

GOMOS Daily Report 01-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	03JAN2008 05:40:37
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

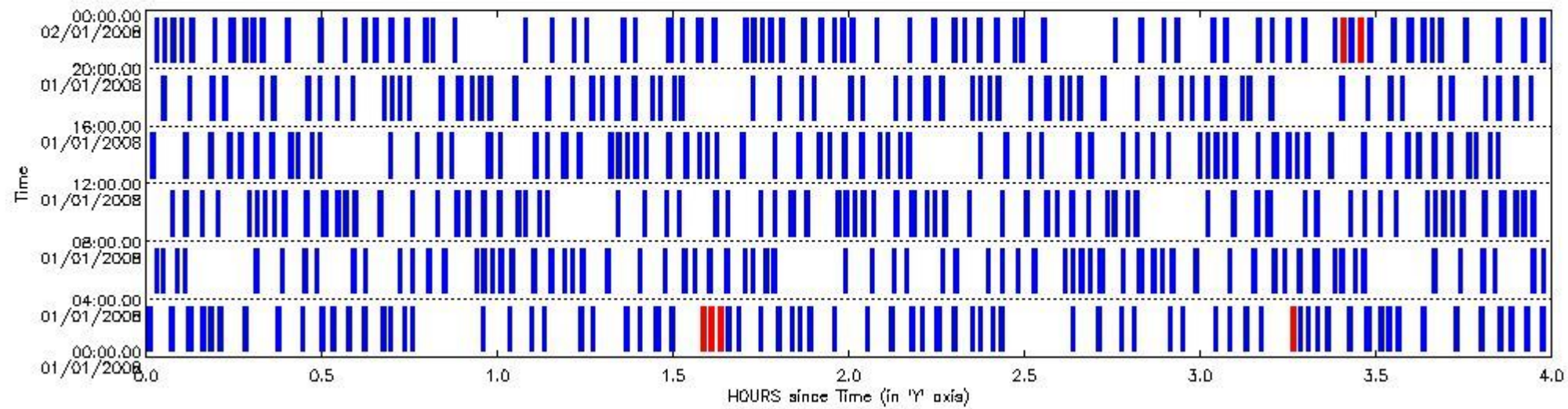
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

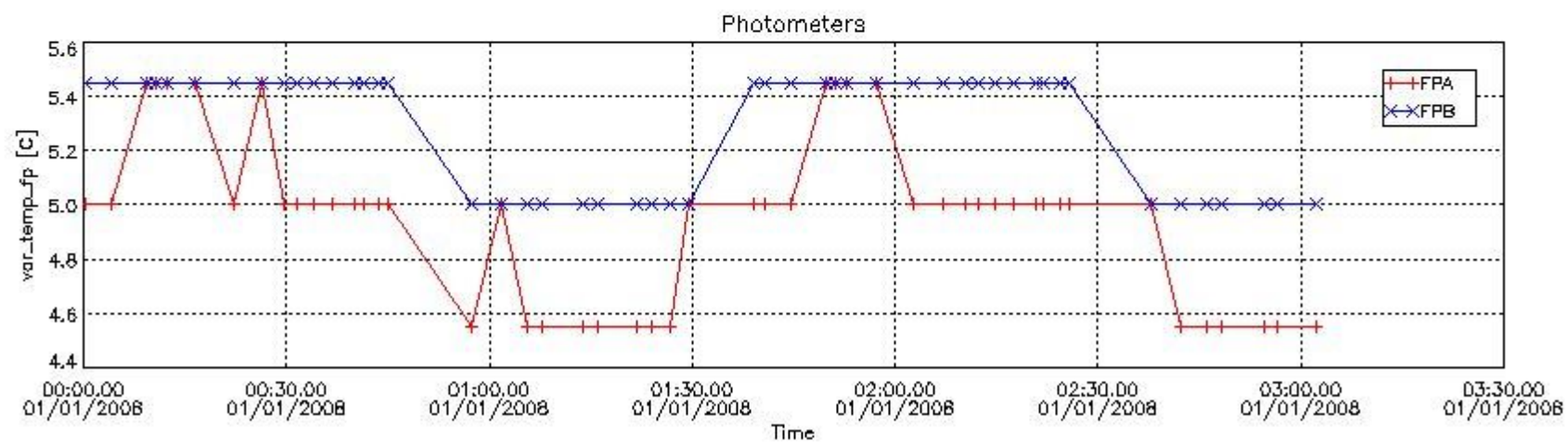
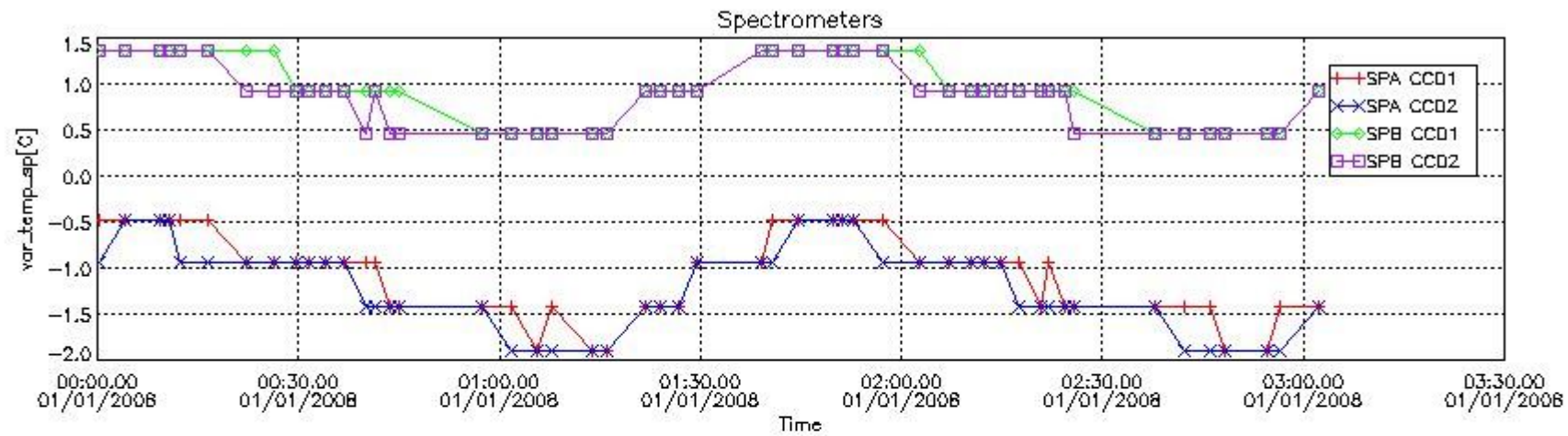
UTC start time	Star name	Star ID	Orbit
01-JAN-2008 01:34:47	GamLup	131	30517
01-JAN-2008 01:36:05	BetLup	109	30517
01-JAN-2008 01:37:33	AlpLup	78	30517
01-JAN-2008 03:15:23	GamLup	131	30518
01-JAN-2008 23:23:58	BetLup	109	30530
01-JAN-2008 23:26:56	ZetCen	95	30530

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_1PNPDE20080101_000010_000000482064_00402_30516_8898.N1	01-JAN-2008 00:00:10	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	30516	No
2	GOM_TRA_1PNPDE20080101_000359_000000402064_00403_30517_8899.N1	01-JAN-2008 00:03:59	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	30517	No
3	GOM_TRA_1PNPDE20080101_000918_000000392064_00403_30517_8900.N1	01-JAN-2008 00:09:18	Dark	38.500	29	Bet Car	1.6720	10200.	77	30517	No
4	GOM_TRA_1PNPDE20080101_001040_000000422064_00403_30517_8901.N1	01-JAN-2008 00:10:40	Dark	41.500	71	lot Car	2.2460	7700.0	83	30517	No
5	GOM_TRA_1PNPDE20080101_001216_000000452064_00403_30517_8902.N1	01-JAN-2008 00:12:16	Dark	45.000	41	Eps Car	1.8600	4100.0	90	30517	No

6	GOM_TRA_1PNPDE20080101_001630_000000412064_00403_30517_8903.N1	01-JAN-2008 00:16:30	Dark	41.000	2	Alp Car	-0.73600	7000.0	82	30517	No
7	GOM_TRA_1PNPDE20080101_002213_000000392064_00403_30517_8904.N1	01-JAN-2008 00:22:13	Straylight	38.500	108	Alp Col	2.6520	15200.	77	30517	No
8	GOM_TRA_1PNPDE20080101_002622_000000422064_00403_30517_8905.N1	01-JAN-2008 00:26:22	Straylight	42.000	47	2Bet CMa	1.9760	28000.	84	30517	No
9	GOM_TRA_1PNPDE20080101_002942_000000472064_00403_30517_8906.N1	01-JAN-2008 00:29:42	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	30517	No
10	GOM_TRA_1PNPDE20080101_003134_000000432064_00403_30517_8907.N1	01-JAN-2008 00:31:34	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	30517	No
11	GOM_TRA_1PNPDE20080101_003407_000000472064_00403_30517_8908.N1	01-JAN-2008 00:34:07	Twilight_and_stray	47.000	14	58Alp Ori	0.87000	3000.0	94	30517	No
12	GOM_TRA_1PNPDE20080101_003653_000000522064_00403_30517_8909.N1	01-JAN-2008 00:36:53	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30517	No
13	GOM_TRA_1PNPDE20080101_004011_000000382064_00403_30517_8910.N1	01-JAN-2008 00:40:11	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	30517	No
14	GOM_TRA_1PNPDE20080101_004126_000000382064_00403_30517_8911.N1	01-JAN-2008 00:41:26	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30517	No
15	GOM_TRA_1PNPDE20080101_004345_000000342064_00403_30517_8912.N1	01-JAN-2008 00:43:45	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30517	No
16	GOM_TRA_1PNPDE20080101_004507_000000402064_00403_30517_8913.N1	01-JAN-2008 00:45:07	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	30517	No
17	GOM_TRA_1PNPDE20080101_005717_000000352064_00403_30517_8914.N1	01-JAN-2008 00:57:17	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30517	No
18	GOM_TRA_1PNPDE20080101_010145_000000382064_00403_30517_8915.N1	01-JAN-2008 01:01:45	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	30517	No
19	GOM_TRA_1PNPDE20080101_010535_000000372064_00403_30517_8916.N1	01-JAN-2008 01:05:35	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30517	No
20	GOM_TRA_1PNPDE20080101_010740_000000362064_00403_30517_8917.N1	01-JAN-2008 01:07:40	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30517	No
21	GOM_TRA_1PNPDE20080101_011354_000000512064_00403_30517_8918.N1	01-JAN-2008 01:13:54	Bright	51.000	133	40Zet Her	2.8070	6000.0	102	30517	No
22	GOM_TRA_1PNPDE20080101_011558_000000362064_00403_30517_8919.N1	01-JAN-2008 01:15:58	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	30517	No
23	GOM_TRA_1PNPDE20080101_012142_000000362064_00403_30517_8920.N1	01-JAN-2008 01:21:42	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	30517	No
24	GOM_TRA_1PNPDE20080101_012401_000000342064_00403_30517_8921.N1	01-JAN-2008 01:24:01	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	30517	No
25	GOM_TRA_1PNPDE20080101_012645_000000552064_00403_30517_8922.N1	01-JAN-2008 01:26:45	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	30517	No
26	GOM_TRA_1PNPDE20080101_012923_000000452064_00403_30517_9036.N1	01-JAN-2008 01:29:23	Twilight_and_stray	45.000	122	9Alp2Lib	2.7470	9700.0	90	30517	No
27	GOM_TRA_1PNPDE20080101_013902_000000412064_00403_30517_9037.N1	01-JAN-2008 01:39:02	Dark	41.000	95	Zet Cen	2.5450	26000.	82	30517	No
28	GOM_TRA_1PNPDE20080101_014047_000000412064_00403_30517_9038.N1	01-JAN-2008 01:40:47	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	30517	No
29	GOM_TRA_1PNPDE20080101_014436_000000422064_00404_30518_9039.N1	01-JAN-2008 01:44:36	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	30518	No
30	GOM_TRA_1PNPDE20080101_014954_000000392064_00404_30518_9040.N1	01-JAN-2008 01:49:54	Dark	39.000	29	Bet Car	1.6720	10200.	78	30518	No
31	GOM_TRA_1PNPDE20080101_015116_000000402064_00404_30518_9041.N1	01-JAN-2008 01:51:16	Dark	39.500	71	lot Car	2.2460	7700.0	79	30518	No
32	GOM_TRA_1PNPDE20080101_015252_000000522064_00404_30518_9042.N1	01-JAN-2008 01:52:52	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30518	No
33	GOM_TRA_1PNPDE20080101_015706_000000452064_00404_30518_9043.N1	01-JAN-2008 01:57:06	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	30518	No
34	GOM_TRA_1PNPDE20080101_020249_000000402064_00404_30518_9044.N1	01-JAN-2008 02:02:49	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30518	No
35	GOM_TRA_1PNPDE20080101_020658_000000452064_00404_30518_9045.N1	01-JAN-2008 02:06:58	Straylight	45.000	47	2Bet CMa	1.9760	28000.	90	30518	No
36	GOM_TRA_1PNPDE20080101_021018_000000472064_00404_30518_9046.N1	01-JAN-2008 02:10:18	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	30518	No
37	GOM_TRA_1PNPDE20080101_021210_000000422064_00404_30518_9047.N1	01-JAN-2008 02:12:10	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30518	No
38	GOM_TRA_1PNPDE20080101_021442_000000552064_00404_30518_9048.N1	01-JAN-2008 02:14:42	Twilight_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	30518	No
39	GOM_TRA_1PNPDE20080101_021729_000000492064_00404_30518_9049.N1	01-JAN-2008 02:17:29	Bright	49.000	13	87Alp Tau	0.86700	3800.0	98	30518	No
40	GOM_TRA_1PNPDE20080101_022047_000000382064_00404_30518_9050.N1	01-JAN-2008 02:20:47	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	30518	No
41	GOM_TRA_1PNPDE20080101_022202_000000372064_00404_30518_9051.N1	01-JAN-2008 02:22:02	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	30518	No
42	GOM_TRA_1PNPDE20080101_022420_000000362064_00404_30518_9052.N1	01-JAN-2008 02:24:20	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30518	No
43	GOM_TRA_1PNPDE20080101_022542_000000432064_00404_30518_9053.N1	01-JAN-2008 02:25:42	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	30518	No
44	GOM_TRA_1PNPDE20080101_023752_000000362064_00404_30518_9054.N1	01-JAN-2008 02:37:52	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30518	No
45	GOM_TRA_1PNPDE20080101_024221_000000382064_00404_30518_9241.N1	01-JAN-2008 02:42:21	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30518	No
46	GOM_TRA_1PNPDE20080101_024611_000000362064_00404_30518_9242.N1	01-JAN-2008 02:46:11	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30518	No
47	GOM_TRA_1PNPDE20080101_024817_000000352064_00404_30518_9243.N1	01-JAN-2008 02:48:17	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	30518	No
48	GOM_TRA_1PNPDE20080101_025430_000000342064_00404_30518_9244.N1	01-JAN-2008 02:54:30	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	30518	No
49	GOM_TRA_1PNPDE20080101_025634_000000372064_00404_30518_9245.N1	01-JAN-2008 02:56:34	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	30518	No
50	GOM_TRA_1PNPDE20080101_030218_000000362064_00404_30518_9246.N1	01-JAN-2008 03:02:18	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	30518	No

