

GOMOS Daily Report 10-DEC-2009

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	13DEC2009 04:47:39
Data source version	GOMOS/5.00L04
Start time of products	10DEC2009 00:04:33
Stop time of products	10DEC2009 23:57:46
Store outputs in DB	Yes
Nb of level 1b prods	116
Nb of prods with errors	1

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

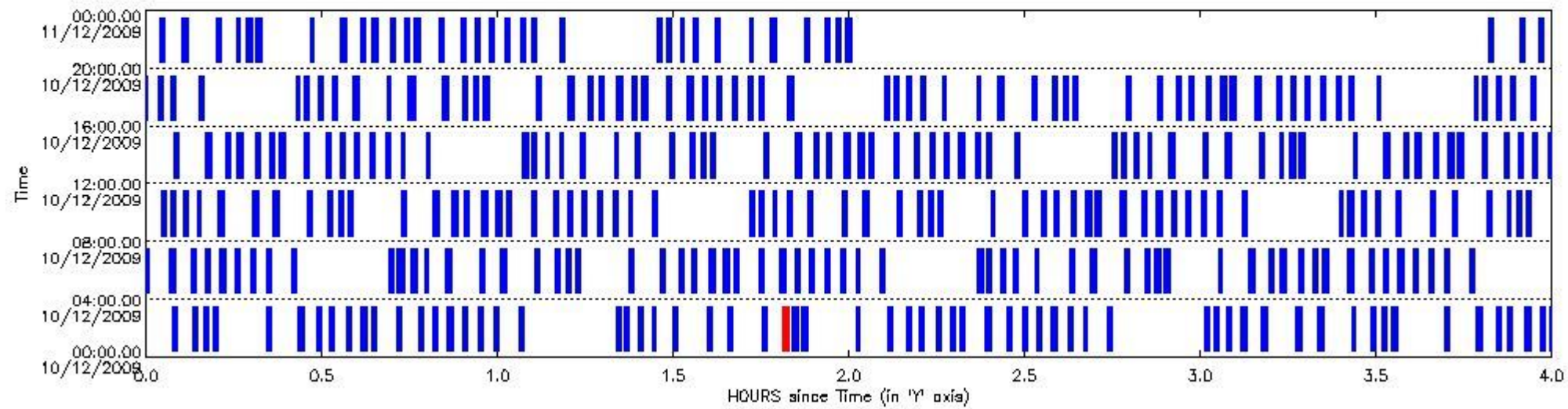
2.1 Level 0 products arrived in PCF (see template [here](#))

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).

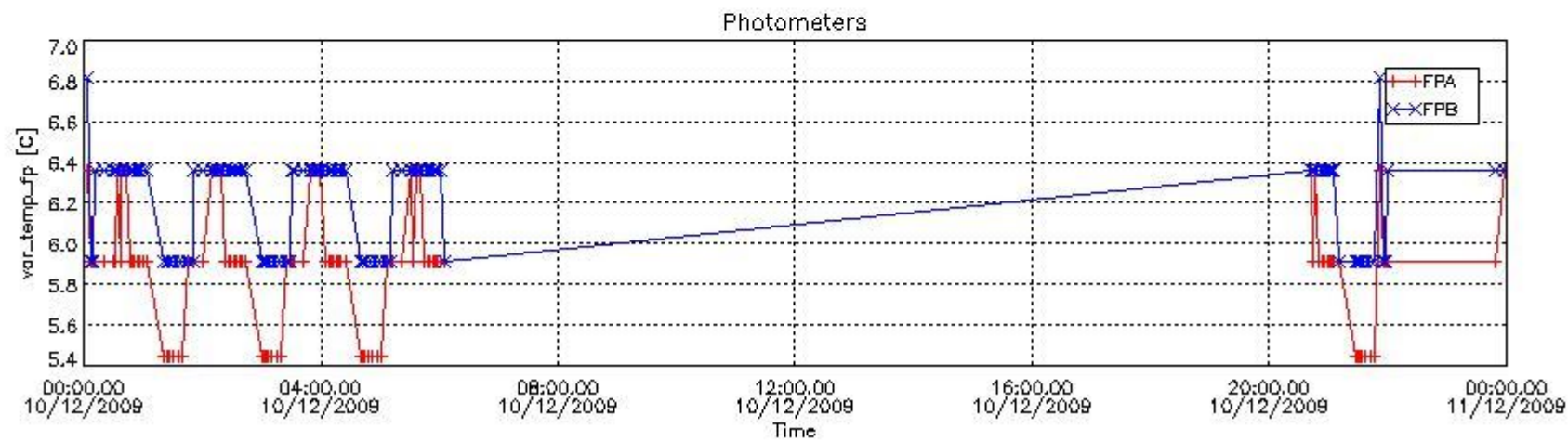
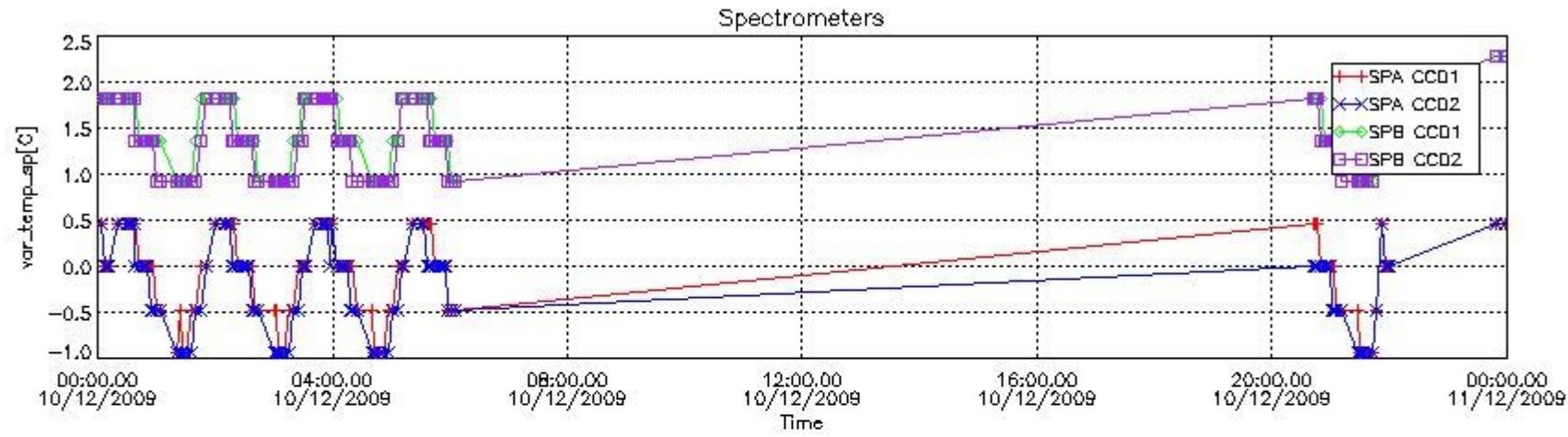


2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
10-DEC-2009 01:48:46	46GamHya	169	40666

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_1PNPDE20091210_000433_000000472085_00030_40665_7247.N1	10-DEC-2009 00:04:33	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	40665	No
2	GOM_TRA_1PNPDE20091210_000801_000000422085_00030_40665_7248.N1	10-DEC-2009 00:08:01	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	40665	No
3	GOM_TRA_1PNPDE20091210_000944_000000512085_00030_40665_7249.N1	10-DEC-2009 00:09:44	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	40665	No
4	GOM_TRA_1PNPDE20091210_001121_000000512085_00030_40665_7250.N1	10-DEC-2009 00:11:21	Dark	50.500	171	2Eps Crv	3.0010	4250.0	101	40665	No
5	GOM_TRA_1PNPDE20091210_002033_000000452085_00031_40666_7251.N1	10-DEC-2009 00:20:33	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40666	No
6	GOM_TRA_1PNPDE20091210_002911_000000452085_00031_40666_7252.N1	10-DEC-2009 00:29:11	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	40666	No
7	GOM_TRA_1PNPDE20091210_003113_000000522085_00031_40666_7253.N1	10-DEC-2009 00:31:13	Dark	52.000	70	Zet Pup	2.2460	39000.	104	40666	No
8	GOM_TRA_1PNPDE20091210_003414_000000512085_00031_40666_7254.N1	10-DEC-2009 00:34:14	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	40666	No
9	GOM_TRA_1PNPDE20091210_003642_000000532085_00031_40666_7255.N1	10-DEC-2009 00:36:42	Dark	53.000	88	31Eta CMa	2.4480	20000.	106	40666	No
10	GOM_TRA_1PNPDE20091210_003825_000000472085_00031_40666_7256.N1	10-DEC-2009 00:38:25	Straylight	47.000	37	25Del CMa	1.8300	5900.0	94	40666	No



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).

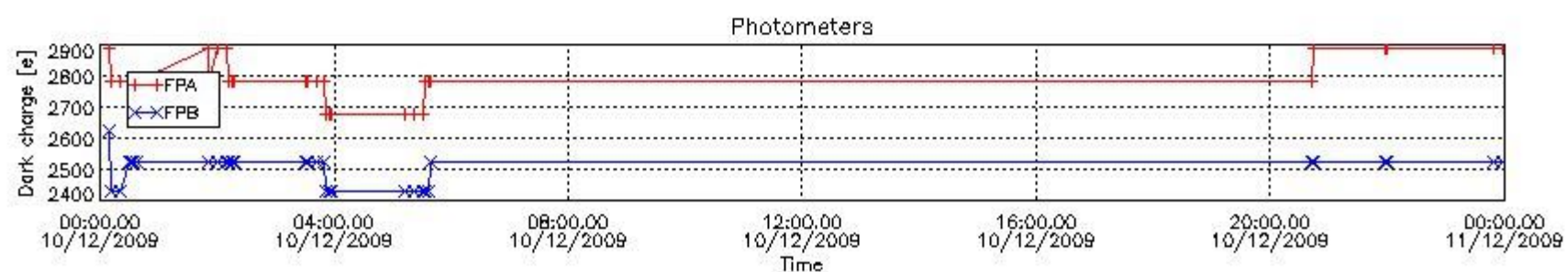
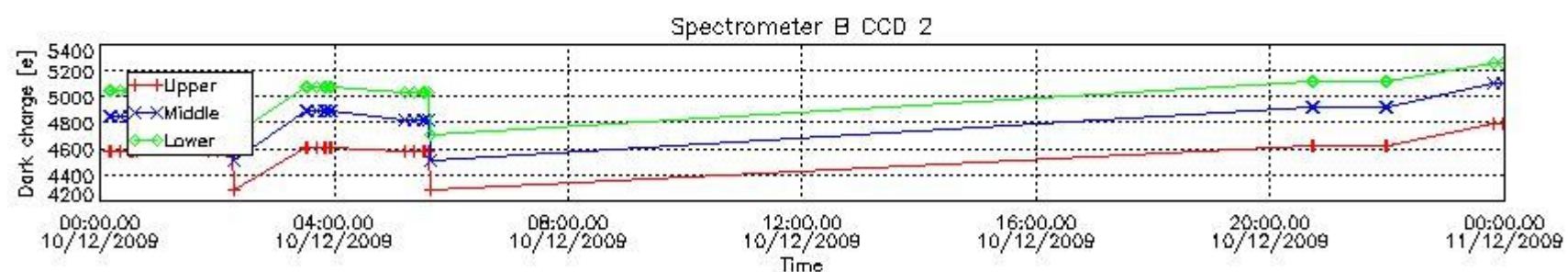
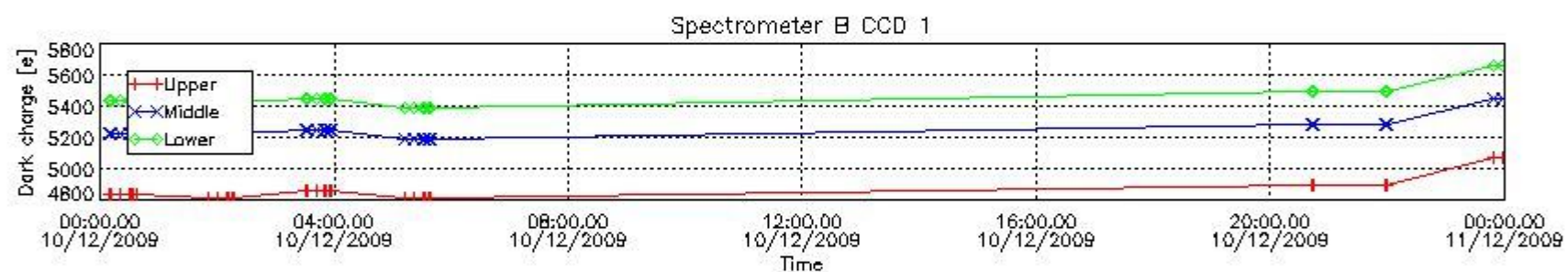
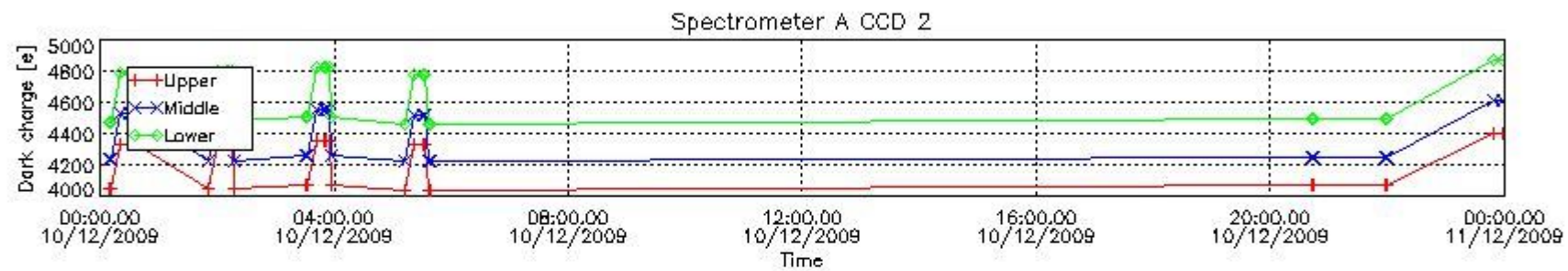
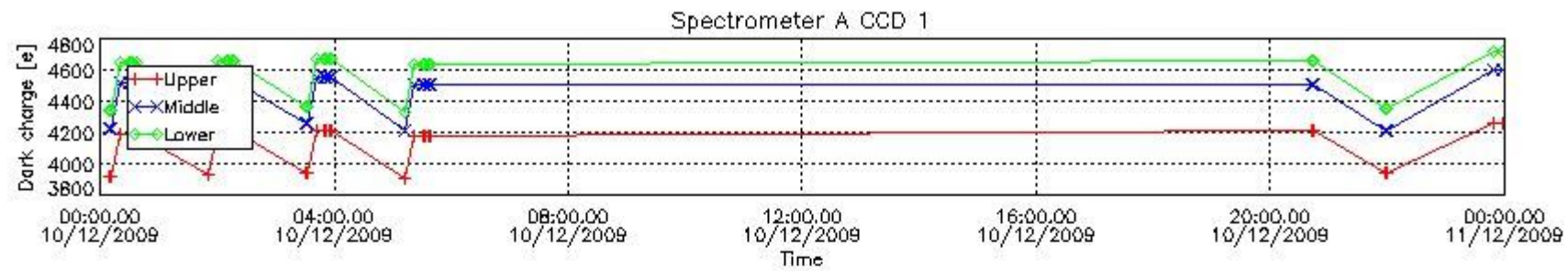
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091210_204134_000000552085_00043_40678_7396.N1	DC map used
GOM_TRA_1PNPDE20091210_204401_000000592085_00043_40678_7397.N1	DC map used
GOM_TRA_1PNPDE20091210_204543_000000642085_00043_40678_7398.N1	DC map used
GOM_TRA_1PNPDE20091210_204957_000000562085_00043_40678_7399.N1	DC map used
GOM_TRA_1PNPDE20091210_205338_000000502085_00043_40678_7400.N1	DC map used
GOM_TRA_1PNPDE20091210_205606_000000512085_00043_40678_7401.N1	DC map used
GOM_TRA_1PNPDE20091210_205832_000000512085_00043_40678_7402.N1	DC map used
GOM_TRA_1PNPDE20091210_210108_000000492085_00043_40678_7403.N1	DC map used
GOM_TRA_1PNPDE20091210_210351_000000452085_00043_40678_7404.N1	DC map used
GOM_TRA_1PNPDE20091210_210552_000000442085_00043_40678_7405.N1	DC map used
GOM_TRA_1PNPDE20091210_211041_000000472085_00043_40678_7406.N1	DC map used
GOM_TRA_1PNPDE20091210_212715_000000472085_00043_40678_7407.N1	DC map used
GOM_TRA_1PNPDE20091210_212846_000000522085_00043_40678_7408.N1	DC map used
GOM_TRA_1PNPDE20091210_213107_000000412085_00043_40678_7409.N1	DC map used

