

GOMOS Daily Report 02-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	04JAN2008 06:14:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03JAN2008 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)

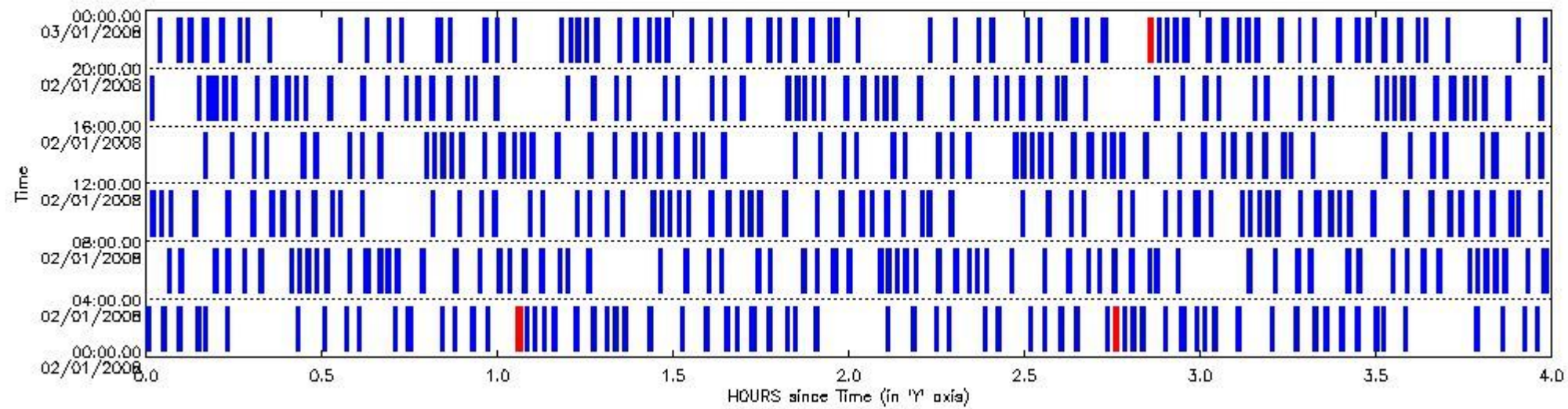
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

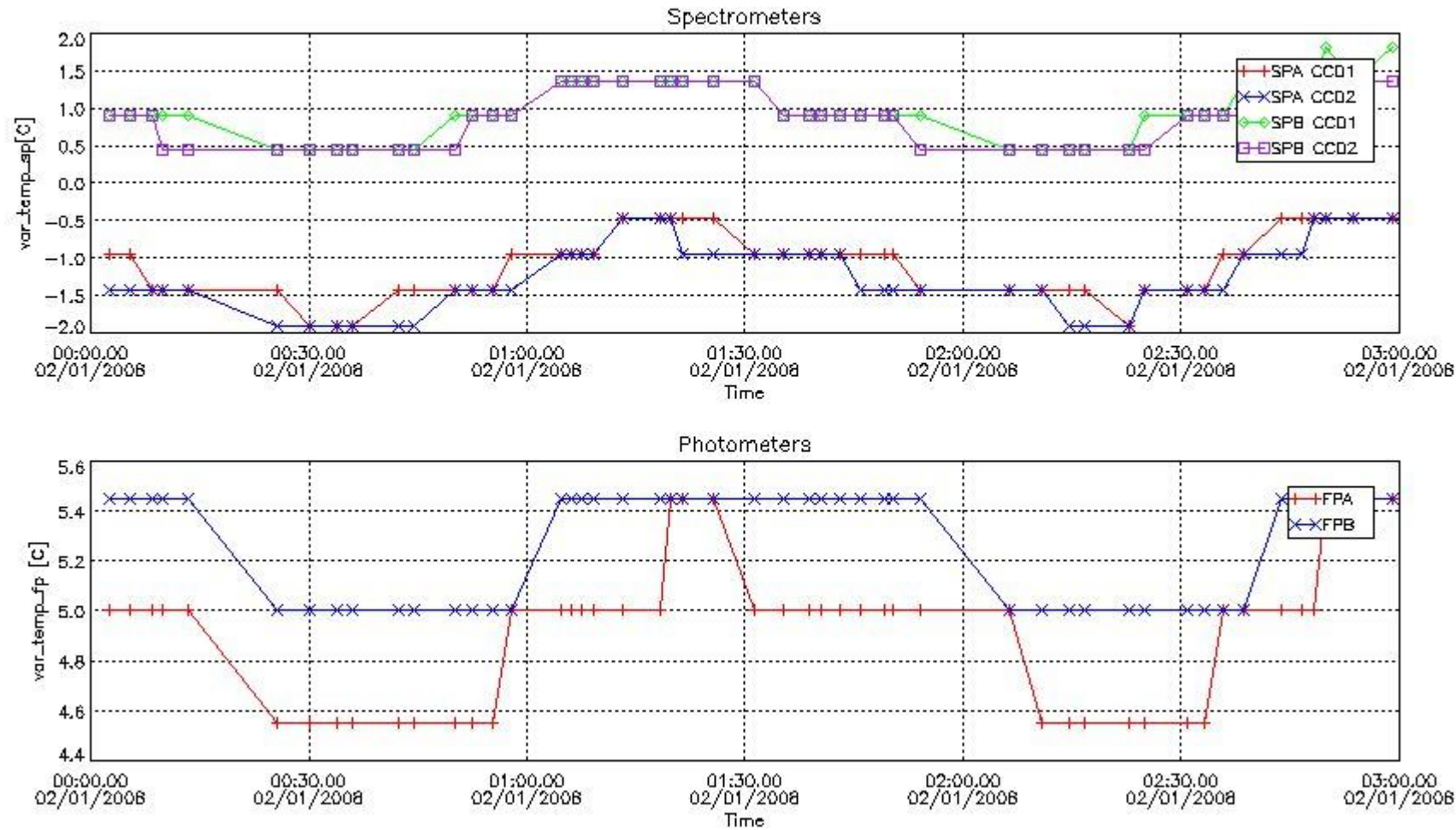
UTC start time	Star name	Star ID	Orbit
02-JAN-2008 01:03:14	GamLup	131	30531
02-JAN-2008 02:45:10	BetLup	109	30532
02-JAN-2008 22:51:05	GamLup	131	30544

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_1PNPDE20080102_000229_000000552064_00417_30531_0284.N1	02-JAN-2008 00:02:29	Twl_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	30531	No
2	GOM_TRA_1PNPDE20080102_000519_000000522064_00417_30531_0285.N1	02-JAN-2008 00:05:19	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30531	No
3	GOM_TRA_1PNPDE20080102_000833_000000392064_00417_30531_0286.N1	02-JAN-2008 00:08:33	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30531	No
4	GOM_TRA_1PNPDE20080102_000949_000000382064_00417_30531_0287.N1	02-JAN-2008 00:09:49	Bright	37.500	114	3Iot Aur	2.6930	4600.0	75	30531	No
5	GOM_TRA_1PNPDE20080102_001329_000000422064_00417_30531_0288.N1	02-JAN-2008 00:13:29	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	30531	No
6	GOM_TRA_1PNPDE20080102_002540_000000322064_00417_30531_0289.N1	02-JAN-2008 00:25:40	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30531	No
7	GOM_TRA_1PNPDE20080102_003007_000000342064_00417_30531_0290.N1	02-JAN-2008 00:30:07	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	30531	No
8	GOM_TRA_1PNPDE20080102_003359_000000362064_00417_30531_0291.N1	02-JAN-2008 00:33:59	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30531	No

9	GOM_TRA_1PNPDE20080102_003606_000000362064_00417_30531_0292.N1	02-JAN-2008 00:36:06	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30531	No
10	GOM_TRA_1PNPDE20080102_004219_000000342064_00417_30531_0293.N1	02-JAN-2008 00:42:19	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	30531	No
11	GOM_TRA_1PNPDE20080102_004424_000000552064_00417_30531_0294.N1	02-JAN-2008 00:44:24	Bright	55.000	67	5Alp CrB	2.2210	11000.	110	30531	No
12	GOM_TRA_1PNPDE20080102_005009_000000362064_00417_30531_0295.N1	02-JAN-2008 00:50:09	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	30531	No
13	GOM_TRA_1PNPDE20080102_005228_000000342064_00417_30531_0296.N1	02-JAN-2008 00:52:28	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	30531	No
14	GOM_TRA_1PNPDE20080102_005514_000000562064_00417_30531_0297.N1	02-JAN-2008 00:55:14	Bright	56.000	104	27Bet Lib	2.6140	13100.	112	30531	No
15	GOM_TRA_1PNPDE20080102_005754_000000432064_00417_30531_0424.N1	02-JAN-2008 00:57:54	Twilight	42.500	122	9Alp2Lib	2.7470	9700.0	85	30531	No
16	GOM_TRA_1PNPDE20080102_010435_000000372064_00417_30531_0425.N1	02-JAN-2008 01:04:35	Dark	37.000	109	Bet Lup	2.6770	26000.	74	30531	No
17	GOM_TRA_1PNPDE20080102_010604_000000382064_00417_30531_0426.N1	02-JAN-2008 01:06:04	Dark	38.000	78	Alp Lup	2.3040	28000.	76	30531	No
18	GOM_TRA_1PNPDE20080102_010733_000000402064_00417_30531_0427.N1	02-JAN-2008 01:07:33	Dark	40.000	95	Zet Cen	2.5450	26000.	80	30531	No
19	GOM_TRA_1PNPDE20080102_010914_000000522064_00418_30532_0428.N1	02-JAN-2008 01:09:14	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	30532	No
20	GOM_TRA_1PNPDE20080102_011306_000000432064_00418_30532_0429.N1	02-JAN-2008 01:13:06	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30532	No
21	GOM_TRA_1PNPDE20080102_011822_000000382064_00418_30532_0430.N1	02-JAN-2008 01:18:22	Dark	38.000	29	Bet Car	1.6720	10200.	76	30532	No
22	GOM_TRA_1PNPDE20080102_011947_000000482064_00418_30532_0431.N1	02-JAN-2008 01:19:47	Dark	47.500	71	lot Car	2.2460	7700.0	95	30532	No
23	GOM_TRA_1PNPDE20080102_012121_000000452064_00418_30532_0432.N1	02-JAN-2008 01:21:21	Dark	44.500	41	Eps Car	1.8600	4100.0	89	30532	No
24	GOM_TRA_1PNPDE20080102_012533_000000452064_00418_30532_0433.N1	02-JAN-2008 01:25:33	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30532	No
25	GOM_TRA_1PNPDE20080102_013115_000000392064_00418_30532_0434.N1	02-JAN-2008 01:31:15	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30532	No
26	GOM_TRA_1PNPDE20080102_013523_000000442064_00418_30532_0435.N1	02-JAN-2008 01:35:23	Straylight	43.500	47	2Bet CMa	1.9760	28000.	87	30532	No
27	GOM_TRA_1PNPDE20080102_013843_000000452064_00418_30532_0436.N1	02-JAN-2008 01:38:43	Straylight	44.500	7	19Bet Ori	0.10000	14000.	89	30532	No
28	GOM_TRA_1PNPDE20080102_014034_000000422064_00418_30532_0437.N1	02-JAN-2008 01:40:34	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30532	No
29	GOM_TRA_1PNPDE20080102_014305_000000552064_00418_30532_0438.N1	02-JAN-2008 01:43:05	Twilight	55.000	14	58Alp Ori	0.87000	3000.0	110	30532	No
30	GOM_TRA_1PNPDE20080102_014555_000000522064_00418_30532_0439.N1	02-JAN-2008 01:45:55	Bright	51.500	13	87Alp Tau	0.86700	3800.0	103	30532	No
31	GOM_TRA_1PNPDE20080102_014909_000000392064_00418_30532_0440.N1	02-JAN-2008 01:49:09	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30532	No
32	GOM_TRA_1PNPDE20080102_015025_000000382064_00418_30532_0441.N1	02-JAN-2008 01:50:25	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30532	No
33	GOM_TRA_1PNPDE20080102_015404_000000422064_00418_30532_0442.N1	02-JAN-2008 01:54:04	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	30532	No
34	GOM_TRA_1PNPDE20080102_020616_000000352064_00418_30532_0443.N1	02-JAN-2008 02:06:16	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30532	No
35	GOM_TRA_1PNPDE20080102_021042_000000382064_00418_30532_0444.N1	02-JAN-2008 02:10:42	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30532	No
36	GOM_TRA_1PNPDE20080102_021434_000000372064_00418_30532_0602.N1	02-JAN-2008 02:14:34	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30532	No
37	GOM_TRA_1PNPDE20080102_021642_000000362064_00418_30532_0603.N1	02-JAN-2008 02:16:42	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30532	No
38	GOM_TRA_1PNPDE20080102_022256_000000402064_00418_30532_0604.N1	02-JAN-2008 02:22:56	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	30532	No
39	GOM_TRA_1PNPDE20080102_022500_000000552064_00418_30532_0605.N1	02-JAN-2008 02:25:00	Bright	55.000	67	5Alp CrB	2.2210	11000.	110	30532	No
40	GOM_TRA_1PNPDE20080102_023045_000000362064_00418_30532_0606.N1	02-JAN-2008 02:30:45	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	30532	No
41	GOM_TRA_1PNPDE20080102_023304_000000342064_00418_30532_0607.N1	02-JAN-2008 02:33:04	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	30532	No
42	GOM_TRA_1PNPDE20080102_023550_000000412064_00418_30532_0608.N1	02-JAN-2008 02:35:50	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	30532	No
43	GOM_TRA_1PNPDE20080102_023831_000000412064_00418_30532_0609.N1	02-JAN-2008 02:38:31	Twilight	41.000	122	9Alp2Lib	2.7470	9700.0	82	30532	No
44	GOM_TRA_1PNPDE20080102_024352_000000362064_00418_30532_0610.N1	02-JAN-2008 02:43:52	Dark	35.500	131	Gam Lup	2.8000	26000.	71	30532	No
45	GOM_TRA_1PNPDE20080102_024640_000000402064_00418_30532_0611.N1	02-JAN-2008 02:46:40	Dark	39.500	78	Alp Lup	2.3040	28000.	79	30532	No
46	GOM_TRA_1PNPDE20080102_024810_000000412064_00418_30532_0612.N1	02-JAN-2008 02:48:10	Dark	40.500	95	Zet Cen	2.5450	26000.	81	30532	No
47	GOM_TRA_1PNPDE20080102_024950_000000422064_00419_30533_0613.N1	02-JAN-2008 02:49:50	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	30533	No
48	GOM_TRA_1PNPDE20080102_025342_000000392064_00419_30533_0614.N1	02-JAN-2008 02:53:42	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	30533	No
49	GOM_TRA_1PNPDE20080102_025859_000000382064_00419_30533_0615.N1	02-JAN-2008 02:58:59	Dark	38.000	29	Bet Car	1.6720	10200.	76	30533	No

