

GOMOS Daily Report 20-JUN-2007

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	22JUN2007 08:15:35
Data source version	GOMOS/5.00
Start time of products	20-06-2007 (20JUN2007 00:00:00)
Stop time of products	21-06-2007 (21JUN2007 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)

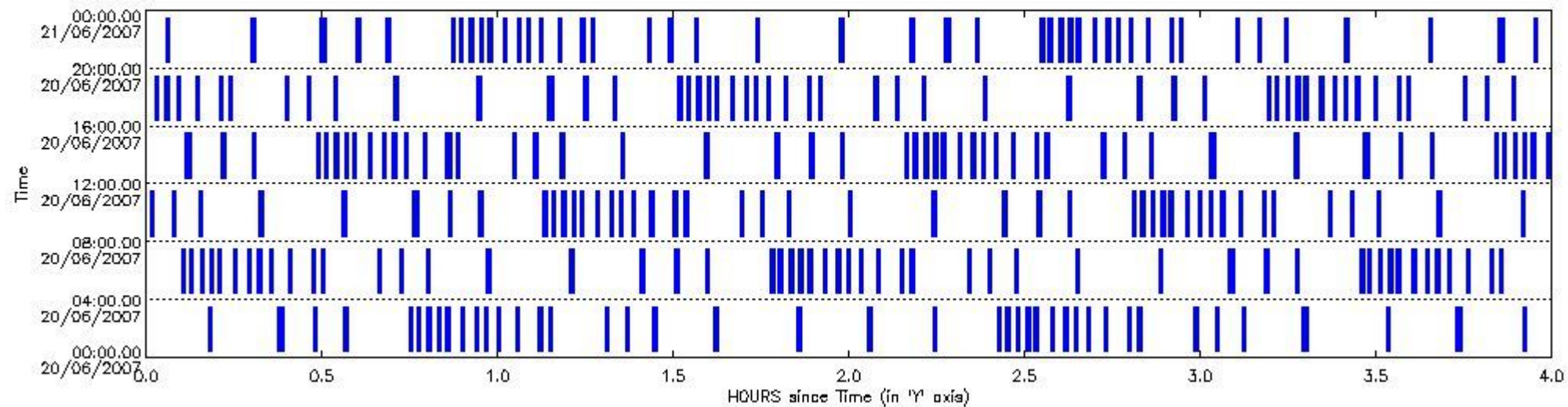
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

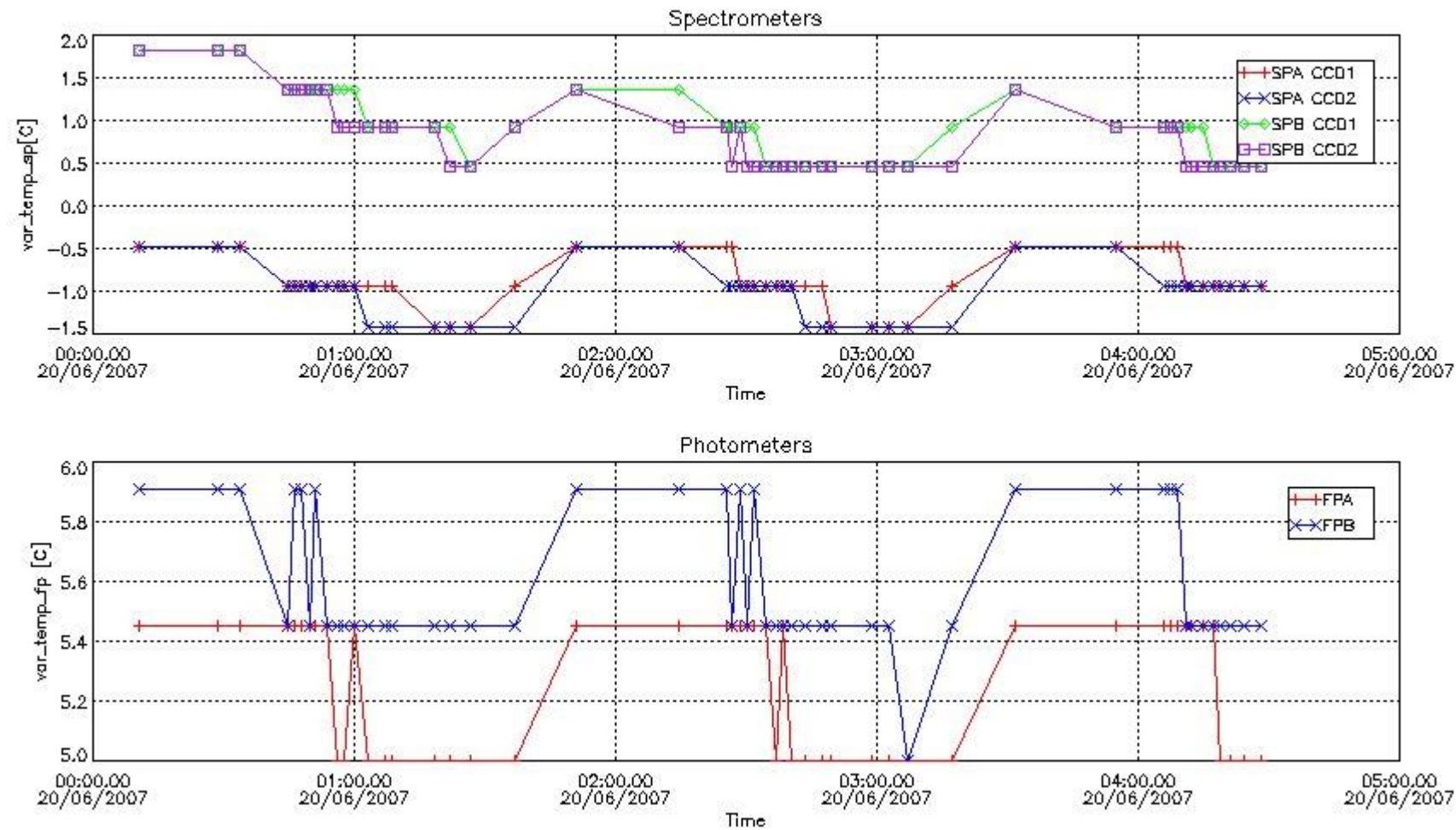
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070620_001029_000000412059_00116_27725_5381.N1	20-JUN-2007 00:10:29	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	27725	No
2	GOM_TRA_1PNPDE20070620_002828_000000402059_00116_27725_5510.N1	20-JUN-2007 00:28:28	Dark	40.000	9	Alp Eri	0.45300	24000.	80	27725	No
3	GOM_TRA_1PNPDE20070620_003345_000000362059_00117_27726_5511.N1	20-JUN-2007 00:33:45	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	27726	No
4	GOM_TRA_1PNPDE20070620_004446_000000402059_00117_27726_5512.N1	20-JUN-2007 00:44:46	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27726	No
5	GOM_TRA_1PNPDE20070620_004609_000000392059_00117_27726_5513.N1	20-JUN-2007 00:46:09	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	27726	No
6	GOM_TRA_1PNPDE20070620_004755_000000412059_00117_27726_5514.N1	20-JUN-2007 00:47:55	Twilight_stray	41.000	40	The Sco	1.8590	7100.0	82	27726	No
7	GOM_TRA_1PNPDE20070620_004937_000000402059_00117_27726_5515.N1	20-JUN-2007 00:49:37	Twilight_stray	39.500	25	35Lam Sco	1.6200	28000.	79	27726	No
8	GOM_TRA_1PNPDE20070620_005101_000000522059_00117_27726_5516.N1	20-JUN-2007 00:51:01	Bright	51.500	75	26Eps Sco	2.2910	4250.0	103	27726	No
9	GOM_TRA_1PNPDE20070620_005345_000000362059_00117_27726_5517.N1	20-JUN-2007 00:53:45	Bright	35.500	156	20Sig Sco	2.9030	28000.	71	27726	No
10	GOM_TRA_1PNPDE20070620_005604_000000382059_00117_27726_5518.N1	20-JUN-2007 00:56:04	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27726	No
11	GOM_TRA_1PNPDE20070620_005748_000000372059_00117_27726_5519.N1	20-JUN-2007 00:57:48	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27726	No
12	GOM_TRA_1PNPDE20070620_005954_000000362059_00117_27726_5520.N1	20-JUN-2007 00:59:54	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27726	No

13	GOM_TRA_1PNPDE20070620_010259_000000352059_00117_27726_5521.N1	20-JUN-2007 01:02:59	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	27726	No
14	GOM_TRA_1PNPDE20070620_010658_000000372059_00117_27726_5522.N1	20-JUN-2007 01:06:58	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27726	No
15	GOM_TRA_1PNPDE20070620_010840_000000362059_00117_27726_5523.N1	20-JUN-2007 01:08:40	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	27726	No
16	GOM_TRA_1PNPDE20070620_011820_000000372059_00117_27726_5524.N1	20-JUN-2007 01:18:20	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27726	No
17	GOM_TRA_1PNPDE20070620_012157_000000332059_00117_27726_5525.N1	20-JUN-2007 01:21:57	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27726	No
18	GOM_TRA_1PNPDE20070620_012630_000000362059_00117_27726_5526.N1	20-JUN-2007 01:26:30	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27726	No
19	GOM_TRA_1PNPDE20070620_013649_000000532059_00117_27726_5527.N1	20-JUN-2007 01:36:49	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27726	No
20	GOM_TRA_1PNPDE20070620_015105_000000432059_00117_27726_5528.N1	20-JUN-2007 01:51:05	Dark	42.500	94	92Alp Cet	2.5260	3100.0	85	27726	No
21	GOM_TRA_1PNPDE20070620_021421_000000362059_00118_27727_5635.N1	20-JUN-2007 02:14:21	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	27727	No
22	GOM_TRA_1PNPDE20070620_022522_000000392059_00118_27727_5636.N1	20-JUN-2007 02:25:22	Straylight	38.500	141	Bet Ara	2.8400	4600.0	77	27727	No
23	GOM_TRA_1PNPDE20070620_022646_000000382059_00118_27727_5637.N1	20-JUN-2007 02:26:46	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	27727	No
24	GOM_TRA_1PNPDE20070620_022831_000000422059_00118_27727_5638.N1	20-JUN-2007 02:28:31	Tw_i_and_stray	41.500	40	The Sco	1.8590	7100.0	83	27727	No
25	GOM_TRA_1PNPDE20070620_023013_000000412059_00118_27727_5639.N1	20-JUN-2007 02:30:13	Tw_i_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27727	No
26	GOM_TRA_1PNPDE20070620_023137_000000402059_00118_27727_5640.N1	20-JUN-2007 02:31:37	Bright	40.000	75	26Eps Sco	2.2910	4250.0	80	27727	No
27	GOM_TRA_1PNPDE20070620_023421_000000372059_00118_27727_5641.N1	20-JUN-2007 02:34:21	Bright	37.000	156	20Sig Sco	2.9030	28000.	74	27727	No
28	GOM_TRA_1PNPDE20070620_023641_000000382059_00118_27727_5642.N1	20-JUN-2007 02:36:41	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27727	No
29	GOM_TRA_1PNPDE20070620_023824_000000362059_00118_27727_5643.N1	20-JUN-2007 02:38:24	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27727	No
30	GOM_TRA_1PNPDE20070620_024030_000000372059_00118_27727_5644.N1	20-JUN-2007 02:40:30	Bright	36.500	120	1Del Oph	2.7340	3200.0	73	27727	No
31	GOM_TRA_1PNPDE20070620_024335_000000362059_00118_27727_5645.N1	20-JUN-2007 02:43:35	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	27727	No
32	GOM_TRA_1PNPDE20070620_024734_000000352059_00118_27727_5646.N1	20-JUN-2007 02:47:34	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	27727	No
33	GOM_TRA_1PNPDE20070620_024916_000000382059_00118_27727_5647.N1	20-JUN-2007 02:49:16	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	27727	No
34	GOM_TRA_1PNPDE20070620_025856_000000352059_00118_27727_5648.N1	20-JUN-2007 02:58:56	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27727	No
35	GOM_TRA_1PNPDE20070620_030233_000000332059_00118_27727_5649.N1	20-JUN-2007 03:02:33	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27727	No
36	GOM_TRA_1PNPDE20070620_030706_000000332059_00118_27727_5650.N1	20-JUN-2007 03:07:06	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27727	No
37	GOM_TRA_1PNPDE20070620_031725_000000532059_00118_27727_5780.N1	20-JUN-2007 03:17:25	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27727	No
38	GOM_TRA_1PNPDE20070620_033141_000000442059_00118_27727_5781.N1	20-JUN-2007 03:31:41	Dark	43.500	94	92Alp Cet	2.5260	3100.0	87	27727	No
39	GOM_TRA_1PNPDE20070620_035457_000000372059_00119_27728_5782.N1	20-JUN-2007 03:54:57	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	27728	No
40	GOM_TRA_1PNPDE20070620_040559_000000402059_00119_27728_5783.N1	20-JUN-2007 04:05:59	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	27728	No
41	GOM_TRA_1PNPDE20070620_040722_000000382059_00119_27728_5784.N1	20-JUN-2007 04:07:22	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27728	No
42	GOM_TRA_1PNPDE20070620_040908_000000452059_00119_27728_5785.N1	20-JUN-2007 04:09:08	Tw_i_and_stray	45.000	40	The Sco	1.8590	7100.0	90	27728	No
43	GOM_TRA_1PNPDE20070620_041050_000000422059_00119_27728_5786.N1	20-JUN-2007 04:10:50	Tw_i_and_stray	41.500	25	35Lam Sco	1.6200	28000.	83	27728	No
44	GOM_TRA_1PNPDE20070620_041213_000000392059_00119_27728_5787.N1	20-JUN-2007 04:12:13	Bright	39.000	75	26Eps Sco	2.2910	4250.0	78	27728	No
45	GOM_TRA_1PNPDE20070620_041457_000000362059_00119_27728_5788.N1	20-JUN-2007 04:14:57	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27728	No
46	GOM_TRA_1PNPDE20070620_041717_000000372059_00119_27728_5789.N1	20-JUN-2007 04:17:17	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27728	No
47	GOM_TRA_1PNPDE20070620_041901_000000362059_00119_27728_5790.N1	20-JUN-2007 04:19:01	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27728	No
48	GOM_TRA_1PNPDE20070620_042107_000000352059_00119_27728_5791.N1	20-JUN-2007 04:21:07	Bright	35.000	120	1Del Oph	2.7340	3200.0	70	27728	No
49	GOM_TRA_1PNPDE20070620_042412_000000362059_00119_27728_5792.N1	20-JUN-2007 04:24:12	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	27728	No
50	GOM_TRA_1PNPDE20070620_042810_000000362059_00119_27728_5793.N1	20-JUN-2007 04:28:10	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27728	No