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



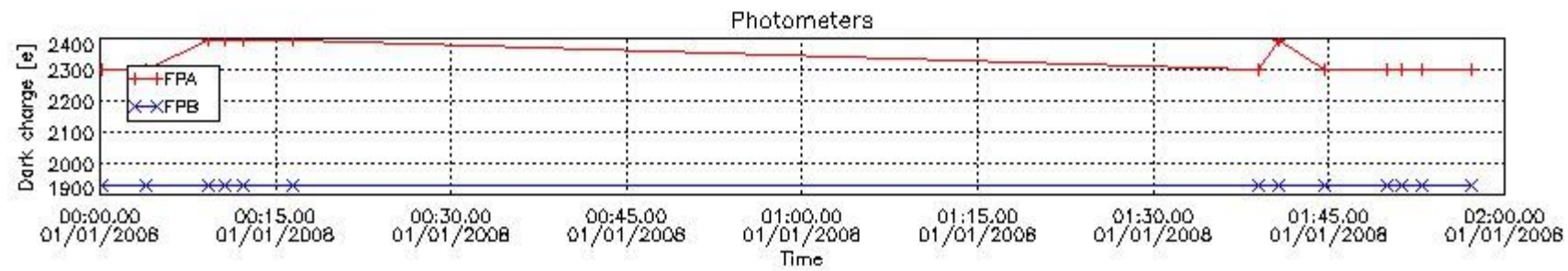
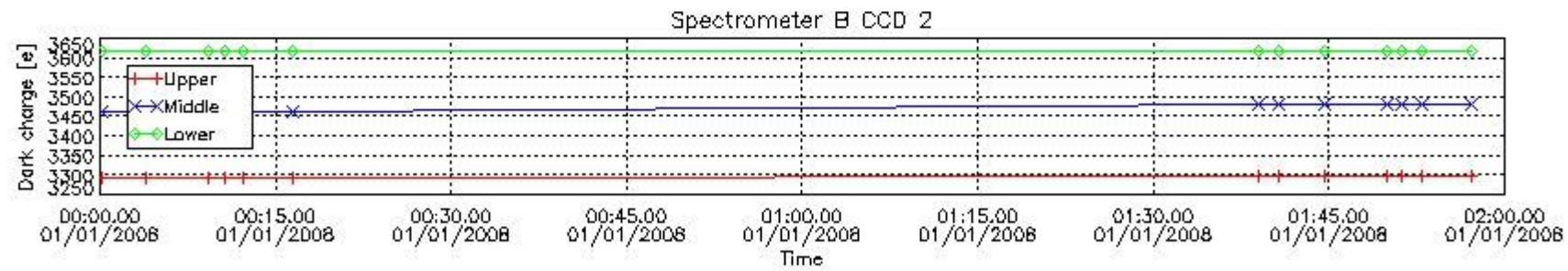
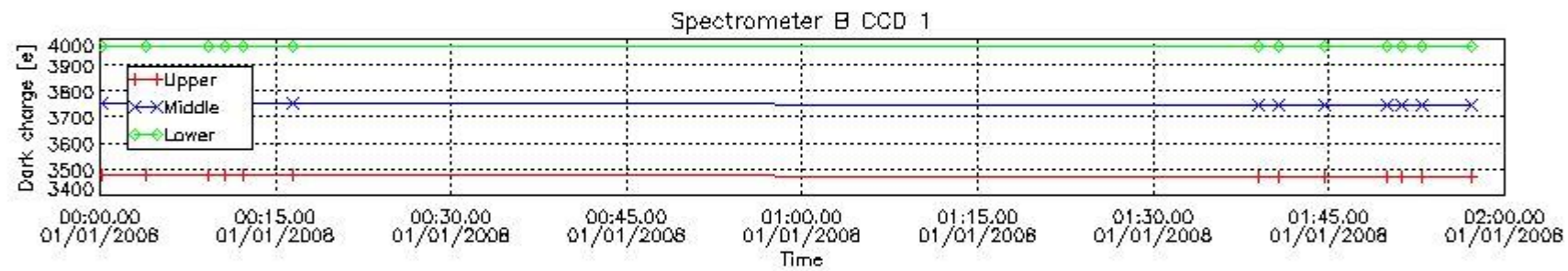
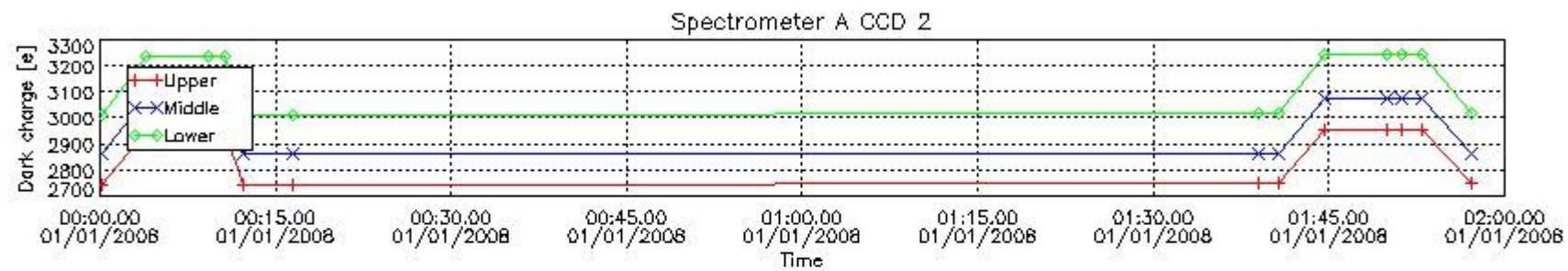
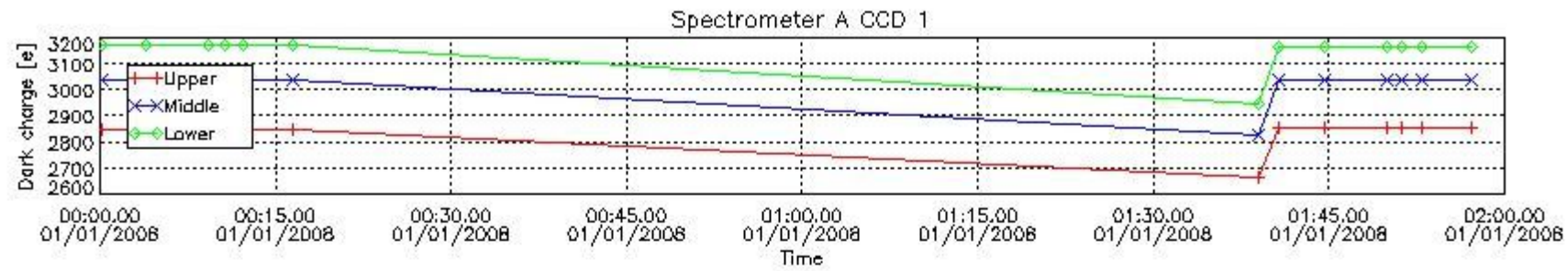
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



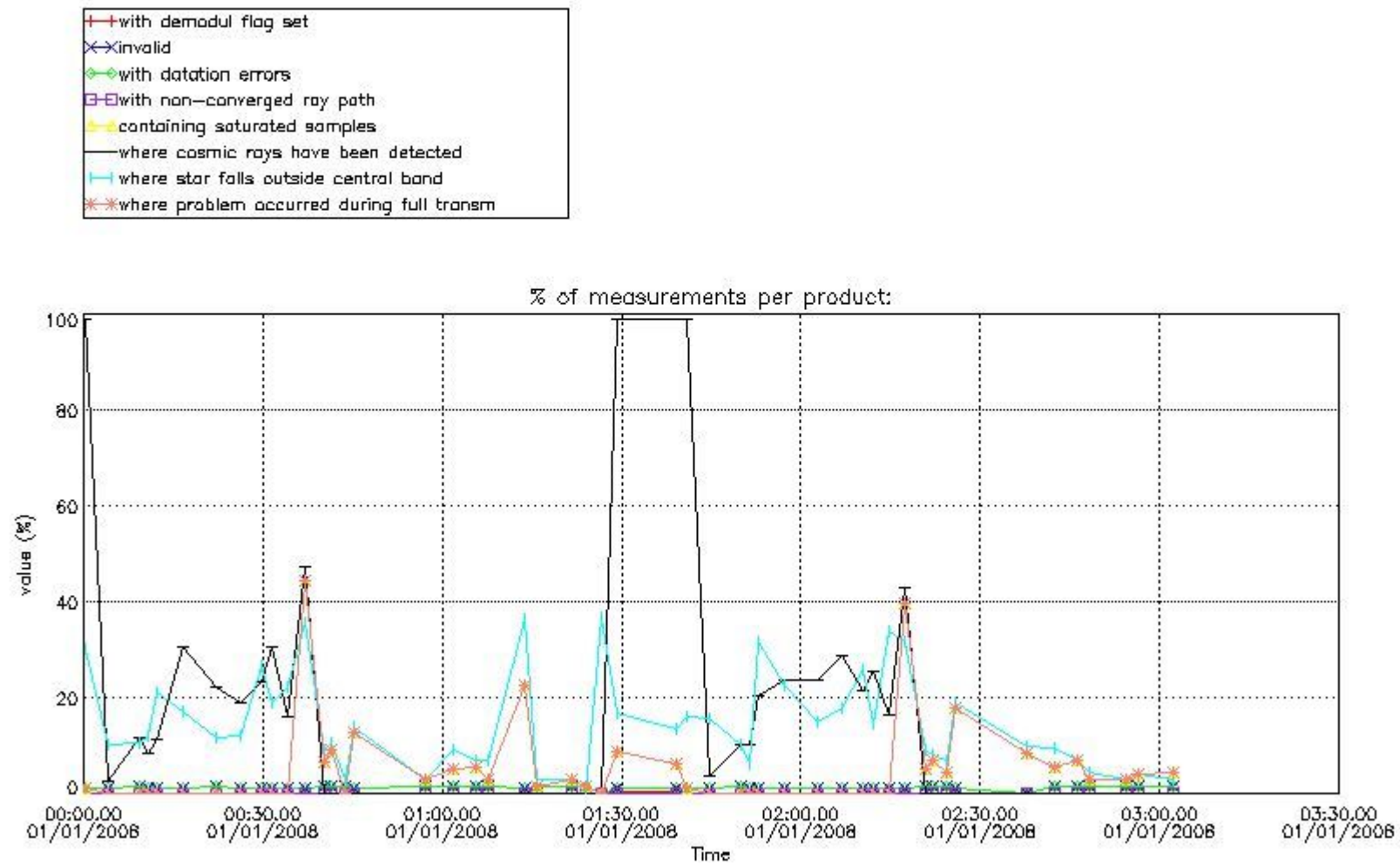
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