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



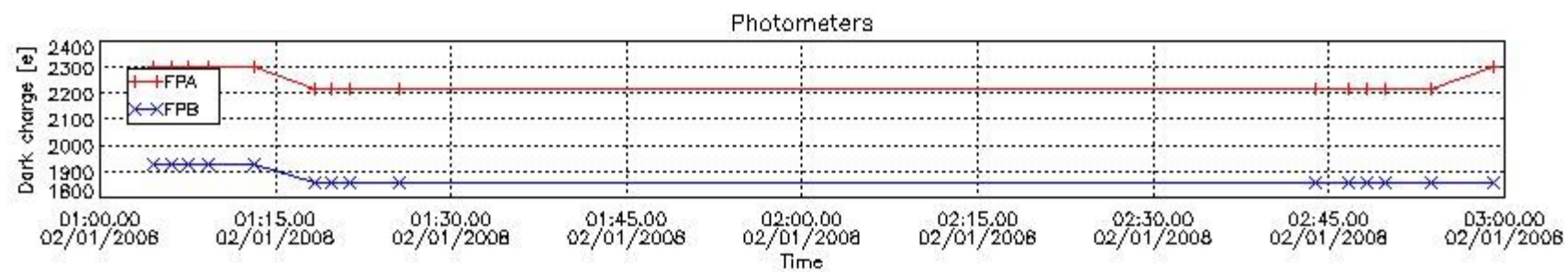
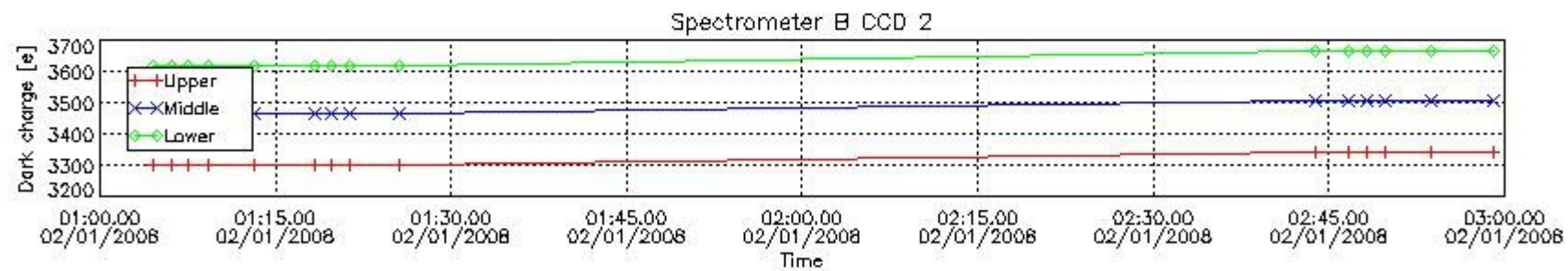
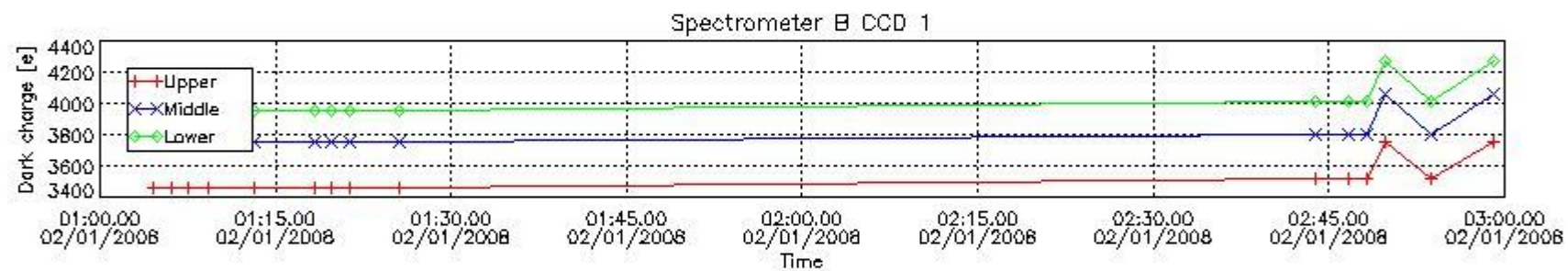
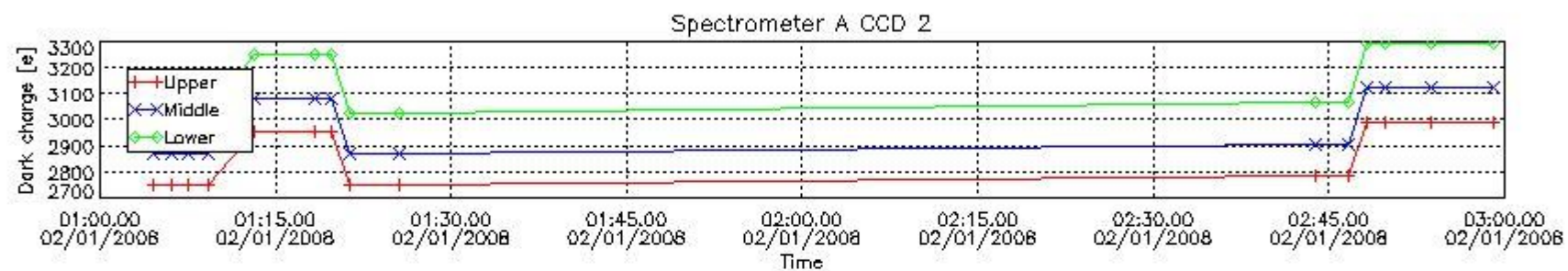
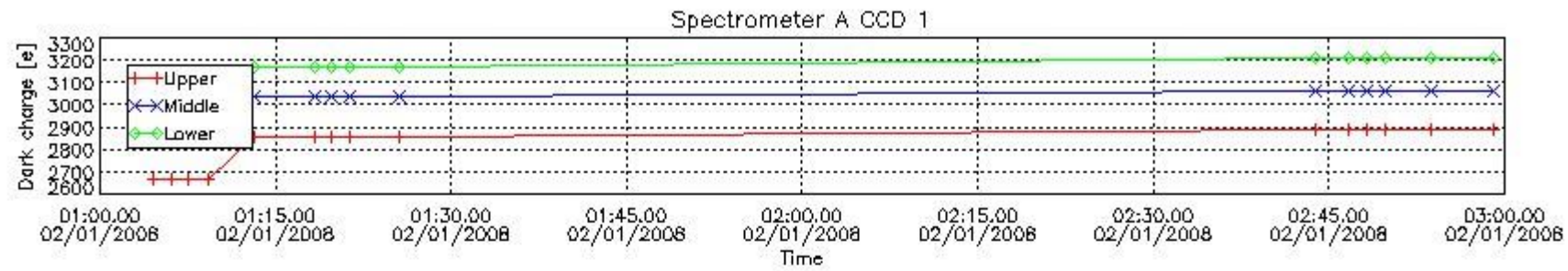
4. Overview of dark signal processing per product

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



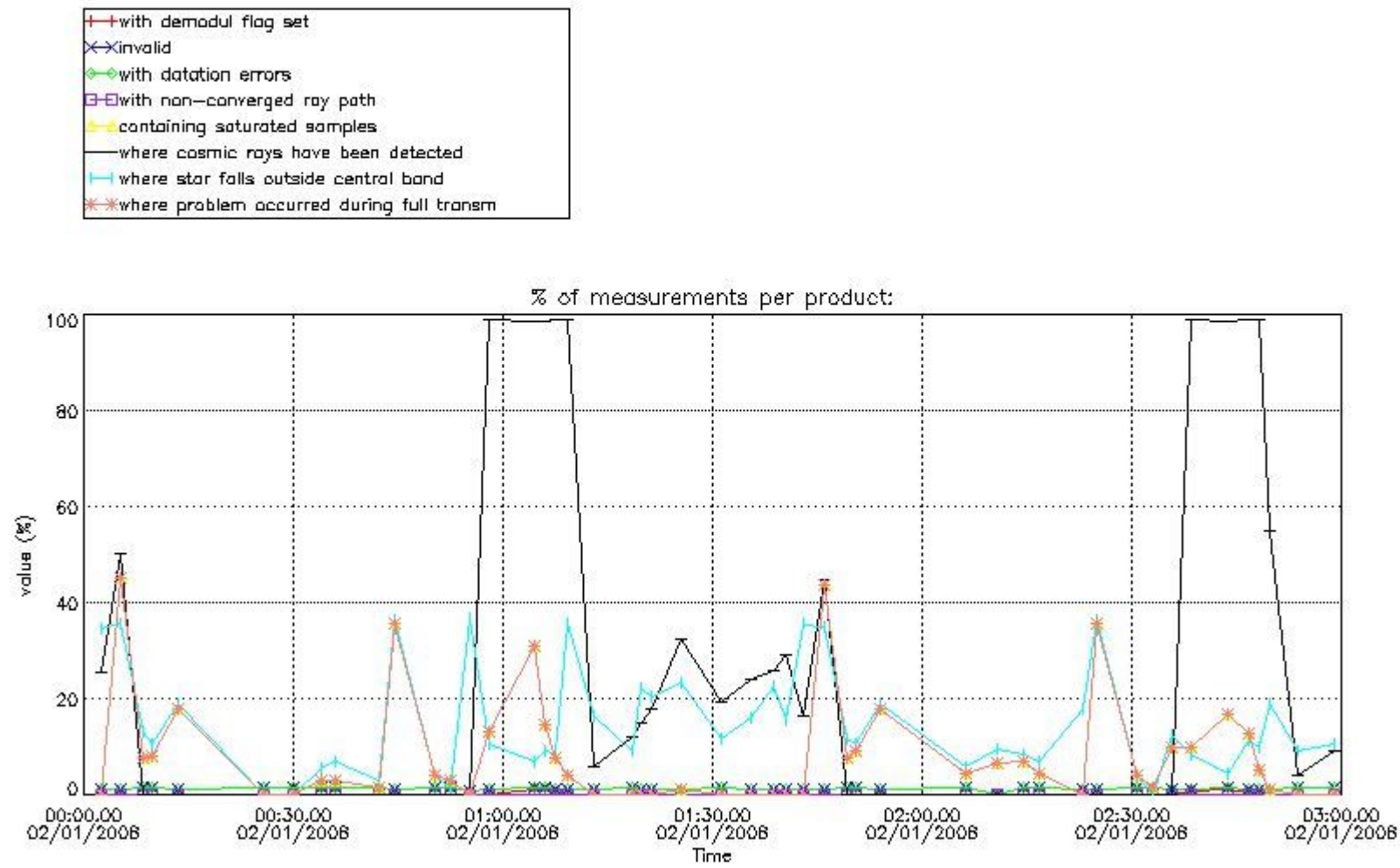
5. Demodulation flag and quality information monitoring

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.