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



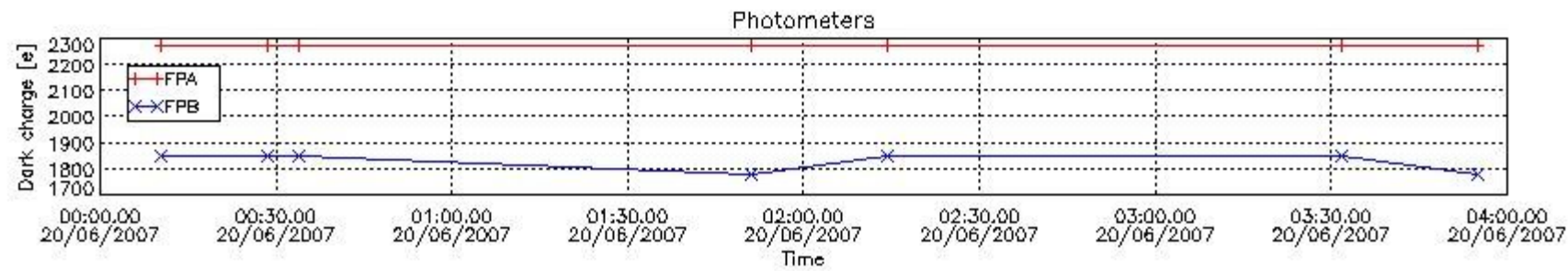
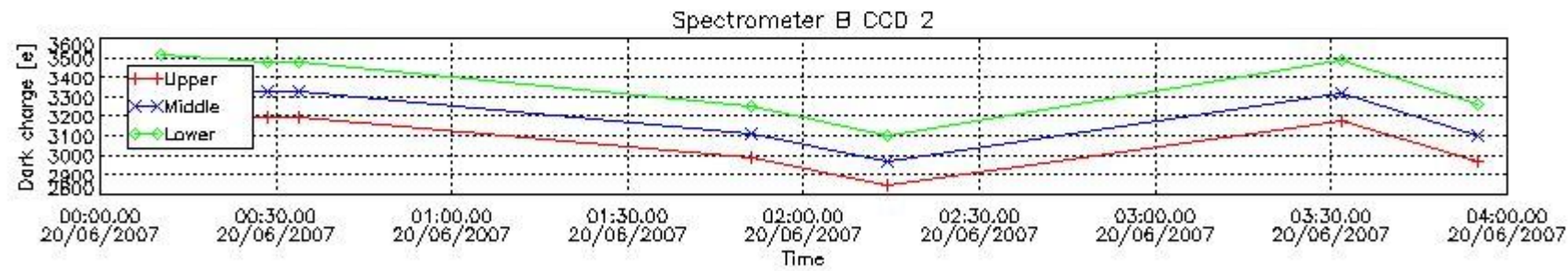
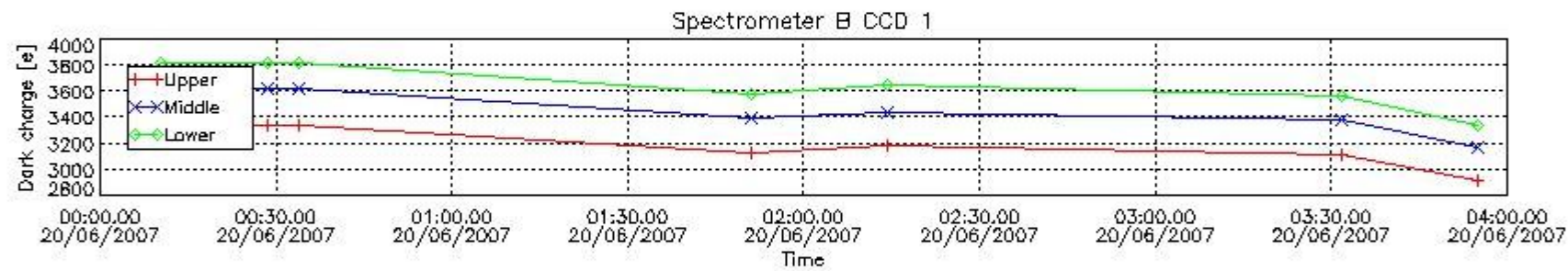
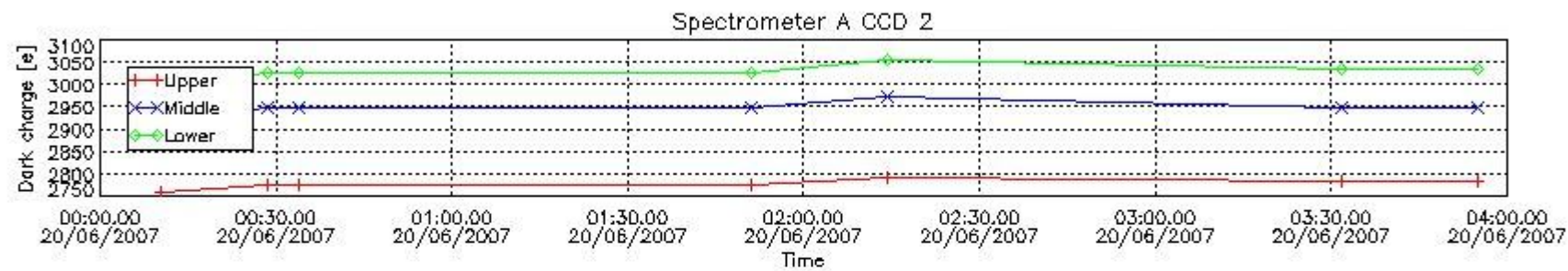
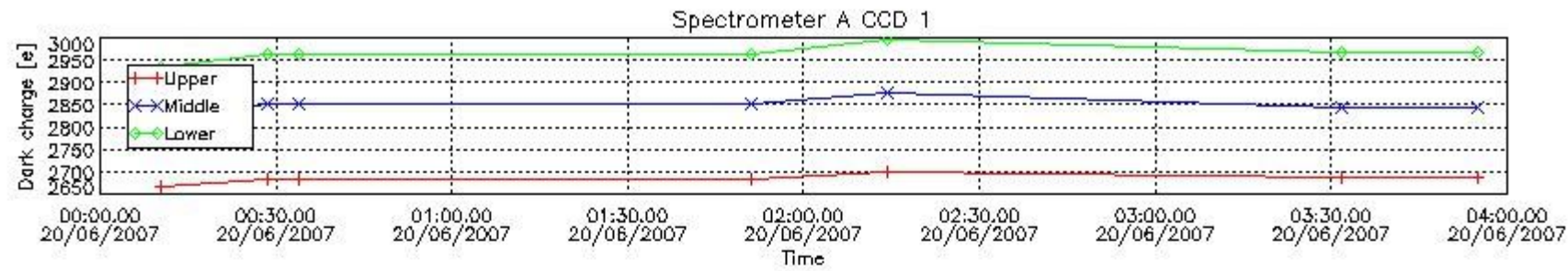
4. Overview of dark signal processing per product

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



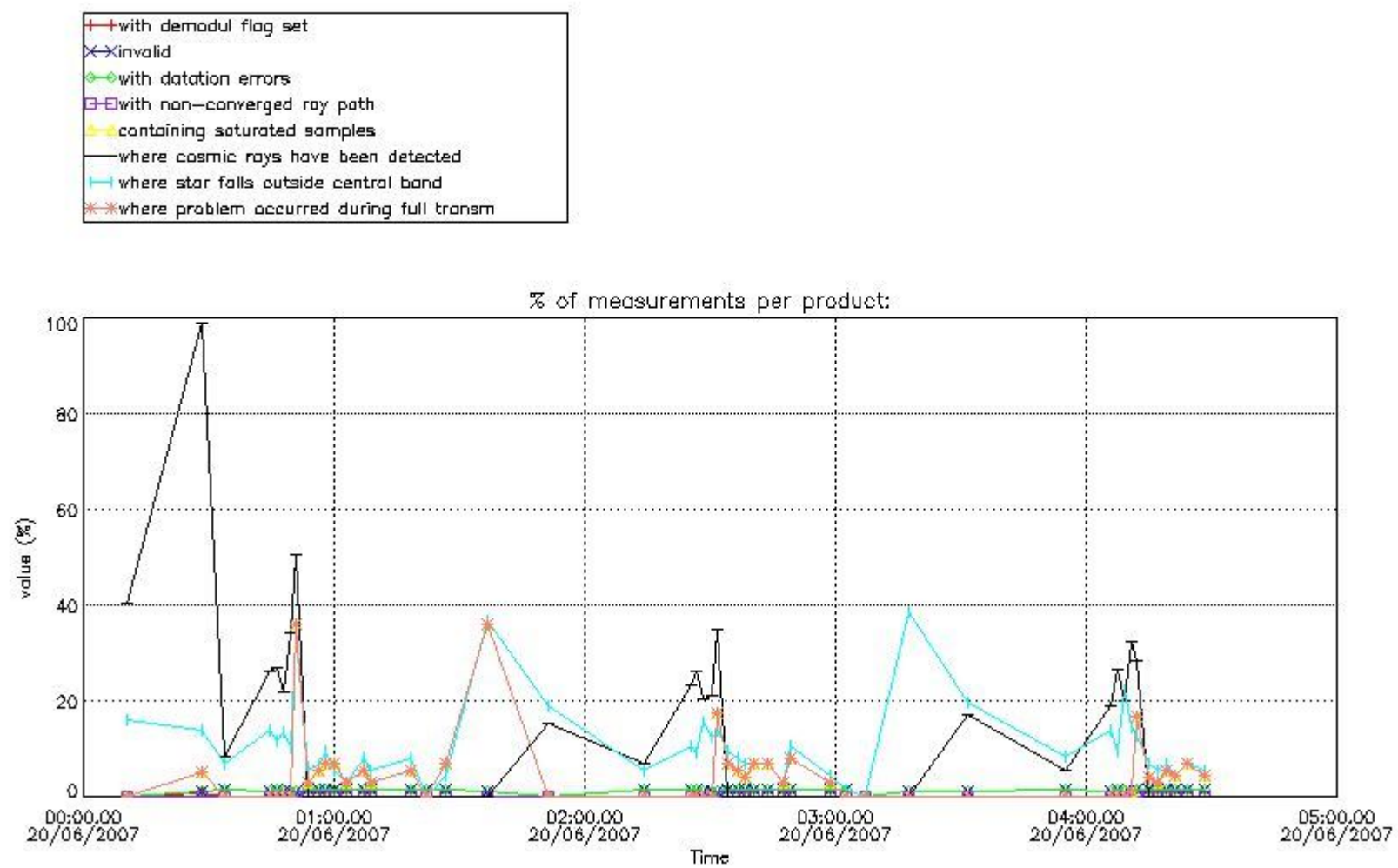
5. Demodulation flag and quality information monitoring

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.

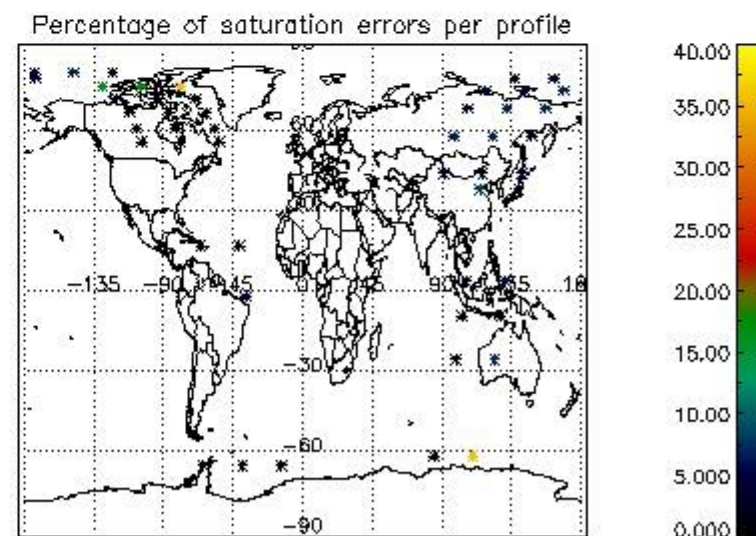
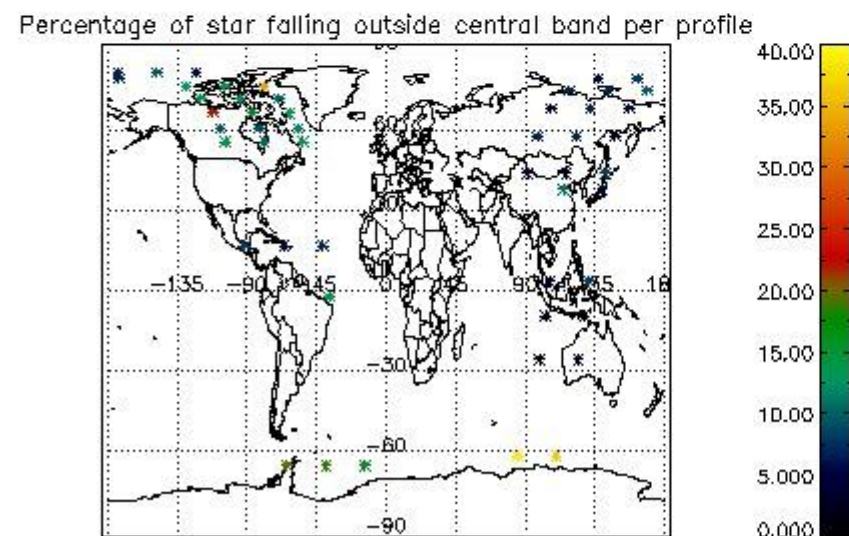
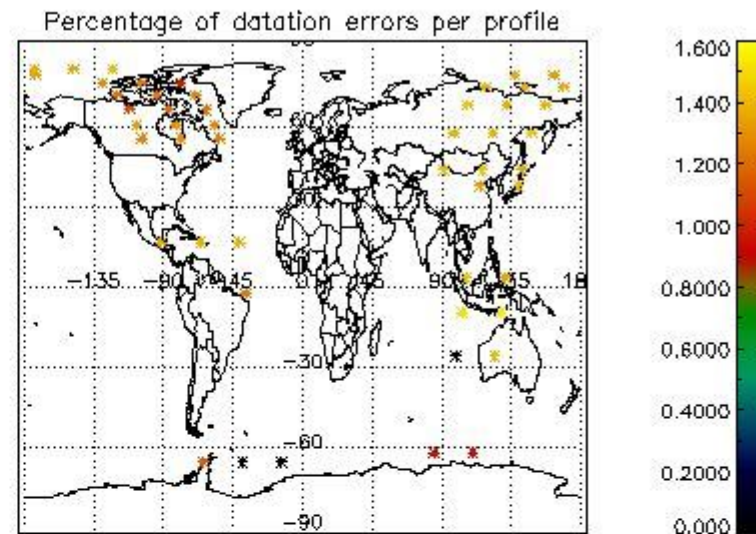
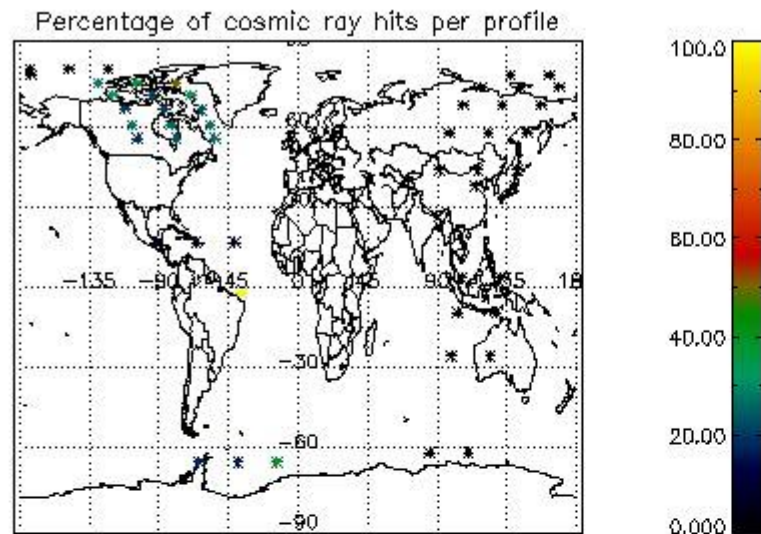
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