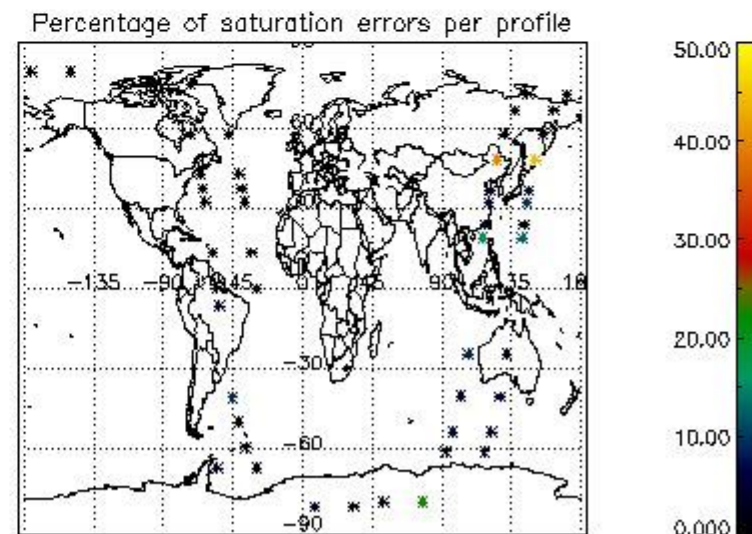
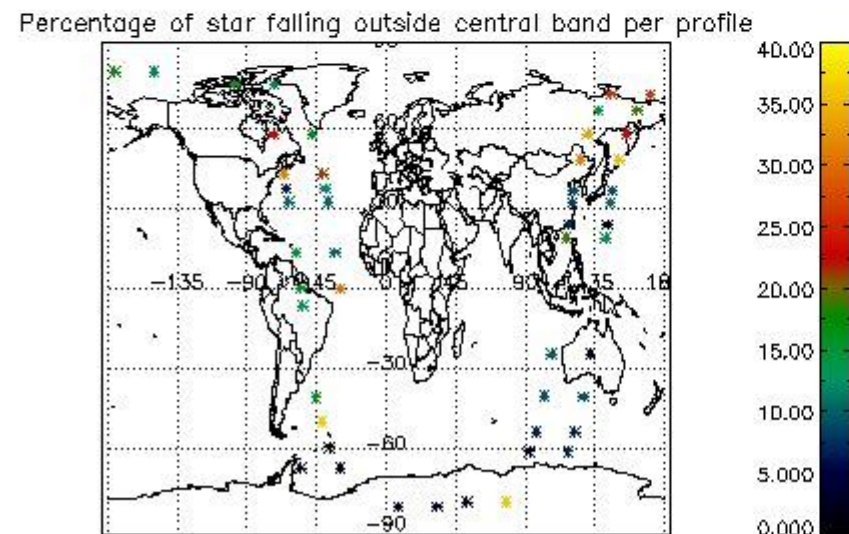
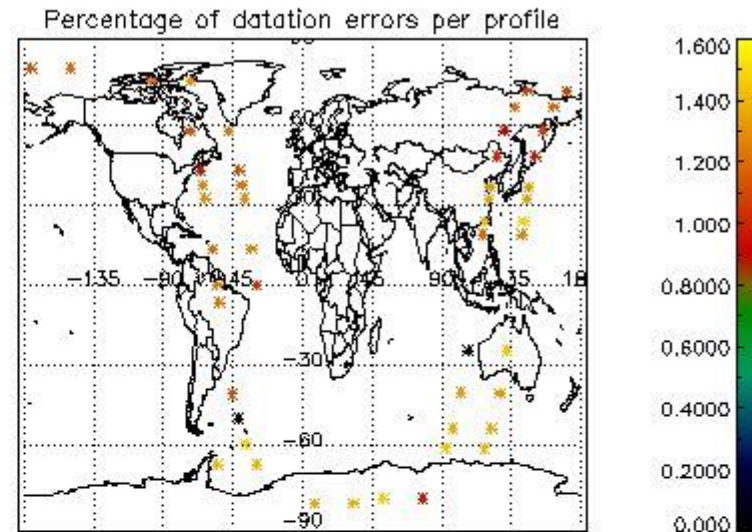
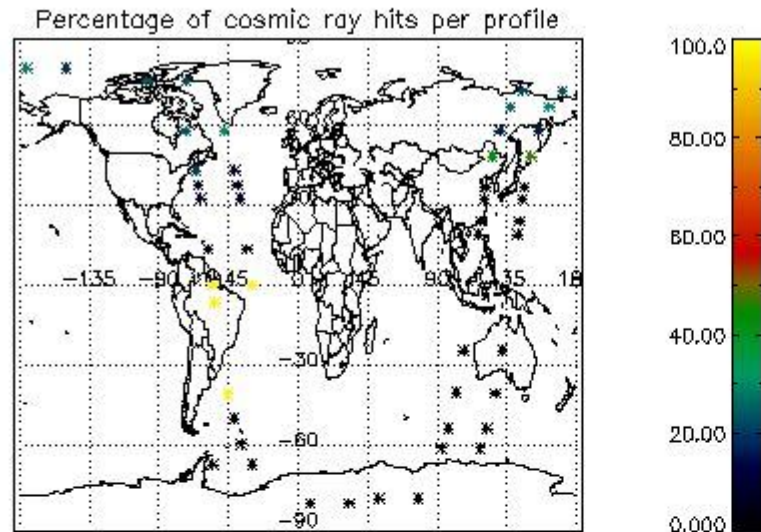
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



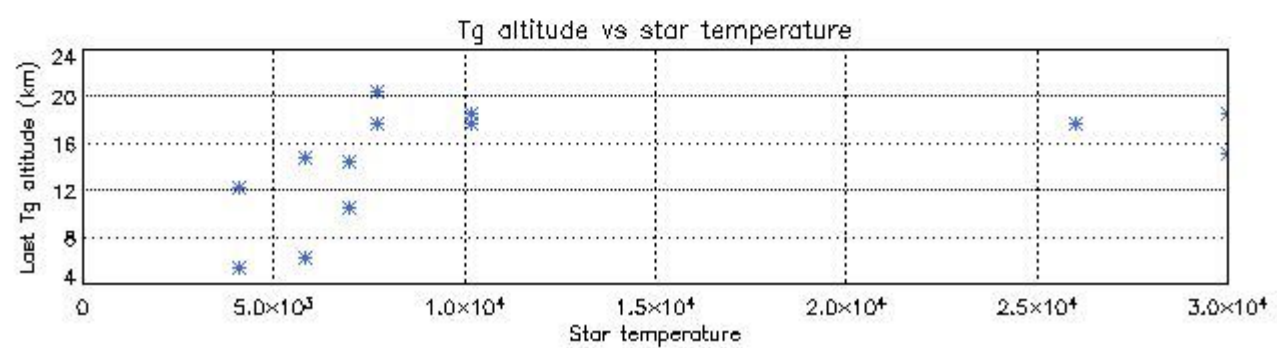
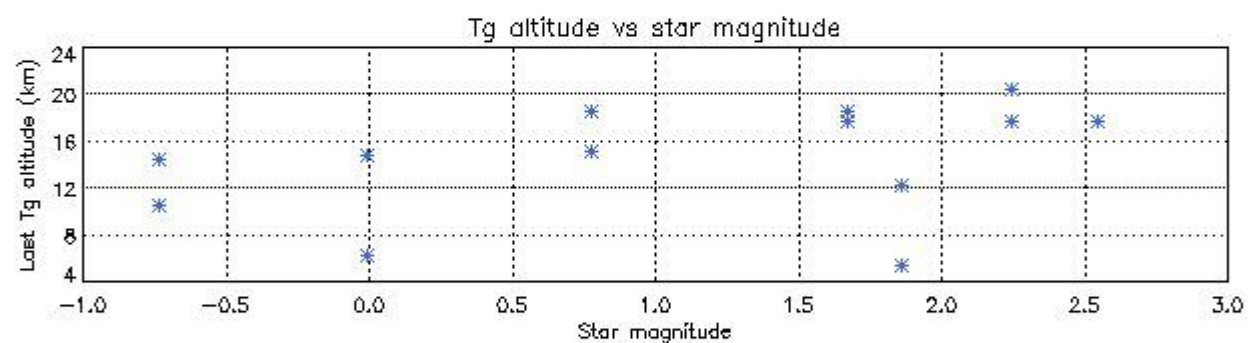
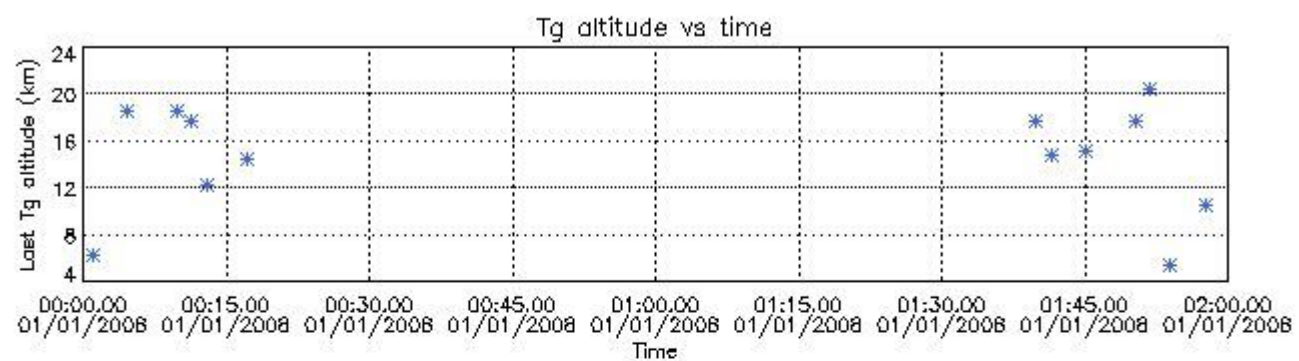
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.562	18.202	NaN
St. deviation:	4.7453	6.5052	NaN
Maximum:	20.464	24.985	NaN
Minimum:	5.4012	4.3602	NaN
Number of data:	13.000	26.000	NaN

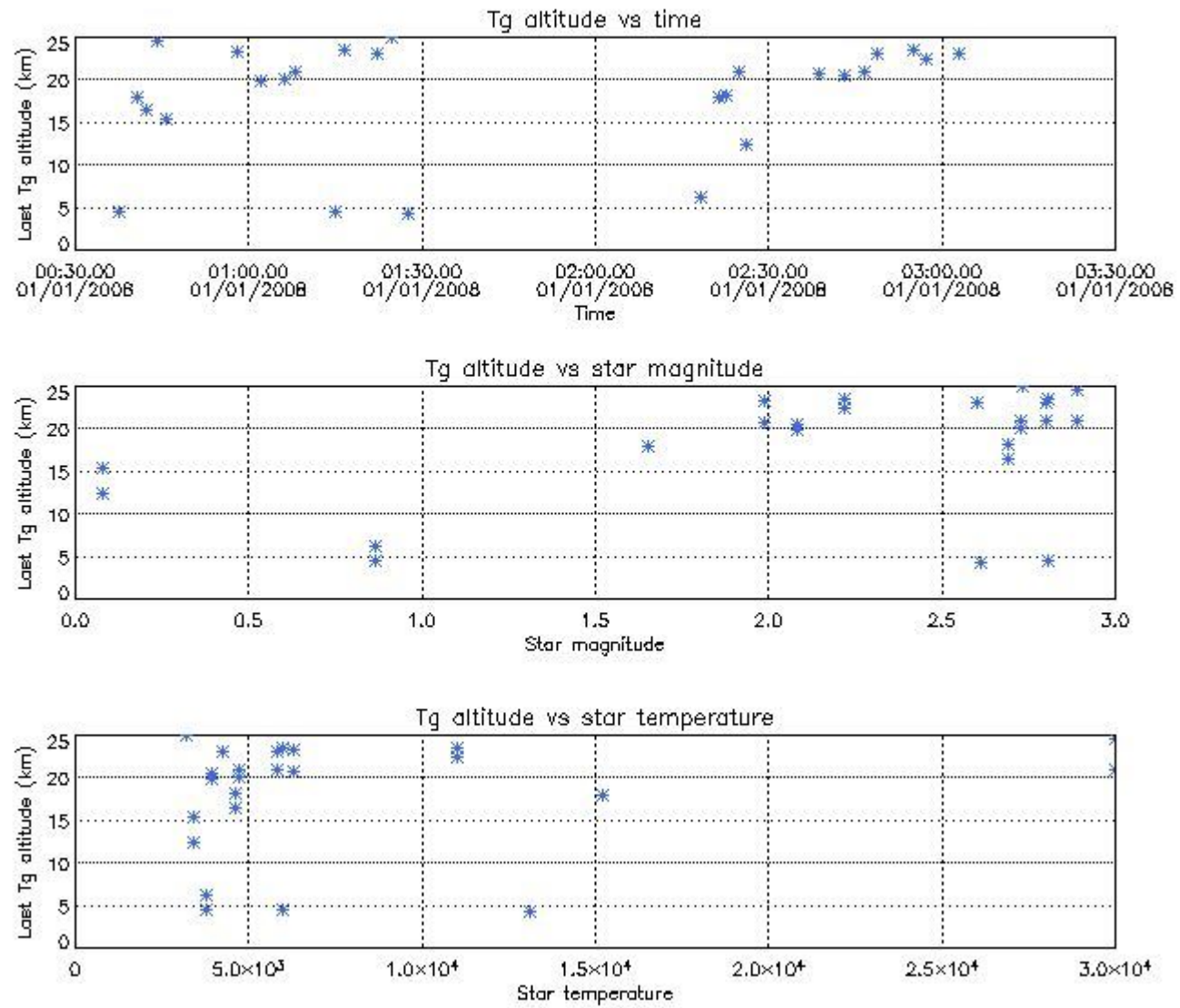
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