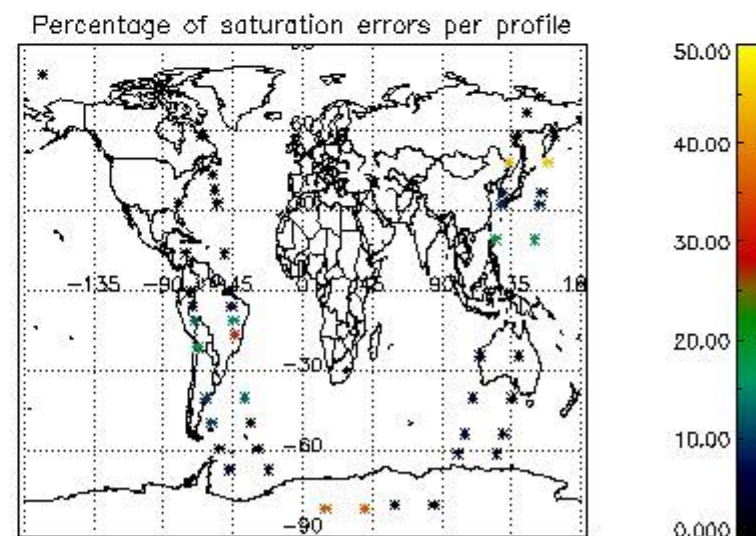
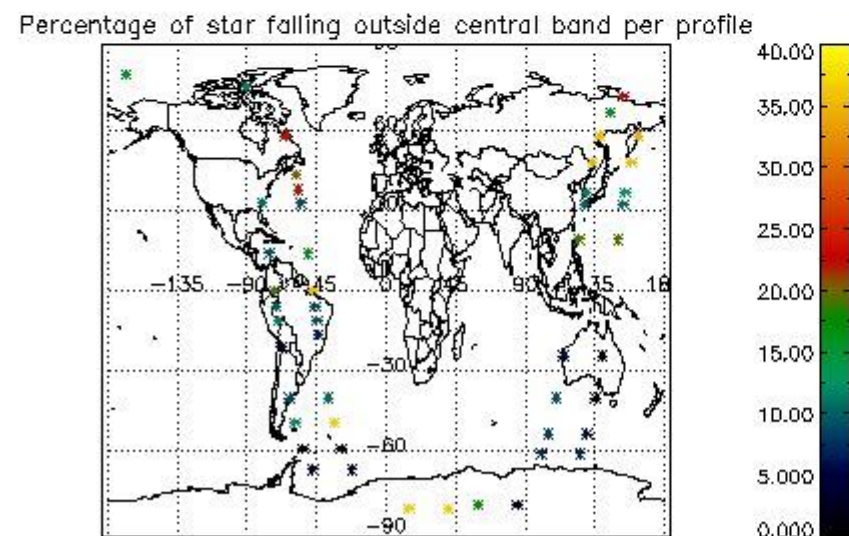
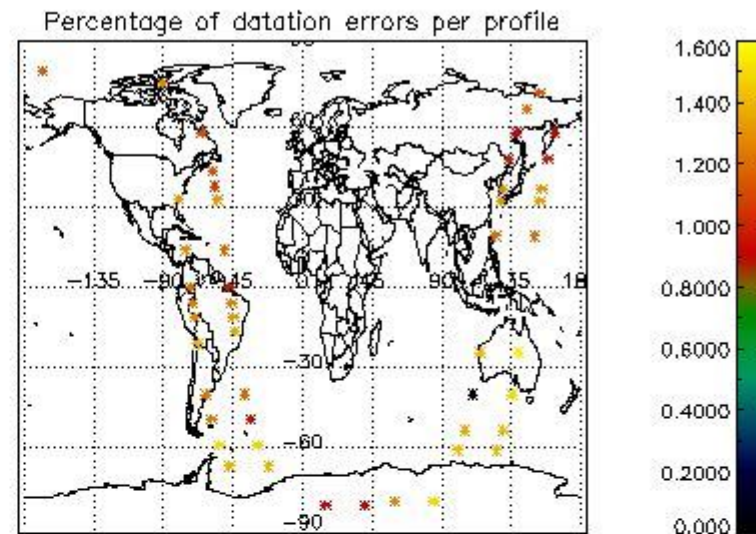
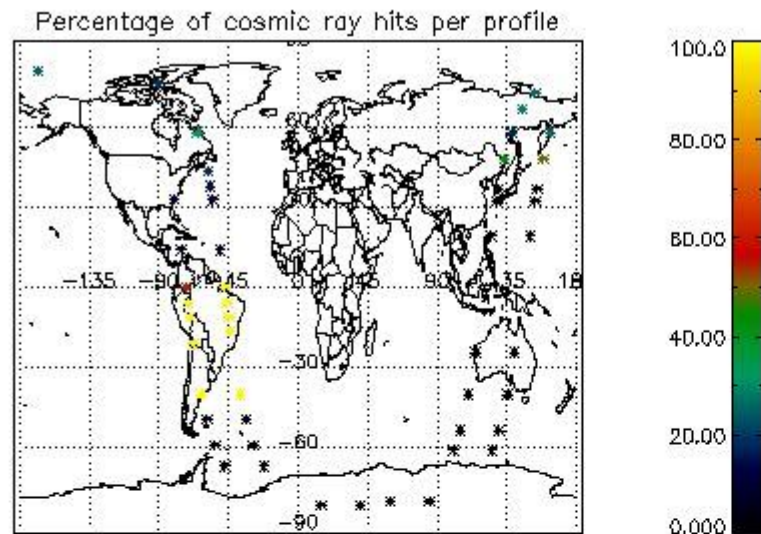
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



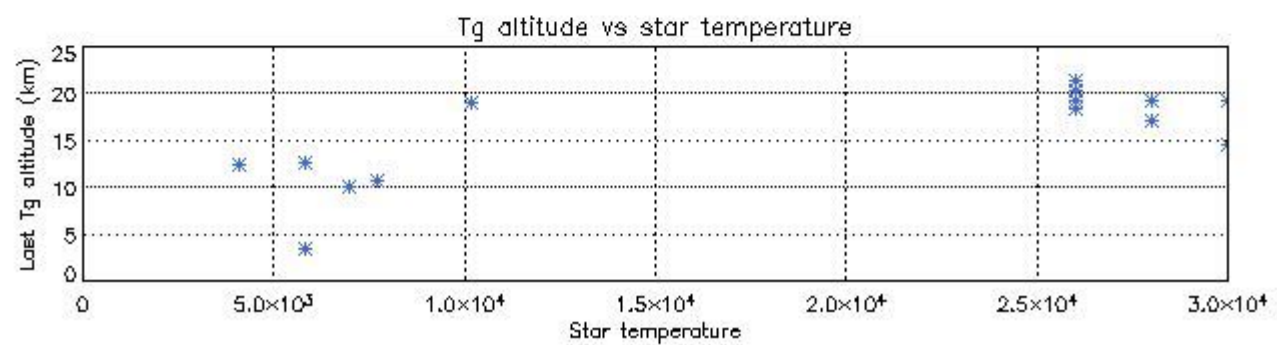
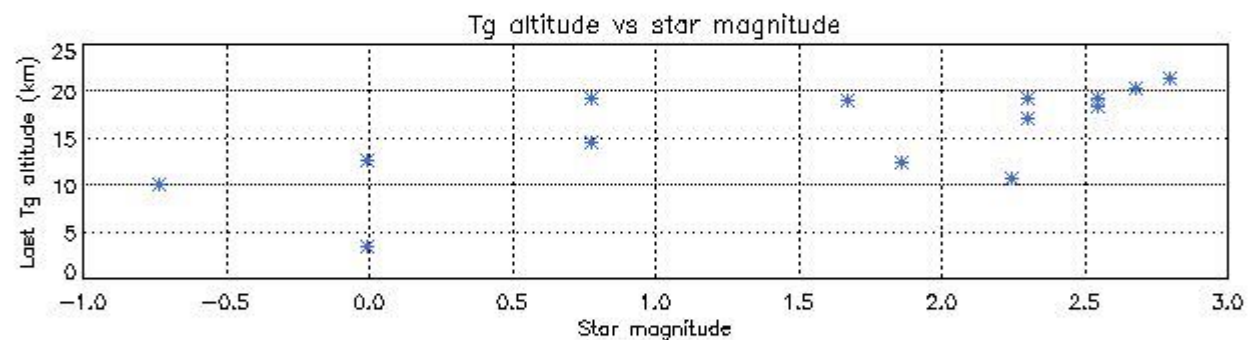
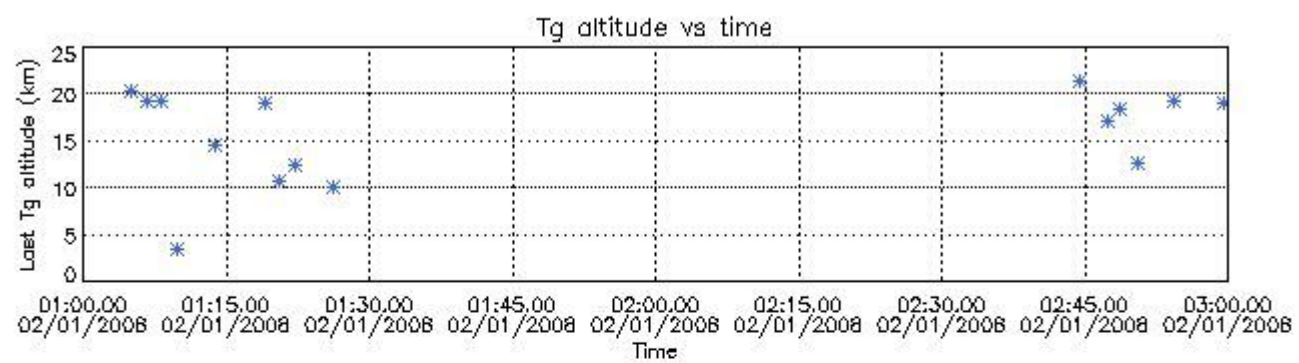
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.786	17.185	NaN
St. deviation:	5.0432	7.7073	NaN
Maximum:	21.361	29.356	NaN
Minimum:	3.4190	3.7650	NaN
Number of data:	15.000	26.000	NaN

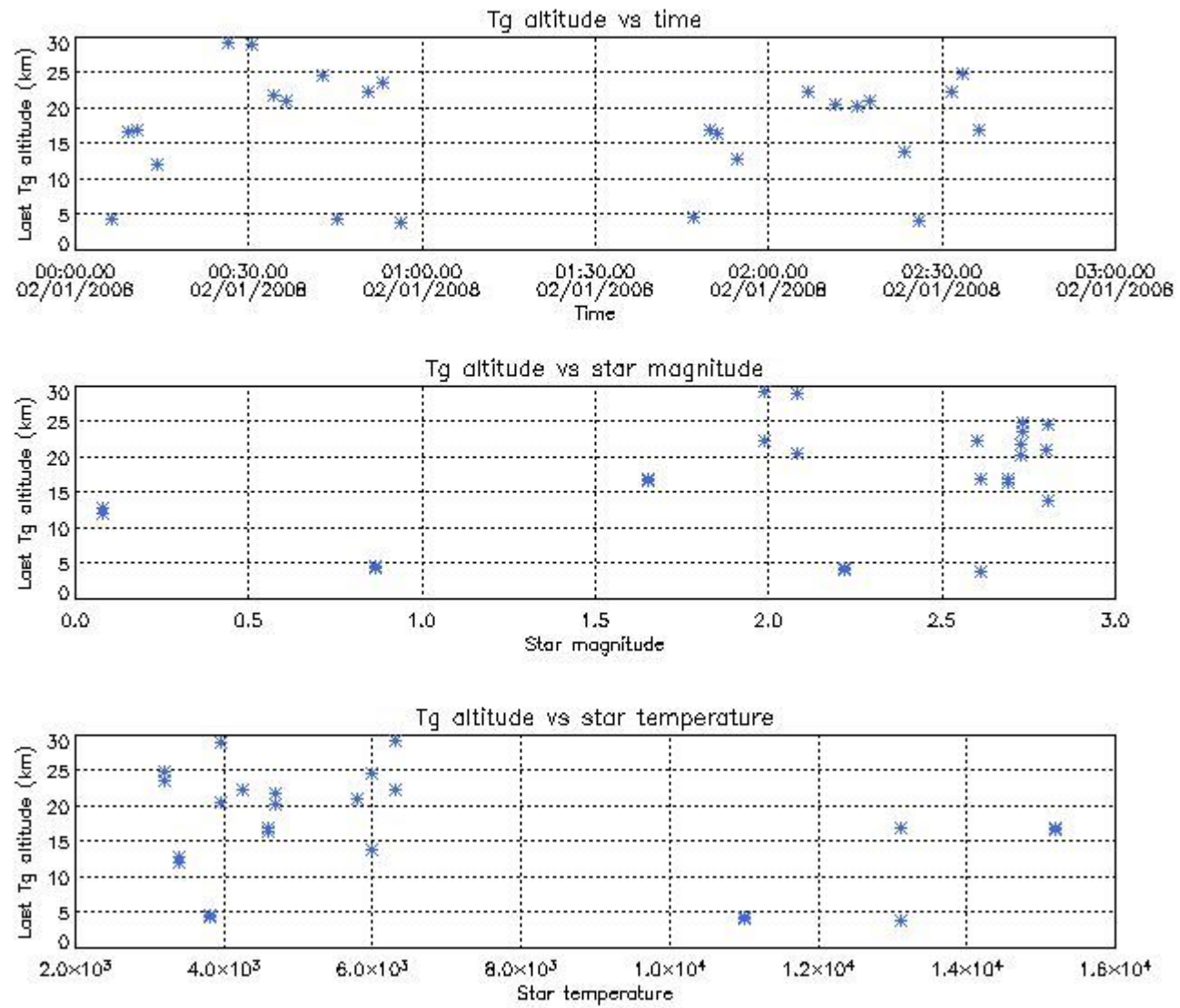
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

