

GOMOS Daily Report 28-JAN-2008

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	31JAN2008 16:35:23
Data source version	GOMOS/5.00
Start time of products	28-01-2008 (28JAN2008 00:00:00)
Stop time of products	29-01-2008 (29JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

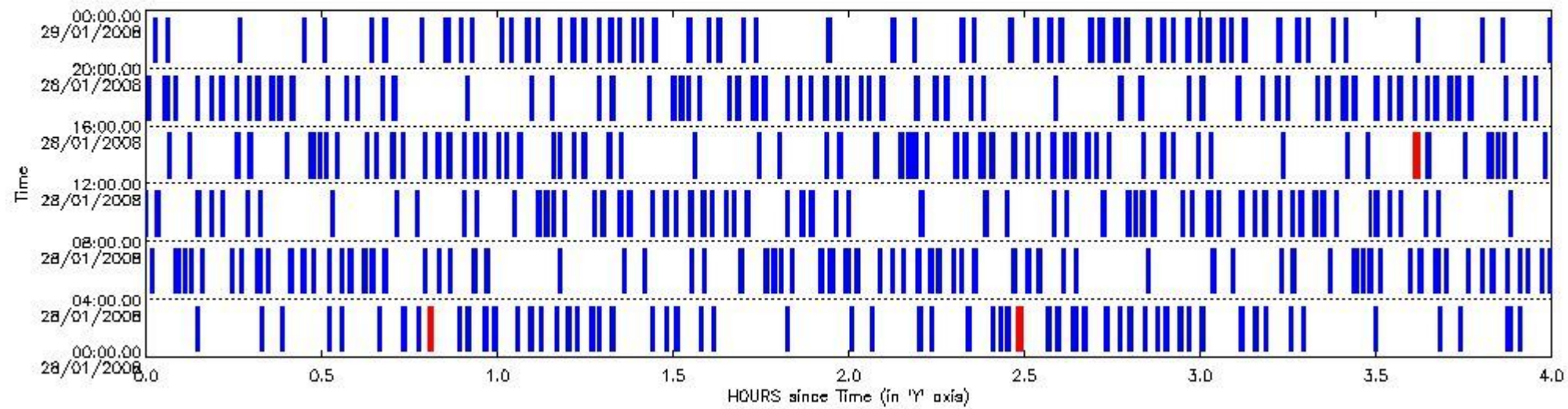
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

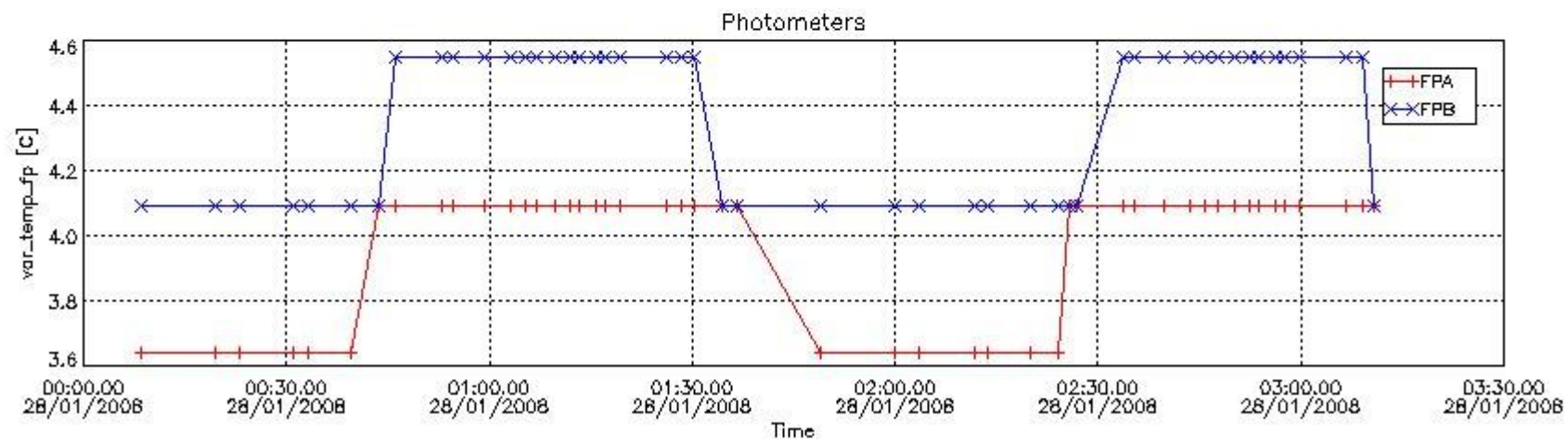
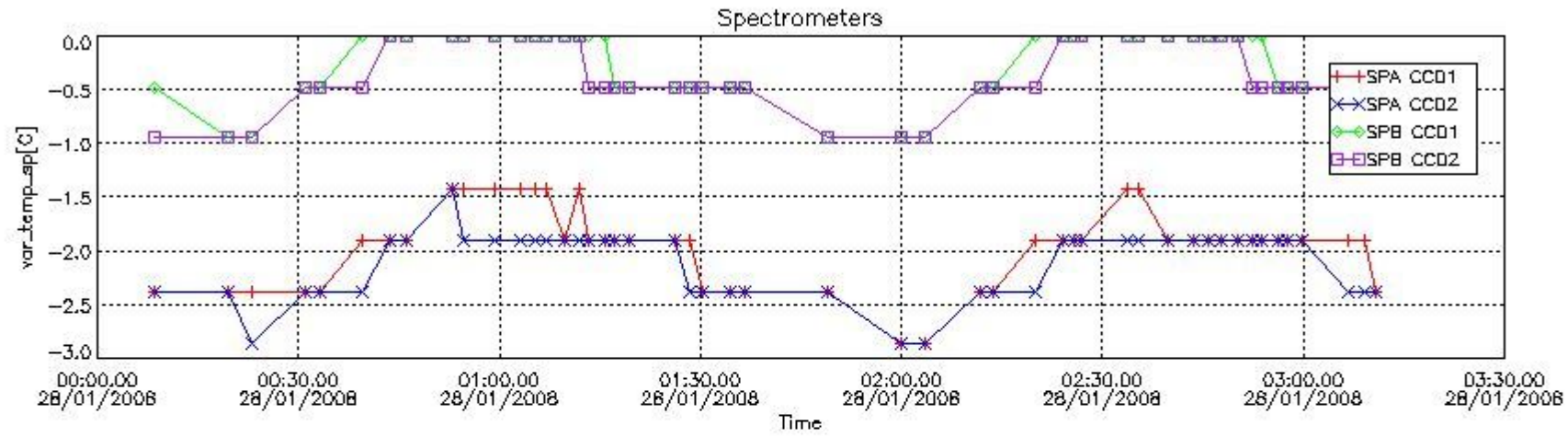
UTC start time	Star name	Star ID	Orbit
28-JAN-2008 00:48:03	AlpAra	147	30903
28-JAN-2008 02:28:39	AlpAra	147	30904
28-JAN-2008 15:36:26	55AlpOph	59	30912

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_1PNPDE20080128_000829_000000362065_00288_30903_5368.N1	28-JAN-2008 00:08:29	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30903	No
2	GOM_TRA_1PNPDE20080128_001928_000000372065_00288_30903_5369.N1	28-JAN-2008 00:19:28	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30903	No
3	GOM_TRA_1PNPDE20080128_002257_000000352065_00288_30903_5370.N1	28-JAN-2008 00:22:57	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	30903	No
4	GOM_TRA_1PNPDE20080128_003101_000000352065_00288_30903_5371.N1	28-JAN-2008 00:31:01	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	30903	No
5	GOM_TRA_1PNPDE20080128_003308_000000352065_00288_30903_5372.N1	28-JAN-2008 00:33:08	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	30903	No
6	GOM_TRA_1PNPDE20080128_003926_000000412065_00288_30903_5500.N1	28-JAN-2008 00:39:26	Twilight	40.500	86	35Eta Oph	2.4300	10200.	81	30903	No
7	GOM_TRA_1PNPDE20080128_004332_000000512065_00288_30903_5501.N1	28-JAN-2008 00:43:32	Dark	51.000	16	21Alp Sco	1.0200	3000.0	102	30903	No
8	GOM_TRA_1PNPDE20080128_004610_000000412065_00288_30903_5502.N1	28-JAN-2008 00:46:10	Dark	41.000	40	The Sco	1.8590	7100.0	82	30903	No

9	GOM_TRA_1PNPDE20080128_005306_000000372065_00289_30904_5503.N1	28-JAN-2008 00:53:06	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30904	No
10	GOM_TRA_1PNPDE20080128_005438_000000442065_00289_30904_5504.N1	28-JAN-2008 00:54:38	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	30904	No
11	GOM_TRA_1PNPDE20080128_005913_000000432065_00289_30904_5505.N1	28-JAN-2008 00:59:13	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	30904	No
12	GOM_TRA_1PNPDE20080128_010304_000000382065_00289_30904_5506.N1	28-JAN-2008 01:03:04	Dark	37.500	29	Bet Car	1.6720	10200.	75	30904	No
13	GOM_TRA_1PNPDE20080128_010519_000000402065_00289_30904_5507.N1	28-JAN-2008 01:05:19	Dark	39.500	71	lot Car	2.2460	7700.0	79	30904	No
14	GOM_TRA_1PNPDE20080128_010706_000000422065_00289_30904_5508.N1	28-JAN-2008 01:07:06	Dark	41.500	46	Del Vel	1.9540	10600.	83	30904	No
15	GOM_TRA_1PNPDE20080128_010941_000000382065_00289_30904_5509.N1	28-JAN-2008 01:09:41	Dark	37.500	34	Gam2Vel	1.7930	23000.	75	30904	No
16	GOM_TRA_1PNPDE20080128_011147_000000422065_00289_30904_5510.N1	28-JAN-2008 01:11:47	Straylight	41.500	70	Zet Pup	2.2460	39000.	83	30904	No
17	GOM_TRA_1PNPDE20080128_011313_000000432065_00289_30904_5511.N1	28-JAN-2008 01:13:13	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	30904	No
18	GOM_TRA_1PNPDE20080128_011540_000000432065_00289_30904_5512.N1	28-JAN-2008 01:15:40	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	30904	No
19	GOM_TRA_1PNPDE20080128_011703_000000402065_00289_30904_5513.N1	28-JAN-2008 01:17:03	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30904	No
20	GOM_TRA_1PNPDE20080128_011912_000000442065_00289_30904_5514.N1	28-JAN-2008 01:19:12	Straylight	43.500	1	9Alp CMa	-1.4400	11000.	87	30904	No
21	GOM_TRA_1PNPDE20080128_012604_000000412065_00289_30904_5515.N1	28-JAN-2008 01:26:04	Tw_i_and_stray	41.000	153	3Bet CMi	2.8940	13100.	82	30904	No
22	GOM_TRA_1PNPDE20080128_012829_000000342065_00289_30904_5516.N1	28-JAN-2008 01:28:29	Bright	34.000	44	24Gam Gem	1.9280	11000.	68	30904	No
23	GOM_TRA_1PNPDE20080128_013017_000000382065_00289_30904_5517.N1	28-JAN-2008 01:30:17	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	30904	No
24	GOM_TRA_1PNPDE20080128_013432_000000352065_00289_30904_5518.N1	28-JAN-2008 01:34:32	Bright	34.500	107	37The Aur	2.6490	11000.	69	30904	No
25	GOM_TRA_1PNPDE20080128_013639_000000362065_00289_30904_5519.N1	28-JAN-2008 01:36:39	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30904	No
26	GOM_TRA_1PNPDE20080128_014904_000000332065_00289_30904_5520.N1	28-JAN-2008 01:49:04	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30904	No
27	GOM_TRA_1PNPDE20080128_020004_000000352065_00289_30904_5521.N1	28-JAN-2008 02:00:04	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	30904	No
28	GOM_TRA_1PNPDE20080128_020333_000000342065_00289_30904_5522.N1	28-JAN-2008 02:03:33	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	30904	No
29	GOM_TRA_1PNPDE20080128_021137_000000532065_00289_30904_5523.N1	28-JAN-2008 02:11:37	Bright	53.000	59	55Alp Oph	2.0800	8900.0	106	30904	No
30	GOM_TRA_1PNPDE20080128_021344_000000342065_00289_30904_5524.N1	28-JAN-2008 02:13:44	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30904	No
31	GOM_TRA_1PNPDE20080128_022002_000000412065_00289_30904_5658.N1	28-JAN-2008 02:20:02	Tw_i_and_stray	41.000	86	35Eta Oph	2.4300	10200.	82	30904	No
32	GOM_TRA_1PNPDE20080128_022409_000000482065_00289_30904_5659.N1	28-JAN-2008 02:24:09	Dark	47.500	16	21Alp Sco	1.0200	3000.0	95	30904	No
33	GOM_TRA_1PNPDE20080128_022538_000000372065_00289_30904_5660.N1	28-JAN-2008 02:25:38	Dark	36.500	85	Kap Sco	2.4070	28000.	73	30904	No
34	GOM_TRA_1PNPDE20080128_022646_000000412065_00289_30904_5661.N1	28-JAN-2008 02:26:46	Dark	41.000	40	The Sco	1.8590	7100.0	82	30904	No
35	GOM_TRA_1PNPDE20080128_023342_000000382065_00290_30905_5662.N1	28-JAN-2008 02:33:42	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	30905	No
36	GOM_TRA_1PNPDE20080128_023514_000000422065_00290_30905_5663.N1	28-JAN-2008 02:35:14	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	30905	No
37	GOM_TRA_1PNPDE20080128_023949_000000442065_00290_30905_5664.N1	28-JAN-2008 02:39:49	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	30905	No
38	GOM_TRA_1PNPDE20080128_024340_000000382065_00290_30905_5665.N1	28-JAN-2008 02:43:40	Dark	38.000	29	Bet Car	1.6720	10200.	76	30905	No
39	GOM_TRA_1PNPDE20080128_024555_000000392065_00290_30905_5666.N1	28-JAN-2008 02:45:55	Dark	39.000	71	lot Car	2.2460	7700.0	78	30905	No
40	GOM_TRA_1PNPDE20080128_024742_000000402065_00290_30905_5667.N1	28-JAN-2008 02:47:42	Dark	40.000	46	Del Vel	1.9540	10600.	80	30905	No
41	GOM_TRA_1PNPDE20080128_025017_000000392065_00290_30905_5668.N1	28-JAN-2008 02:50:17	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	30905	No
42	GOM_TRA_1PNPDE20080128_025223_000000392065_00290_30905_5669.N1	28-JAN-2008 02:52:23	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30905	No
43	GOM_TRA_1PNPDE20080128_025349_000000392065_00290_30905_5670.N1	28-JAN-2008 02:53:49	Straylight	38.500	117	Pi Pup	2.7060	3800.0	77	30905	No
44	GOM_TRA_1PNPDE20080128_025616_000000412065_00290_30905_5671.N1	28-JAN-2008 02:56:16	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	30905	No
45	GOM_TRA_1PNPDE20080128_025739_000000402065_00290_30905_5672.N1	28-JAN-2008 02:57:39	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30905	No
46	GOM_TRA_1PNPDE20080128_025948_000000502065_00290_30905_5673.N1	28-JAN-2008 02:59:48	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	30905	No
47	GOM_TRA_1PNPDE20080128_030640_000000412065_00290_30905_5674.N1	28-JAN-2008 03:06:40	Tw_i_and_stray	40.500	153	3Bet CMi	2.8940	13100.	81	30905	No
48	GOM_TRA_1PNPDE20080128_030905_000000392065_00290_30905_5675.N1	28-JAN-2008 03:09:05	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	30905	No
49	GOM_TRA_1PNPDE20080128_031053_000000382065_00290_30905_5676.N1	28-JAN-2008 03:10:53	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	30905	No