GOM_TRA_1PNPDE20091210_213331_000000362085_00043_40678_7410.N1	DC map used
GOM_TRA_1PNPDE20091210_213704_000000442085_00043_40678_7411.N1	DC map used
GOM_TRA_1PNPDE20091210_214259_000000382085_00043_40678_7412.N1	DC map used
GOM_TRA_1PNPDE20091210_214634_000000672085_00043_40678_7413.N1	DC map used
GOM_TRA_1PNPDE20091210_215228_000000512085_00043_40678_7416.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091210_215557_000000462085_00043_40678_7417.N1	DC map used
GOM_TRA_1PNPDE20091210_215746_000000562085_00043_40678_7418.N1	DC map used
GOM_TRA_1PNPDE20091210_215922_000000572085_00043_40678_7419.N1	DC map used

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



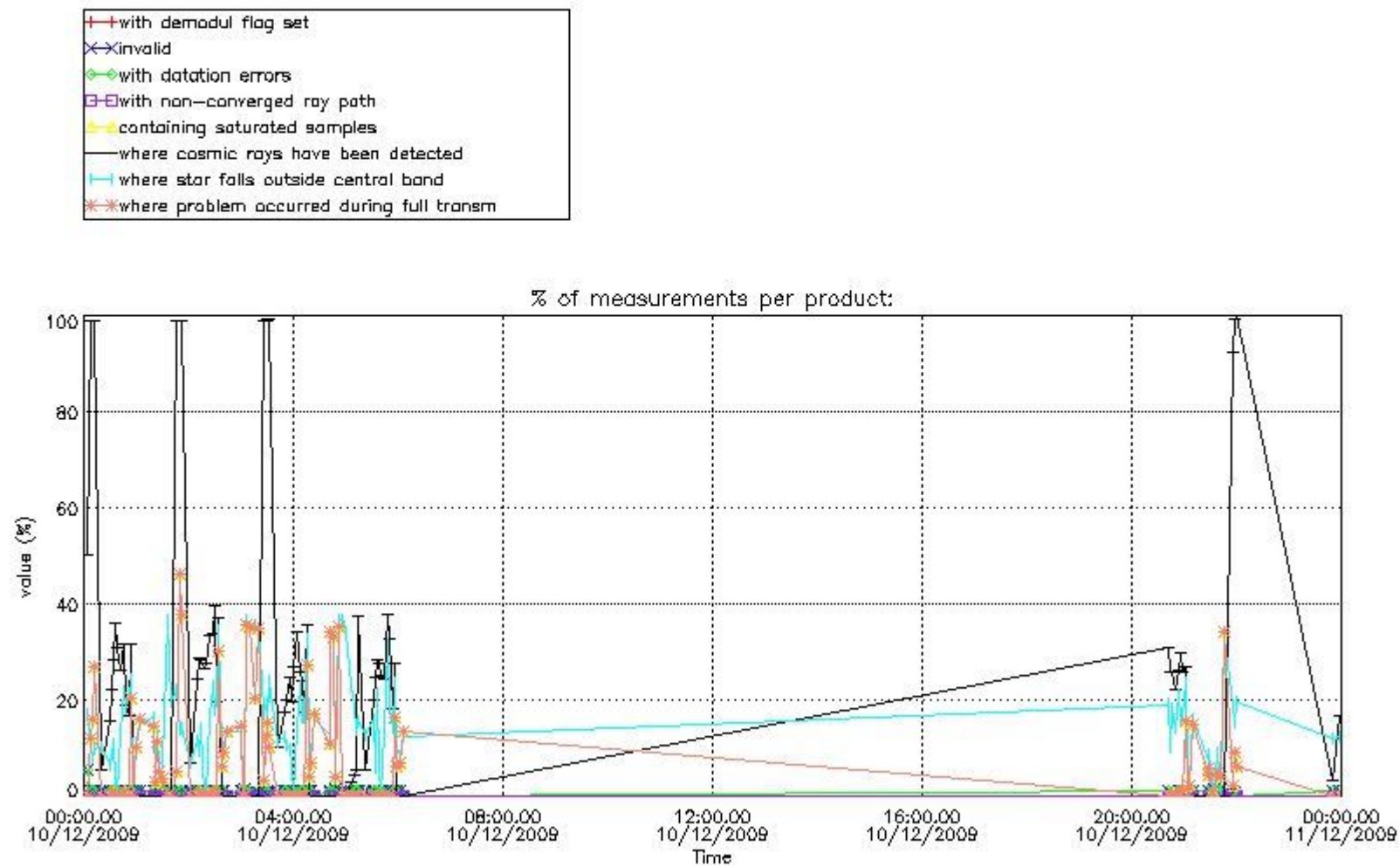
5. Demodulation flag and quality information monitoring

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.

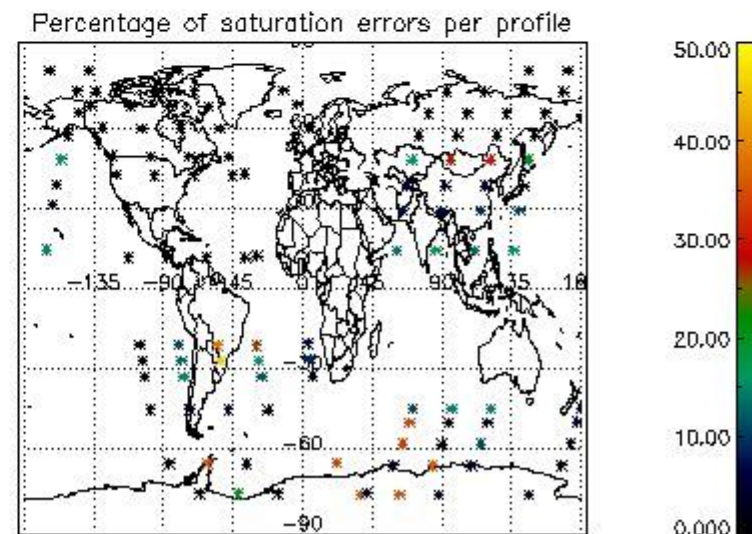
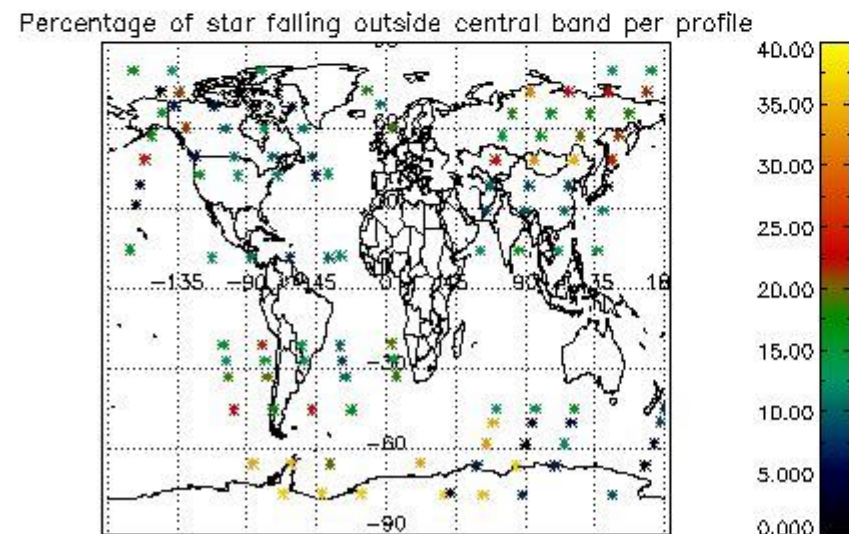
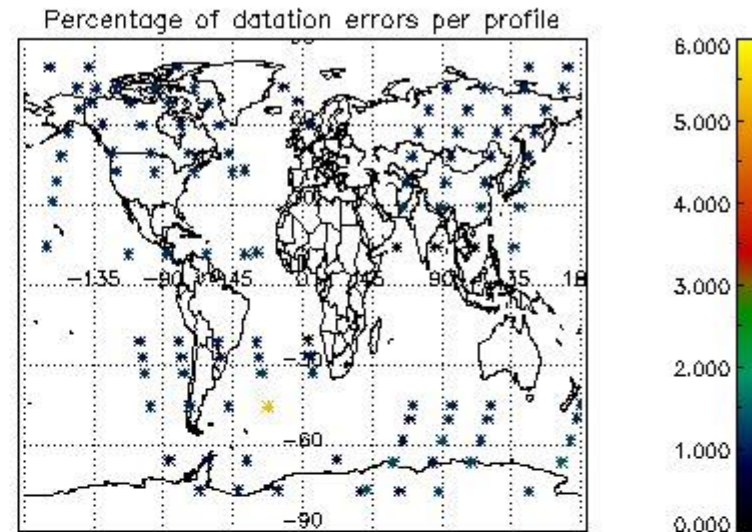
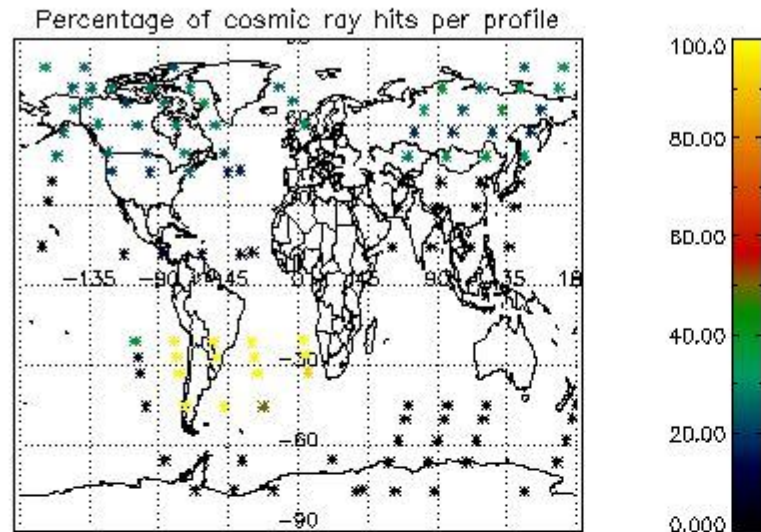
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	52.1739 %
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)