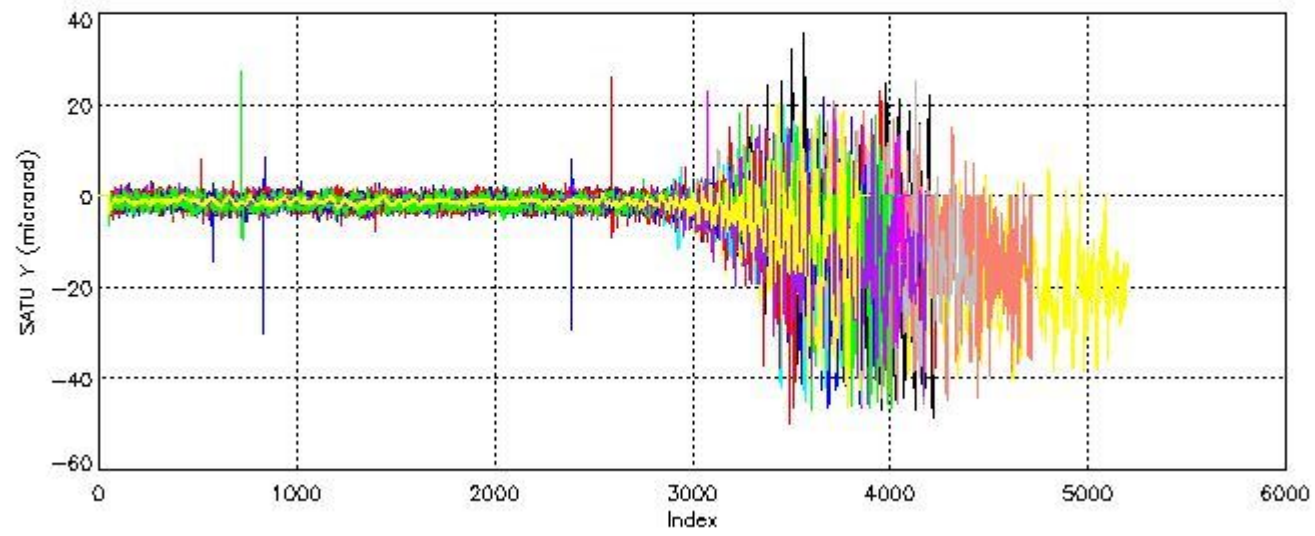
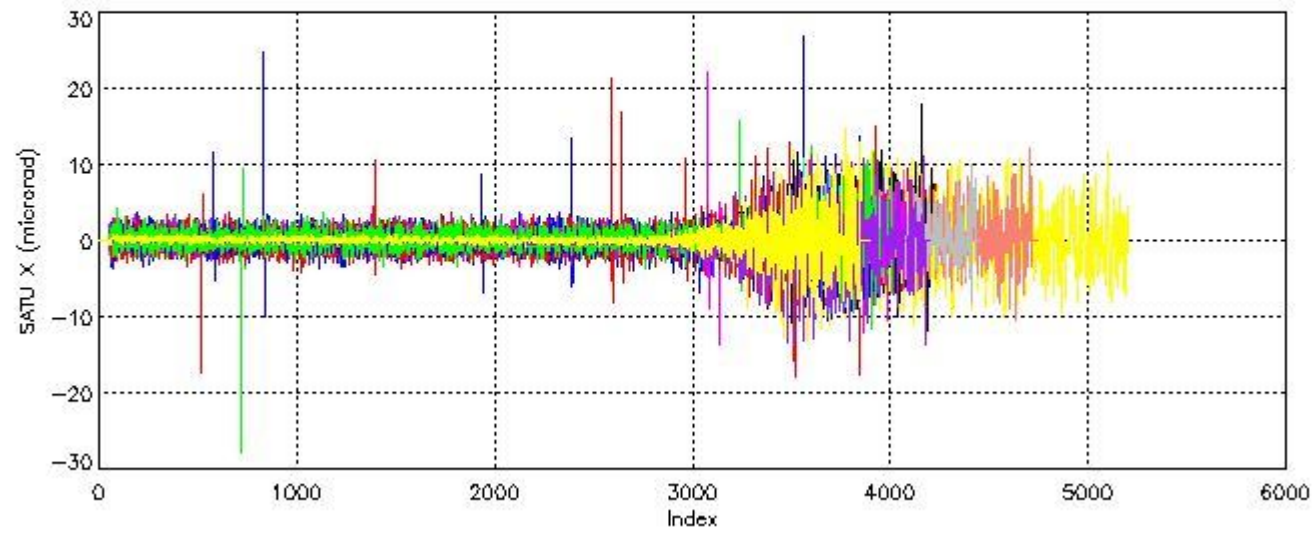


7. Star Acquisition and Tracking Unit (SATU)

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:	0.076252	-1.2952	0.0014094	-1.3541
St. deviation:	0.65405	0.91409	0.58932	0.88435
Maximum:	24.700	27.100	3.5000	2.5000
Minimum:	-27.900	-30.200	-3.6000	-5.9000

Number of data:	13250.	13250.	21500.	21500.
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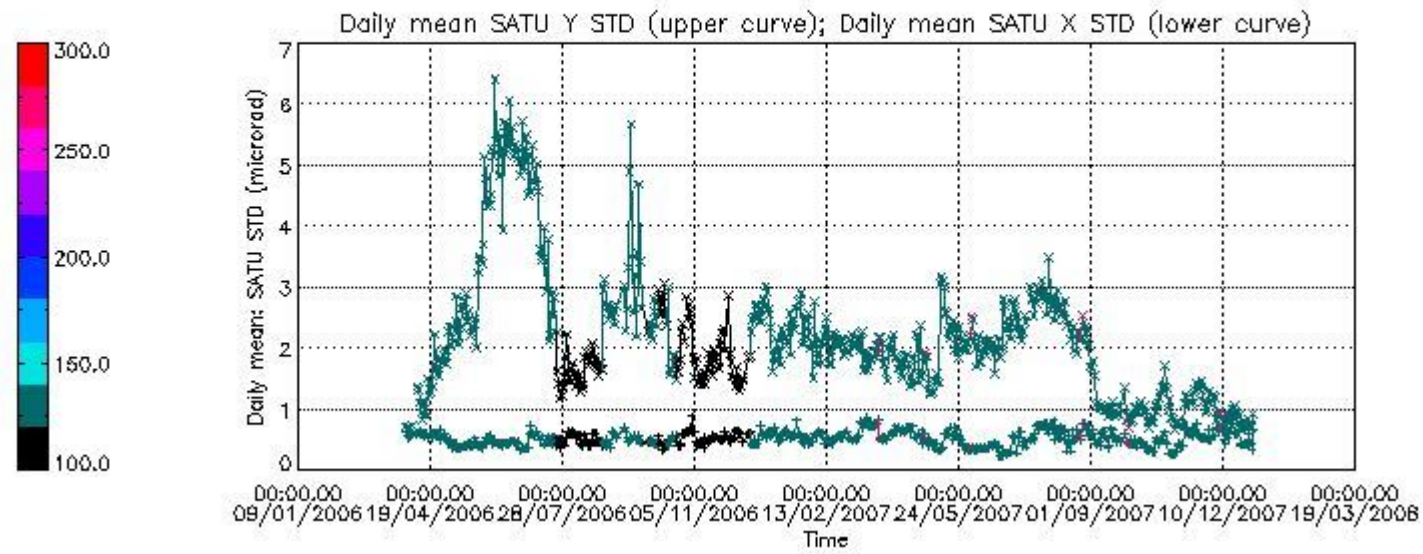
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

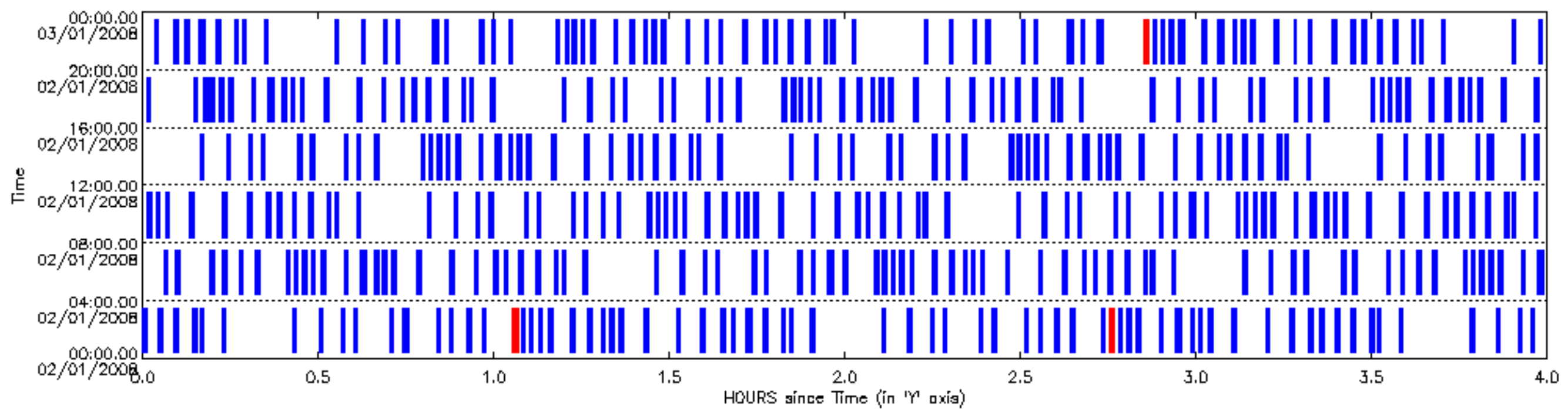
Lower curve: STD of SATU X axis

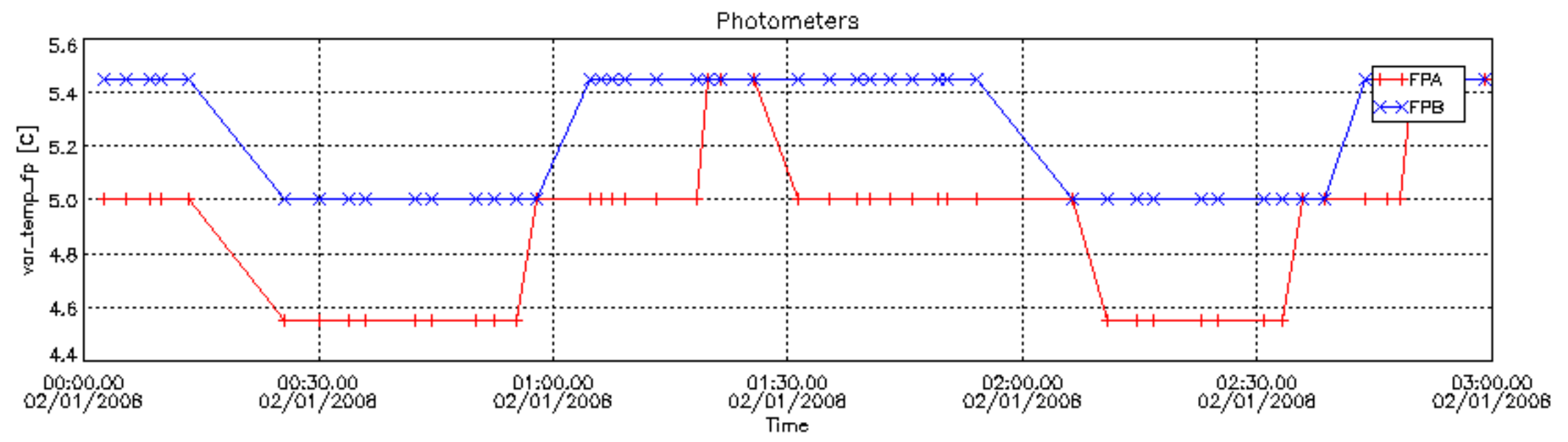
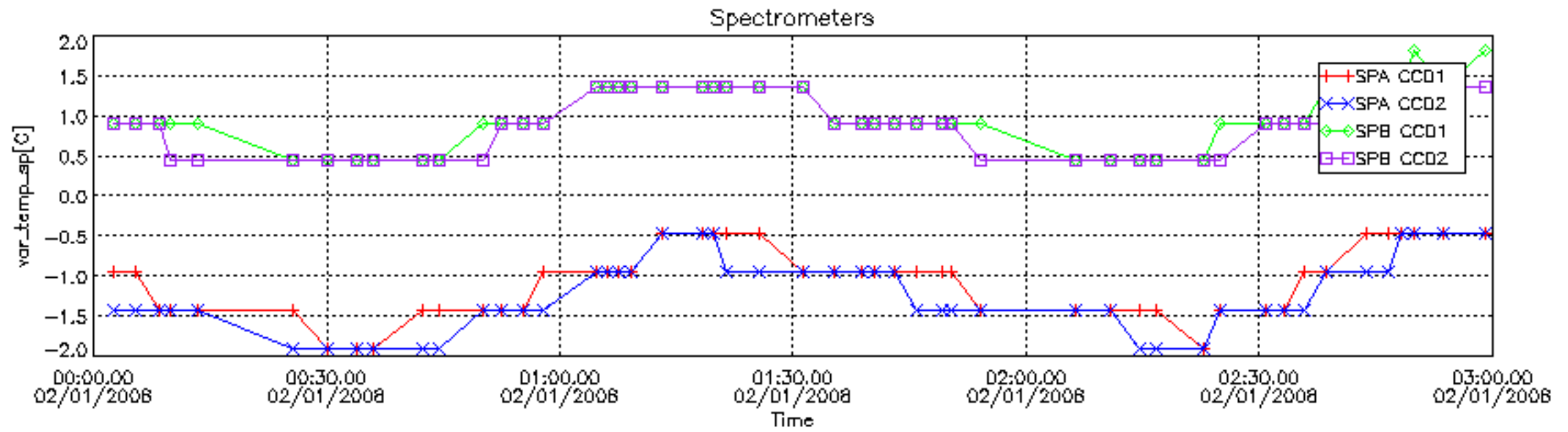


