

GOMOS Daily Report 28-OCT-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	30OCT2007 05:52:39
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (28OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29OCT2007 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)

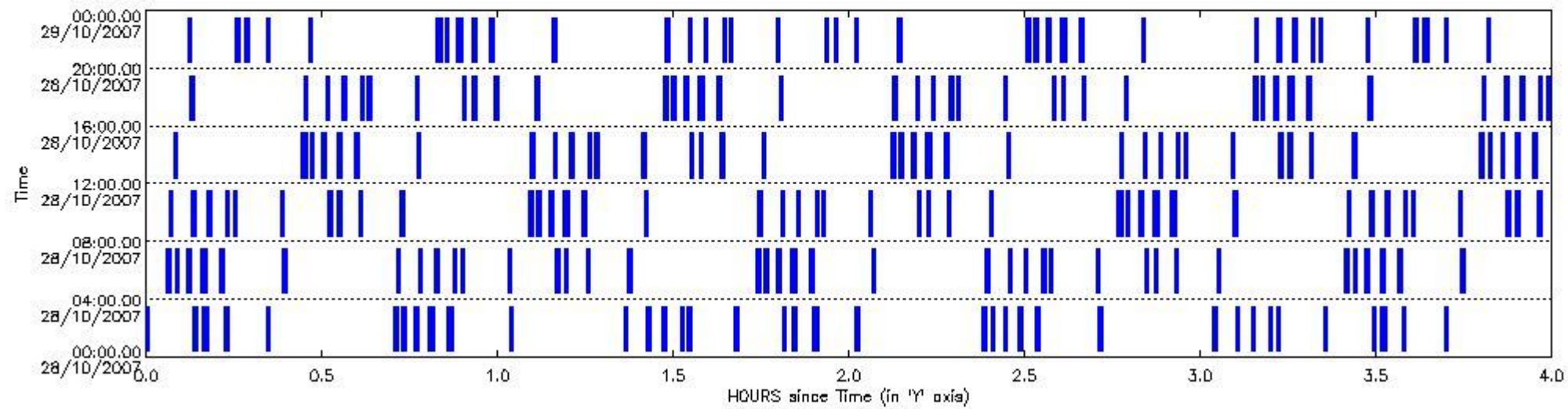
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

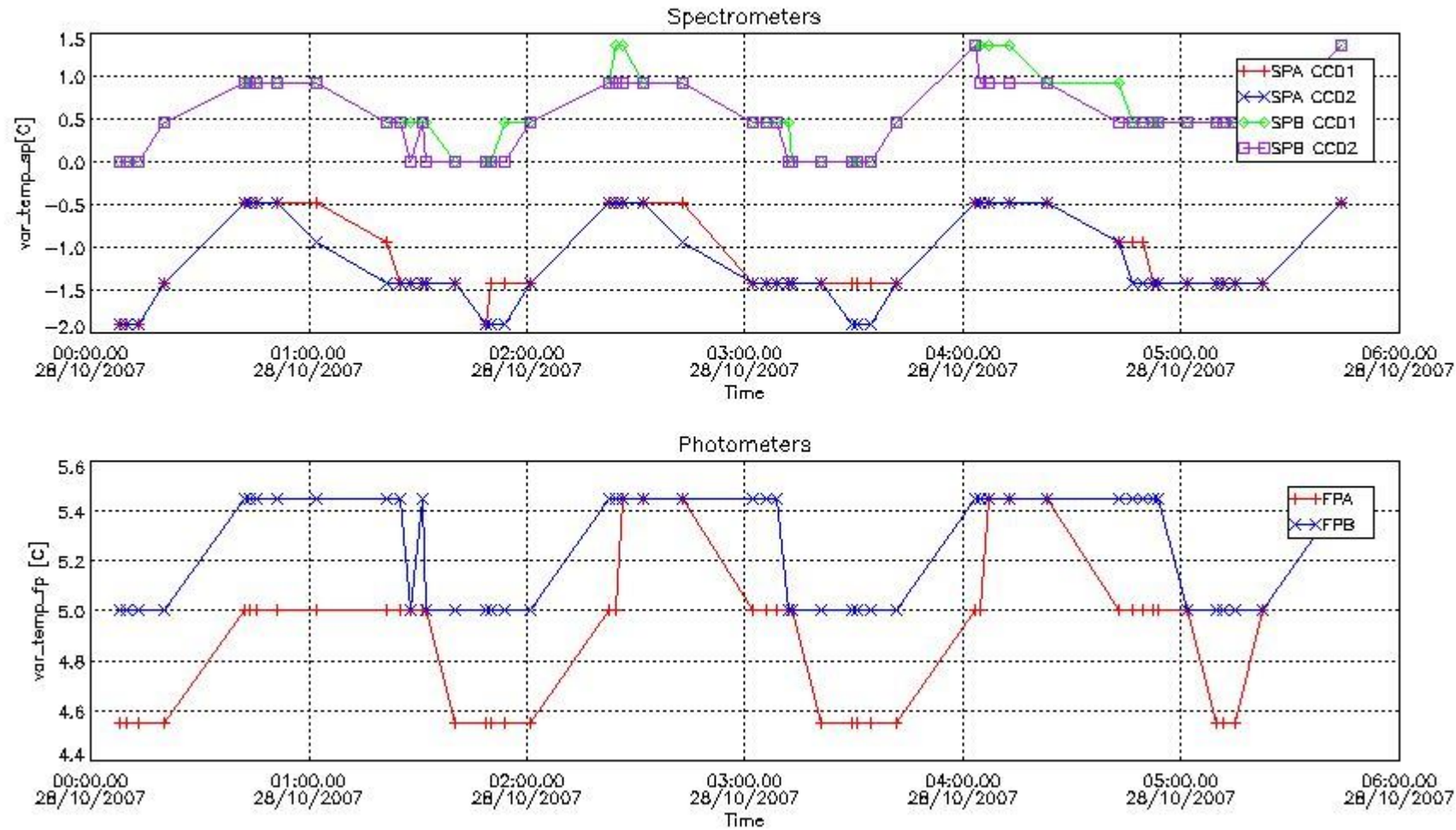
No missing products.

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_1PNPDE20071028_000803_000000382062_00474_29586_2487.N1	28-OCT-2007 00:08:03	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29586	No
2	GOM_TRA_1PNPDE20071028_000938_000000552062_00474_29586_2488.N1	28-OCT-2007 00:09:38	Bright	55.000	82	48Bet UMa	2.3650	10600.	110	29586	No
3	GOM_TRA_1PNPDE20071028_001314_000000472062_00474_29586_2489.N1	28-OCT-2007 00:13:14	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	29586	No
4	GOM_TRA_1PNPDE20071028_002024_000000472062_00474_29586_2490.N1	28-OCT-2007 00:20:24	Bright	46.500	96	68Del Leo	2.5600	9300.0	93	29586	No
5	GOM_TRA_1PNPDE20071028_004210_000000542062_00474_29586_2606.N1	28-OCT-2007 00:42:10	Dark	54.000	65	Lam Vel	2.2040	4400.0	108	29586	No
6	GOM_TRA_1PNPDE20071028_004339_000000402062_00475_29587_2607.N1	28-OCT-2007 00:43:39	Dark	40.000	91	Kap Vel	2.4900	26000.	80	29587	No
7	GOM_TRA_1PNPDE20071028_004542_000000442062_00475_29587_2608.N1	28-OCT-2007 00:45:42	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	29587	No
8	GOM_TRA_1PNPDE20071028_005116_000000612062_00475_29587_2609.N1	28-OCT-2007 00:51:16	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	29587	No
9	GOM_TRA_1PNPDE20071028_010201_000000412062_00475_29587_2610.N1	28-OCT-2007 01:02:01	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29587	No
10	GOM_TRA_1PNPDE20071028_012128_000000402062_00475_29587_2611.N1	28-OCT-2007 01:21:28	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	29587	No
11	GOM_TRA_1PNPDE20071028_012521_000000412062_00475_29587_2612.N1	28-OCT-2007 01:25:21	Bright	40.500	53	43Bet And	2.0480	3300.0	81	29587	No
12	GOM_TRA_1PNPDE20071028_012804_000000392062_00475_29587_2613.N1	28-OCT-2007 01:28:04	Bright	39.000	73	57Gam1And	2.2600	13100.	78	29587	No

13	GOM_TRA_1PNPDE20071028_013110_000000372062_00475_29587_2614.N1	28-OCT-2007 01:31:10	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29587	No
14	GOM_TRA_1PNPDE20071028_013225_000000372062_00475_29587_2615.N1	28-OCT-2007 01:32:25	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29587	No
15	GOM_TRA_1PNPDE20071028_014026_000000372062_00475_29587_2616.N1	28-OCT-2007 01:40:26	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29587	No
16	GOM_TRA_1PNPDE20071028_014839_000000392062_00475_29587_2617.N1	28-OCT-2007 01:48:39	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29587	No
17	GOM_TRA_1PNPDE20071028_015014_000000422062_00475_29587_2618.N1	28-OCT-2007 01:50:14	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	29587	No
18	GOM_TRA_1PNPDE20071028_015350_000000522062_00475_29587_2619.N1	28-OCT-2007 01:53:50	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29587	No
19	GOM_TRA_1PNPDE20071028_020100_000000452062_00475_29587_2620.N1	28-OCT-2007 02:01:00	Bright	44.500	96	68Del Leo	2.5600	9300.0	89	29587	No
20	GOM_TRA_1PNPDE20071028_022246_000000482062_00475_29587_2725.N1	28-OCT-2007 02:22:46	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	29587	No
21	GOM_TRA_1PNPDE20071028_022416_000000392062_00476_29588_2726.N1	28-OCT-2007 02:24:16	Dark	38.500	91	Kap Vel	2.4900	26000.	77	29588	No
22	GOM_TRA_1PNPDE20071028_022618_000000452062_00476_29588_2727.N1	28-OCT-2007 02:26:18	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	29588	No
23	GOM_TRA_1PNPDE20071028_023153_000000482062_00476_29588_2728.N1	28-OCT-2007 02:31:53	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29588	No
24	GOM_TRA_1PNPDE20071028_024237_000000412062_00476_29588_2729.N1	28-OCT-2007 02:42:37	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29588	No
25	GOM_TRA_1PNPDE20071028_030204_000000412062_00476_29588_2730.N1	28-OCT-2007 03:02:04	Bright	41.000	105	6Bet Ari	2.6450	8900.0	82	29588	No
26	GOM_TRA_1PNPDE20071028_030557_000000392062_00476_29588_2731.N1	28-OCT-2007 03:05:57	Bright	39.000	53	43Bet And	2.0480	3300.0	78	29588	No
27	GOM_TRA_1PNPDE20071028_030839_000000422062_00476_29588_2732.N1	28-OCT-2007 03:08:39	Bright	42.000	73	57Gam1And	2.2600	13100.	84	29588	No
28	GOM_TRA_1PNPDE20071028_031146_000000352062_00476_29588_2733.N1	28-OCT-2007 03:11:46	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	29588	No
29	GOM_TRA_1PNPDE20071028_031300_000000372062_00476_29588_2734.N1	28-OCT-2007 03:13:00	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29588	No
30	GOM_TRA_1PNPDE20071028_032102_000000362062_00476_29588_2735.N1	28-OCT-2007 03:21:02	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29588	No
31	GOM_TRA_1PNPDE20071028_032914_000000402062_00476_29588_2892.N1	28-OCT-2007 03:29:14	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29588	No
32	GOM_TRA_1PNPDE20071028_033050_000000552062_00476_29588_2893.N1	28-OCT-2007 03:30:50	Bright	55.000	82	48Bet UMa	2.3650	10600.	110	29588	No
33	GOM_TRA_1PNPDE20071028_033426_000000362062_00476_29588_2894.N1	28-OCT-2007 03:34:26	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	29588	No
34	GOM_TRA_1PNPDE20071028_034136_000000372062_00476_29588_2895.N1	28-OCT-2007 03:41:36	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	29588	No
35	GOM_TRA_1PNPDE20071028_040323_000000442062_00476_29588_2896.N1	28-OCT-2007 04:03:23	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29588	No
36	GOM_TRA_1PNPDE20071028_040453_000000392062_00477_29589_2897.N1	28-OCT-2007 04:04:53	Dark	39.000	91	Kap Vel	2.4900	26000.	78	29589	No
37	GOM_TRA_1PNPDE20071028_040655_000000472062_00477_29589_2898.N1	28-OCT-2007 04:06:55	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	29589	No
38	GOM_TRA_1PNPDE20071028_041230_000000482062_00477_29589_2899.N1	28-OCT-2007 04:12:30	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29589	No
39	GOM_TRA_1PNPDE20071028_042313_000000432062_00477_29589_2900.N1	28-OCT-2007 04:23:13	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	29589	No
40	GOM_TRA_1PNPDE20071028_044240_000000382062_00477_29589_2901.N1	28-OCT-2007 04:42:40	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	29589	No
41	GOM_TRA_1PNPDE20071028_044633_000000382062_00477_29589_2902.N1	28-OCT-2007 04:46:33	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29589	No
42	GOM_TRA_1PNPDE20071028_044915_000000422062_00477_29589_2903.N1	28-OCT-2007 04:49:15	Bright	42.000	73	57Gam1And	2.2600	13100.	84	29589	No
43	GOM_TRA_1PNPDE20071028_045222_000000372062_00477_29589_2904.N1	28-OCT-2007 04:52:22	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29589	No
44	GOM_TRA_1PNPDE20071028_045336_000000362062_00477_29589_2905.N1	28-OCT-2007 04:53:36	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29589	No
45	GOM_TRA_1PNPDE20071028_050138_000000342062_00477_29589_2906.N1	28-OCT-2007 05:01:38	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29589	No
46	GOM_TRA_1PNPDE20071028_050950_000000392062_00477_29589_3032.N1	28-OCT-2007 05:09:50	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	29589	No
47	GOM_TRA_1PNPDE20071028_051127_000000372062_00477_29589_3033.N1	28-OCT-2007 05:11:27	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29589	No
48	GOM_TRA_1PNPDE20071028_051502_000000362062_00477_29589_3034.N1	28-OCT-2007 05:15:02	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	29589	No
49	GOM_TRA_1PNPDE20071028_052212_000000362062_00477_29589_3035.N1	28-OCT-2007 05:22:12	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	29589	No
50	GOM_TRA_1PNPDE20071028_054400_000000552062_00477_29589_3036.N1	28-OCT-2007 05:44:00	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	29589	No

