

GOMOS Daily Report 07-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	09JAN2008 05:41:04
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JAN2008 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)

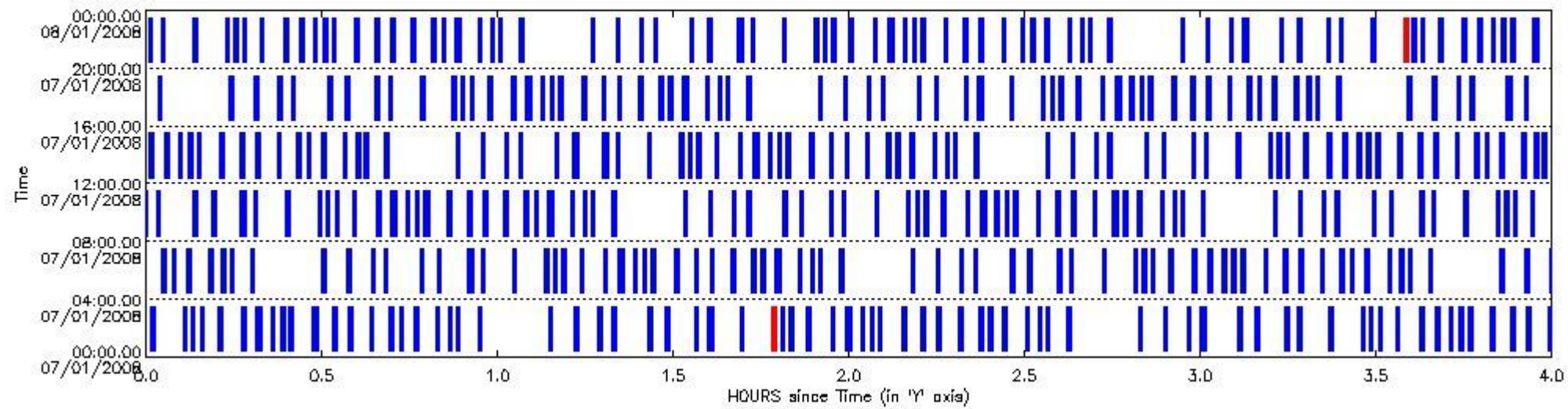
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

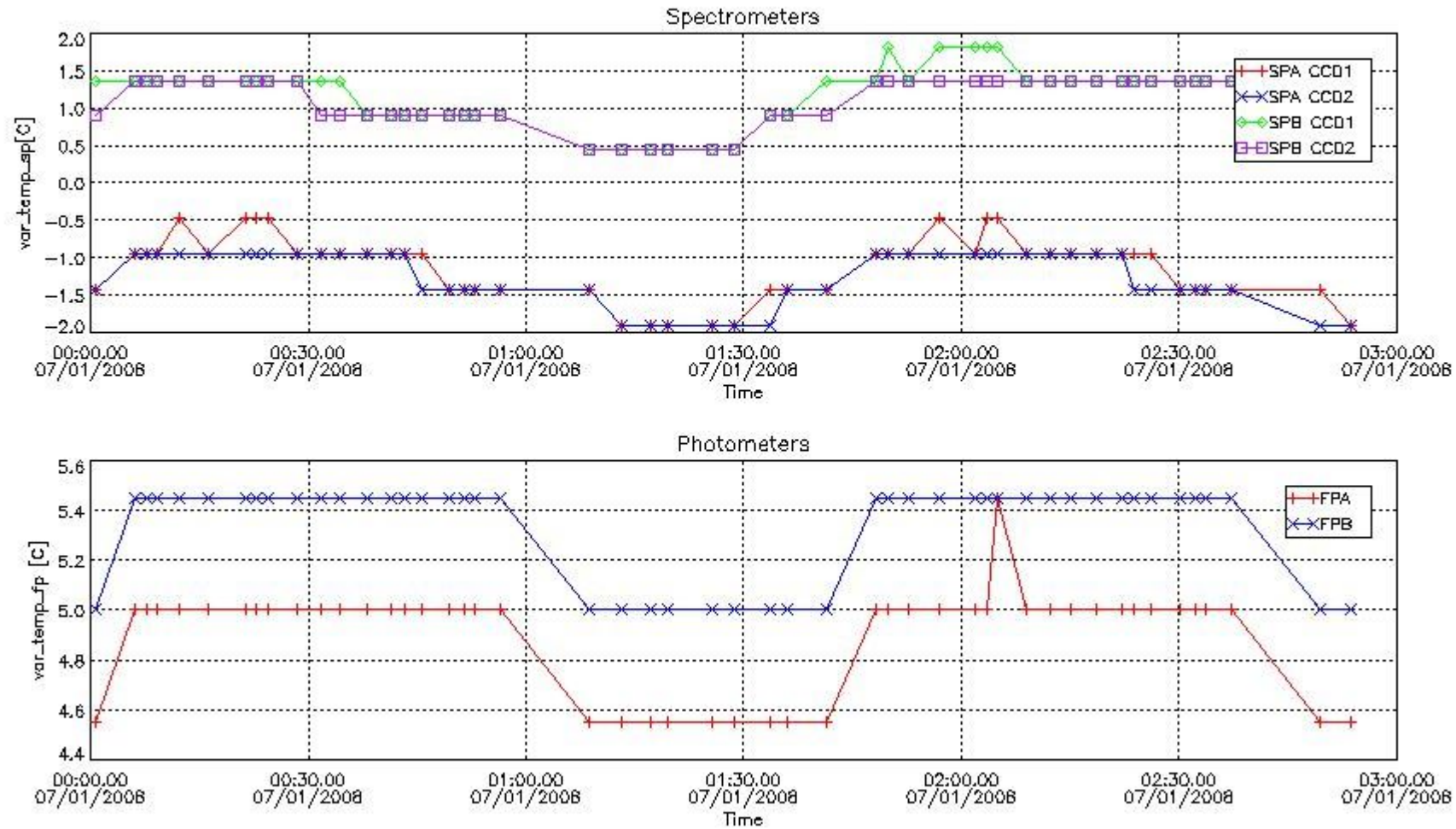
UTC start time	Star name	Star ID	Orbit
07-JAN-2008 01:46:46	GamLup	131	30603
07-JAN-2008 23:34:38	GamLup	131	30616

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_1PNPDE20080107_000045_000000392064_00488_30602_7101.N1	07-JAN-2008 00:00:45	Twl_and_stray	39.000	80	7Del Sco	2.3160	30000.	78	30602	No
2	GOM_TRA_1PNPDE20080107_000611_000000382064_00488_30602_7102.N1	07-JAN-2008 00:06:11	Dark	37.500	131	Gam Lup	2.8000	26000.	75	30602	No
3	GOM_TRA_1PNPDE20080107_000740_000000382064_00488_30602_7103.N1	07-JAN-2008 00:07:40	Dark	38.000	109	Bet Lup	2.6770	26000.	76	30602	No
4	GOM_TRA_1PNPDE20080107_000910_000000402064_00488_30602_7104.N1	07-JAN-2008 00:09:10	Dark	39.500	78	Alp Lup	2.3040	28000.	79	30602	No
5	GOM_TRA_1PNPDE20080107_001209_000000522064_00489_30603_7105.N1	07-JAN-2008 00:12:09	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	30603	No
6	GOM_TRA_1PNPDE20080107_001614_000000412064_00489_30603_7106.N1	07-JAN-2008 00:16:14	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30603	No
7	GOM_TRA_1PNPDE20080107_002118_000000382064_00489_30603_7107.N1	07-JAN-2008 00:21:18	Dark	37.500	29	Bet Car	1.6720	10200.	75	30603	No
8	GOM_TRA_1PNPDE20080107_002255_000000452064_00489_30603_7108.N1	07-JAN-2008 00:22:55	Dark	45.000	71	lot Car	2.2460	7700.0	90	30603	No
9	GOM_TRA_1PNPDE20080107_002423_000000502064_00489_30603_7109.N1	07-JAN-2008 00:24:23	Dark	49.500	41	Eps Car	1.8600	4100.0	99	30603	No

10	GOM_TRA_1PNPDE20080107_002822_000000522064_00489_30603_7110.N1	07-JAN-2008 00:28:22	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	30603	No
11	GOM_TRA_1PNPDE20080107_003143_000000462064_00489_30603_7111.N1	07-JAN-2008 00:31:43	Dark	45.500	117	Pi Pup	2.7060	3800.0	91	30603	No
12	GOM_TRA_1PNPDE20080107_003424_000000452064_00489_30603_7112.N1	07-JAN-2008 00:34:24	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	30603	No
13	GOM_TRA_1PNPDE20080107_003804_000000422064_00489_30603_7113.N1	07-JAN-2008 00:38:04	Straylight	41.500	47	2Bet CMa	1.9760	28000.	83	30603	No
14	GOM_TRA_1PNPDE20080107_004125_000000452064_00489_30603_7114.N1	07-JAN-2008 00:41:25	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	30603	No
15	GOM_TRA_1PNPDE20080107_004311_000000422064_00489_30603_7115.N1	07-JAN-2008 00:43:11	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30603	No
16	GOM_TRA_1PNPDE20080107_004534_000000532064_00489_30603_7116.N1	07-JAN-2008 00:45:34	Tw_i_and_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	30603	No
17	GOM_TRA_1PNPDE20080107_004931_000000352064_00489_30603_7117.N1	07-JAN-2008 00:49:31	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	30603	No
18	GOM_TRA_1PNPDE20080107_005138_000000362064_00489_30603_7118.N1	07-JAN-2008 00:51:38	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	30603	No
19	GOM_TRA_1PNPDE20080107_005301_000000352064_00489_30603_7119.N1	07-JAN-2008 00:53:01	Bright	35.000	114	3lot Aur	2.6930	4600.0	70	30603	No
20	GOM_TRA_1PNPDE20080107_005633_000000392064_00489_30603_7120.N1	07-JAN-2008 00:56:33	Bright	39.000	6	13Alp Aur	0.080000	3400.0	78	30603	No
21	GOM_TRA_1PNPDE20080107_010847_000000362064_00489_30603_7121.N1	07-JAN-2008 01:08:47	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30603	No
22	GOM_TRA_1PNPDE20080107_011305_000000402064_00489_30603_7122.N1	07-JAN-2008 01:13:05	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	30603	No
23	GOM_TRA_1PNPDE20080107_011708_000000362064_00489_30603_7123.N1	07-JAN-2008 01:17:08	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30603	No
24	GOM_TRA_1PNPDE20080107_011925_000000522064_00489_30603_7124.N1	07-JAN-2008 01:19:25	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30603	No
25	GOM_TRA_1PNPDE20080107_012538_000000522064_00489_30603_7125.N1	07-JAN-2008 01:25:38	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30603	No
26	GOM_TRA_1PNPDE20080107_012836_000000522064_00489_30603_7126.N1	07-JAN-2008 01:28:36	Bright	52.000	127	27Bet Her	2.7810	4700.0	104	30603	No
27	GOM_TRA_1PNPDE20080107_013340_000000372064_00489_30603_7127.N1	07-JAN-2008 01:33:40	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	30603	No
28	GOM_TRA_1PNPDE20080107_013555_000000532064_00489_30603_7128.N1	07-JAN-2008 01:35:55	Bright	52.500	120	1Del Oph	2.7340	3200.0	105	30603	No
29	GOM_TRA_1PNPDE20080107_014122_000000432064_00489_30603_7245.N1	07-JAN-2008 01:41:22	Tw_i_and_stray	42.500	80	7Del Sco	2.3160	30000.	85	30603	No
30	GOM_TRA_1PNPDE20080107_014816_000000382064_00489_30603_7246.N1	07-JAN-2008 01:48:16	Dark	38.000	109	Bet Lup	2.6770	26000.	76	30603	No
31	GOM_TRA_1PNPDE20080107_014946_000000392064_00489_30603_7247.N1	07-JAN-2008 01:49:46	Dark	38.500	78	Alp Lup	2.3040	28000.	77	30603	No
32	GOM_TRA_1PNPDE20080107_015246_000000432064_00490_30604_7248.N1	07-JAN-2008 01:52:46	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	30604	No
33	GOM_TRA_1PNPDE20080107_015650_000000412064_00490_30604_7249.N1	07-JAN-2008 01:56:50	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30604	No
34	GOM_TRA_1PNPDE20080107_020155_000000392064_00490_30604_7250.N1	07-JAN-2008 02:01:55	Dark	39.000	29	Bet Car	1.6720	10200.	78	30604	No
35	GOM_TRA_1PNPDE20080107_020332_000000402064_00490_30604_7251.N1	07-JAN-2008 02:03:32	Dark	39.500	71	lot Car	2.2460	7700.0	79	30604	No
36	GOM_TRA_1PNPDE20080107_020459_000000402064_00490_30604_7252.N1	07-JAN-2008 02:04:59	Dark	40.000	41	Eps Car	1.8600	4100.0	80	30604	No
37	GOM_TRA_1PNPDE20080107_020858_000000442064_00490_30604_7253.N1	07-JAN-2008 02:08:58	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30604	No
38	GOM_TRA_1PNPDE20080107_021219_000000432064_00490_30604_7254.N1	07-JAN-2008 02:12:19	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	30604	No
39	GOM_TRA_1PNPDE20080107_021501_000000452064_00490_30604_7255.N1	07-JAN-2008 02:15:01	Straylight	44.500	23	21Eps CMa	1.5020	26000.	89	30604	No
40	GOM_TRA_1PNPDE20080107_021840_000000422064_00490_30604_7256.N1	07-JAN-2008 02:18:40	Straylight	42.000	47	2Bet CMa	1.9760	28000.	84	30604	No
41	GOM_TRA_1PNPDE20080107_022201_000000502064_00490_30604_7257.N1	07-JAN-2008 02:22:01	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	30604	No
42	GOM_TRA_1PNPDE20080107_022347_000000422064_00490_30604_7258.N1	07-JAN-2008 02:23:47	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	30604	No
43	GOM_TRA_1PNPDE20080107_022610_000000532064_00490_30604_7259.N1	07-JAN-2008 02:26:10	Tw_i_and_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	30604	No
44	GOM_TRA_1PNPDE20080107_023007_000000362064_00490_30604_7260.N1	07-JAN-2008 02:30:07	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	30604	No
45	GOM_TRA_1PNPDE20080107_023214_000000372064_00490_30604_7261.N1	07-JAN-2008 02:32:14	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30604	No
46	GOM_TRA_1PNPDE20080107_023337_000000372064_00490_30604_7262.N1	07-JAN-2008 02:33:37	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	30604	No
47	GOM_TRA_1PNPDE20080107_023708_000000412064_00490_30604_7263.N1	07-JAN-2008 02:37:08	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	30604	No
48	GOM_TRA_1PNPDE20080107_024923_000000342064_00490_30604_7264.N1	07-JAN-2008 02:49:23	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	30604	No
49	GOM_TRA_1PNPDE20080107_025341_000000122064_00490_30604_7265.N1	07-JAN-2008 02:53:41	Tw_i_and_stray	11.500	60	7Bet UMi	2.0810	3950.0	23	30604	No