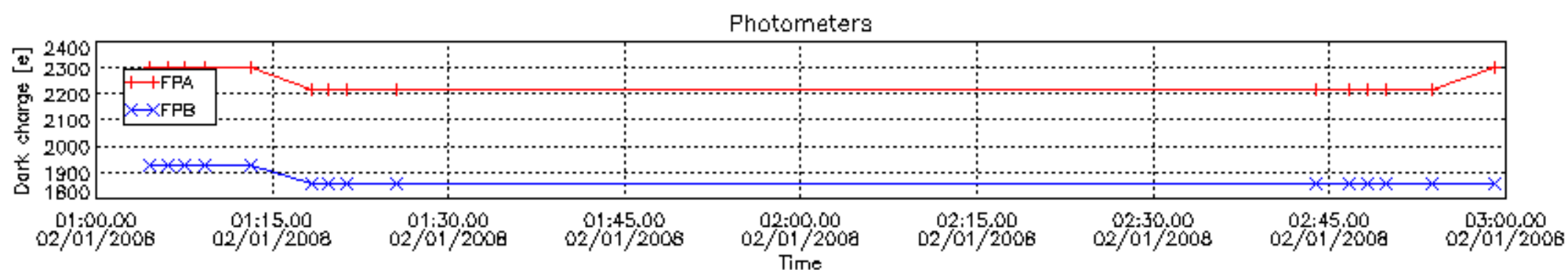
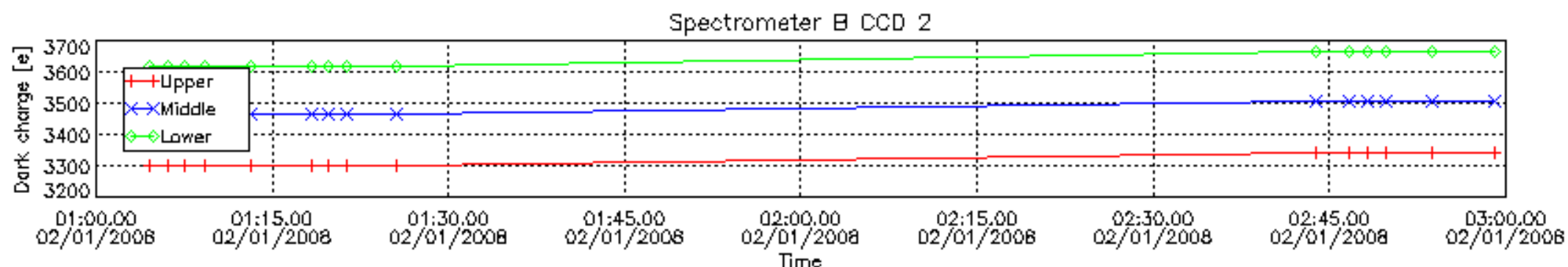
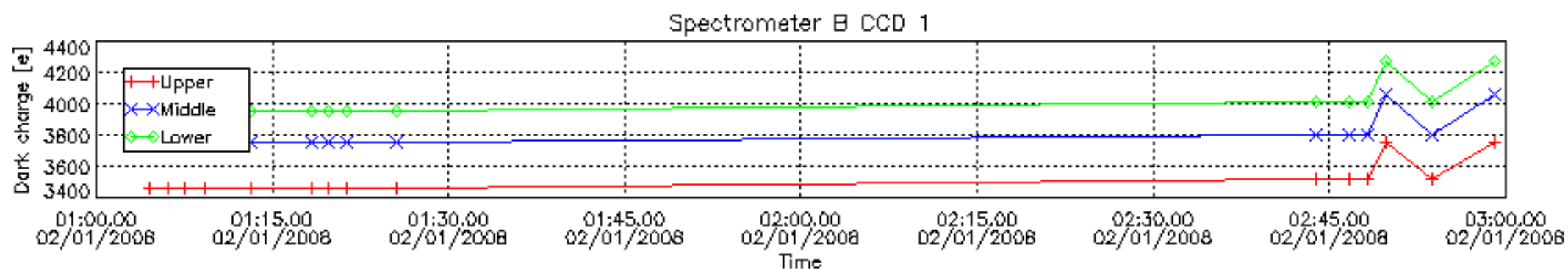
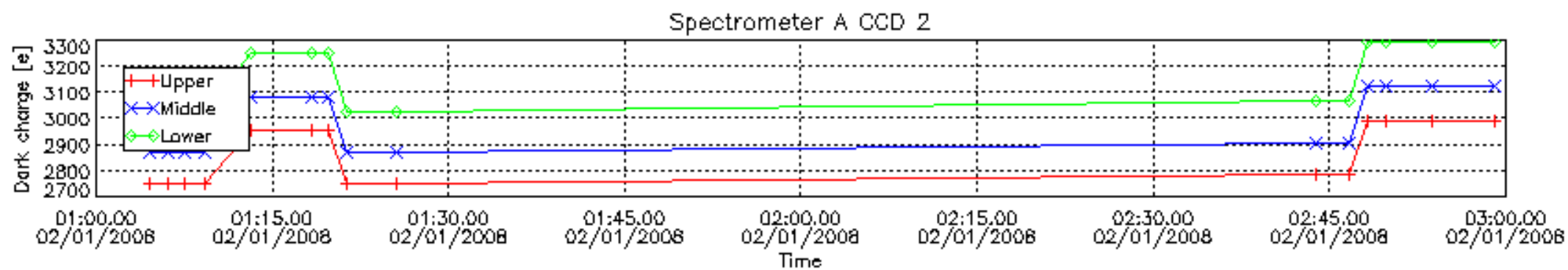
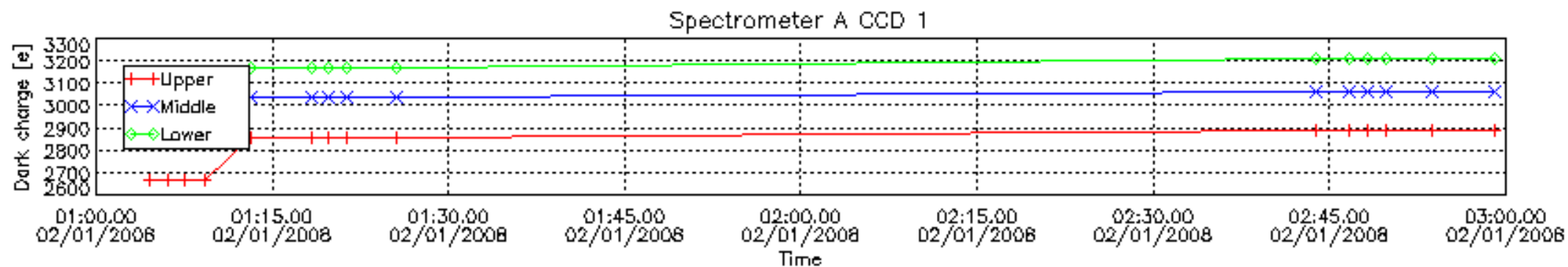
8. Auxiliary Data Files used for the production reported in section 2.4

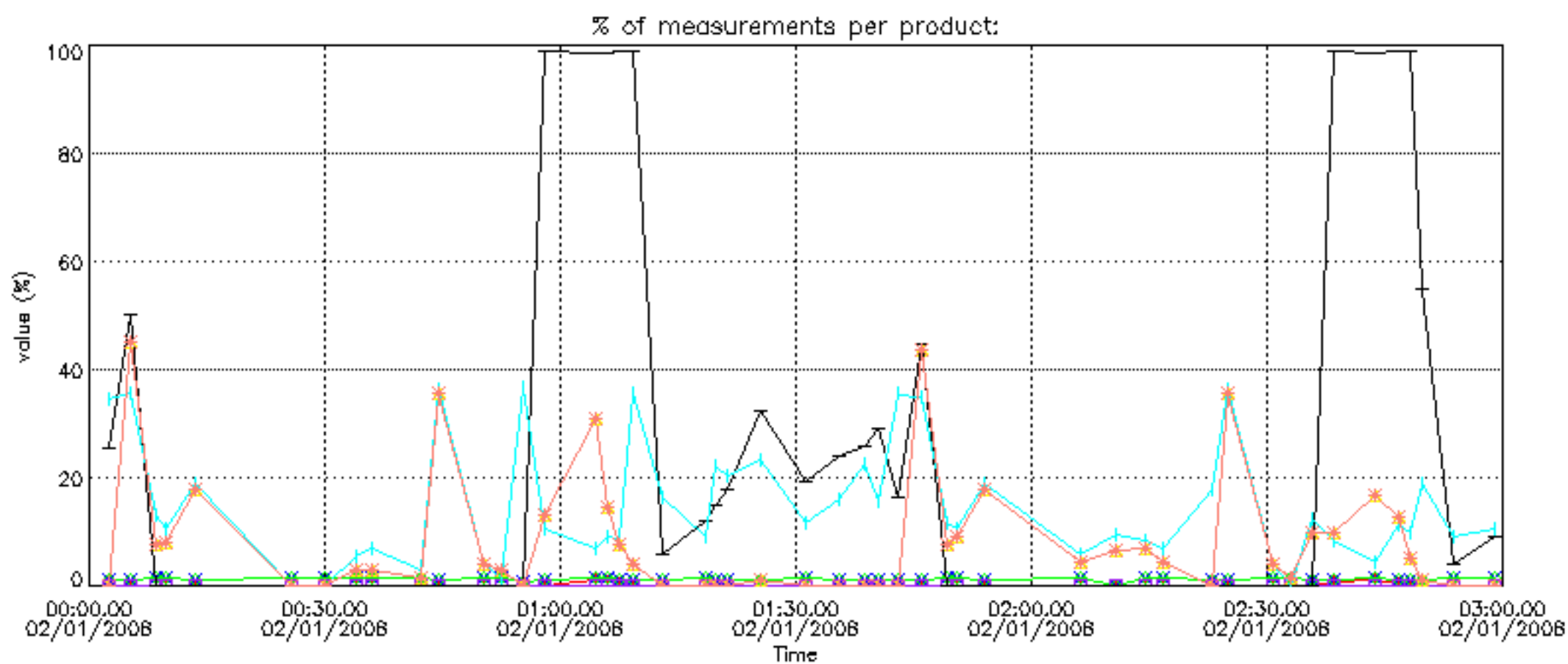
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-JAN-2008 00:02:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	02-JAN-2008 00:02:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-JAN-2008 00:02:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-JAN-2008 00:02:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-JAN-2008 00:02:29
ECMWF_FILE	AUX_ECF_AXNECM20080101_073111_20080101_210000_20080102_090000	1	02-JAN-2008 00:02:29
OPTIONAL_ECMWF_FILE	MISSING	1	02-JAN-2008 00:02:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080101_213012_000057382064_00415_30529_4865.N1	1	02-JAN-2008 00:02:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080101_231109_000060572064_00416_30530_4866.N1	15	02-JAN-2008 00:57:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080102_005206_000044632064_00417_30531_4867.N1	36	02-JAN-2008 02:14:34