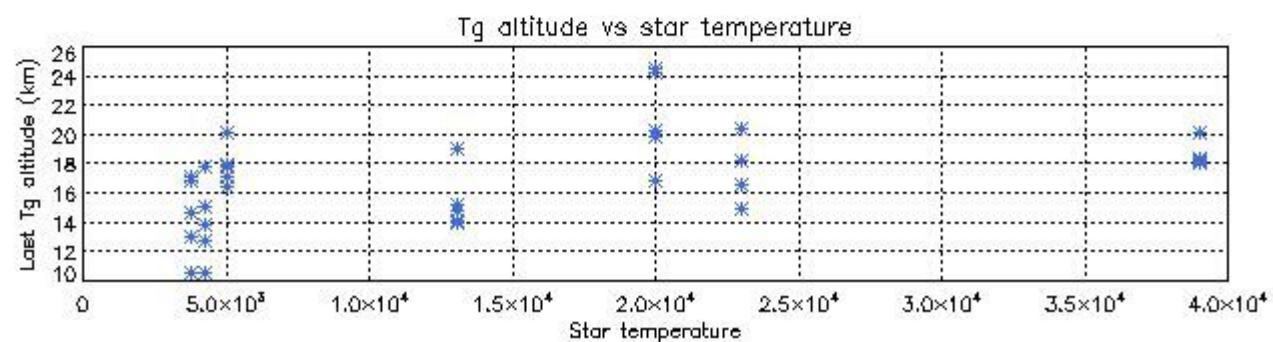
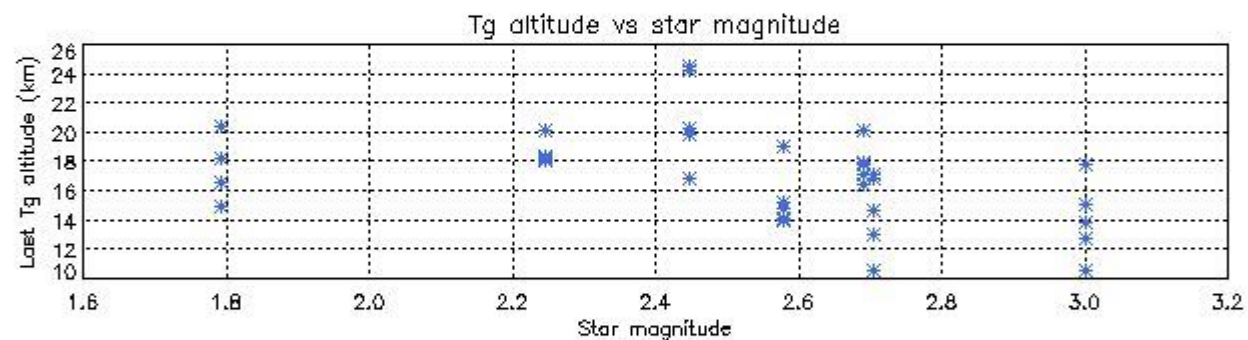
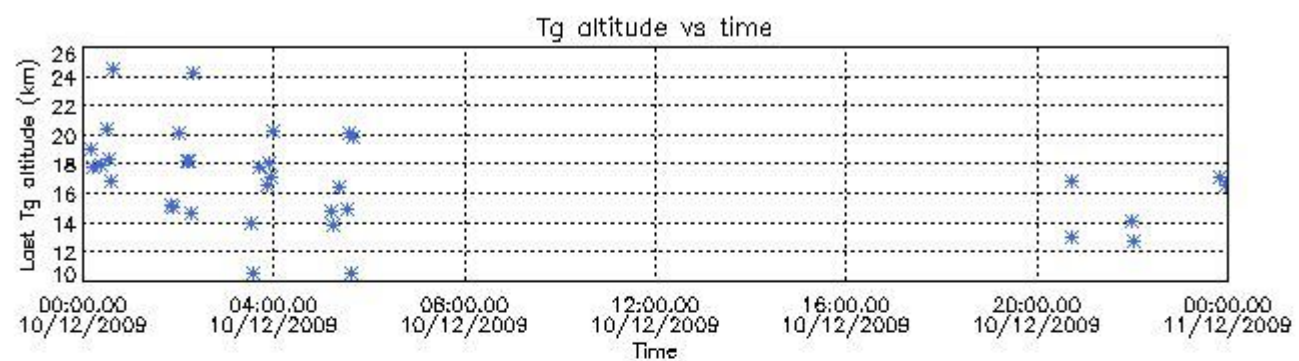
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.929	14.784	13.539
St. deviation:	3.2012	7.0946	1.8330
Maximum:	24.429	27.352	16.282
Minimum:	10.488	3.3634	12.452
Number of data:	34.000	47.000	4.0000

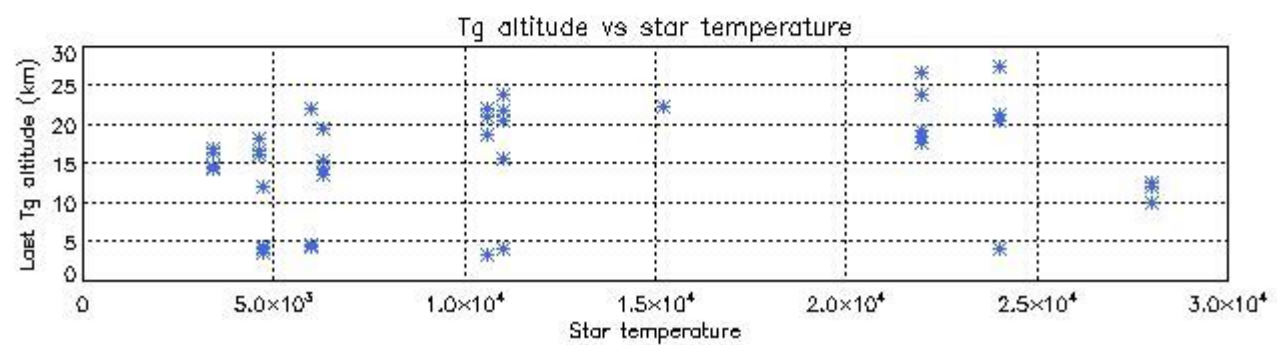
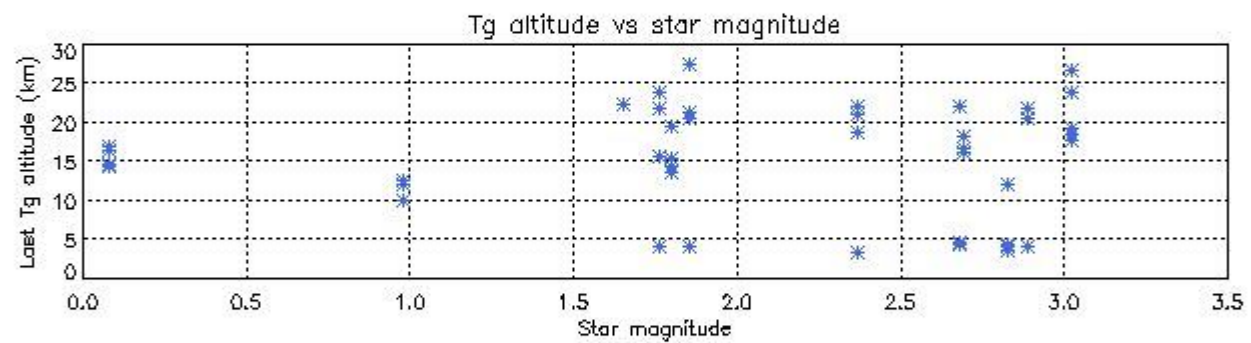
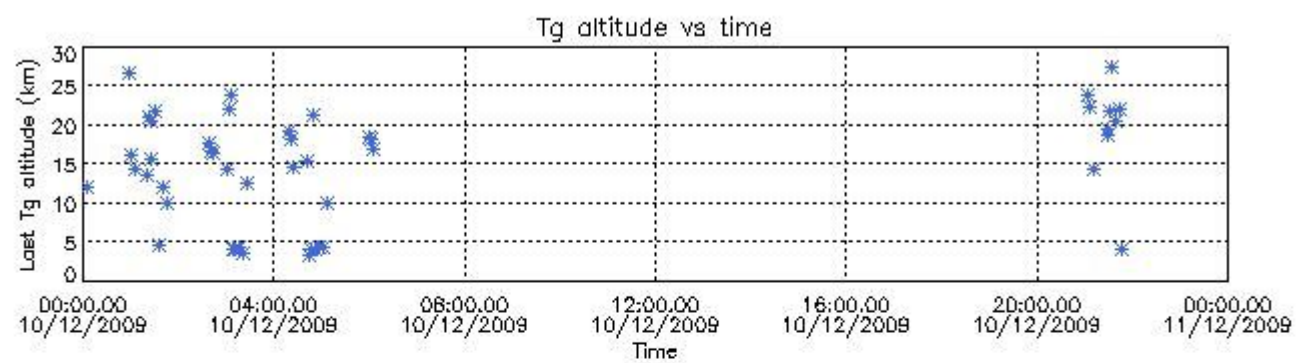
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



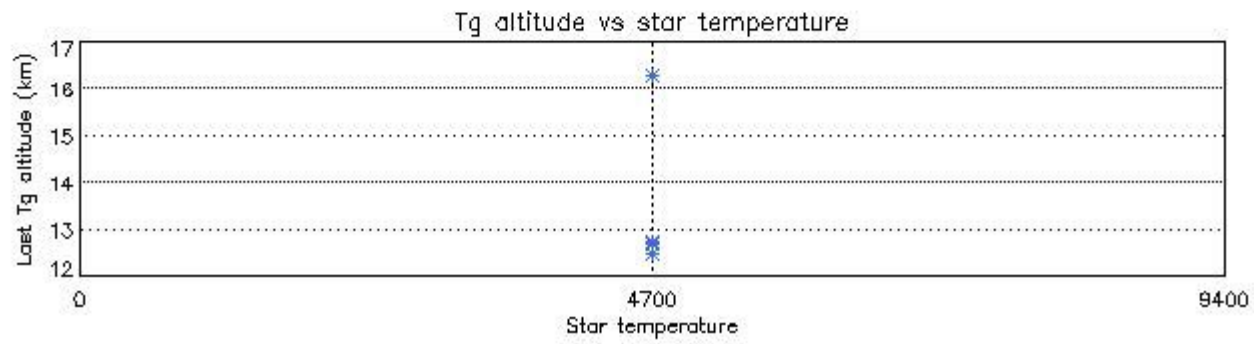
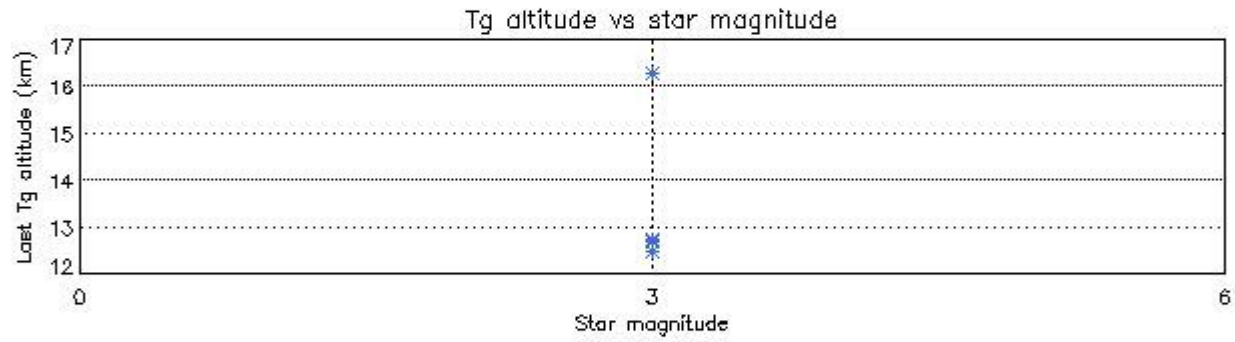
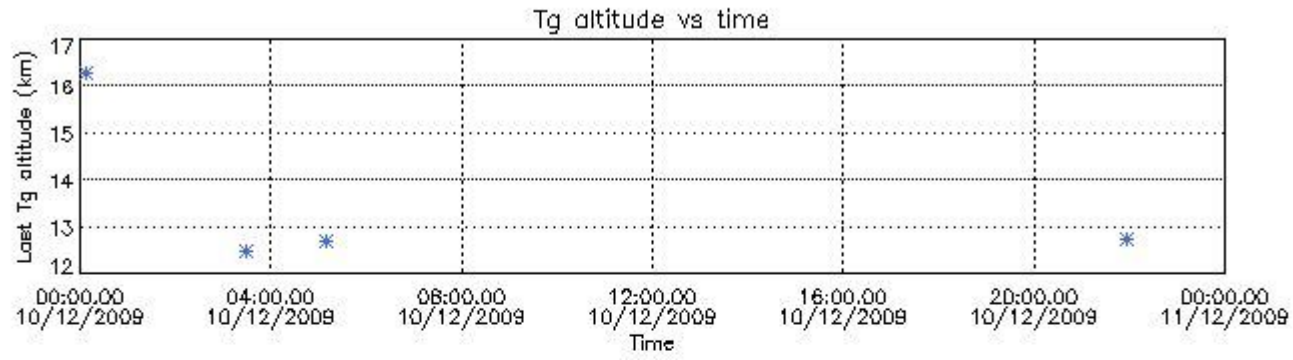
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

