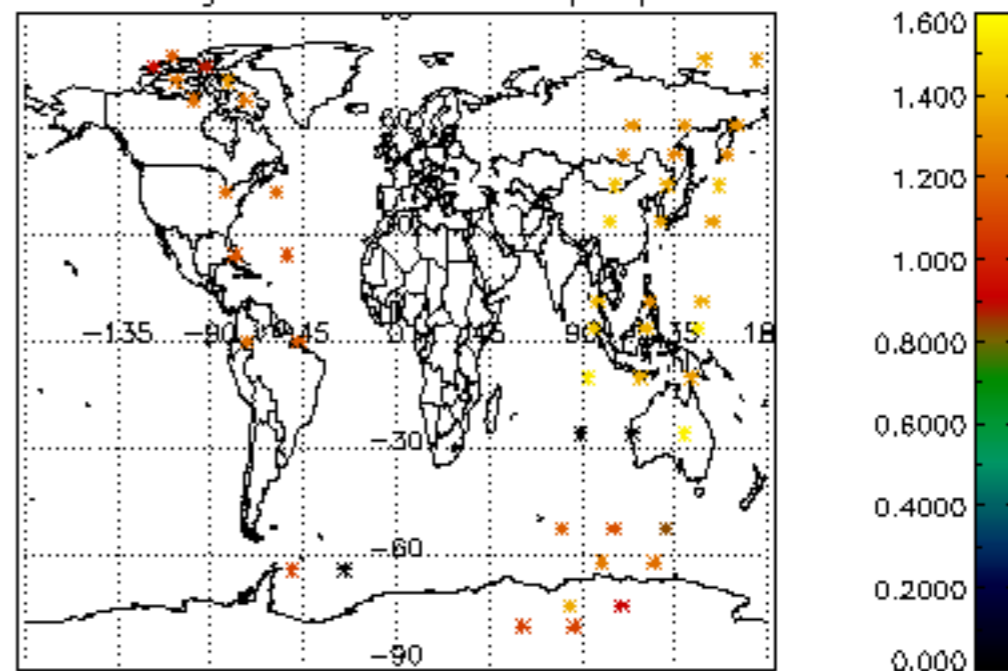




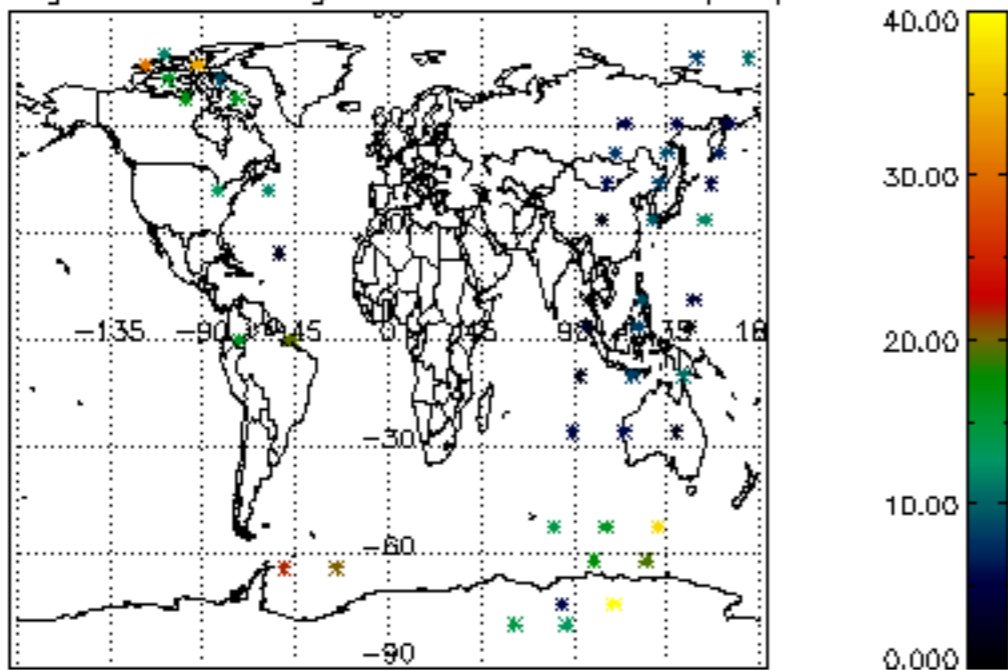
Percentage of cosmic ray hits per profile



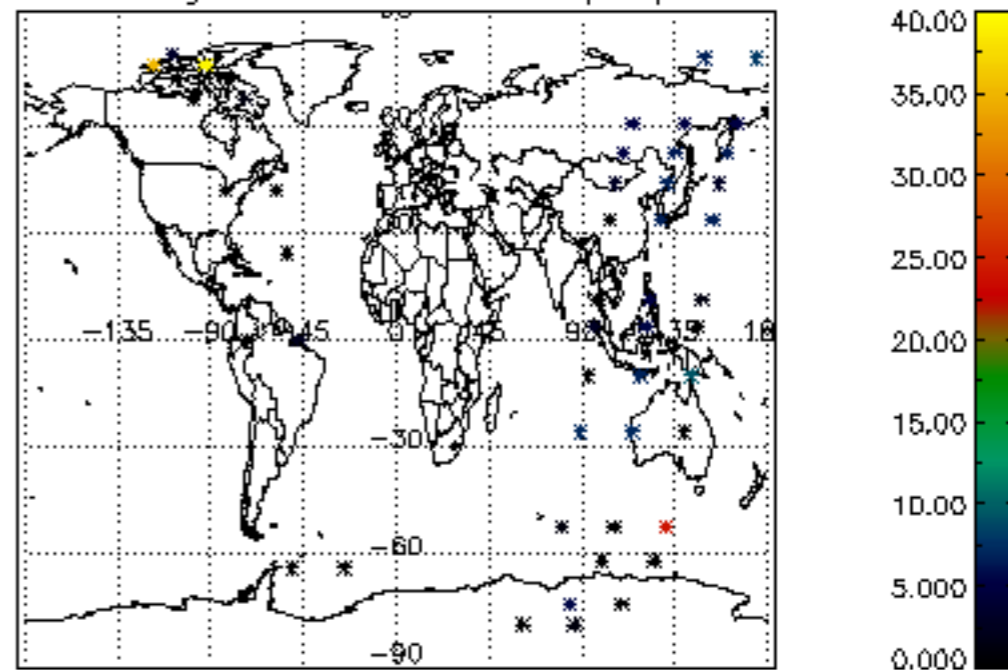
Percentage of datation errors per profile