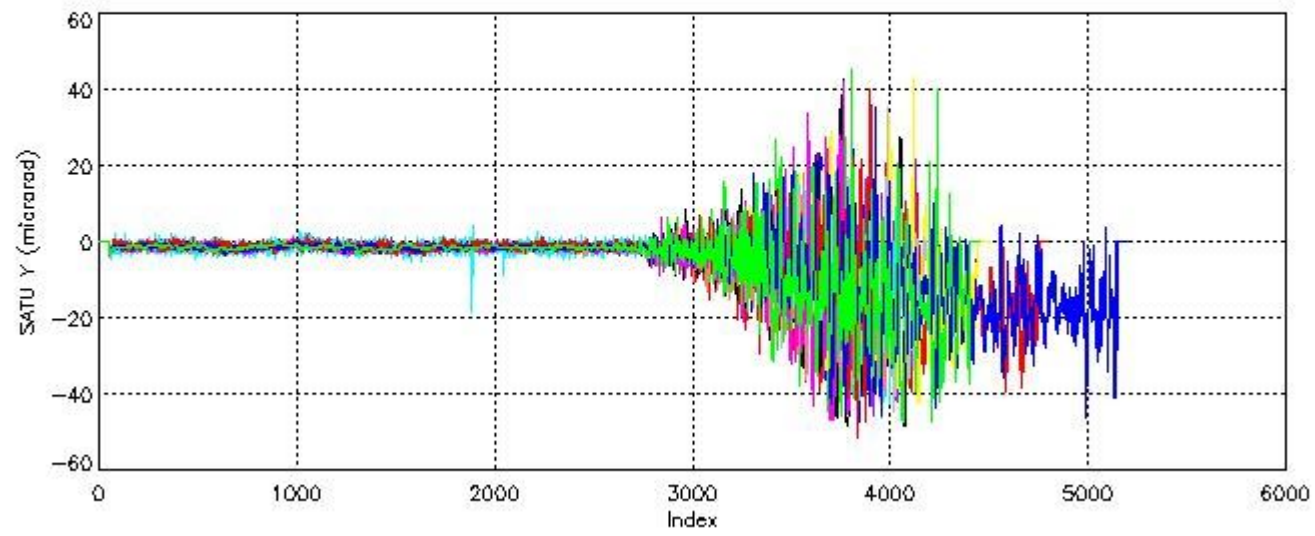
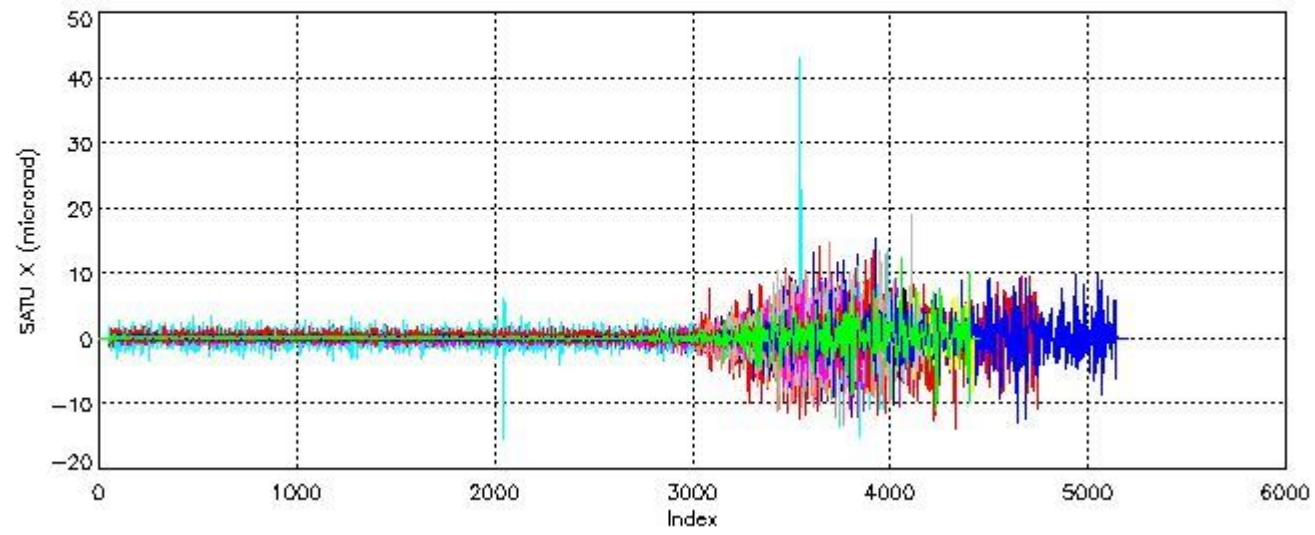


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10592	-1.3818	0.017635	-1.3203
St. deviation:	0.33791	0.68459	0.66618	0.97834
Maximum:	3.3000	2.2000	5.6000	4.8000
Minimum:	-3.3000	-4.7000	-5.7000	-7.1000

Number of data:	11600.	11600.	21500.	21500.
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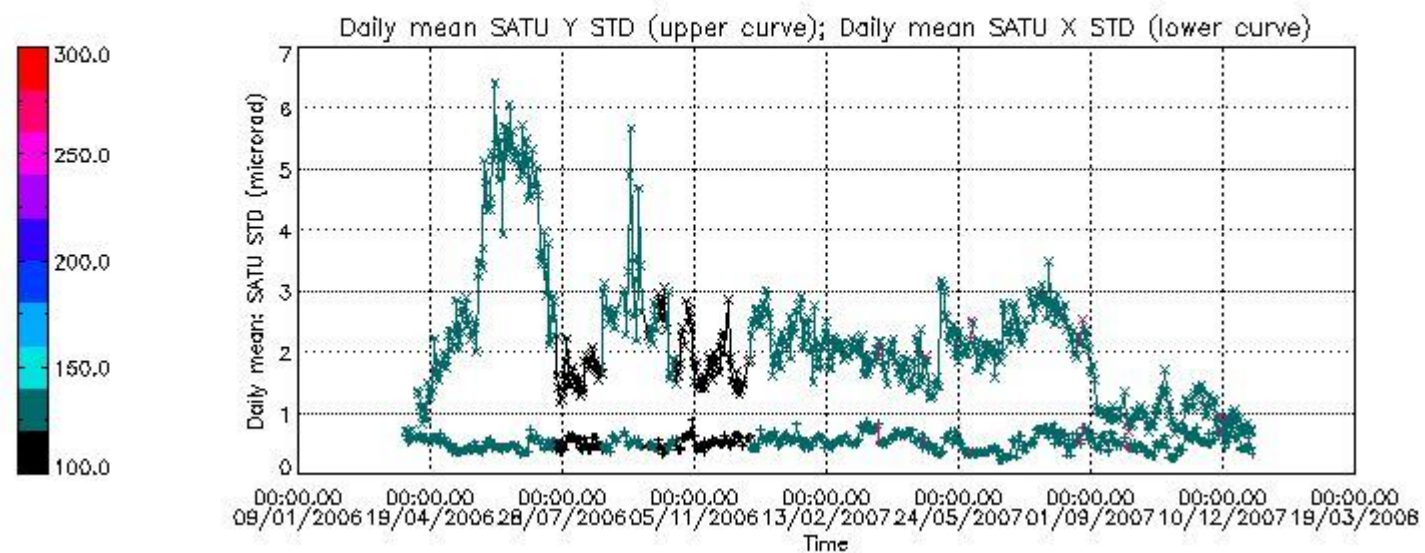
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

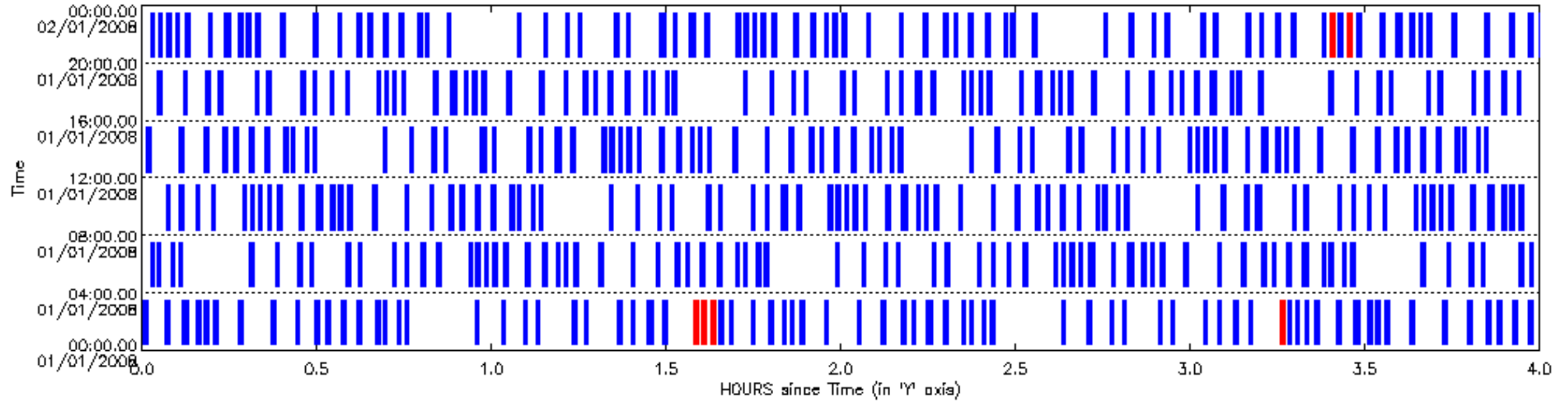
Lower curve: STD of SATU X axis

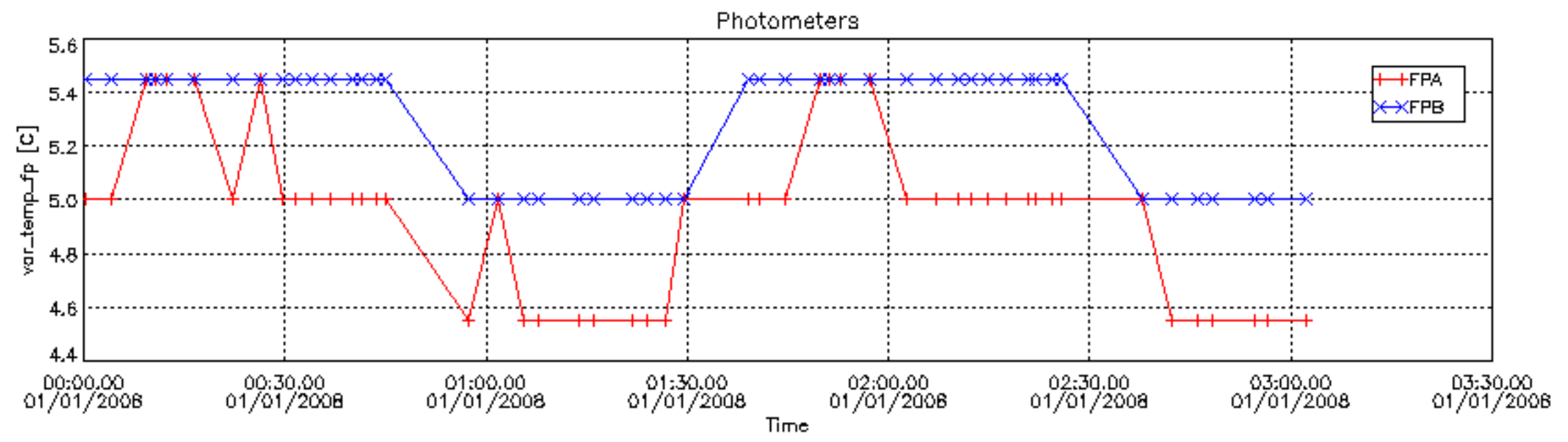
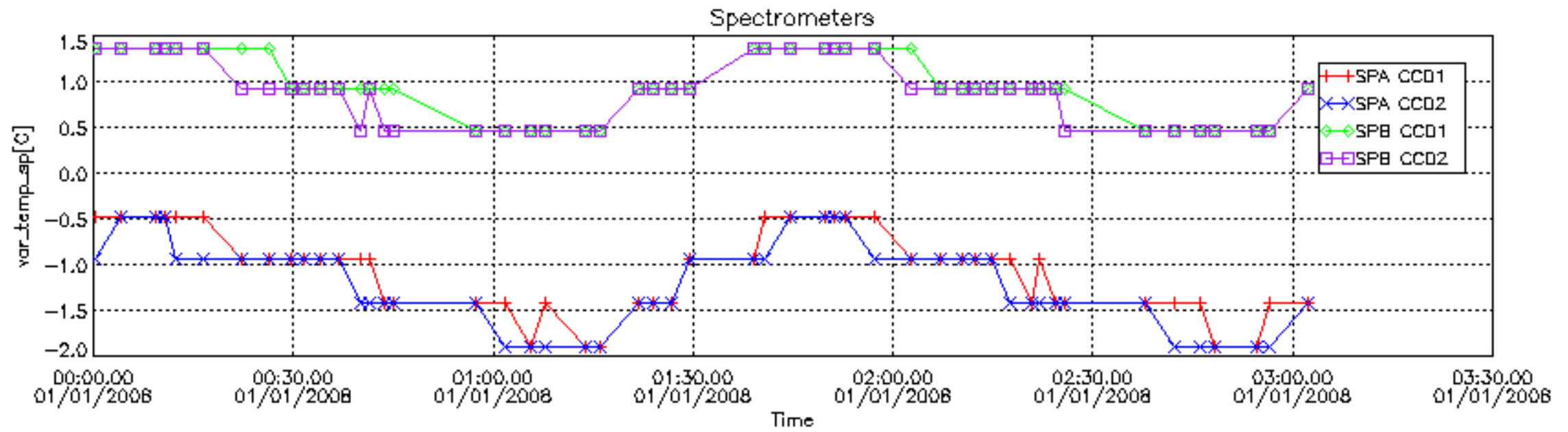