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



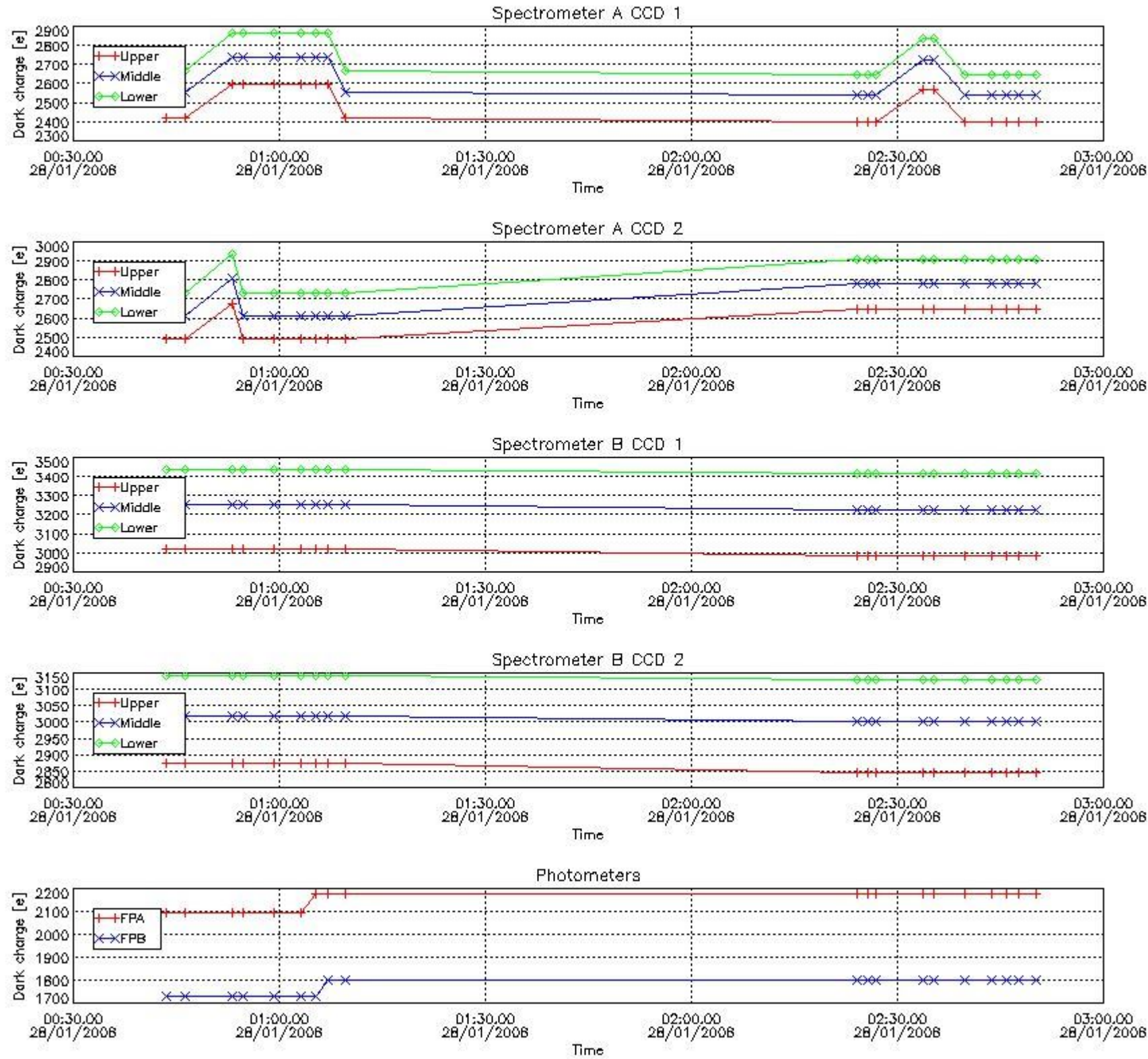
4. Overview of dark signal processing per product

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



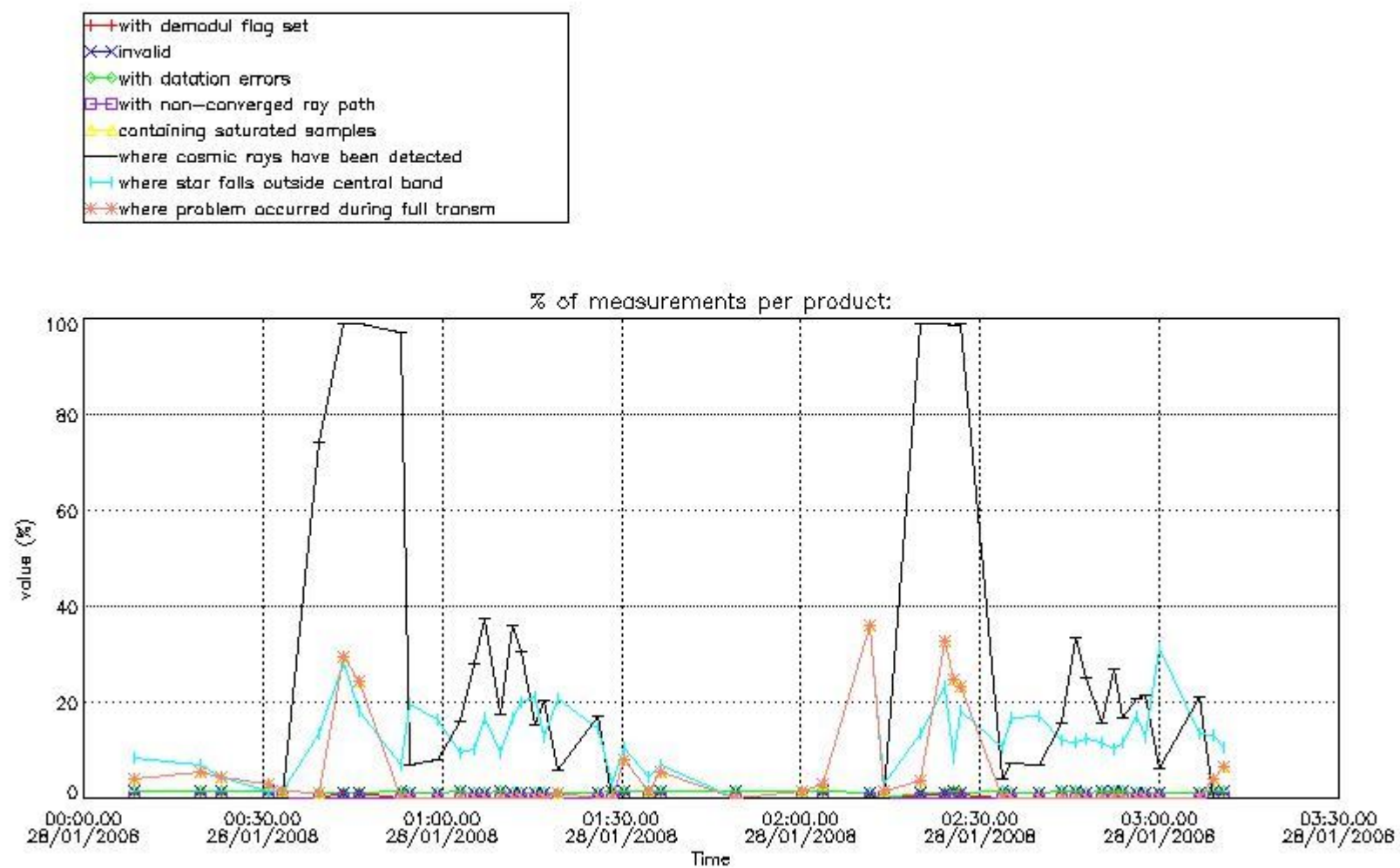
5. Demodulation flag and quality information monitoring

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.

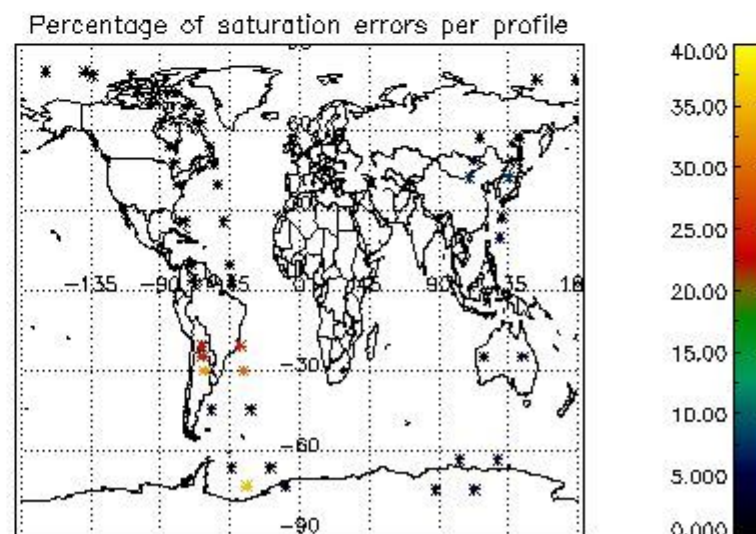
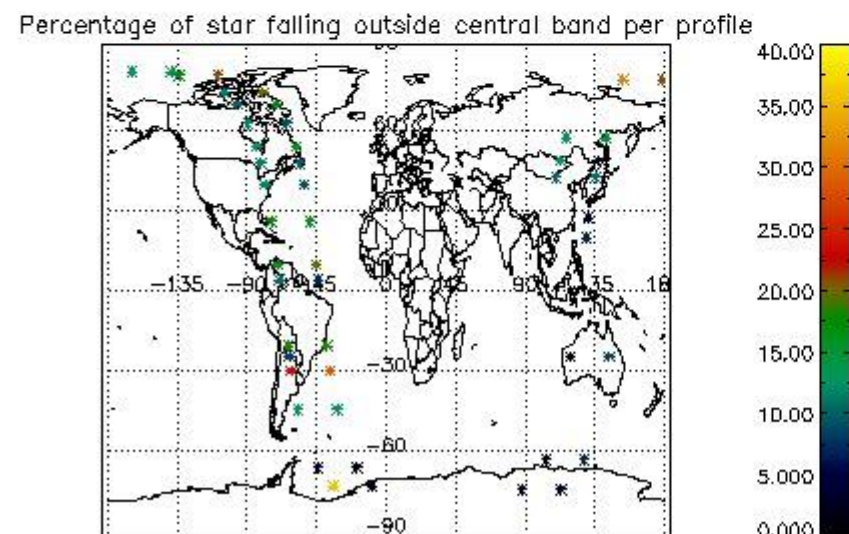
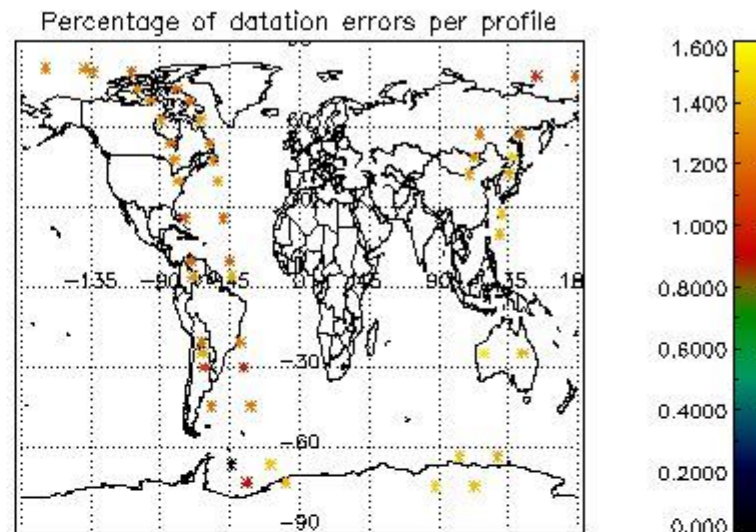
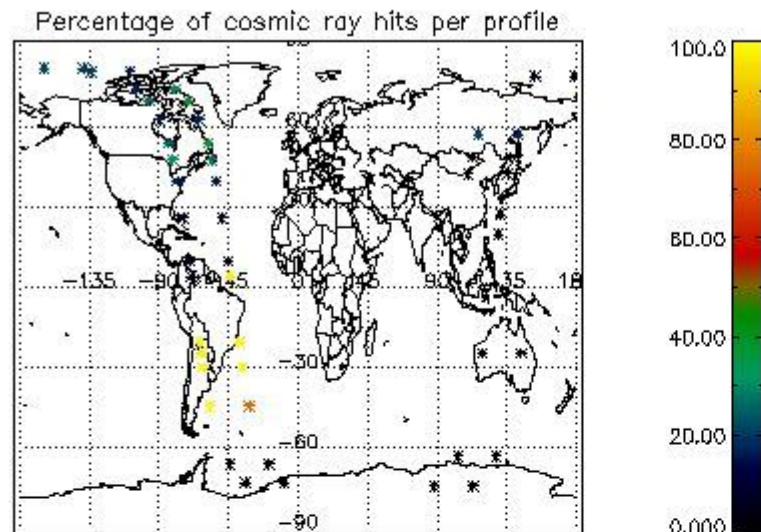
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6531 %
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)