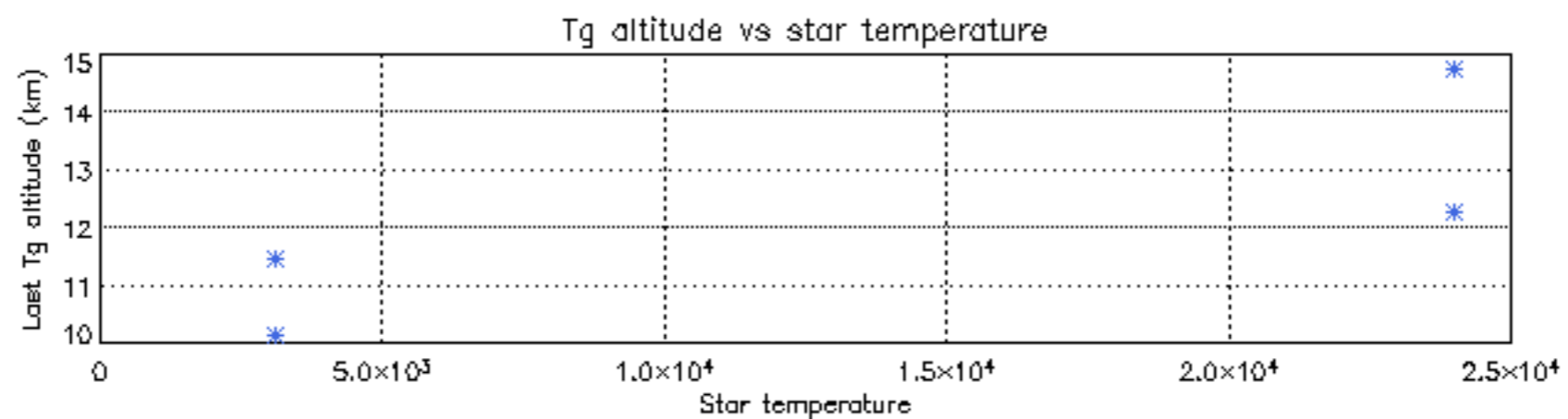
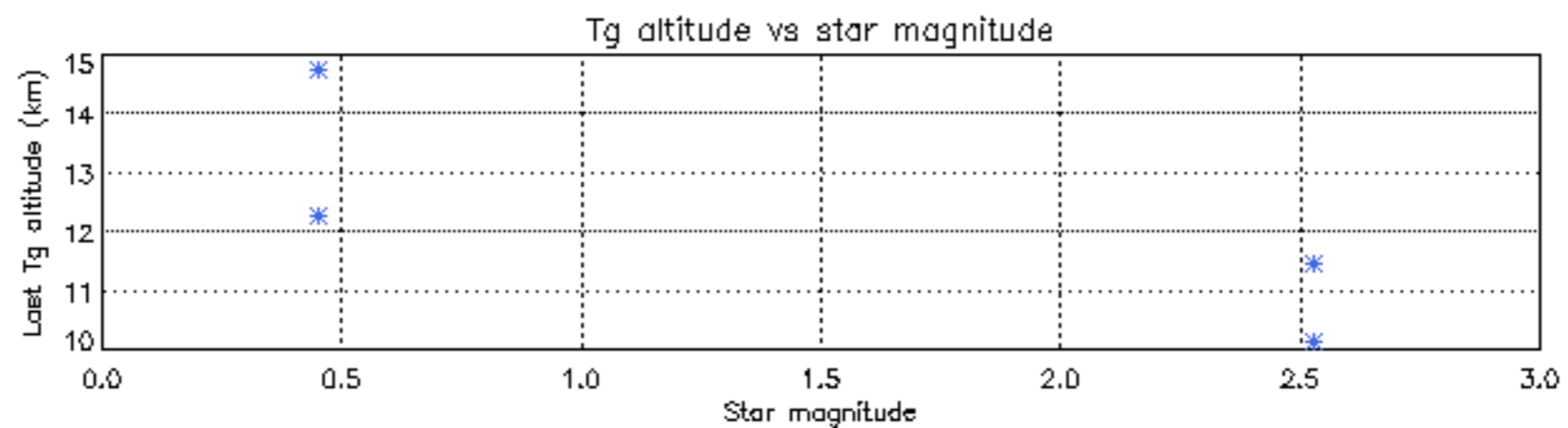
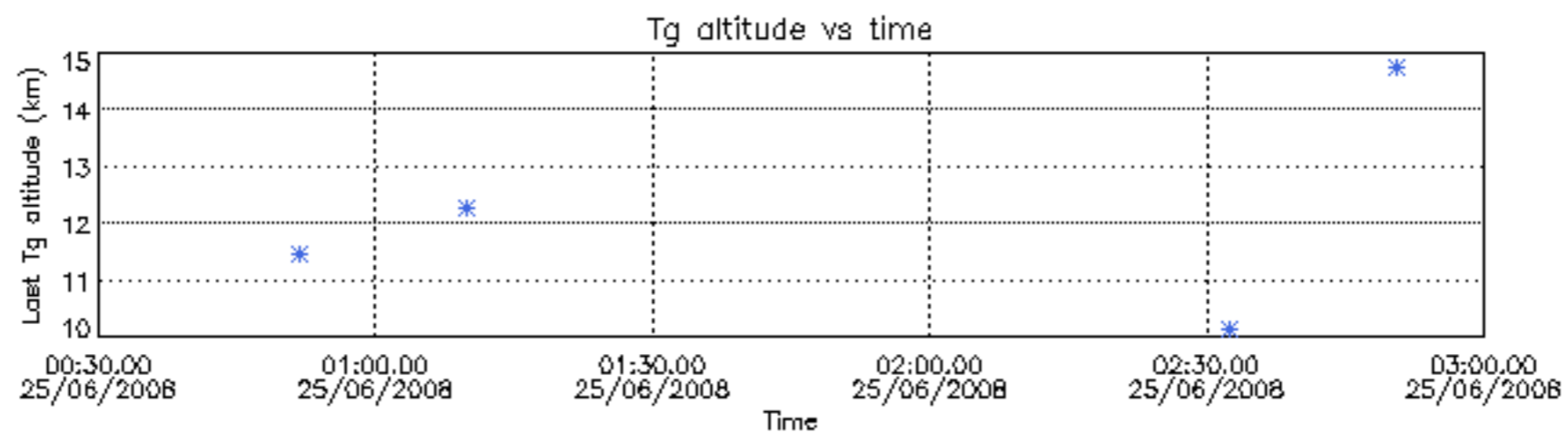
Percentage of star falling outside central band per profile