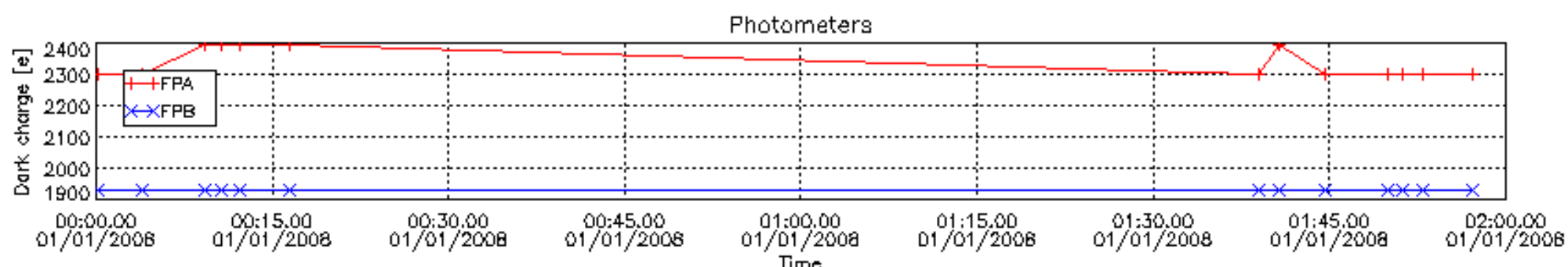
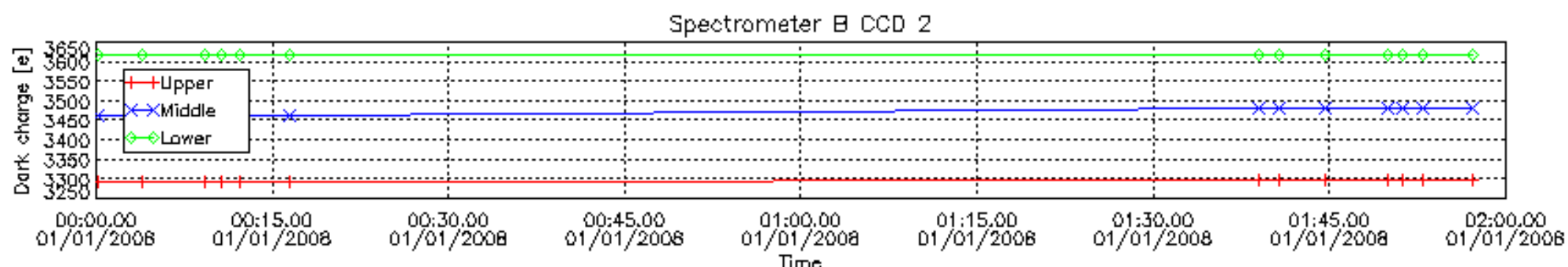
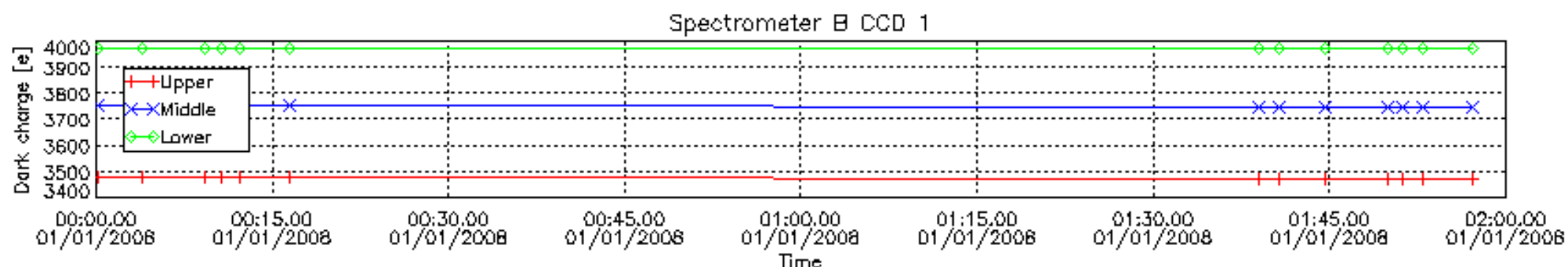
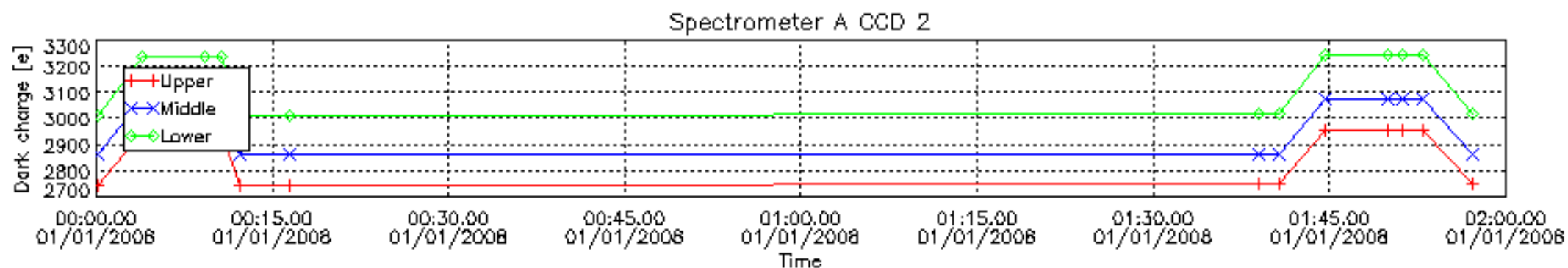
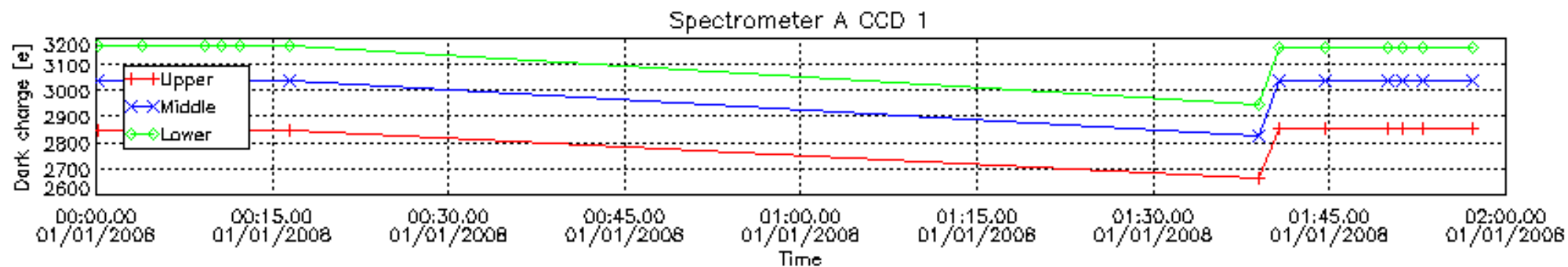
8. Auxiliary Data Files used for the production reported in section 2.4

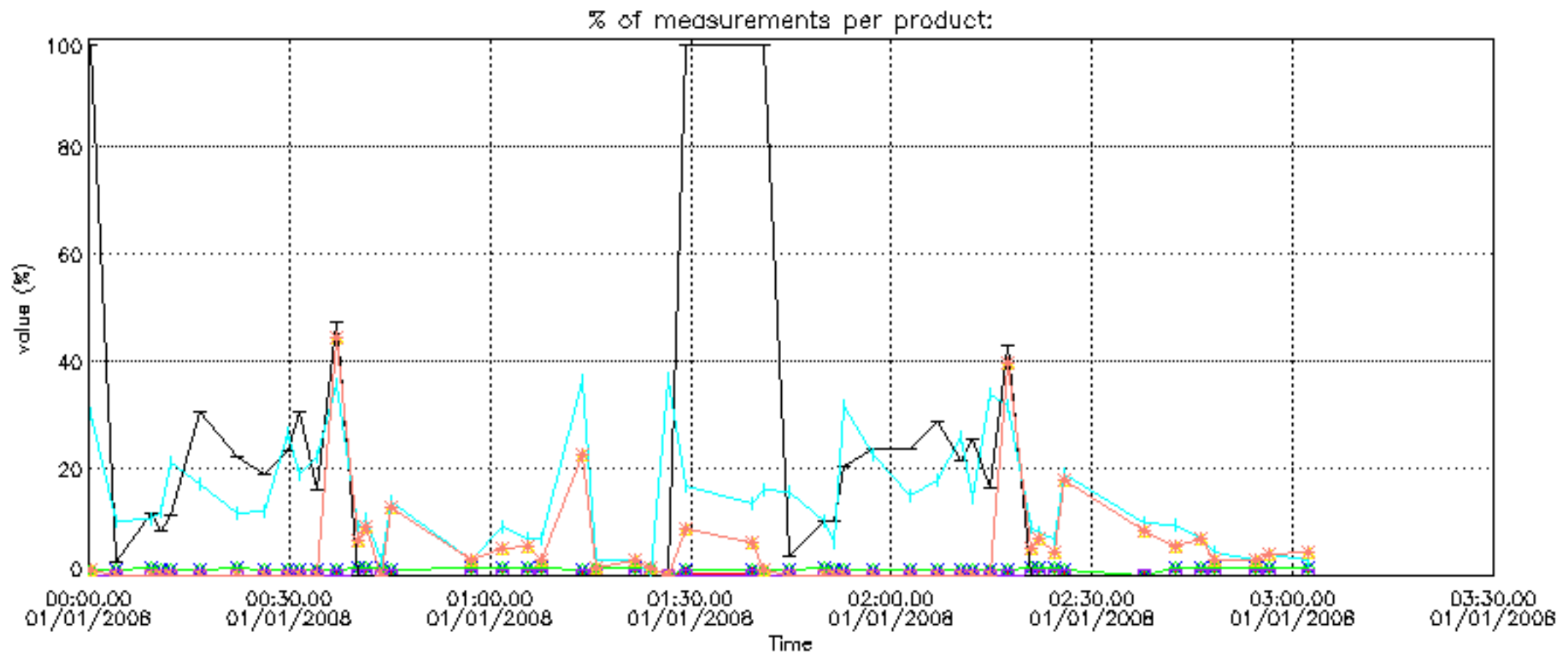
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JAN-2008 00:00:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	01-JAN-2008 00:00:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JAN-2008 00:00:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JAN-2008 00:00:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JAN-2008 00:00:10
ECMWF_FILE	AUX_ECF_AXNECM20071231_073111_20071231_210000_20080101_090000	1	01-JAN-2008 00:00:10
OPTIONAL_ECMWF_FILE	MISSING	1	01-JAN-2008 00:00:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071231_220212_000060572064_00401_30515_4859.N1	1	01-JAN-2008 00:00:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071231_234309_000057382064_00402_30516_4860.N1	26	01-JAN-2008 01:29:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080101_012406_000041442064_00403_30517_4861.N1	45	01-JAN-2008 02:42:21