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



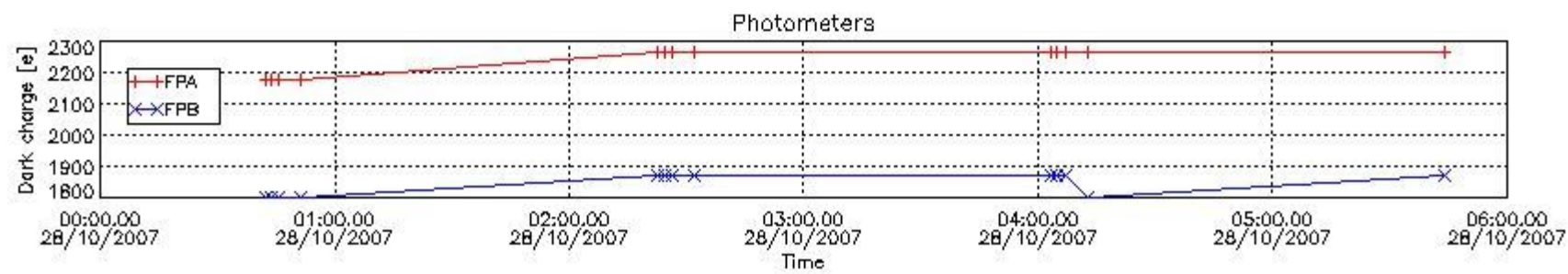
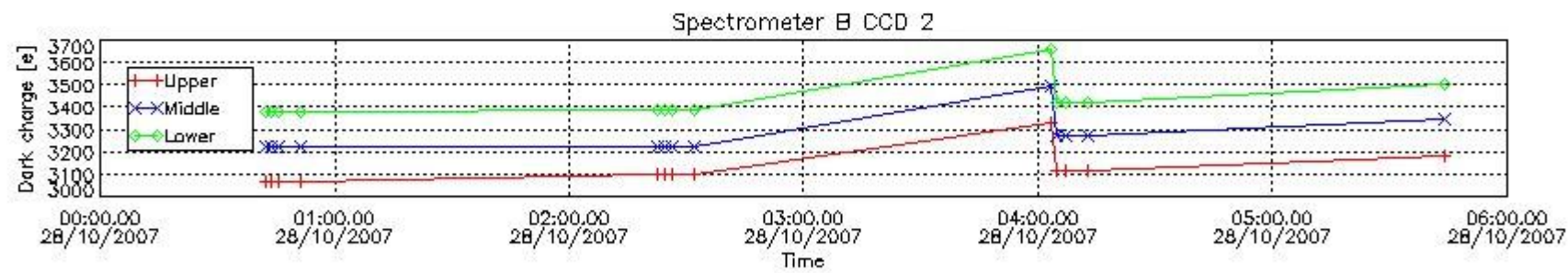
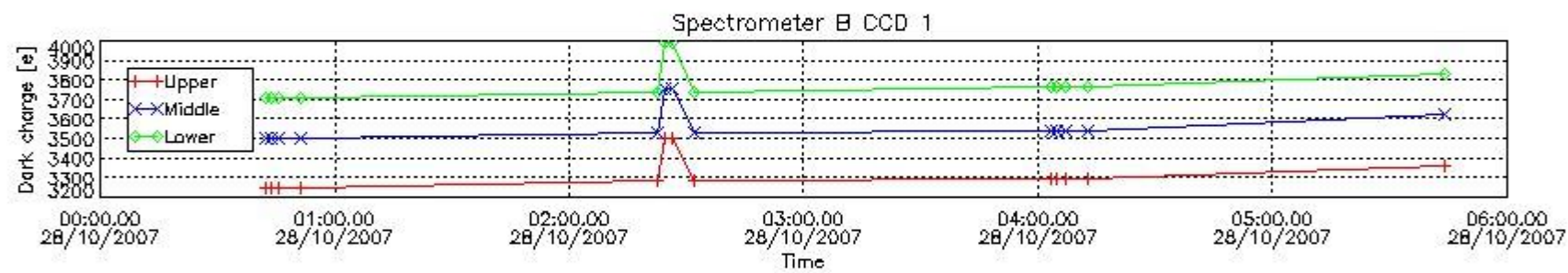
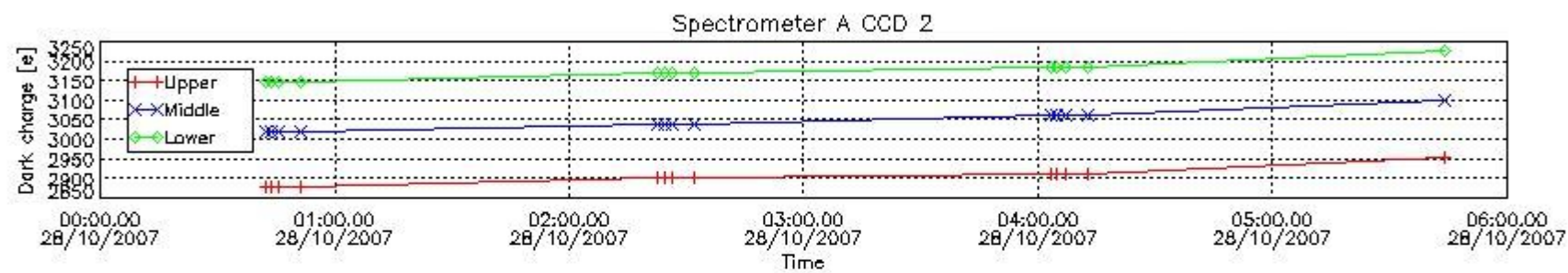
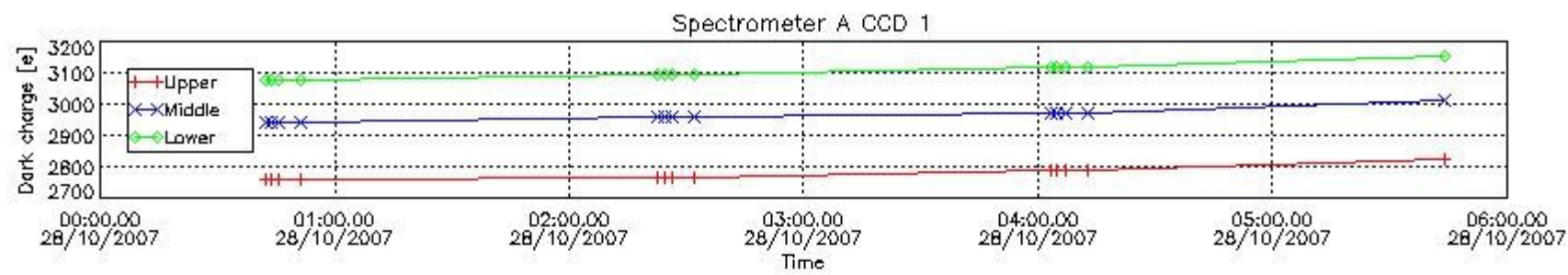
4. Overview of dark signal processing per product

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



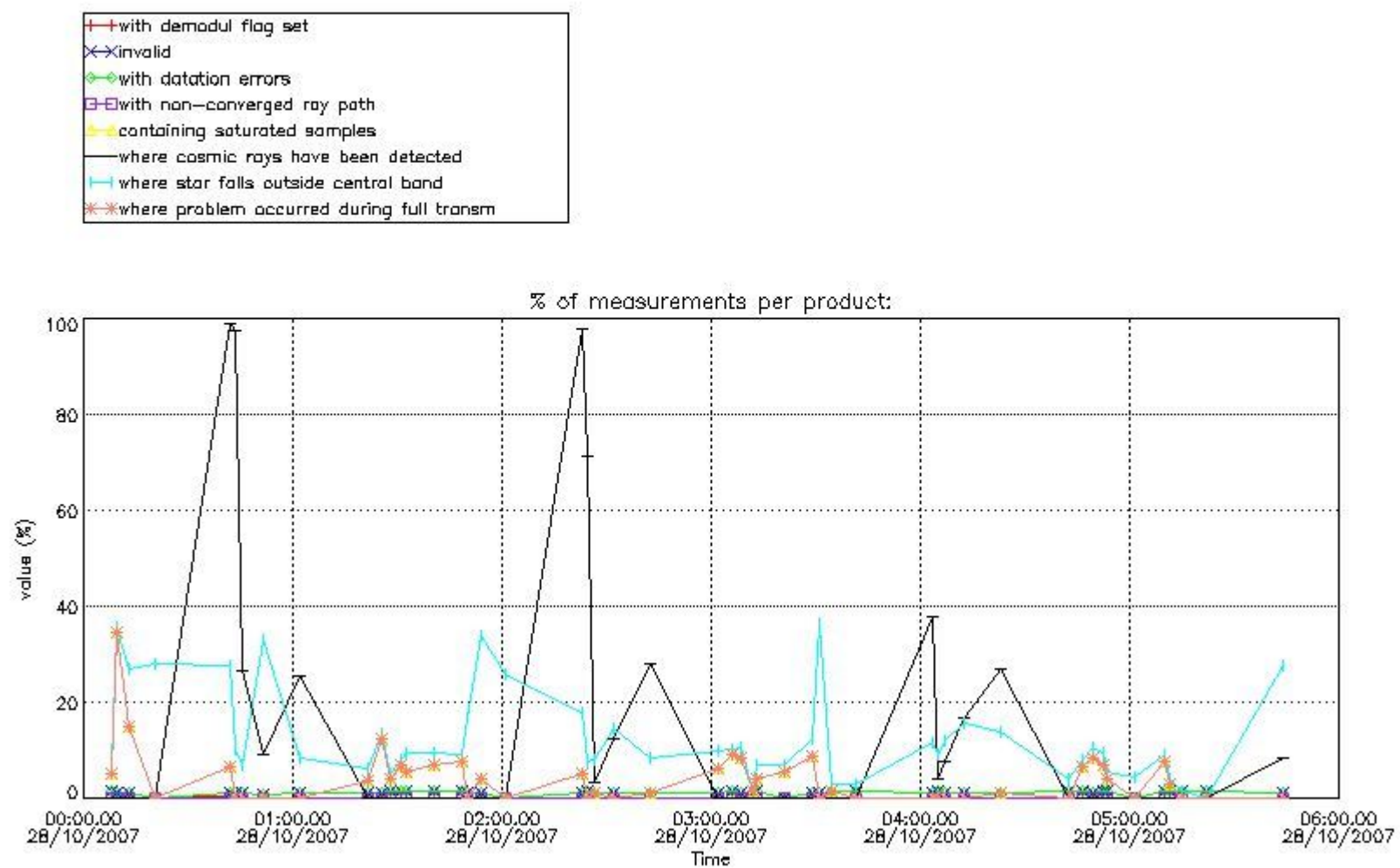
5. Demodulation flag and quality information monitoring

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.

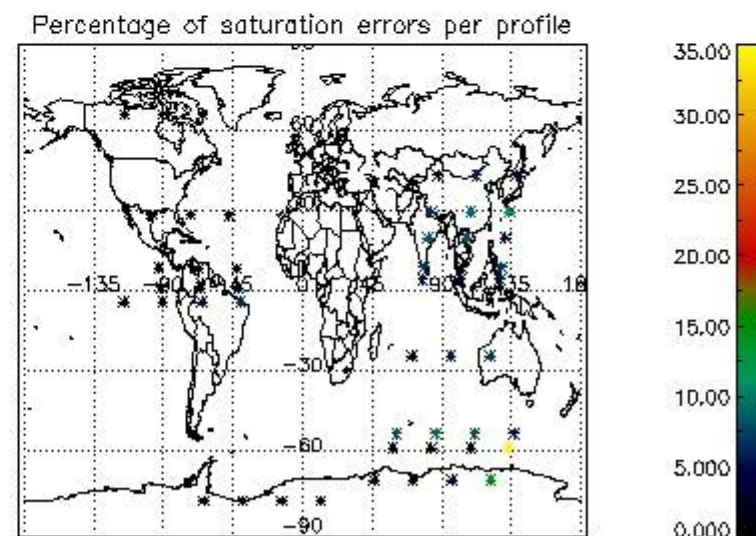
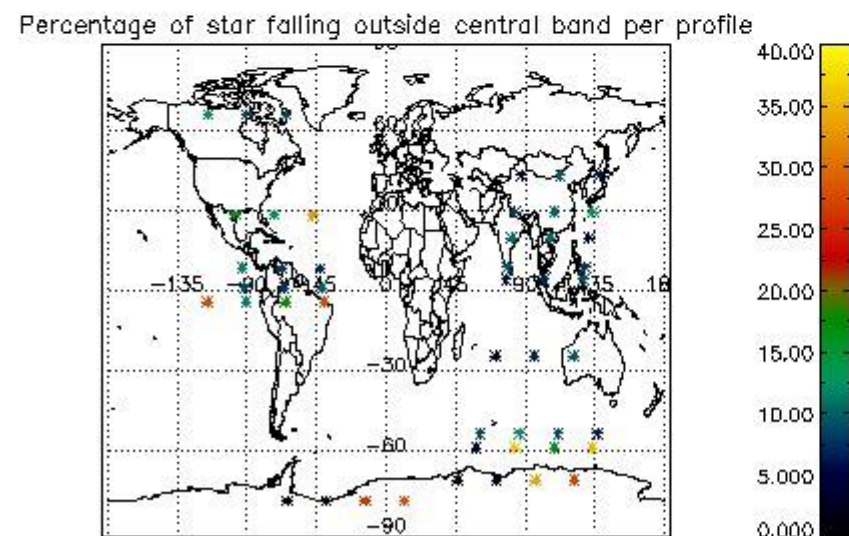
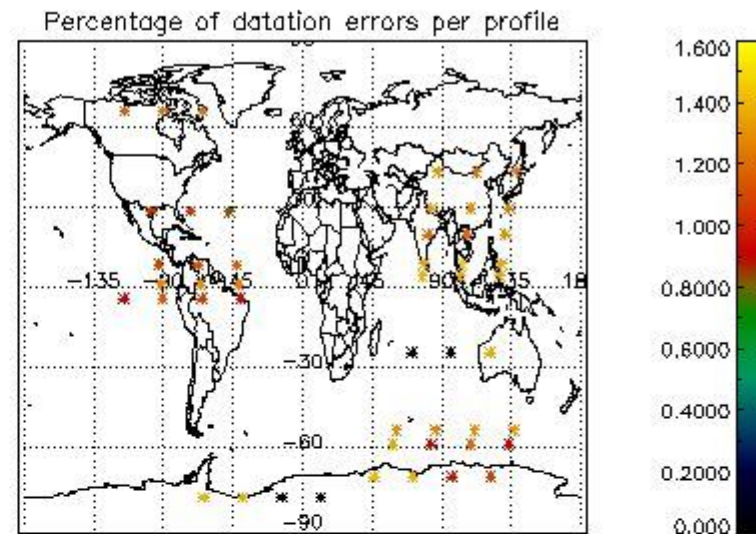
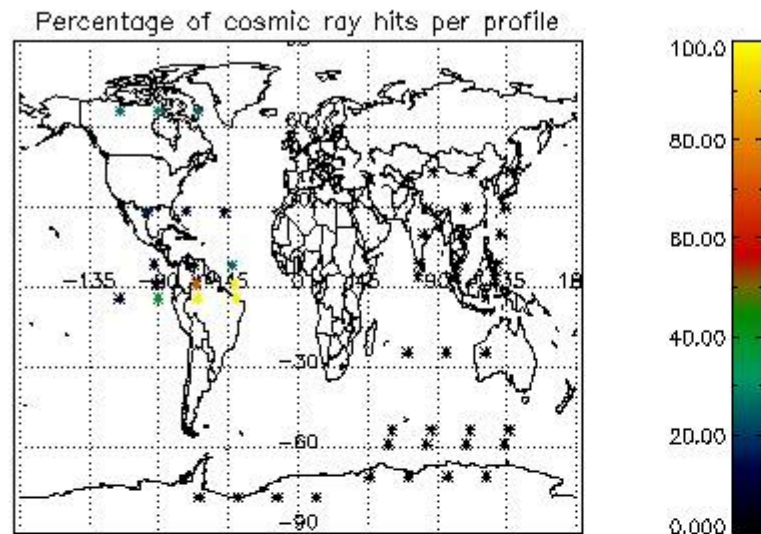
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