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



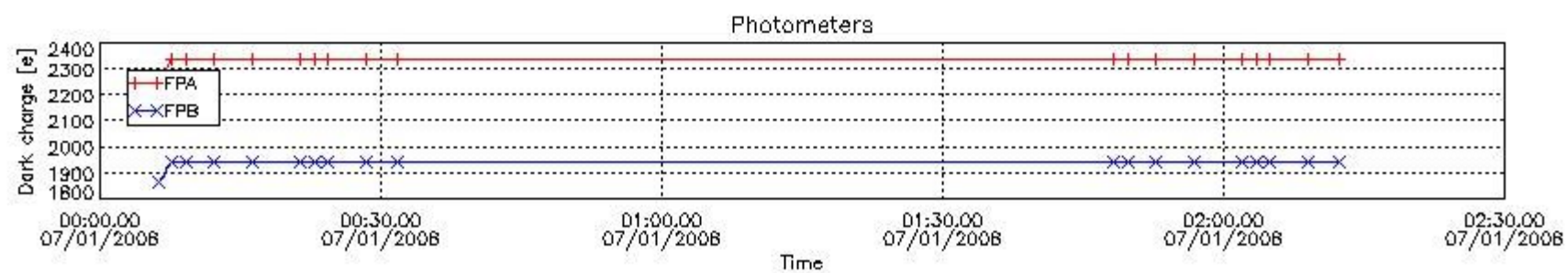
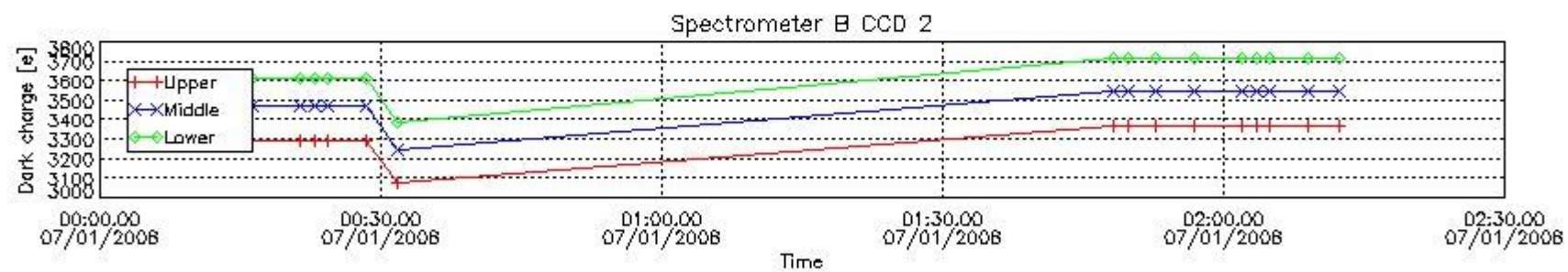
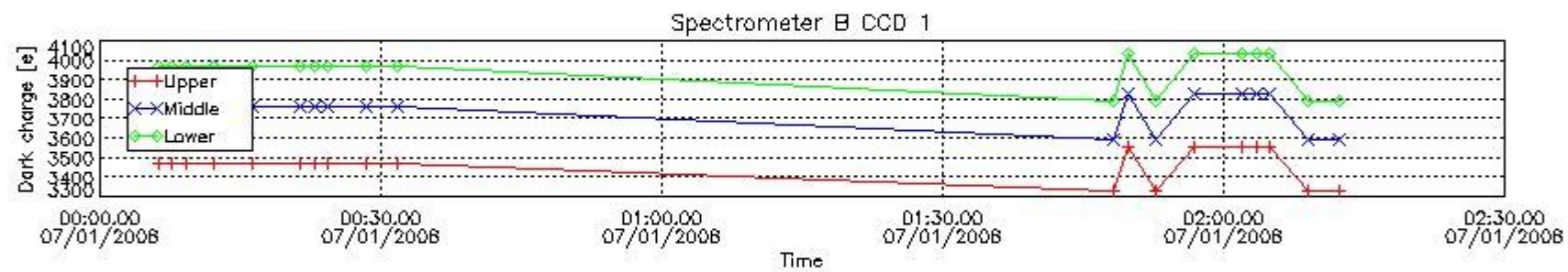
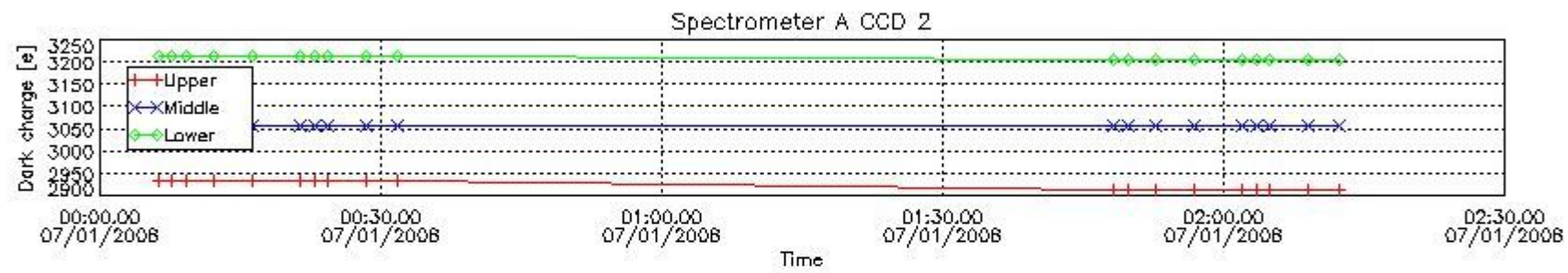
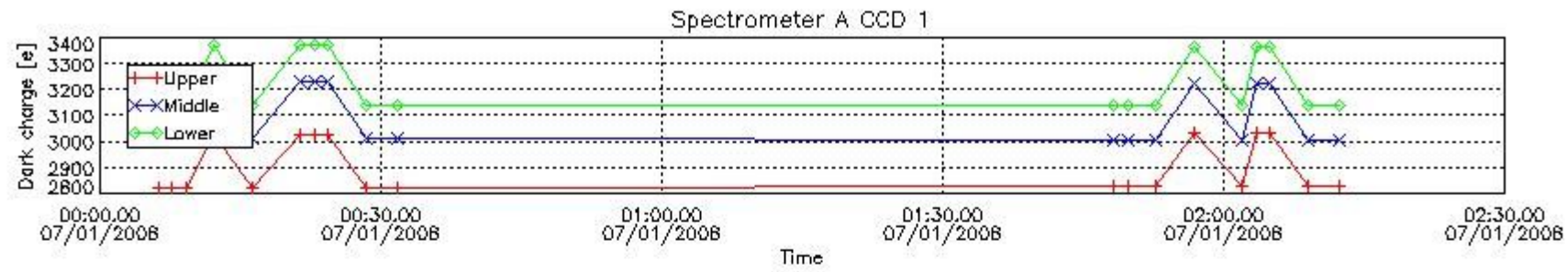
4. Overview of dark signal processing per product

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



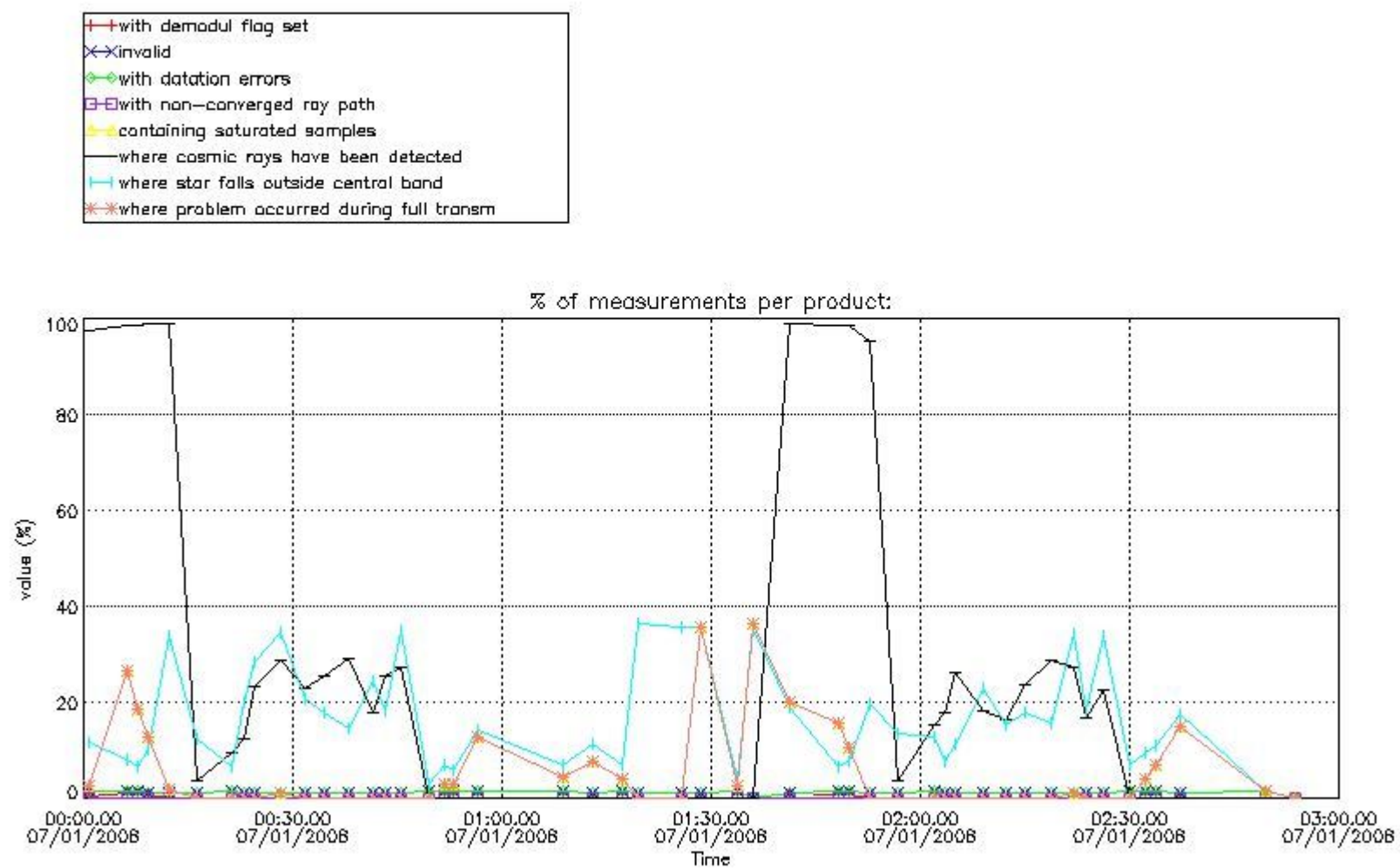
5. Demodulation flag and quality information monitoring

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.

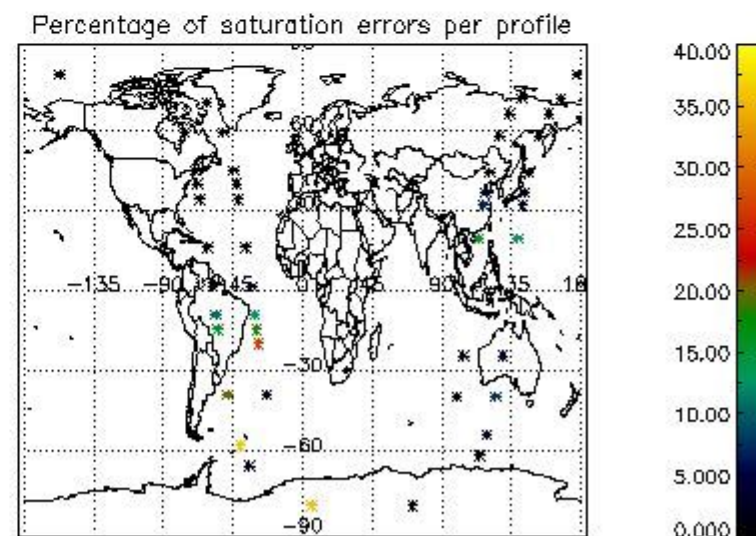
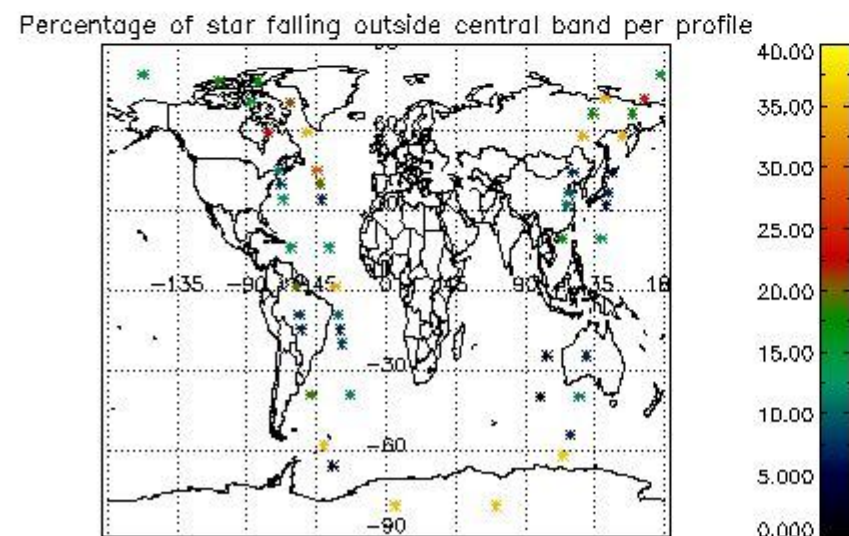
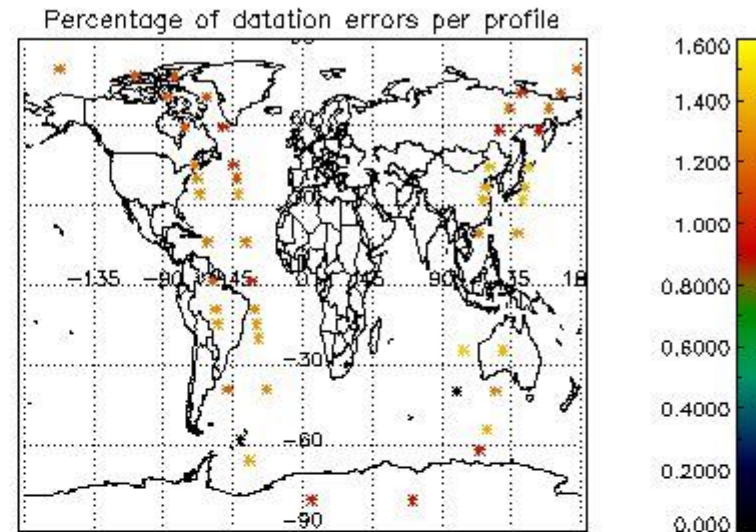
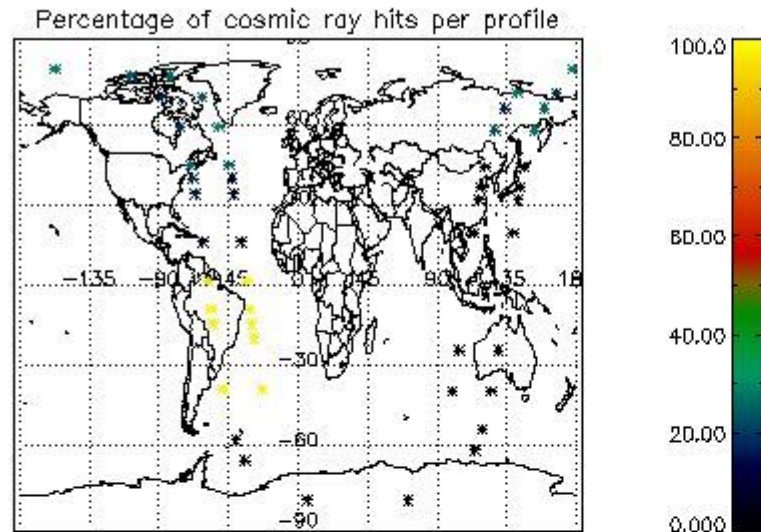
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.7755 %
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)