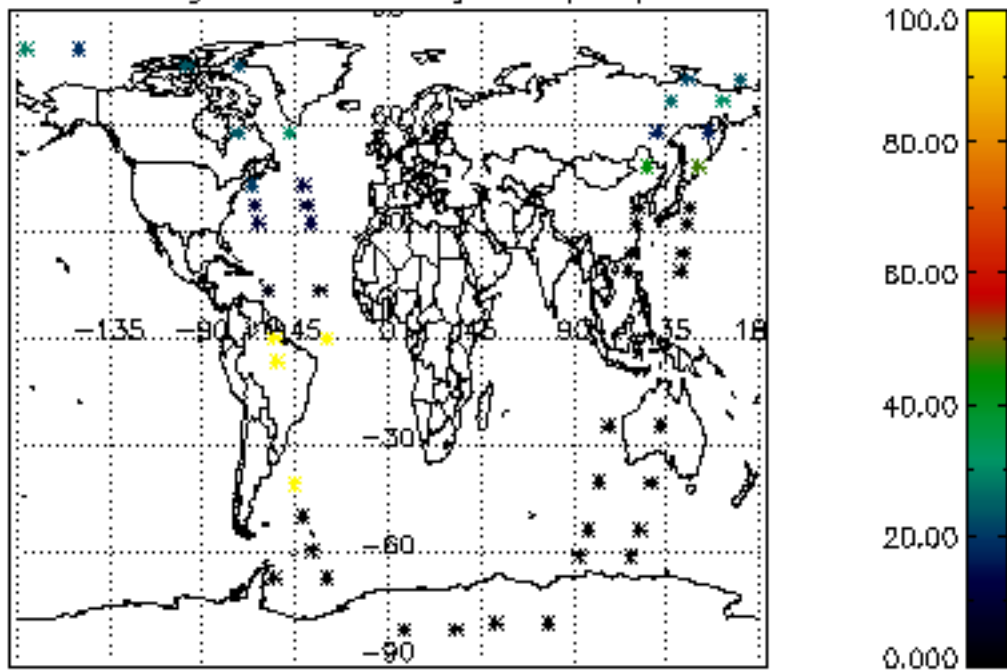




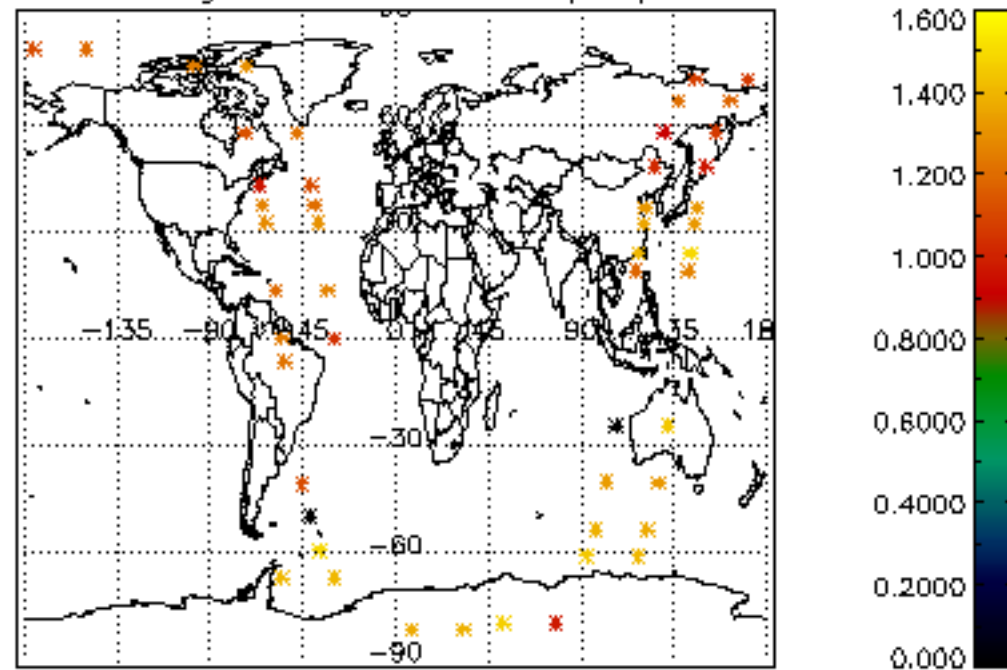




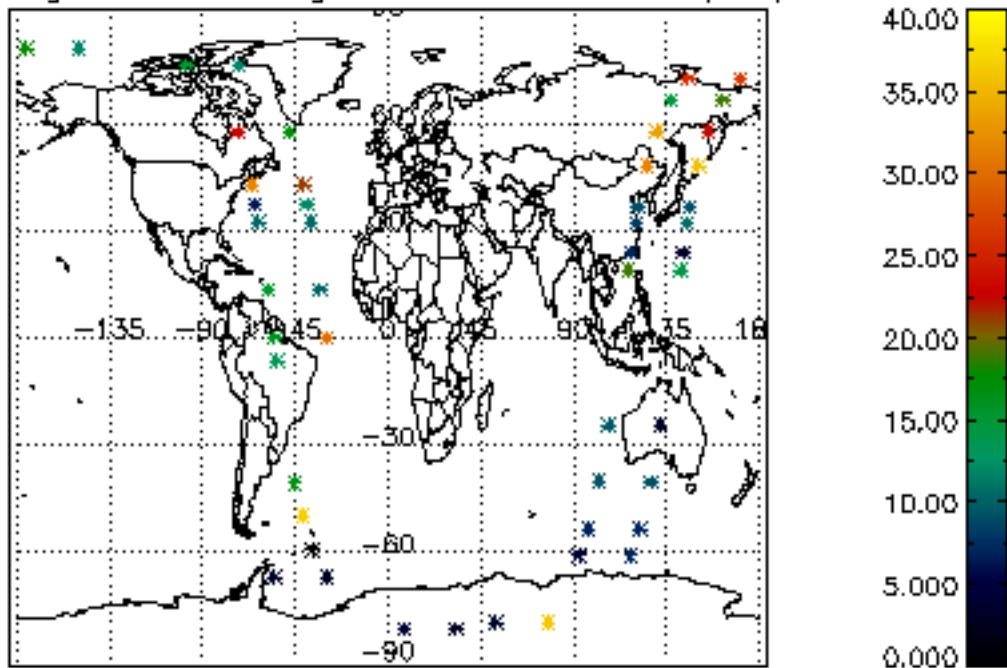
Percentage of cosmic ray hits per profile



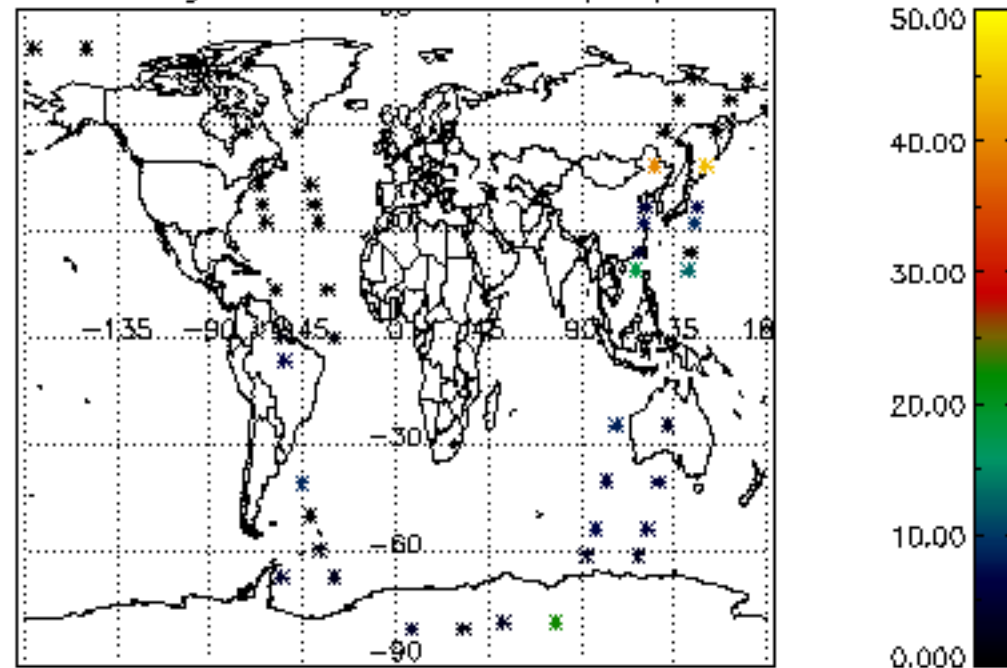
Percentage of datation errors per profile



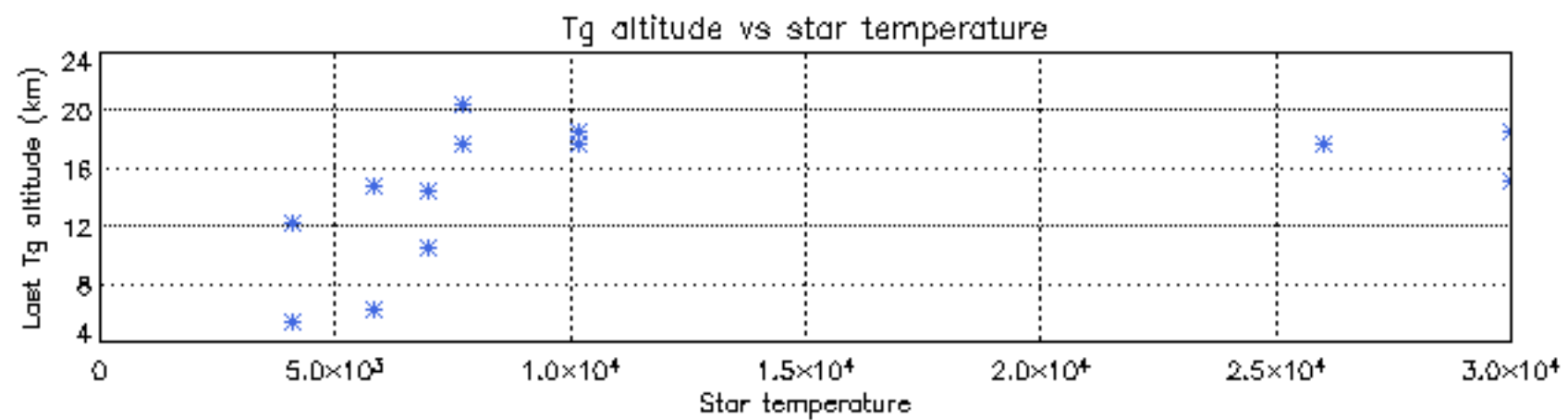
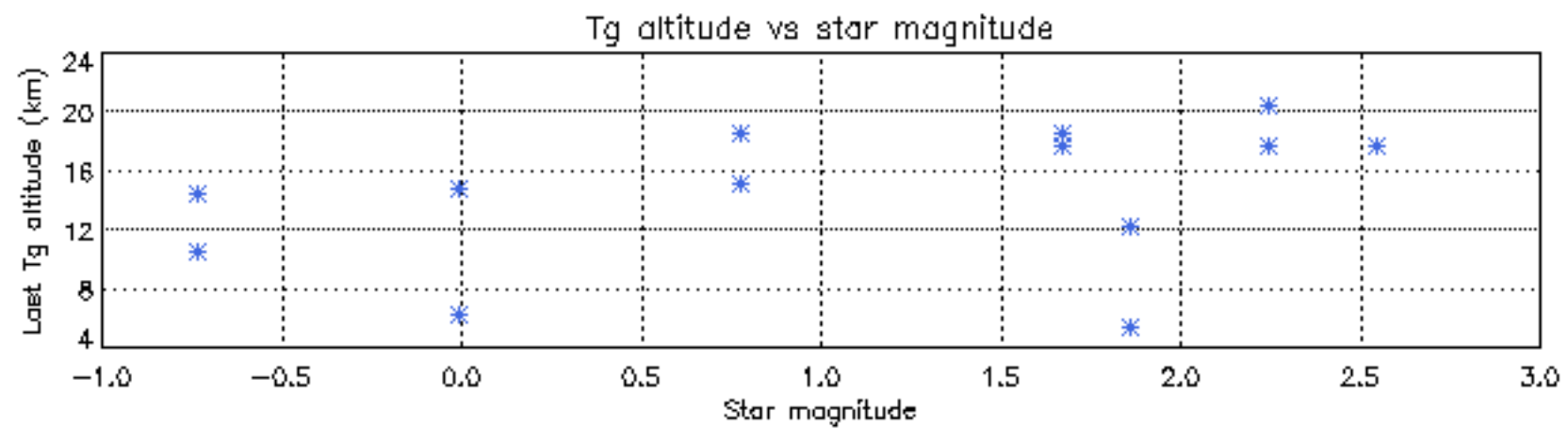
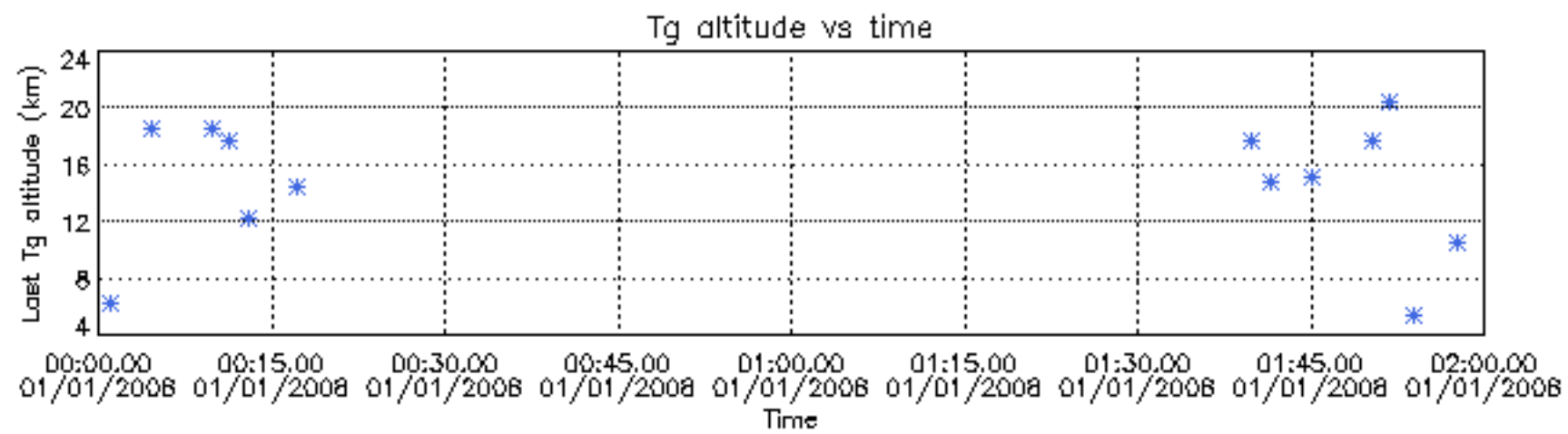
Percentage of star falling outside central band per profile