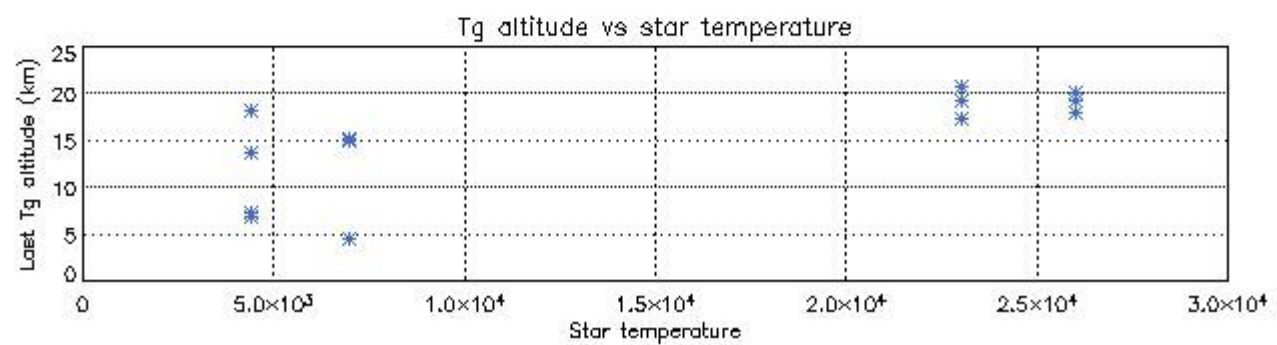
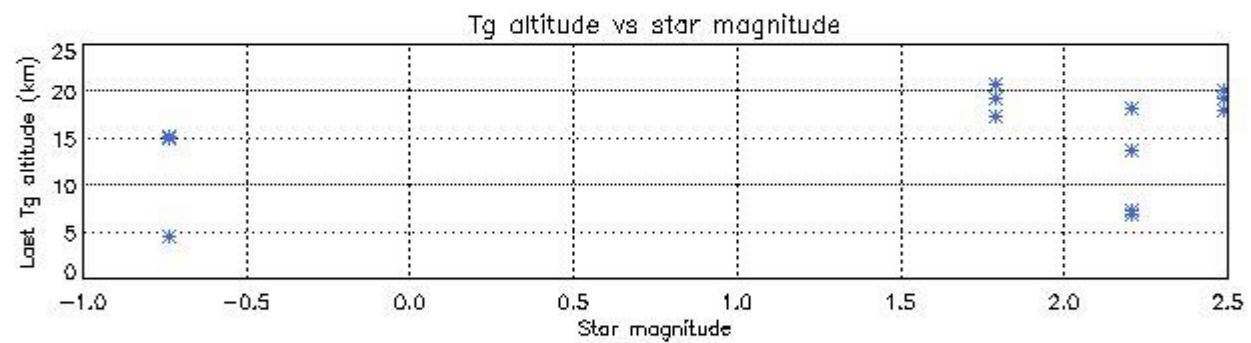
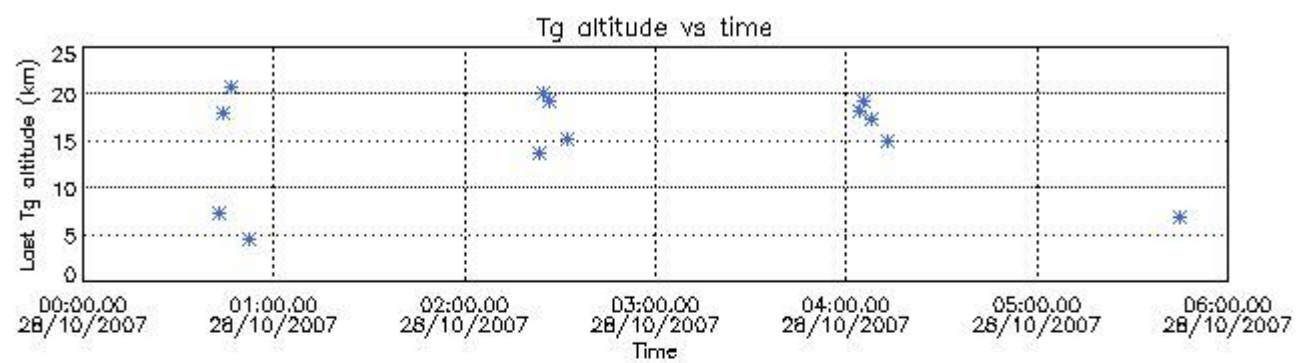
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.006	18.220	NaN
St. deviation:	5.4618	5.7357	NaN
Maximum:	20.729	25.216	NaN
Minimum:	4.4354	3.7090	NaN
Number of data:	13.000	34.000	NaN

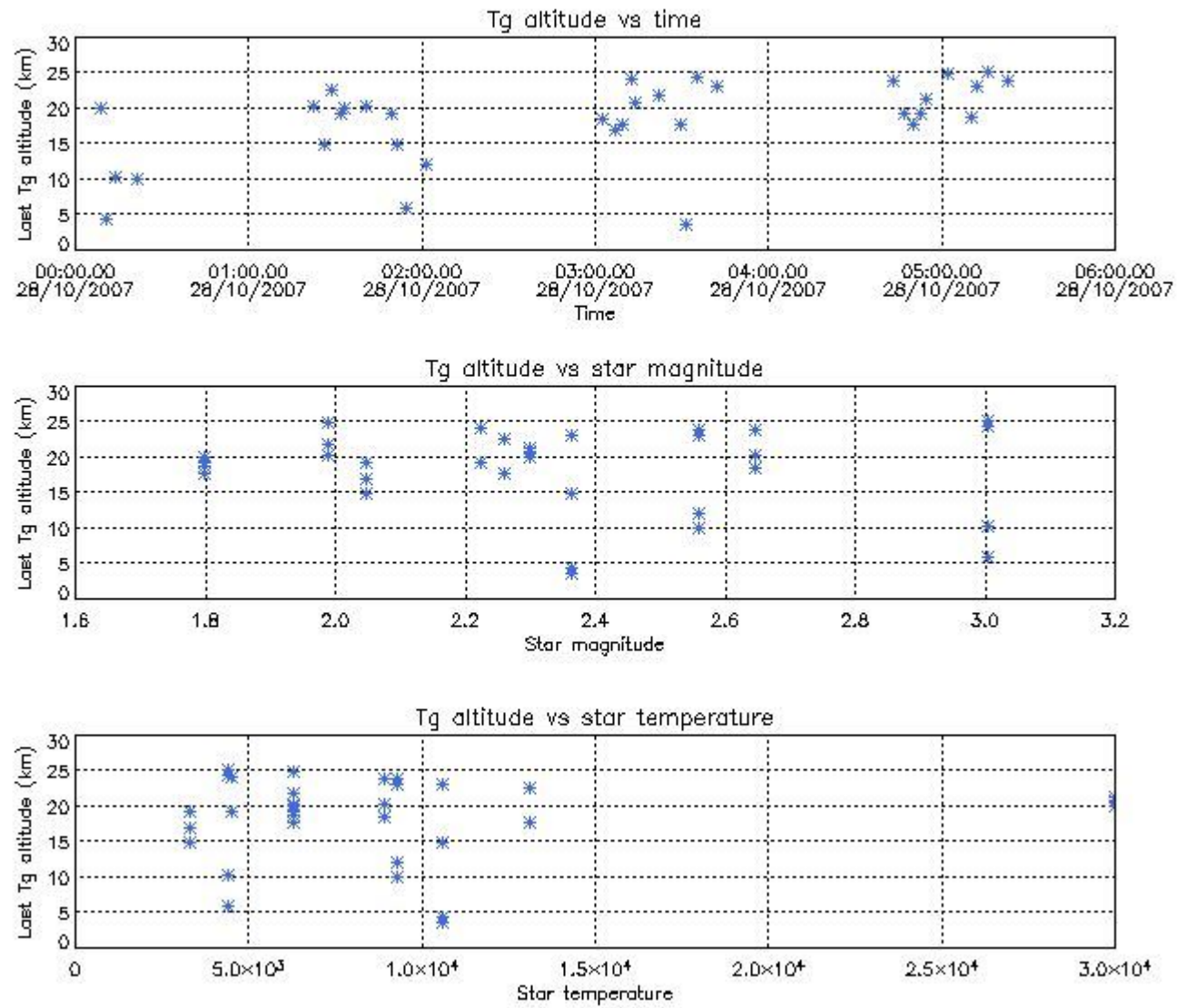
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

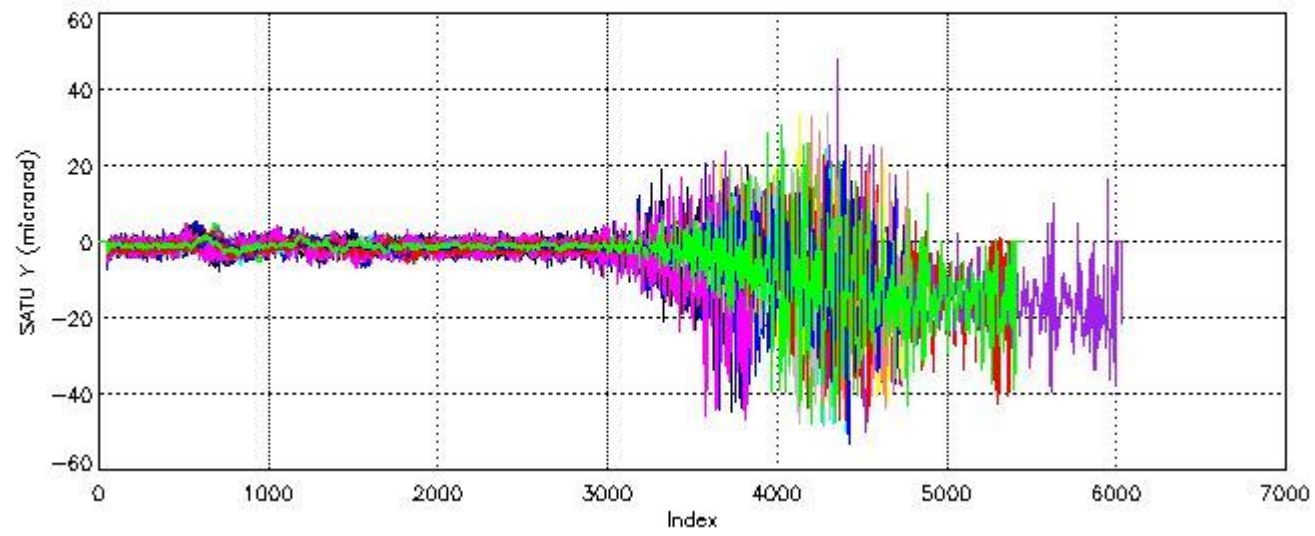
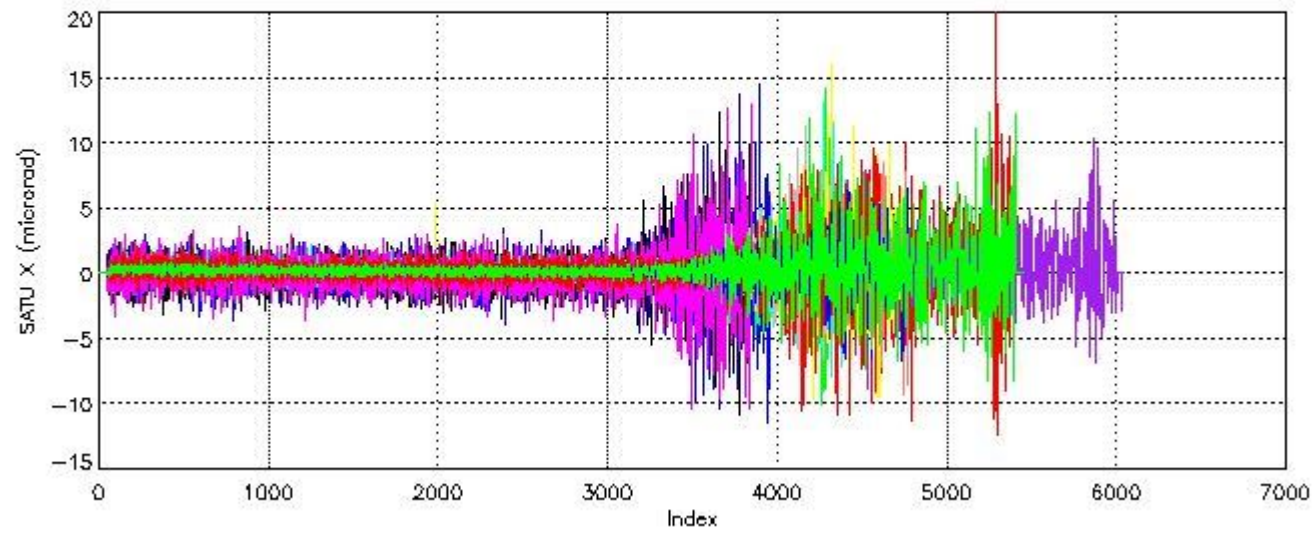