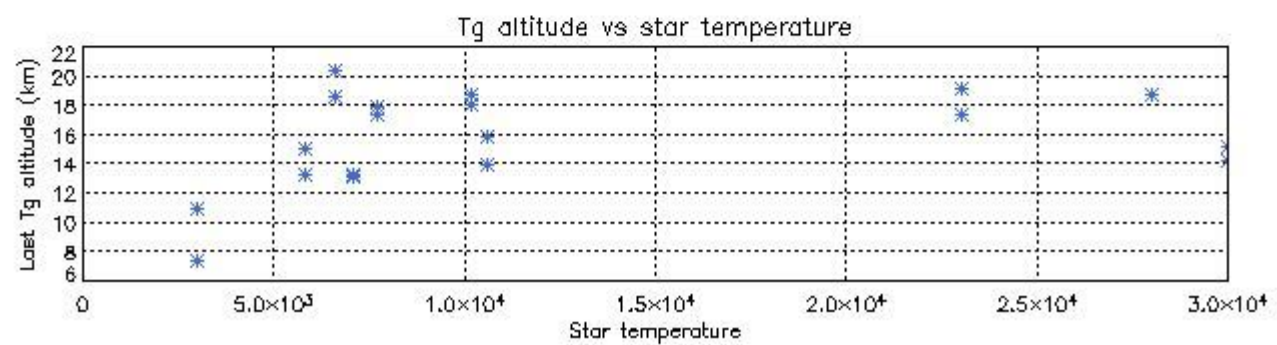
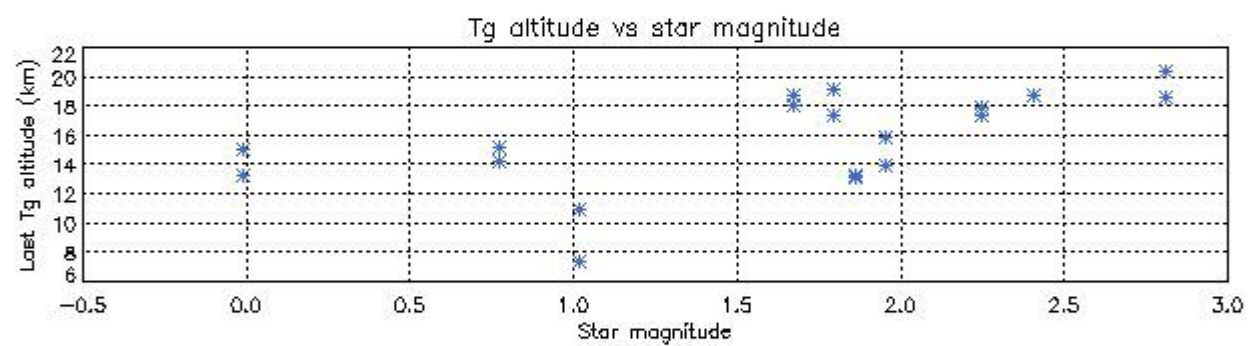
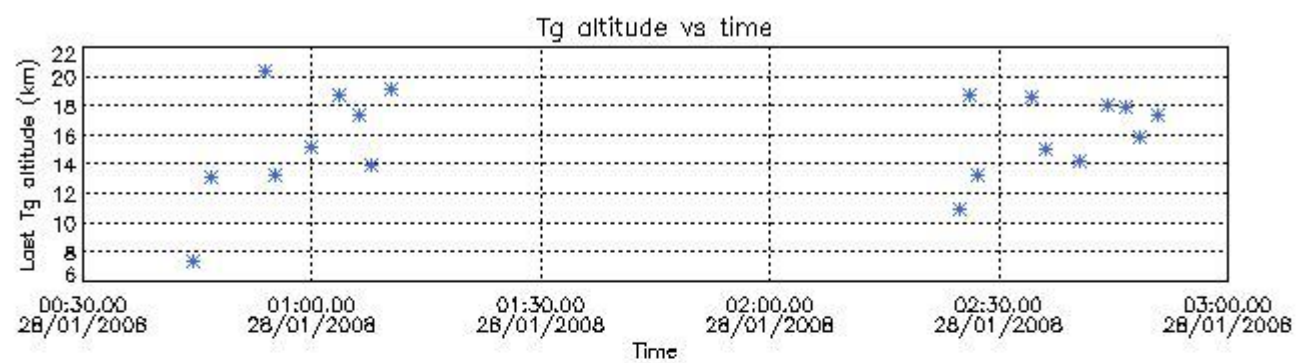
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.693	20.577	NaN
St. deviation:	3.2698	5.3955	NaN
Maximum:	20.351	27.984	NaN
Minimum:	7.4287	4.6611	NaN
Number of data:	19.000	16.000	NaN

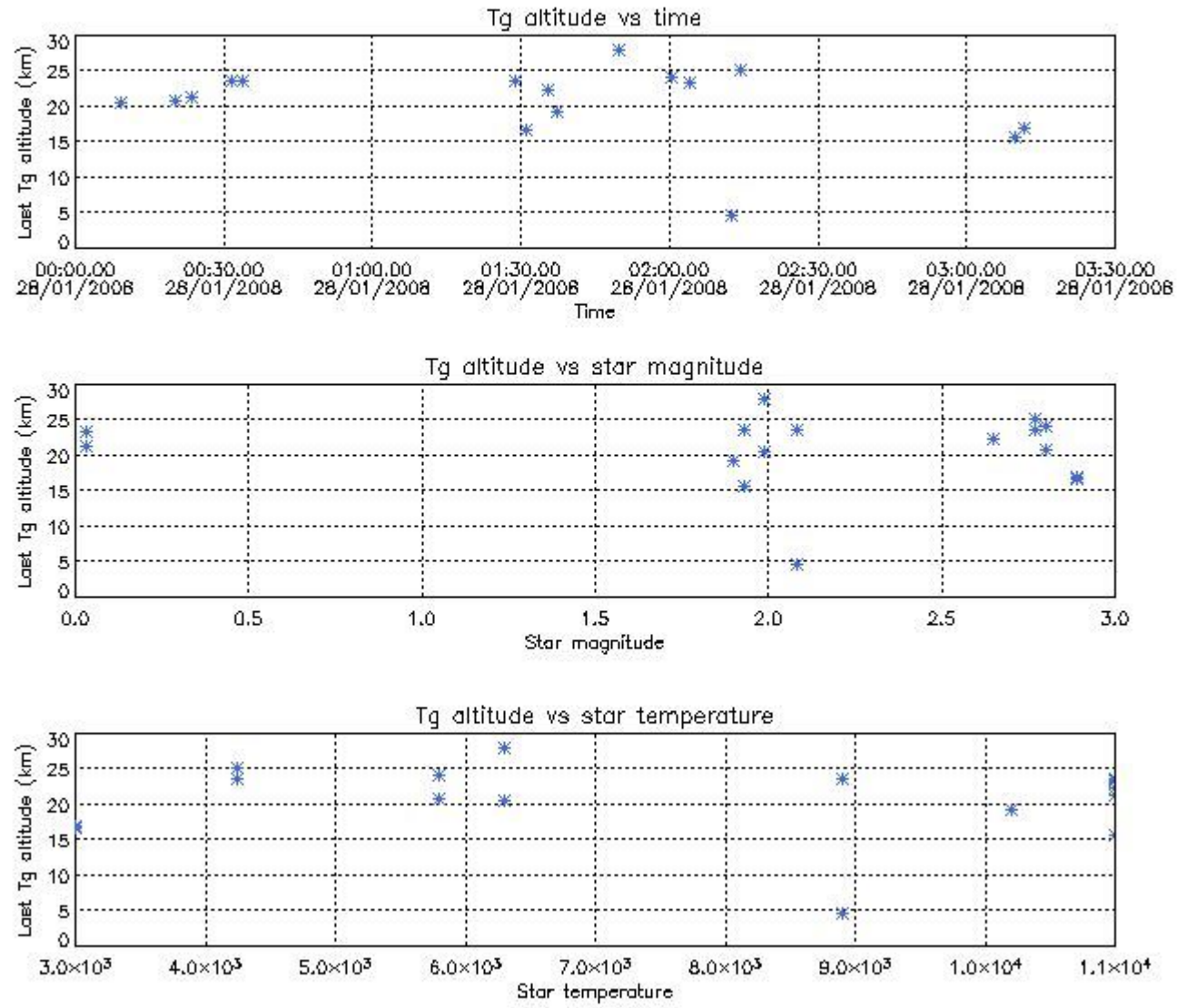
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

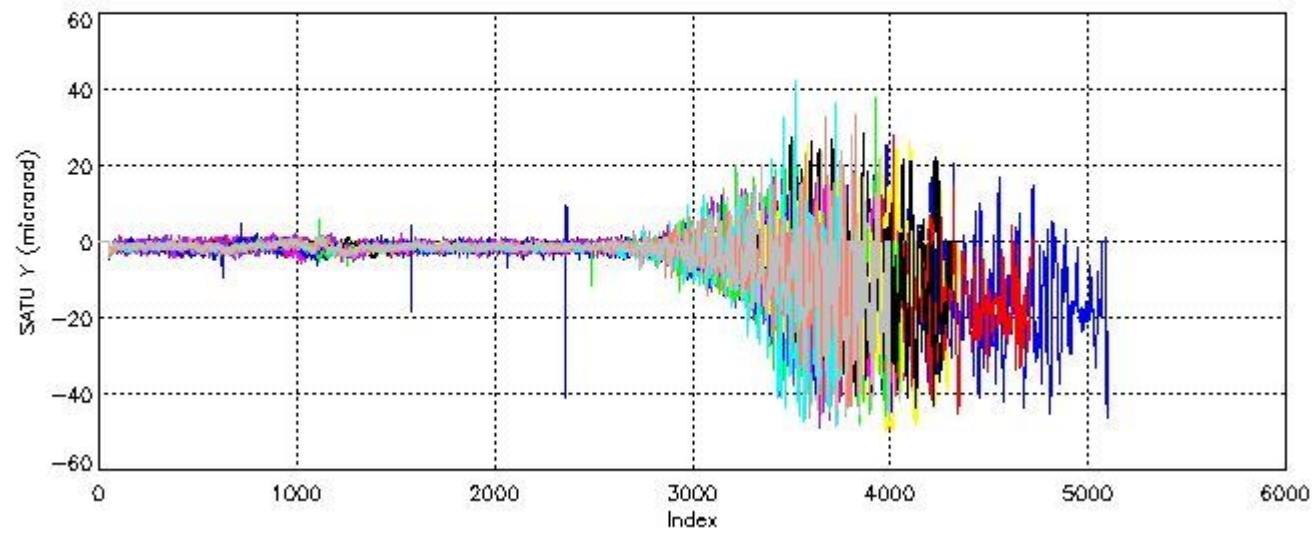
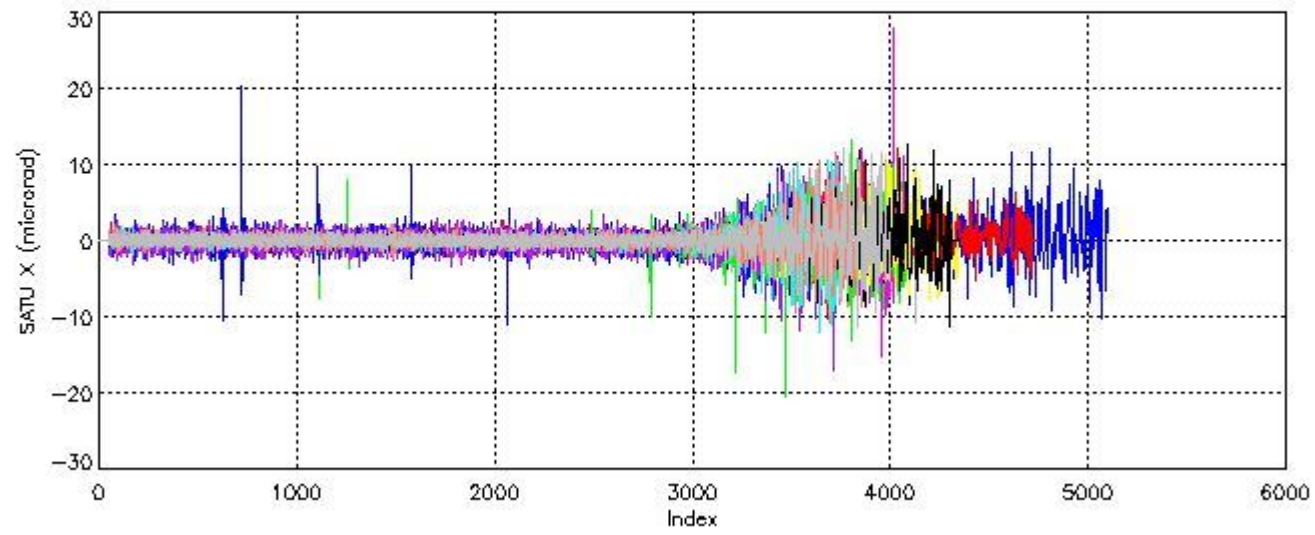


7. Star Acquisition and Tracking Unit (SATU)

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:	0.058994	-1.3331	0.018071	-1.3528
St. deviation:	0.46476	0.70667	0.56780	0.97715
Maximum:	20.200	4.7000	4.3000	2.3000
Minimum:	-10.500	-9.3000	-3.5000	-5.9000

Number of data:	16600.	16600.	13000.	13000.
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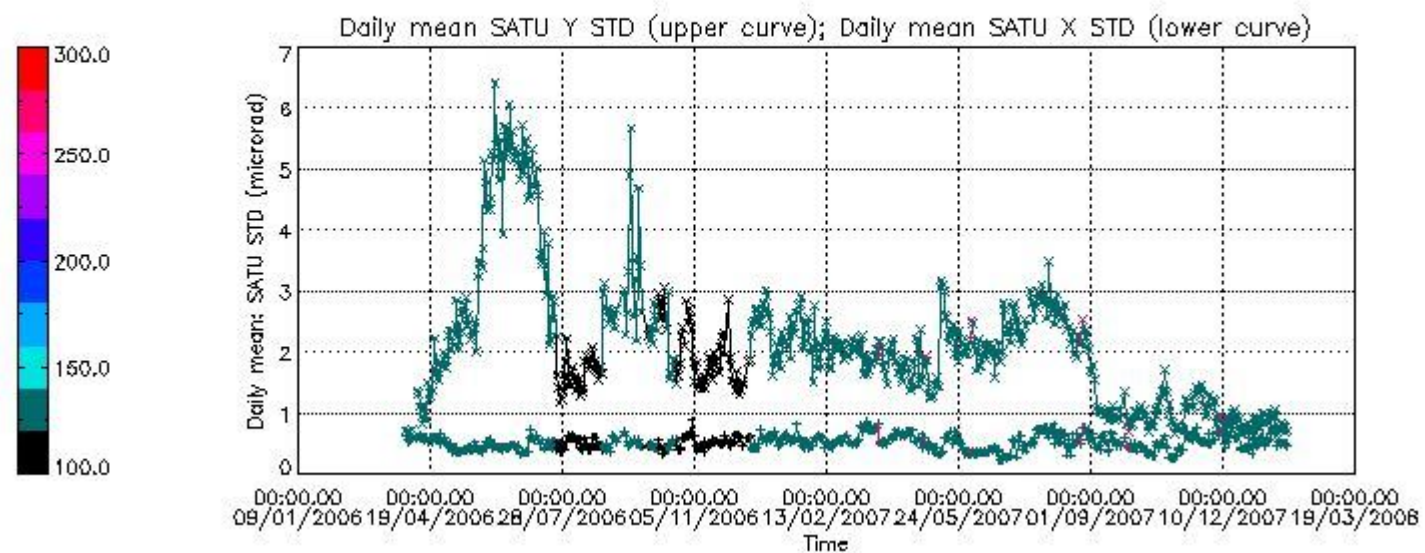
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