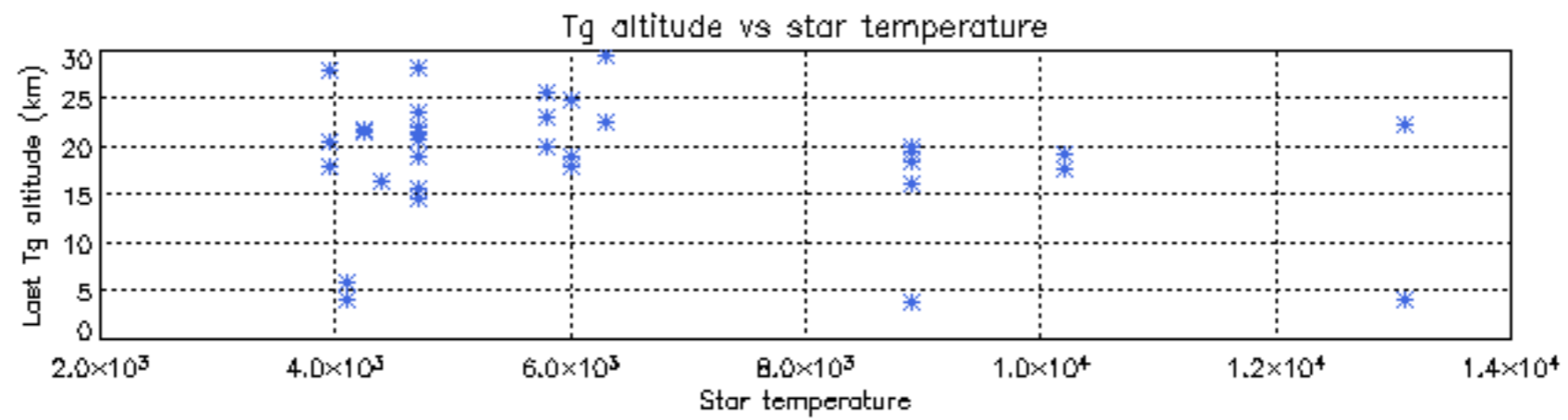
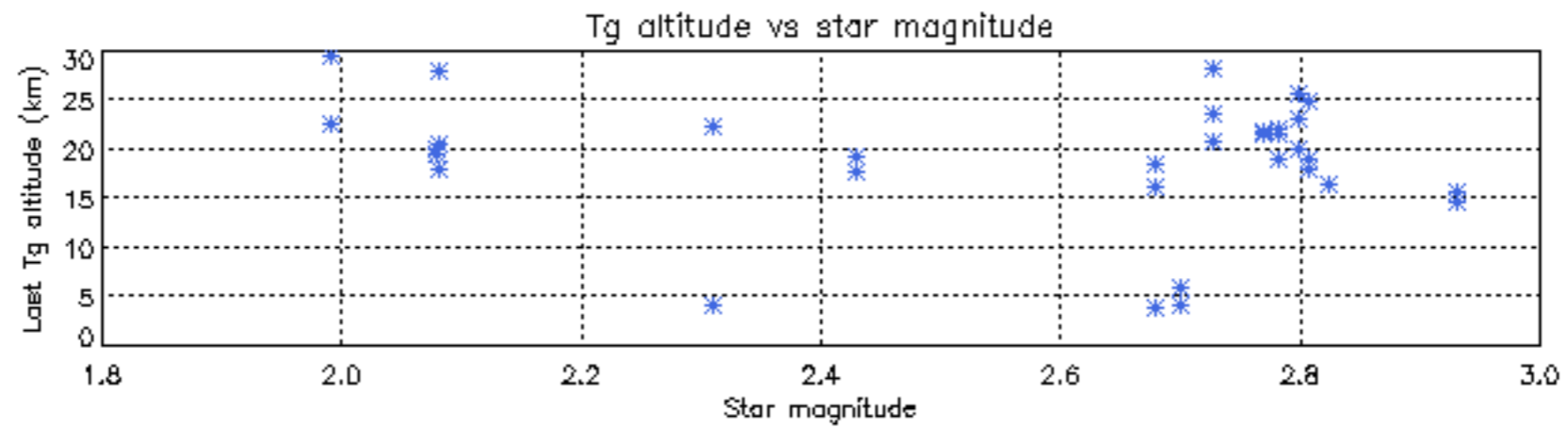
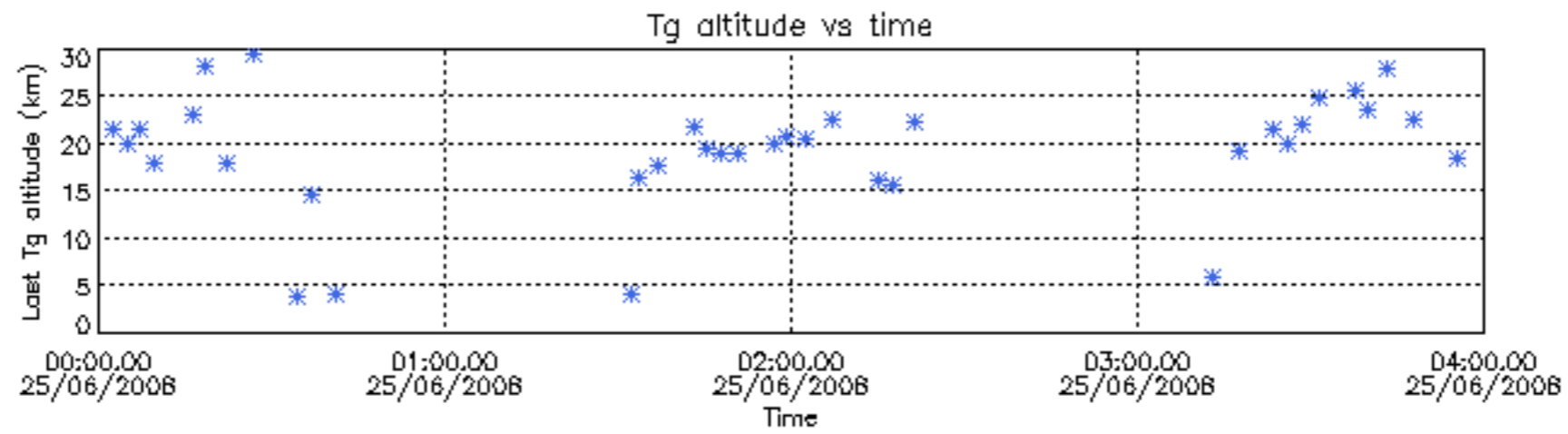
Percentage of saturation errors per profile