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19558	-1.3242	0.10165	-1.2481
St. deviation:	0.44923	1.3612	0.68557	1.5815
Maximum:	3.5000	5.2000	4.9000	6.3000
Minimum:	-3.6000	-7.9000	-4.1000	-8.6000

Number of data:	13200.	13200.	29150.	29150.
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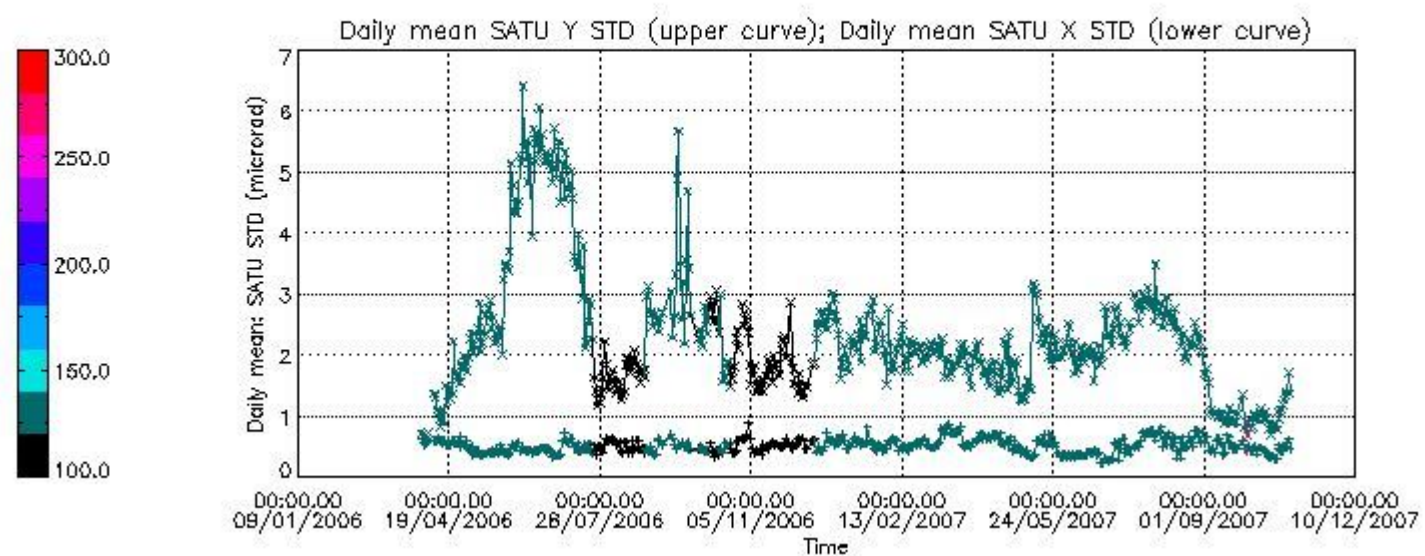
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

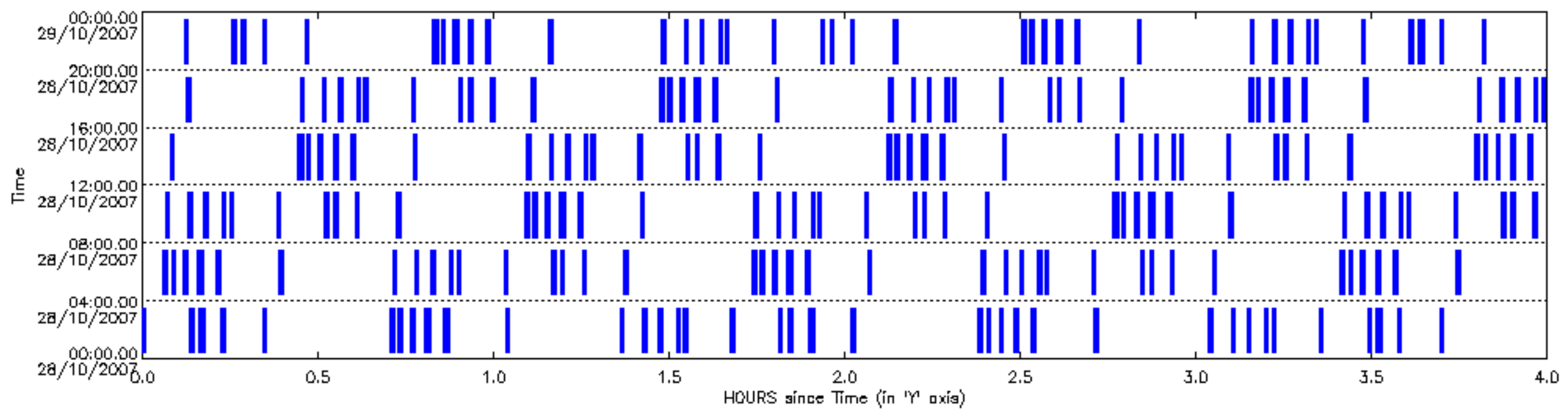
Lower curve: STD of SATU X axis

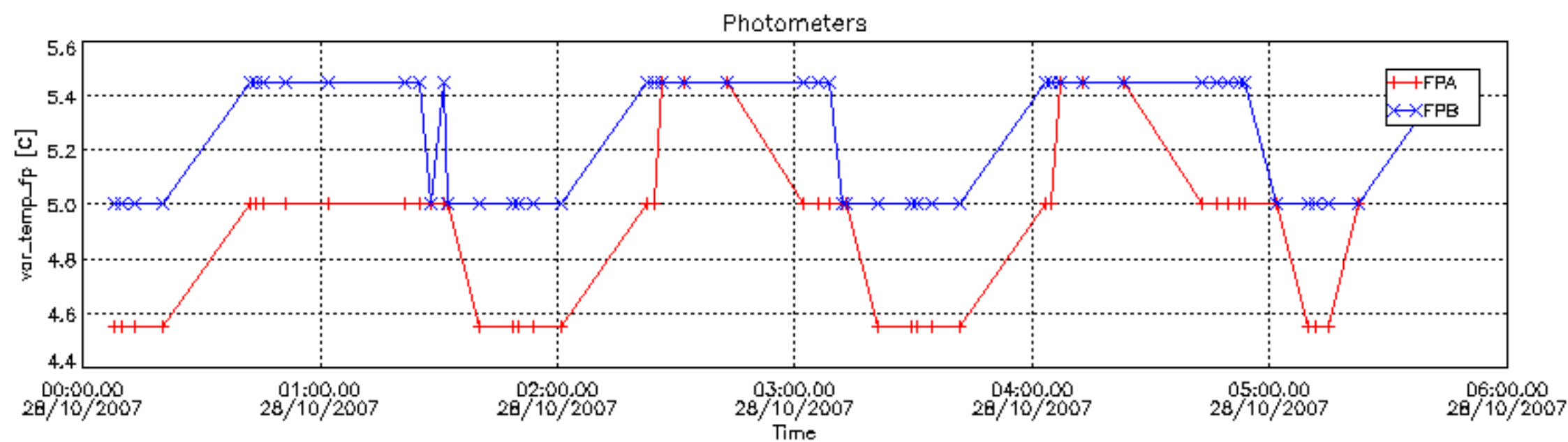
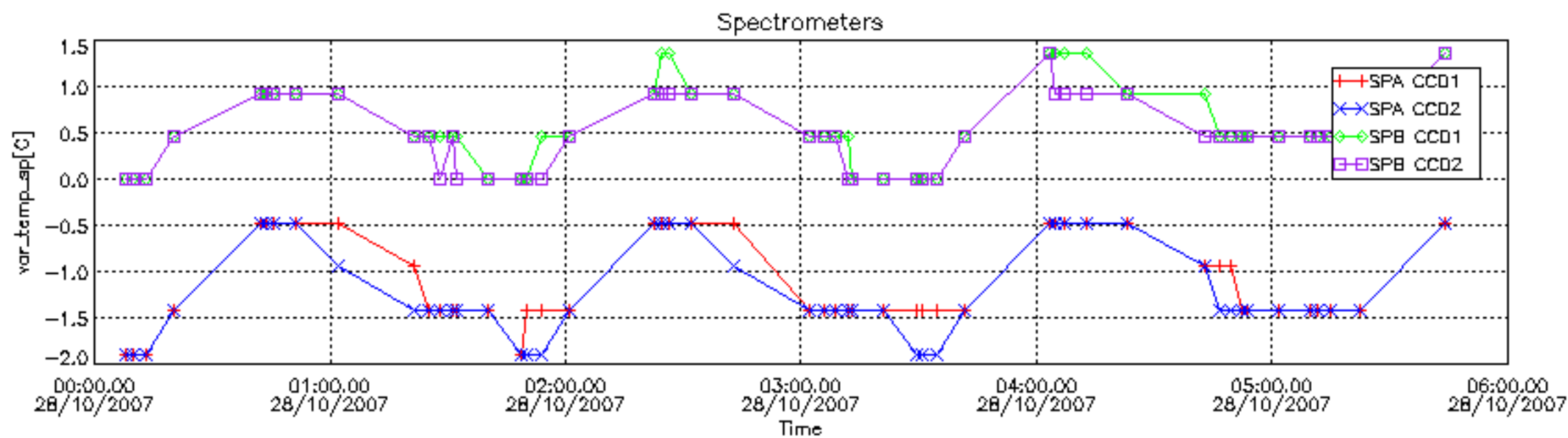


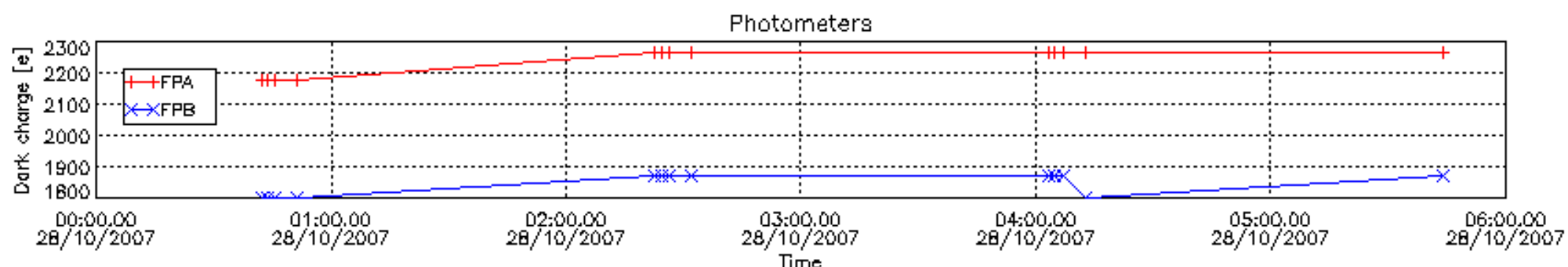
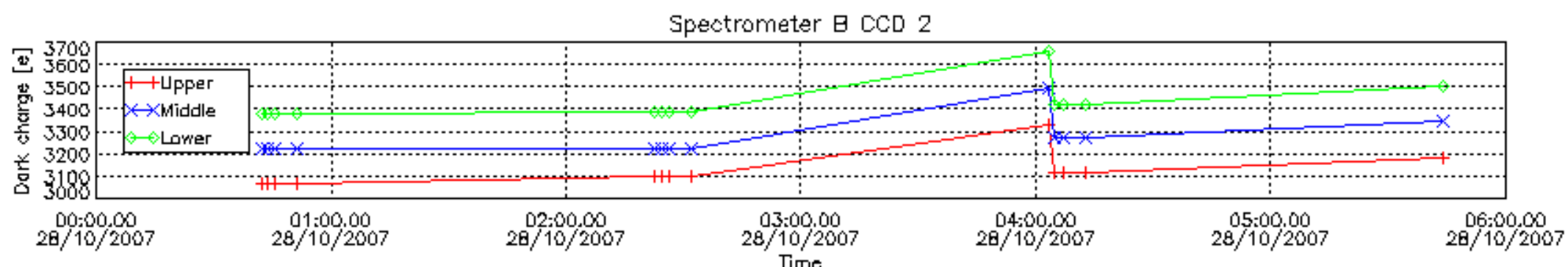
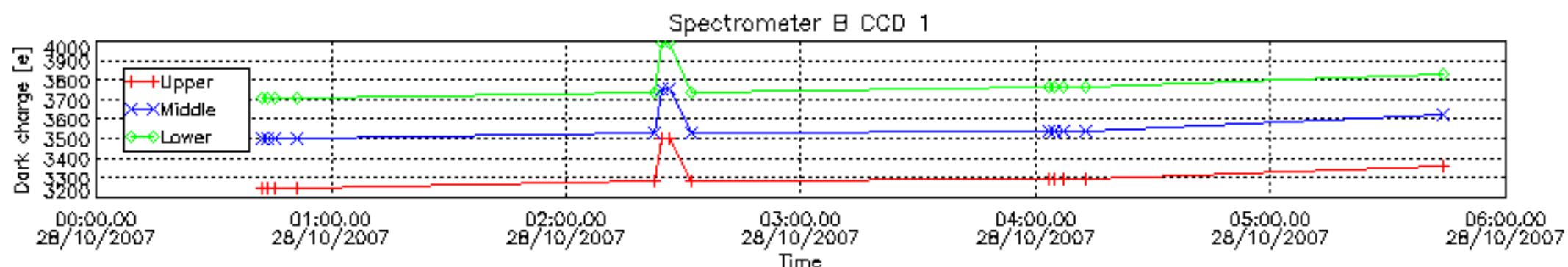
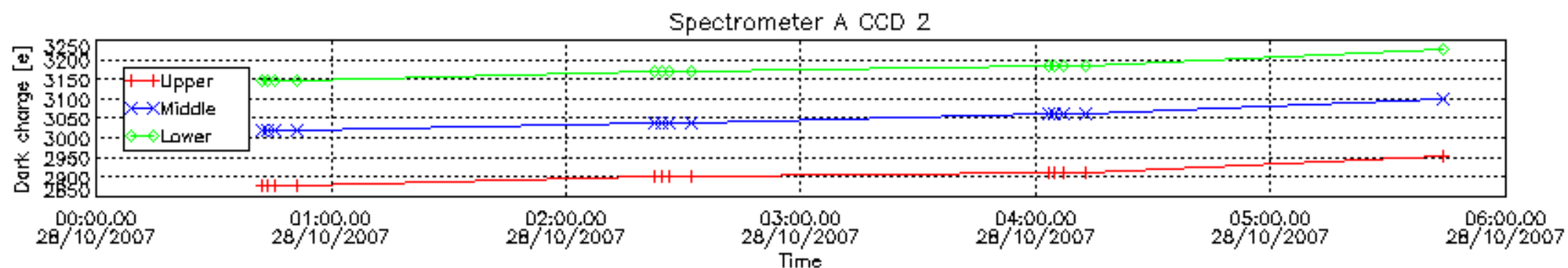
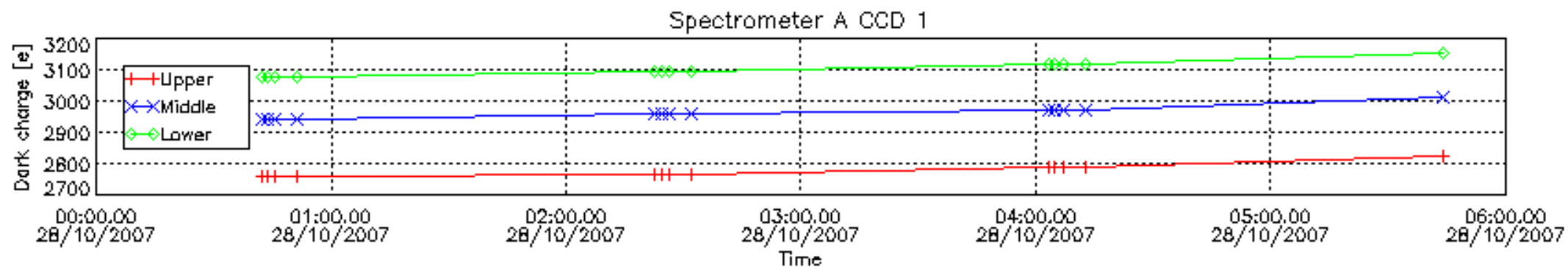
8. Auxiliary Data Files used for the production reported in section 2.4