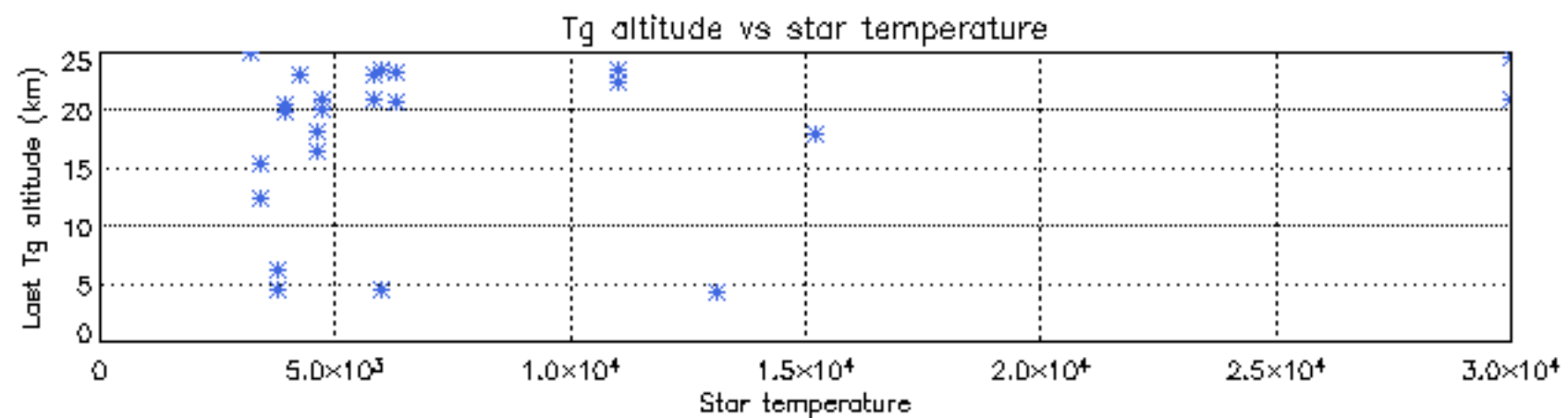
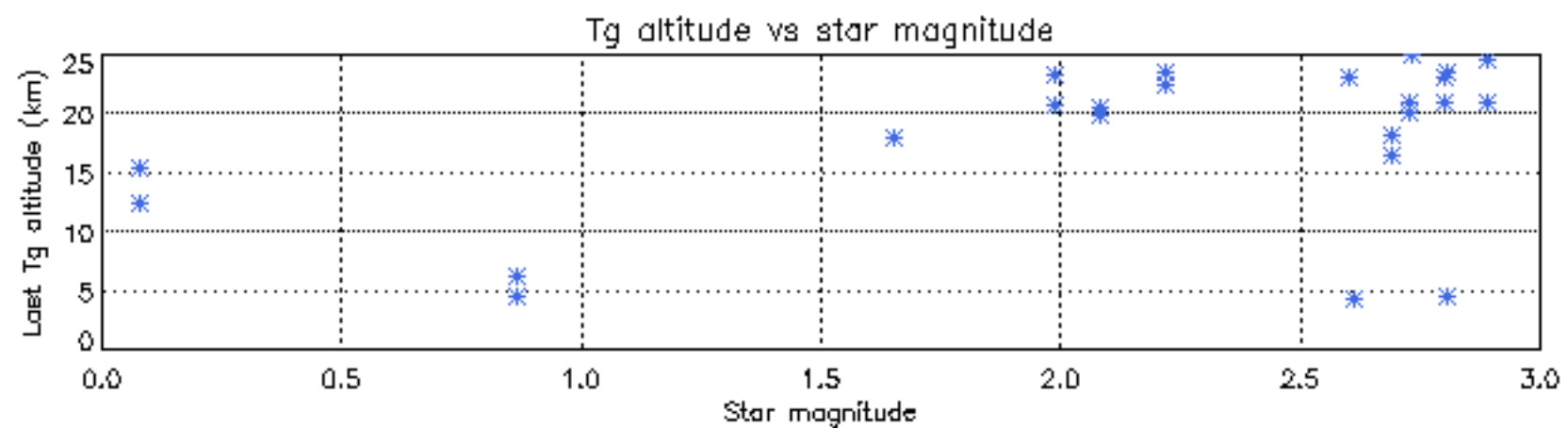
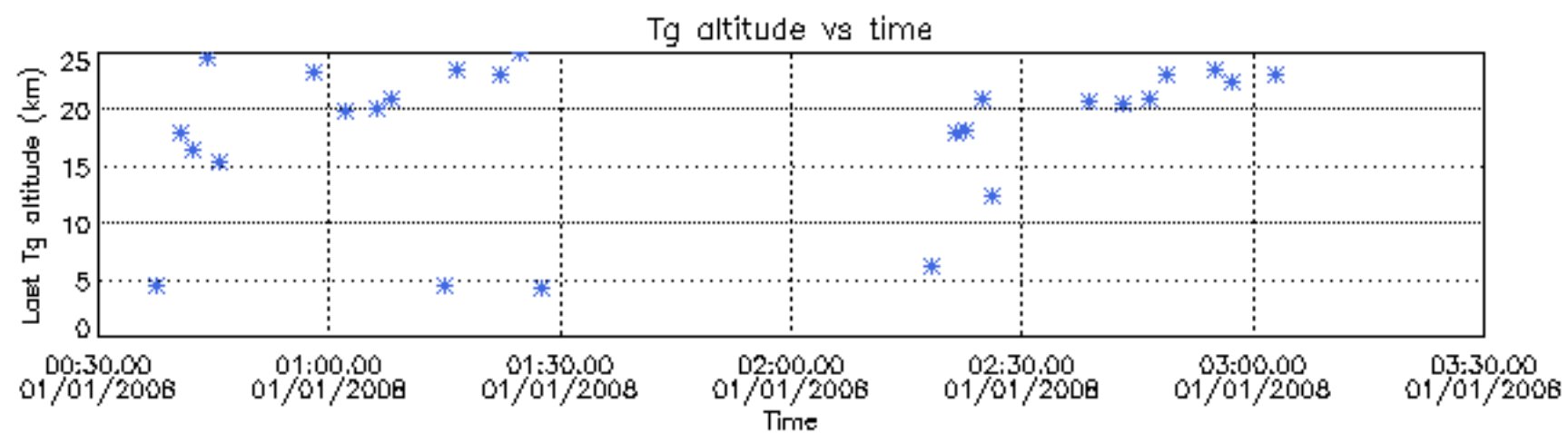
Percentage of saturation errors per profile

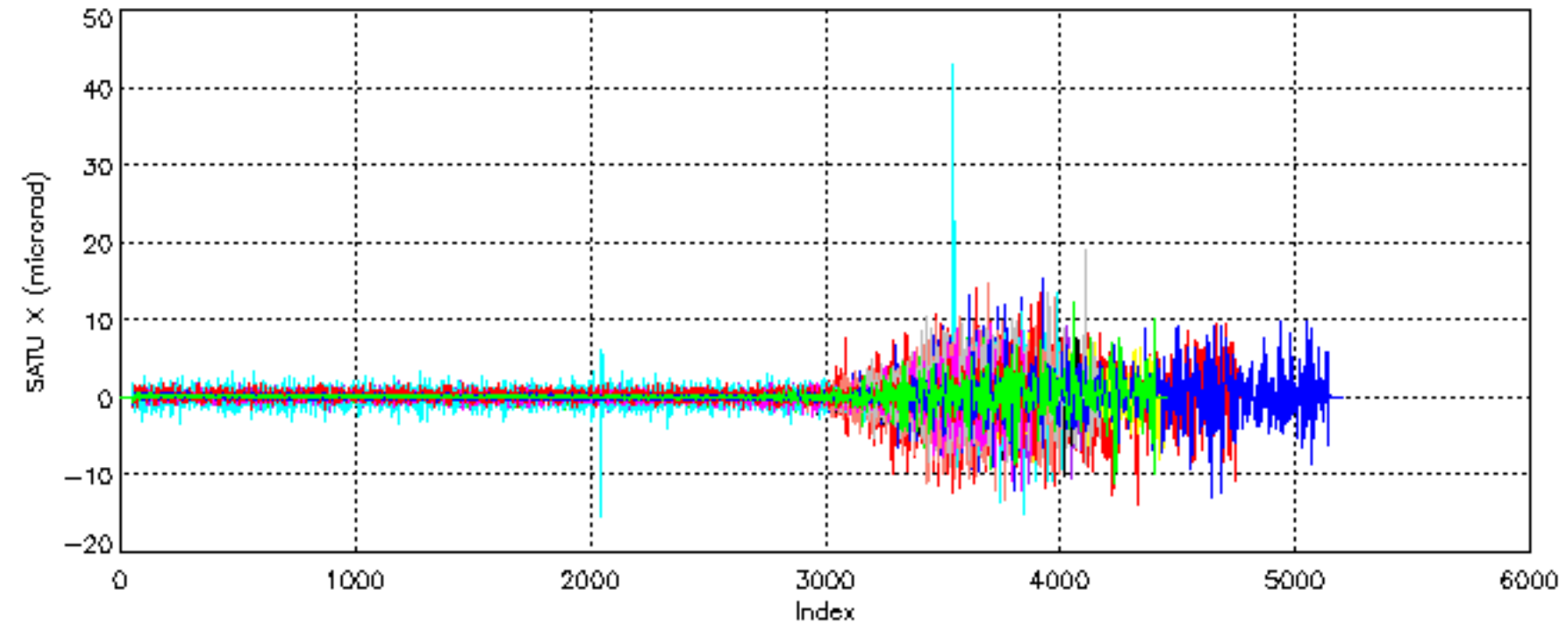


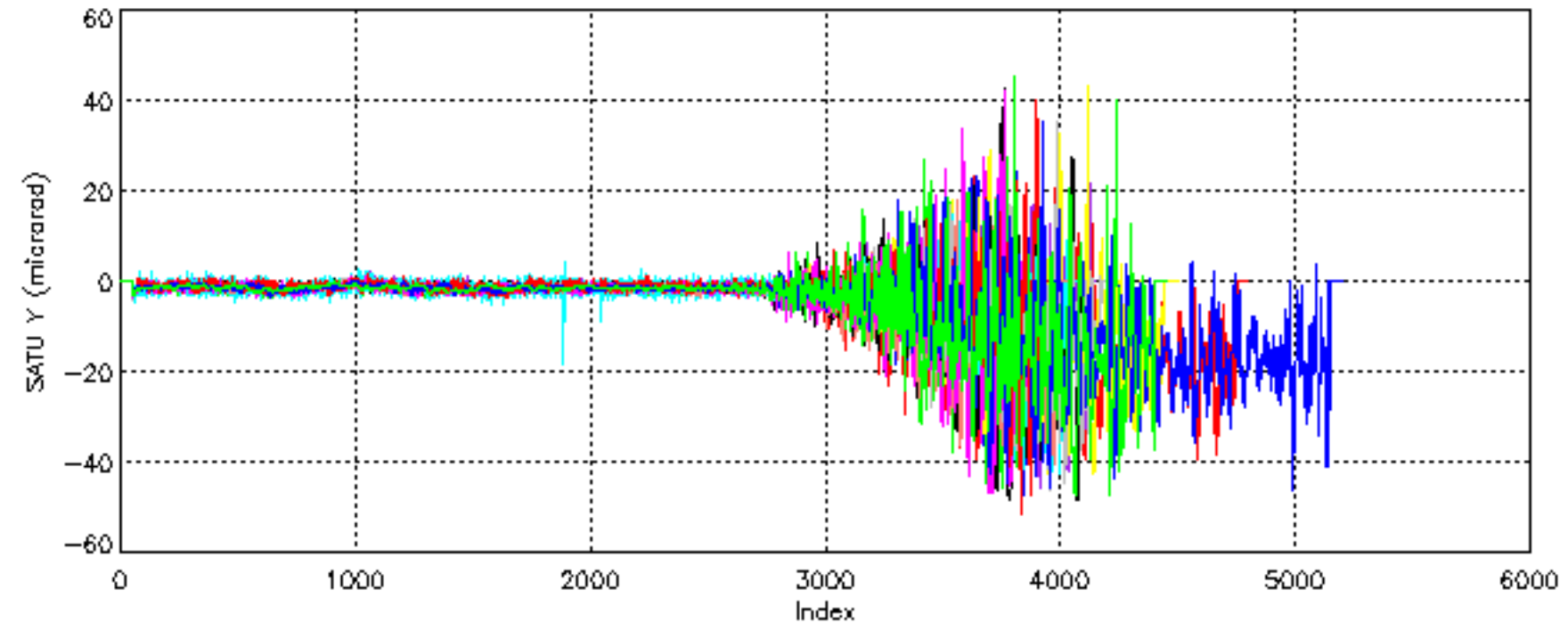
Tangent altitude at which the star is lost