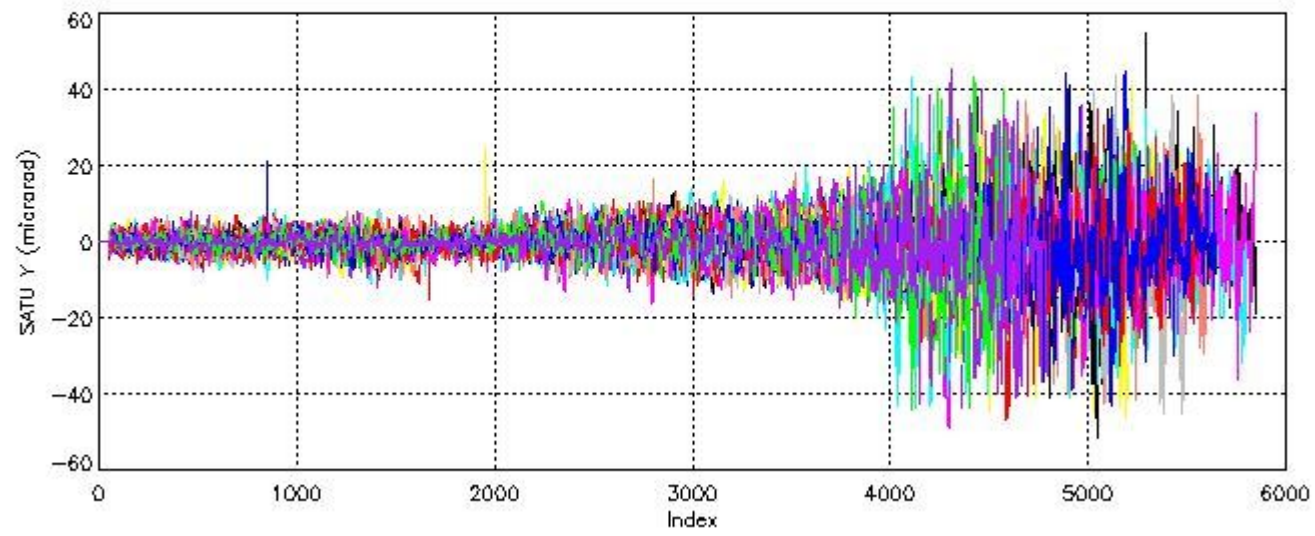
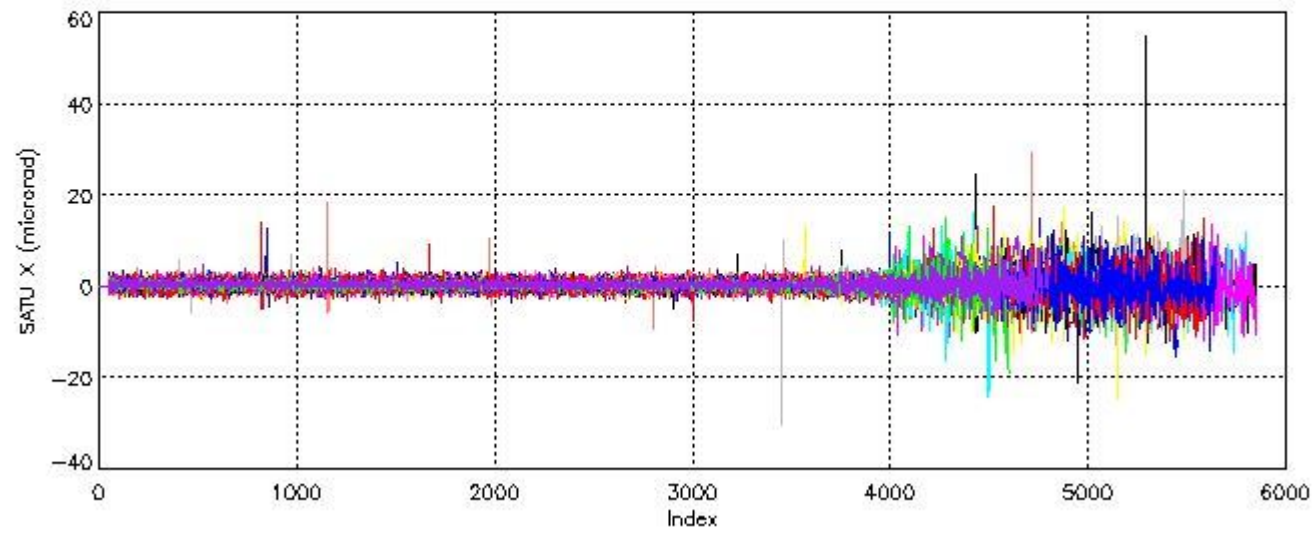


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29049	-0.046185	0.20404	-0.30006
St. deviation:	0.68646	1.8163	0.76889	2.2920
Maximum:	13.900	21.200	6.3000	9.0000
Minimum:	-5.8000	-9.9000	-5.2000	-13.500

Number of data:	38900.	38900.	47750.	47750.
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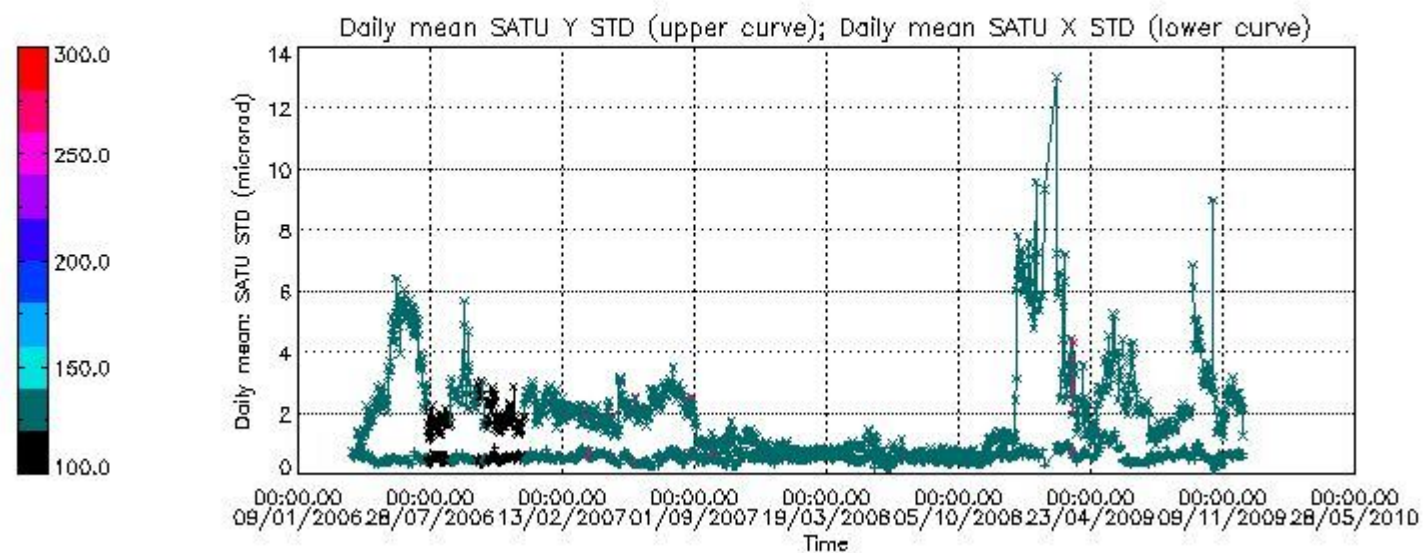
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

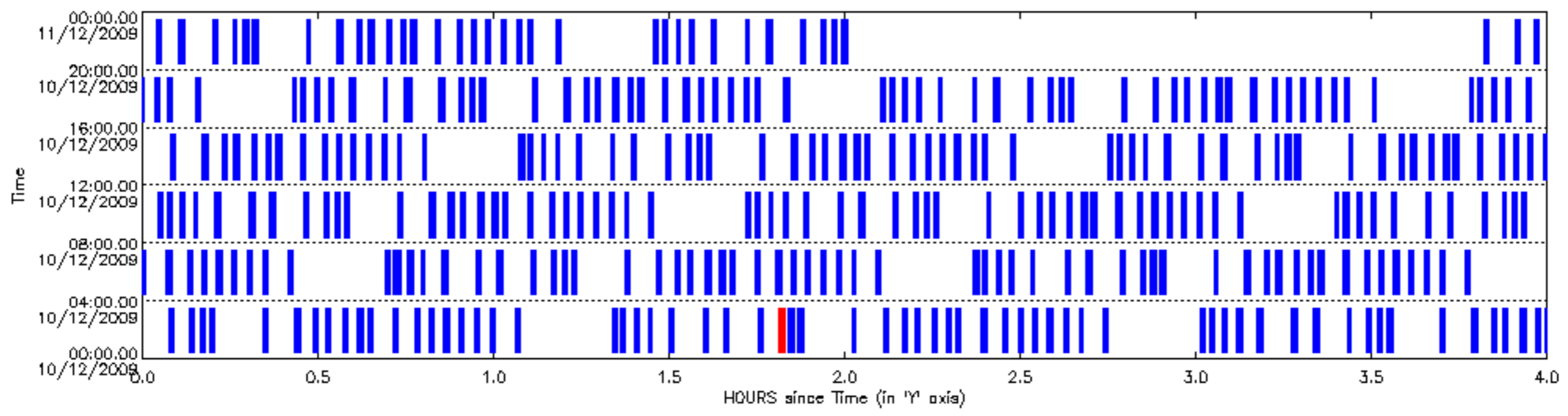
Lower curve: STD of SATU X axis

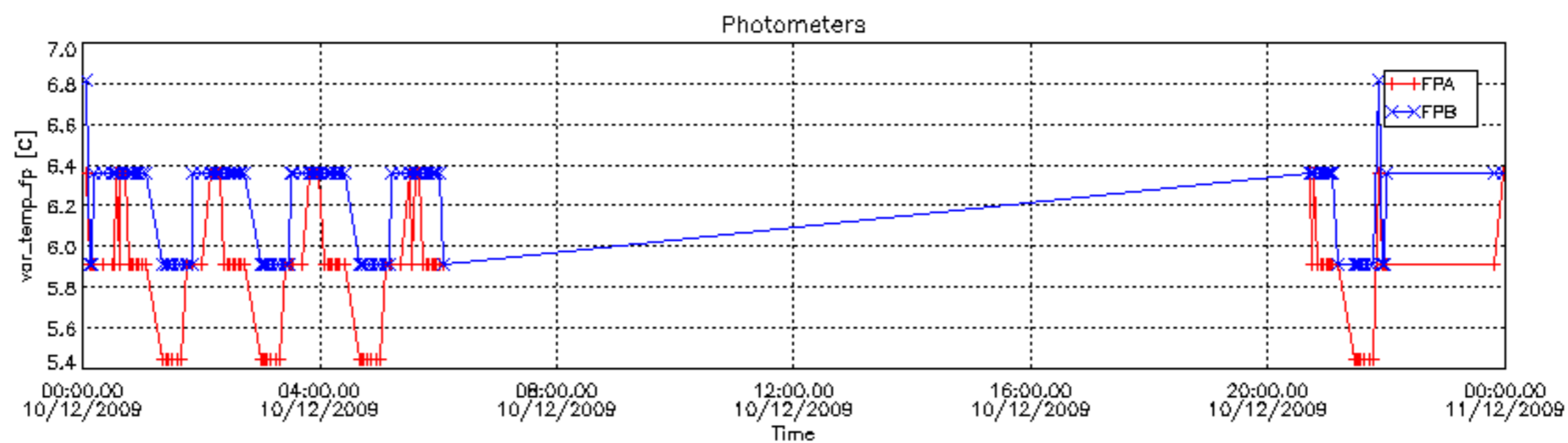
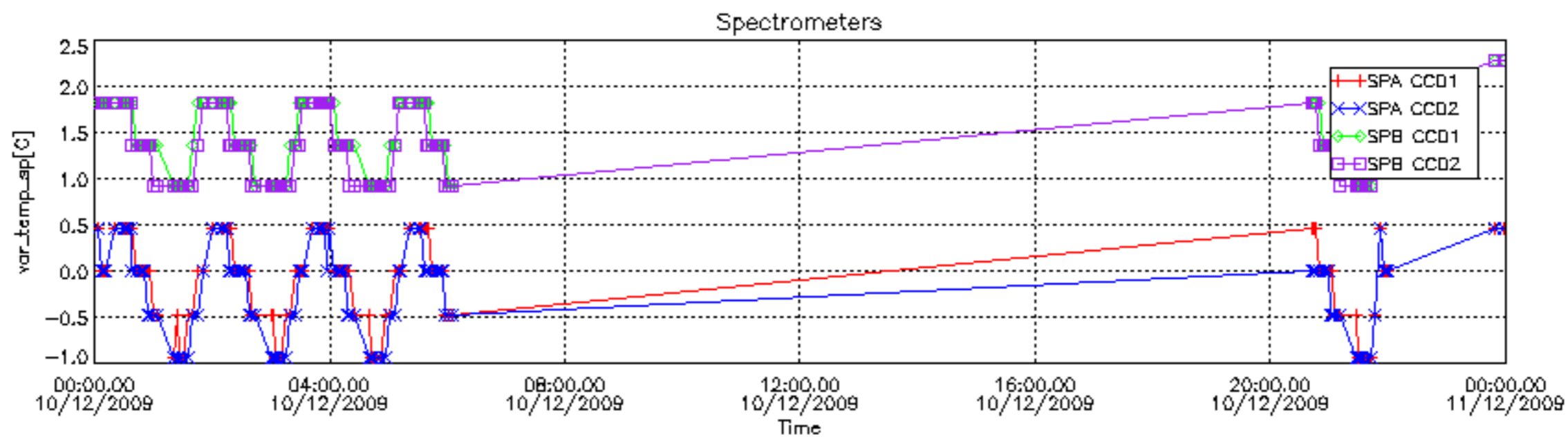