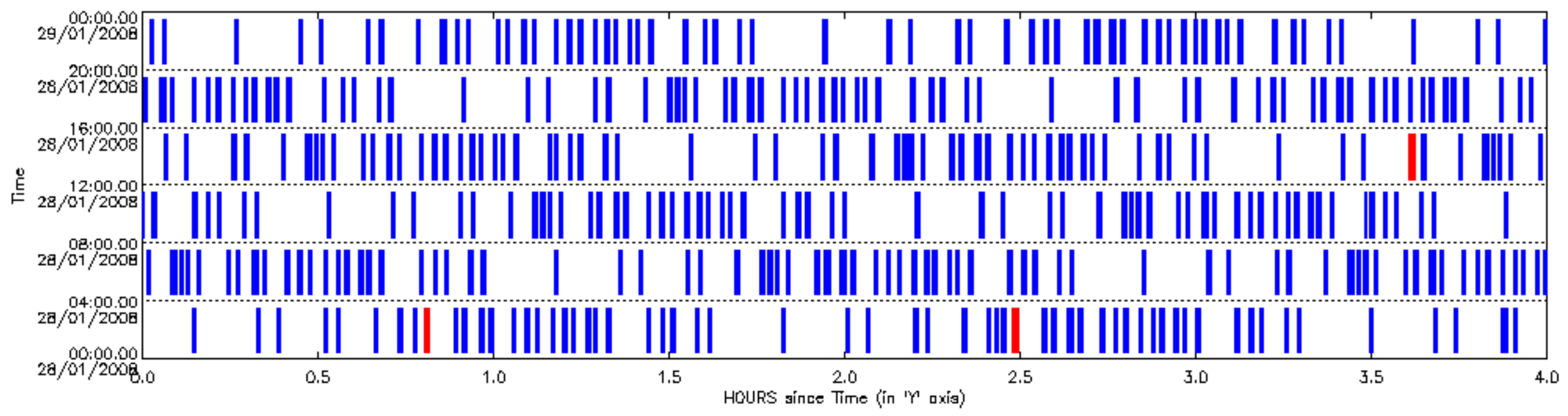
Lower curve: STD of SATU X axis

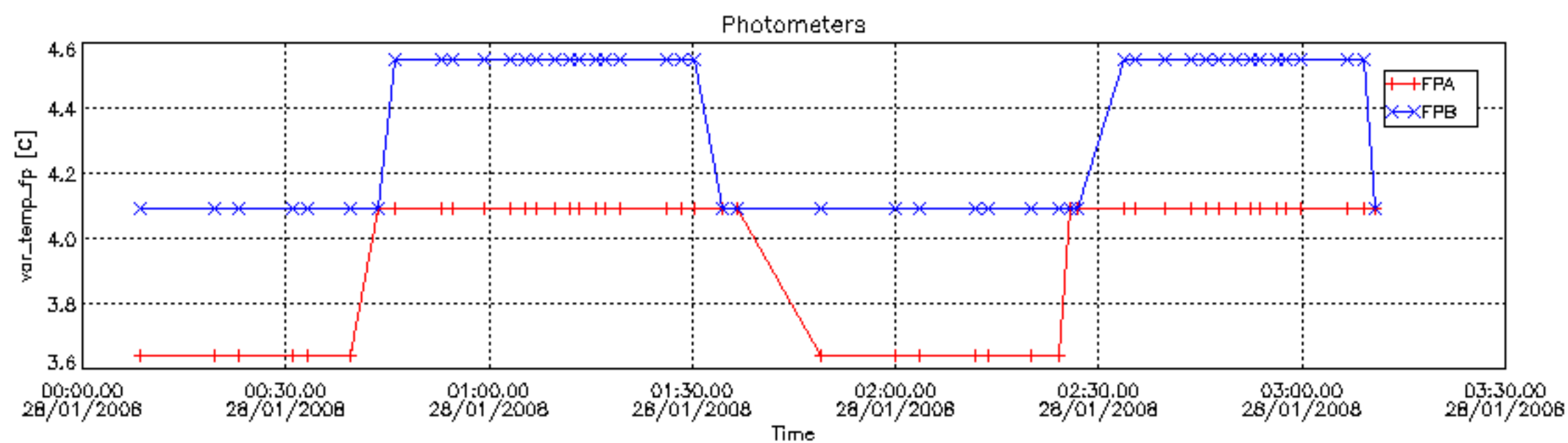
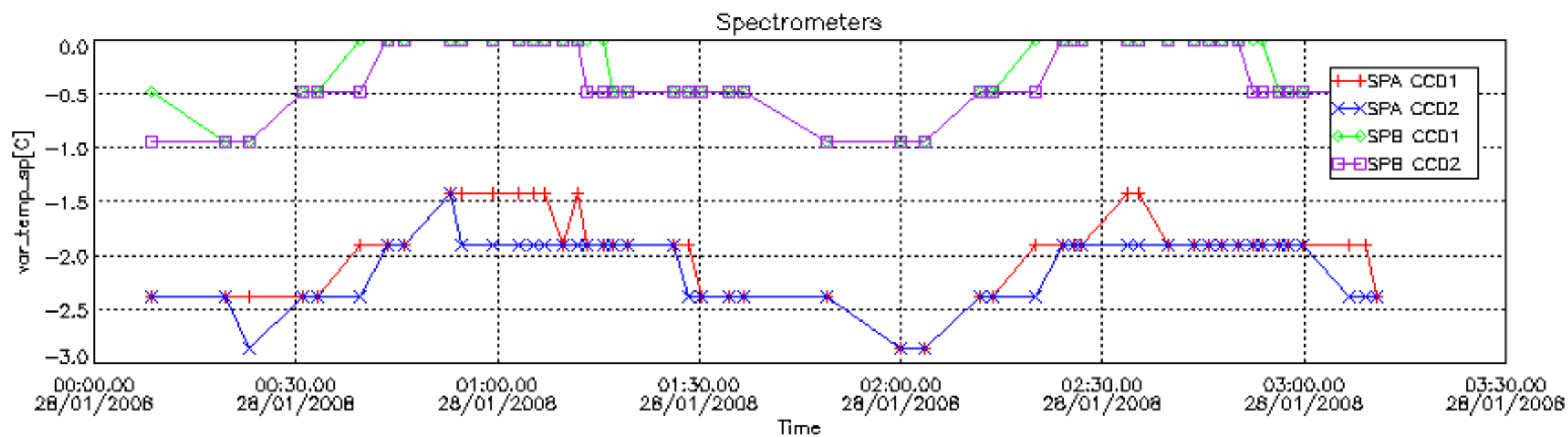


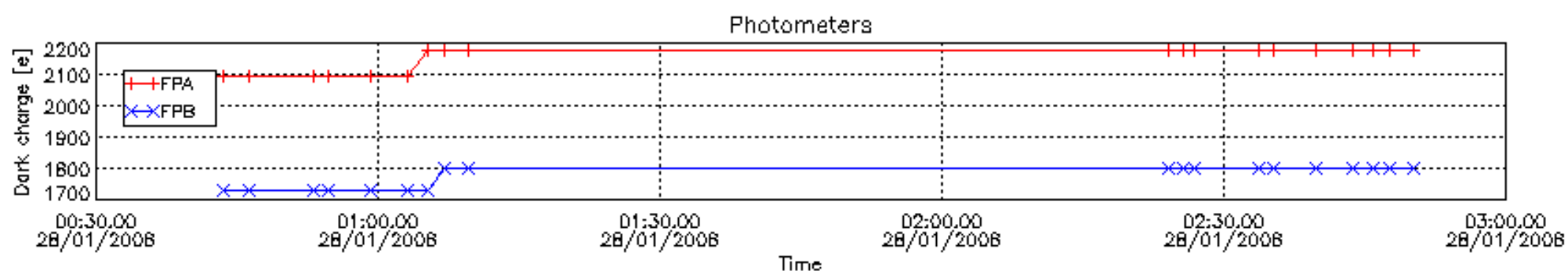
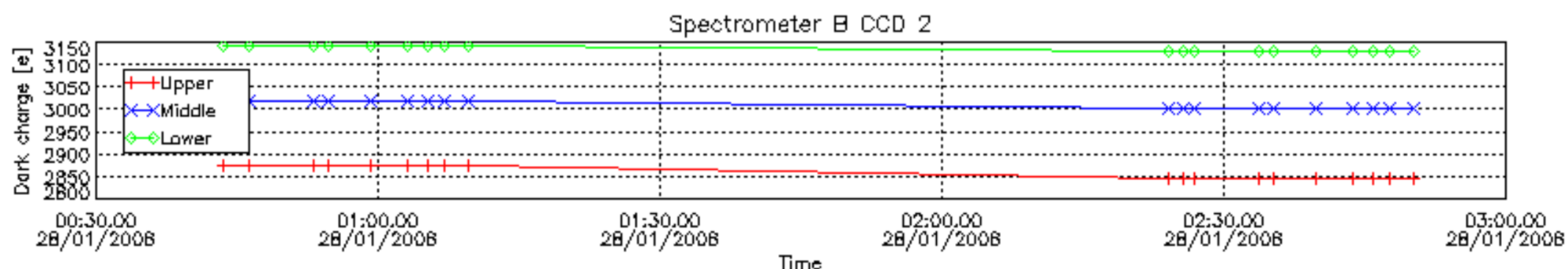
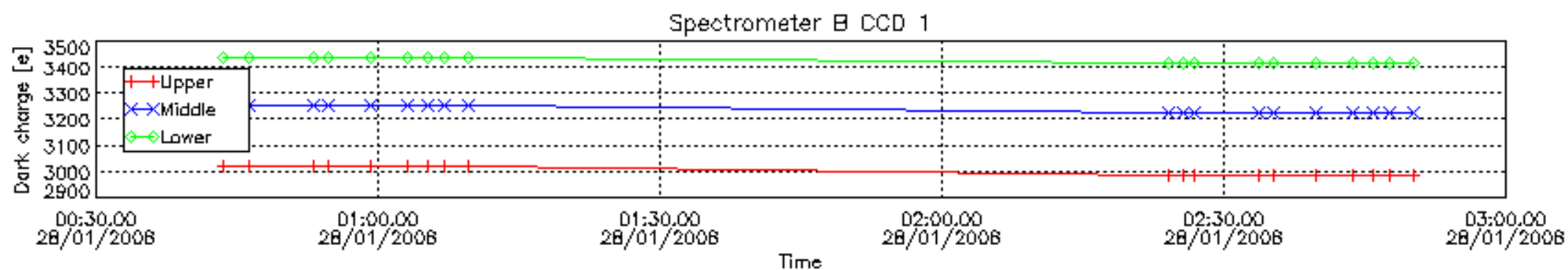
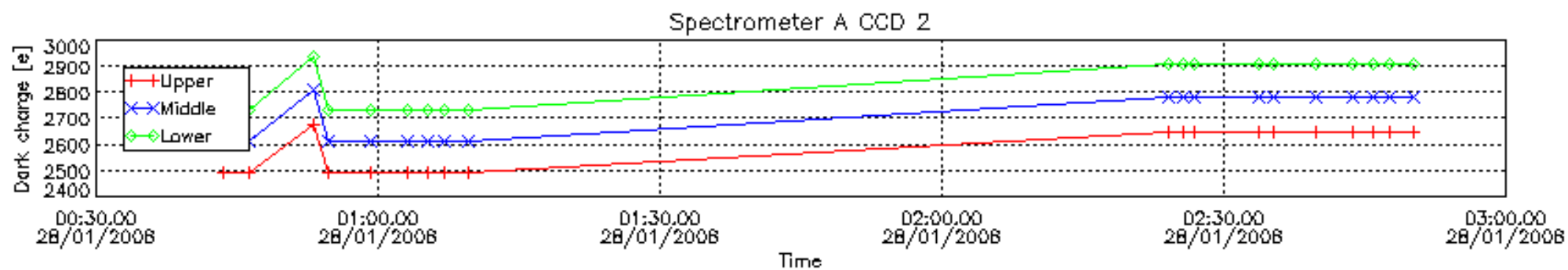
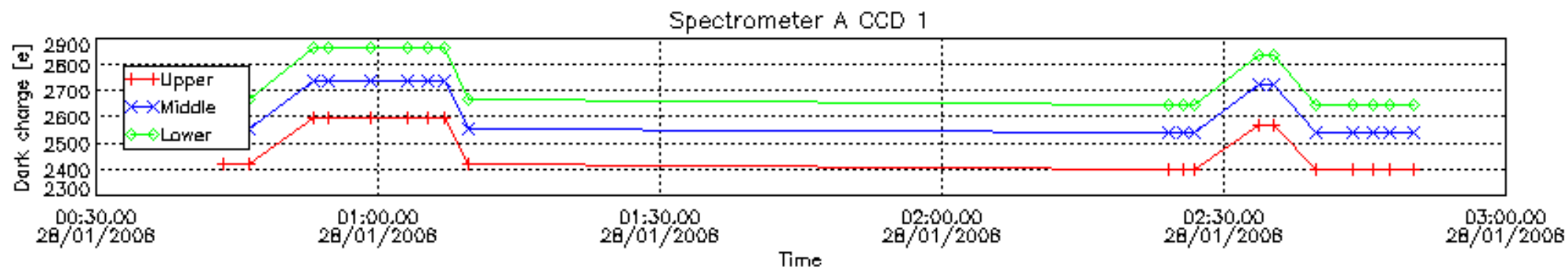
8. Auxiliary Data Files used for the production reported in section 2.4