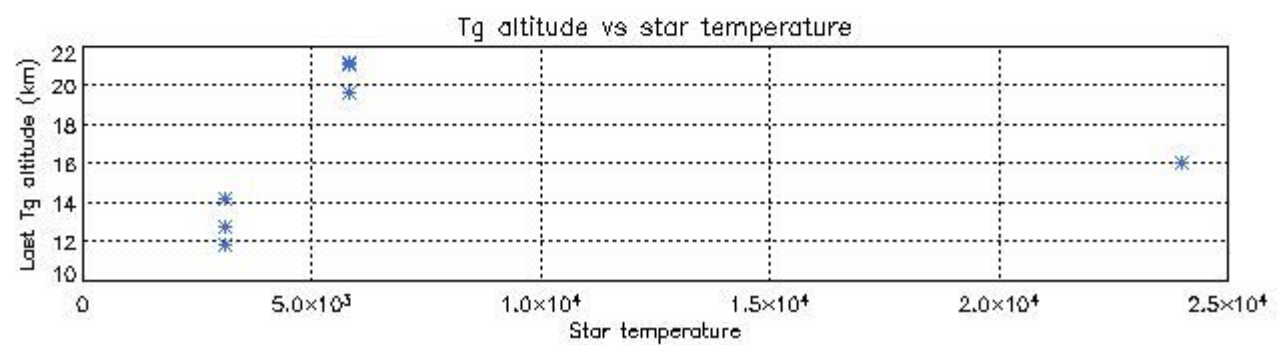
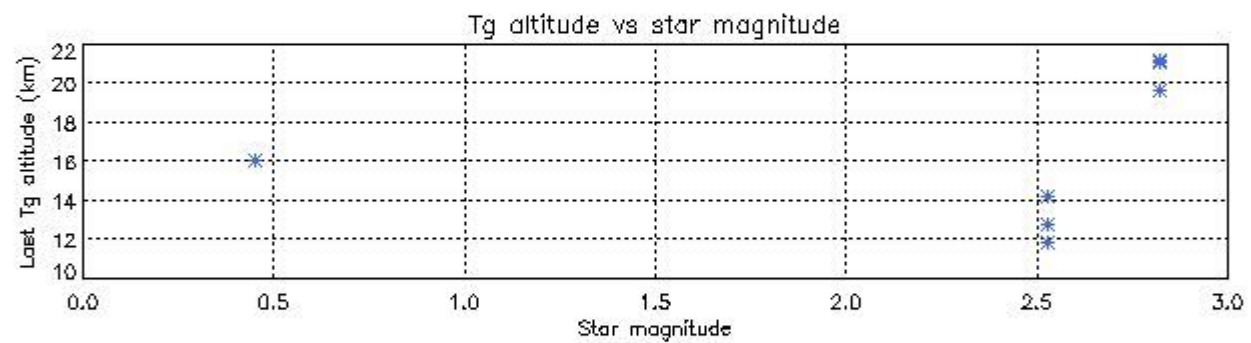
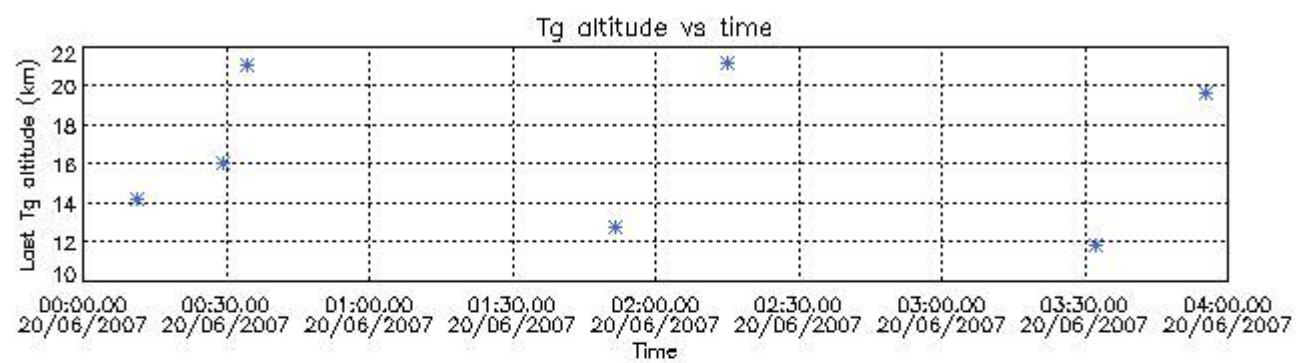
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.688	19.371	NaN
St. deviation:	3.9410	5.8399	NaN
Maximum:	21.137	29.064	NaN
Minimum:	11.842	3.9855	NaN
Number of data:	7.0000	31.000	NaN

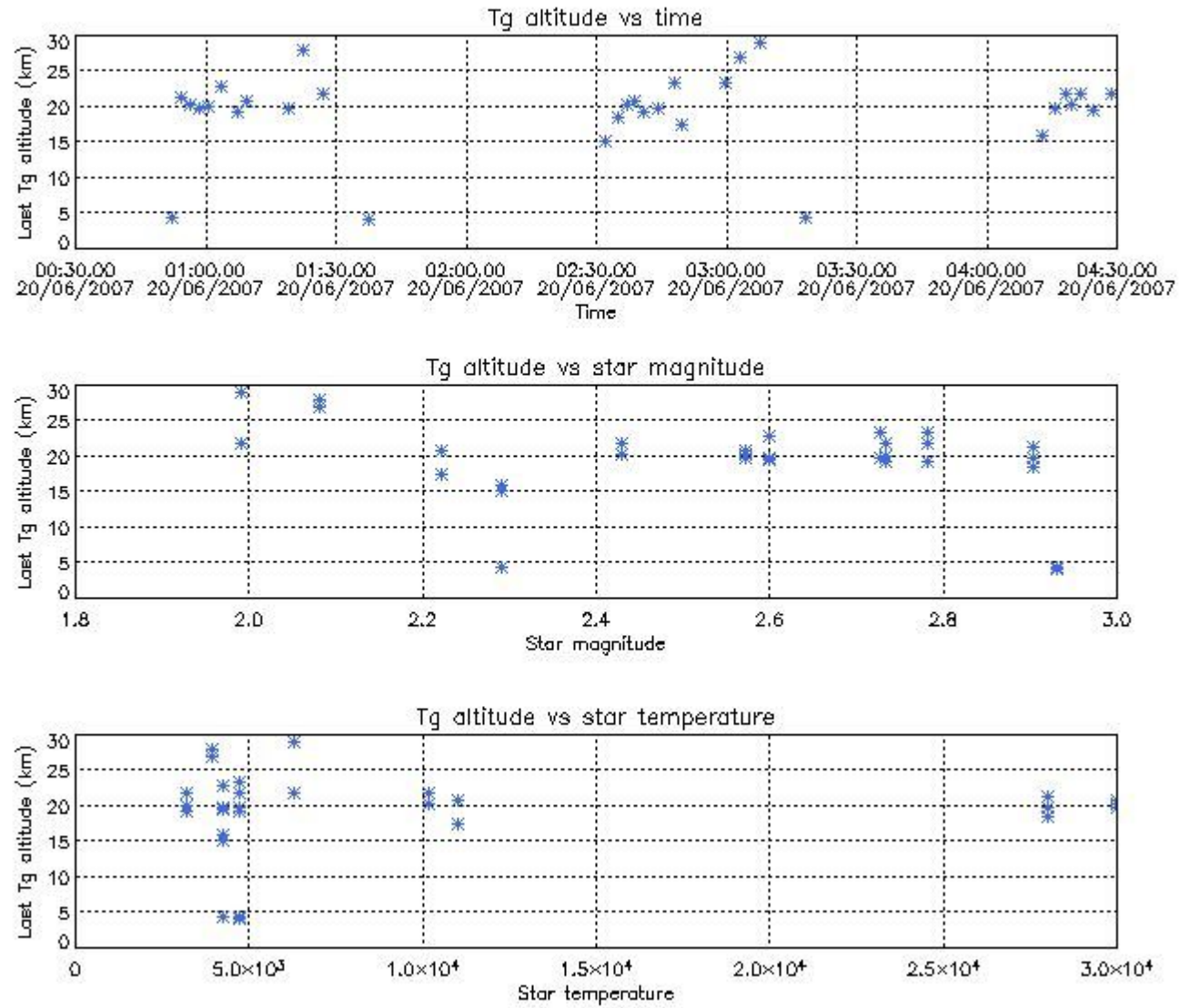
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

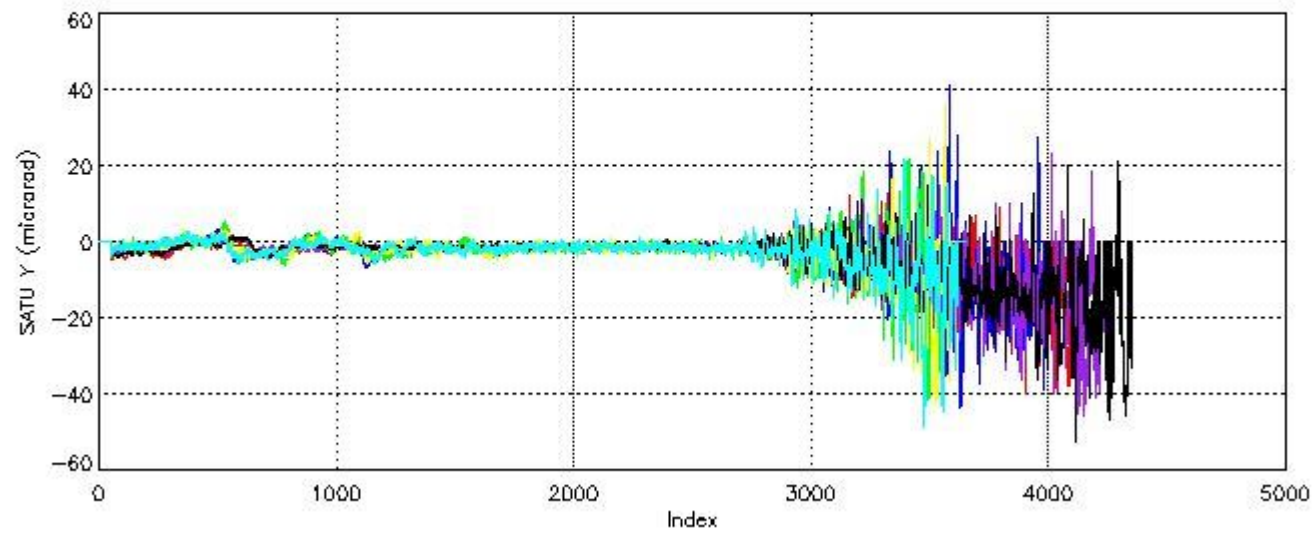
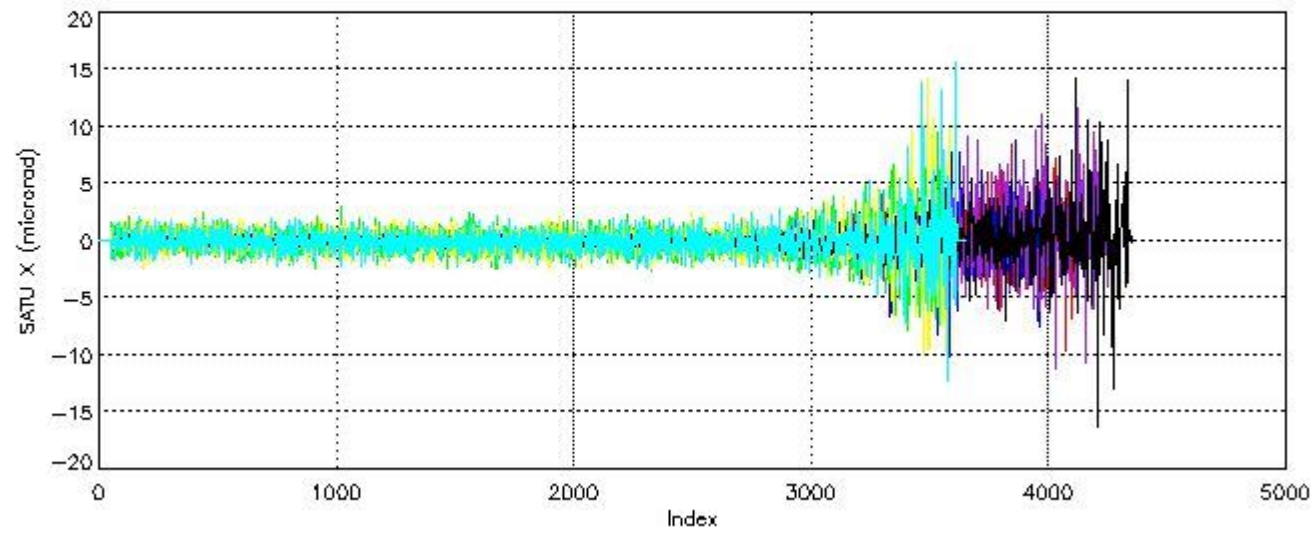


7. Star Acquisition and Tracking Unit (SATU)

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:	0.00072456	-1.3804	0.056249	-1.2210
St. deviation:	0.43527	1.5872	0.74099	1.8345
Maximum:	2.4000	5.2000	4.1000	6.5000
Minimum:	-2.4000	-6.4000	-5.1000	-7.3000

Number of data:	6150.0	6150.0	25500.	25500.
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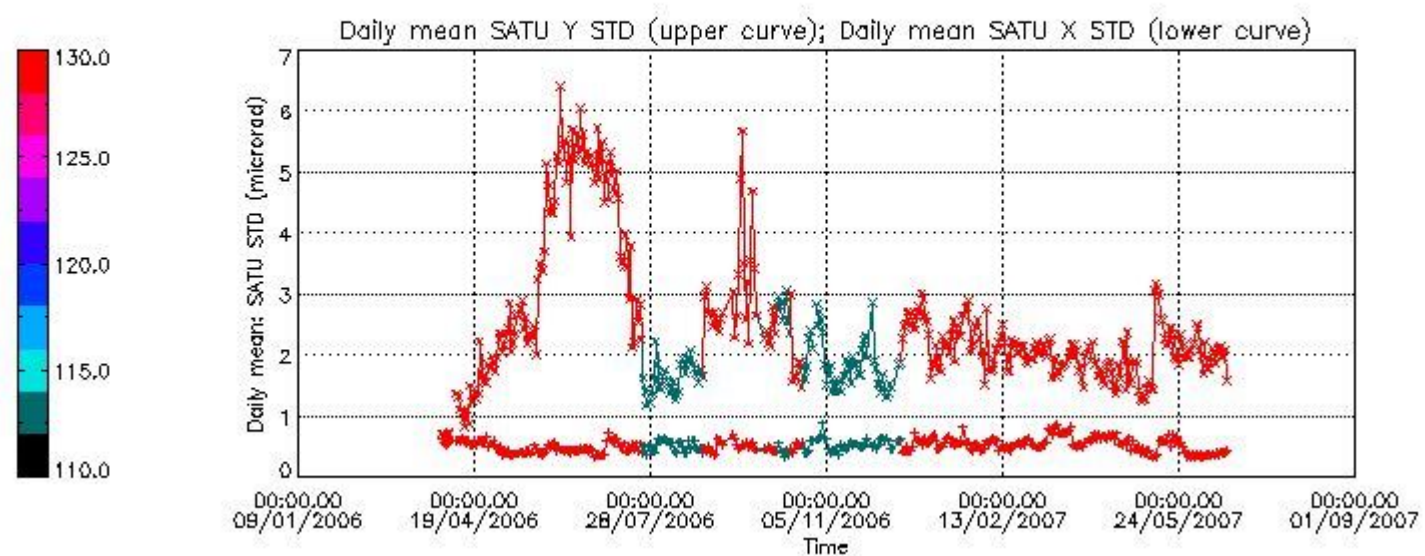
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