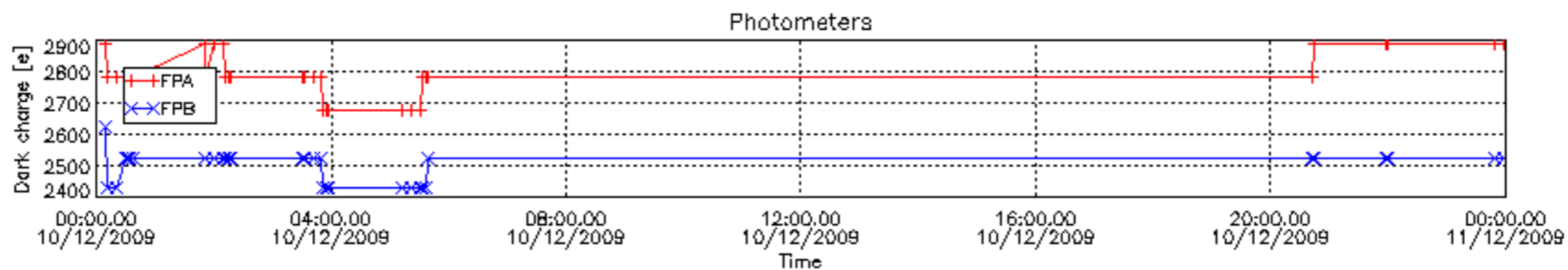
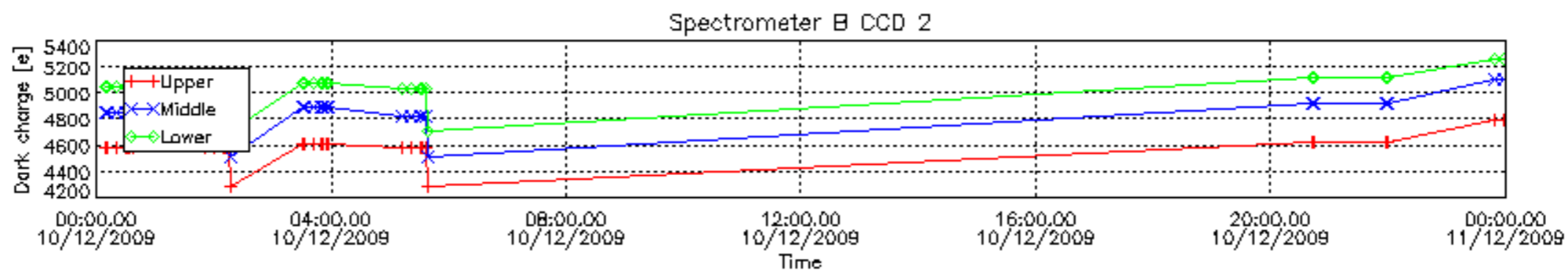
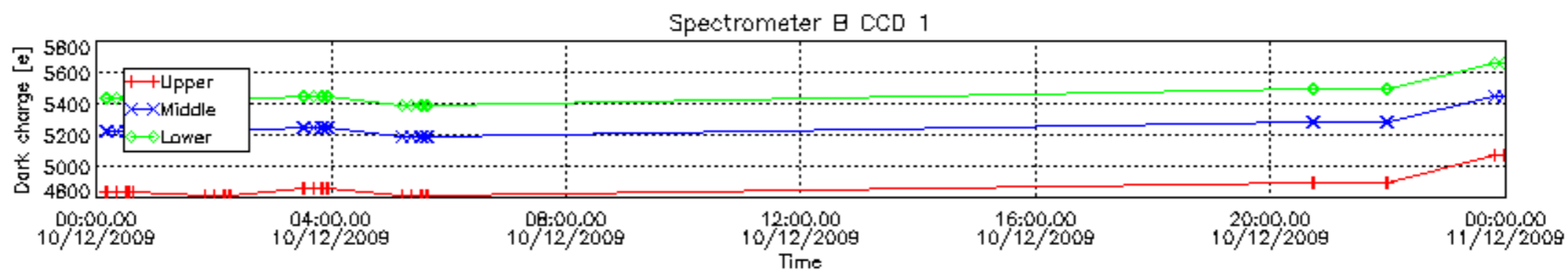
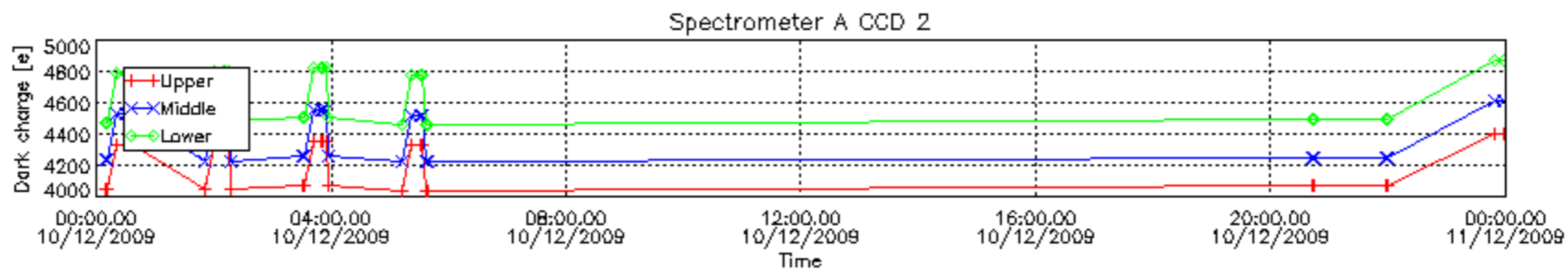
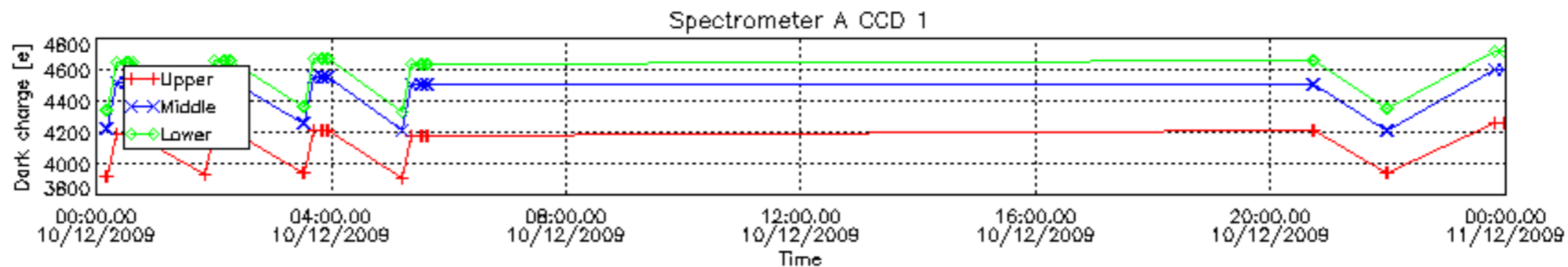
8. Auxiliary Data Files used for the production reported in section 2.4

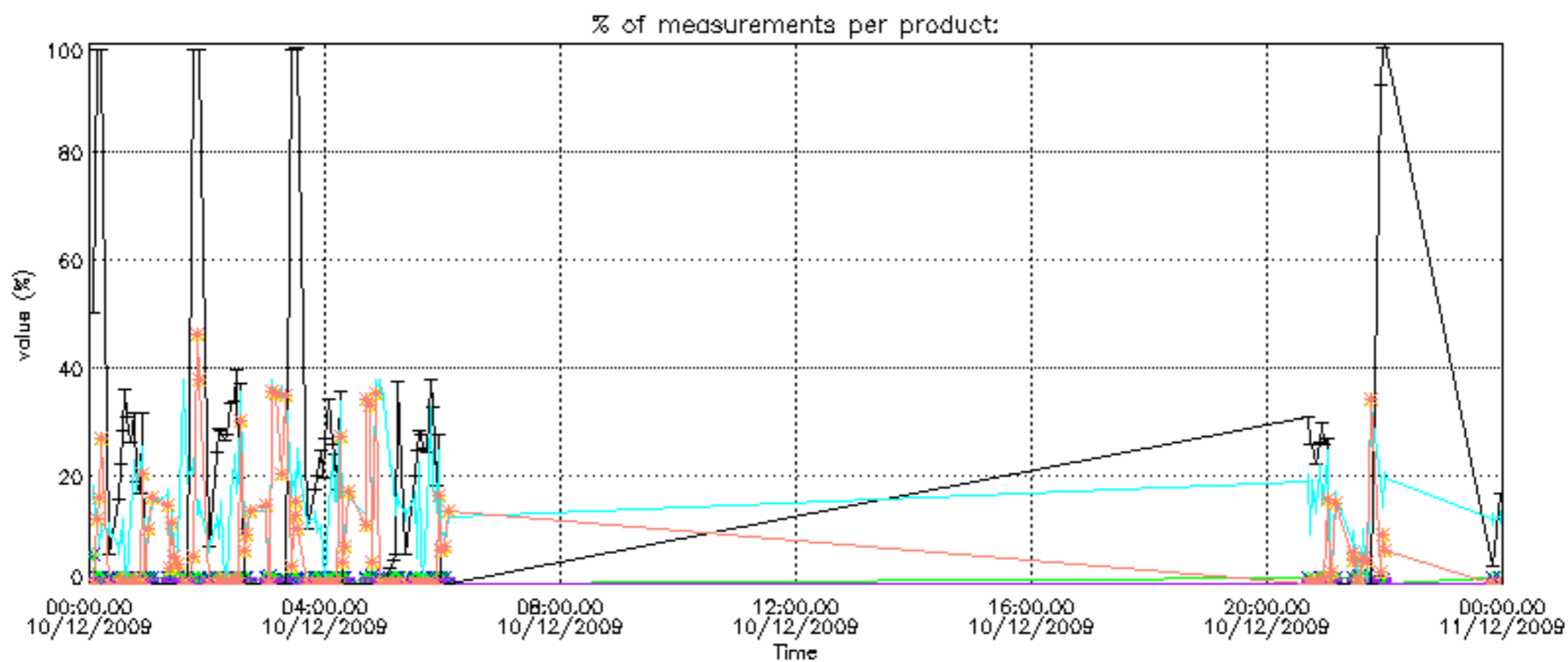
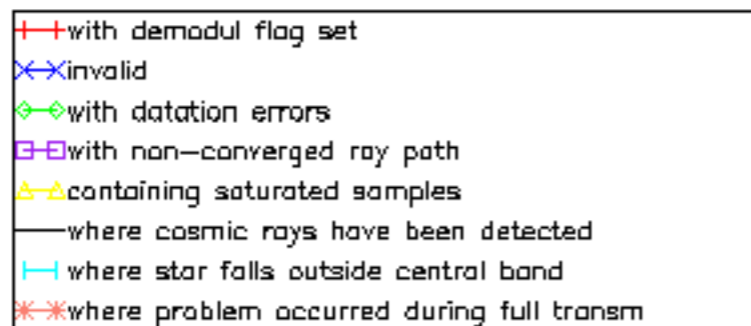
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-DEC-2009 00:04:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091207_160509_20091205_000000_20500101_000000	1	10-DEC-2009 00:04:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	10-DEC-2009 00:04:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-DEC-2009 00:04:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	10-DEC-2009 00:04:33
ECMWF_FILE	AUX_ECF_AXNECM20091209_064112_20091209_210000_20091210_090000	1	10-DEC-2009 00:04:33
ECMWF_FILE	AUX_ECF_AXNECM20091209_184111_20091210_030000_20091210_150000	43	10-DEC-2009 03:00:45
ECMWF_FILE	AUX_ECF_AXNECM20091210_064110_20091210_150000_20091211_030000	93	10-DEC-2009 20:41:34
ECMWF_FILE	AUX_ECF_AXNECM20091210_064111_20091210_210000_20091211_090000	111	10-DEC-2009 21:52:28
OPTIONAL_ECMWF_FILE	MISSING	1	10-DEC-2009 00:04:33
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091209_130111_20091209_073120_20091218_193247	1	10-DEC-2009 00:04:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091210_014024_000041442085_00031_40666_9328.N1	26	10-DEC-2009 01:45:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091210_025447_000057382085_00032_40667_9329.N1	43	10-DEC-2009 03:00:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091210_043544_000057382085_00033_40668_9330.N1	68	10-DEC-2009 04:41:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091210_203725_000041442085_00043_40678_9331.N1	93	10-DEC-2009 20:41:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091210_215148_000057382085_00043_40678_9332.N1	111	10-DEC-2009 21:52:28
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091210_130111_20091209_191531_20091219_204146	115	10-DEC-2009 23:49:08