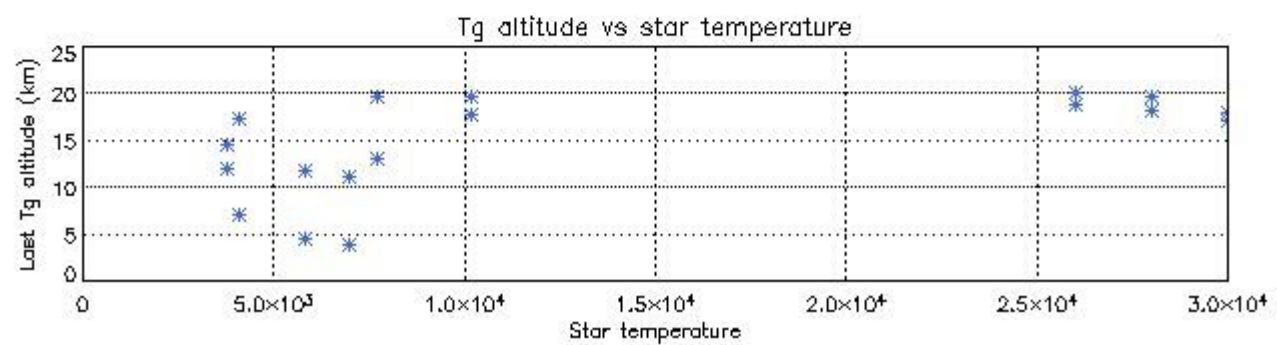
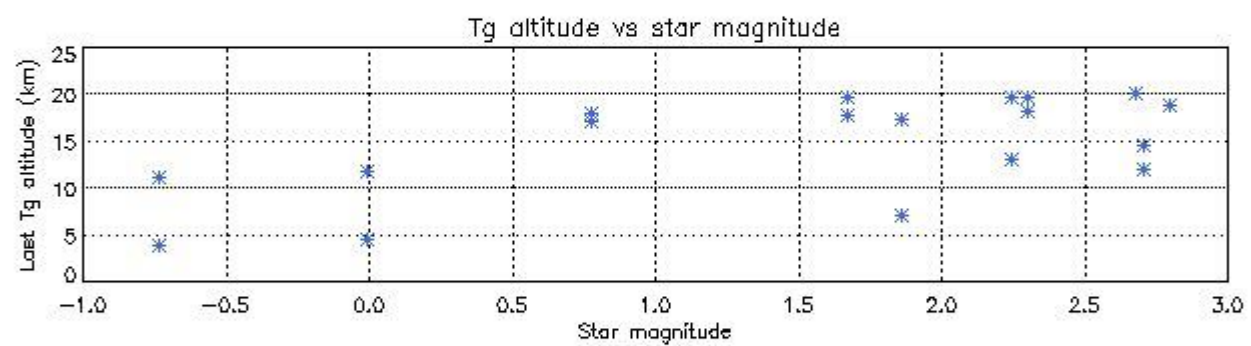
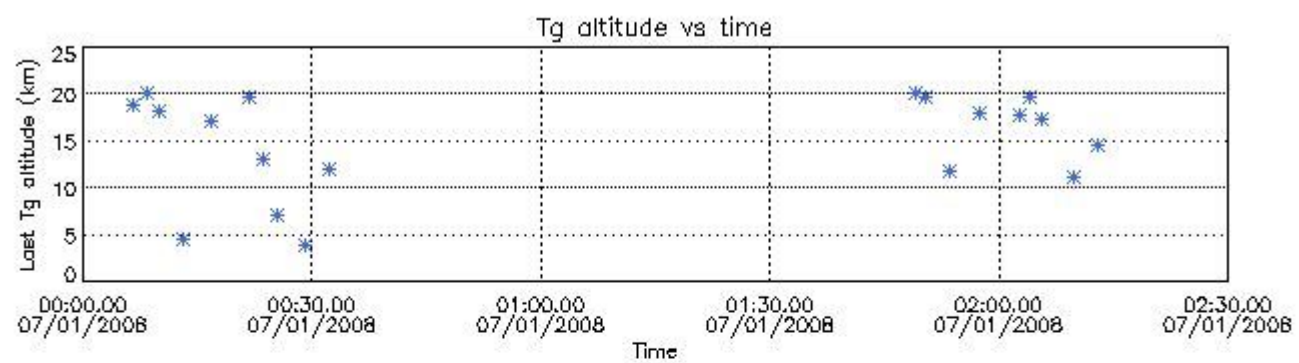
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.944	16.151	NaN
St. deviation:	5.3000	7.4099	NaN
Maximum:	20.147	24.875	NaN
Minimum:	3.9007	2.9771	NaN
Number of data:	19.000	17.000	NaN

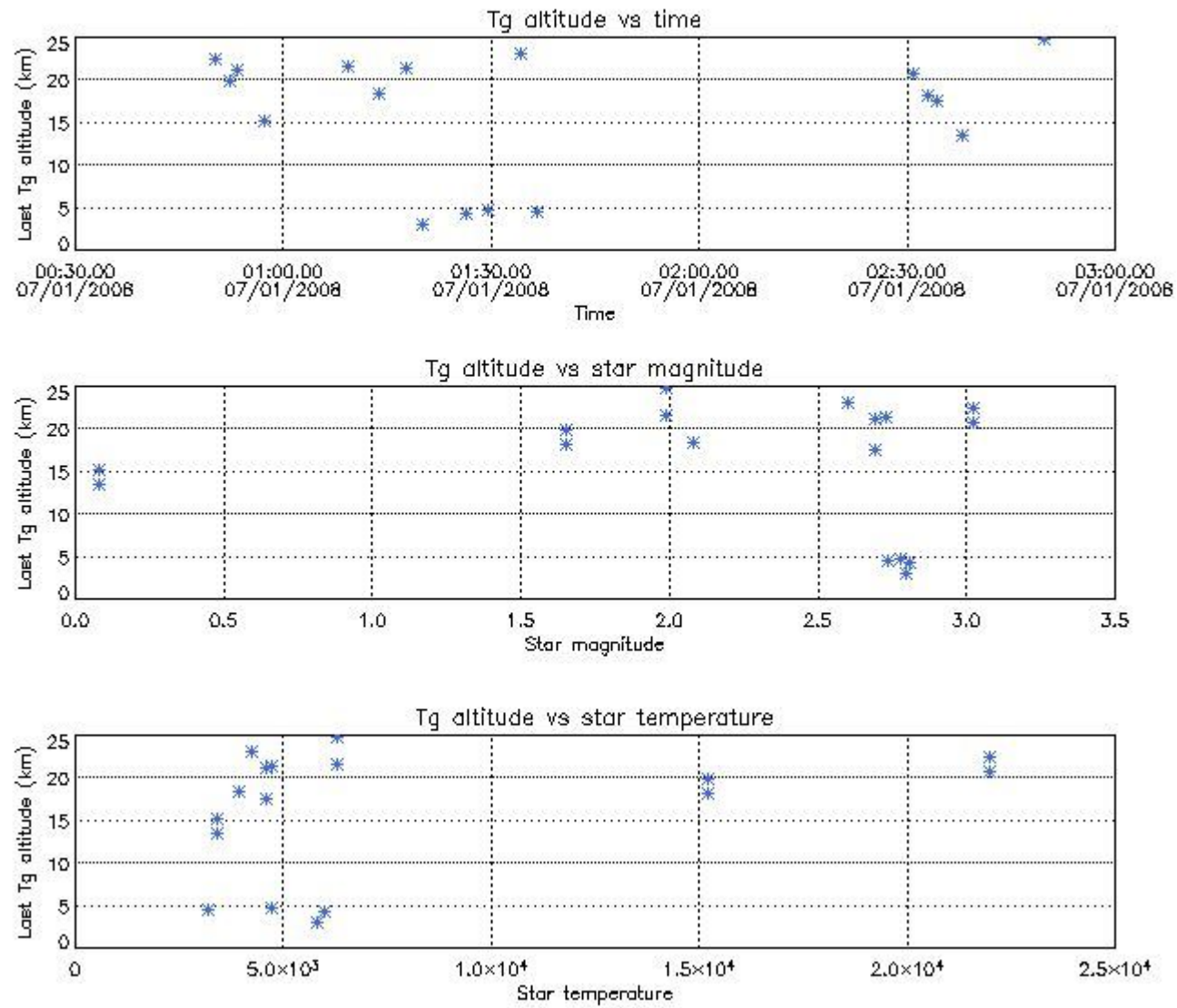
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

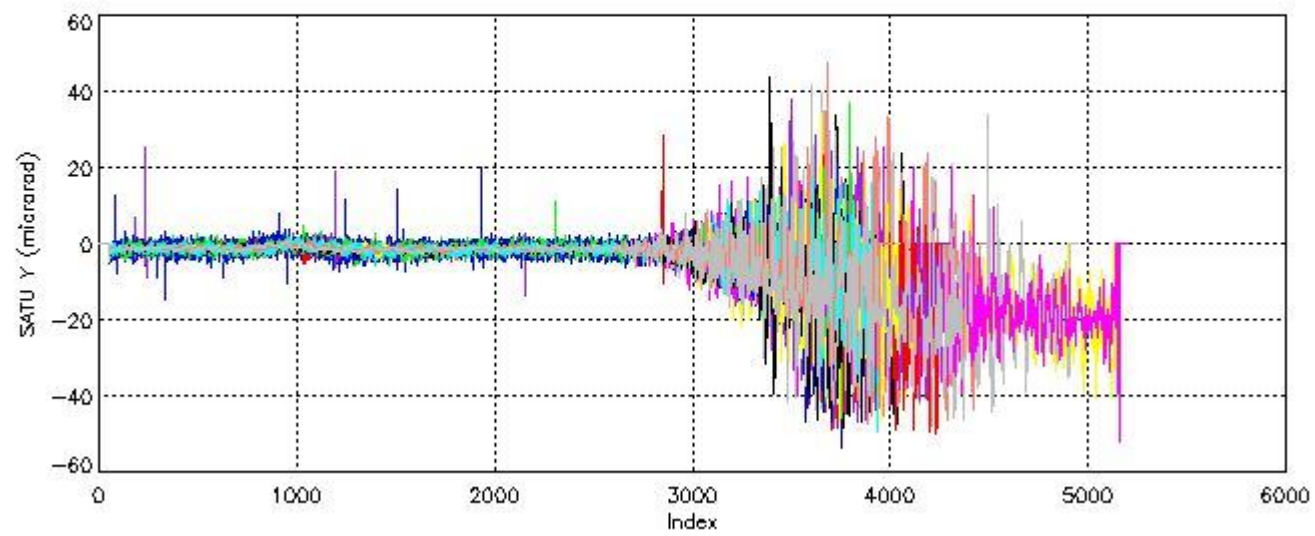
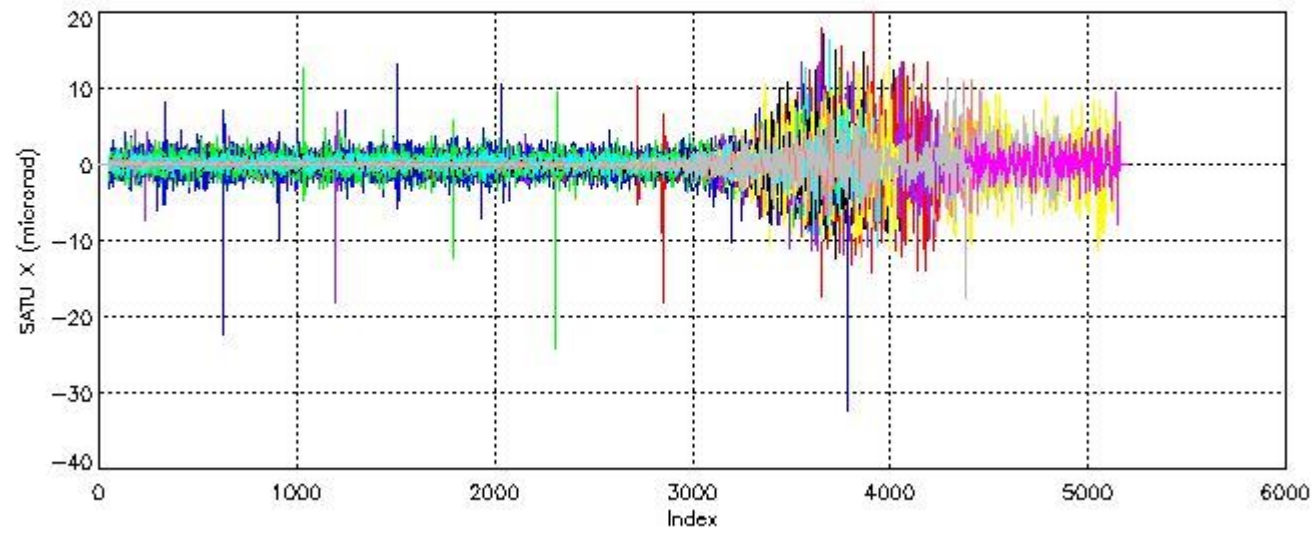