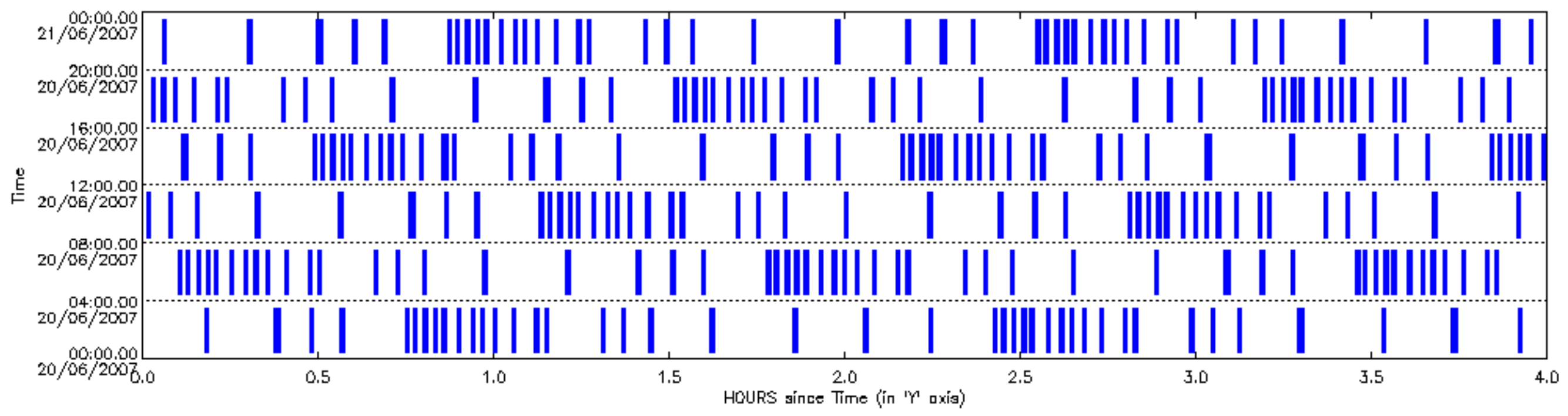
Lower curve: STD of SATU X axis

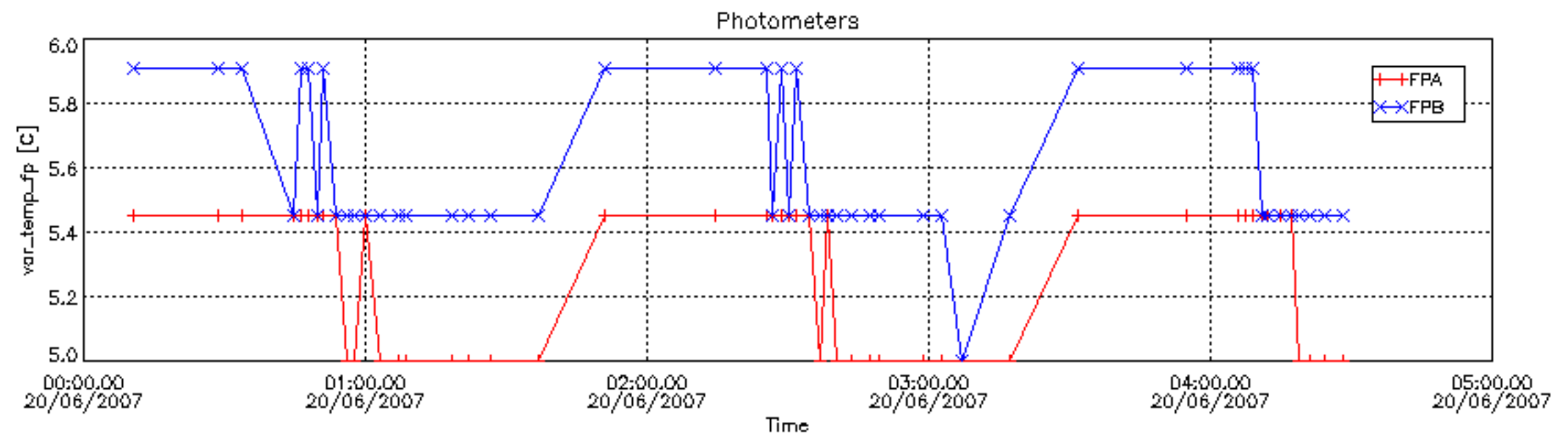
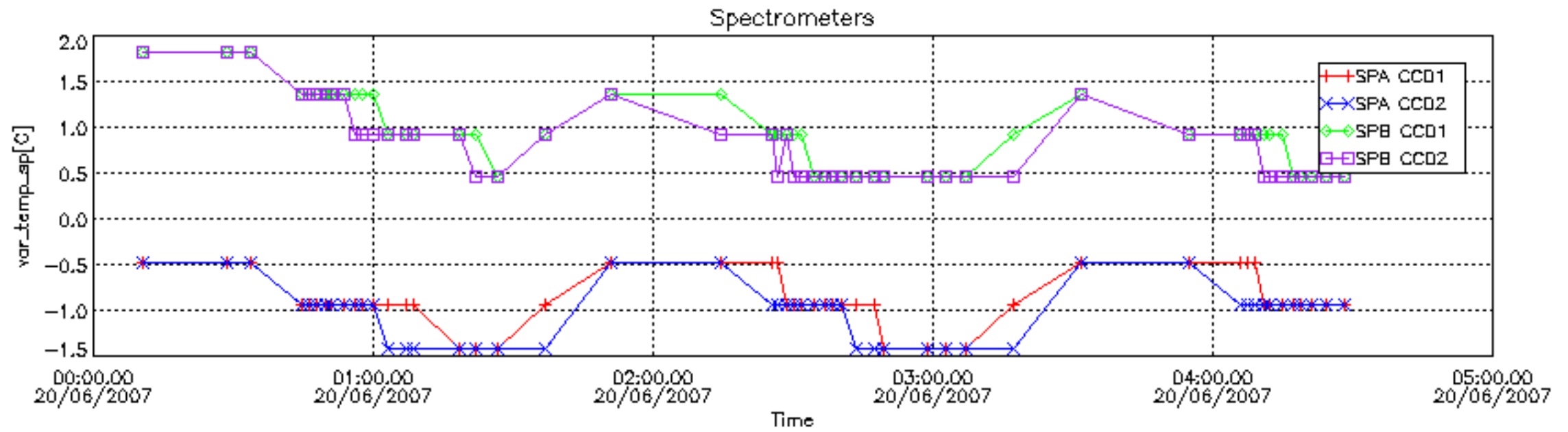


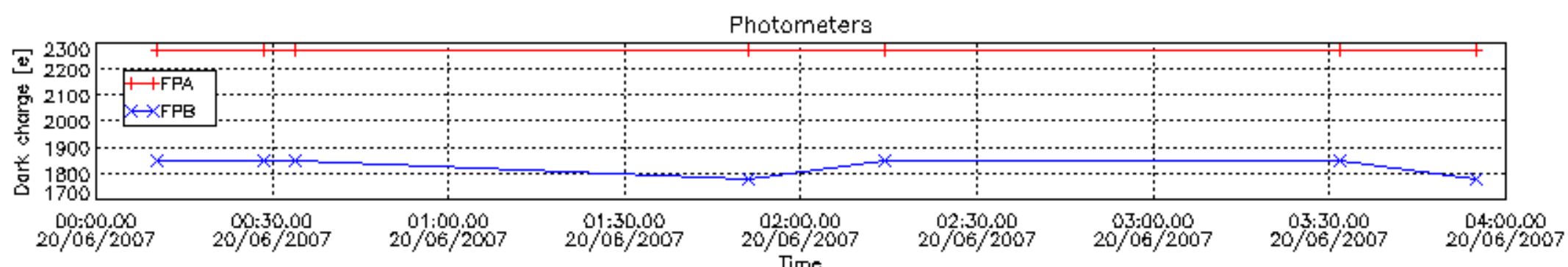
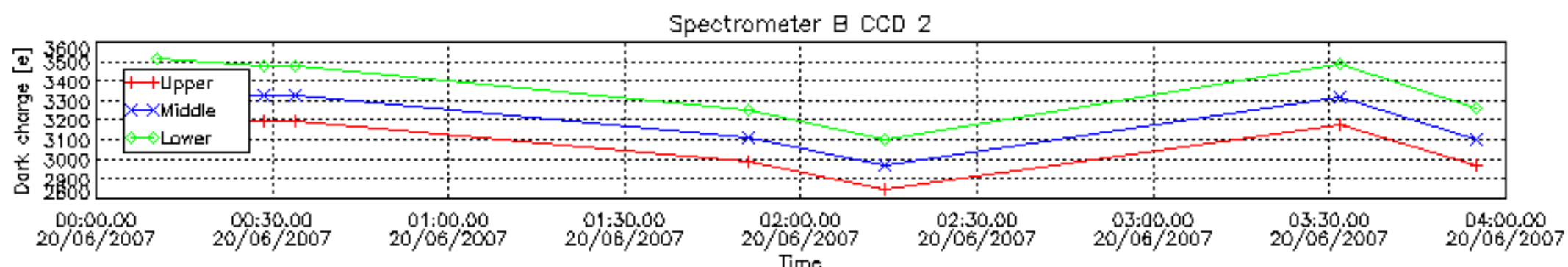
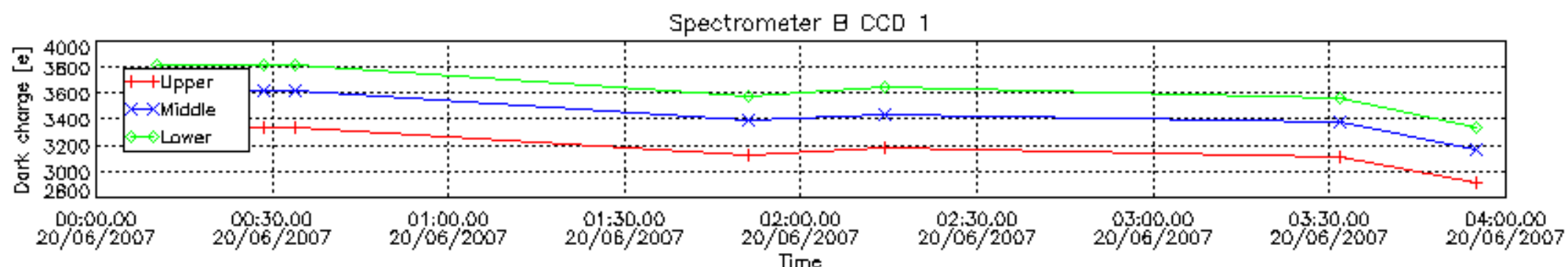
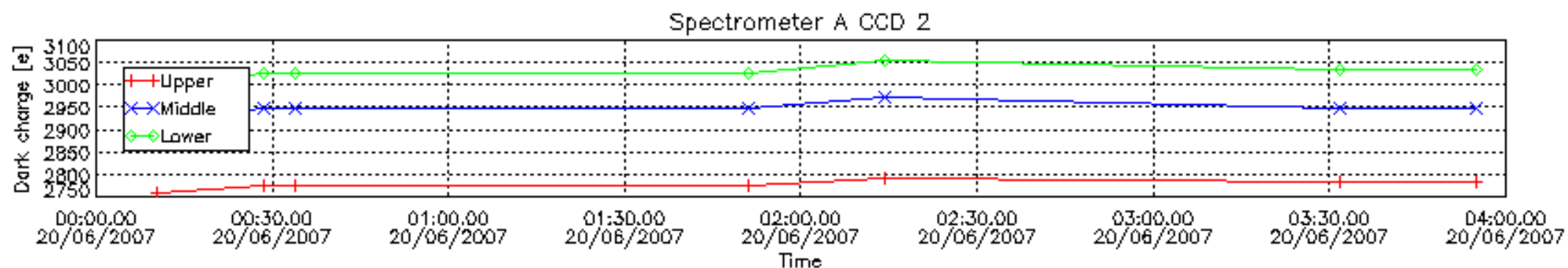
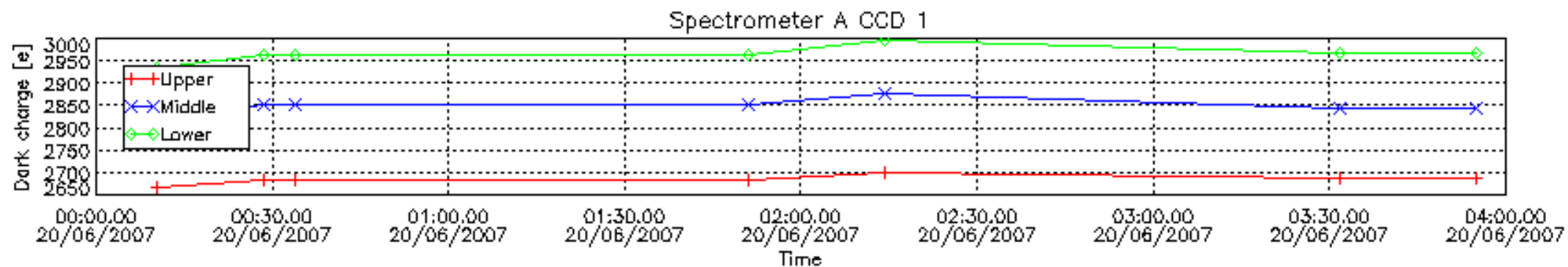
8. Auxiliary Data Files used for the production reported in section 2.4

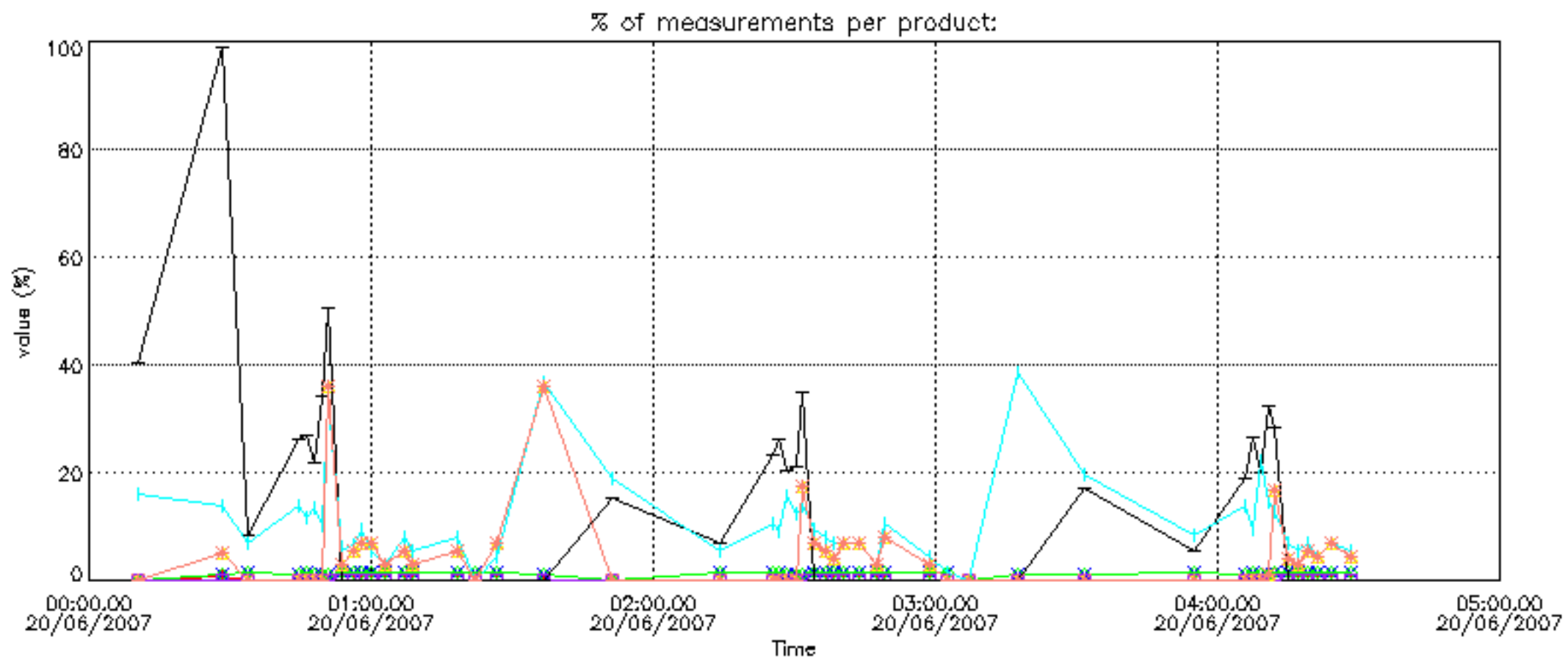
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-JUN-2007 00:10:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	20-JUN-2007 00:10:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-JUN-2007 00:10:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JUN-2007 00:10:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-JUN-2007 00:10:29
ECMWF_FILE	AUX_ECF_AXNECM20070619_062109_20070619_210000_20070620_090000	1	20-JUN-2007 00:10:29
ECMWF_FILE	AUX_ECF_AXNECM20070619_182110_20070620_030000_20070620_150000	37	20-JUN-2007 03:17:25
OPTIONAL_ECMWF_FILE	MISSING	1	20-JUN-2007 00:10:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070619_204501_000060572059_00114_27723_3609.N1	1	20-JUN-2007 00:10:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070619_223117_000057382059_00115_27724_3610.N1	2	20-JUN-2007 00:28:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070620_001214_000054192059_00116_27725_3611.N1	21	20-JUN-2007 02:14:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070620_014752_000044632059_00117_27726_3612.N1	37	20-JUN-2007 03:17:25