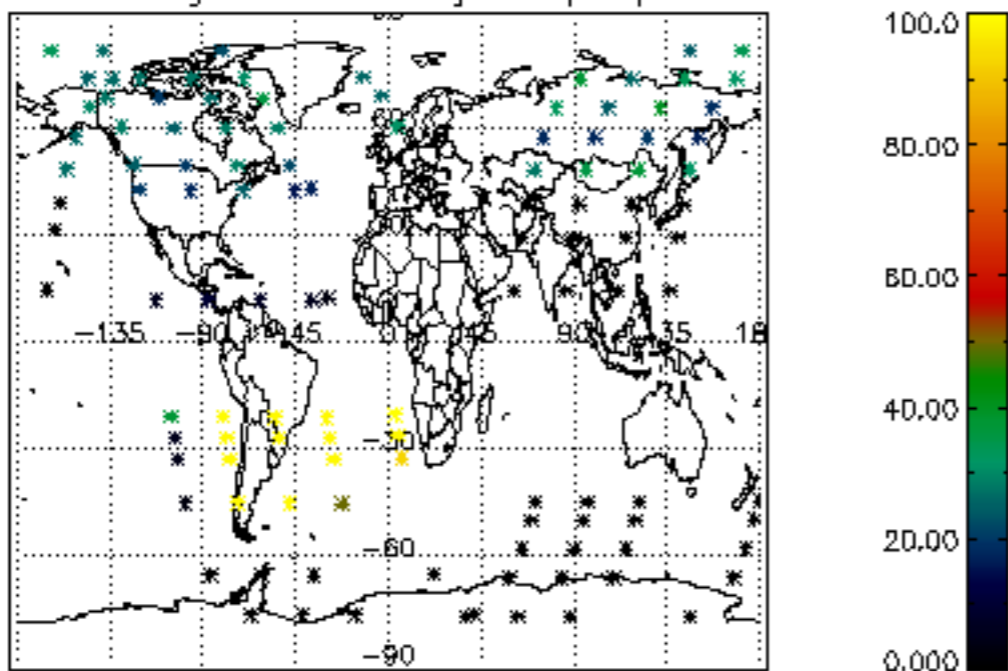




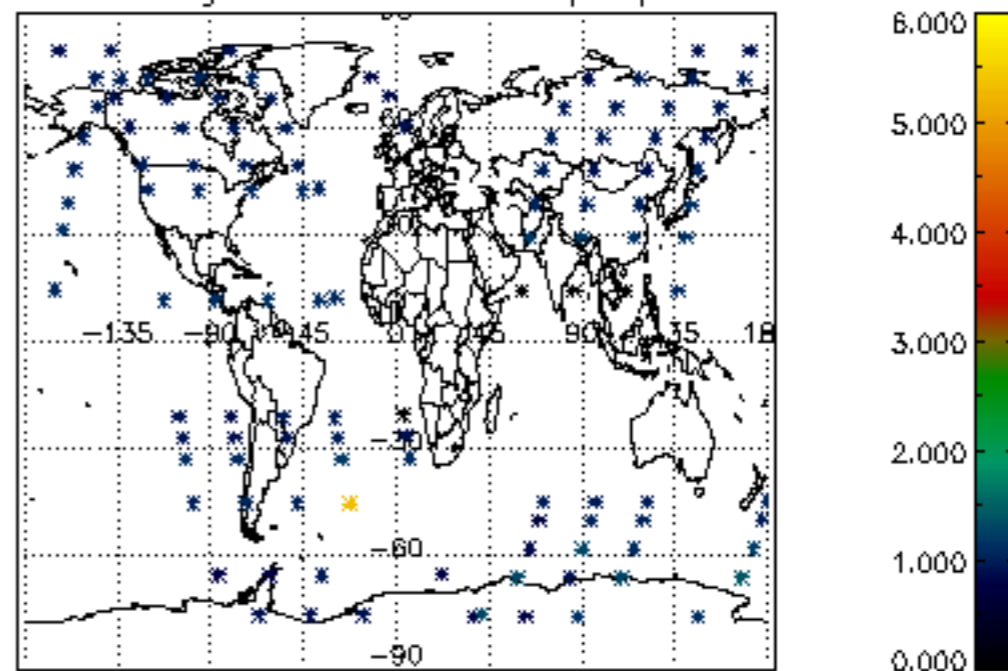




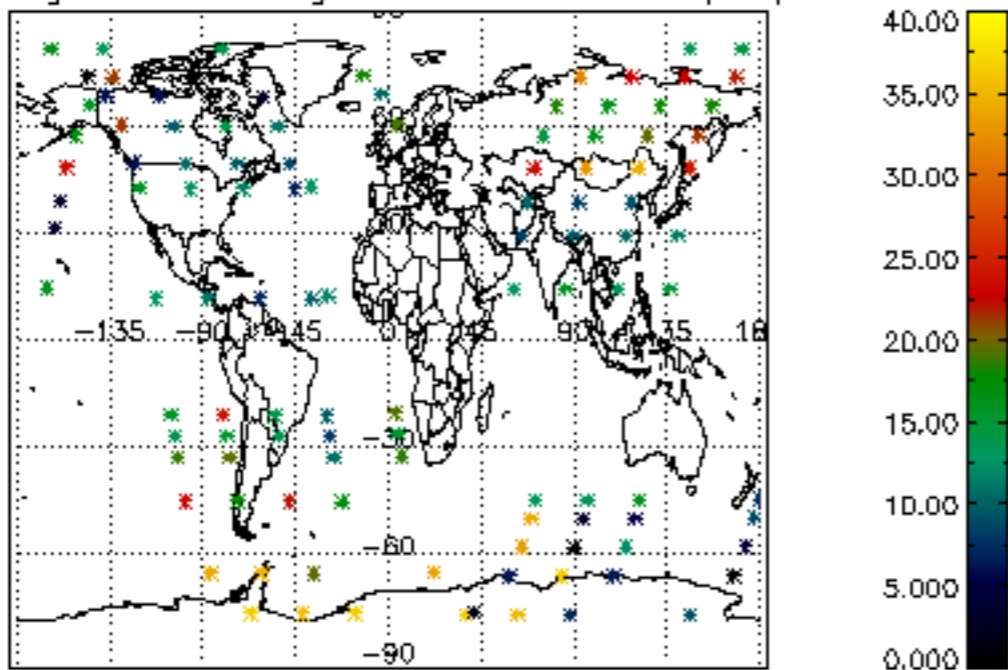
Percentage of cosmic ray hits per profile



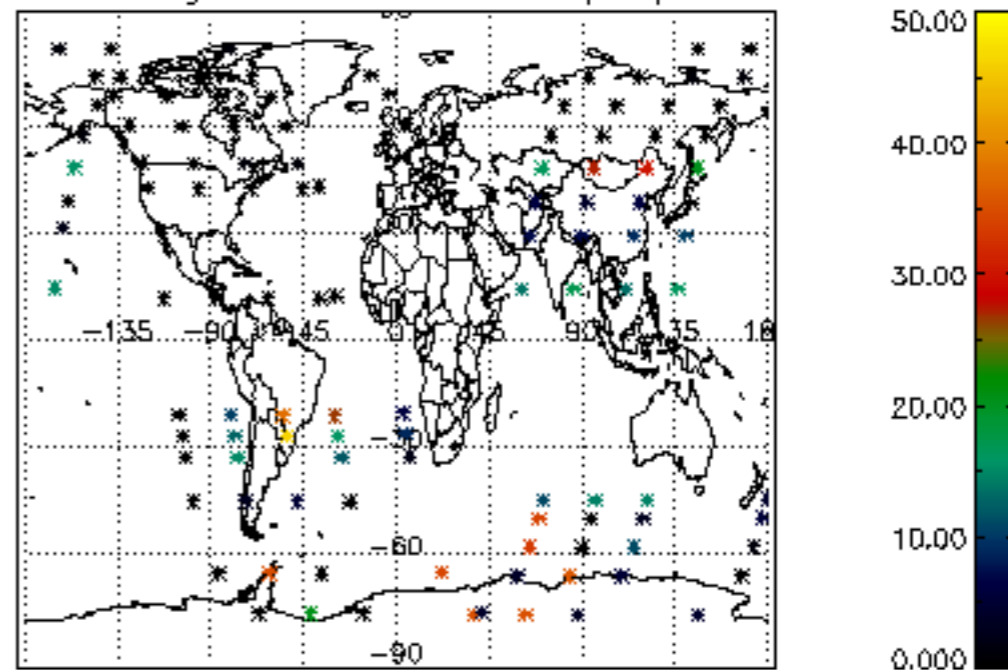
Percentage of datation errors per profile



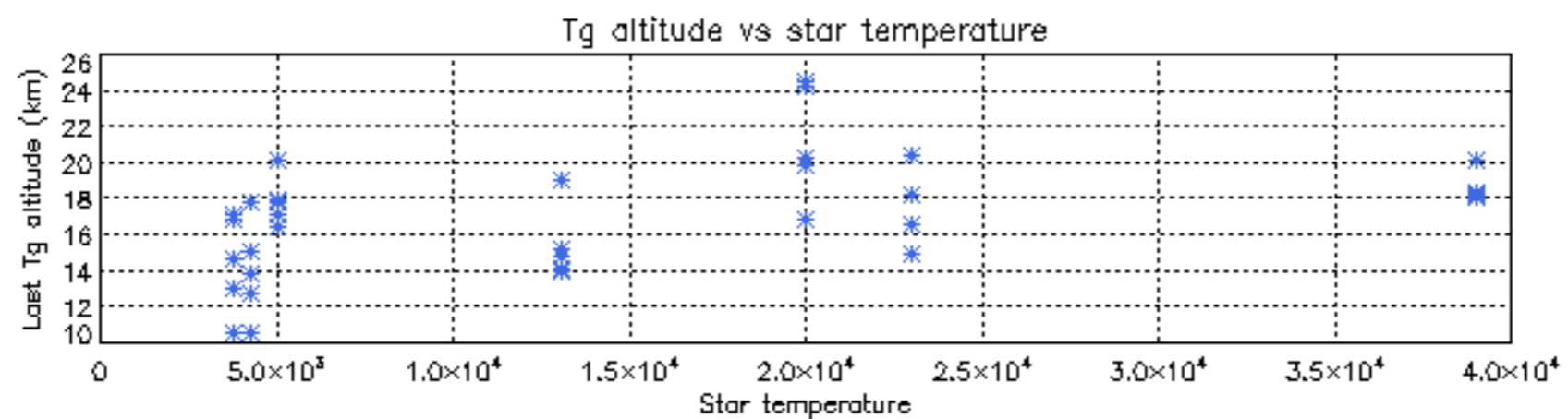
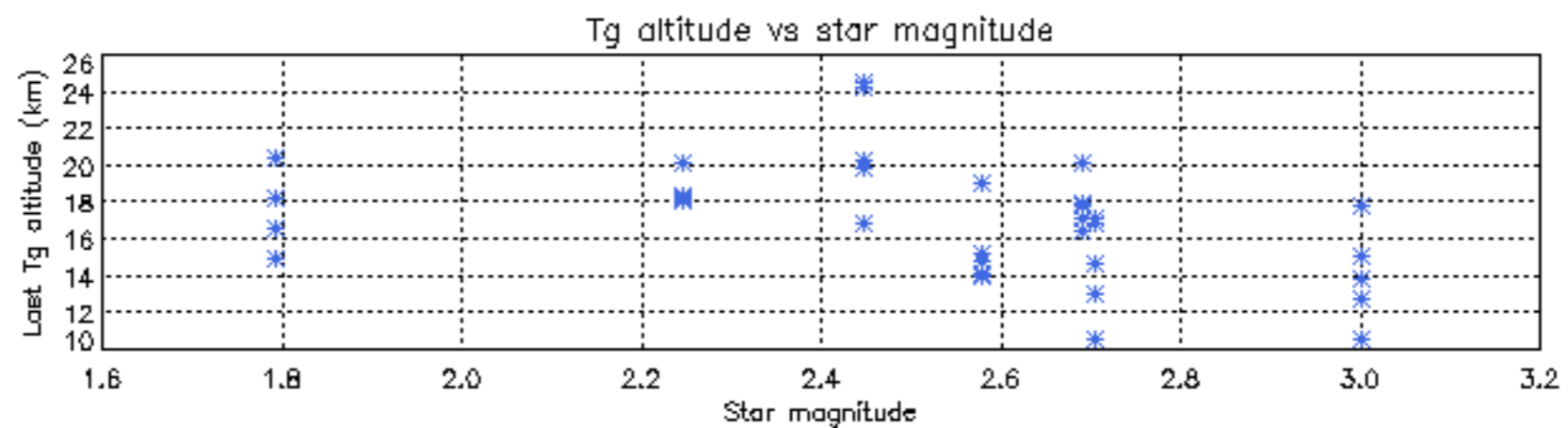
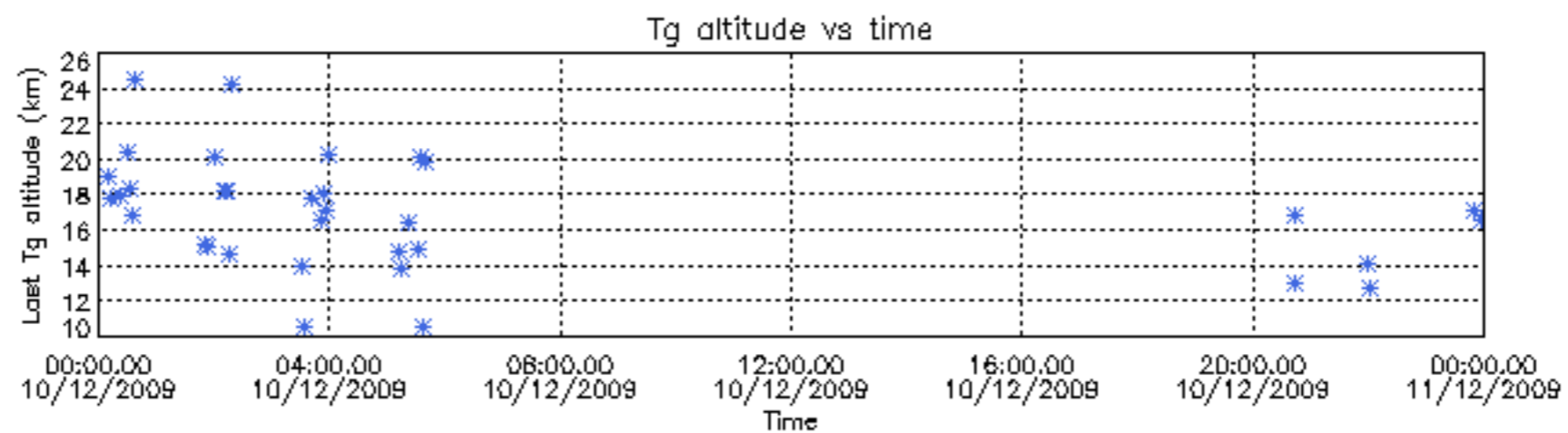
Percentage of star falling outside central band per profile