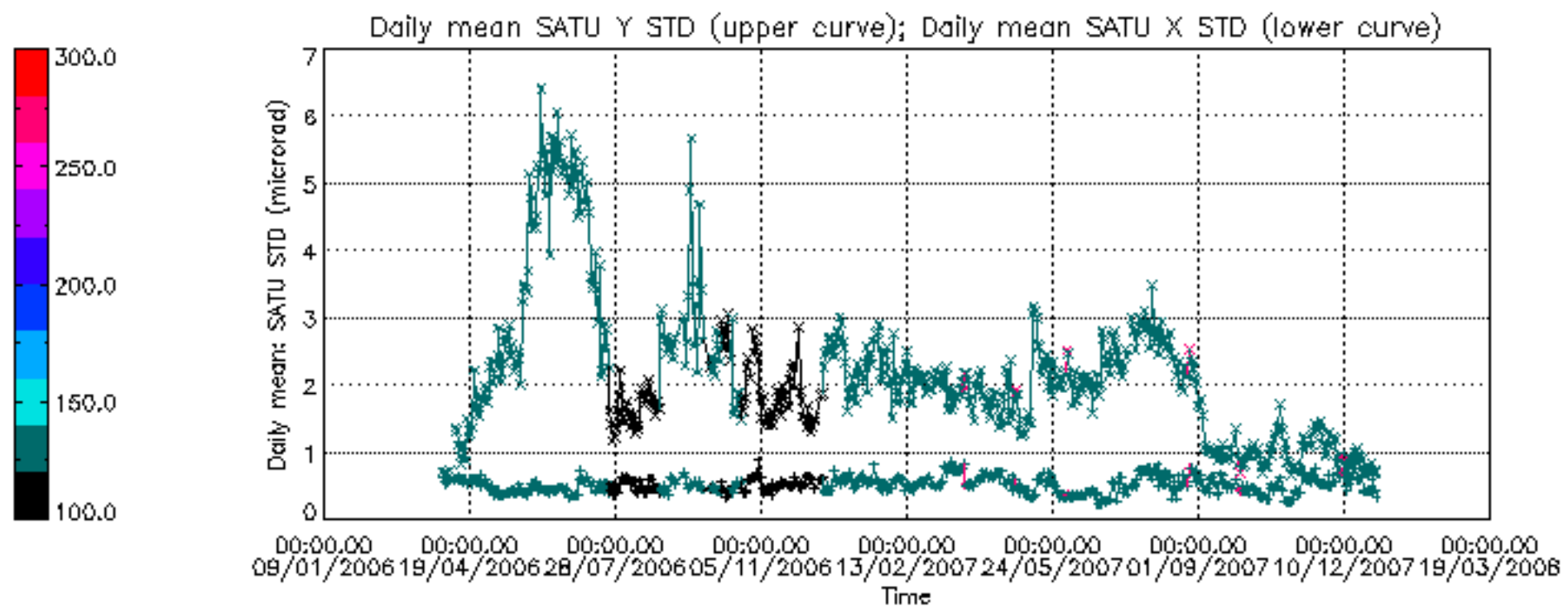


Tangent altitude at which the star is lost









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 3; -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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 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
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 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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 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
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 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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 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
 5; -1490.8; 01-JAN-2008 04:37:10; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 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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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
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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
18; 629.0; 01-JAN-2008 06:53:06; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30521
19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
20; 978.2; 01-JAN-2008 06:58:55; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;30521
21; 1320.4; 01-JAN-2008 07:04:37; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 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
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11; 3921.9; 01-JAN-2008 07:47:59; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30521
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 9; 2472.7; 01-JAN-2008 20:48:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30529
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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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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
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19; 5038.4; 03-JAN-2008 22:08:45; Bright; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;30558
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17; 5207.7; 03-JAN-2008 12:07:58; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30552
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15; 5037.3; 03-JAN-2008 13:45:44; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;30553
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 22; 6281.1; 03-JAN-2008 14:06:28; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30553
 23; 6444.3; 03-JAN-2008 14:09:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30553
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 17; 5209.0; 03-JAN-2008 15:29:11; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30554
 18; 5686.9; 03-JAN-2008 15:37:09; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30554
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 22; 6045.4; 03-JAN-2008 15:43:08; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;30554
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 27; 6775.5; 03-JAN-2008 15:55:18; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30554
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 29; 7023.0; 03-JAN-2008 15:59:25; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30554
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 5; 2031.9; 03-JAN-2008 16:16:50; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30555
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 23; 6045.7; 03-JAN-2008 17:23:44; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30555
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13; -166.4; 05-JAN-2008 06:13:59; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30577
14; -68.9; 05-JAN-2008 06:15:36; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30577
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17; 415.4; 05-JAN-2008 06:23:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30578
18; 566.7; 05-JAN-2008 06:26:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30578
19; 659.2; 05-JAN-2008 06:27:44; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30578
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21; 992.7; 05-JAN-2008 06:33:18; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30578
22; 1191.6; 05-JAN-2008 06:36:37; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30578
23; 1355.3; 05-JAN-2008 06:39:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30578
24; 1577.3; 05-JAN-2008 06:43:02; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30578
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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
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29; 2395.2; 05-JAN-2008 06:56:40; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 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
 18; 4609.8; 05-JAN-2008 20:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30586
 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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 21; 2394.8; 05-JAN-2008 22:02:03; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 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
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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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 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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 4; -1605.3; 05-JAN-2008 07:30:36; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 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
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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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 6; 2475.7; 05-JAN-2008 10:19:13; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;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
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 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
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 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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 10; 3423.8; 05-JAN-2008 12:15:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 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
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13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608
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19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608
20; 6064.3; 07-JAN-2008 10:15:47; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30608
21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608
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26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608
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4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609
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16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609
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22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609
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26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609
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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4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610
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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11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

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 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
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 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610
 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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 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611
 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611
 5; 2268.1; 07-JAN-2008 14:14:19; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30611
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 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30611
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 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611
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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
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611
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 26; 6799.1; 07-JAN-2008 15:29:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30611
 27; 7036.5; 07-JAN-2008 15:33:47; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;30611
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 4; 1889.0; 07-JAN-2008 15:48:36; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30612
 5; 2031.5; 07-JAN-2008 15:50:58; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;30612
 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30612
 7; 2395.3; 07-JAN-2008 15:57:02; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30612
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 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
 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612
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 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612
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 7; 2268.0; 07-JAN-2008 17:35:31; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30613
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11; 3424.3; 07-JAN-2008 17:54:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30613
12; 3680.9; 07-JAN-2008 17:59:03; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;30613
13; 3924.7; 07-JAN-2008 18:03:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30613
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16; 4615.2; 07-JAN-2008 18:14:38; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30613
17; 4920.3; 07-JAN-2008 18:19:43; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;30613
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19; 5382.1; 07-JAN-2008 18:27:25; Dark ; 40.5; 80; 7Del Sco ; 2.32; 30000;occ; 81; 0;30613
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22; 5888.5; 07-JAN-2008 18:35:51; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30613
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25;	6632.4;	11-JAN-2008	08:18:47;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30664
26;	6738.3;	11-JAN-2008	08:20:33;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	30664
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29;	7255.0;	11-JAN-2008	10:09:46;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	30665
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31;	7499.1;	11-JAN-2008	10:13:50;	Dark	;	41.0;	179;	240mi2CMa	;	3.03;	24000;occ;	82;	0;	30665
32;	7635.9;	11-JAN-2008	10:16:07;	Dark	;	46.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	93;	0;	30665

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3; 2188.7; 25-JAN-2008 09:45:41; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;30866
4; 2295.4; 25-JAN-2008 09:47:28; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30866
5; 2434.1; 25-JAN-2008 09:49:46; Bright; 40.0; 28; 12Bet Tau ; 1.65; 15200;occ; 80; 0;30866
6; 2549.1; 25-JAN-2008 09:51:41; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30866
7; 2677.3; 25-JAN-2008 09:53:49; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30866
8; 3426.8; 25-JAN-2008 10:06:19; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30866
9; 4085.7; 25-JAN-2008 10:17:18; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;30866

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 11; 4770.9; 25-JAN-2008 10:28:43; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30866
 12; 4897.2; 25-JAN-2008 10:30:49; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30866
 13; 5269.9; 25-JAN-2008 10:37:02; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;30866
 14; 5525.0; 25-JAN-2008 10:41:17; Dark ; 38.0; 136; 23Tau Sco ; 2.82; 30000;occ; 76; 0;30866
 15; 5613.1; 25-JAN-2008 10:42:45; Dark ; 35.5; 85; Kap Sco ; 2.41; 28000;occ; 71; 0;30866
 16; 5681.0; 25-JAN-2008 10:43:53; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30866
 17; 5795.7; 25-JAN-2008 10:45:48; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;30866
 18; 5890.9; 25-JAN-2008 10:47:23; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;30866
 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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 21; 6351.6; 25-JAN-2008 10:55:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30866
 22; 6451.3; 25-JAN-2008 10:56:43; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30866
 23; 6692.7; 25-JAN-2008 11:00:45; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30866
 24; 6824.4; 25-JAN-2008 11:02:56; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30866
 25; 6932.6; 25-JAN-2008 11:04:45; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;30866
 26; 7088.9; 25-JAN-2008 11:07:21; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;30866
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 28; 7304.4; 25-JAN-2008 11:10:57; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30866
 29; 7452.4; 25-JAN-2008 11:13:25; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;30866
 30; 7535.4; 25-JAN-2008 11:14:48; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;30866
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 3; 2188.7; 25-JAN-2008 11:26:17; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30867
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 12; 4897.6; 25-JAN-2008 12:11:26; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30867
 13; 5270.2; 25-JAN-2008 12:17:38; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;30867
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 17; 5796.0; 25-JAN-2008 12:26:24; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30867
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 21; 6351.9; 25-JAN-2008 12:35:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30867
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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
 26; 7089.2; 25-JAN-2008 12:47:57; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;30867
 27; 7215.6; 25-JAN-2008 12:50:04; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30867
 28; 7304.6; 25-JAN-2008 12:51:33; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30867
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 5; 2188.9; 25-JAN-2008 14:47:29; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30869
 6; 2295.8; 25-JAN-2008 14:49:16; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30869
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 8; 2549.6; 25-JAN-2008 14:53:29; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30869
 9; 2677.6; 25-JAN-2008 14:55:37; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30869
 10; 3426.9; 25-JAN-2008 15:08:07; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30869
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 13; 4771.7; 25-JAN-2008 15:30:31; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30869
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 22; 6179.3; 25-JAN-2008 15:53:59; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30869
 23; 6352.6; 25-JAN-2008 15:56:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30869
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 9; 2549.7; 25-JAN-2008 16:34:05; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30870
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 16; 5271.5; 25-JAN-2008 17:19:27; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30870
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 22; 6093.6; 25-JAN-2008 17:33:09; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30870
 23; 6179.8; 25-JAN-2008 17:34:35; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30870
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 24; 6093.9; 25-JAN-2008 19:13:46; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30871
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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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7; 2298.9; 27-JAN-2008 15:26:40; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30898
8; 2553.8; 27-JAN-2008 15:30:55; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30898
9; 2681.2; 27-JAN-2008 15:33:03; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30898
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11; 4086.9; 27-JAN-2008 15:56:28; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;30898
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13; 4778.8; 27-JAN-2008 16:08:00; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30898
14; 4905.6; 27-JAN-2008 16:10:07; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30898
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 23; 6701.4; 27-JAN-2008 16:40:03; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30898
 24; 6836.2; 27-JAN-2008 16:42:18; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;30898
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 3; 1422.3; 27-JAN-2008 16:52:40; Dark ; 37.5; 23; 21Eps CMA ; 1.50; 26000;occ; 75; 0;30899
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 5; 1634.3; 27-JAN-2008 16:56:12; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30899
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 13; 4294.9; 27-JAN-2008 17:40:32; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30899
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 18; 5609.6; 27-JAN-2008 18:02:27; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30899
 19; 5688.1; 27-JAN-2008 18:03:46; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30899
 20; 6103.4; 27-JAN-2008 18:10:41; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30899
 21; 6194.7; 27-JAN-2008 18:12:12; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 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
 13; 4087.0; 27-JAN-2008 19:17:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30900
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 16; 4906.1; 27-JAN-2008 19:31:20; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30900
 17; 5283.4; 27-JAN-2008 19:37:37; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30900
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 19; 5610.0; 27-JAN-2008 19:43:04; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;30900
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 22; 6103.8; 27-JAN-2008 19:51:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30900
 23; 6195.1; 27-JAN-2008 19:52:49; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30900
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 27; 6836.9; 27-JAN-2008 20:03:30; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30900
 28; 6944.2; 27-JAN-2008 20:05:18; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;30900

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 17; 4084.1; 22-JAN-2008 21:55:43; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30830
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 19; 4762.5; 22-JAN-2008 22:07:01; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30830
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 9; 305.9; 22-JAN-2008 22:33:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30831
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 26; 2545.1; 22-JAN-2008 23:10:40; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30831
 27; 2674.2; 22-JAN-2008 23:12:49; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30831
 28; 3426.3; 22-JAN-2008 23:25:21; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30831
 29; 4084.1; 22-JAN-2008 23:36:19; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;30831
 30; 4283.3; 22-JAN-2008 23:39:38; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30831
 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
 33; 5257.3; 22-JAN-2008 23:55:52; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;30831

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 9; 395.9; 23-JAN-2008 00:15:26; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;30832
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17; 1493.4; 23-JAN-2008 00:33:44; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;30832
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19; 1776.9; 23-JAN-2008 00:38:27; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;30832
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27; 2682.3; 28-JAN-2008 04:57:51; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30906
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