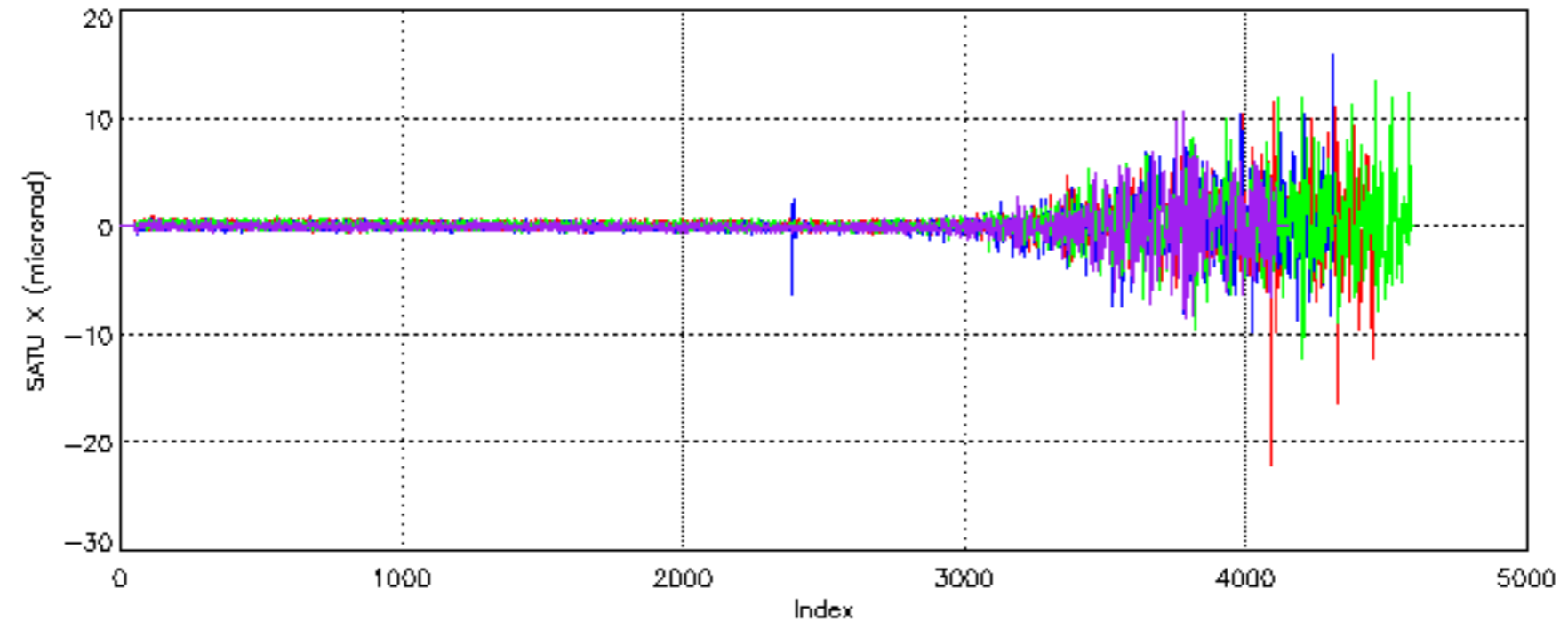


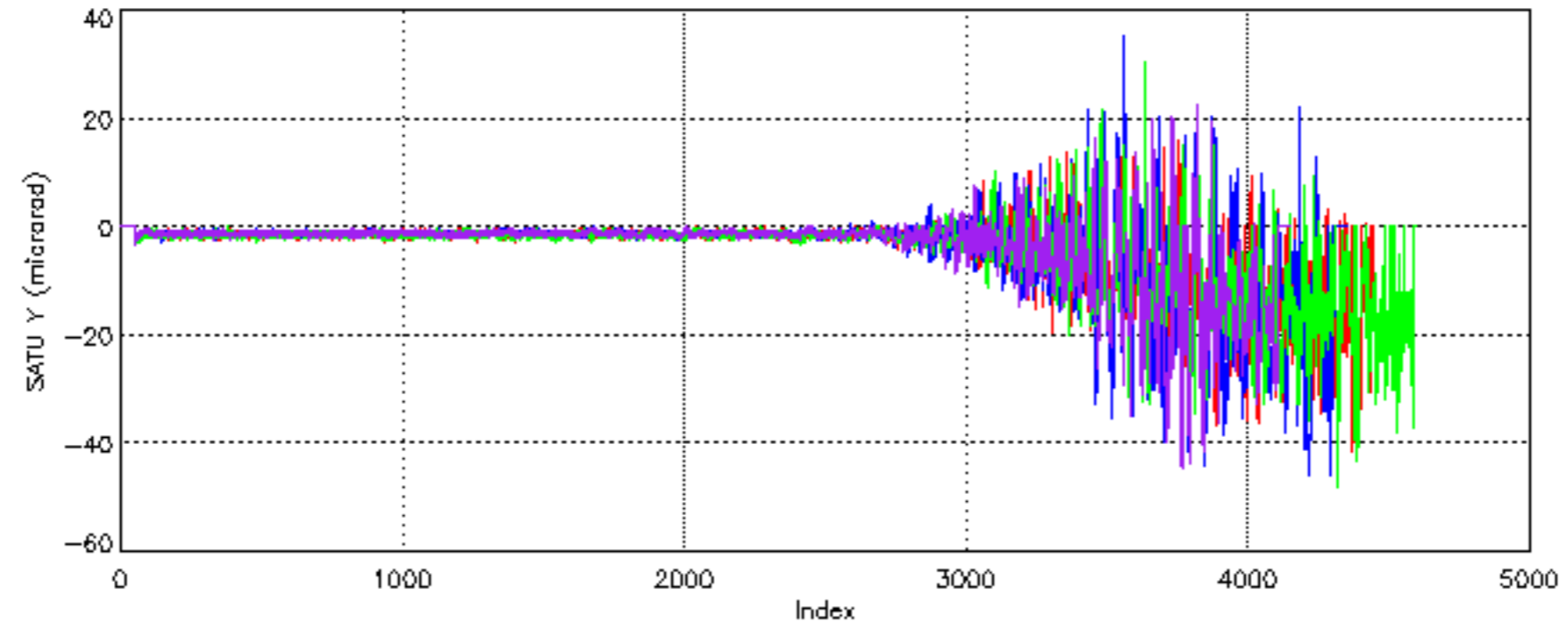
Tangent altitude at which the star is lost