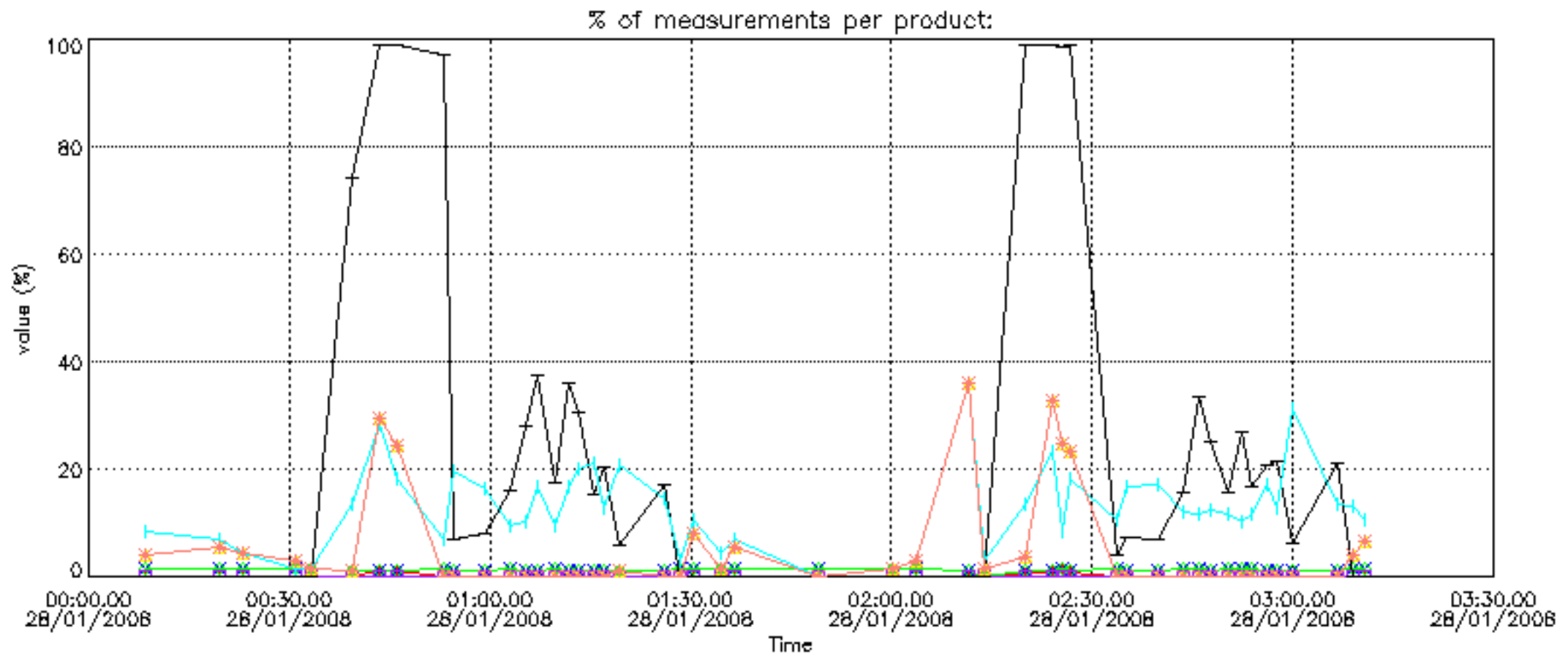
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-JAN-2008 00:08:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	28-JAN-2008 00:08:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-JAN-2008 00:08:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-JAN-2008 00:08:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-JAN-2008 00:08:29
ECMWF_FILE	AUX_ECF_AXNECM20080127_073111_20080127_210000_20080128_090000	1	28-JAN-2008 00:08:29
OPTIONAL_ECMWF_FILE	MISSING	1	28-JAN-2008 00:08:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080127_211443_000057382065_00286_30901_5031.N1	1	28-JAN-2008 00:08:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080127_225540_000057382065_00287_30902_5032.N1	6	28-JAN-2008 00:39:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080128_003637_000054192065_00288_30903_5033.N1	31	28-JAN-2008 02:20:02

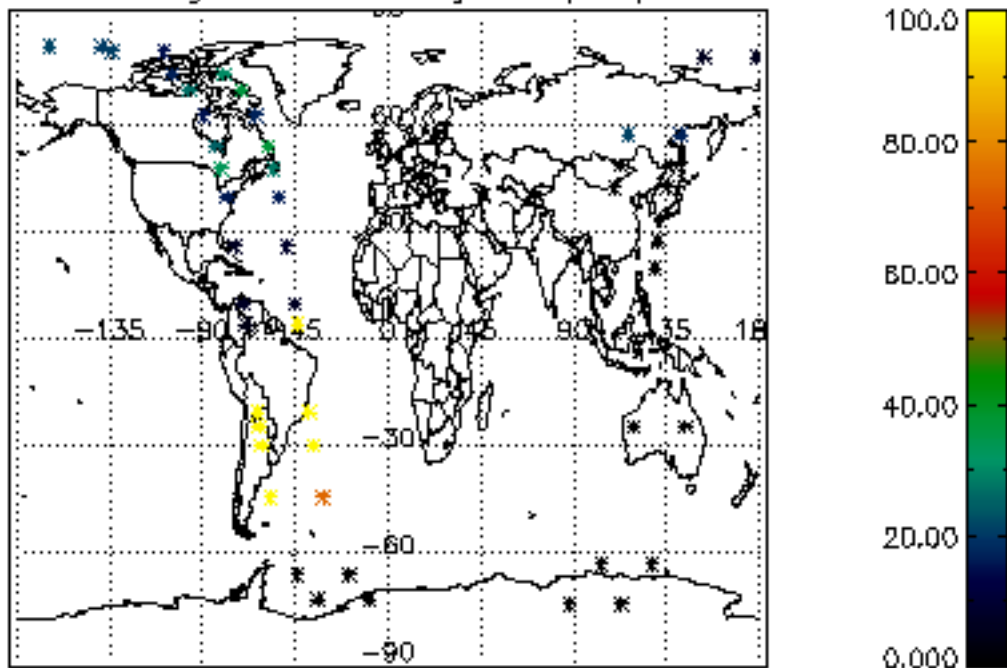




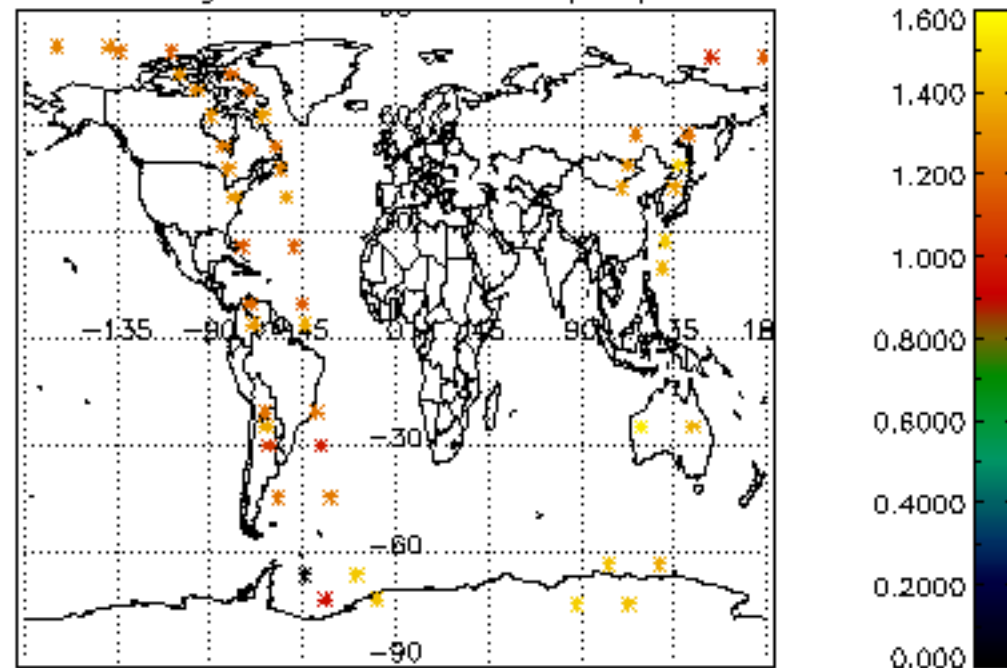




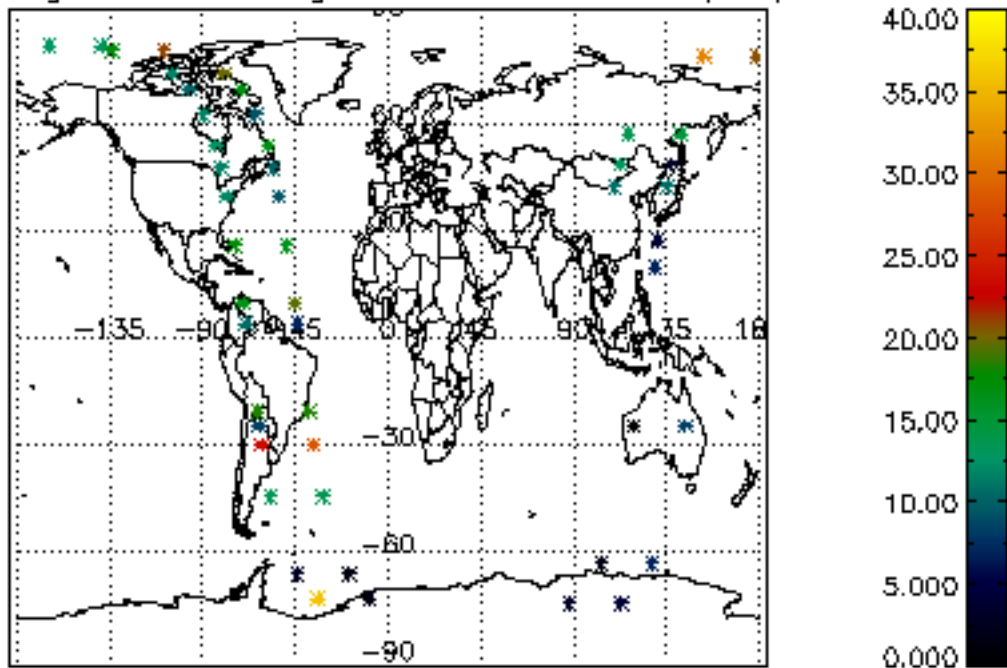
Percentage of cosmic ray hits per profile



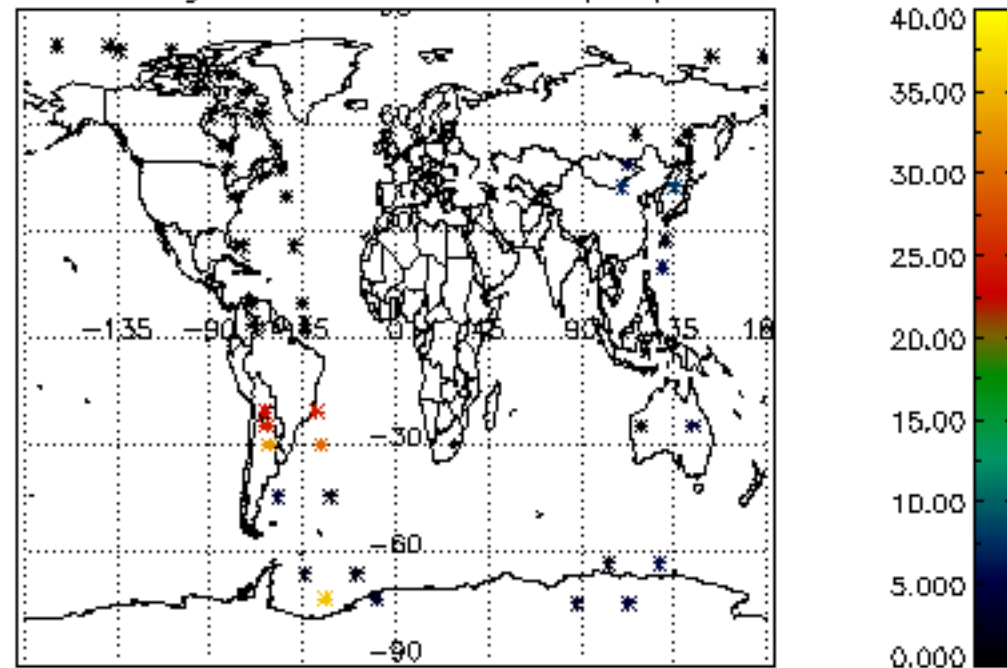
Percentage of datation errors per profile



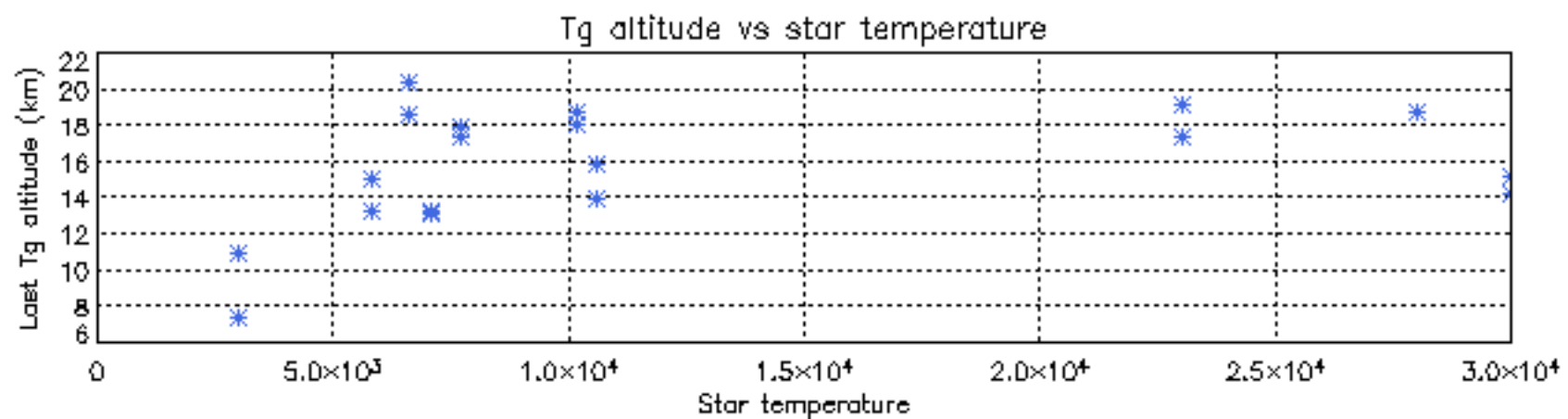
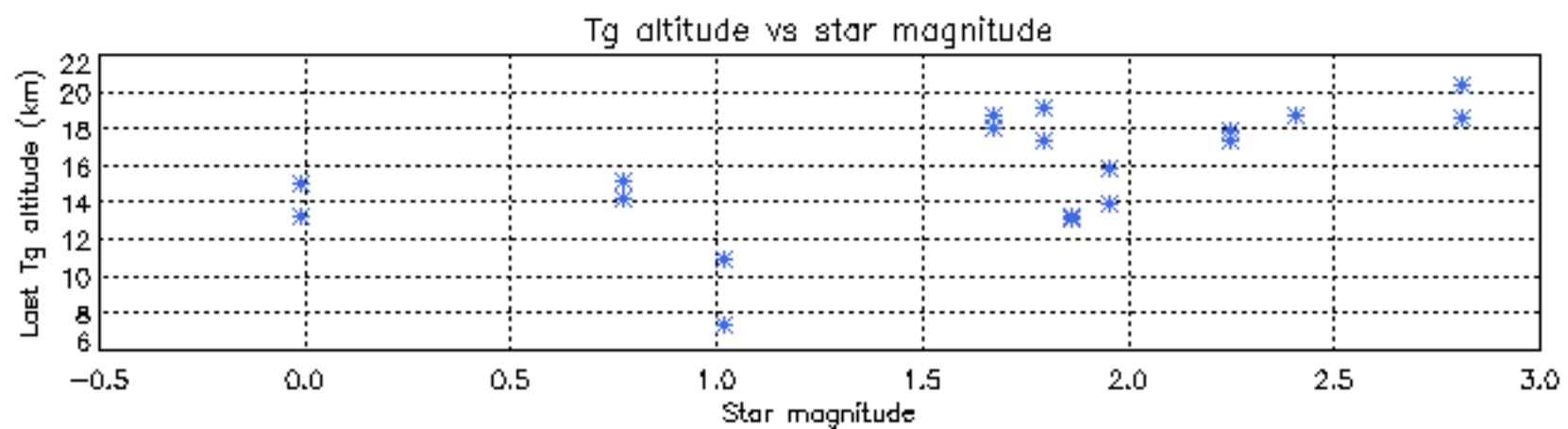
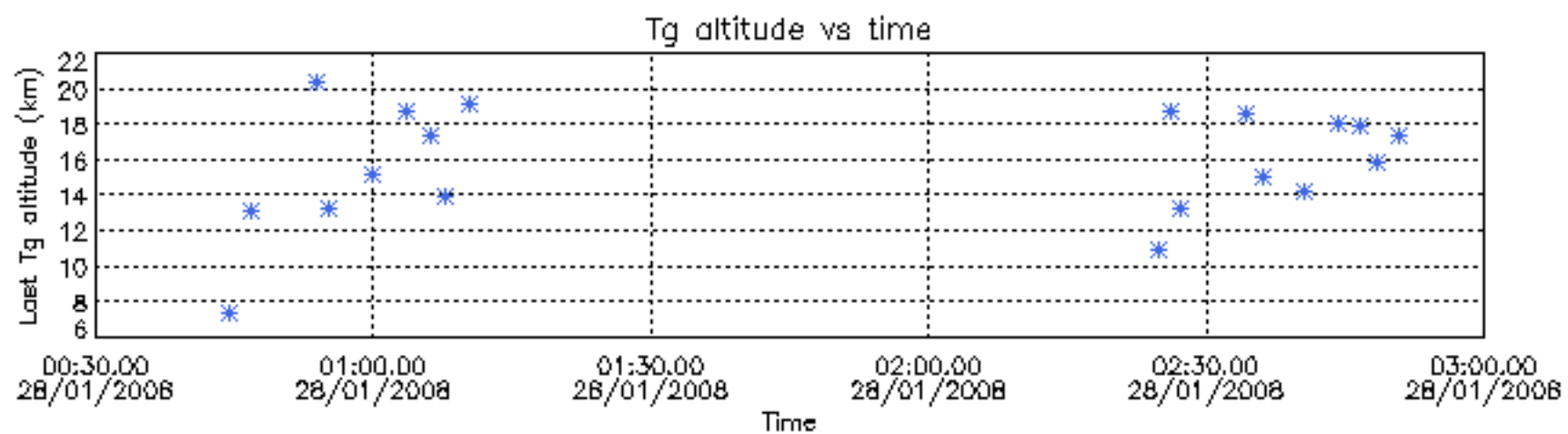
Percentage of star falling outside central band per profile