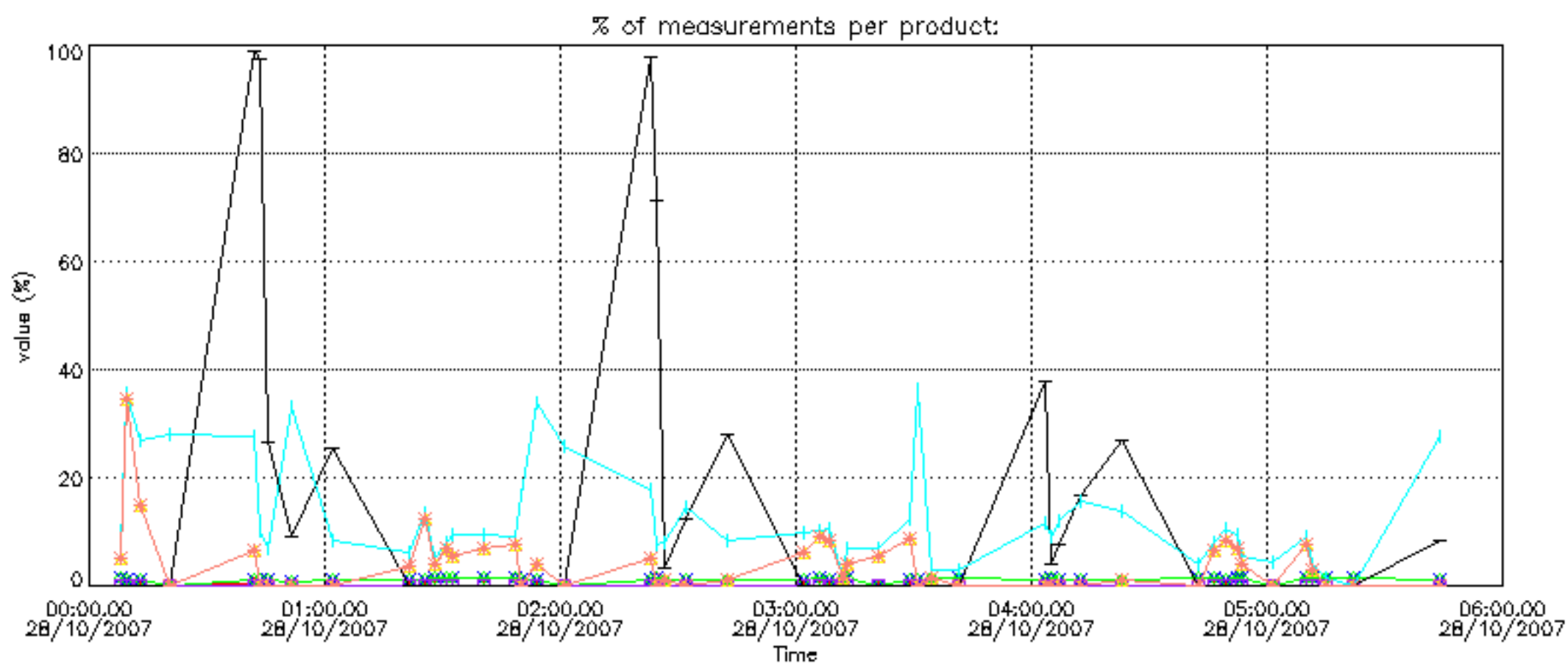
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-OCT-2007 00:08:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	28-OCT-2007 00:08:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-OCT-2007 00:08:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-OCT-2007 00:08:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-OCT-2007 00:08:03
ECMWF_FILE	AUX_ECF_AXNECM20071027_063115_20071027_210000_20071028_090000	1	28-OCT-2007 00:08:03
ECMWF_FILE	AUX_ECF_AXNECM20071027_183116_20071028_030000_20071028_150000	31	28-OCT-2007 03:29:14
OPTIONAL_ECMWF_FILE	MISSING	1	28-OCT-2007 00:08:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071027_210102_000060572062_00472_29584_4443.N1	1	28-OCT-2007 00:08:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071027_224718_000057382062_00473_29585_4444.N1	5	28-OCT-2007 00:42:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071028_002815_000054192062_00474_29586_4445.N1	20	28-OCT-2007 02:22:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071028_020353_000041442062_00475_29587_4446.N1	31	28-OCT-2007 03:29:14
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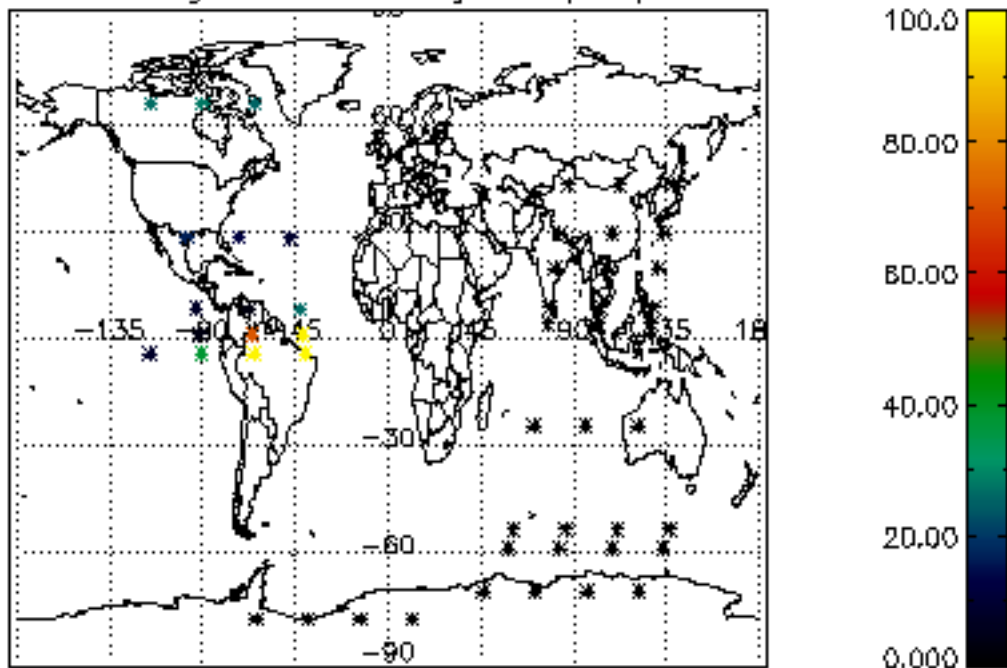




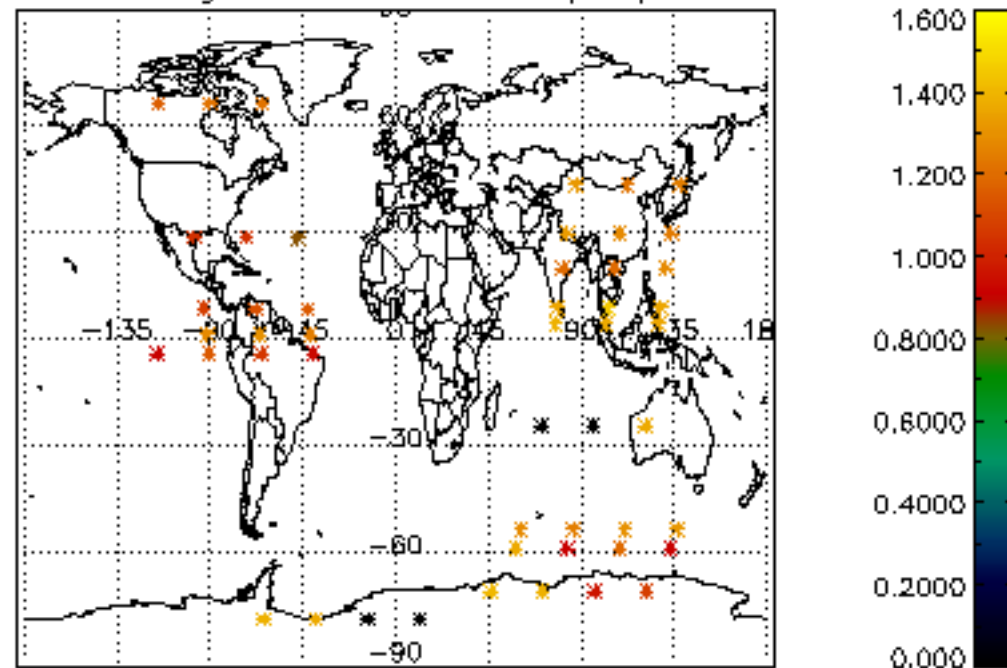




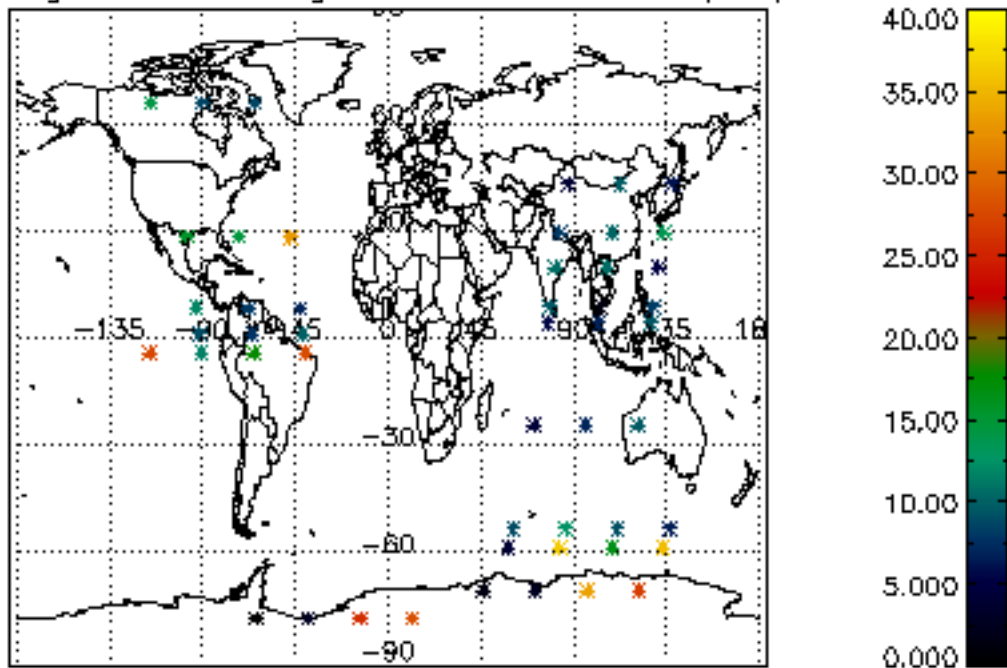
Percentage of cosmic ray hits per profile



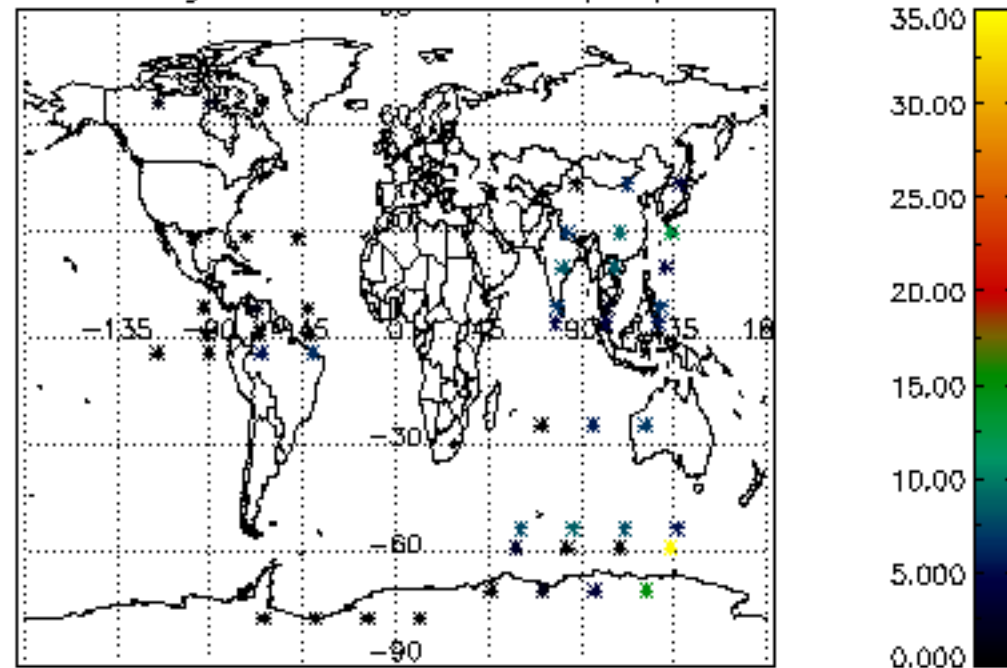
Percentage of datation errors per profile