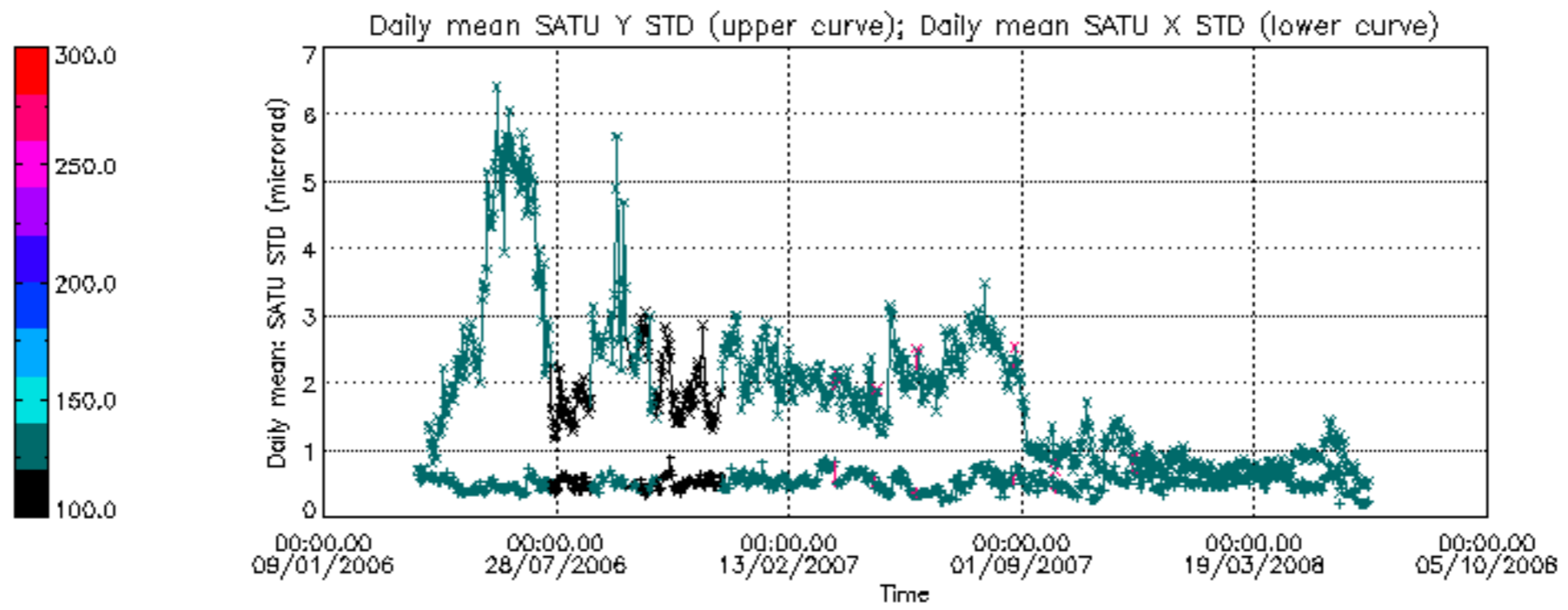


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080601_001042_000056582069_00073_32692_5822.N1

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 2; -641.4; 01-JUN-2008 00:12:31; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;32692
 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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1; -750.3; 01-JUN-2008 01:51:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32693
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 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
 11; 1374.2; 01-JUN-2008 02:26:43; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;32694
 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
 14; 1703.0; 01-JUN-2008 02:32:12; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 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
 20; 3625.8; 01-JUN-2008 03:04:14; Bright; 7.5; 89; 5Alp Cep ; 2.45; 8000;occ; 15; 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
 6; -749.4; 01-JUN-2008 03:31:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32694
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 8; -114.1; 01-JUN-2008 03:42:30; Dark ; 65.5; 18; 24Alp PsA ; 1.17; 9700;occ; 131; 0;32694
 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
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 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
 14; 1147.0; 01-JUN-2008 04:03:32; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32695
 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
 20; 1834.2; 01-JUN-2008 04:14:59; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32695
 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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22; 2368.7; 01-JUN-2008 04:23:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32695
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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 3; -1641.2; 01-JUN-2008 04:57:39; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;32695
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 5; -1179.8; 01-JUN-2008 05:05:21; Dark ; 47.5; 140; 88Gam Peg ; 2.83; 26000;occ; 95; 0;32695
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 8; -113.0; 01-JUN-2008 05:23:08; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;32695
 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
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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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 4; 1255.7; 01-JUN-2008 20:51:20; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;32705
 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
11; 2520.8; 01-JUN-2008 21:12:25; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32705
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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19; 7094.9; 04-JUN-2008 10:50:13; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;32741
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 6; 2944.6; 04-JUN-2008 11:21:38; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;32742
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 23; 7302.5; 04-JUN-2008 12:34:16; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32742
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 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
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 16; 5986.4; 04-JUN-2008 13:52:56; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;32743
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 19; 6561.7; 04-JUN-2008 14:02:31; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32743
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 23; 7302.9; 04-JUN-2008 14:14:52; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32743
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 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
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 9; 3923.3; 04-JUN-2008 14:59:09; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;32744
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 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
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 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
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 9; 2942.9; 04-JUN-2008 16:23:24; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;32745
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 11; 3923.2; 04-JUN-2008 16:39:44; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32745
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 23; 6994.1; 04-JUN-2008 17:30:55; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32745
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 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
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 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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7; 539.7; 06-JUN-2008 01:15:20; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32765
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9; 1174.3; 06-JUN-2008 01:25:54; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32765
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11; 1390.3; 06-JUN-2008 01:29:30; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;32765
12; 1598.8; 06-JUN-2008 01:32:59; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;32765
13; 1706.5; 06-JUN-2008 01:34:46; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;32765
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16; 2495.8; 06-JUN-2008 01:47:56; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32765
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7; -196.2; 06-JUN-2008 02:43:40; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;32765
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11; 541.0; 06-JUN-2008 04:36:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32767
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19; 2298.8; 06-JUN-2008 05:05:51; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;32767
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 16; 1599.0; 06-JUN-2008 06:34:47; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32768
 17; 1706.8; 06-JUN-2008 06:36:35; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32768
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 5; 1708.1; 07-JUN-2008 21:10:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32791
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 9; 2486.6; 07-JUN-2008 21:23:21; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32791
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22; 6611.0; 09-JUN-2008 19:48:16; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32818