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12075	-1.2830	0.049542	-1.2100
St. deviation:	0.50105	0.75455	0.64241	0.89669
Maximum:	8.2000	25.200	5.4000	4.3000
Minimum:	-22.400	-14.800	-4.6000	-6.6000

Number of data:	16950.	16950.	13900.	13900.
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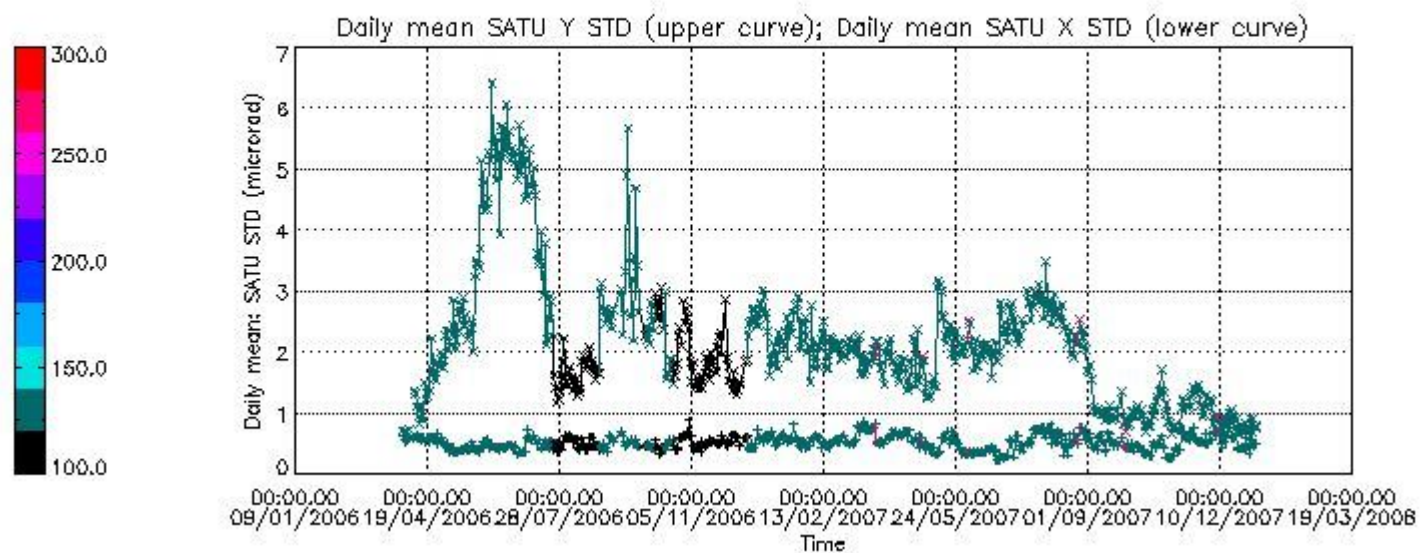
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

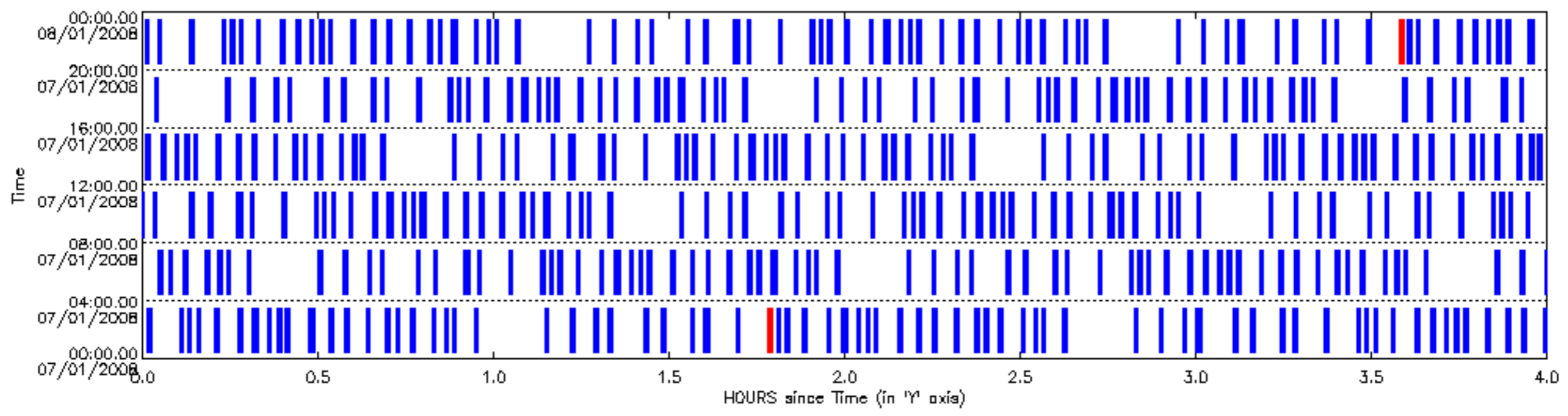
Lower curve: STD of SATU X axis

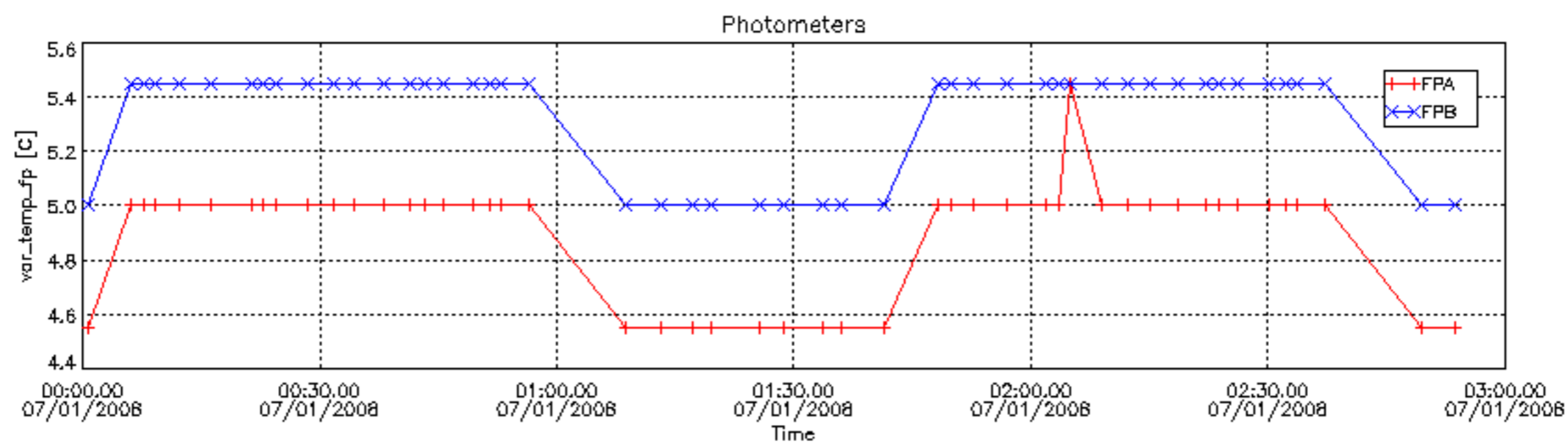
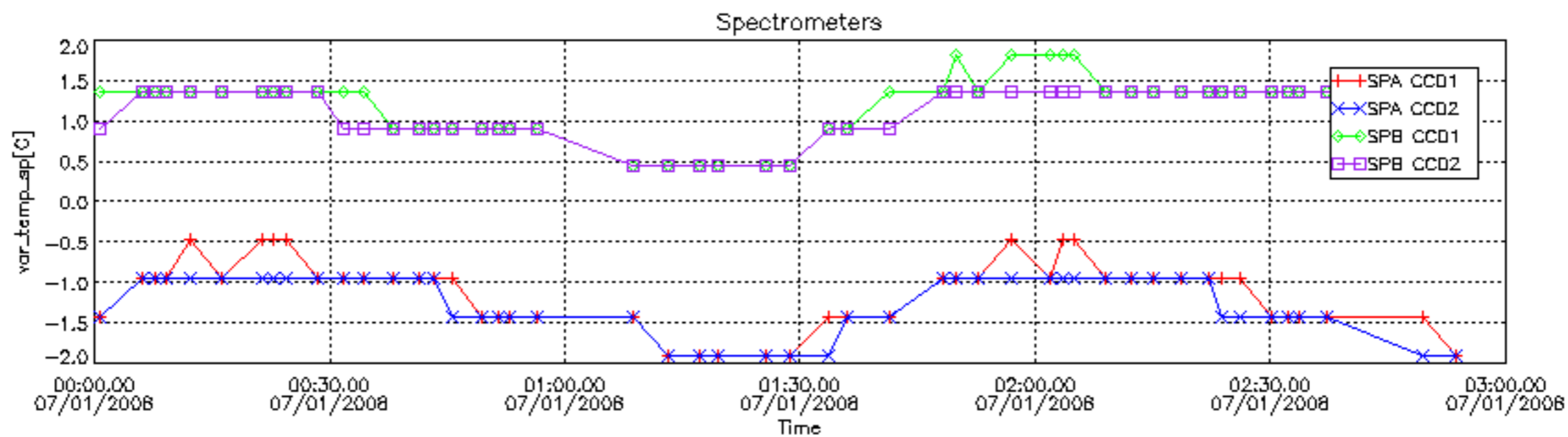


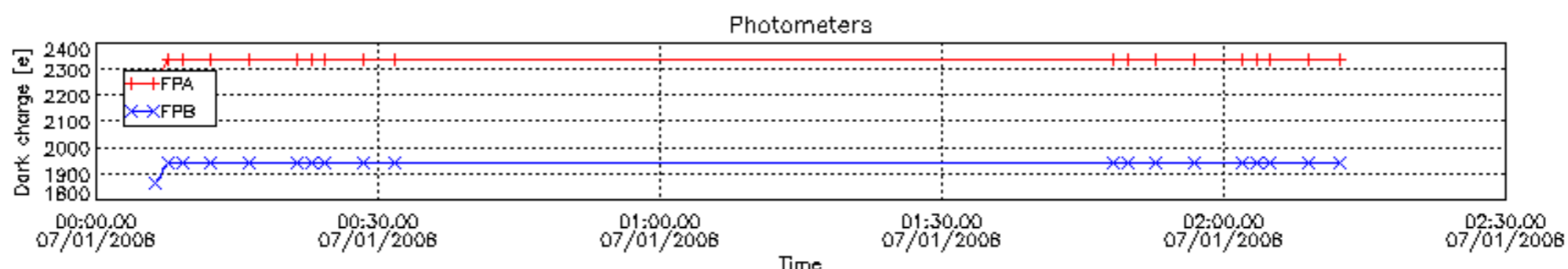
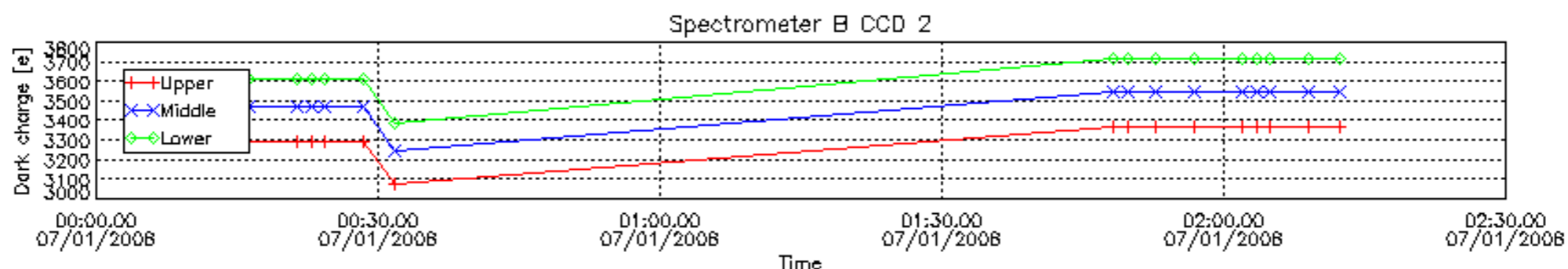
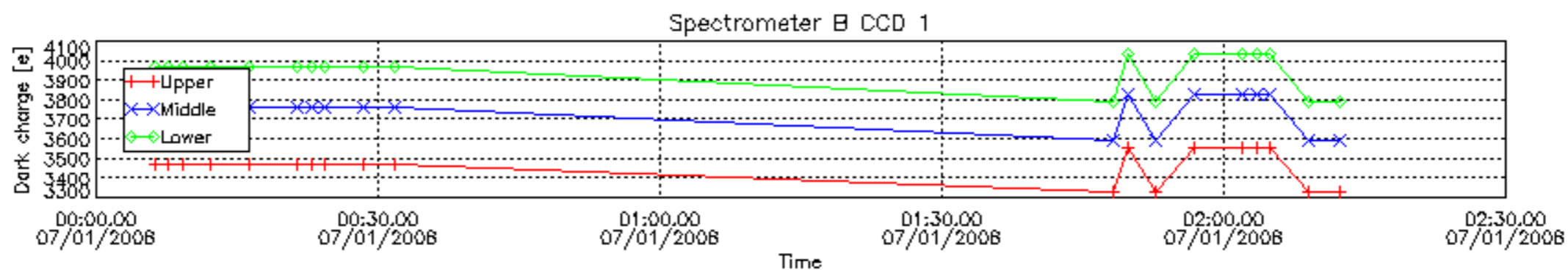
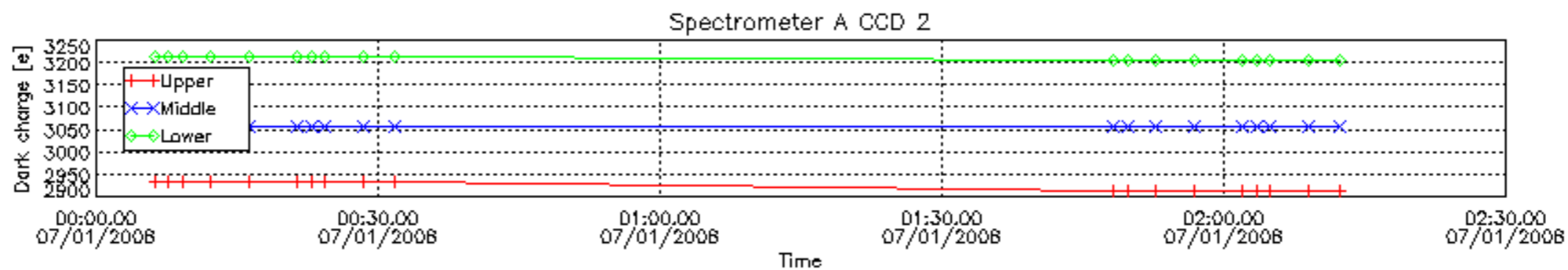
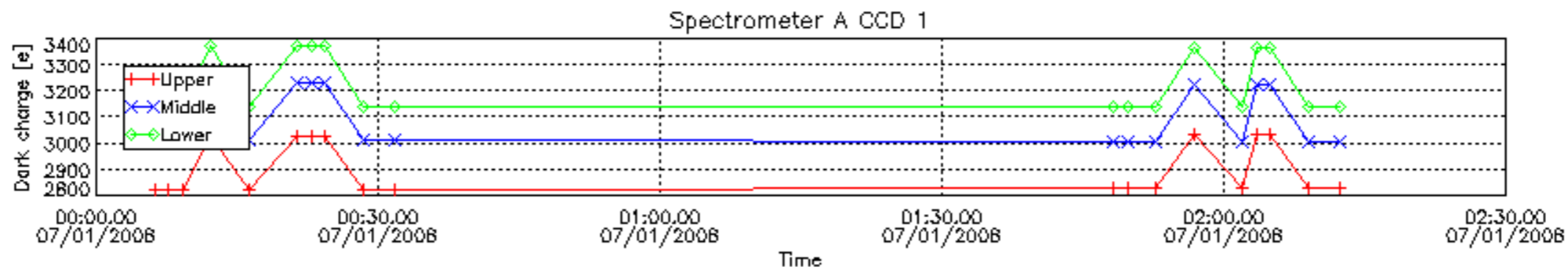
8. Auxiliary Data Files used for the production reported in section 2.4

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.