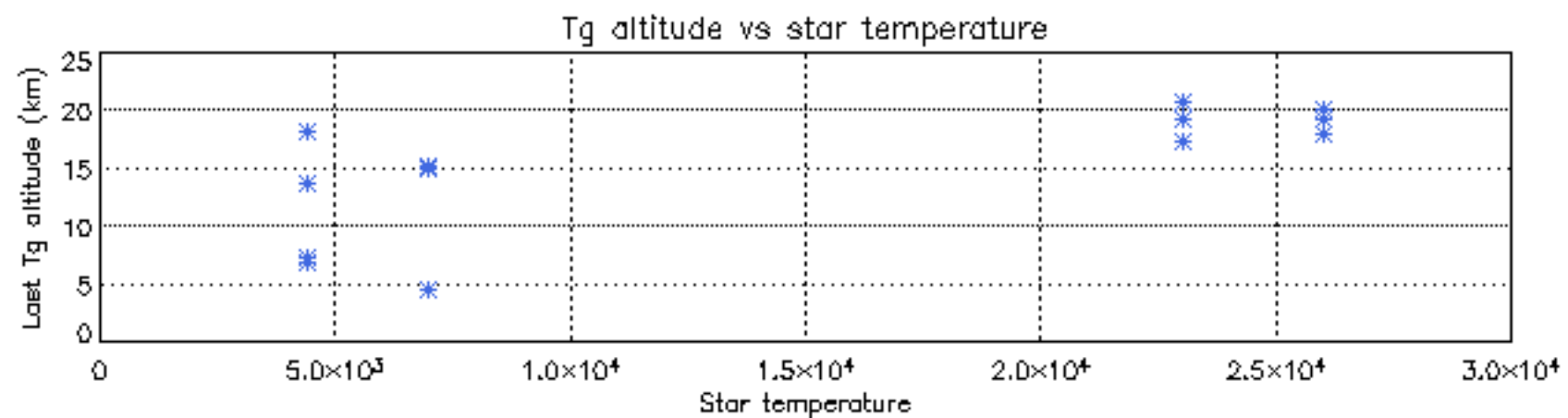
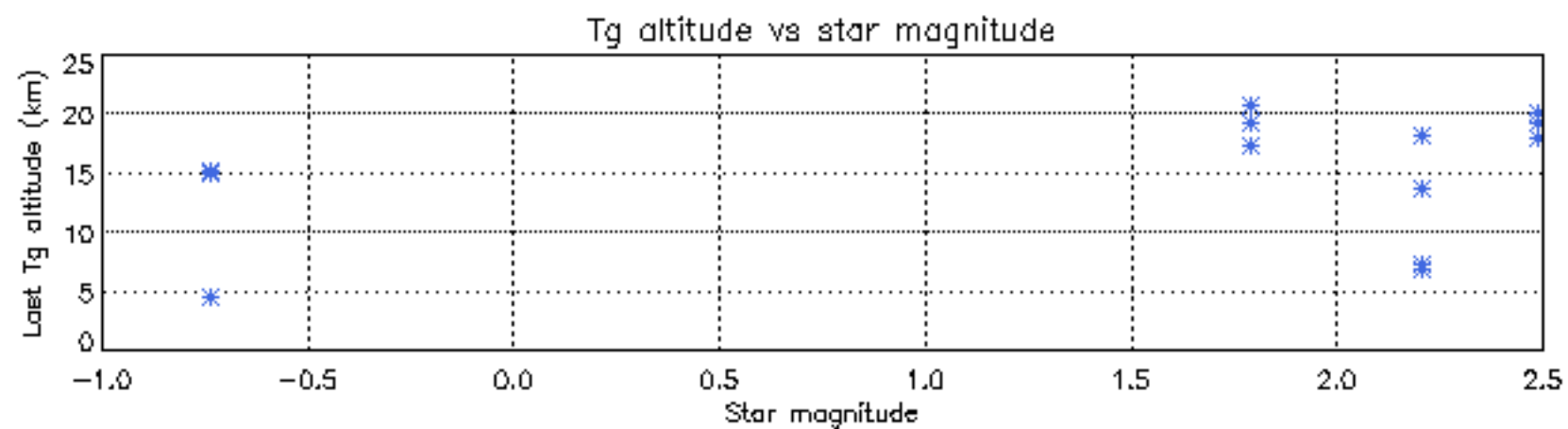
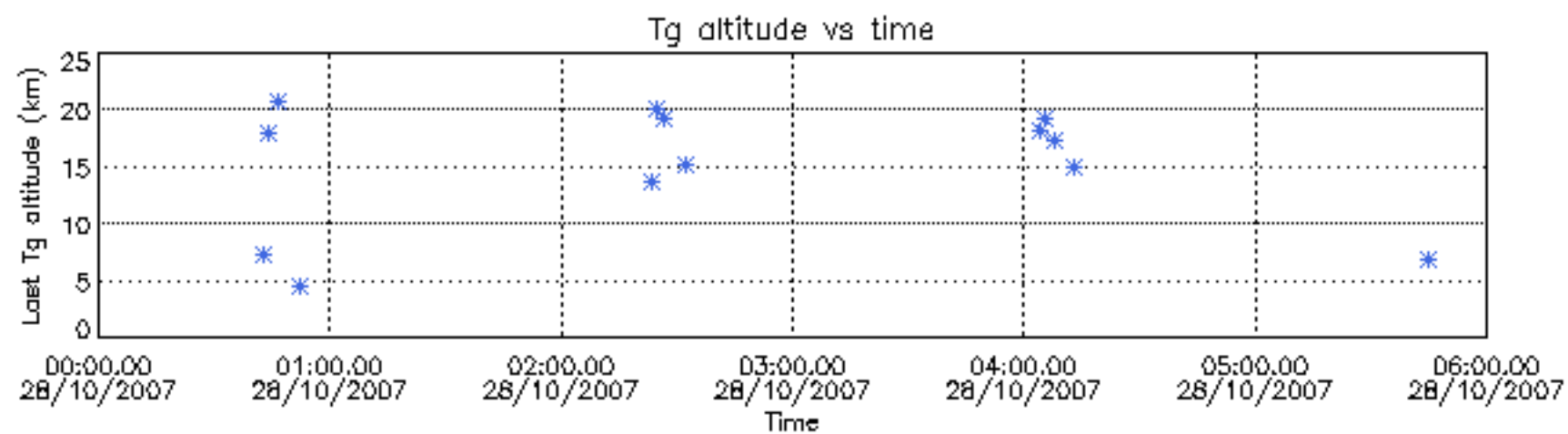
Percentage of star falling outside central band per profile



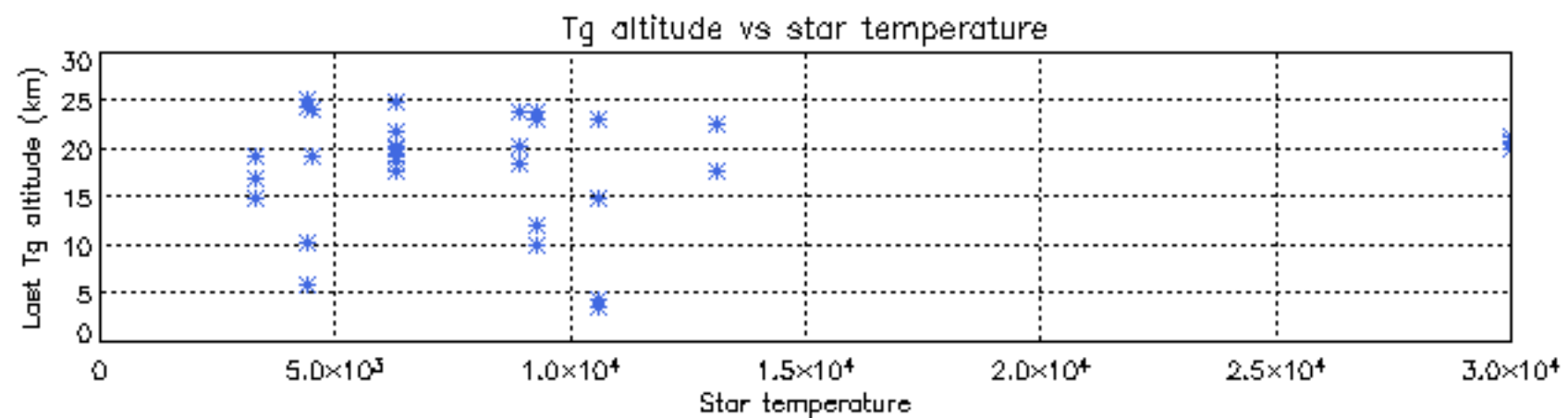
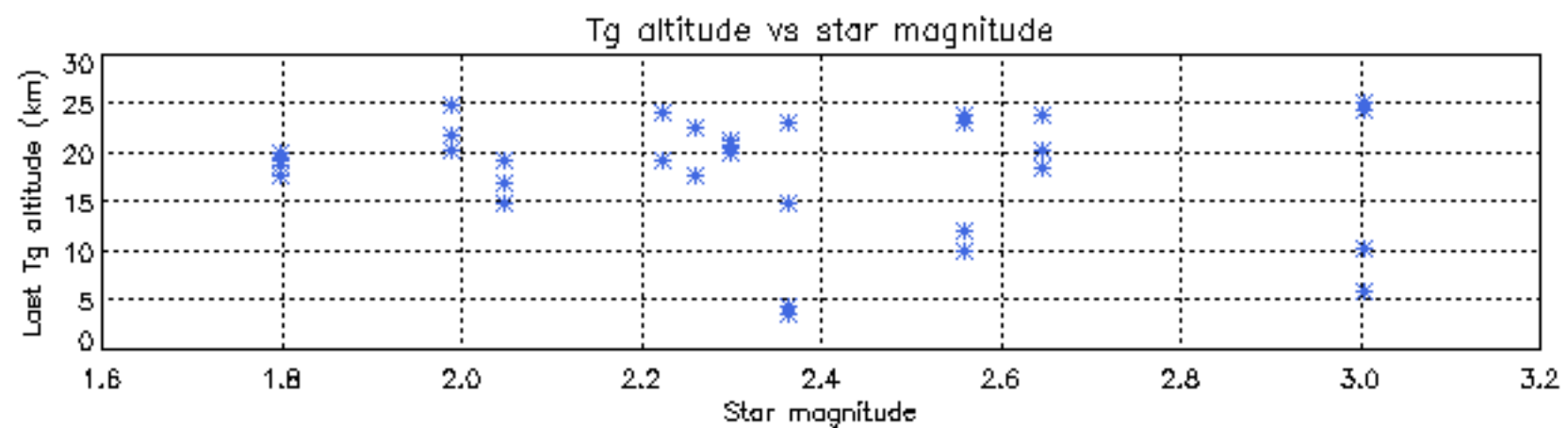
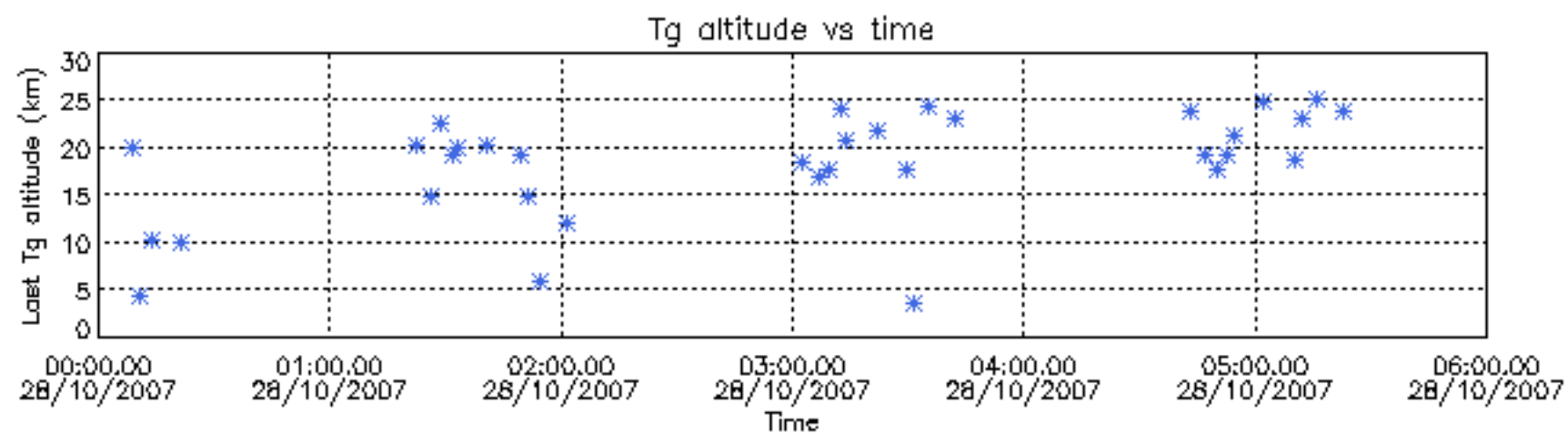
Percentage of saturation errors per profile