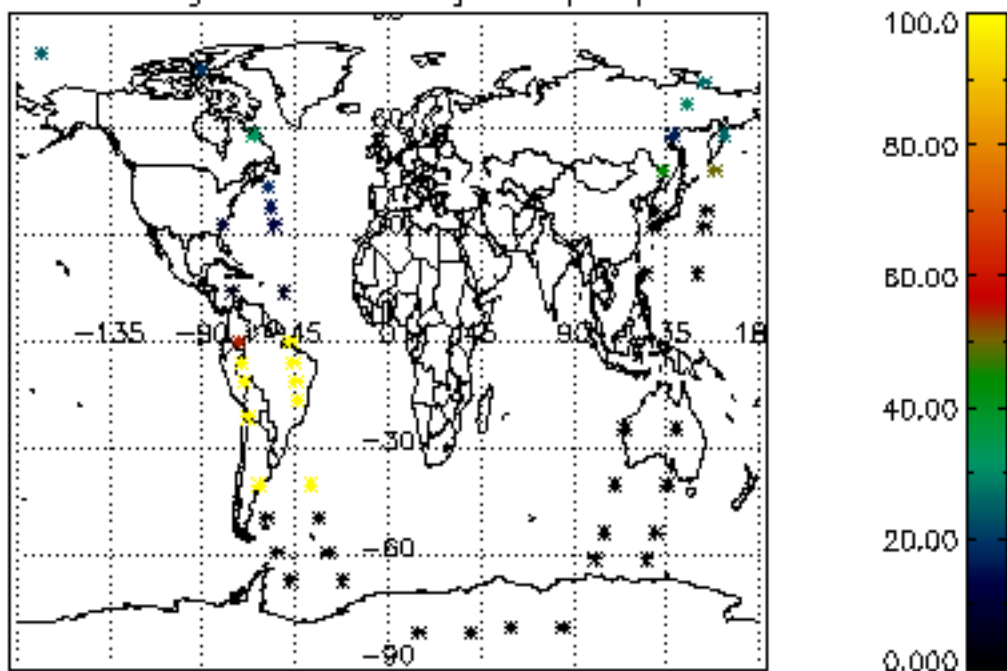




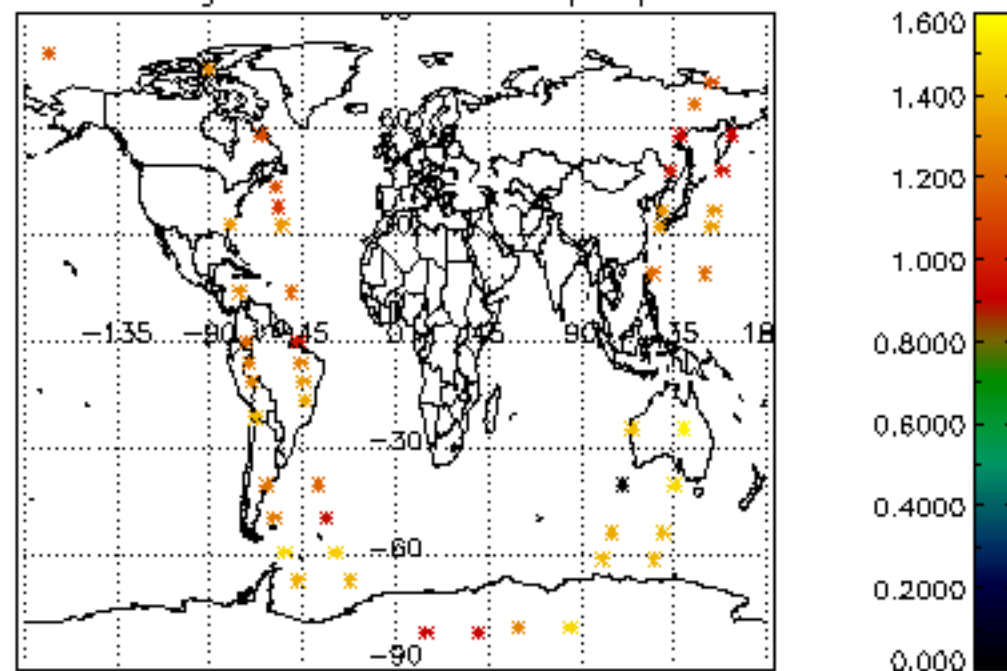




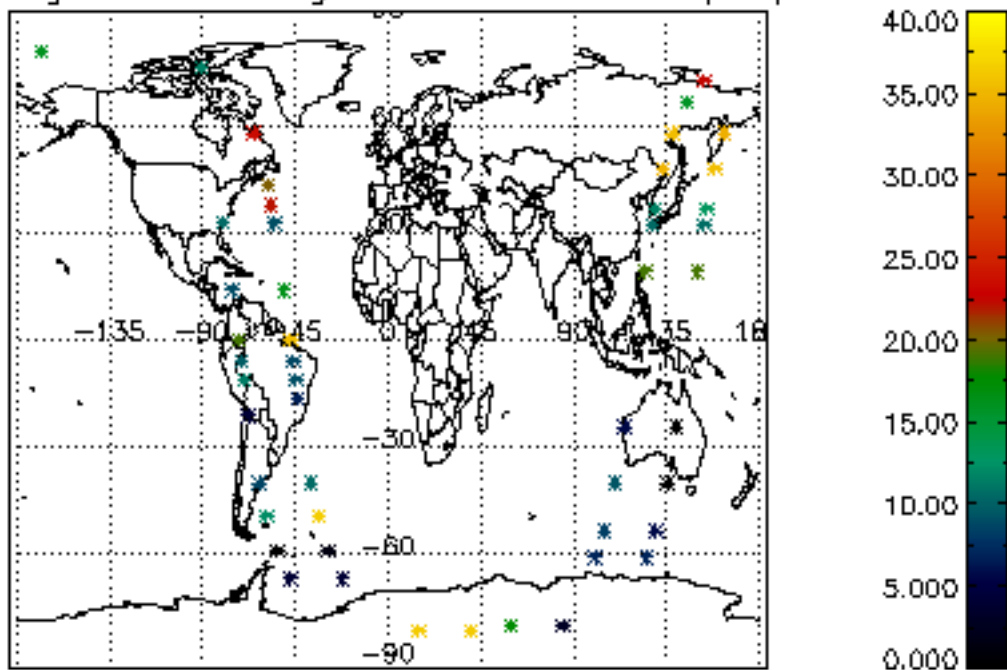
Percentage of cosmic ray hits per profile



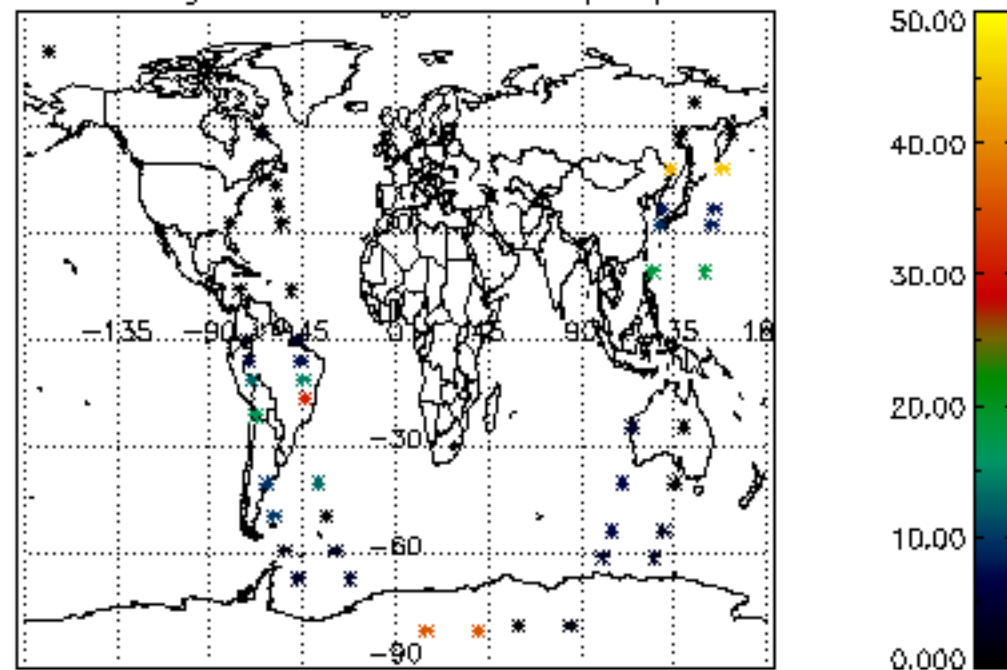
Percentage of datation errors per profile



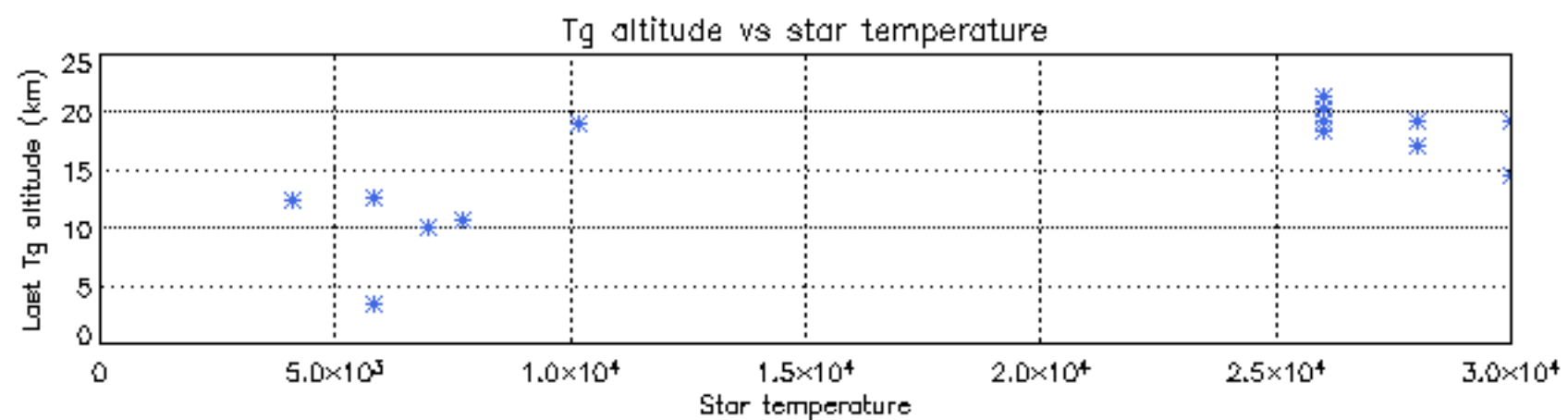
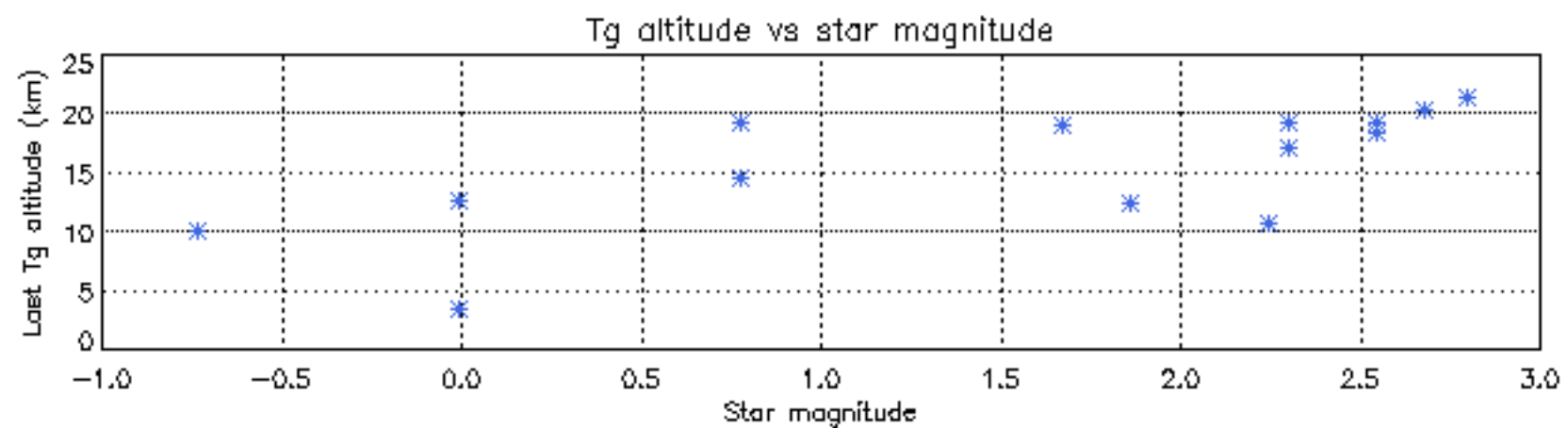
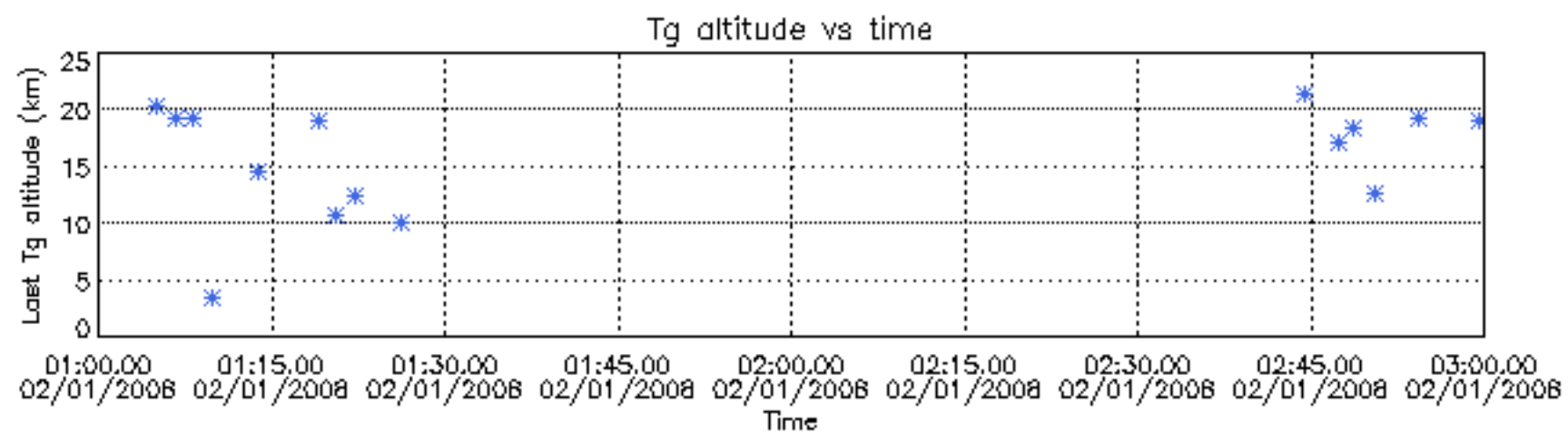
Percentage of star falling outside central band per profile