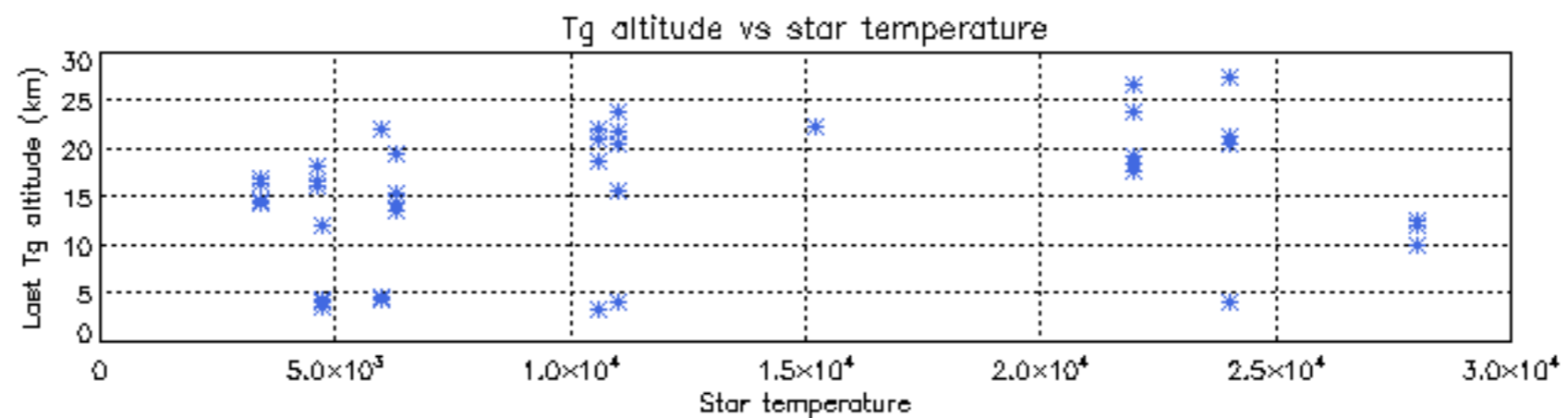
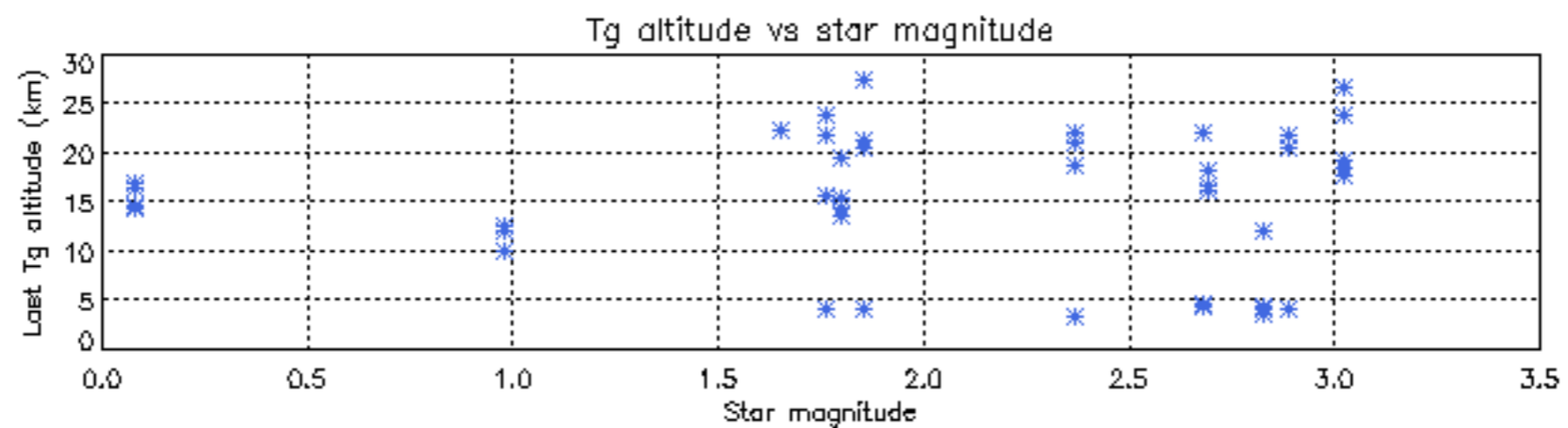
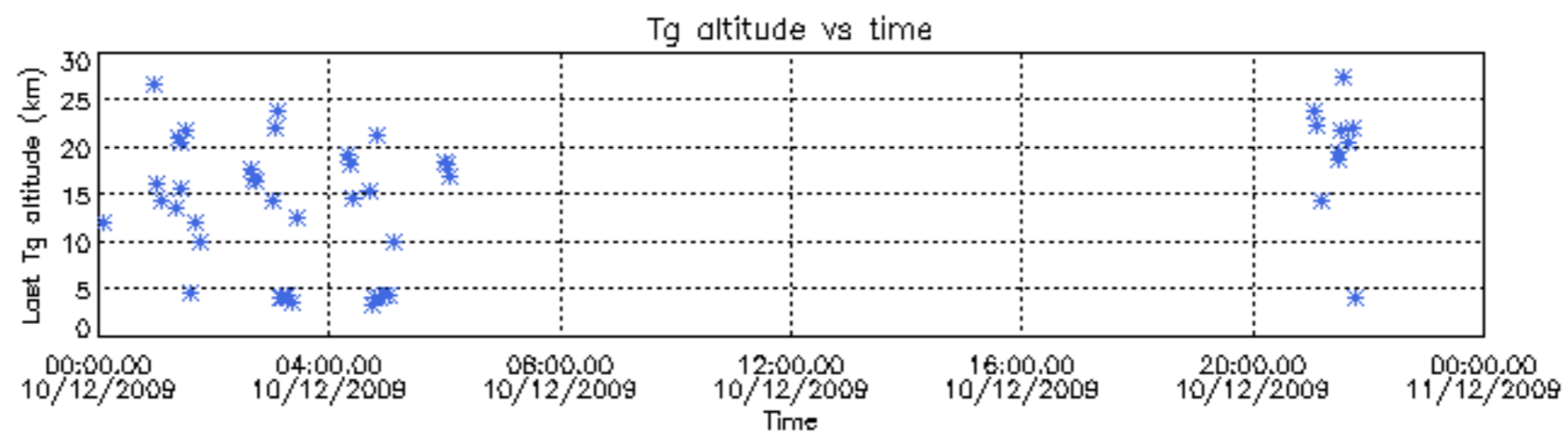
Percentage of saturation errors per profile



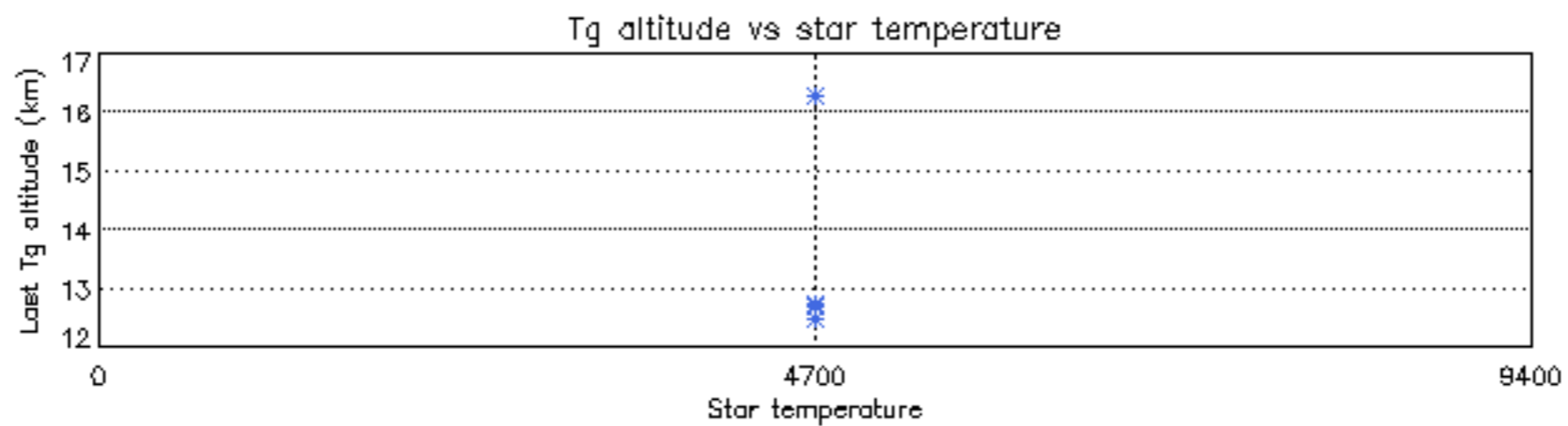
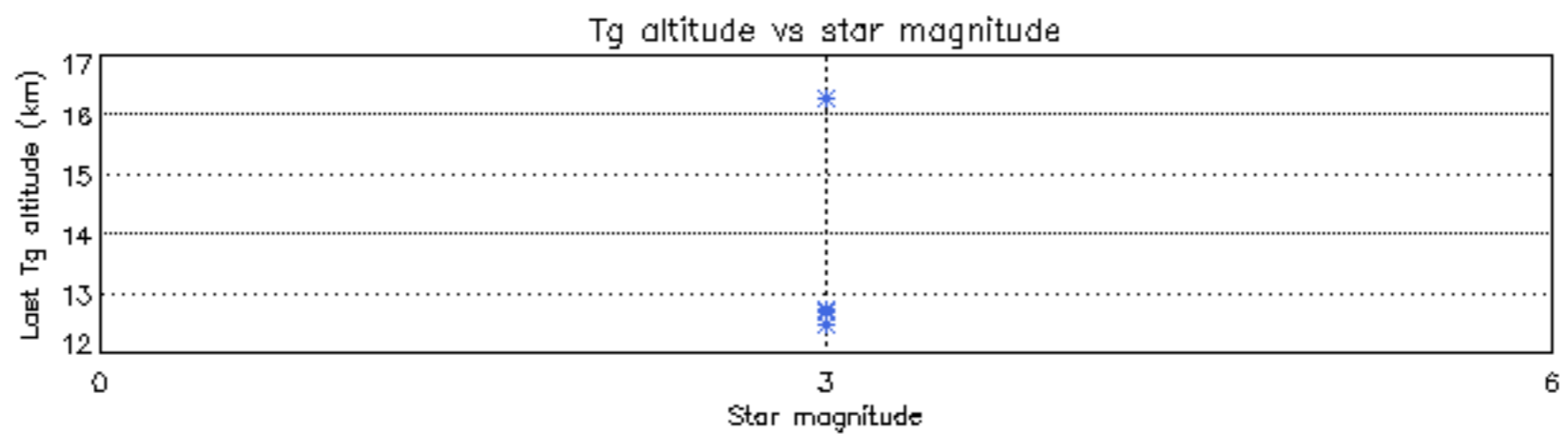
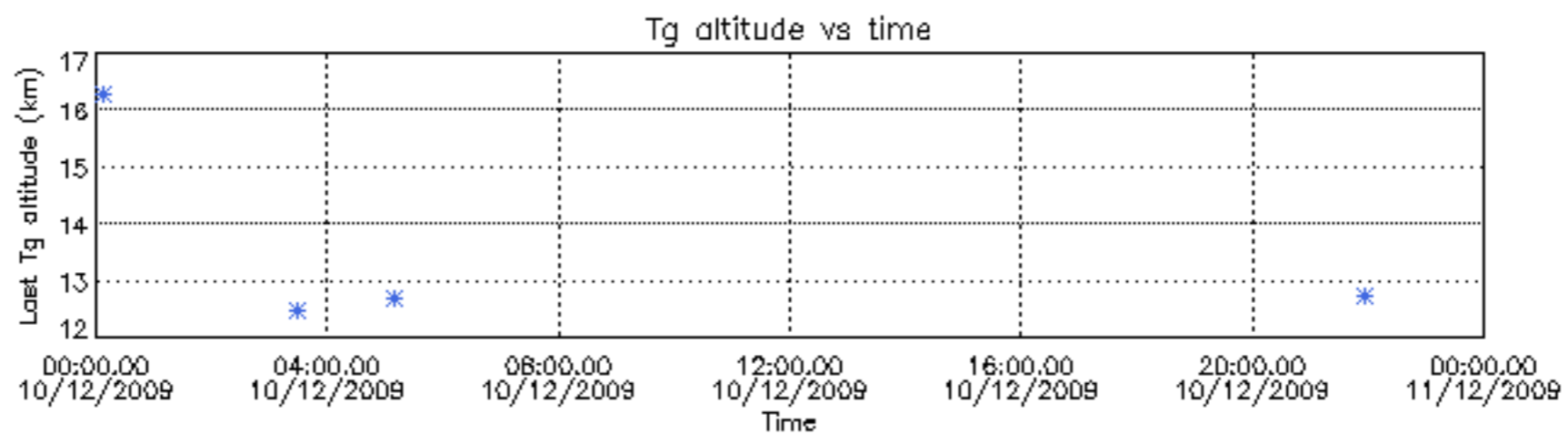
Tangent altitude at which the star is lost