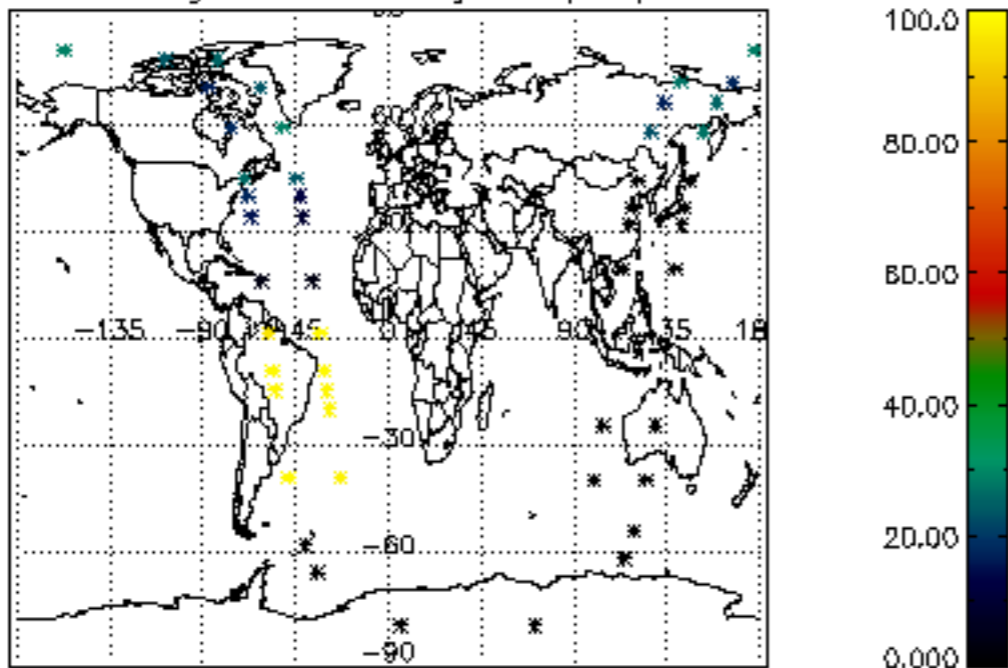
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JAN-2008 00:00:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080102_115237_20071231_000000_20100101_000000	1	07-JAN-2008 00:00:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JAN-2008 00:00:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JAN-2008 00:00:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JAN-2008 00:00:45
ECMWF_FILE	AUX_ECF_AXNECM20080106_073111_20080106_210000_20080107_090000	1	07-JAN-2008 00:00:45
OPTIONAL_ECMWF_FILE	MISSING	1	07-JAN-2008 00:00:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080106_221724_000057382064_00487_30601_4899.N1	1	07-JAN-2008 00:00:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080106_235821_000054192064_00488_30602_4900.N1	29	07-JAN-2008 01:41:22



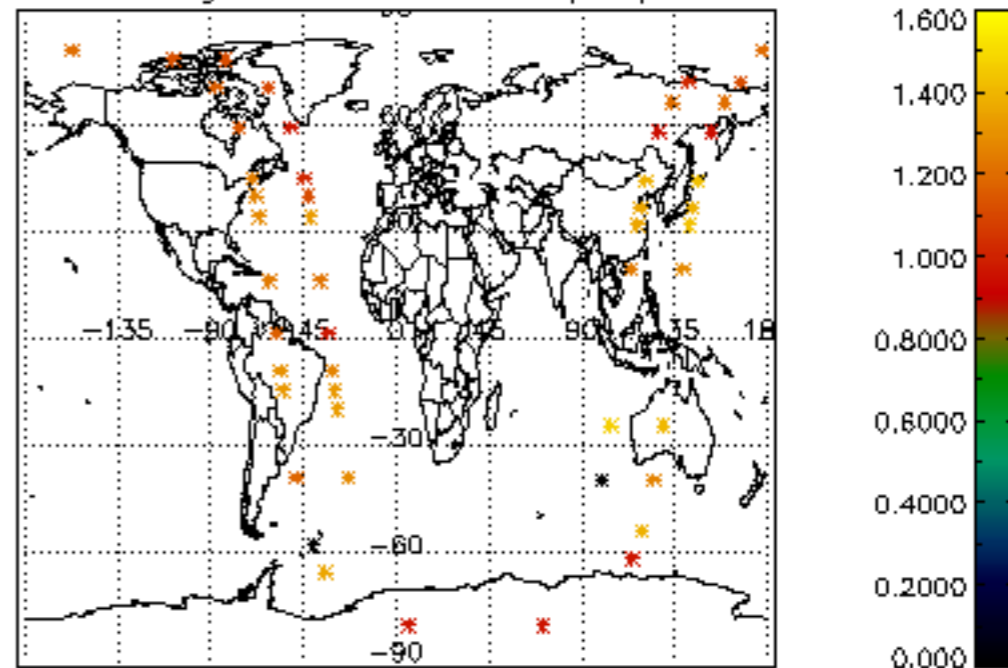




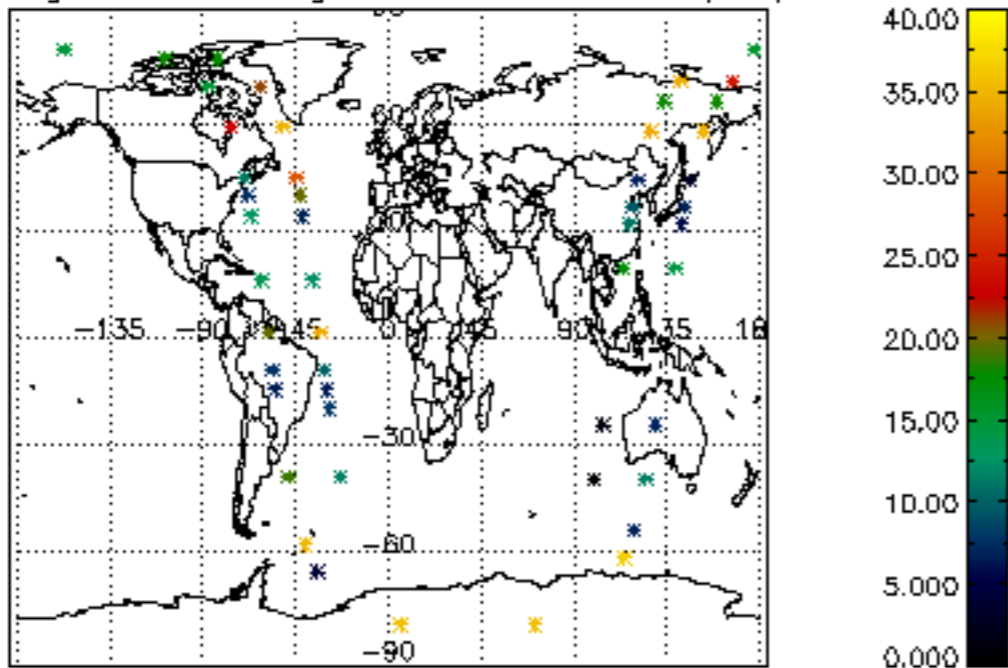
Percentage of cosmic ray hits per profile



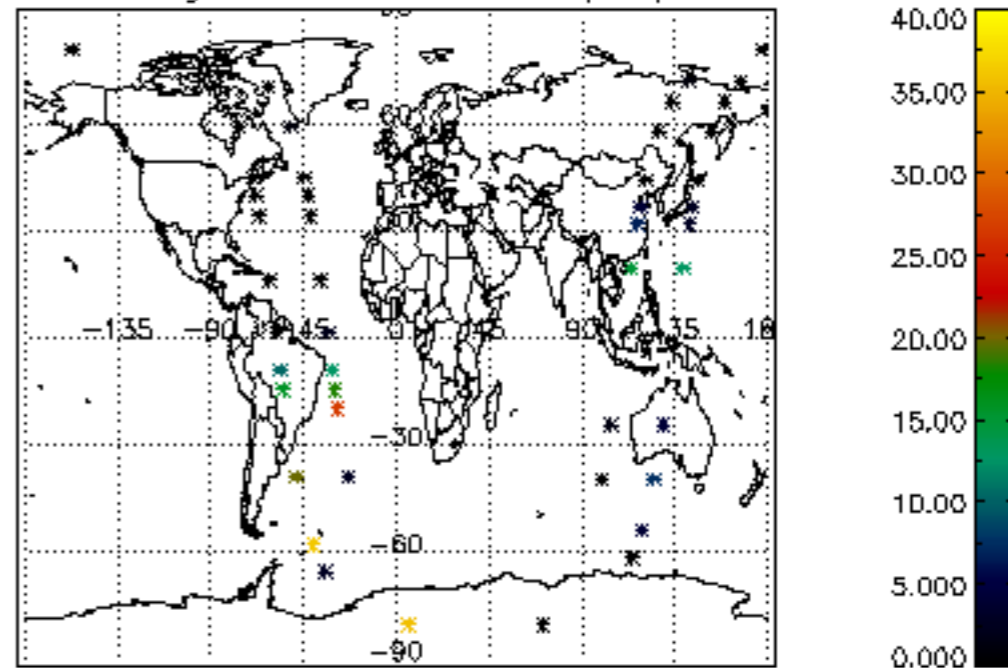
Percentage of datation errors per profile



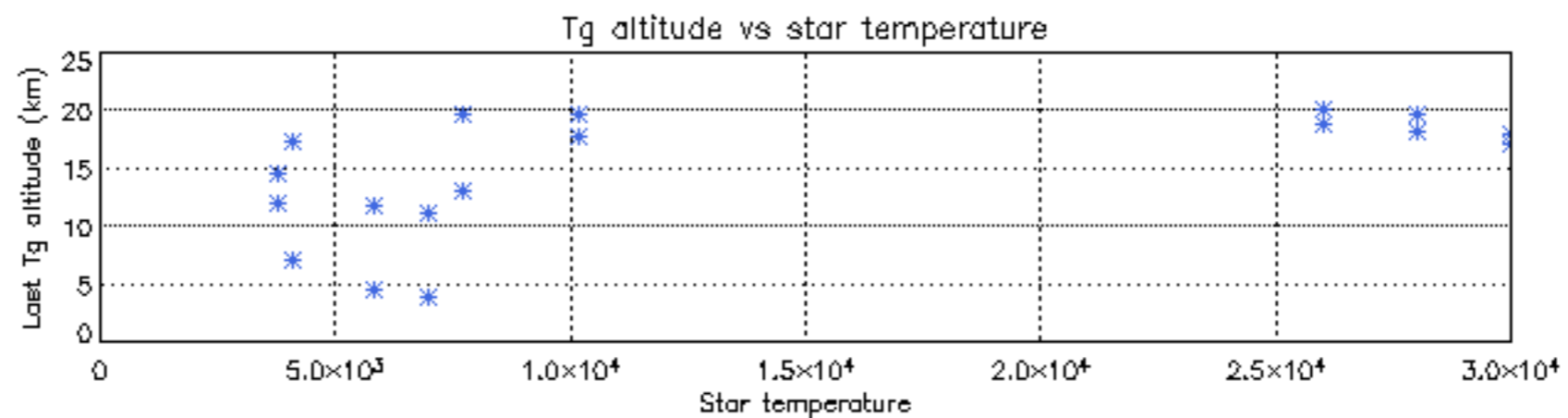
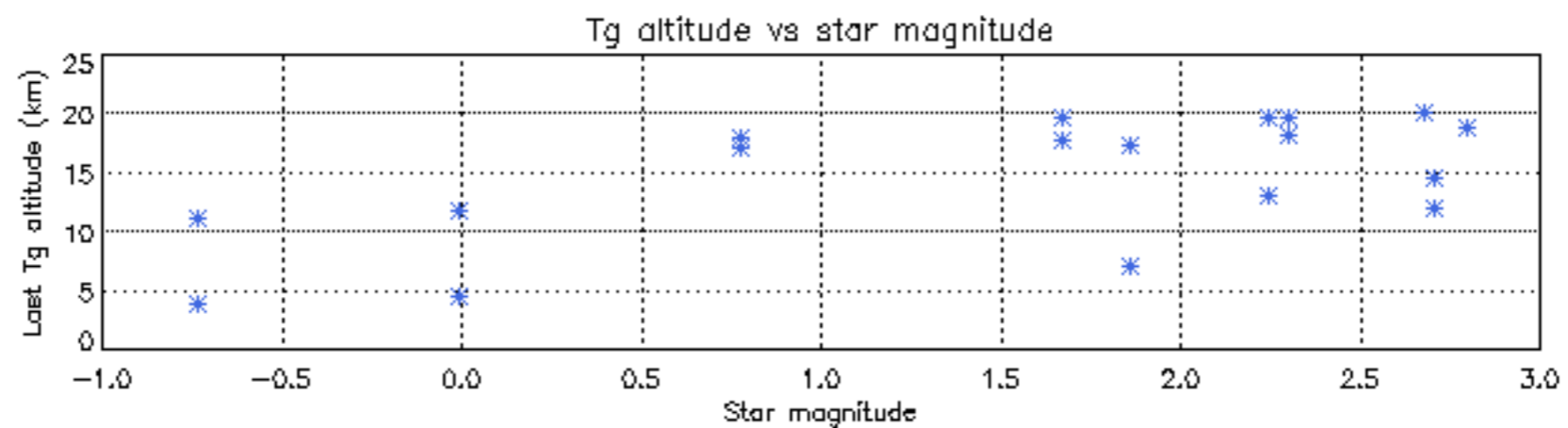
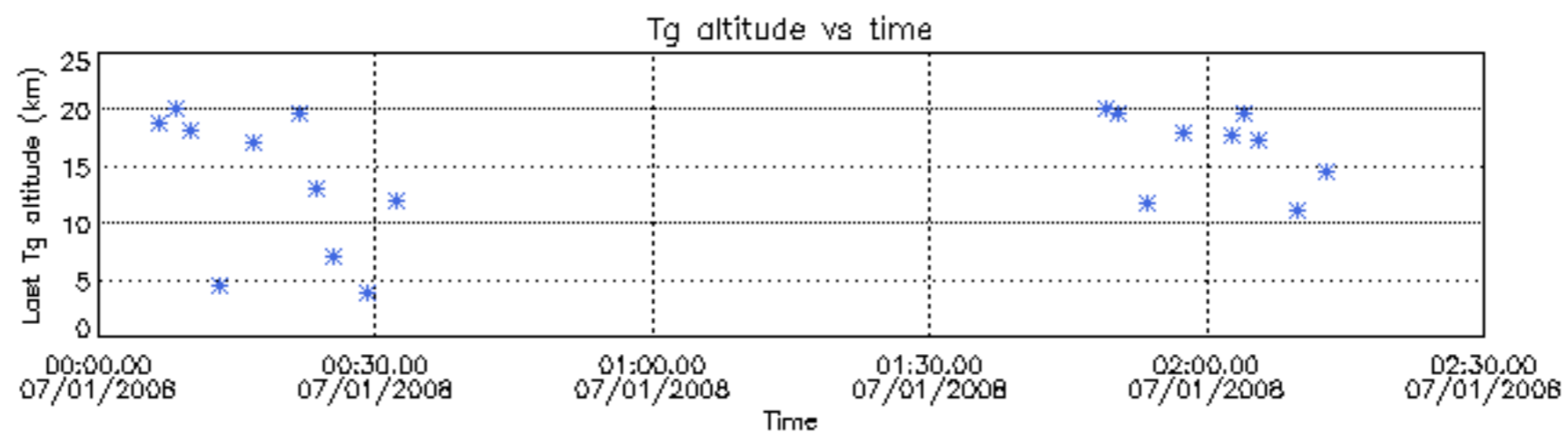
Percentage of star falling outside central band per profile