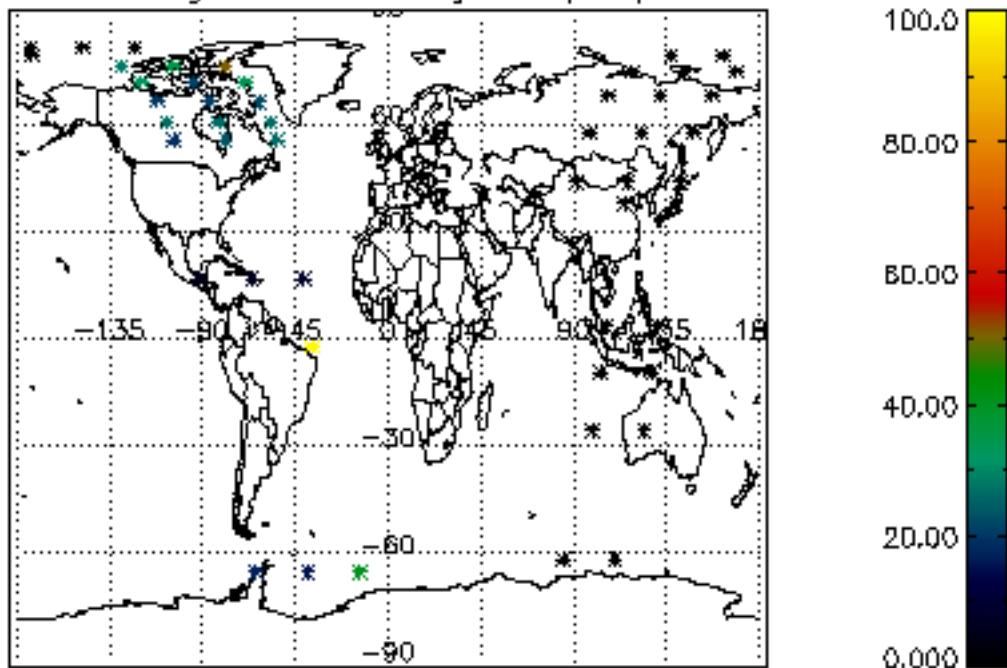




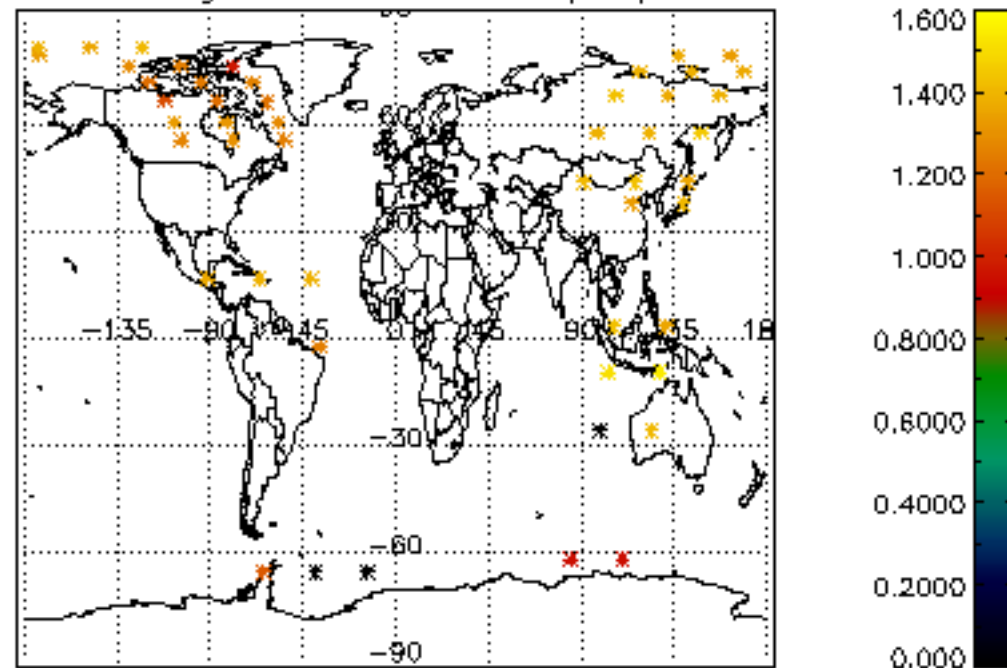




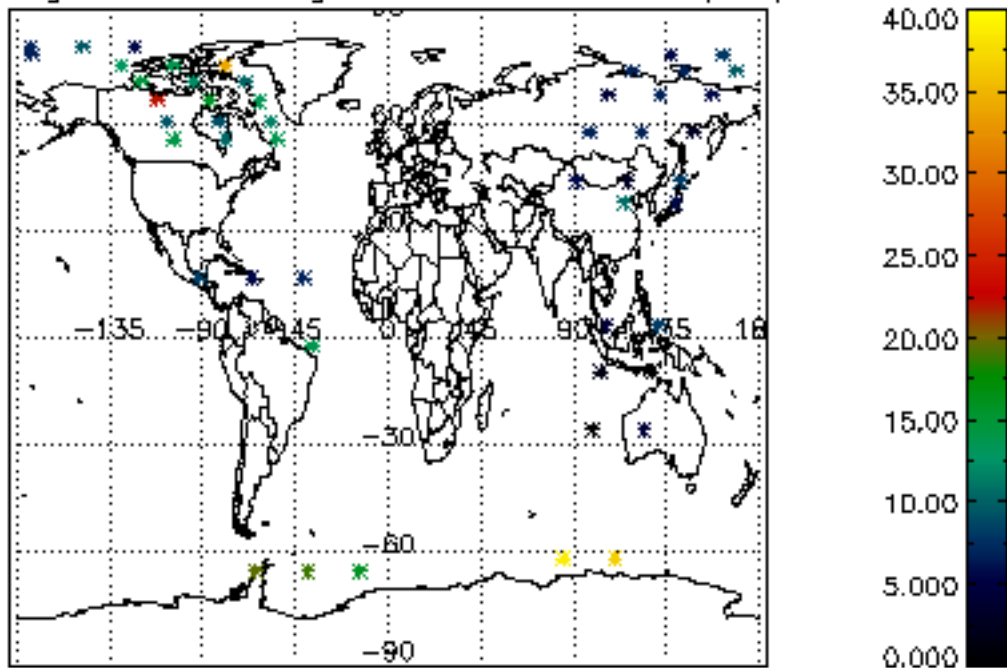
Percentage of cosmic ray hits per profile



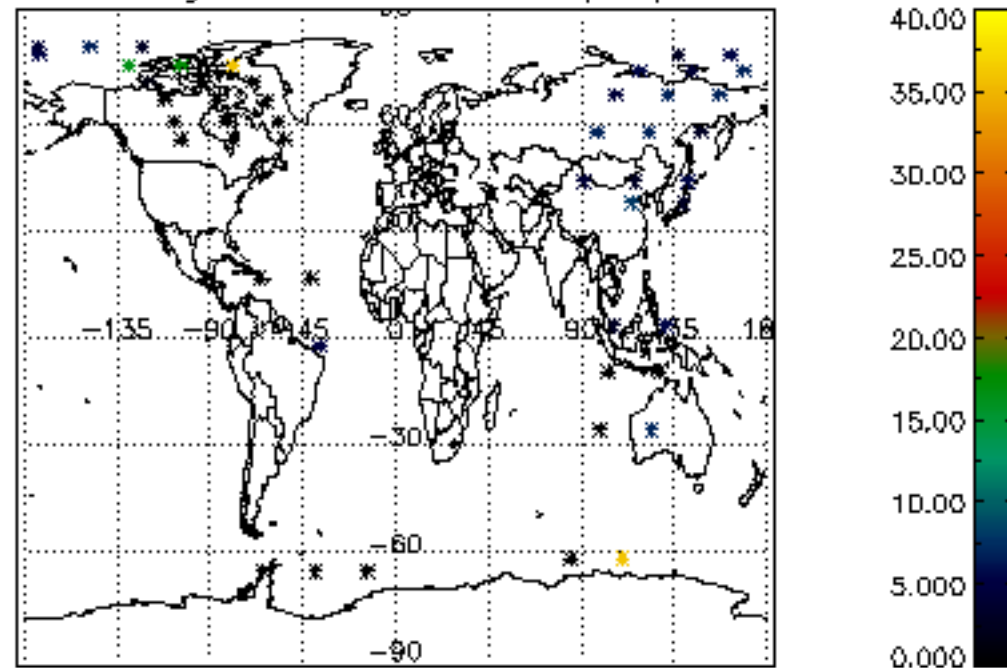
Percentage of datation errors per profile



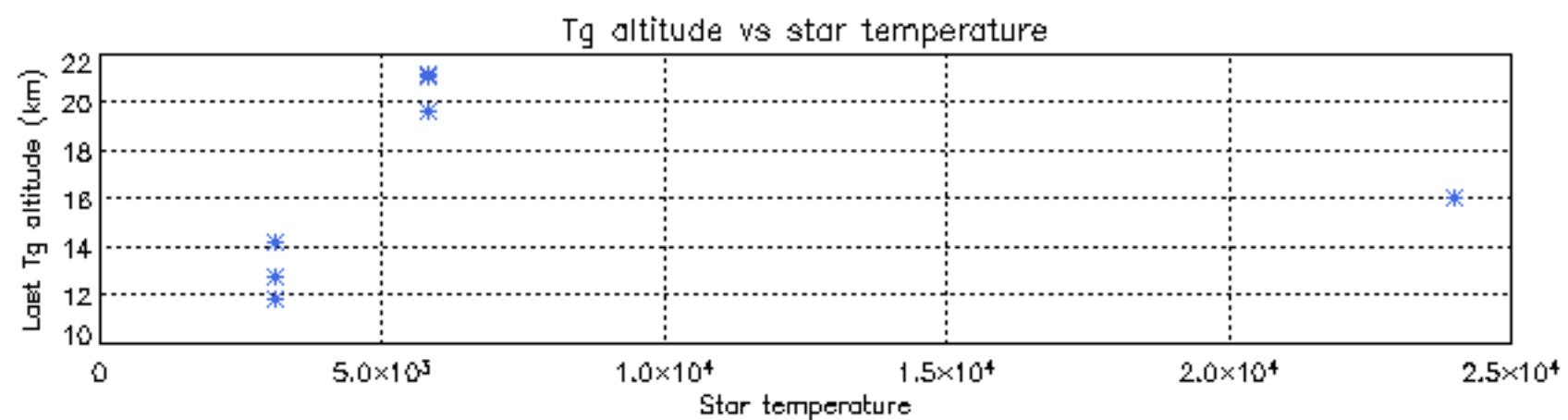
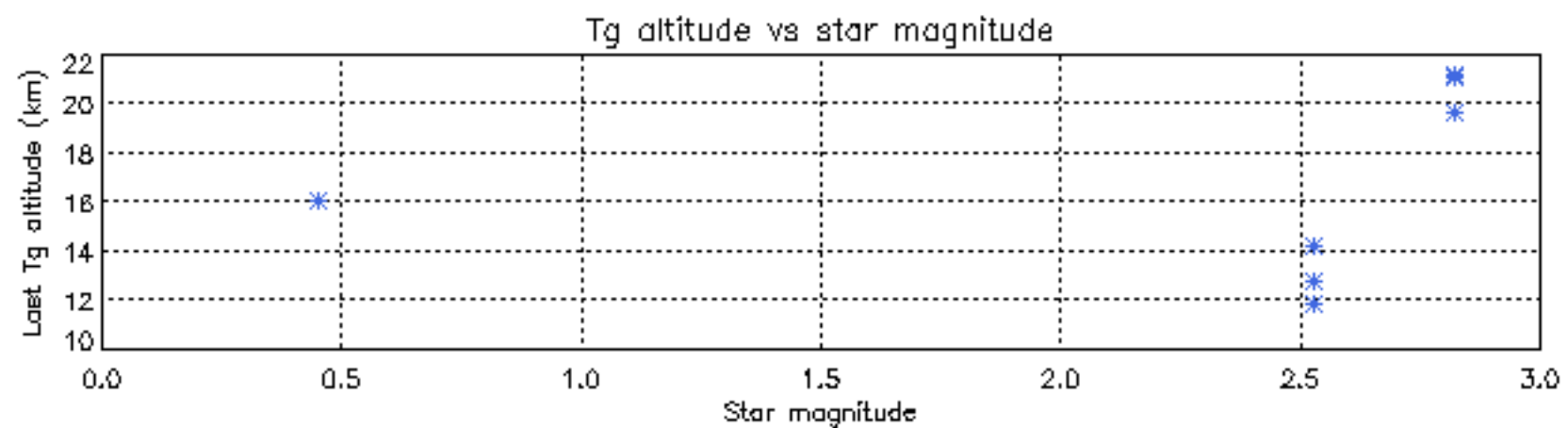
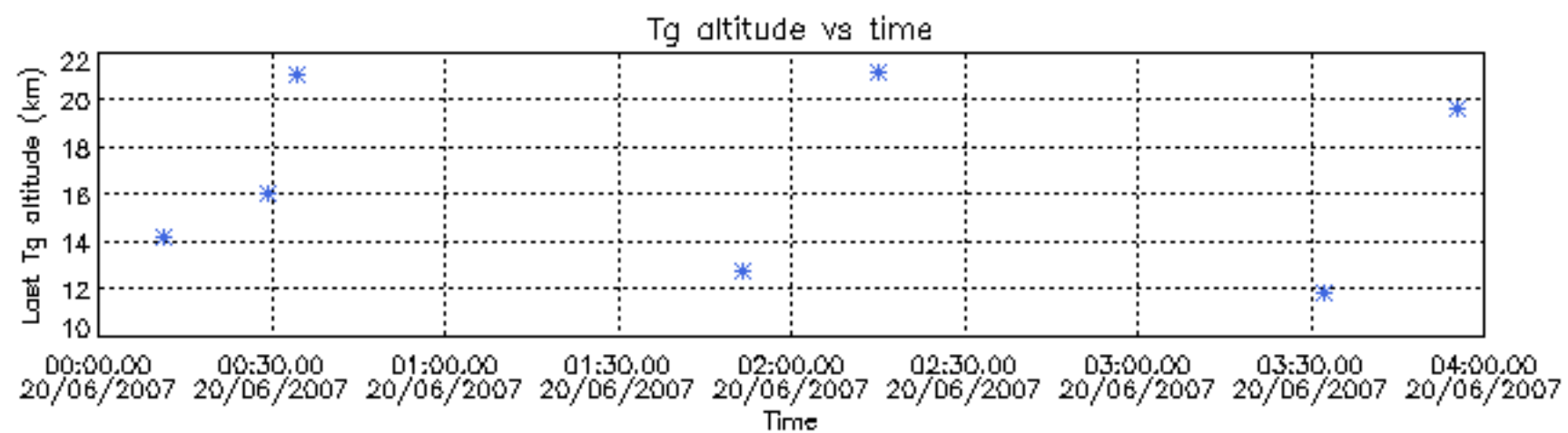
Percentage of star falling outside central band per profile