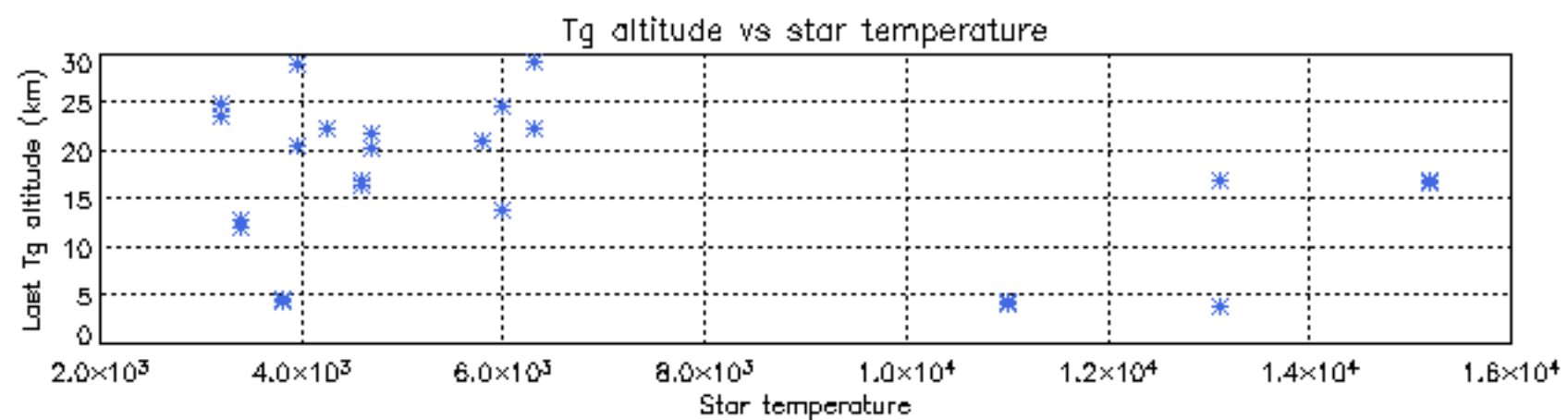
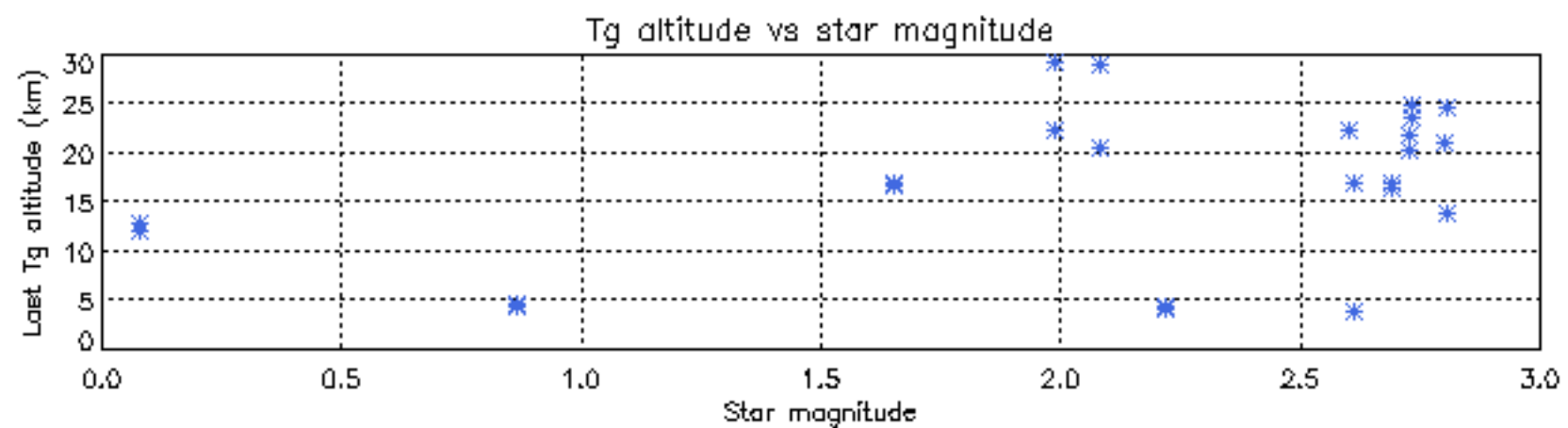
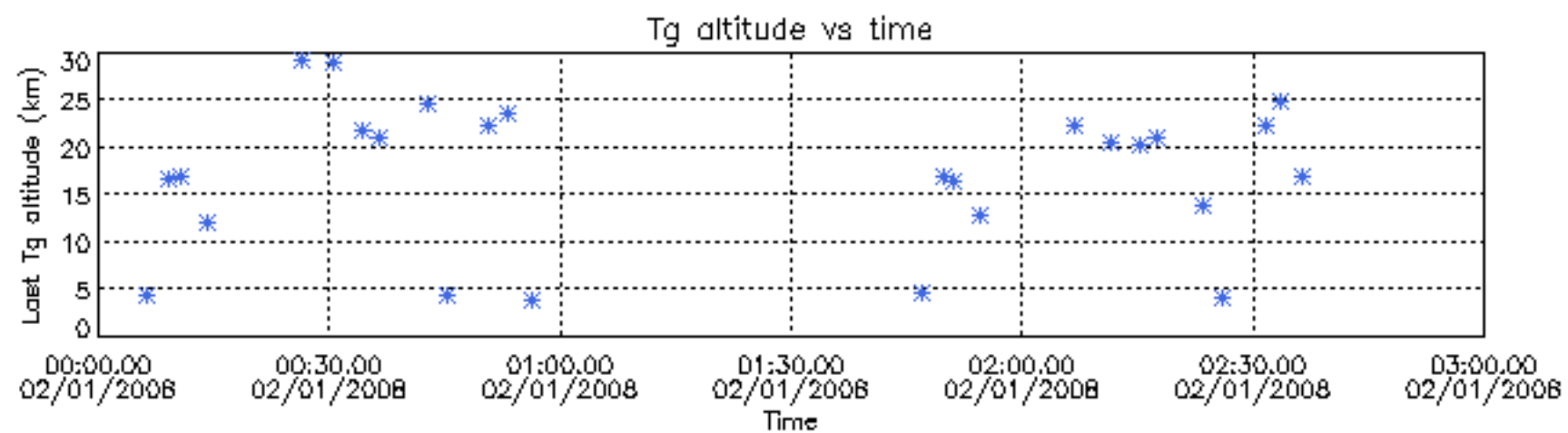
Percentage of saturation errors per profile

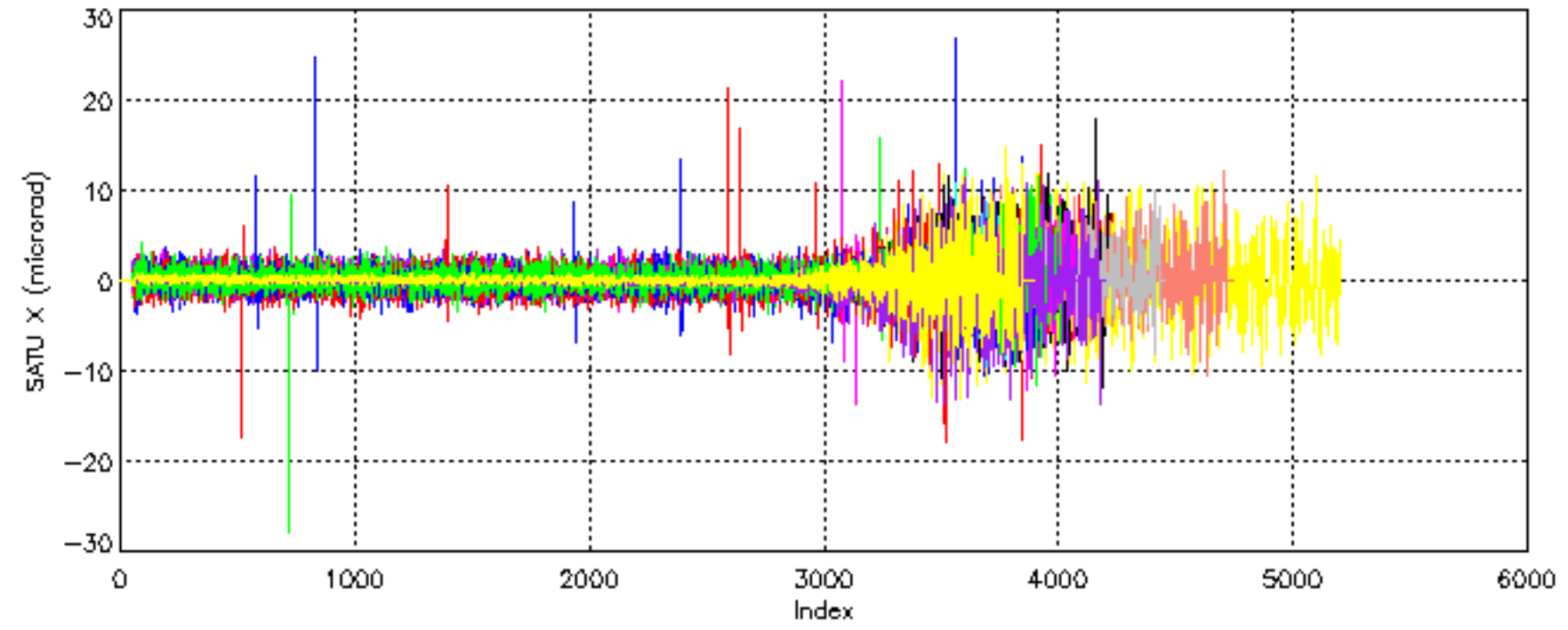


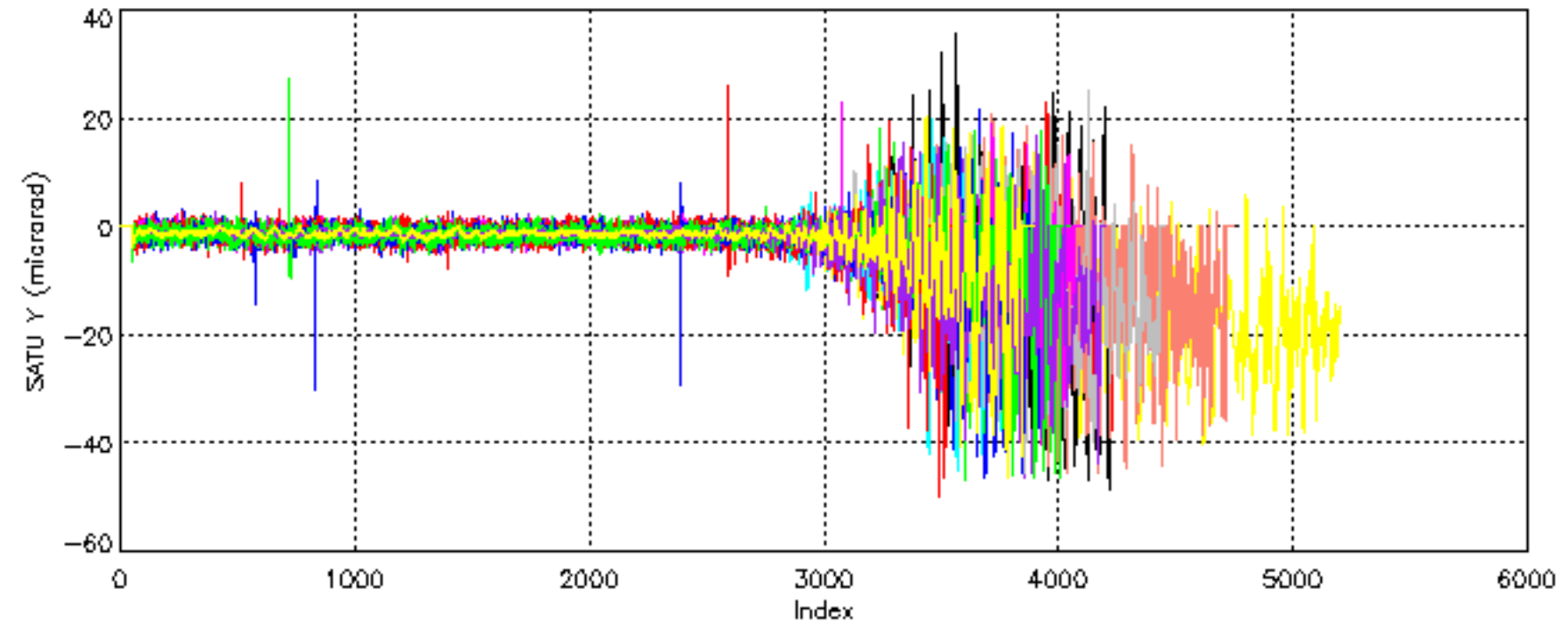
Tangent altitude at which the star is lost