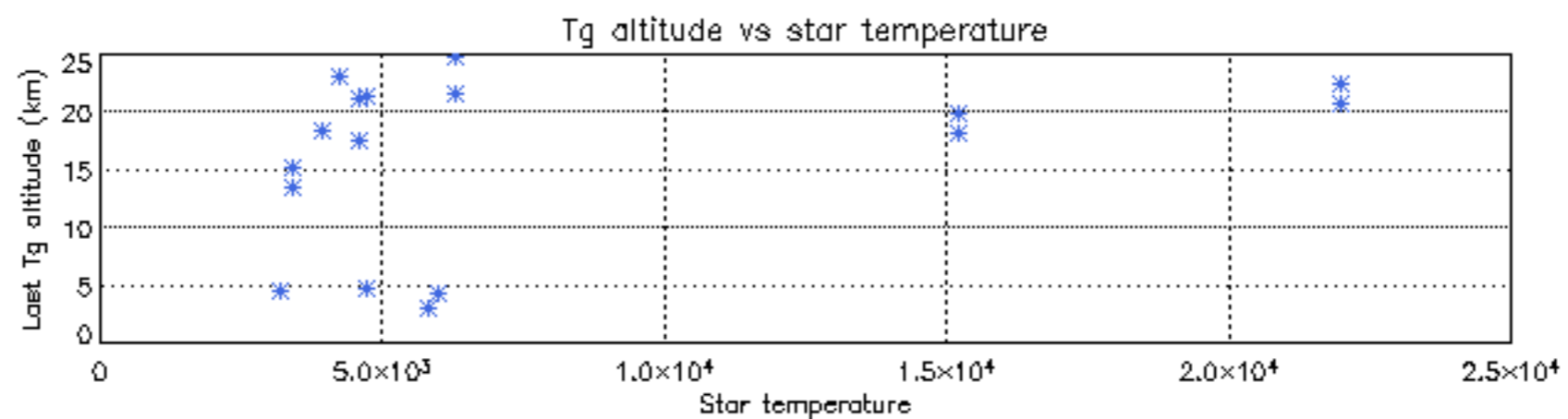
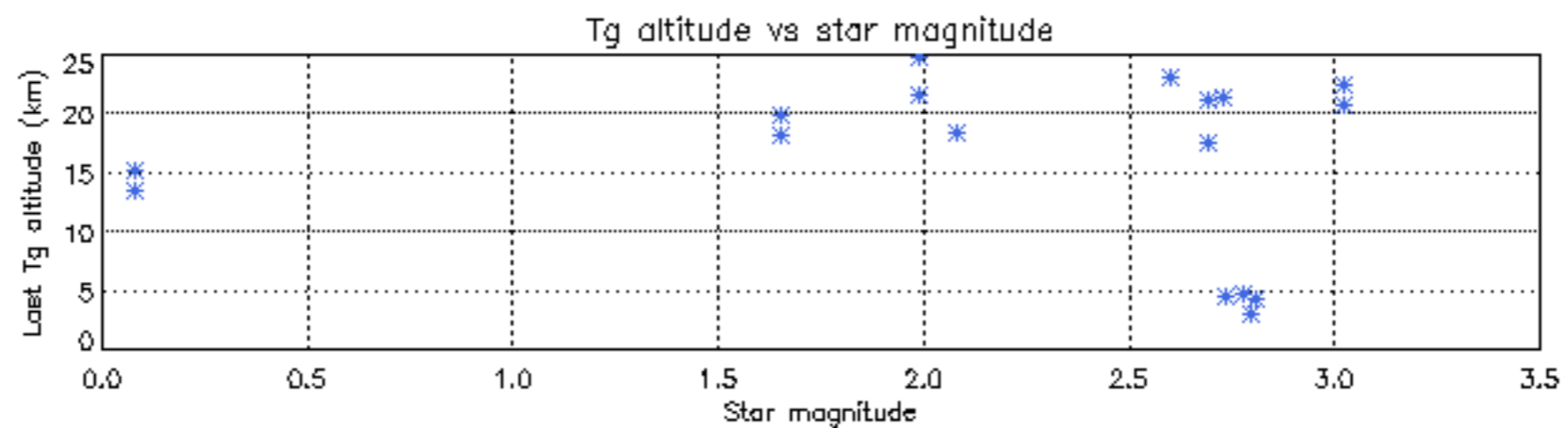
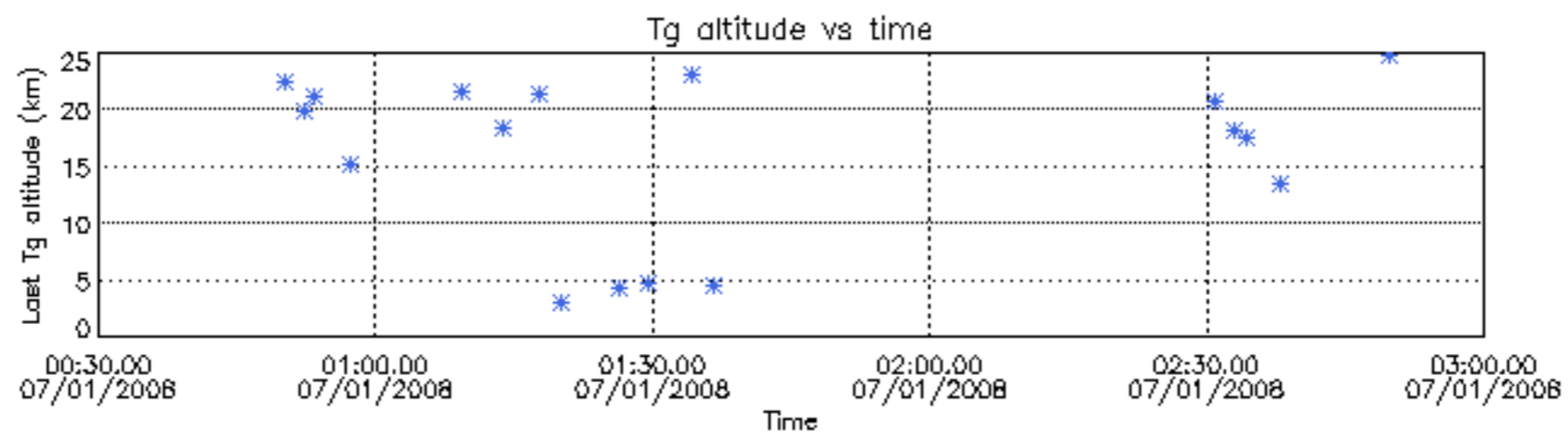
Percentage of saturation errors per profile

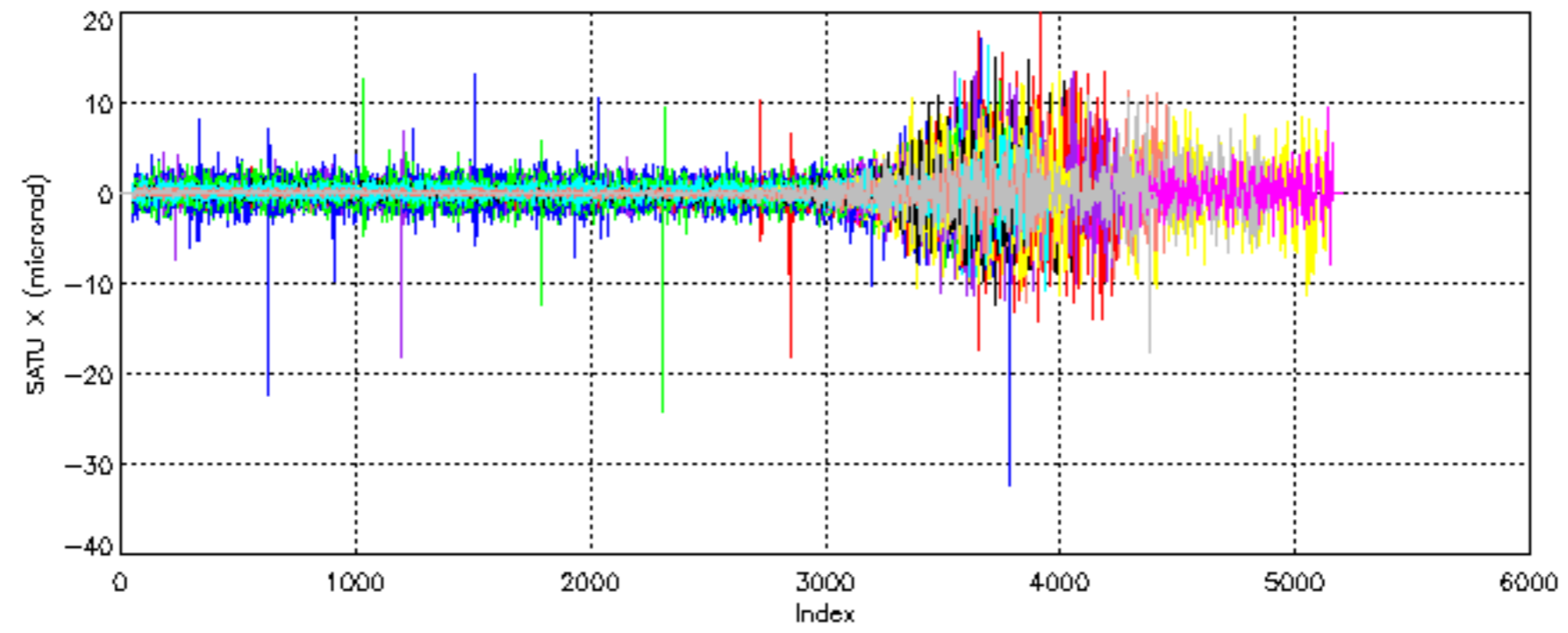


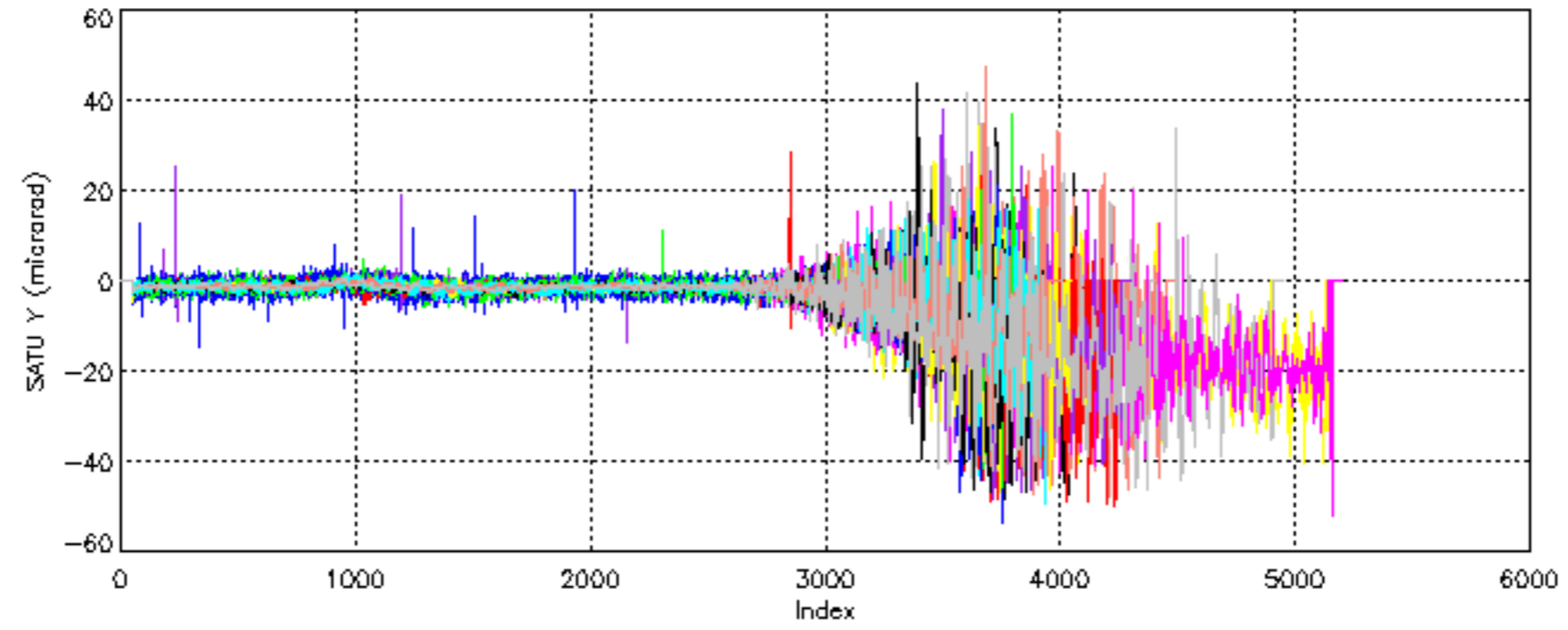
Tangent altitude at which the star is lost