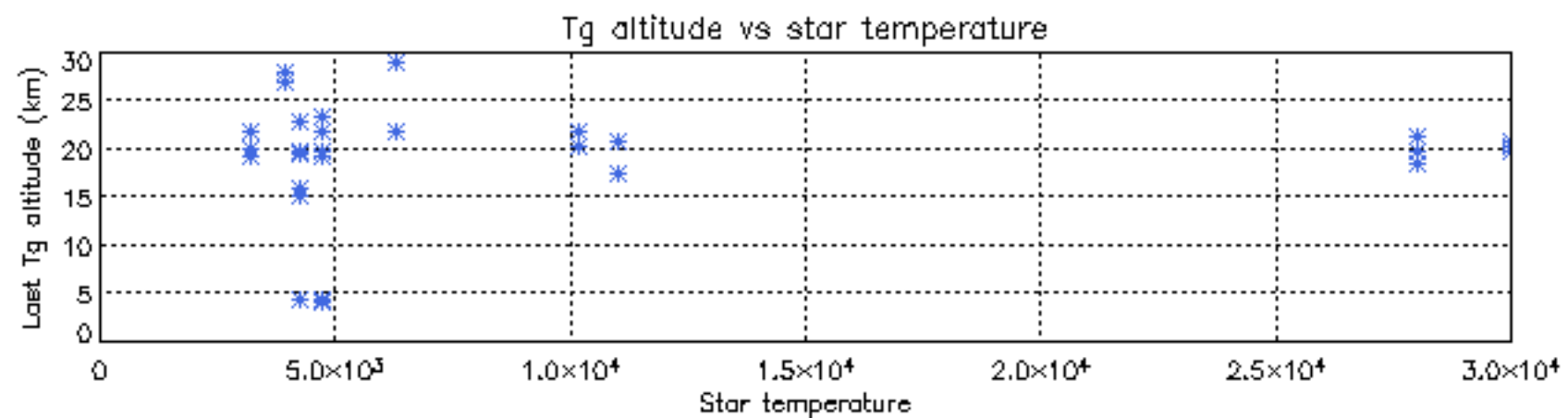
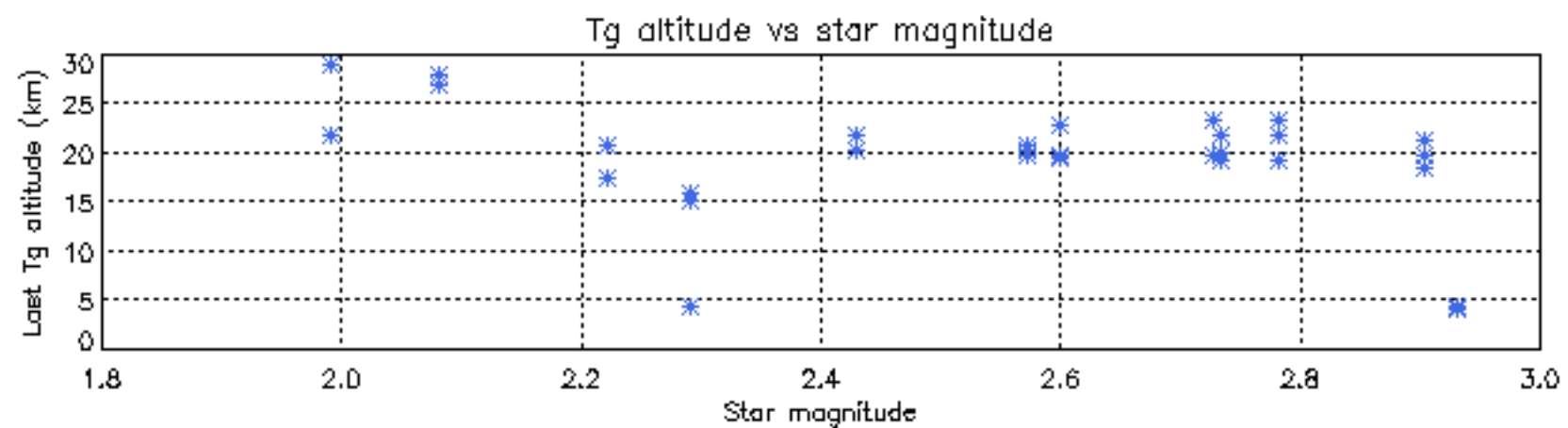
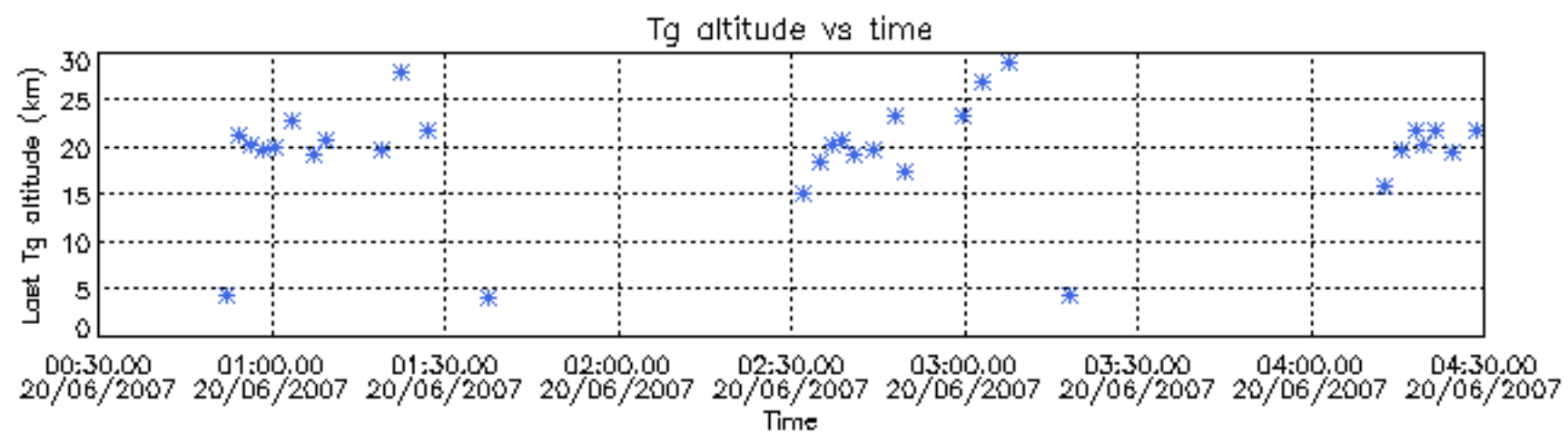
Percentage of saturation errors per profile

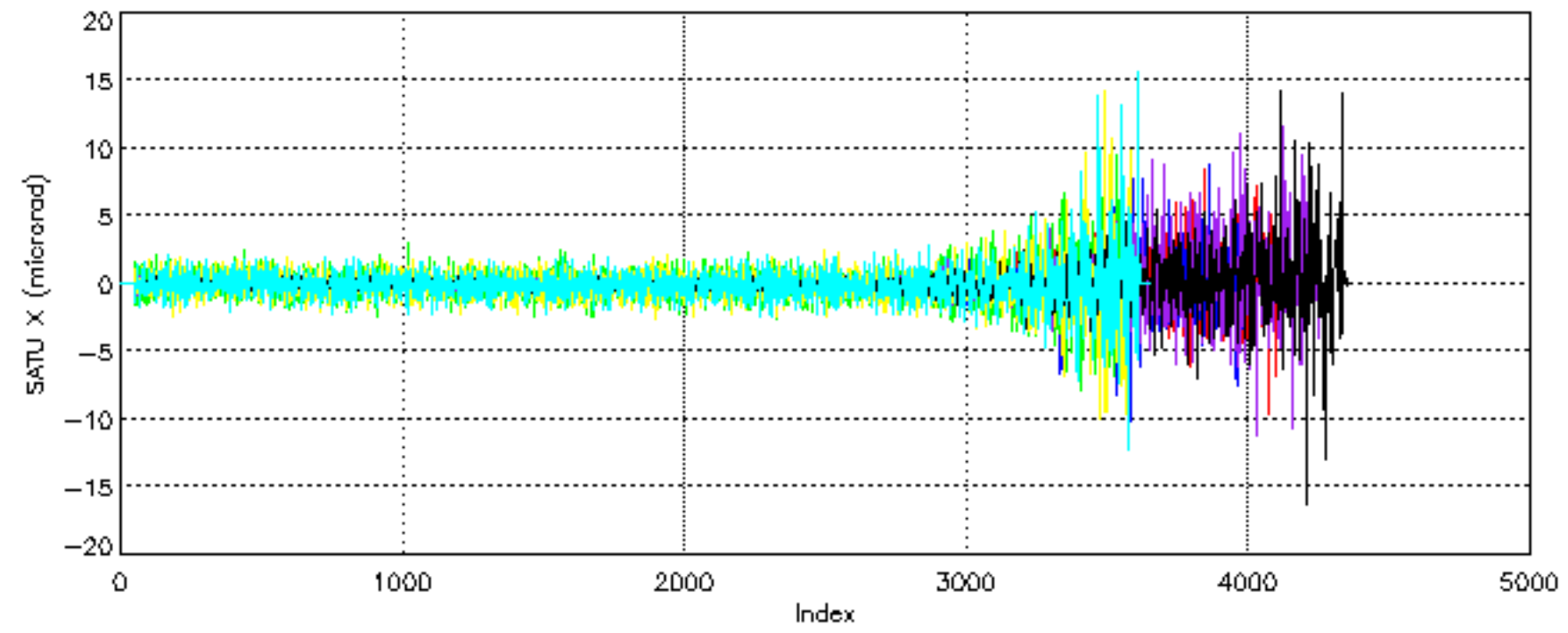


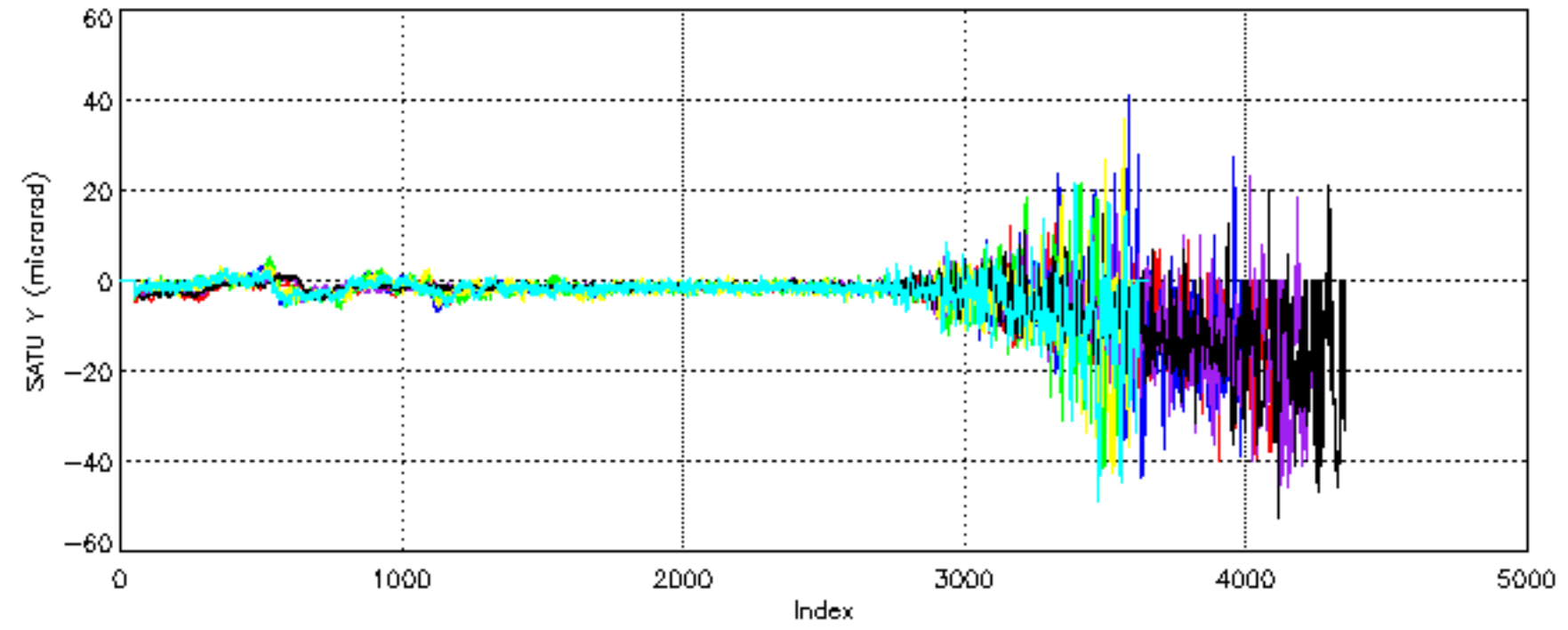
Tangent altitude at which the star is lost