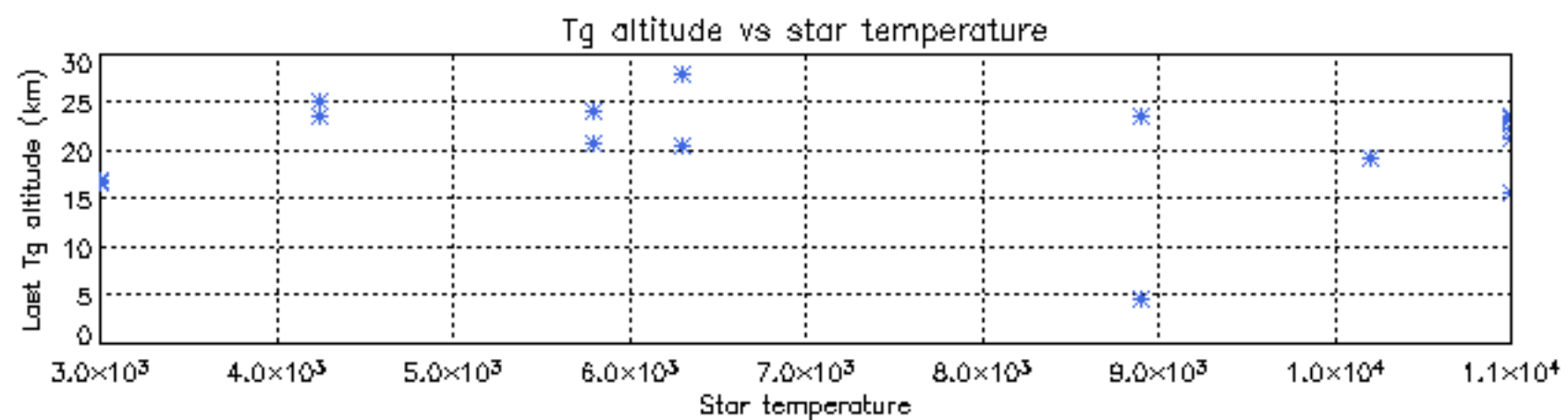
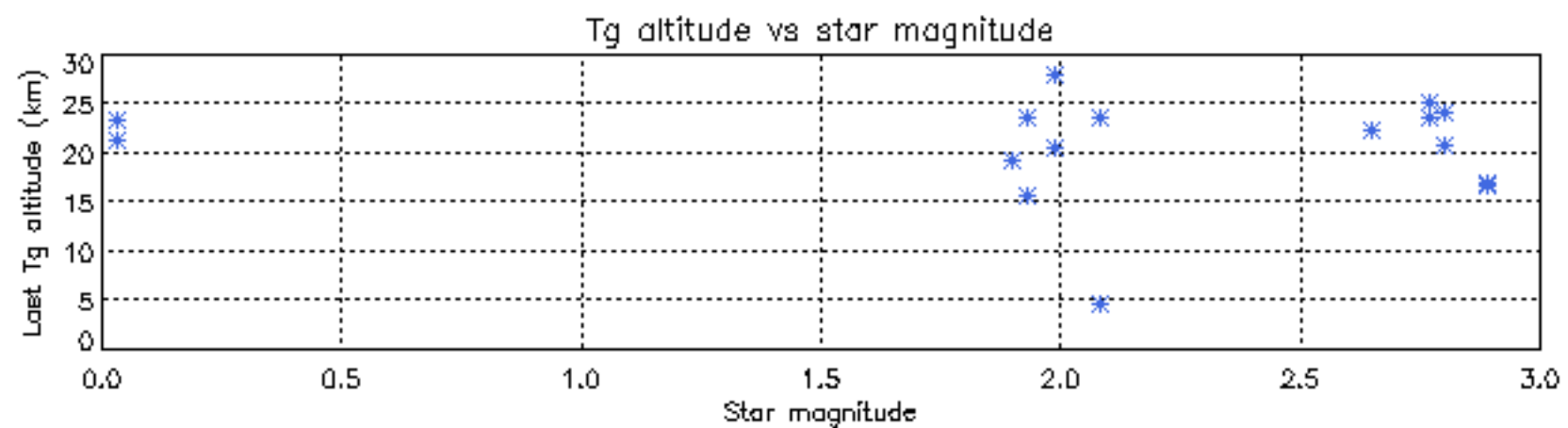
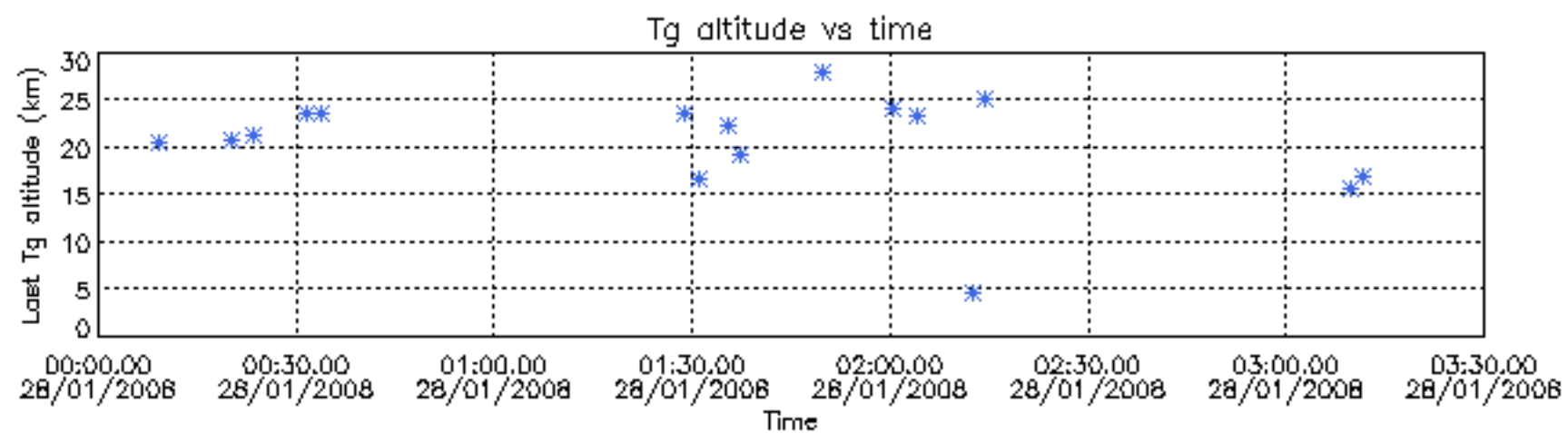
Percentage of saturation errors per profile

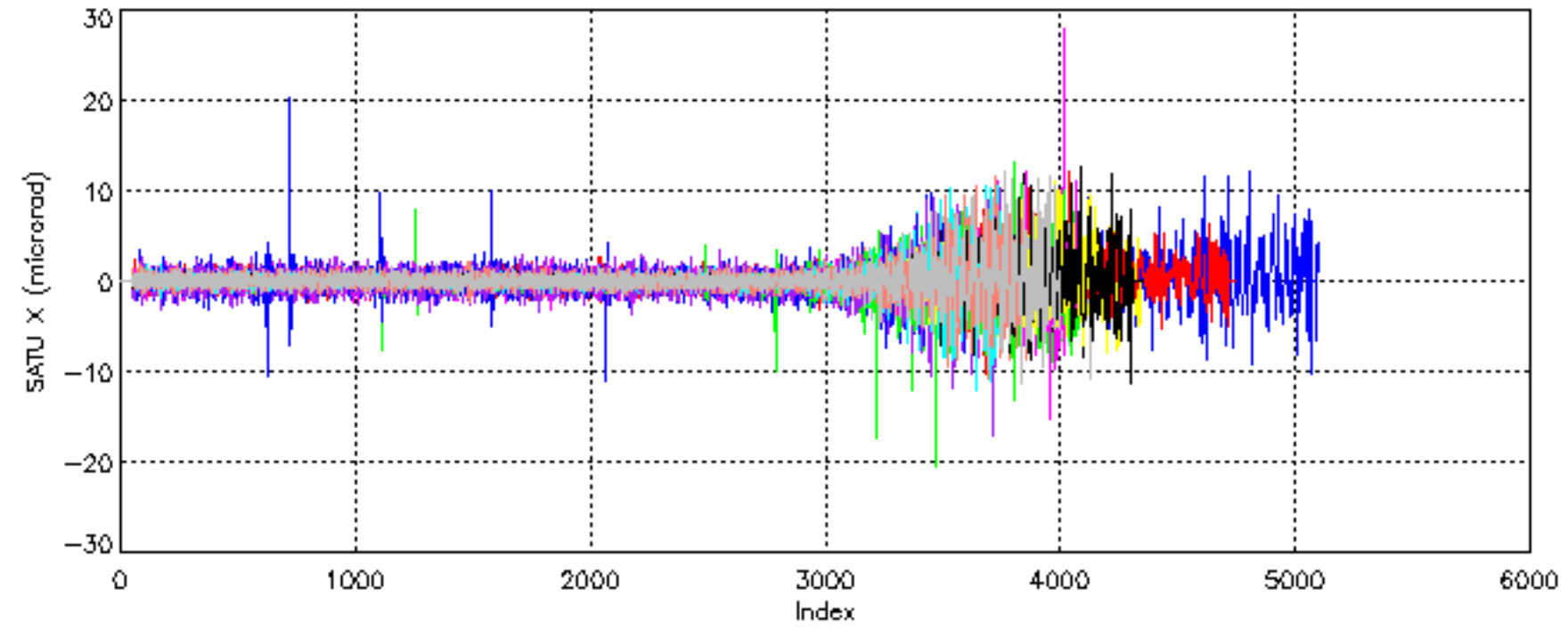


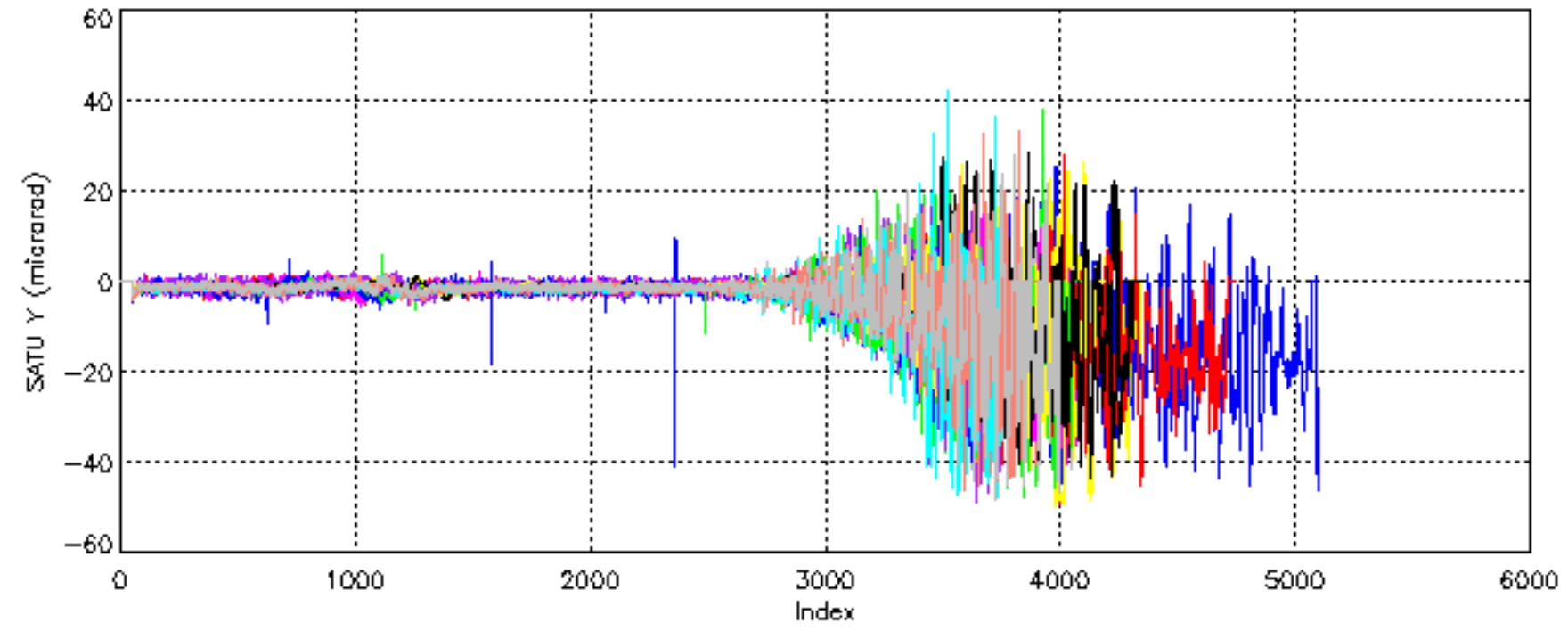
Tangent altitude at which the star is lost