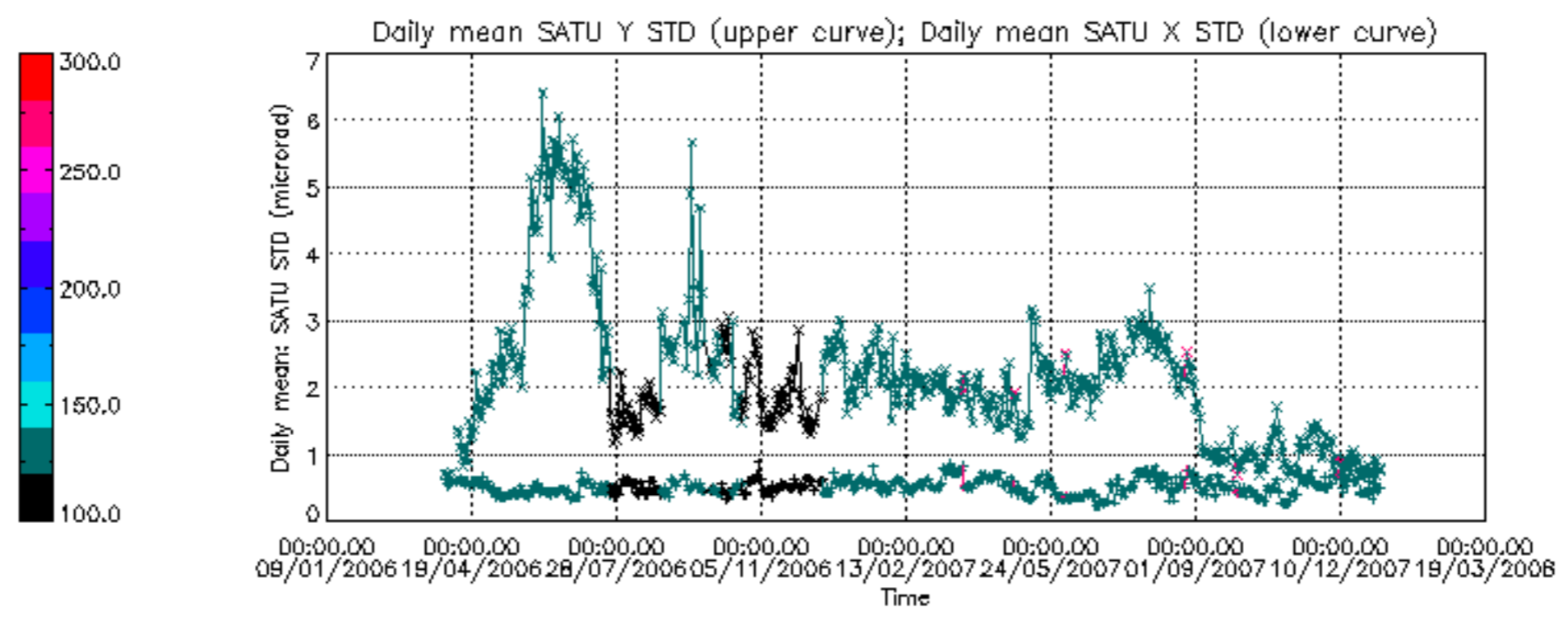


Tangent altitude at which the star is lost









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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
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 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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 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
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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
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 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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 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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 7; -1007.2; 01-JAN-2008 04:45:14; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30519
 8; -843.6; 01-JAN-2008 04:47:57; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30519
 9; -685.1; 01-JAN-2008 04:50:36; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;30519
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 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
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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
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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
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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
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16; 398.8; 01-JAN-2008 06:49:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30521
17; 546.3; 01-JAN-2008 06:51:43; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30521
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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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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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
12; 4048.1; 01-JAN-2008 07:50:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30521
13; 4421.7; 01-JAN-2008 07:56:19; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30521
14; 4545.7; 01-JAN-2008 07:58:23; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30521
15; 4889.9; 01-JAN-2008 08:04:07; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30521
16; 5029.3; 01-JAN-2008 08:06:26; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30521
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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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4; 1574.4; 03-JAN-2008 21:11:01; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30558
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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
14; 3923.4; 03-JAN-2008 21:50:10; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30558
15; 4054.4; 03-JAN-2008 21:52:21; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30558
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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25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565
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27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565
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13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
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8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
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14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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13; 3686.1; 04-JAN-2008 17:53:24; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30570
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16; 4429.6; 04-JAN-2008 18:05:47; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30570
17; 4554.8; 04-JAN-2008 18:07:52; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30570
18; 4905.2; 04-JAN-2008 18:13:43; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;30570
19; 5042.0; 04-JAN-2008 18:16:00; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30570
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21; 5315.7; 04-JAN-2008 18:20:33; Bright; 48.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 97; 0;30570
22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570
23; 5776.9; 04-JAN-2008 18:28:14; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30570
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28; 6449.4; 04-JAN-2008 18:39:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30570
29; 6600.3; 04-JAN-2008 18:41:58; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30570
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21; 5217.3; 04-JAN-2008 19:59:31; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30571
22; 5316.0; 04-JAN-2008 20:01:10; Bright; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;30571
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27; 6051.1; 04-JAN-2008 20:13:25; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30571
28; 6290.3; 04-JAN-2008 20:17:24; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30571
29; 6449.6; 04-JAN-2008 20:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30571
30; 6600.5; 04-JAN-2008 20:22:34; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30571
31; 6692.0; 04-JAN-2008 20:24:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30571
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11; 991.9; 05-JAN-2008 01:31:29; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30575
12; 1190.6; 05-JAN-2008 01:34:48; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30575
13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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15; 1777.0; 05-JAN-2008 01:44:34; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30575
16; 1885.3; 05-JAN-2008 01:46:22; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30575
17; 2031.3; 05-JAN-2008 01:48:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30575
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19; 2395.3; 05-JAN-2008 01:54:52; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30575
20; 2475.1; 05-JAN-2008 01:56:12; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30575
21; 2556.1; 05-JAN-2008 01:57:33; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30575
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23; 3423.7; 05-JAN-2008 02:12:01; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30575
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5; -1128.9; 05-JAN-2008 02:36:44; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30575
6; -992.7; 05-JAN-2008 02:39:00; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30575
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13; -70.1; 05-JAN-2008 02:54:23; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30575
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21; 1191.1; 05-JAN-2008 03:15:24; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30576
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23; 1577.0; 05-JAN-2008 03:21:50; Dark ; 44.0; 47; 2Bet CMA ; 1.98; 28000;occ; 88; 0;30576
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27; 2268.5; 05-JAN-2008 03:33:21; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;30576
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23; 1355.0; 05-JAN-2008 04:58:44; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30577
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20; 749.2; 05-JAN-2008 06:29:14; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;30578
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
31; 2555.6; 05-JAN-2008 06:59:21; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;30578
32; 2689.8; 05-JAN-2008 07:01:35; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30578
33; 3423.8; 05-JAN-2008 07:13:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30578
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9; 2394.9; 05-JAN-2008 20:21:27; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30586
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11; 2554.0; 05-JAN-2008 20:24:07; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30586
12; 2689.5; 05-JAN-2008 20:26:22; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30586

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 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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 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587
 10; 569.6; 05-JAN-2008 21:31:38; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30587
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 18; 1886.4; 05-JAN-2008 21:53:35; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30587
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 21; 2394.8; 05-JAN-2008 22:02:03; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30587
 22; 2476.2; 05-JAN-2008 22:03:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30587
 23; 2553.9; 05-JAN-2008 22:04:42; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30587
 24; 2689.4; 05-JAN-2008 22:06:58; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;30587
 25; 3423.8; 05-JAN-2008 22:19:12; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30587
 26; 3684.0; 05-JAN-2008 22:23:32; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30587
 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587
 28; 4058.9; 05-JAN-2008 22:29:47; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30587
 29; 4431.8; 05-JAN-2008 22:36:00; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30587
 30; 4610.0; 05-JAN-2008 22:38:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30587
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 32; 5046.5; 05-JAN-2008 22:46:15; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30587
 33; 5372.6; 05-JAN-2008 22:51:41; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30587

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 3; -1978.3; 05-JAN-2008 07:24:23; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30578
 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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 6; -1128.0; 05-JAN-2008 07:38:33; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30578
 7; -992.0; 05-JAN-2008 07:40:49; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30578
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 9; -717.8; 05-JAN-2008 07:45:23; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30578
 10; -608.1; 05-JAN-2008 07:47:13; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30578
 11; -340.9; 05-JAN-2008 07:51:40; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30578
 12; -255.2; 05-JAN-2008 07:53:06; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30578
 13; -165.8; 05-JAN-2008 07:54:35; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;30578
 14; -68.2; 05-JAN-2008 07:56:13; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 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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 5; 2395.1; 05-JAN-2008 10:17:52; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30580
 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
 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
 17; 5221.7; 05-JAN-2008 11:04:59; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;30580
 18; 5318.8; 05-JAN-2008 11:06:36; Bright; 43.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 87; 0;30580
 19; 5428.4; 05-JAN-2008 11:08:25; Dark ; 37.5; 158; 6Pi Sco ; 2.91; 28000;occ; 75; 0;30580
 20; 5695.6; 05-JAN-2008 11:12:52; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30580
 21; 5781.7; 05-JAN-2008 11:14:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30580
 22; 5871.0; 05-JAN-2008 11:15:48; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30580
 23; 5968.9; 05-JAN-2008 11:17:26; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30580
 24; 6054.1; 05-JAN-2008 11:18:51; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;30580
 25; 6295.0; 05-JAN-2008 11:22:52; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30580
 26; 6452.1; 05-JAN-2008 11:25:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30580
 27; 6603.6; 05-JAN-2008 11:28:00; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30580
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 31; 7228.7; 05-JAN-2008 11:38:26; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;30580
 32; 7391.8; 05-JAN-2008 11:41:09; Dark ; 27.0; 23; 21Eps CMa ; 1.50; 26000;occ; 54; 0;30580
 33; 7613.6; 05-JAN-2008 11:44:50; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;30580

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 4; 2031.2; 05-JAN-2008 11:52:24; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;30581
 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581
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 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581
 10; 3423.8; 05-JAN-2008 12:15:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30581
 11; 3684.9; 05-JAN-2008 12:19:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30581
 12; 3924.0; 05-JAN-2008 12:23:57; Bright; 11.5; 119; 14Eta Dra ; 2.73; 4700;occ; 23; 0;30581

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 3; -1604.7; 05-JAN-2008 12:32:24; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30581
 4; -1426.9; 05-JAN-2008 12:35:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30581
 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581
 7; -813.6; 05-JAN-2008 12:45:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30581
 8; -716.7; 05-JAN-2008 12:47:12; Bright; 18.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 36; 0;30581

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 3; -339.8; 05-JAN-2008 12:53:29; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30581
 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
 6; -66.2; 05-JAN-2008 12:58:02; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30581
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 9; 416.6; 05-JAN-2008 13:06:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30582
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28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609
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9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610
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12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
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12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
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7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
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31; 7499.3; 11-JAN-2008 11:54:26; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;30666

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26;	6677.8;	21-JAN-2008	16:28:10;	Dark	;	40.5;	29;	Bet Car	;	1.67;	10200;occ;	81;	0;	30812
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32; 5262.1; 23-JAN-2008 23:24:20; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;30845
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27; 3426.5; 24-JAN-2008 00:34:20; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30846
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2;	1778.7;	23-JAN-2008	14:03:17;	Dark	;	39.5;	56;	53Kap Ori	;	2.07;	30000;occ;	79;	0;	30840
3;	1912.8;	23-JAN-2008	14:05:31;	Dark	;	42.5;	33;	50Zet Ori	;	1.77;	30000;occ;	85;	0;	30840
4;	2055.8;	23-JAN-2008	14:07:54;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	30840
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7;	2427.2;	23-JAN-2008	14:14:05;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	30840
8;	2546.0;	23-JAN-2008	14:16:04;	Bright;	;	34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30840
9;	2674.9;	23-JAN-2008	14:18:13;	Bright;	;	34.5;	42;	34Bet Aur	;	1.90;	10200;occ;	69;	0;	30840
10;	3426.6;	23-JAN-2008	14:30:44;	Bright;	;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	30840
11;	4084.8;	23-JAN-2008	14:41:43;	Bright;	;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30840
12;	4285.1;	23-JAN-2008	14:45:03;	Bright;	;	34.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	68;	0;	30840
13;	4765.0;	23-JAN-2008	14:53:03;	Bright;	;	35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	30840
14;	4891.3;	23-JAN-2008	14:55:09;	Bright;	;	33.5;	126;	60Bet Oph	;	2.77;	4250;occ;	67;	0;	30840
15;	5260.6;	23-JAN-2008	15:01:19;	Bright;	;	37.5;	86;	35Eta Oph	;	2.43;	10200;occ;	75;	0;	30840
16;	5496.0;	23-JAN-2008	15:05:14;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	30840
17;	5583.2;	23-JAN-2008	15:06:41;	Dark	;	40.0;	25;	35Lam Sco	;	1.62;	28000;occ;	80;	0;	30840
18;	5676.4;	23-JAN-2008	15:08:14;	Dark	;	40.0;	40;	The Sco	;	1.86;	7100;occ;	80;	0;	30840
19;	5791.5;	23-JAN-2008	15:10:09;	Dark	;	36.5;	147;	Alp Ara	;	2.88;	26000;occ;	73;	0;	30840
20;	5886.8;	23-JAN-2008	15:11:45;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;	30840
21;	6084.2;	23-JAN-2008	15:15:02;	Dark	;	36.5;	134;	Bet TrA	;	2.81;	6600;occ;	73;	0;	30840
22;	6229.4;	23-JAN-2008	15:17:27;	Dark	;	42.0;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;	30840
23;	6344.6;	23-JAN-2008	15:19:23;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30840
24;	6437.0;	23-JAN-2008	15:20:55;	Dark	;	41.0;	12;	Alp1Cru	;	0.77;	30000;occ;	82;	0;	30840
25;	6685.6;	23-JAN-2008	15:25:04;	Dark	;	38.5;	29;	Bet Car	;	1.67;	10200;occ;	77;	0;	30840
26;	6814.5;	23-JAN-2008	15:27:12;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	30840
27;	6923.6;	23-JAN-2008	15:29:02;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	30840
28;	7081.1;	23-JAN-2008	15:31:39;	Dark	;	43.0;	34;	Gam2Vel	;	1.79;	23000;occ;	86;	0;	30840
29;	7207.9;	23-JAN-2008	15:33:46;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	30840
30;	7299.0;	23-JAN-2008	15:35:17;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30840
31;	7447.6;	23-JAN-2008	15:37:46;	Dark	;	8.0;	23;	21Eps CMa	;	1.50;	26000;occ;	16;	0;	30840