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11; 1604.7; 10-JUN-2008 01:07:13; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32822
12; 1710.5; 10-JUN-2008 01:08:59; Bright; 49.5; 98; 13Zet Oph ; 2.57; 30000;occ; 99; 0;32822
13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32822
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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11; 1605.0; 10-JUN-2008 02:47:49; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32823
12; 1710.7; 10-JUN-2008 02:49:35; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;32823
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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17; 2901.8; 10-JUN-2008 03:09:26; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32823
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4;-1630.0; 10-JUN-2008 03:34:30; Dark ; 54.0; 53; 43Bet And ; 2.05; 3300;occ; 108; 0;32823
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6; -659.2; 10-JUN-2008 03:50:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32823
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13; 1090.3; 10-JUN-2008 04:19:50; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32824
14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
15; 1293.2; 10-JUN-2008 04:23:13; Dark ; 62.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 125; 0;32824
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17; 1711.0; 10-JUN-2008 04:30:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32824
18; 2030.0; 10-JUN-2008 04:35:30; Bright; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;32824
19; 2187.8; 10-JUN-2008 04:38:08; Bright; 46.0; 59; 55Alp Oph ; 2.08; 8900;occ; 92; 0;32824
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21; 2476.9; 10-JUN-2008 04:42:57; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32824
22; 2901.4; 10-JUN-2008 04:50:01; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32824
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5; -658.3; 10-JUN-2008 05:31:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32824
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7; -156.8; 10-JUN-2008 05:39:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32824
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12; 1090.6; 10-JUN-2008 06:00:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;32825
13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
14; 1293.5; 10-JUN-2008 06:03:49; Dark ; 58.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 116; 0;32825
15; 1605.3; 10-JUN-2008 06:09:01; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32825
16; 1711.1; 10-JUN-2008 06:10:47; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32825
17; 2029.7; 10-JUN-2008 06:16:06; Bright; 49.5; 126; 60Bet Oph ; 2.77; 4250;occ; 99; 0;32825
18; 2187.3; 10-JUN-2008 06:18:43; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;32825
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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8; 2285.1; 10-JUN-2008 21:25:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32834
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5; 330.7; 10-JUN-2008 22:33:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32835
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21; 4406.8; 10-JUN-2008 23:41:42; Dark ; 62.0; 53; 43Bet And ; 2.05; 3300;occ; 124; 0;32835
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6; 423.1; 11-JUN-2008 00:15:54; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32836
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16; 2473.4; 11-JUN-2008 00:50:05; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;32836
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7; -156.1; 10-JUN-2008 07:20:16; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32825
8; 70.1; 10-JUN-2008 07:24:02; Dark ; 36.0; 18; 24Alp PsA ; 1.17; 9700;occ; 72; 0;32826
9; 200.9; 10-JUN-2008 07:26:13; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;32826
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17; 1611.7; 14-JUN-2008 07:23:52; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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4; 2278.7; 14-JUN-2008 07:34:59; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;32883
5; 2367.0; 14-JUN-2008 07:36:27; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32883
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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
9; 3168.7; 14-JUN-2008 07:49:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32883
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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12; 4061.3; 14-JUN-2008 08:04:41; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32883
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
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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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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
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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
10; 3900.4; 14-JUN-2008 09:42:36; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;32884
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
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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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26; 7647.8; 14-JUN-2008 10:45:04; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 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
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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
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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
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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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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
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5; 2278.4; 14-JUN-2008 12:36:46; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32886
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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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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
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 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
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 19; 5925.6; 14-JUN-2008 15:18:09; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;32887
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 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
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9; 267.1; 15-JUN-2008 03:08:38; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32895
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24; 2870.5; 15-JUN-2008 03:52:02; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32895
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26; 3169.4; 15-JUN-2008 03:57:01; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;32895
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9; 268.0; 15-JUN-2008 04:49:15; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32896
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 23; 2460.3; 15-JUN-2008 05:25:47; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32896
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 22; 2368.3; 15-JUN-2008 07:04:51; Bright; 52.0; 67; 5Alp CrB ; 2.22; 11000;occ; 104; 0;32897
 23; 2460.1; 15-JUN-2008 07:06:23; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32897
 24; 2869.6; 15-JUN-2008 07:13:13; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32897
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 27; 3446.7; 15-JUN-2008 07:22:50; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;32897

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 8; 1718.7; 15-JUN-2008 20:18:49; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32905
 9; 1844.5; 15-JUN-2008 20:20:55; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32905
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 22; 4062.4; 15-JUN-2008 22:38:29; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32906
 23; 4270.0; 15-JUN-2008 22:41:56; Bright; 57.0; 73; 57Gam1And ; 2.26; 13100;occ; 114; 0;32906
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9;	2458.9;	15-JUN-2008	17:09:58;	Bright;	;	36.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	72;	0;	32903
10;	2867.3;	15-JUN-2008	17:16:46;	Bright;	;	39.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	78;	0;	32903
11;	2961.4;	15-JUN-2008	17:18:20;	Bright;	;	36.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	72;	0;	32903
12;	3169.9;	15-JUN-2008	17:21:48;	Bright;	;	37.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	74;	0;	32903
13;	3446.8;	15-JUN-2008	17:26:25;	Bright;	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	70;	0;	32903
14;	3896.5;	15-JUN-2008	17:33:55;	Bright;	;	38.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	77;	0;	32903
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16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	;	40.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	81;	0;	32903
17;	4405.9;	15-JUN-2008	17:42:25;	Bright;	;	39.5;	173;	4Bet	Tri	;	3.00;	8900;	occ;	79;	0;	32903
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19;	4907.2;	15-JUN-2008	17:50:46;	Dark	;	49.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	99;	0;	32903
20;	5616.2;	15-JUN-2008	18:02:35;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32903
21;	5938.2;	15-JUN-2008	18:07:57;	Dark	;	48.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	96;	0;	32903
22;	6311.9;	15-JUN-2008	18:14:10;	Dark	;	51.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	103;	0;	32903
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
25;	7047.3;	15-JUN-2008	18:26:26;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	32903
26;	7152.7;	15-JUN-2008	18:28:11;	Dark	;	7.0;	40;	The	Sco	;	1.86;	7100;	occ;	14;	0;	32903
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2;	1116.7;	15-JUN-2008	18:28:11;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	32904
3;	1219.4;	15-JUN-2008	18:29:54;	Dark	;	44.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	88;	0;	32904
4;	1306.1;	15-JUN-2008	18:31:21;	Dark	;	42.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	85;	0;	32904
5;	1472.1;	15-JUN-2008	18:34:07;	Bright;	;	36.5;	156;	20Sig	Sco	;	2.90;	28000;	occ;	73;	0;	32904
6;	1614.3;	15-JUN-2008	18:36:29;	Bright;	;	39.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	78;	0;	32904
7;	1718.5;	15-JUN-2008	18:38:13;	Bright;	;	36.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	73;	0;	32904
8;	1844.4;	15-JUN-2008	18:40:19;	Bright;	;	36.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	72;	0;	32904
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11;	2458.7;	15-JUN-2008	18:50:33;	Bright;	;	36.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	73;	0;	32904
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13;	2961.2;	15-JUN-2008	18:58:56;	Bright;	;	34.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	69;	0;	32904
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17;	4062.5;	15-JUN-2008	19:17:17;	Bright;	;	53.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	106;	0;	32904
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22;	5616.5;	15-JUN-2008	19:43:11;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32904
23;	5939.0;	15-JUN-2008	19:48:34;	Dark	;	49.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	98;	0;	32904
24;	6312.8;	15-JUN-2008	19:54:47;	Dark	;	52.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	104;	0;	32904
25;	6664.6;	15-JUN-2008	20:00:39;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	32904
26;	6965.5;	15-JUN-2008	20:05:40;	Dark	;	44.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	89;	0;	32904
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5;	930.3;	16-JUN-2008	01:07:28;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	32908
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7;	1117.8;	16-JUN-2008	01:10:36;	Dark	;	41.5;	40;	The	Sco	;	1.86;	7100;	occ;	83;	0;	32908
8;	1220.5;	16-JUN-2008	01:12:19;	Dark	;	43.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	86;	0;	32908
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13;	1844.9;	16-JUN-2008	01:22:43;	Bright;	;	35.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	71;	0;	32908
14;	2276.6;	16-JUN-2008	01:29:55;	Bright;	;	37.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	74;	0;	32908