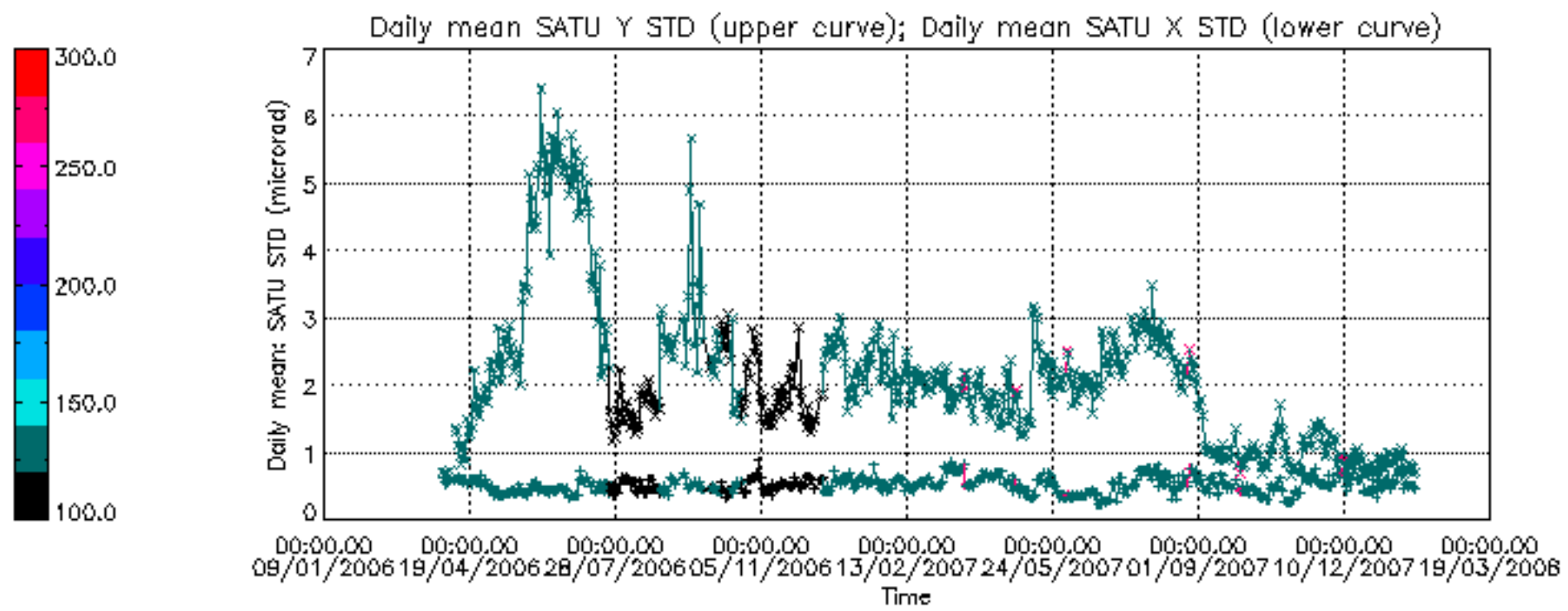


Tangent altitude at which the star is lost









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1; -686.3; 01-JAN-2008 01:29:23; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;30517
 2; -107.2; 01-JAN-2008 01:39:02; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30517
 3; -2.6; 01-JAN-2008 01:40:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30517
 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518
 8; 723.1; 01-JAN-2008 01:52:52; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30518
 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30518
 10; 1319.6; 01-JAN-2008 02:02:49; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30518
 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

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1; -2344.3; 01-JAN-2008 02:42:21; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30518
 2; -2114.2; 01-JAN-2008 02:46:11; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30518
 3; -1988.5; 01-JAN-2008 02:48:17; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30518
 4; -1614.9; 01-JAN-2008 02:54:30; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30518
 5; -1490.9; 01-JAN-2008 02:56:34; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30518
 6; -1147.0; 01-JAN-2008 03:02:18; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30518
 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518
 8; -844.1; 01-JAN-2008 03:07:21; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;30518
 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518
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 12; -106.5; 01-JAN-2008 03:19:39; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30518
 13; -2.2; 01-JAN-2008 03:21:23; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;30518
 14; 227.1; 01-JAN-2008 03:25:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30519
 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519
 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519
 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519
 18; 723.5; 01-JAN-2008 03:33:29; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30519
 19; 977.7; 01-JAN-2008 03:37:43; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;30519
 20; 1319.9; 01-JAN-2008 03:43:25; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30519
 21; 1569.0; 01-JAN-2008 03:47:34; Dark ; 45.5; 47; 2Bet CMA ; 1.98; 28000;occ; 91; 0;30519
 22; 1769.2; 01-JAN-2008 03:50:54; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30519
 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519
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 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519
 26; 2398.0; 01-JAN-2008 04:01:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30519
 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519
 28; 2611.7; 01-JAN-2008 04:04:57; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30519
 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519
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 2; -2114.2; 01-JAN-2008 04:26:47; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30519
 3; -1988.2; 01-JAN-2008 04:28:53; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30519
 4; -1614.7; 01-JAN-2008 04:35:06; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30519
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 7; -1007.2; 01-JAN-2008 04:45:14; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30519
 8; -843.6; 01-JAN-2008 04:47:57; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30519
 9; -685.1; 01-JAN-2008 04:50:36; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;30519
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 12; -193.9; 01-JAN-2008 04:58:47; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30519
 13; -105.9; 01-JAN-2008 05:00:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30519
 14; -2.0; 01-JAN-2008 05:01:59; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;30519
 15; 227.5; 01-JAN-2008 05:05:49; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30520

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16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
17; 546.0; 01-JAN-2008 05:11:07; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;30520
18; 628.4; 01-JAN-2008 05:12:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30520
19; 724.0; 01-JAN-2008 05:14:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30520
20; 977.9; 01-JAN-2008 05:18:19; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;30520
21; 1320.2; 01-JAN-2008 05:24:01; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30520
22; 1569.1; 01-JAN-2008 05:28:10; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;30520
23; 1769.4; 01-JAN-2008 05:31:30; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;30520
24; 1881.5; 01-JAN-2008 05:33:23; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30520
25; 2033.3; 01-JAN-2008 05:35:54; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30520
26; 2200.7; 01-JAN-2008 05:38:42; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30520
27; 2398.0; 01-JAN-2008 05:41:59; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30520
28; 2472.6; 01-JAN-2008 05:43:14; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30520
29; 2612.0; 01-JAN-2008 05:45:33; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30520
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3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
10; -360.0; 01-JAN-2008 06:36:37; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30520
11; -281.6; 01-JAN-2008 06:37:55; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30520
12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
13; -105.3; 01-JAN-2008 06:40:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30520
14; -1.6; 01-JAN-2008 06:42:35; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;30520
15; 228.1; 01-JAN-2008 06:46:25; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30521
16; 398.8; 01-JAN-2008 06:49:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30521
17; 546.3; 01-JAN-2008 06:51:43; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30521
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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21; 1320.4; 01-JAN-2008 07:04:37; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30521
22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
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3; 2033.3; 01-JAN-2008 07:16:30; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;30521
4; 2200.9; 01-JAN-2008 07:19:18; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30521
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6; 2472.7; 01-JAN-2008 07:23:50; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30521
7; 2612.2; 01-JAN-2008 07:26:09; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30521
8; 2693.2; 01-JAN-2008 07:27:30; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30521
9; 3423.5; 01-JAN-2008 07:39:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30521
10; 3691.5; 01-JAN-2008 07:44:08; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30521
11; 3921.9; 01-JAN-2008 07:47:59; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30521
12; 4048.1; 01-JAN-2008 07:50:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30521
13; 4421.7; 01-JAN-2008 07:56:19; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30521
14; 4545.7; 01-JAN-2008 07:58:23; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30521
15; 4889.9; 01-JAN-2008 08:04:07; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30521
16; 5029.3; 01-JAN-2008 08:06:26; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30521
17; 5193.2; 01-JAN-2008 08:09:10; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30521
18; 5352.1; 01-JAN-2008 08:11:49; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;30521
19; 5676.3; 01-JAN-2008 08:17:13; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30521
20; 5754.8; 01-JAN-2008 08:18:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30521
21; 5843.1; 01-JAN-2008 08:20:00; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30521
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28; 6767.5; 02-JAN-2008 09:44:23; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30536
29; 7018.3; 02-JAN-2008 09:48:34; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;30536
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 3; 2032.4; 02-JAN-2008 10:06:04; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30537
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 5; 2396.7; 02-JAN-2008 10:12:09; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30537
 6; 2473.0; 02-JAN-2008 10:13:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30537
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 9; 3689.7; 02-JAN-2008 10:33:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30537
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11; 4050.9; 02-JAN-2008 10:39:43; Bright; 46.5; 130; 23Bet Dra ; 2.80; 5800;occ; 93; 0;30537
12; 4424.2; 02-JAN-2008 10:45:56; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30537
13; 4548.4; 02-JAN-2008 10:48:00; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;30537
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21; 5941.0; 02-JAN-2008 11:11:13; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30537
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27; 6767.9; 02-JAN-2008 11:25:00; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30537
28; 7018.5; 02-JAN-2008 11:29:10; Dark ; 38.0; 2; Alp Car ;-0.74; 7000;occ; 76; 0;30537
29; 7359.6; 02-JAN-2008 11:34:51; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30537
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 3; 1882.5; 02-JAN-2008 11:44:10; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30538
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 5; 2203.5; 02-JAN-2008 11:49:31; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30538
 6; 2396.7; 02-JAN-2008 11:52:44; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30538
 7; 2473.0; 02-JAN-2008 11:54:01; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30538
 8; 2691.8; 02-JAN-2008 11:57:40; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30538
 9; 3423.6; 02-JAN-2008 12:09:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30538
10; 3689.6; 02-JAN-2008 12:14:17; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30538
11; 3922.6; 02-JAN-2008 12:18:10; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;30538
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13; 4424.4; 02-JAN-2008 12:26:32; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30538

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 16; 5033.3; 02-JAN-2008 12:36:41; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30538
 17; 5200.8; 02-JAN-2008 12:39:29; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;30538
 18; 5681.4; 02-JAN-2008 12:47:29; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30538
 19; 5762.1; 02-JAN-2008 12:48:50; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30538
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 22; 6040.0; 02-JAN-2008 12:53:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30538
 23; 6273.2; 02-JAN-2008 12:57:21; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30538
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 26; 6674.4; 02-JAN-2008 13:04:02; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30538
 27; 6768.4; 02-JAN-2008 13:05:36; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30538
 28; 7018.7; 02-JAN-2008 13:09:46; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30538
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 13; 4424.5; 02-JAN-2008 14:07:08; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;30539
 14; 4548.9; 02-JAN-2008 14:09:13; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30539
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 16; 5033.6; 02-JAN-2008 14:17:17; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30539
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 18; 5681.8; 02-JAN-2008 14:28:05; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30539
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 28; 7019.1; 02-JAN-2008 14:50:23; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30539
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 12; 4051.5; 02-JAN-2008 15:41:31; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30540
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 15; 4895.8; 02-JAN-2008 15:55:35; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30540
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 19; 5779.1; 02-JAN-2008 16:10:19; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30540
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 22; 6040.8; 02-JAN-2008 16:14:40; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30540
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 29; 7360.5; 02-JAN-2008 16:36:40; Dark ; 7.5; 108; Alp Col ; 2.65; 15200;occ; 15; 0;30540

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 22; 5943.7; 02-JAN-2008 17:53:39; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30541
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
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13; 3687.4; 03-JAN-2008 21:46:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;30558
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
17; 4552.2; 03-JAN-2008 22:00:39; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30558
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 21; 1326.1; 03-JAN-2008 07:42:05; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30550
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17; 2395.5; 04-JAN-2008 00:45:54; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30560
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26; 4552.6; 04-JAN-2008 01:21:51; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30560
27; 4901.9; 04-JAN-2008 01:27:40; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;30560
28; 5038.9; 04-JAN-2008 01:29:57; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30560
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27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565
28; 6780.1; 04-JAN-2008 10:21:58; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30565
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31; 7387.9; 04-JAN-2008 10:32:06; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30565
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13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
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14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30568
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24; 1577.3; 05-JAN-2008 06:43:02; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30578
25; 1777.5; 05-JAN-2008 06:46:23; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30578
26; 1885.7; 05-JAN-2008 06:48:11; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30578
27; 2031.4; 05-JAN-2008 06:50:36; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30578
28; 2268.3; 05-JAN-2008 06:54:33; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30578
29; 2395.2; 05-JAN-2008 06:56:40; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30578
30; 2475.5; 05-JAN-2008 06:58:01; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30578
31; 2555.6; 05-JAN-2008 06:59:21; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;30578
32; 2689.8; 05-JAN-2008 07:01:35; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30578
33; 3423.8; 05-JAN-2008 07:13:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30578
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9; 2394.9; 05-JAN-2008 20:21:27; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30586
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11; 2554.0; 05-JAN-2008 20:24:07; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30586
12; 2689.5; 05-JAN-2008 20:26:22; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30586

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 16; 4058.9; 05-JAN-2008 20:49:11; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30586
 17; 4431.8; 05-JAN-2008 20:55:24; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30586
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 19; 4910.6; 05-JAN-2008 21:03:23; Bright; 54.5; 102; 24Alp Ser ; 2.60; 4250;occ; 109; 0;30586

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 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587
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 13; 994.6; 05-JAN-2008 21:38:43; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30587
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 18; 1886.4; 05-JAN-2008 21:53:35; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30587
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 21; 2394.8; 05-JAN-2008 22:02:03; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30587
 22; 2476.2; 05-JAN-2008 22:03:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30587
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 26; 3684.0; 05-JAN-2008 22:23:32; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30587
 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587
 28; 4058.9; 05-JAN-2008 22:29:47; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30587
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 30; 4610.0; 05-JAN-2008 22:38:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30587
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 32; 5046.5; 05-JAN-2008 22:46:15; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30587
 33; 5372.6; 05-JAN-2008 22:51:41; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30587