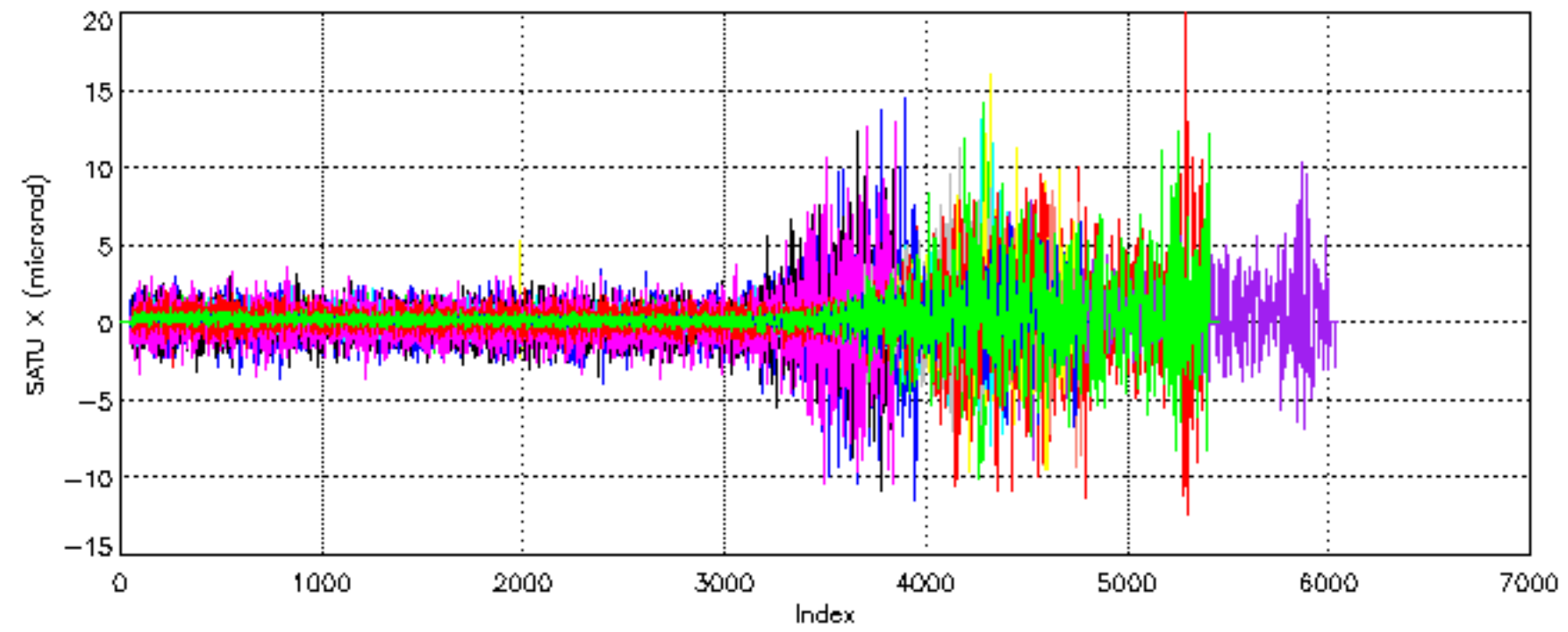


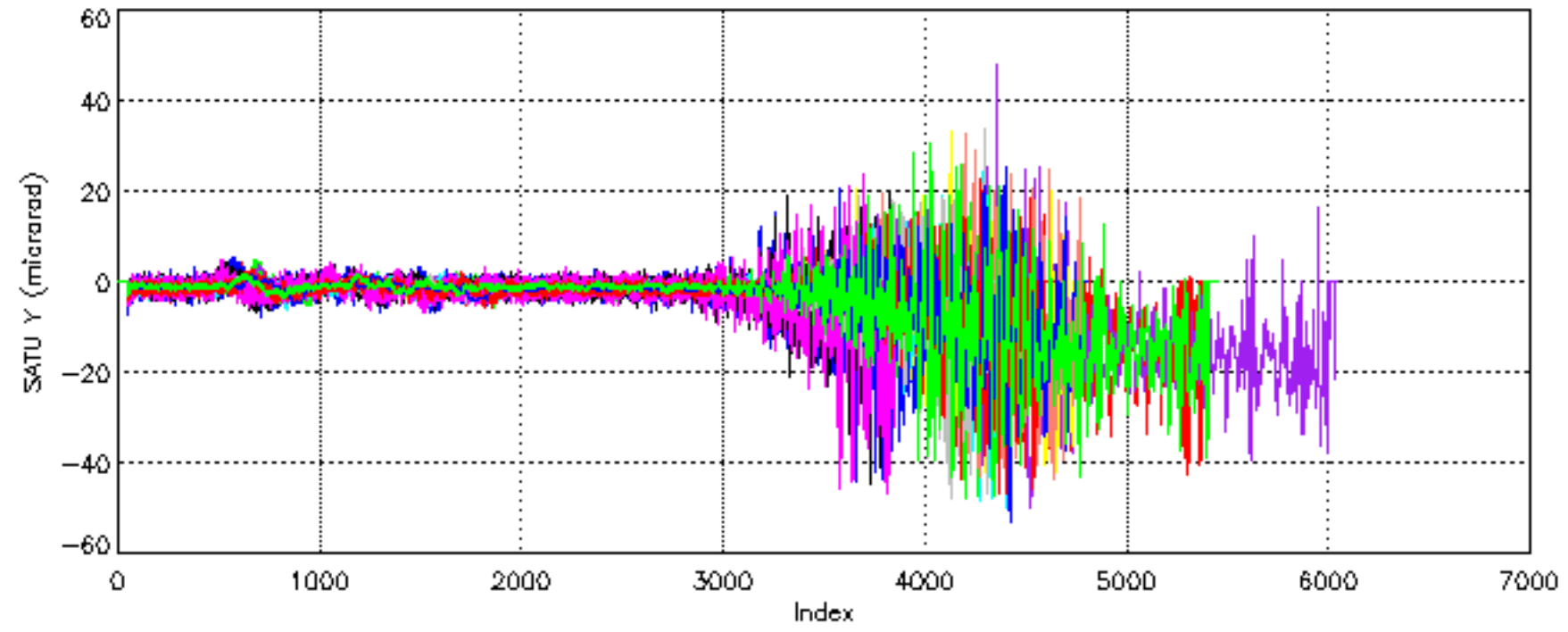
Tangent altitude at which the star is lost

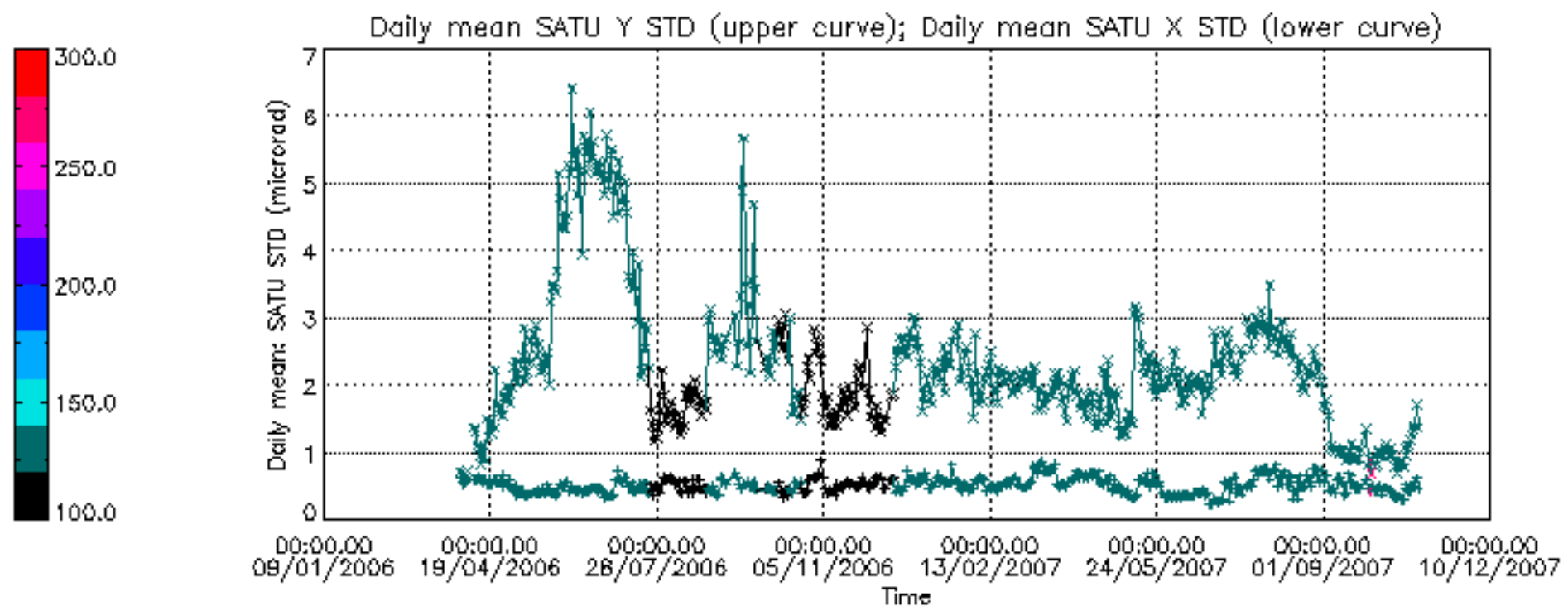


Tangent altitude at which the star is lost









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 8; 106.3; 03-OCT-2007 07:13:10; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29233
 9; 190.7; 03-OCT-2007 07:14:34; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29233
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 6; 3998.9; 03-OCT-2007 08:18:03; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29233
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 9; 5752.6; 03-OCT-2007 08:47:16; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29233
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 11; 6014.5; 03-OCT-2007 08:51:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29233
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7; 833.8; 04-OCT-2007 01:51:53; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;29244
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9; 115.5; 04-OCT-2007 03:20:30; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29245
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9; 116.1; 04-OCT-2007 05:01:07; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29246
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9; 117.0; 04-OCT-2007 06:41:44; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;29247
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12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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2; -2031.3; 07-OCT-2007 04:31:04; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29288
3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 2; 158.7; 07-OCT-2007 23:34:10; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29300
 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 2; -2031.2; 07-OCT-2007 06:11:41; Bright; 32.0; 82; 48Bet UMa ; 2.37; 10600;occ; 64; 0;29289
 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289
 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
 8; -64.0; 07-OCT-2007 06:44:28; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29289
 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 2; 2390.3; 07-OCT-2007 07:25:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29290
 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290
 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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2; 2390.4; 07-OCT-2007 09:05:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29291
 3; 2917.2; 07-OCT-2007 09:14:45; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29291
 4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
 5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
 6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
 7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
 8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
 9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
 10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
 11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
 12; 5877.3; 07-OCT-2007 10:04:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;29291
 13; 5972.8; 07-OCT-2007 10:05:40; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29291
 14; 6060.1; 07-OCT-2007 10:07:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29291
 15; 6188.2; 07-OCT-2007 10:09:16; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29291
 16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
 17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
 18; 6886.8; 07-OCT-2007 10:20:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29291
 19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
 20; 7605.3; 07-OCT-2007 10:32:53; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29291

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 3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
 4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
 5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
 6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
 7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
 8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
 9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
 10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
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 12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
 13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
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 17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
 18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29292
 19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
 20; 6887.2; 07-OCT-2007 12:01:31; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29292
 21; 7200.1; 07-OCT-2007 12:06:44; Dark ; 37.0; 84; Alp Phe ; 2.40; 4500;occ; 74; 0;29292

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 3; 2390.6; 07-OCT-2007 12:27:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29293
 4; 2916.6; 07-OCT-2007 12:35:56; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29293
 5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
 6; 3427.5; 07-OCT-2007 12:44:27; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29293
 7; 3913.6; 07-OCT-2007 12:52:33; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29293
 8; 4005.1; 07-OCT-2007 12:54:05; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29293
 9; 4201.8; 07-OCT-2007 12:57:21; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29293
 10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
 11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
 12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
 13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
 14; 5878.9; 07-OCT-2007 13:25:18; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29293
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 16; 6061.7; 07-OCT-2007 13:28:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29293
 17; 6189.8; 07-OCT-2007 13:30:29; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29293
 18; 6273.8; 07-OCT-2007 13:31:53; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29293
 19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
 20; 6887.5; 07-OCT-2007 13:42:07; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29293
 21; 7200.3; 07-OCT-2007 13:47:20; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;29293

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 3; 2390.7; 07-OCT-2007 14:07:46; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29294
 4; 2916.3; 07-OCT-2007 14:16:32; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29294


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8; 4202.0; 07-OCT-2007 14:37:57; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29294
9; 4605.6; 07-OCT-2007 14:44:41; Bright; 56.0; 166; 17Eps Leo ; 2.98; 6000;occ; 112; 0;29294
10; 4793.0; 07-OCT-2007 14:47:48; Bright; 40.0; 22; 32Alp Leo ; 1.36; 15200;occ; 80; 0;29294
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12; 5779.5; 07-OCT-2007 15:04:15; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29294
13; 5879.7; 07-OCT-2007 15:05:55; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29294
14; 5974.1; 07-OCT-2007 15:07:29; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29294
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18;	6435.9;	21-OCT-2007	14:34:57;	Dark	;	47.0;	2;	Alp Car	;	-0.74;	7000;occ;	94;	0;	29494
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20;	6946.5;	21-OCT-2007	14:43:27;	Dark	;	43.5;	9;	Alp Eri	;	0.45;	24000;occ;	87;	0;	29494
21;	7117.0;	21-OCT-2007	14:46:18;	Dark	;	43.5;	157;	The1Eri	;	2.91;	9300;occ;	87;	0;	29494

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1;	1598.8;	21-OCT-2007	14:54:56;	Dark	;	44.5;	52;	16Bet Cet	;	2.04;	4500;occ;	89;	0;	29495
2;	2170.3;	21-OCT-2007	15:04:27;	Bright;	;	36.0;	140;	88Gam Peg	;	2.83;	26000;occ;	72;	0;	29495
3;	2404.9;	21-OCT-2007	15:08:22;	Bright;	;	36.0;	58;	21Alp And	;	2.07;	11000;occ;	72;	0;	29495
4;	2534.0;	21-OCT-2007	15:10:31;	Bright;	;	40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	29495
5;	2875.1;	21-OCT-2007	15:16:12;	Bright;	;	35.0;	68;	18Alp Cas	;	2.22;	4500;occ;	70;	0;	29495
6;	2953.5;	21-OCT-2007	15:17:30;	Bright;	;	38.0;	76;	27Gam Cas	;	2.30;	30000;occ;	76;	0;	29495
7;	3425.3;	21-OCT-2007	15:25:22;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	29495
8;	3623.3;	21-OCT-2007	15:28:40;	Bright;	;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	29495
9;	3920.3;	21-OCT-2007	15:33:37;	Bright;	;	37.5;	36;	50Alp UMa	;	1.80;	6300;occ;	75;	0;	29495
10;	4014.6;	21-OCT-2007	15:35:11;	Bright;	;	34.0;	82;	48Bet UMa	;	2.37;	10600;occ;	68;	0;	29495
11;	4223.1;	21-OCT-2007	15:38:40;	Bright;	;	37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	29495
12;	4697.0;	21-OCT-2007	15:46:34;	Bright;	;	40.5;	51;	41Gam1Leo	;	2.01;	4500;occ;	81;	0;	29495
13;	5811.3;	21-OCT-2007	16:05:08;	Dark	;	38.0;	113;	Mu Vel	;	2.69;	5000;occ;	76;	0;	29495
14;	5896.3;	21-OCT-2007	16:06:33;	Dark	;	55.0;	65;	Lam Vel	;	2.20;	4400;occ;	110;	0;	29495
15;	5981.3;	21-OCT-2007	16:07:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29495
16;	6097.7;	21-OCT-2007	16:09:54;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	29495
17;	6198.1;	21-OCT-2007	16:11:35;	Dark	;	38.5;	29;	Bet Car	;	1.67;	10200;occ;	77;	0;	29495
18;	6436.8;	21-OCT-2007	16:15:34;	Dark	;	47.0;	2;	Alp Car	;	-0.74;	7000;occ;	94;	0;	29495
19;	6861.3;	21-OCT-2007	16:22:38;	Dark	;	36.5;	143;	Alp Hyi	;	2.86;	7200;occ;	73;	0;	29495
20;	6946.9;	21-OCT-2007	16:24:04;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	29495
21;	7117.7;	21-OCT-2007	16:26:54;	Dark	;	42.5;	157;	The1Eri	;	2.91;	9300;occ;	85;	0;	29495