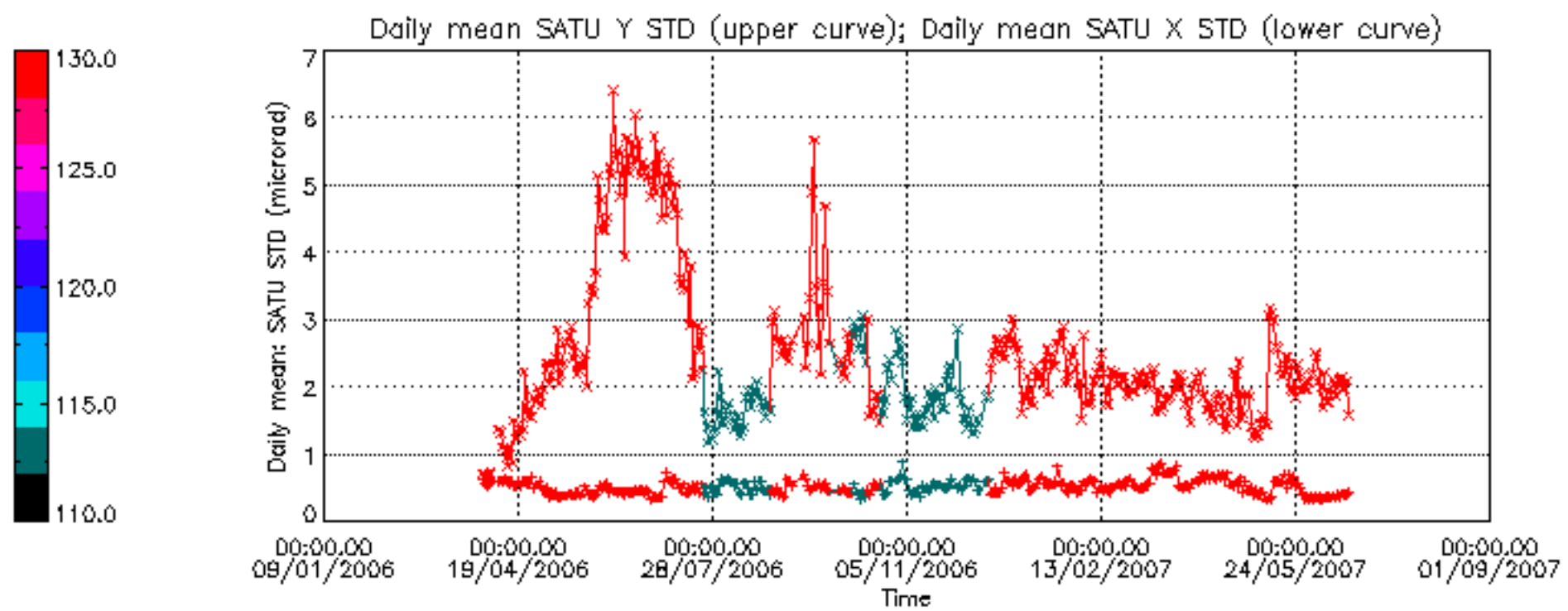


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_001523_000050842058_00345_27453_3813.N1

1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
 2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_015600_000041292058_00346_27454_3814.N1

1; -647.3; 01-JUN-2007 01:56:00; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27454
 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
 17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
 20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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1; -2106.4; 01-JUN-2007 03:12:17; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;27455
 2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
 4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
 5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
 6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
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 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456
 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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1; 879.2; 01-JUN-2007 20:48:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 34;27466
 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 2; -381.8; 01-JUN-2007 22:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27466
 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467
 11; 1252.8; 01-JUN-2007 22:34:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27467
 12; 1374.4; 01-JUN-2007 22:36:53; Dark ; 39.5; 136; 23Tau Sco ; 2.82; 30000;occ; 79; 0;27467
 13; 1545.1; 01-JUN-2007 22:39:44; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27467
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16; 3446.7; 05-JUN-2007 21:04:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27523
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18; 4261.8; 05-JUN-2007 21:18:32; Bright; 35.0; 73; 57Gam1And ; 2.26; 13100;occ; 70; 0;27523
19; 4400.3; 05-JUN-2007 21:20:51; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;27523
20; 4645.6; 05-JUN-2007 21:24:56; Dark ; 39.0; 105; 6Bet Ari ; 2.64; 8900;occ; 78; 0;27523

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2;	-354.3;	05-JUN-2007	21:42:12;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27523
3;	-204.8;	05-JUN-2007	21:44:42;	Dark	;	47.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	94;	0;	27523
4;	133.0;	05-JUN-2007	21:50:20;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27524
5;	250.2;	05-JUN-2007	21:52:17;	Dark	;	46.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	93;	0;	27524
6;	531.3;	05-JUN-2007	21:56:58;	Dark	;	41.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	82;	0;	27524
7;	883.1;	05-JUN-2007	22:02:50;	Dark	;	37.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	75;	0;	27524
8;	960.5;	05-JUN-2007	22:04:07;	Dark	;	40.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	80;	0;	27524
9;	1063.2;	05-JUN-2007	22:05:50;	Dark	;	45.5;	40;	The	Sco	;	1.86;	7100;	occ;	91;	0;	27524
10;	1169.6;	05-JUN-2007	22:07:36;	Dark	;	45.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	91;	0;	27524
11;	1269.0;	05-JUN-2007	22:09:16;	Dark	;	46.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	92;	0;	27524
12;	1387.6;	05-JUN-2007	22:11:14;	Dark	;	46.0;	136;	23Tau	Sco	;	2.82;	30000;	occ;	92;	0;	27524
13;	1508.8;	05-JUN-2007	22:13:15;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27524
14;	1597.4;	05-JUN-2007	22:14:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27524
15;	1705.9;	05-JUN-2007	22:16:32;	Bright;		38.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	77;	0;	27524
16;	1834.4;	05-JUN-2007	22:18:41;	Bright;		38.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	77;	0;	27524
17;	2014.7;	05-JUN-2007	22:21:41;	Bright;		35.5;	102;	24Alp	Ser	;	2.60;	4250;	occ;	71;	0;	27524
18;	2302.4;	05-JUN-2007	22:26:29;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27524
19;	2500.5;	05-JUN-2007	22:29:47;	Bright;		42.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	84;	0;	27524
20;	2988.2;	05-JUN-2007	22:37:55;	Bright;		37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	27524
21;	3165.2;	05-JUN-2007	22:40:52;	Bright;		35.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	70;	0;	27524
22;	3446.7;	05-JUN-2007	22:45:33;	Bright;		33.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	67;	0;	27524
23;	3922.3;	05-JUN-2007	22:53:29;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27524
24;	4261.8;	05-JUN-2007	22:59:08;	Bright;		35.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	71;	0;	27524
25;	4400.3;	05-JUN-2007	23:01:27;	Dark	;	46.5;	53;	43Bet	And	;	2.05;	3300;	occ;	93;	0;	27524
26;	4645.6;	05-JUN-2007	23:05:32;	Dark	;	41.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	83;	0;	27524

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2;	-353.8;	05-JUN-2007	23:22:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27524
3;	-204.2;	05-JUN-2007	23:25:18;	Dark	;	40.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	80;	0;	27524
4;	133.9;	05-JUN-2007	23:30:56;	Dark	;	64.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	128;	0;	27525
5;	251.2;	05-JUN-2007	23:32:54;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27525
6;	532.0;	05-JUN-2007	23:37:34;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27525
7;	883.3;	05-JUN-2007	23:43:26;	Dark	;	40.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	81;	0;	27525
8;	960.8;	05-JUN-2007	23:44:43;	Dark	;	40.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	80;	0;	27525
9;	1063.7;	05-JUN-2007	23:46:26;	Dark	;	44.0;	40;	The	Sco	;	1.86;	7100;	occ;	88;	0;	27525
10;	1169.9;	05-JUN-2007	23:48:12;	Dark	;	44.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	89;	0;	27525
11;	1269.2;	05-JUN-2007	23:49:52;	Dark	;	48.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	96;	0;	27525
12;	1387.9;	05-JUN-2007	23:51:50;	Dark	;	46.0;	136;	23Tau	Sco	;	2.82;	30000;	occ;	92;	0;	27525
13;	1509.0;	05-JUN-2007	23:53:51;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27525
14;	1597.4;	05-JUN-2007	23:55:20;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27525
15;	1705.7;	05-JUN-2007	23:57:08;	Bright;		39.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	78;	0;	27525
16;	1834.5;	05-JUN-2007	23:59:17;	Bright;		38.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	76;	0;	27525
17;	2302.2;	06-JUN-2007	00:07:05;	Bright;		41.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	82;	0;	27525
18;	2500.2;	06-JUN-2007	00:10:23;	Bright;		39.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	79;	0;	27525
19;	2987.9;	06-JUN-2007	00:18:30;	Bright;		35.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	71;	0;	27525
20;	3165.2;	06-JUN-2007	00:21:28;	Bright;		37.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	75;	0;	27525
21;	3446.7;	06-JUN-2007	00:26:09;	Bright;		36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	27525
22;	3922.2;	06-JUN-2007	00:34:05;	Bright;		37.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	75;	0;	27525
23;	4261.9;	06-JUN-2007	00:39:44;	Bright;		34.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	69;	0;	27525
24;	4400.4;	06-JUN-2007	00:42:03;	Dark	;	44.0;	53;	43Bet	And	;	2.05;	3300;	occ;	88;	0;	27525
25;	4645.8;	06-JUN-2007	00:46:08;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27525

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3;	-1392.2;	05-JUN-2007	06:19:31;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27514
4;	-608.3;	05-JUN-2007	06:32:35;	Dark	;	47.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	95;	0;	27514
5;	-358.8;	05-JUN-2007	06:36:44;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27514
6;	-210.3;	05-JUN-2007	06:39:13;	Dark	;	41.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	82;	0;	27514
7;	125.0;	05-JUN-2007	06:44:48;	Dark	;	62.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	125;	0;	27515
8;	241.4;	05-JUN-2007	06:46:45;	Dark	;	46.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	92;	0;	27515
9;	525.3;	05-JUN-2007	06:51:28;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27515
10;	880.0;	05-JUN-2007	06:57:23;	Dark	;	41.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	83;	0;	27515
11;	957.2;	05-JUN-2007	06:58:40;	Dark	;	38.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	77;	0;	27515
12;	1059.7;	05-JUN-2007	07:00:23;	Dark	;	46.5;	40;	The	Sco	;	1.86;	7100;	occ;	93;	0;	27515
13;	1166.3;	05-JUN-2007	07:02:09;	Dark	;	44.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	89;	0;	27515
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5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
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24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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 21; 7107.4; 07-JUN-2007 09:18:32; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;27544
 22; 7213.2; 07-JUN-2007 09:20:18; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;27544
 23; 7310.7; 07-JUN-2007 09:21:56; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27544
 24; 7463.9; 07-JUN-2007 09:24:29; Bright; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;27544
 25; 7548.4; 07-JUN-2007 09:25:54; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27544
 26; 7635.6; 07-JUN-2007 09:27:21; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27544
 27; 7742.9; 07-JUN-2007 09:29:08; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;27544

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 3; 2297.2; 07-JUN-2007 09:38:58; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;27545
 4; 2492.6; 07-JUN-2007 09:42:14; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27545
 5; 2983.3; 07-JUN-2007 09:50:24; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27545
 6; 3165.3; 07-JUN-2007 09:53:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27545
 7; 3446.8; 07-JUN-2007 09:58:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27545
 8; 3919.1; 07-JUN-2007 10:06:00; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;27545
 9; 4263.4; 07-JUN-2007 10:11:44; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;27545
 10; 4402.1; 07-JUN-2007 10:14:03; Dark ; 56.5; 53; 43Bet And ; 2.05; 3300;occ; 113; 0;27545
 11; 4650.3; 07-JUN-2007 10:18:11; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27545
 12; 5450.2; 07-JUN-2007 10:31:31; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;27545
 13; 5693.2; 07-JUN-2007 10:35:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27545
 14; 5844.9; 07-JUN-2007 10:38:06; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27545
 15; 6188.9; 07-JUN-2007 10:43:50; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;27545
 16; 6307.4; 07-JUN-2007 10:45:48; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27545
 17; 6581.8; 07-JUN-2007 10:50:23; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27545
 18; 6926.4; 07-JUN-2007 10:56:07; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27545
 19; 7004.6; 07-JUN-2007 10:57:26; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27545
 20; 7107.8; 07-JUN-2007 10:59:09; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27545
 21; 7213.5; 07-JUN-2007 11:00:54; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;27545
 22; 7310.9; 07-JUN-2007 11:02:32; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27545
 23; 7464.1; 07-JUN-2007 11:05:05; Bright; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;27545
 24; 7548.6; 07-JUN-2007 11:06:30; Bright; 36.5; 80; 7Del Sco ; 2.32; 30000;occ; 73; 0;27545
 25; 7635.5; 07-JUN-2007 11:07:57; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;27545

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 2; 1835.2; 07-JUN-2007 11:11:52; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27546
 3; 2015.5; 07-JUN-2007 11:14:52; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27546
 4; 2296.9; 07-JUN-2007 11:19:34; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27546

5; 2492.3; 07-JUN-2007 11:22:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27546
6; 2983.0; 07-JUN-2007 11:31:00; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27546
7; 3165.2; 07-JUN-2007 11:34:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27546
8; 3446.7; 07-JUN-2007 11:38:44; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27546
9; 3919.0; 07-JUN-2007 11:46:36; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27546
10; 4263.5; 07-JUN-2007 11:52:20; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27546
11; 4402.2; 07-JUN-2007 11:54:39; Dark ; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;27546
12; 4650.5; 07-JUN-2007 11:58:47; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;27546
13; 5451.0; 07-JUN-2007 12:12:08; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27546
14; 5693.7; 07-JUN-2007 12:16:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27546
15; 5845.6; 07-JUN-2007 12:18:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27546
16; 6189.8; 07-JUN-2007 12:24:27; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27546
17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546
18; 6582.5; 07-JUN-2007 12:30:59; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27546
19; 6926.7; 07-JUN-2007 12:36:44; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27546
20; 7004.9; 07-JUN-2007 12:38:02; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27546
21; 7108.1; 07-JUN-2007 12:39:45; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27546
22; 7213.8; 07-JUN-2007 12:41:31; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;27546
23; 7311.2; 07-JUN-2007 12:43:08; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27546
24; 7464.3; 07-JUN-2007 12:45:41; Bright; 44.0; 16; 21Alp Sco ; 1.02; 3000;occ; 88; 0;27546
25; 7548.8; 07-JUN-2007 12:47:06; Bright; 36.5; 80; 7Del Sco ; 2.32; 30000;occ; 73; 0;27546
26; 7635.7; 07-JUN-2007 12:48:33; Bright; 17.5; 86; 35Eta Oph ; 2.43; 10200;occ; 35; 0;27546

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2; 1707.2; 07-JUN-2007 12:50:20; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27547
3; 1835.2; 07-JUN-2007 12:52:28; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27547
4; 2015.5; 07-JUN-2007 12:55:28; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27547
5; 2296.7; 07-JUN-2007 13:00:09; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27547
6; 2492.0; 07-JUN-2007 13:03:25; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27547
7; 2982.9; 07-JUN-2007 13:11:36; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27547
8; 3165.2; 07-JUN-2007 13:14:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27547
9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27547
10; 3919.0; 07-JUN-2007 13:27:12; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;27547
11; 4263.7; 07-JUN-2007 13:32:56; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27547
12; 4402.2; 07-JUN-2007 13:35:15; Dark ; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;27547
13; 4650.9; 07-JUN-2007 13:39:24; Dark ; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;27547
14; 5451.8; 07-JUN-2007 13:52:45; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;27547
15; 5694.3; 07-JUN-2007 13:56:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27547
16; 5846.3; 07-JUN-2007 13:59:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27547
17; 6190.7; 07-JUN-2007 14:05:03; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27547
18; 6309.3; 07-JUN-2007 14:07:02; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;27547
19; 6583.2; 07-JUN-2007 14:11:36; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27547
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21; 7005.5; 07-JUN-2007 14:18:38; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27547
22; 7108.6; 07-JUN-2007 14:20:21; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27547
23; 7214.3; 07-JUN-2007 14:22:07; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27547
24; 7311.5; 07-JUN-2007 14:23:44; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27547
25; 7464.5; 07-JUN-2007 14:26:17; Bright; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;27547

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3; 1599.9; 07-JUN-2007 14:29:08; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27548
4; 1707.3; 07-JUN-2007 14:30:56; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27548
5; 1835.3; 07-JUN-2007 14:33:04; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27548
6; 2015.5; 07-JUN-2007 14:36:04; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27548
7; 2296.5; 07-JUN-2007 14:40:45; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27548
8; 2491.6; 07-JUN-2007 14:44:00; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27548
9; 2982.8; 07-JUN-2007 14:52:11; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;27548
10; 3165.4; 07-JUN-2007 14:55:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27548
11; 3446.9; 07-JUN-2007 14:59:55; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27548
12; 3919.0; 07-JUN-2007 15:07:48; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27548
13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548
14; 4402.4; 07-JUN-2007 15:15:51; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27548
15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548
16; 5452.7; 07-JUN-2007 15:33:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;27548
17; 5694.9; 07-JUN-2007 15:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27548
18; 5847.0; 07-JUN-2007 15:39:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;27548
19; 6191.7; 07-JUN-2007 15:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27548