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 3; -1978.3; 05-JAN-2008 07:24:23; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30578
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 6; -1128.0; 05-JAN-2008 07:38:33; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30578
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 9; -717.8; 05-JAN-2008 07:45:23; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30578
 10; -608.1; 05-JAN-2008 07:47:13; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30578
 11; -340.9; 05-JAN-2008 07:51:40; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30578
 12; -255.2; 05-JAN-2008 07:53:06; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30578
 13; -165.8; 05-JAN-2008 07:54:35; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;30578
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 3; 567.4; 05-JAN-2008 09:47:24; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30580
 4; 660.2; 05-JAN-2008 09:48:57; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30580
 5; 750.0; 05-JAN-2008 09:50:27; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30580
 6; 993.1; 05-JAN-2008 09:54:30; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30580
 7; 1192.4; 05-JAN-2008 09:57:49; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30580
 8; 1355.7; 05-JAN-2008 10:00:33; Dark ; 27.0; 23; 21Eps CMA ; 1.50; 26000;occ; 54; 0;30580
 9; 1577.5; 05-JAN-2008 10:04:14; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30580
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 5; 2395.1; 05-JAN-2008 10:17:52; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30580
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 12; 4057.9; 05-JAN-2008 10:45:35; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30580
 13; 4431.0; 05-JAN-2008 10:51:48; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;30580
 14; 4608.9; 05-JAN-2008 10:54:46; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30580
 15; 4908.5; 05-JAN-2008 10:59:45; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;30580
 16; 5044.6; 05-JAN-2008 11:02:02; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30580
 17; 5221.7; 05-JAN-2008 11:04:59; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;30580
 18; 5318.8; 05-JAN-2008 11:06:36; Bright; 43.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 87; 0;30580
 19; 5428.4; 05-JAN-2008 11:08:25; Dark ; 37.5; 158; 6Pi Sco ; 2.91; 28000;occ; 75; 0;30580
 20; 5695.6; 05-JAN-2008 11:12:52; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30580
 21; 5781.7; 05-JAN-2008 11:14:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30580
 22; 5871.0; 05-JAN-2008 11:15:48; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30580
 23; 5968.9; 05-JAN-2008 11:17:26; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30580
 24; 6054.1; 05-JAN-2008 11:18:51; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;30580
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 31; 7228.7; 05-JAN-2008 11:38:26; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;30580
 32; 7391.8; 05-JAN-2008 11:41:09; Dark ; 27.0; 23; 21Eps CMa ; 1.50; 26000;occ; 54; 0;30580
 33; 7613.6; 05-JAN-2008 11:44:50; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;30580

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 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581
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 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581
 10; 3423.8; 05-JAN-2008 12:15:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30581
 11; 3684.9; 05-JAN-2008 12:19:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30581
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 3; -1604.7; 05-JAN-2008 12:32:24; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30581
 4; -1426.9; 05-JAN-2008 12:35:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30581
 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581
 7; -813.6; 05-JAN-2008 12:45:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30581
 8; -716.7; 05-JAN-2008 12:47:12; Bright; 18.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 36; 0;30581

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 4; -253.7; 05-JAN-2008 12:54:55; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30581
 5; -164.3; 05-JAN-2008 12:56:24; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30581
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7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
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27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610
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9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610
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12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
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27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610
28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610
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12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611
14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611
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16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
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19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
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 5; 2031.5; 07-JAN-2008 15:50:58; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;30612
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12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612
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4; -137.6; 09-JAN-2008 00:46:48; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;30631
5; 37.0; 09-JAN-2008 00:49:42; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;30632
6; 286.2; 09-JAN-2008 00:53:51; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30632
7; 430.9; 09-JAN-2008 00:56:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30632

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9; 686.3; 09-JAN-2008 01:00:31; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30632
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21; 2680.3; 09-JAN-2008 01:33:45; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30632
22; 3424.3; 09-JAN-2008 01:46:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30632
23; 3678.3; 09-JAN-2008 01:50:23; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;30632
24; 3924.6; 09-JAN-2008 01:54:30; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30632
25; 4065.7; 09-JAN-2008 01:56:51; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30632
26; 4439.0; 09-JAN-2008 02:03:04; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30632
27; 4619.1; 09-JAN-2008 02:06:04; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30632
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17; 1891.4; 09-JAN-2008 03:01:12; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30633
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19; 2268.3; 09-JAN-2008 03:07:29; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30633
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21; 2481.6; 09-JAN-2008 03:11:03; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30633
22; 2680.1; 09-JAN-2008 03:14:21; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;30633
23; 3424.4; 09-JAN-2008 03:26:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30633

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6; -975.0; 09-JAN-2008 03:54:02; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30633
7; -886.0; 09-JAN-2008 03:55:31; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30633
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12; 37.7; 09-JAN-2008 04:10:55; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;30634
13; 287.4; 09-JAN-2008 04:15:04; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;30634
14; 431.4; 09-JAN-2008 04:17:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30634
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16; 687.4; 09-JAN-2008 04:21:44; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30634
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21; 1595.7; 09-JAN-2008 04:36:53; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;30634
22; 1786.7; 09-JAN-2008 04:40:04; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30634

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 24; 2032.0; 09-JAN-2008 04:44:09; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;30634
 25; 2268.5; 09-JAN-2008 04:48:05; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30634
 26; 2395.9; 09-JAN-2008 04:50:13; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30634
 27; 2481.7; 09-JAN-2008 04:51:39; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30634
 28; 2680.0; 09-JAN-2008 04:54:57; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30634
 29; 3424.4; 09-JAN-2008 05:07:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30634
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 3; -1970.0; 09-JAN-2008 05:18:03; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;30634
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 6; -974.7; 09-JAN-2008 05:34:38; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 0;30634
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 9; -319.1; 09-JAN-2008 05:45:34; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30634
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 24; 2032.1; 09-JAN-2008 06:24:45; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30635
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 26; 2395.9; 09-JAN-2008 06:30:49; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30635
 27; 2481.8; 09-JAN-2008 06:32:15; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30635
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 13; 3424.3; 09-JAN-2008 21:53:21; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30644
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 19; 5723.8; 10-JAN-2008 08:35:16; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30650
 20; 5818.6; 10-JAN-2008 08:36:51; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;30650
 21; 5909.0; 10-JAN-2008 08:38:21; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30650
 22; 6294.0; 10-JAN-2008 08:44:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30650
 23; 6531.7; 10-JAN-2008 08:48:44; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30650
 24; 6627.5; 10-JAN-2008 08:50:19; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30650
 25; 6731.7; 10-JAN-2008 08:52:04; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30650
 26; 6814.4; 10-JAN-2008 08:53:26; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30650
 27; 7045.1; 10-JAN-2008 08:57:17; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;30650
 28; 7250.6; 10-JAN-2008 09:00:43; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30650
 29; 7408.7; 10-JAN-2008 09:03:21; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;30650
 30; 7496.2; 10-JAN-2008 09:04:48; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;30650
 31; 7633.9; 10-JAN-2008 09:07:06; Dark ; 55.0; 1; 9Alp CMa ;-1.44; 11000;occ; 110; 0;30650
 32; 7782.1; 10-JAN-2008 09:09:34; Dark ; 37.0; 56; 53Kap Ori ; 2.07; 30000;occ; 74; 0;30650

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 7; 2677.7; 10-JAN-2008 09:25:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;30651
 8; 3424.5; 10-JAN-2008 09:37:32; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30651
 9; 3675.7; 10-JAN-2008 09:41:44; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;30651
 10; 3924.6; 10-JAN-2008 09:45:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;30651
 11; 4068.1; 10-JAN-2008 09:48:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30651

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 13; 4622.9; 10-JAN-2008 09:57:31; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30651
 14; 5067.1; 10-JAN-2008 10:04:55; Bright; 45.5; 120; 1Del Oph ; 2.73; 3200;occ; 91; 0;30651
 15; 5154.8; 10-JAN-2008 10:06:23; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30651
 16; 5344.2; 10-JAN-2008 10:09:32; Dark ; 39.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 79; 0;30651
 17; 5454.9; 10-JAN-2008 10:11:23; Dark ; 38.5; 158; 6Pi Sco ; 2.91; 28000;occ; 77; 0;30651
 18; 5724.2; 10-JAN-2008 10:15:52; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30651
 19; 5819.2; 10-JAN-2008 10:17:27; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30651
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 21; 6294.2; 10-JAN-2008 10:25:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30651
 22; 6532.2; 10-JAN-2008 10:29:20; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;30651
 23; 6627.9; 10-JAN-2008 10:30:56; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30651
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 26; 7045.2; 10-JAN-2008 10:37:53; Dark ; 51.5; 2; Alp Car ;-0.74; 7000;occ; 103; 0;30651
 27; 7250.9; 10-JAN-2008 10:41:19; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;30651
 28; 7408.8; 10-JAN-2008 10:43:57; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30651
 29; 7496.4; 10-JAN-2008 10:45:24; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;30651
 30; 7634.0; 10-JAN-2008 10:47:42; Dark ; 44.0; 1; 9Alp CMA ;-1.44; 11000;occ; 88; 0;30651

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 3; 1893.8; 10-JAN-2008 10:52:38; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30652
 4; 2032.8; 10-JAN-2008 10:54:57; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30652
 5; 2269.0; 10-JAN-2008 10:58:53; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30652
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 7; 2484.4; 10-JAN-2008 11:02:28; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30652
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 9; 3424.5; 10-JAN-2008 11:18:08; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30652
 10; 3675.6; 10-JAN-2008 11:22:19; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;30652
 11; 3924.4; 10-JAN-2008 11:26:28; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;30652
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 13; 4442.0; 10-JAN-2008 11:35:06; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30652
 14; 4623.1; 10-JAN-2008 11:38:07; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;30652
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 16; 5155.1; 10-JAN-2008 11:46:59; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30652
 17; 5344.5; 10-JAN-2008 11:50:08; Dark ; 40.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 80; 0;30652
 18; 5455.3; 10-JAN-2008 11:51:59; Dark ; 38.5; 158; 6Pi Sco ; 2.91; 28000;occ; 77; 0;30652
 19; 5724.5; 10-JAN-2008 11:56:28; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30652
 20; 5819.8; 10-JAN-2008 11:58:04; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30652
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 22; 6081.0; 10-JAN-2008 12:02:25; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;30652
 23; 6294.5; 10-JAN-2008 12:05:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30652
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 27; 6815.1; 10-JAN-2008 12:14:39; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;30652
 28; 7045.4; 10-JAN-2008 12:18:29; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;30652
 29; 7251.2; 10-JAN-2008 12:21:55; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;30652
 30; 7409.1; 10-JAN-2008 12:24:33; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30652
 31; 7496.6; 10-JAN-2008 12:26:00; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;30652
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 3; 1893.9; 10-JAN-2008 12:33:14; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;30653
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 5; 2269.0; 10-JAN-2008 12:39:29; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30653
 6; 2397.0; 10-JAN-2008 12:41:37; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30653
 7; 2484.6; 10-JAN-2008 12:43:04; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30653
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 11; 3924.5; 10-JAN-2008 13:07:04; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30653
 12; 4068.4; 10-JAN-2008 13:09:28; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;30653
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 14; 4623.4; 10-JAN-2008 13:18:43; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;30653
 15; 5067.9; 10-JAN-2008 13:26:08; Bright; 54.0; 120; 1Del Oph ; 2.73; 3200;occ; 108; 0;30653

16; 5155.4; 10-JAN-2008 13:27:35; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30653
 17; 5345.0; 10-JAN-2008 13:30:45; Dark ; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;30653
 18; 5455.8; 10-JAN-2008 13:32:35; Dark ; 37.0; 158; 6Pi Sco ; 2.91; 28000;occ; 74; 0;30653
 19; 5725.0; 10-JAN-2008 13:37:05; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30653
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 21; 5910.7; 10-JAN-2008 13:40:10; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;30653
 22; 6081.4; 10-JAN-2008 13:43:01; Dark ; 39.0; 4; Alp1Cen ;-0.01; 5800;occ; 78; 0;30653
 23; 6294.8; 10-JAN-2008 13:46:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30653
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 25; 6628.6; 10-JAN-2008 13:52:08; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30653
 26; 6732.9; 10-JAN-2008 13:53:53; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30653
 27; 6815.6; 10-JAN-2008 13:55:15; Dark ; 38.0; 41; Eps Car ; 1.86; 4100;occ; 76; 0;30653
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 31; 7496.7; 10-JAN-2008 14:06:36; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;30653

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 7; 2484.8; 10-JAN-2008 14:23:40; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30654
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 12; 4068.6; 10-JAN-2008 14:50:04; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30654
 13; 4442.4; 10-JAN-2008 14:56:18; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30654
 14; 4623.6; 10-JAN-2008 14:59:19; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30654
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 16; 5155.7; 10-JAN-2008 15:08:11; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;30654
 17; 5345.5; 10-JAN-2008 15:11:21; Dark ; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;30654
 18; 5456.3; 10-JAN-2008 15:13:12; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30654
 19; 5725.6; 10-JAN-2008 15:17:41; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30654
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 22; 6081.8; 10-JAN-2008 15:23:37; Dark ; 50.0; 4; Alp1Cen ;-0.01; 5800;occ; 100; 0;30654
 23; 6295.1; 10-JAN-2008 15:27:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30654
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 25; 6629.0; 10-JAN-2008 15:32:45; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;30654
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 27; 6816.0; 10-JAN-2008 15:35:52; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30654
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 29; 7251.7; 10-JAN-2008 15:43:07; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30654

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 7; 1894.3; 10-JAN-2008 17:35:02; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30656
 8; 2032.9; 10-JAN-2008 17:37:20; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30656
 9; 2269.1; 10-JAN-2008 17:41:17; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;30656
 10; 2397.1; 10-JAN-2008 17:43:25; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30656
 11; 2484.9; 10-JAN-2008 17:44:52; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30656
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 13; 3424.6; 10-JAN-2008 18:00:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30656
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 16; 4068.9; 10-JAN-2008 18:11:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30656
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 18; 4624.0; 10-JAN-2008 18:20:31; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;30656
 19; 5069.0; 10-JAN-2008 18:27:56; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;30656
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22; 5422.8; 10-JAN-2008 18:33:50; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;30656
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17; 5068.6; 10-JAN-2008 16:47:20; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;30655
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7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
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23; 6298.0; 11-JAN-2008 11:34:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30666
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28; 7048.2; 11-JAN-2008 11:46:55; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30666
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31; 7499.3; 11-JAN-2008 11:54:26; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;30666

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26;	6912.8;	21-JAN-2008	14:51:29;	Dark	;	40.0;	46;	Del Vel	;	1.95;	10600;occ;	80;	0;	30811
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 19; 6092.3; 25-JAN-2008 10:50:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30866
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 25; 6932.9; 25-JAN-2008 12:45:21; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30867
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5; -233.1; 27-JAN-2008 21:26:52; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30901

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11;	801.3;	27-JAN-2008	21:44:07;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30902
12;	908.5;	27-JAN-2008	21:45:54;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	30902
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22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
23;	2681.6;	27-JAN-2008	22:15:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30902
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27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
29;	5284.1;	27-JAN-2008	22:58:50;	Dark	;	42.0;	86;	35Eta Oph	;	2.43;	10200;occ;	84;	0;	30902
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 16; 5283.0; 27-JAN-2008 17:57:01; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;30899
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 12; 3427.3; 27-JAN-2008 19:06:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30900
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 29; 4084.1; 22-JAN-2008 23:36:19; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;30831
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 31; 4762.8; 22-JAN-2008 23:47:38; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30831
 32; 4889.1; 22-JAN-2008 23:49:44; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30831
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17; 5675.6; 23-JAN-2008 08:25:50; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;30836
18; 5790.8; 23-JAN-2008 08:27:45; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30836
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