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 4; 631.0; 16-JUN-2008 02:43:05; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32909
 5; 930.6; 16-JUN-2008 02:48:05; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;32909
 6; 1012.7; 16-JUN-2008 02:49:27; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32909
 7; 1118.0; 16-JUN-2008 02:51:12; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32909
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 9; 1307.1; 16-JUN-2008 02:54:21; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32909
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 12; 1719.1; 16-JUN-2008 03:01:13; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32909
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 14; 2276.6; 16-JUN-2008 03:10:31; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32909
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 19; 1845.2; 16-JUN-2008 04:43:55; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32910
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 22; 2457.7; 16-JUN-2008 04:54:08; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32910
 23; 2864.6; 16-JUN-2008 05:00:55; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32910
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17; 1615.1; 16-JUN-2008 06:20:41; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32911
18; 1719.2; 16-JUN-2008 06:22:25; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32911
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11; 4065.0; 21-JUN-2008 11:05:50; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;32985
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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
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 21; 7069.9; 21-JUN-2008 13:36:31; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32986
 22; 7176.3; 21-JUN-2008 13:38:17; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;32986
 23; 7277.5; 21-JUN-2008 13:39:58; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32986
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 7; 2838.7; 21-JUN-2008 14:06:35; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32987
 8; 2953.9; 21-JUN-2008 14:08:30; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32987
 9; 3176.3; 21-JUN-2008 14:12:13; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 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
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21; 4650.6; 23-JUN-2008 23:37:09; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;33021
22; 4941.2; 23-JUN-2008 23:41:59; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;33021
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2;-1970.6; 23-JUN-2008 06:41:24; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;33011
3;-1765.1; 23-JUN-2008 06:44:50; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;33011
4;-1619.8; 23-JUN-2008 06:47:15; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;33011
5;-1388.1; 23-JUN-2008 06:51:07; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33011

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7; -616.0; 23-JUN-2008 07:03:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33011
8; -12.4; 23-JUN-2008 07:14:03; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33011
9; 382.4; 23-JUN-2008 07:20:37; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;33012
10; 690.6; 23-JUN-2008 07:25:46; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33012
11; 1146.9; 23-JUN-2008 07:33:22; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33012
12; 1247.9; 23-JUN-2008 07:35:03; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33012
13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012
14; 1628.1; 23-JUN-2008 07:41:23; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33012
15; 1731.8; 23-JUN-2008 07:43:07; Bright; 4.0; 98; 13Zet Oph ; 2.57; 30000;occ; 8; 0;33012

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3; 2132.9; 23-JUN-2008 07:49:48; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33012
4; 2274.7; 23-JUN-2008 07:52:10; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33012
5; 2447.1; 23-JUN-2008 07:55:02; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33012
6; 2831.7; 23-JUN-2008 08:01:27; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33012
7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
8; 3178.6; 23-JUN-2008 08:07:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33012
9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012
10; 3868.8; 23-JUN-2008 08:18:44; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;33012
11; 4065.5; 23-JUN-2008 08:22:00; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33012
12; 4270.8; 23-JUN-2008 08:25:26; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33012
13; 4416.4; 23-JUN-2008 08:27:51; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;33012
14; 4648.2; 23-JUN-2008 08:31:43; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33012
15; 4938.3; 23-JUN-2008 08:36:33; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;33012
16; 5420.6; 23-JUN-2008 08:44:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33012
17; 6024.0; 23-JUN-2008 08:54:39; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33012
18; 6419.3; 23-JUN-2008 09:01:14; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;33012
19; 6727.0; 23-JUN-2008 09:06:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33012
20; 7183.0; 23-JUN-2008 09:13:58; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33012
21; 7283.9; 23-JUN-2008 09:15:39; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33012
22; 7365.2; 23-JUN-2008 09:17:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;33012
23; 7664.1; 23-JUN-2008 09:21:59; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33012
24; 7767.7; 23-JUN-2008 09:23:43; Bright; 8.0; 98; 13Zet Oph ; 2.57; 30000;occ; 16; 0;33012

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2; 1988.7; 23-JUN-2008 09:28:00; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33013
3; 2132.7; 23-JUN-2008 09:30:24; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33013
4; 2274.8; 23-JUN-2008 09:32:46; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33013
5; 2447.0; 23-JUN-2008 09:35:38; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33013
6; 2831.5; 23-JUN-2008 09:42:02; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33013
7; 2952.6; 23-JUN-2008 09:44:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33013
8; 3178.8; 23-JUN-2008 09:47:50; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33013
9; 3446.2; 23-JUN-2008 09:52:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33013
10; 3868.6; 23-JUN-2008 09:59:19; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33013
11; 4065.5; 23-JUN-2008 10:02:36; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33013
12; 4270.8; 23-JUN-2008 10:06:02; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;33013
13; 4416.4; 23-JUN-2008 10:08:27; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;33013
14; 4648.4; 23-JUN-2008 10:12:19; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33013
15; 4938.5; 23-JUN-2008 10:17:09; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33013
16; 5421.2; 23-JUN-2008 10:25:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33013
17; 6024.4; 23-JUN-2008 10:35:15; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33013
18; 6420.2; 23-JUN-2008 10:41:51; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33013
19; 6727.5; 23-JUN-2008 10:46:58; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33013
20; 7183.3; 23-JUN-2008 10:54:34; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;33013
21; 7284.1; 23-JUN-2008 10:56:15; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33013
22; 7365.5; 23-JUN-2008 10:57:36; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33013
23; 7664.1; 23-JUN-2008 11:02:35; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;33013