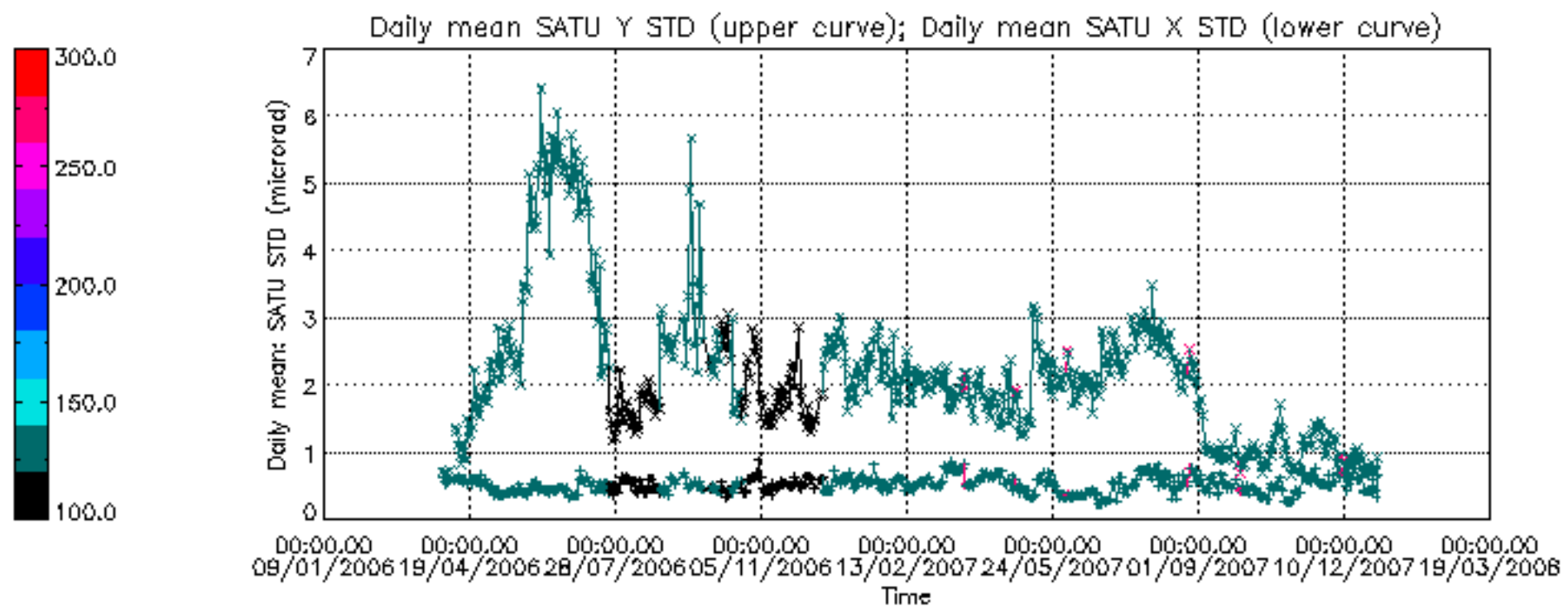


Tangent altitude at which the star is lost









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 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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 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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 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
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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
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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
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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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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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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
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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
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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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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
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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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13; 3423.8; 04-JAN-2008 21:10:13; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30572
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22; 2475.0; 04-JAN-2008 22:35:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30573
23; 2556.6; 04-JAN-2008 22:36:22; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30573
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25; 3423.8; 04-JAN-2008 22:50:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30573
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27; 3923.8; 04-JAN-2008 22:59:09; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30573
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27; 4430.1; 05-JAN-2008 00:48:11; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30574
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18; 5423.8; 04-JAN-2008 09:59:22; Dark ; 37.0; 158; 6Pi Sco ; 2.91; 28000;occ; 74; 0;30565
19; 5690.4; 04-JAN-2008 10:03:48; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30565
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21; 5863.6; 04-JAN-2008 10:06:42; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30565
22; 5959.1; 04-JAN-2008 10:08:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30565
23; 6049.0; 04-JAN-2008 10:09:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30565
24; 6287.3; 04-JAN-2008 10:13:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30565
25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565
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
32; 7611.4; 04-JAN-2008 10:35:49; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30565

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3; 1884.6; 04-JAN-2008 10:40:58; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30566
4; 2031.5; 04-JAN-2008 10:43:25; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;30566
5; 2208.6; 04-JAN-2008 10:46:22; Bright; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;30566
6; 2395.4; 04-JAN-2008 10:49:29; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30566


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9; 2690.2; 04-JAN-2008 10:54:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30566
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11; 3686.6; 04-JAN-2008 11:11:00; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30566
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14; 4428.8; 04-JAN-2008 11:23:23; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30566
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17; 5040.7; 04-JAN-2008 11:33:34; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30566
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25; 6049.3; 04-JAN-2008 11:50:23; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30566
26; 6287.7; 04-JAN-2008 11:54:22; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30566
27; 6448.1; 04-JAN-2008 11:57:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30566
28; 6598.7; 04-JAN-2008 11:59:33; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30566
29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30566
30; 6780.4; 04-JAN-2008 12:02:34; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30566
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32; 7223.8; 04-JAN-2008 12:09:58; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30566
33; 7388.2; 04-JAN-2008 12:12:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30566
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5; 2208.8; 04-JAN-2008 12:26:58; Bright; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;30567
6; 2395.4; 04-JAN-2008 12:30:05; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30567
7; 2474.8; 04-JAN-2008 12:31:24; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30567
8; 2557.8; 04-JAN-2008 12:32:47; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30567
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10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
11; 3686.6; 04-JAN-2008 12:51:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30567
12; 3923.8; 04-JAN-2008 12:55:34; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30567
13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
15; 4553.9; 04-JAN-2008 13:06:04; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 0;30567
16; 4904.3; 04-JAN-2008 13:11:54; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30567
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3; -344.8; 04-JAN-2008 13:25:01; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30567
4; -260.4; 04-JAN-2008 13:26:25; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30567
5; -171.1; 04-JAN-2008 13:27:54; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30567
6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
9; 412.5; 04-JAN-2008 13:37:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
11; 654.1; 04-JAN-2008 13:41:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30568
12; 745.0; 04-JAN-2008 13:43:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30568
13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
15; 1352.7; 04-JAN-2008 13:53:18; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30568
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4; 2031.5; 04-JAN-2008 14:04:37; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30568
5; 2209.0; 04-JAN-2008 14:07:35; Bright; 43.0; 13; 87Alp Tau ; 0.87; 3800;occ; 86; 0;30568
6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568
7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568
8; 2557.6; 04-JAN-2008 14:13:23; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30568
9; 2690.2; 04-JAN-2008 14:15:36; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30568
10; 3423.9; 04-JAN-2008 14:27:49; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30568
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13; 4056.2; 04-JAN-2008 14:38:22; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30568
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15; 4554.3; 04-JAN-2008 14:46:40; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30568
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19; 5315.2; 04-JAN-2008 14:59:21; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30568
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21; 5691.5; 04-JAN-2008 15:05:37; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30568
22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30568
23; 5865.2; 04-JAN-2008 15:08:31; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30568
24; 5961.2; 04-JAN-2008 15:10:07; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30568
25; 6050.1; 04-JAN-2008 15:11:36; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30568
26; 6288.8; 04-JAN-2008 15:15:34; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30568
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30; 6781.4; 04-JAN-2008 15:23:47; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30568
31; 7026.4; 04-JAN-2008 15:27:52; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;30568
32; 7224.6; 04-JAN-2008 15:31:10; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;30568
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7; 2395.4; 04-JAN-2008 15:51:17; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30569
8; 2475.0; 04-JAN-2008 15:52:36; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30569
9; 2557.4; 04-JAN-2008 15:53:59; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;30569
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22; 5691.9; 04-JAN-2008 16:46:13; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30569
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26; 6050.5; 04-JAN-2008 16:52:12; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30569
27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569
28; 6449.1; 04-JAN-2008 16:58:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30569
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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
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
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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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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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 15; 3924.1; 05-JAN-2008 20:46:57; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30586
 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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 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
 19; 2031.1; 05-JAN-2008 21:56:00; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 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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 24; 2689.4; 05-JAN-2008 22:06:58; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 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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 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
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 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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 3; 2031.3; 05-JAN-2008 10:11:48; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 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
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 16; 5044.6; 05-JAN-2008 11:02:02; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30580
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 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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 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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 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
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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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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
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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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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
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 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
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 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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 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611
 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
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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
 10; 3424.2; 07-JAN-2008 16:14:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30612
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 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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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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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
23; 6066.2; 07-JAN-2008 18:38:49; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30613
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6;	2486.7;	11-JAN-2008	08:50:18;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	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
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13; 2672.5; 20-JAN-2008 15:53:02; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30798
14; 3426.0; 20-JAN-2008 16:05:35; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30798
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23; 6071.7; 20-JAN-2008 16:49:41; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;30798
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27; 4278.3; 20-JAN-2008 23:02:11; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;30802
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22; 5583.7; 23-JAN-2008 20:08:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;30843
23; 5676.8; 23-JAN-2008 20:10:03; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30843
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23; 3426.5; 24-JAN-2008 02:14:56; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30847

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 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
 20; 6177.7; 25-JAN-2008 10:52:10; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30866
 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
 27; 7215.3; 25-JAN-2008 11:09:27; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;30866
 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
 31; 7665.0; 25-JAN-2008 11:16:57; Dark ; 36.5; 1; 9Alp CMa ; -1.44; 11000;occ; 73; 0;30866

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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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 18; 5891.1; 25-JAN-2008 12:27:59; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;30867
 19; 6092.6; 25-JAN-2008 12:31:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 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
 22; 6451.9; 25-JAN-2008 12:37:20; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30867
 23; 6692.9; 25-JAN-2008 12:41:21; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 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
 29; 7452.6; 25-JAN-2008 12:54:01; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 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
 11; 4086.1; 25-JAN-2008 15:19:06; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30869
 12; 4290.1; 25-JAN-2008 15:22:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;30869
 13; 4771.7; 25-JAN-2008 15:30:31; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30869
 14; 4898.1; 25-JAN-2008 15:32:38; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30869

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 16; 5526.7; 25-JAN-2008 15:43:06; Dark ; 40.5; 136; 23Tau Sco ; 2.82; 30000;occ; 81; 0;30869
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 18; 5681.7; 25-JAN-2008 15:45:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30869
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 21; 6093.4; 25-JAN-2008 15:52:33; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30869
 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
 24; 6453.1; 25-JAN-2008 15:58:33; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30869
 25; 6693.6; 25-JAN-2008 16:02:33; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30869
 26; 6825.5; 25-JAN-2008 16:04:45; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30869
 27; 6933.8; 25-JAN-2008 16:06:34; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30869
 28; 7089.8; 25-JAN-2008 16:09:10; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;30869
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 30; 7305.1; 25-JAN-2008 16:12:45; Dark ; 4.5; 117; Pi Pup ; 2.71; 3800;occ; 9; 0;30869

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 3; 1499.9; 25-JAN-2008 16:16:36; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;30870
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 5; 2061.9; 25-JAN-2008 16:25:58; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30870
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 7; 2295.7; 25-JAN-2008 16:29:51; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30870
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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
 10; 2677.7; 25-JAN-2008 16:36:13; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;30870
 11; 3426.8; 25-JAN-2008 16:48:43; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30870
 12; 4086.0; 25-JAN-2008 16:59:42; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30870
 13; 4290.2; 25-JAN-2008 17:03:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30870
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 15; 4898.4; 25-JAN-2008 17:13:14; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;30870
 16; 5271.5; 25-JAN-2008 17:19:27; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30870
 17; 5527.1; 25-JAN-2008 17:23:43; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;30870
 18; 5614.0; 25-JAN-2008 17:25:10; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30870
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 20; 5796.7; 25-JAN-2008 17:28:12; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;30870
 21; 5891.7; 25-JAN-2008 17:29:47; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;30870
 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
 24; 6352.9; 25-JAN-2008 17:37:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30870
 25; 6453.7; 25-JAN-2008 17:39:09; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30870
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 23; 5891.9; 25-JAN-2008 19:10:24; Dark ; 36.5; 141; Bet Ara ; 2.84; 4600;occ; 73; 0;30871
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 27; 6454.2; 25-JAN-2008 19:19:46; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30871
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 26; 6353.4; 25-JAN-2008 20:58:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30872
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24; 2190.5; 27-JAN-2008 03:40:41; Bright; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;30891
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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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8;	325.5;	27-JAN-2008	21:36:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30902
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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
13;	1063.0;	27-JAN-2008	21:48:28;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	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
24;	3427.2;	27-JAN-2008	22:27:53;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30902
25;	4086.8;	27-JAN-2008	22:38:52;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30902
26;	4295.3;	27-JAN-2008	22:42:21;	Bright;		37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	30902
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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 3;-1243.6; 31-JAN-2008 05:38:46; Bright; 51.5; 59; 55Alp Oph ; 2.08; 8900;occ; 103; 0;30949
 4;-1116.1; 31-JAN-2008 05:40:54; Bright; 43.0; 126; 60Bet Oph ; 2.77; 4250;occ; 86; 0;30949
 5; -730.7; 31-JAN-2008 05:47:19; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;30949
 6; -424.4; 31-JAN-2008 05:52:25; Dark ; 38.0; 25; 35Lam Sco ; 1.62; 28000;occ; 76; 0;30949
 7; -335.6; 31-JAN-2008 05:53:54; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;30949
 8; -221.9; 31-JAN-2008 05:55:48; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;30949
 9; -128.1; 31-JAN-2008 05:57:22; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;30949
 10; 85.1; 31-JAN-2008 06:00:55; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30950
 11; 185.2; 31-JAN-2008 06:02:35; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30950
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 13; 460.9; 31-JAN-2008 06:07:11; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30950
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 21; 1513.8; 31-JAN-2008 06:24:43; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;30950
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 23; 1993.1; 31-JAN-2008 06:32:43; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;30950
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 25; 2306.7; 31-JAN-2008 06:37:56; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30950
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 27; 2563.9; 31-JAN-2008 06:42:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30950
 28; 2689.5; 31-JAN-2008 06:44:19; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30950
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 17; 1076.2; 31-JAN-2008 07:58:02; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;30951
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7; 2689.7; 31-JAN-2008 08:24:55; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30951
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27; 7467.6; 31-JAN-2008 11:25:09; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30952
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