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4;	1779.0;	23-JAN-2008	15:43:53;	Dark	;	41.0;	56;	53Kap Ori	;	2.07;	30000;occ;	82;	0;	30841
5;	1913.1;	23-JAN-2008	15:46:07;	Dark	;	39.5;	33;	50Zet Ori	;	1.77;	30000;occ;	79;	0;	30841
6;	2056.0;	23-JAN-2008	15:48:30;	Dark	;	44.5;	14;	58Alp Ori	;	0.87;	3000;occ;	89;	0;	30841
7;	2187.5;	23-JAN-2008	15:50:41;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	30841
8;	2293.5;	23-JAN-2008	15:52:27;	Bright;	;	39.5;	151;	13Mu Gem	;	2.89;	3000;occ;	79;	0;	30841
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12;	3426.6;	23-JAN-2008	16:11:20;	Bright;	;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	30841
13;	4084.9;	23-JAN-2008	16:22:19;	Bright;	;	34.5;	130;	23Bet Dra	;	2.80;	5800;occ;	69;	0;	30841
14;	4285.4;	23-JAN-2008	16:25:39;	Bright;	;	34.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	68;	0;	30841
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22;	5887.0;	23-JAN-2008	16:52:21;	Dark	;	45.5;	141;	Bet Ara	;	2.84;	4600;occ;	91;	0;	30841
23;	6084.6;	23-JAN-2008	16:55:38;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	30841
24;	6230.0;	23-JAN-2008	16:58:04;	Dark	;	46.0;	10;	Bet Cen	;	0.61;	28000;occ;	92;	0;	30841
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26;	6437.6;	23-JAN-2008	17:01:31;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;	30841
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30;	7081.5;	23-JAN-2008	17:12:15;	Dark	;	43.5;	34;	Gam2Vel	;	1.79;	23000;occ;	87;	0;	30841
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 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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 3; 2188.7; 25-JAN-2008 11:26:17; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30867
 4; 2295.5; 25-JAN-2008 11:28:04; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30867
 5; 2434.4; 25-JAN-2008 11:30:22; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30867
 6; 2549.4; 25-JAN-2008 11:32:17; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30867
 7; 2677.4; 25-JAN-2008 11:34:25; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30867
 8; 3426.7; 25-JAN-2008 11:46:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30867
 9; 4085.7; 25-JAN-2008 11:57:54; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30867
 10; 4289.7; 25-JAN-2008 12:01:18; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30867
 11; 4771.1; 25-JAN-2008 12:09:19; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30867
 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
 14; 5525.5; 25-JAN-2008 12:21:53; Dark ; 38.0; 136; 23Tau Sco ; 2.82; 30000;occ; 76; 0;30867
 15; 5613.2; 25-JAN-2008 12:23:21; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30867
 16; 5681.1; 25-JAN-2008 12:24:29; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30867
 17; 5796.0; 25-JAN-2008 12:26:24; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30867
 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
 20; 6178.1; 25-JAN-2008 12:32:46; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30867
 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
 24; 6824.7; 25-JAN-2008 12:43:33; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30867
 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
 30; 7535.7; 25-JAN-2008 12:55:24; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;30867

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 2; 1499.9; 25-JAN-2008 14:36:00; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;30869
 3; 1629.5; 25-JAN-2008 14:38:09; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;30869
 4; 2061.8; 25-JAN-2008 14:45:22; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30869
 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
 7; 2435.1; 25-JAN-2008 14:51:35; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30869
 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

15; 5271.2; 25-JAN-2008 15:38:51; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30869
 16; 5526.7; 25-JAN-2008 15:43:06; Dark ; 40.5; 136; 23Tau Sco ; 2.82; 30000;occ; 81; 0;30869
 17; 5613.9; 25-JAN-2008 15:44:34; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30869
 18; 5681.7; 25-JAN-2008 15:45:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30869
 19; 5796.6; 25-JAN-2008 15:47:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30869
 20; 5891.5; 25-JAN-2008 15:49:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;30869
 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
 29; 7216.0; 25-JAN-2008 16:11:16; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;30869
 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
 4; 1629.6; 25-JAN-2008 16:18:45; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;30870
 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
 14; 4771.9; 25-JAN-2008 17:11:08; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30870
 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
 19; 5681.8; 25-JAN-2008 17:26:18; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30870
 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
 26; 6693.8; 25-JAN-2008 17:43:10; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30870
 27; 6826.0; 25-JAN-2008 17:45:22; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30870
 28; 6934.1; 25-JAN-2008 17:47:10; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;30870
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 3; 1269.3; 25-JAN-2008 17:53:21; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30871
 4; 1417.2; 25-JAN-2008 17:55:49; Dark ; 38.5; 23; 21Eps CMa ; 1.50; 26000;occ; 77; 0;30871
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 12; 2677.7; 25-JAN-2008 18:16:49; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30871
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 16; 4772.1; 25-JAN-2008 18:51:44; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30871
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22; 5796.8; 25-JAN-2008 19:08:49; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30871
 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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 25; 6180.2; 25-JAN-2008 19:15:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;30871
 26; 6353.2; 25-JAN-2008 19:18:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30871
 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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 5; 1500.3; 25-JAN-2008 19:37:48; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;30872
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 13; 3426.8; 25-JAN-2008 20:09:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30872
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 16; 4772.2; 25-JAN-2008 20:32:20; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30872
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 25; 6180.6; 25-JAN-2008 20:55:48; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;30872
 26; 6353.4; 25-JAN-2008 20:58:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30872
 27; 6454.6; 25-JAN-2008 21:00:22; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;30872
 28; 6694.2; 25-JAN-2008 21:04:22; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30872
 29; 6826.5; 25-JAN-2008 21:06:34; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30872
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 13; 4086.3; 26-JAN-2008 21:29:53; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30887
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7; 901.2; 26-JAN-2008 08:52:36; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;30880
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23; 6697.2; 26-JAN-2008 15:31:00; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30883
24; 6830.8; 26-JAN-2008 15:33:13; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;30883
25; 6938.4; 26-JAN-2008 15:35:01; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30883
26; 7093.8; 26-JAN-2008 15:37:36; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30883
27; 7220.1; 26-JAN-2008 15:39:43; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30883
28; 7308.0; 26-JAN-2008 15:41:11; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;30883

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7; 2679.4; 26-JAN-2008 16:04:38; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30884
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 19; 6186.9; 26-JAN-2008 17:03:06; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30884
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 17; 5277.2; 26-JAN-2008 18:28:32; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;30885
 18; 5520.4; 26-JAN-2008 18:32:35; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;30885
 19; 5603.3; 26-JAN-2008 18:33:58; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;30885
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21;	2554.8;	27-JAN-2008	23:53:56;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	30903
22;	2681.8;	27-JAN-2008	23:56:03;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	30903
23;	3427.2;	28-JAN-2008	00:08:29;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	30903
24;	4087.0;	28-JAN-2008	00:19:28;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	30903
25;	4295.5;	28-JAN-2008	00:22:57;	Bright;		35.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	70;	0;	30903
26;	4780.0;	28-JAN-2008	00:31:01;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	30903
27;	4906.8;	28-JAN-2008	00:33:08;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30903
28;	5284.6;	28-JAN-2008	00:39:26;	Dark	;	30.5;	86;	35Eta Oph	;	2.43;	10200;occ;	61;	0;	30903
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5;	-755.5;	27-JAN-2008	07:53:23;	Dark	;	43.5;	86;	35Eta Oph	;	2.43;	10200;occ;	87;	0;	30893
6;	-510.9;	27-JAN-2008	07:57:27;	Dark	;	51.0;	16;	21Alp Sco	;	1.02;	3000;occ;	102;	0;	30893
7;	-429.2;	27-JAN-2008	07:58:49;	Dark	;	43.5;	75;	26Eps Sco	;	2.29;	4250;occ;	87;	0;	30893
8;	-349.3;	27-JAN-2008	08:00:09;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;	30893
9;	65.3;	27-JAN-2008	08:07:03;	Dark	;	36.0;	134;	Bet TrA	;	2.81;	6600;occ;	72;	0;	30894
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11;	323.2;	27-JAN-2008	08:11:21;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30894
12;	430.3;	27-JAN-2008	08:13:08;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	30894
13;	664.0;	27-JAN-2008	08:17:02;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	30894
14;	798.4;	27-JAN-2008	08:19:16;	Dark	;	40.5;	71;	Iot Car	;	2.25;	7700;occ;	81;	0;	30894

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 16; 1060.8; 27-JAN-2008 08:23:39; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;30894
 17; 1186.8; 27-JAN-2008 08:25:45; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30894
 18; 1274.1; 27-JAN-2008 08:27:12; Dark ; 38.0; 117; Pi Pup ; 2.71; 3800;occ; 76; 0;30894
 19; 1421.4; 27-JAN-2008 08:29:39; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;30894
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 21; 1633.5; 27-JAN-2008 08:33:12; Dark ; 30.0; 1; 9Alp Cma ; -1.44; 11000;occ; 60; 0;30894

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 9; 4294.1; 27-JAN-2008 09:17:32; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;30894
 10; 4777.7; 27-JAN-2008 09:25:36; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;30894
 11; 4904.4; 27-JAN-2008 09:27:42; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30894
 12; 5280.8; 27-JAN-2008 09:33:59; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30894
 13; 5525.6; 27-JAN-2008 09:38:04; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;30894
 14; 5607.2; 27-JAN-2008 09:39:25; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30894
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 16; 6101.6; 27-JAN-2008 09:47:40; Dark ; 35.5; 134; Bet TrA ; 2.81; 6600;occ; 71; 0;30894
 17; 6192.0; 27-JAN-2008 09:49:10; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30894
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 19; 6466.7; 27-JAN-2008 09:53:45; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30894
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 21; 6834.7; 27-JAN-2008 09:59:53; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30894
 22; 6942.0; 27-JAN-2008 10:01:40; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30894
 23; 7096.9; 27-JAN-2008 10:04:15; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;30894
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 26; 7457.4; 27-JAN-2008 10:10:15; Dark ; 41.5; 23; 21Eps Cma ; 1.50; 26000;occ; 83; 0;30894
 27; 7540.3; 27-JAN-2008 10:11:38; Dark ; 36.0; 179; 240mi2Cma ; 3.03; 24000;occ; 72; 0;30894
 28; 7669.5; 27-JAN-2008 10:13:48; Dark ; 43.0; 1; 9Alp Cma ; -1.44; 11000;occ; 86; 0;30894

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 3; 2298.4; 27-JAN-2008 10:24:52; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30895
 4; 2553.4; 27-JAN-2008 10:29:07; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30895
 5; 2680.7; 27-JAN-2008 10:31:15; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;30895
 6; 3427.1; 27-JAN-2008 10:43:41; Bright; 34.5; 49; 1Alp Umi ; 1.99; 6300;occ; 69; 0;30895
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 8; 4294.1; 27-JAN-2008 10:58:08; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;30895
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 11; 5281.2; 27-JAN-2008 11:14:35; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30895
 12; 5526.1; 27-JAN-2008 11:18:40; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 0;30895
 13; 5607.6; 27-JAN-2008 11:20:02; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;30895
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 15; 6101.8; 27-JAN-2008 11:28:16; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;30895
 16; 6192.5; 27-JAN-2008 11:29:46; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30895
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 26; 7540.4; 27-JAN-2008 11:52:14; Dark ; 38.0; 179; 240mi2Cma ; 3.03; 24000;occ; 76; 0;30895
 27; 7669.6; 27-JAN-2008 11:54:24; Dark ; 27.5; 1; 9Alp Cma ; -1.44; 11000;occ; 55; 0;30895

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9; 4294.4; 27-JAN-2008 12:38:44; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;30896
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13; 5526.8; 27-JAN-2008 12:59:17; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;30896
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22; 6942.7; 27-JAN-2008 13:22:53; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;30896
23; 7097.5; 27-JAN-2008 13:25:27; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30896
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15; 5608.7; 27-JAN-2008 14:41:14; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;30897
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17; 6102.6; 27-JAN-2008 14:49:28; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30897
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 23; 6951.8; 29-JAN-2008 12:19:47; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30924
 24; 7105.2; 29-JAN-2008 12:22:21; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;30924
 25; 7230.8; 29-JAN-2008 12:24:26; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30924
 26; 7315.9; 29-JAN-2008 12:25:52; Dark ; 38.0; 117; Pi Pup ; 2.71; 3800;occ; 76; 0;30924
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 28; 7545.3; 29-JAN-2008 12:29:41; Dark ; 35.5; 179; 240mi2CMa ; 3.03; 24000;occ; 71; 0;30924

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 9; 3427.6; 29-JAN-2008 13:01:39; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30925
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 19; 6112.4; 29-JAN-2008 13:46:24; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30925
 20; 6208.3; 29-JAN-2008 13:48:00; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30925

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 22; 6483.7; 29-JAN-2008 13:52:35; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30925
 23; 6708.2; 29-JAN-2008 13:56:20; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30925
 24; 6845.7; 29-JAN-2008 13:58:37; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30925
 25; 6952.1; 29-JAN-2008 14:00:24; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;30925
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 14; 4913.6; 29-JAN-2008 16:47:37; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30927
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3; 1280.6; 29-JAN-2008 17:27:40; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30928
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5; 1510.1; 29-JAN-2008 17:31:29; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;30928
6; 1639.1; 29-JAN-2008 17:33:38; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30928
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19; 5626.9; 29-JAN-2008 18:40:06; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30928
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16; 4914.1; 29-JAN-2008 20:08:49; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30929
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