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1;	1598.9;	21-OCT-2007	16:35:32;	Dark	;	43.0;	52;	16Bet Cet	;	2.04;	4500;occ;	86;	0;	29496
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2; 2170.4; 21-OCT-2007 16:45:03; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29496
3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496
4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496
5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496
6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496
7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496
8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496
9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496
10; 4014.6; 21-OCT-2007 17:15:47; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29496
11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496
12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496
13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496
14; 5896.9; 21-OCT-2007 17:47:10; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29496
15; 5981.9; 21-OCT-2007 17:48:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29496
16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496
17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496
18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496
19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496
20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497
3; 1599.0; 21-OCT-2007 18:16:08; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29497
4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497
5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497
6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497
7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497
8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497
9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497
10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497
11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497
12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497
13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497
14; 4697.5; 21-OCT-2007 19:07:46; Bright; 59.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 118; 0;29497
15; 5811.8; 21-OCT-2007 19:26:21; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29497
16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497
17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497
18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497
19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497
20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497
21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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3; -52.8; 21-OCT-2007 21:09:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29498
4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499
5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499
6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499
7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499
8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499
9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499
10; 1599.2; 21-OCT-2007 21:37:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29499
11; 2170.6; 21-OCT-2007 21:46:51; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29499
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13; 2533.1; 21-OCT-2007 21:52:54; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29499
14; 2874.5; 21-OCT-2007 21:58:35; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29499
15; 2953.0; 21-OCT-2007 21:59:54; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29499
16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499
17; 3624.0; 21-OCT-2007 22:11:05; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29499
18; 3919.9; 21-OCT-2007 22:16:01; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29499
19; 4014.3; 21-OCT-2007 22:17:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29499
20; 4223.2; 21-OCT-2007 22:21:04; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29499
21; 4697.8; 21-OCT-2007 22:28:59; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;29499

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3; -52.2; 21-OCT-2007 22:50:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29499
4; 41.5; 21-OCT-2007 22:51:58; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29500

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6; 403.9; 21-OCT-2007 22:58:00; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29500
7; 826.2; 21-OCT-2007 23:05:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29500
8; 911.7; 21-OCT-2007 23:06:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29500
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10; 1599.4; 21-OCT-2007 23:17:56; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29500
11; 2170.7; 21-OCT-2007 23:27:27; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29500
12; 2405.1; 21-OCT-2007 23:31:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29500
13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
14; 2874.4; 21-OCT-2007 23:39:11; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29500
15; 2952.7; 21-OCT-2007 23:40:29; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29500
16; 3425.1; 21-OCT-2007 23:48:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29500
17; 3624.2; 21-OCT-2007 23:51:41; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29500
18; 3919.9; 21-OCT-2007 23:56:36; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29500
19; 4014.2; 21-OCT-2007 23:58:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29500
20; 4223.4; 22-OCT-2007 00:01:40; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29500
21; 4698.2; 22-OCT-2007 00:09:35; Bright; 40.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 80; 0;29500
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3; 163.3; 22-OCT-2007 00:34:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29501
4; 404.8; 22-OCT-2007 00:38:37; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29501
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6; 911.9; 22-OCT-2007 00:47:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29501
7; 1083.7; 22-OCT-2007 00:49:56; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29501
8; 1599.6; 22-OCT-2007 00:58:32; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29501
9; 2170.8; 22-OCT-2007 01:08:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29501
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11; 2532.7; 22-OCT-2007 01:14:05; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29501
12; 2874.3; 22-OCT-2007 01:19:47; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29501
13; 2952.6; 22-OCT-2007 01:21:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29501
14; 3425.1; 22-OCT-2007 01:28:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29501
15; 3624.4; 22-OCT-2007 01:32:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29501
16; 3919.8; 22-OCT-2007 01:37:12; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29501
17; 4014.1; 22-OCT-2007 01:38:47; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29501
18; 4223.4; 22-OCT-2007 01:42:16; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;29501
19; 4698.7; 22-OCT-2007 01:50:11; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;29501
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3; 163.6; 22-OCT-2007 02:15:12; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29502
4; 405.6; 22-OCT-2007 02:19:14; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29502
5; 826.9; 22-OCT-2007 02:26:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29502
6; 912.2; 22-OCT-2007 02:27:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29502
7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
8; 1599.8; 22-OCT-2007 02:39:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29502
9; 2170.9; 22-OCT-2007 02:48:39; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29502
10; 2405.3; 22-OCT-2007 02:52:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29502
11; 2532.5; 22-OCT-2007 02:54:41; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29502
12; 2874.2; 22-OCT-2007 03:00:22; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29502
13; 2952.4; 22-OCT-2007 03:01:41; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29502
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3; -2021.6; 22-OCT-2007 03:19:23; Bright; 51.5; 82; 48Bet UMa ; 2.37; 10600;occ; 103; 0;29502
4; -1812.6; 22-OCT-2007 03:22:52; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29502
5; -1337.1; 22-OCT-2007 03:30:47; Bright; 40.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 80; 0;29502
6; -222.8; 22-OCT-2007 03:49:21; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;29502
7; -134.8; 22-OCT-2007 03:50:49; Dark ; 48.0; 65; Lam Vel ; 2.20; 4400;occ; 96; 0;29502
8; -50.3; 22-OCT-2007 03:52:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29502
9; 43.3; 22-OCT-2007 03:53:48; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29503
10; 164.0; 22-OCT-2007 03:55:48; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29503
11; 406.6; 22-OCT-2007 03:59:51; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29503
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 17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
 18; 6447.3; 22-OCT-2007 14:03:31; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29508
 19; 6864.7; 22-OCT-2007 14:10:28; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29508
 20; 6949.9; 22-OCT-2007 14:11:54; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;29508
 21; 7123.2; 22-OCT-2007 14:14:47; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29508

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 2; 2171.4; 22-OCT-2007 14:32:51; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29509
 3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
 4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
 5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
 6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
 7; 3425.2; 22-OCT-2007 14:53:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29509
 8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509
 9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
 10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
 11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
 12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
 13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
 14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
 15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509
 16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
 17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
 18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
 19; 6864.8; 22-OCT-2007 15:51:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29509
 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
 21; 7123.6; 22-OCT-2007 15:55:23; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29509

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 2; 2171.7; 22-OCT-2007 16:13:27; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29510
 3; 2405.9; 22-OCT-2007 16:17:22; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29510
 4; 2531.0; 22-OCT-2007 16:19:27; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29510
 5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
 6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
 7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
 8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510
 9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
 10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

11; 4224.3; 22-OCT-2007 16:47:40; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29510
 12; 4640.9; 22-OCT-2007 16:54:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29510
 13; 5815.4; 22-OCT-2007 17:14:11; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29510
 14; 5906.8; 22-OCT-2007 17:15:43; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29510
 15; 5990.9; 22-OCT-2007 17:17:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29510
 16; 6084.0; 22-OCT-2007 17:18:40; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29510
 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510
 18; 6449.0; 22-OCT-2007 17:24:45; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29510
 19; 6865.2; 22-OCT-2007 17:31:41; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29510
 20; 6950.5; 22-OCT-2007 17:33:06; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29510
 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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 2; 1601.3; 22-OCT-2007 17:44:33; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29511
 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511
 4; 2405.9; 22-OCT-2007 17:57:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29511
 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511
 6; 2873.4; 22-OCT-2007 18:05:45; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29511
 7; 2951.3; 22-OCT-2007 18:07:03; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29511
 8; 3425.0; 22-OCT-2007 18:14:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29511
 9; 3626.6; 22-OCT-2007 18:18:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29511
 10; 3919.7; 22-OCT-2007 18:23:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29511
 11; 4014.7; 22-OCT-2007 18:24:46; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29511
 12; 4224.2; 22-OCT-2007 18:28:16; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;29511
 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511
 14; 5815.7; 22-OCT-2007 18:54:47; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29511
 15; 5907.5; 22-OCT-2007 18:56:19; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29511
 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511
 17; 6084.5; 22-OCT-2007 18:59:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29511
 18; 6202.5; 22-OCT-2007 19:01:14; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29511
 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511
 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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 2; 914.7; 22-OCT-2007 19:13:42; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29512
 3; 1088.4; 22-OCT-2007 19:16:36; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29512
 4; 1601.4; 22-OCT-2007 19:25:09; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29512
 5; 2171.9; 22-OCT-2007 19:34:40; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;29512
 6; 2406.0; 22-OCT-2007 19:38:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29512
 7; 2530.5; 22-OCT-2007 19:40:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29512
 8; 2873.2; 22-OCT-2007 19:46:21; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;29512
 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512
 10; 3424.9; 22-OCT-2007 19:55:33; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;29512
 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512
 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512
 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
 15; 4641.3; 22-OCT-2007 20:15:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29512
 16; 5815.8; 22-OCT-2007 20:35:24; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29512
 17; 5908.1; 22-OCT-2007 20:36:56; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29512
 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512
 20; 6202.7; 22-OCT-2007 20:41:50; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29512
 21; 6450.6; 22-OCT-2007 20:45:58; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;29512
 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 2; -126.5; 22-OCT-2007 23:58:09; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29514
 3; -42.5; 22-OCT-2007 23:59:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29514
 4; 50.2; 23-OCT-2007 00:01:06; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29515
 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515
 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
 10; 1601.7; 23-OCT-2007 00:26:57; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29515
 11; 2172.0; 23-OCT-2007 00:36:27; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29515

12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515
 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515
 17; 3627.5; 23-OCT-2007 01:00:43; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29515
 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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 2; -125.7; 23-OCT-2007 01:38:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29515
 3; -41.9; 23-OCT-2007 01:40:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29515
 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
 8; 915.6; 23-OCT-2007 01:56:07; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29516
 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
 10; 1602.0; 23-OCT-2007 02:07:33; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29516
 11; 2172.3; 23-OCT-2007 02:17:04; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29516
 12; 2406.4; 23-OCT-2007 02:20:58; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29516
 13; 2529.7; 23-OCT-2007 02:23:01; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29516
 14; 2872.7; 23-OCT-2007 02:28:44; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29516
 15; 2950.5; 23-OCT-2007 02:30:02; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29516
 16; 3425.0; 23-OCT-2007 02:37:56; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;29516

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 2; -2116.4; 23-OCT-2007 02:46:11; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29516
 3; -2021.7; 23-OCT-2007 02:47:45; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29516
 4; -1811.5; 23-OCT-2007 02:51:16; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29516
 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
 6; -218.8; 23-OCT-2007 03:17:48; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29516
 7; -125.0; 23-OCT-2007 03:19:22; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29516
 8; -41.2; 23-OCT-2007 03:20:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29516
 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517
 10; 168.0; 23-OCT-2007 03:24:15; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29517
 11; 417.9; 23-OCT-2007 03:28:25; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29517
 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517
 13; 915.9; 23-OCT-2007 03:36:43; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29517
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 15; 1602.3; 23-OCT-2007 03:48:09; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29517
 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517
 17; 2406.5; 23-OCT-2007 04:01:34; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29517
 18; 2529.6; 23-OCT-2007 04:03:37; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29517
 19; 2872.8; 23-OCT-2007 04:09:20; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29517
 20; 2950.4; 23-OCT-2007 04:10:38; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29517
 21; 3425.1; 23-OCT-2007 04:18:32; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29517
 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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 2; -2116.4; 23-OCT-2007 04:26:47; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;29517
 3; -2021.3; 23-OCT-2007 04:28:22; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;29517
 4; -1811.5; 23-OCT-2007 04:31:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29517
 5; -1393.7; 23-OCT-2007 04:38:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29517
 6; -218.6; 23-OCT-2007 04:58:25; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29517
 7; -124.3; 23-OCT-2007 04:59:59; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29517
 8; -40.6; 23-OCT-2007 05:01:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29517
 9; 52.1; 23-OCT-2007 05:02:55; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29518
 10; 168.3; 23-OCT-2007 05:04:51; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29518
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4;-1384.1; 26-OCT-2007 06:25:20; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29561
5; -204.8; 26-OCT-2007 06:44:59; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;29561
6; -91.7; 26-OCT-2007 06:46:52; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29561
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8; 87.5; 26-OCT-2007 06:49:51; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29562
9; 181.2; 26-OCT-2007 06:51:25; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29562
10; 841.6; 26-OCT-2007 07:02:26; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29562
11; 926.0; 26-OCT-2007 07:03:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;29562
12; 1109.0; 26-OCT-2007 07:06:53; Dark ; 30.0; 157; The1Eri ; 2.91; 9300;occ; 60; 0;29562
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9; 3918.1; 26-OCT-2007 07:53:42; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29562
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21; 7645.4; 26-OCT-2007 08:55:49; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29562
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5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
8; 3918.0; 26-OCT-2007 09:34:18; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29563
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10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 18; 6878.2; 26-OCT-2007 12:04:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29564
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 6; 2944.6; 26-OCT-2007 12:39:16; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29565
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 13; 5832.4; 26-OCT-2007 13:27:24; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29565
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15; 6029.0; 26-OCT-2007 16:51:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29567
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17; 6219.0; 26-OCT-2007 16:55:02; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;29567
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3; 2674.7; 29-OCT-2007 10:59:55; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29607
4; 2867.6; 29-OCT-2007 11:03:08; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29607
5; 2941.1; 29-OCT-2007 11:04:22; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29607
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7; 3915.4; 29-OCT-2007 11:20:36; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29607
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3; 2674.3; 29-OCT-2007 12:40:31; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29608

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6; 3424.2; 29-OCT-2007 12:53:01; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29608
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9; 4228.7; 29-OCT-2007 13:06:25; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29608
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6; 114.1; 30-OCT-2007 04:43:50; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29618
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