20; 6310.4; 07-JUN-2007 15:47:39; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;27548
 21; 6584.0; 07-JUN-2007 15:52:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27548
 22; 6927.4; 07-JUN-2007 15:57:56; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27548
 23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548
 24; 7109.0; 07-JUN-2007 16:00:58; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27548
 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27548
 26; 7311.7; 07-JUN-2007 16:04:20; Dark ; 17.0; 75; 26Eps Sco ; 2.29; 4250;occ; 34; 0;27548

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 3; 1513.1; 07-JUN-2007 16:08:18; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27549
 4; 1599.9; 07-JUN-2007 16:09:45; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;27549
 5; 1707.5; 07-JUN-2007 16:11:32; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27549
 6; 1835.4; 07-JUN-2007 16:13:40; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27549
 7; 2015.5; 07-JUN-2007 16:16:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27549
 8; 2296.3; 07-JUN-2007 16:21:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27549
 9; 2491.3; 07-JUN-2007 16:24:36; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;27549
 10; 2982.5; 07-JUN-2007 16:32:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27549
 11; 3165.4; 07-JUN-2007 16:35:50; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27549
 12; 3446.8; 07-JUN-2007 16:40:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27549
 13; 3918.9; 07-JUN-2007 16:48:24; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27549
 14; 4263.8; 07-JUN-2007 16:54:08; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27549
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 16; 4651.2; 07-JUN-2007 17:00:36; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27549
 17; 5453.4; 07-JUN-2007 17:13:58; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;27549
 18; 5695.5; 07-JUN-2007 17:18:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27549
 19; 5847.6; 07-JUN-2007 17:20:32; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27549
 20; 6192.6; 07-JUN-2007 17:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27549
 21; 6311.4; 07-JUN-2007 17:28:16; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27549
 22; 6584.6; 07-JUN-2007 17:32:49; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27549
 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
 24; 7006.2; 07-JUN-2007 17:39:51; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27549
 25; 7109.4; 07-JUN-2007 17:41:34; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27549

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 3; 1276.1; 07-JUN-2007 17:44:57; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;27550
 4; 1428.8; 07-JUN-2007 17:47:29; Bright; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;27550
 5; 1513.3; 07-JUN-2007 17:48:54; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27550
 6; 1600.1; 07-JUN-2007 17:50:21; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27550
 7; 1707.5; 07-JUN-2007 17:52:08; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27550
 8; 1835.4; 07-JUN-2007 17:54:16; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27550
 9; 2015.6; 07-JUN-2007 17:57:16; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27550
 10; 2296.1; 07-JUN-2007 18:01:57; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27550
 11; 2490.9; 07-JUN-2007 18:05:12; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27550
 12; 2982.3; 07-JUN-2007 18:13:23; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27550
 13; 3165.2; 07-JUN-2007 18:16:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27550
 14; 3446.8; 07-JUN-2007 18:21:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27550
 15; 3918.7; 07-JUN-2007 18:28:59; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27550
 16; 4263.7; 07-JUN-2007 18:34:44; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27550
 17; 4402.7; 07-JUN-2007 18:37:03; Dark ; 60.0; 53; 43Bet And ; 2.05; 3300;occ; 120; 0;27550
 18; 4651.4; 07-JUN-2007 18:41:12; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;27550
 19; 5454.2; 07-JUN-2007 18:54:35; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;27550
 20; 5696.0; 07-JUN-2007 18:58:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27550
 21; 5848.2; 07-JUN-2007 19:01:09; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;27550
 22; 6193.5; 07-JUN-2007 19:06:54; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;27550
 23; 6312.3; 07-JUN-2007 19:08:53; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27550
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11; 4064.2; 29-JUN-2007 11:57:39; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;27861
12; 4164.4; 29-JUN-2007 11:59:19; Bright; 47.5; 175; 39Del Per ; 3.01; 19400;occ; 95; 0;27861
13; 4293.6; 29-JUN-2007 12:01:28; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;27861
14; 4966.2; 29-JUN-2007 12:12:41; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;27861
15; 5193.7; 29-JUN-2007 12:16:29; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27861
16; 5700.1; 29-JUN-2007 12:24:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27861
17; 6058.7; 29-JUN-2007 12:30:54; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;27861
18; 6503.0; 29-JUN-2007 12:38:18; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27861
19; 6767.8; 29-JUN-2007 12:42:43; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27861
20; 7093.7; 29-JUN-2007 12:48:09; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27861
21; 7201.3; 29-JUN-2007 12:49:56; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;27861
22; 7301.3; 29-JUN-2007 12:51:36; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;27861
23; 7385.1; 29-JUN-2007 12:53:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;27861

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2; 1743.6; 29-JUN-2007 12:59:34; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27862
3; 1983.0; 29-JUN-2007 13:03:34; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27862
4; 2123.7; 29-JUN-2007 13:05:54; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27862
5; 2280.4; 29-JUN-2007 13:08:31; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;27862
6; 2446.7; 29-JUN-2007 13:11:17; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27862
7; 2813.8; 29-JUN-2007 13:17:25; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27862
8; 2951.7; 29-JUN-2007 13:19:42; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27862
9; 3187.9; 29-JUN-2007 13:23:39; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27862
10; 3445.7; 29-JUN-2007 13:27:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27862
11; 4064.3; 29-JUN-2007 13:38:15; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;27862
12; 4164.6; 29-JUN-2007 13:39:55; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;27862
13; 4293.9; 29-JUN-2007 13:42:05; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;27862
14; 4966.4; 29-JUN-2007 13:53:17; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27862
15; 5194.1; 29-JUN-2007 13:57:05; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;27862
16; 5700.6; 29-JUN-2007 14:05:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27862
17; 6059.3; 29-JUN-2007 14:11:30; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27862
18; 6503.6; 29-JUN-2007 14:18:54; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27862
19; 6768.4; 29-JUN-2007 14:23:19; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27862
20; 7093.9; 29-JUN-2007 14:28:45; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;27862
21; 7201.6; 29-JUN-2007 14:30:32; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27862
22; 7301.5; 29-JUN-2007 14:32:12; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;27862
23; 7385.5; 29-JUN-2007 14:33:36; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;27862

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3; 1982.9; 29-JUN-2007 14:44:10; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27863
4; 2123.7; 29-JUN-2007 14:46:30; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;27863
5; 2280.5; 29-JUN-2007 14:49:07; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;27863
6; 2446.8; 29-JUN-2007 14:51:53; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27863
7; 2813.7; 29-JUN-2007 14:58:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27863
8; 2951.9; 29-JUN-2007 15:00:18; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27863
9; 3188.1; 29-JUN-2007 15:04:15; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27863
10; 3445.7; 29-JUN-2007 15:08:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27863
11; 4064.2; 29-JUN-2007 15:18:51; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;27863
12; 4164.8; 29-JUN-2007 15:20:31; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27863
13; 4293.9; 29-JUN-2007 15:22:41; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;27863
14; 4967.0; 29-JUN-2007 15:33:54; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;27863
15; 5194.4; 29-JUN-2007 15:37:41; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27863
16; 5701.3; 29-JUN-2007 15:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27863
17; 6059.8; 29-JUN-2007 15:52:06; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;27863
18; 6504.3; 29-JUN-2007 15:59:31; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;27863
19; 6769.0; 29-JUN-2007 16:03:56; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27863
20; 7094.2; 29-JUN-2007 16:09:21; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27863
21; 7201.7; 29-JUN-2007 16:11:08; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27863
22; 7301.8; 29-JUN-2007 16:12:48; Dark ; 28.5; 25; 35Lam Sco ; 1.62; 28000;occ; 57; 0;27863

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1;	734.4;	29-JUN-2007	21:05:45;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;	occ;	81;	0;	27867
2;	1058.8;	29-JUN-2007	21:11:09;	Dark	;	36.0;	147;	Alp Ara	;	2.88;	26000;	occ;	72;	0;	27867
3;	1166.3;	29-JUN-2007	21:12:57;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;	occ;	83;	0;	27867
4;	1266.3;	29-JUN-2007	21:14:37;	Dark	;	41.0;	25;	35Lam Sco	;	1.62;	28000;	occ;	82;	0;	27867
5;	1350.5;	29-JUN-2007	21:16:01;	Dark	;	55.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	111;	0;	27867
6;	1639.5;	29-JUN-2007	21:20:50;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	73;	0;	27867
7;	1744.4;	29-JUN-2007	21:22:35;	Bright;		36.0;	98;	13Zet Oph	;	2.57;	30000;	occ;	72;	0;	27867
8;	1982.7;	29-JUN-2007	21:26:33;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;	occ;	76;	0;	27867
9;	2123.4;	29-JUN-2007	21:28:54;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	27867
10;	2280.9;	29-JUN-2007	21:31:31;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;	occ;	72;	0;	27867
11;	2446.9;	29-JUN-2007	21:34:17;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;	occ;	72;	0;	27867
12;	2812.9;	29-JUN-2007	21:40:23;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	27867
13;	2951.7;	29-JUN-2007	21:42:42;	Bright;		35.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	71;	0;	27867
14;	3188.5;	29-JUN-2007	21:46:39;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	72;	0;	27867
15;	3445.5;	29-JUN-2007	21:50:56;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	72;	0;	27867
16;	4063.6;	29-JUN-2007	22:01:14;	Bright;		39.0;	160;	23Gam Per	;	2.93;	4700;	occ;	78;	0;	27867
17;	4164.7;	29-JUN-2007	22:02:55;	Bright;		40.0;	175;	39Del Per	;	3.01;	19400;	occ;	80;	0;	27867
18;	4293.9;	29-JUN-2007	22:05:04;	Bright;		44.0;	79;	26Bet Per	;	2.31;	13100;	occ;	88;	0;	27867
19;	4968.5;	29-JUN-2007	22:16:19;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;	occ;	91;	0;	27867
20;	5195.2;	29-JUN-2007	22:20:06;	Dark	;	2.0;	165;	34Gam Eri	;	2.95;	3200;	occ;	4;	0;	27867

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2;	-332.5;	29-JUN-2007	22:28:34;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	27867
3;	25.6;	29-JUN-2007	22:34:32;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;	occ;	84;	0;	27868
4;	470.6;	29-JUN-2007	22:41:57;	Dark	;	43.0;	148;	Alp Tuc	;	2.88;	4100;	occ;	86;	0;	27868
5;	734.9;	29-JUN-2007	22:46:21;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;	occ;	83;	0;	27868
6;	1058.8;	29-JUN-2007	22:51:45;	Dark	;	38.0;	147;	Alp Ara	;	2.88;	26000;	occ;	76;	0;	27868
7;	1166.5;	29-JUN-2007	22:53:33;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;	occ;	84;	0;	27868
8;	1266.4;	29-JUN-2007	22:55:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;	occ;	81;	0;	27868
9;	1350.5;	29-JUN-2007	22:56:37;	Dark	;	47.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	95;	0;	27868
10;	1639.7;	29-JUN-2007	23:01:26;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	73;	0;	27868
11;	1744.6;	29-JUN-2007	23:03:11;	Bright;		35.0;	98;	13Zet Oph	;	2.57;	30000;	occ;	70;	0;	27868
12;	1982.6;	29-JUN-2007	23:07:09;	Bright;		37.0;	126;	60Bet Oph	;	2.77;	4250;	occ;	74;	0;	27868
13;	2123.3;	29-JUN-2007	23:09:30;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	27868
14;	2281.0;	29-JUN-2007	23:12:07;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;	occ;	75;	0;	27868
15;	2447.0;	29-JUN-2007	23:14:53;	Bright;		37.0;	133;	40Zet Her	;	2.81;	6000;	occ;	74;	0;	27868
16;	2812.6;	29-JUN-2007	23:20:59;	Bright;		35.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	70;	0;	27868
17;	2951.8;	29-JUN-2007	23:23:18;	Bright;		34.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	69;	0;	27868
18;	3188.6;	29-JUN-2007	23:27:15;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	67;	0;	27868
19;	3445.5;	29-JUN-2007	23:31:32;	Bright;		34.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	69;	0;	27868
20;	4063.6;	29-JUN-2007	23:41:50;	Bright;		36.0;	160;	23Gam Per	;	2.93;	4700;	occ;	72;	0;	27868
21;	4164.9;	29-JUN-2007	23:43:31;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;	occ;	66;	0;	27868
22;	4294.0;	29-JUN-2007	23:45:40;	Bright;		30.0;	79;	26Bet Per	;	2.31;	13100;	occ;	60;	0;	27868
23;	4968.9;	29-JUN-2007	23:56:55;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;	occ;	97;	0;	27868
24;	5195.4;	30-JUN-2007	00:00:42;	Dark	;	37.5;	165;	34Gam Eri	;	2.95;	3200;	occ;	75;	0;	27868

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2;	1349.7;	29-JUN-2007	16:14:12;	Dark	;	53.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	107;	0;	27864
3;	1639.1;	29-JUN-2007	16:19:02;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	74;	0;	27864
4;	1744.0;	29-JUN-2007	16:20:47;	Bright;		36.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	73;	0;	27864
5;	1982.9;	29-JUN-2007	16:24:46;	Bright;		37.5;	126;	60Bet Oph	;	2.77;	4250;	occ;	75;	0;	27864
6;	2123.5;	29-JUN-2007	16:27:06;	Bright;		38.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	77;	0;	27864
7;	2280.6;	29-JUN-2007	16:29:43;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;	occ;	72;	0;	27864
8;	2446.8;	29-JUN-2007	16:32:29;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;	occ;	72;	0;	27864
9;	2813.5;	29-JUN-2007	16:38:36;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	27864
10;	2951.8;	29-JUN-2007	16:40:54;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	72;	0;	27864
11;	3188.2;	29-JUN-2007	16:44:51;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	67;	0;	27864
12;	3445.7;	29-JUN-2007	16:49:08;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	71;	0;	27864
13;	4064.1;	29-JUN-2007	16:59:27;	Bright;		50.0;	160;	23Gam Per	;	2.93;	4700;	occ;	100;	0;	27864
14;	4164.7;	29-JUN-2007	17:01:07;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;	occ;	66;	0;	27864
15;	4293.7;	29-JUN-2007	17:03:16;	Bright;		45.0;	79;	26Bet Per	;	2.31;	13100;	occ;	90;	0;	27864
16;	4967.5;	29-JUN-2007	17:14:30;	Dark	;	51.5;	94;	92Alp Cet	;	2.53;	3100;	occ;	103;	0;	27864
17;	5194.7;	29-JUN-2007	17:18:17;	Dark	;	40.0;	165;	34Gam Eri	;	2.95;	3200;	occ;	80;	0;	27864
18;	5701.9;	29-JUN-2007	17:26:44;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	27864
19;	6060.3;	29-JUN-2007	17:32:43;	Dark	;	41.5;	9;	Alp Eri	;	0.45;	24000;	occ;	83;	0;	27864
20;	6505.0;	29-JUN-2007	17:40:08;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;	occ;	81;	0;	27864
21;	6769.4;	29-JUN-2007	17:44:32;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;	occ;	79;	0;	27864

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 3; 1265.9; 29-JUN-2007 17:53:25; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;27865
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 6; 1744.2; 29-JUN-2007 18:01:23; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;27865
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 9; 2280.8; 29-JUN-2007 18:10:19; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27865
 10; 2446.8; 29-JUN-2007 18:13:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27865
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 12; 2951.7; 29-JUN-2007 18:21:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27865
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