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2; -8.2; 24-JUN-2008 00:00:06; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33021
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
5; 1149.2; 24-JUN-2008 00:19:23; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33022
6; 1250.1; 24-JUN-2008 00:21:04; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33022
7; 1331.6; 24-JUN-2008 00:22:26; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33022
8; 1629.2; 24-JUN-2008 00:27:23; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33022

9; 1733.1; 24-JUN-2008 00:29:07; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33022
 10; 1987.6; 24-JUN-2008 00:33:22; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33022
 11; 2131.3; 24-JUN-2008 00:35:45; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33022
 12; 2274.9; 24-JUN-2008 00:38:09; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33022
 13; 2446.7; 24-JUN-2008 00:41:01; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33022
 14; 2829.1; 24-JUN-2008 00:47:23; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33022
 15; 2952.2; 24-JUN-2008 00:49:26; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33022
 16; 3179.6; 24-JUN-2008 00:53:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33022
 17; 3446.1; 24-JUN-2008 00:57:40; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33022
 18; 3865.8; 24-JUN-2008 01:04:40; Bright; 28.0; 76; 27Gam Cas ; 2.30; 30000;occ; 56; 0;33022
 19; 4065.2; 24-JUN-2008 01:07:59; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;33022
 20; 4288.9; 24-JUN-2008 01:11:43; Bright; 35.0; 79; 26Bet Per ; 2.31; 13100;occ; 70; 0;33022
 21; 4650.9; 24-JUN-2008 01:17:45; Dark ; 53.5; 50; 13Alp Ari ; 2.01; 4250;occ; 107; 0;33022
 22; 4941.6; 24-JUN-2008 01:22:36; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;33022

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 2; 1732.1; 23-JUN-2008 11:04:19; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33014
 3; 1988.6; 23-JUN-2008 11:08:35; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33014
 4; 2132.5; 23-JUN-2008 11:10:59; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33014
 5; 2274.8; 23-JUN-2008 11:13:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33014
 6; 2447.0; 23-JUN-2008 11:16:14; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33014
 7; 2831.1; 23-JUN-2008 11:22:38; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33014
 8; 2952.5; 23-JUN-2008 11:24:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33014
 9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
 10; 3446.2; 23-JUN-2008 11:32:53; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33014
 11; 3868.2; 23-JUN-2008 11:39:55; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;33014
 12; 4065.4; 23-JUN-2008 11:43:12; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;33014
 13; 4270.8; 23-JUN-2008 11:46:37; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;33014
 14; 4416.5; 23-JUN-2008 11:49:03; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;33014
 15; 4648.7; 23-JUN-2008 11:52:55; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;33014
 16; 4938.9; 23-JUN-2008 11:57:46; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33014
 17; 5421.9; 23-JUN-2008 12:05:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33014
 18; 6024.8; 23-JUN-2008 12:15:52; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33014
 19; 6421.2; 23-JUN-2008 12:22:28; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33014
 20; 6728.0; 23-JUN-2008 12:27:35; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33014
 21; 7183.5; 23-JUN-2008 12:35:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33014
 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
 24; 7664.3; 23-JUN-2008 12:43:11; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33014

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 2; 1732.2; 23-JUN-2008 12:44:55; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33015
 3; 1988.5; 23-JUN-2008 12:49:11; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33015
 4; 2132.5; 23-JUN-2008 12:51:35; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33015
 5; 2274.8; 23-JUN-2008 12:53:57; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33015
 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
 12; 4065.4; 23-JUN-2008 13:23:48; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;33015
 13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
 14; 4416.6; 23-JUN-2008 13:29:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33015
 15; 4649.1; 23-JUN-2008 13:33:32; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;33015
 16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
 17; 5422.6; 23-JUN-2008 13:46:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33015
 18; 6025.2; 23-JUN-2008 13:56:28; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;33015
 19; 6422.3; 23-JUN-2008 14:03:05; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;33015
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 21; 7183.9; 23-JUN-2008 14:15:47; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33015
 22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
 23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015

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 3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
 4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

5; 2275.0; 23-JUN-2008 14:34:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33016
6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016
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
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016
11; 3867.8; 23-JUN-2008 15:01:06; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;33016
12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016
14; 4649.4; 23-JUN-2008 15:14:08; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;33016
15; 4939.8; 23-JUN-2008 15:18:58; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33016
16; 5423.3; 23-JUN-2008 15:27:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33016
17; 6025.7; 23-JUN-2008 15:37:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33016
18; 6423.3; 23-JUN-2008 15:43:42; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33016
19; 6729.2; 23-JUN-2008 15:48:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33016
20; 7184.2; 23-JUN-2008 15:56:23; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33016
21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016
22; 7366.4; 23-JUN-2008 15:59:25; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;33016

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13; 1639.0; 28-JUN-2008 21:49:28; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;33092
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24; 4164.4; 28-JUN-2008 22:31:34; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;33092
25; 4293.3; 28-JUN-2008 22:33:42; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;33092
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5; 1264.4; 28-JUN-2008 09:59:02; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;33085
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7;	2814.7;	28-JUN-2008	12:05:28;	Bright;	37.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	75;	0;	33086	
8;	2951.7;	28-JUN-2008	12:07:45;	Bright;	37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	33086	
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13;	4293.1;	28-JUN-2008	12:30:06;	Bright;	37.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	74;	0;	33086	
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15;	5193.1;	28-JUN-2008	12:45:07;	Dark	;	40.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	80;	0;	33086
16;	5698.2;	28-JUN-2008	12:53:32;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33086
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19;	6500.9;	28-JUN-2008	13:06:54;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	33086
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23;	7200.6;	28-JUN-2008	13:18:34;	Dark	;	41.0;	40;	The	Sco	;	1.86;	7100;	occ;	82;	0;	33086
24;	7300.6;	28-JUN-2008	13:20:14;	Dark	;	41.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	82;	0;	33086
25;	7384.4;	28-JUN-2008	13:21:38;	Dark	;	44.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	89;	0;	33086

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12;	4164.3;	28-JUN-2008	14:08:34;	Bright;	33.5;	175;	39Del	Per	;	3.01;	19400;	occ;	67;	0;	33087	
13;	4293.3;	28-JUN-2008	14:10:43;	Bright;	38.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	76;	0;	33087	
14;	4965.2;	28-JUN-2008	14:21:54;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33087
15;	5193.4;	28-JUN-2008	14:25:43;	Dark	;	41.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	83;	0;	33087
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