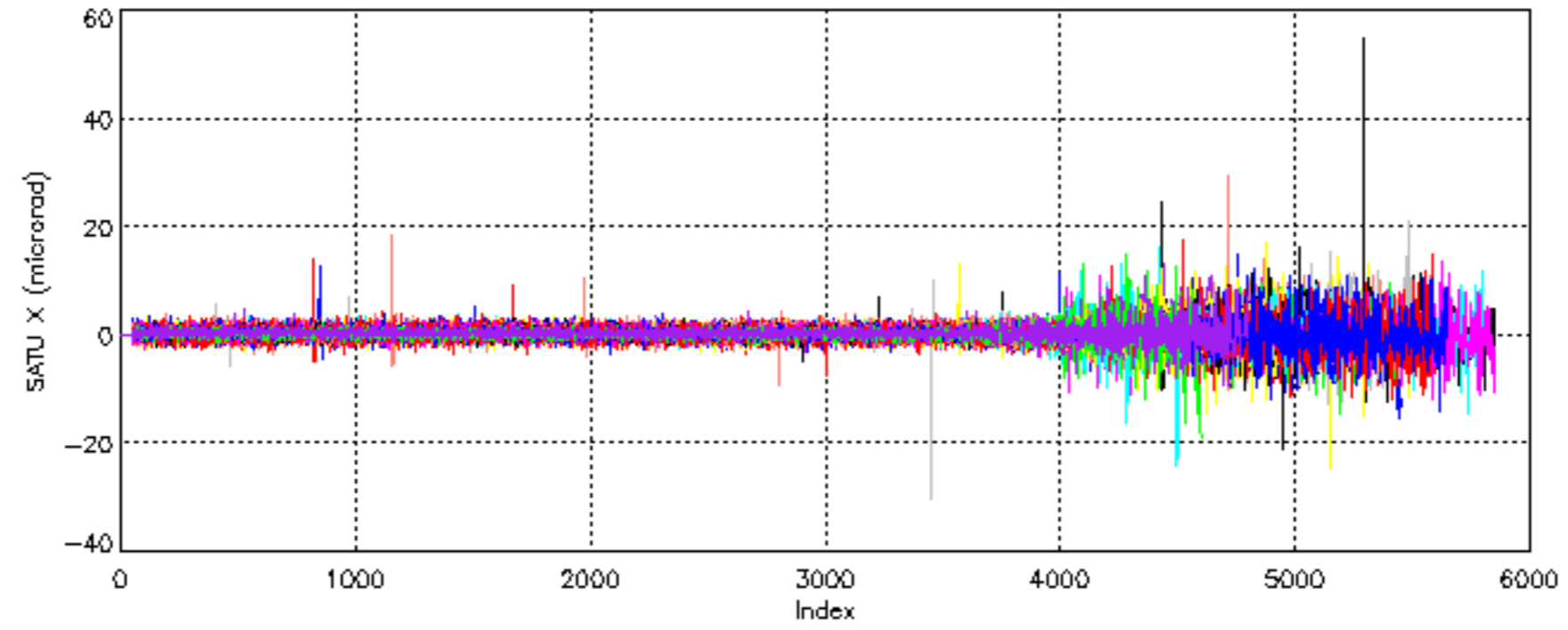


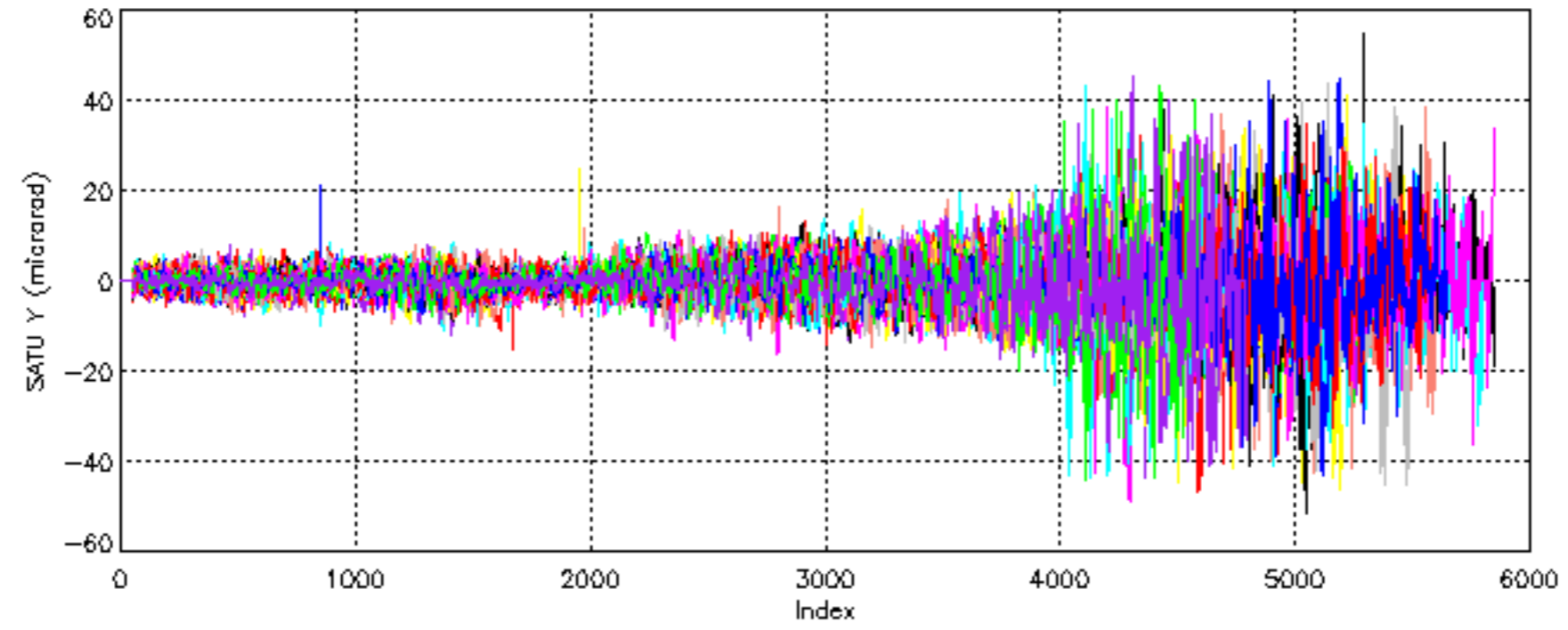
Tangent altitude at which the star is lost

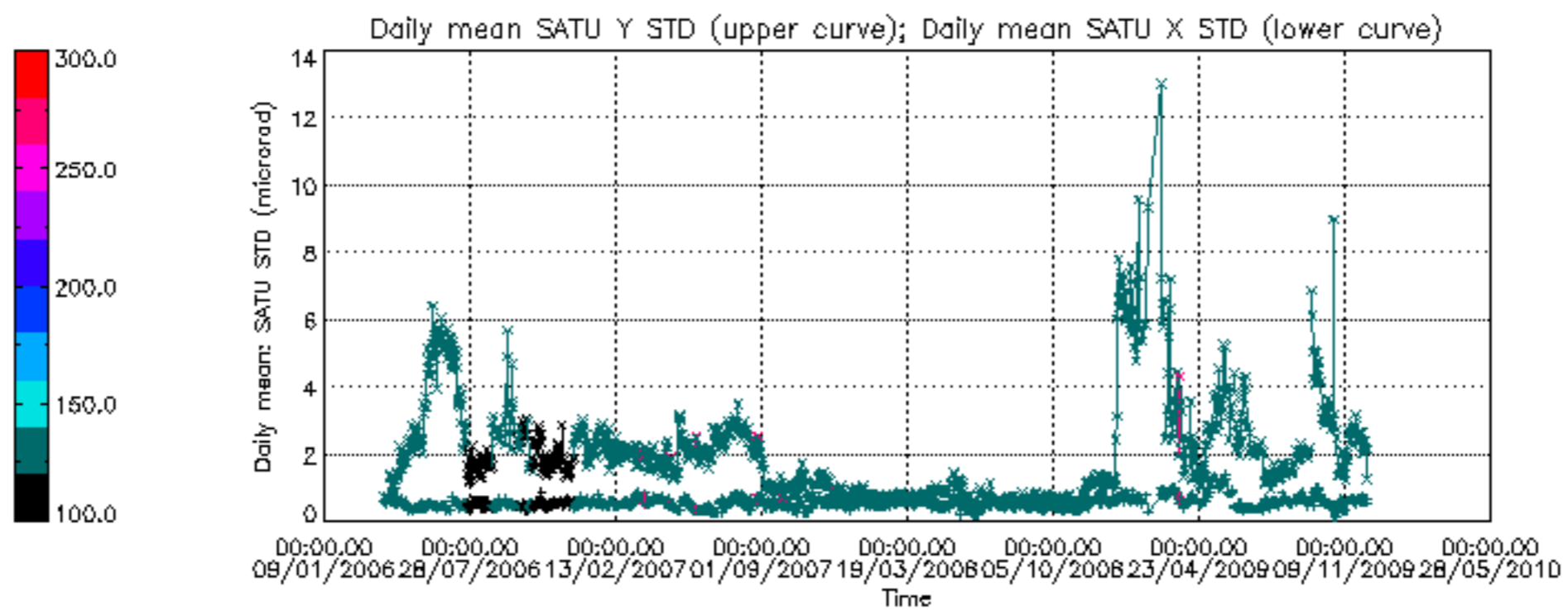


Tangent altitude at which the star is lost









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20; 2461.9; 04-DEC-2009 04:08:03; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40581
21; 2606.0; 04-DEC-2009 04:10:27; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40581
22; 2820.3; 04-DEC-2009 04:14:02; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40581
23; 2916.9; 04-DEC-2009 04:15:38; Bright; 48.5; 42; 34Bet Aur ; 1.90; 10200;occ; 97; 0;40581

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1; -2230.9; 04-DEC-2009 04:30:26; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;40581
2; -2136.1; 04-DEC-2009 04:32:01; Bright; 47.0; 82; 48Bet UMA ; 2.37; 10600;occ; 94; 0;40581
3; -2025.7; 04-DEC-2009 04:33:52; Bright; 42.0; 32; 77Eps UMA ; 1.76; 11000;occ; 84; 0;40581
4; -1685.1; 04-DEC-2009 04:39:32; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40581
5; -1157.9; 04-DEC-2009 04:48:19; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;40581
6; -887.5; 04-DEC-2009 04:52:50; Bright; 48.0; 121; 29Gam Vir ; 2.74; 7200;occ; 96; 0;40581
7; -537.1; 04-DEC-2009 04:58:40; Dark ; 51.5; 100; 4Gam Crv ; 2.58; 13100;occ; 103; 0;40581
8; -441.3; 04-DEC-2009 05:00:16; Dark ; 53.0; 171; 2Eps Crv ; 3.00; 4250;occ; 106; 0;40581
9; 124.5; 04-DEC-2009 05:09:42; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40581
10; 445.2; 04-DEC-2009 05:15:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40581
11; 645.1; 04-DEC-2009 05:18:22; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40581
12; 830.3; 04-DEC-2009 05:21:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;40581
13; 956.4; 04-DEC-2009 05:23:34; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;40581
14; 1177.4; 04-DEC-2009 05:27:15; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;40581
15; 1542.1; 04-DEC-2009 05:33:19; Dark ; 49.5; 101; 11Alp Lep ; 2.58; 7000;occ; 99; 0;40581
16; 1749.6; 04-DEC-2009 05:36:47; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;40581
17; 1917.8; 04-DEC-2009 05:39:35; Dark ; 59.0; 30; 46Eps Ori ; 1.69; 30000;occ; 118; 0;40581
18; 2074.9; 04-DEC-2009 05:42:12; Dark ; 55.5; 27; 24Gam Ori ; 1.64; 26000;occ; 111; 0;40581
19; 2218.1; 04-DEC-2009 05:44:35; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;40581
20; 2322.7; 04-DEC-2009 05:46:20; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40581
21; 2462.0; 04-DEC-2009 05:48:39; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40581
22; 2605.8; 04-DEC-2009 05:51:03; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40581
23; 2819.5; 04-DEC-2009 05:54:37; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40581
24; 2916.0; 04-DEC-2009 05:56:13; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;40581

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3; 1543.3; 04-DEC-2009 20:38:44; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;40592
4; 1749.3; 04-DEC-2009 20:42:10; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;40592
5; 1915.1; 04-DEC-2009 20:44:56; Dark ; 59.5; 30; 46Eps Ori ; 1.69; 30000;occ; 119; 0;40592

6; 2070.9; 04-DEC-2009 20:47:32; Dark ; 57.5; 27; 24Gam Ori ; 1.64; 26000;occ; 115; 0;40592
7; 2215.4; 04-DEC-2009 20:49:56; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40592
8; 2460.5; 04-DEC-2009 20:54:01; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40592
9; 2554.9; 04-DEC-2009 20:55:36; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;40592
10; 2814.4; 04-DEC-2009 20:59:55; Bright; 45.5; 6; 13Alp Aur ; 0.08; 3400;occ; 91; 0;40592
11; 2908.2; 04-DEC-2009 21:01:29; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;40592
12; 3801.0; 04-DEC-2009 21:16:22; Bright; 47.0; 36; 50Alp UMA ; 1.80; 6300;occ; 94; 0;40592
13; 3895.5; 04-DEC-2009 21:17:56; Bright; 50.5; 82; 48Bet UMA ; 2.37; 10600;occ; 101; 0;40592
14; 4009.2; 04-DEC-2009 21:19:50; Bright; 43.0; 32; 77Eps UMA ; 1.76; 11000;occ; 86; 0;40592
15; 4140.7; 04-DEC-2009 21:22:01; Bright; 39.0; 39; 85Eta UMA ; 1.85; 24000;occ; 78; 0;40592
16; 4351.0; 04-DEC-2009 21:25:32; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;40592
17; 4882.5; 04-DEC-2009 21:34:23; Bright; 61.0; 138; 47Eps Vir ; 2.83; 4700;occ; 122; 0;40592
18; 5155.1; 04-DEC-2009 21:38:56; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;40592

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1; -528.1; 04-DEC-2009 21:44:49; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;40592
2; -431.9; 04-DEC-2009 21:46:25; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40592
3; 132.6; 04-DEC-2009 21:55:49; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40593
4; 453.5; 04-DEC-2009 22:01:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40593
5; 653.1; 04-DEC-2009 22:04:30; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40593
6; 835.0; 04-DEC-2009 22:07:32; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;40593
7; 963.8; 04-DEC-2009 22:09:40; Dark ; 62.5; 117; Pi Pup ; 2.71; 3800;occ; 125; 0;40593
8; 1183.6; 04-DEC-2009 22:13:20; Dark ; 61.5; 23; 21Eps CMa ; 1.50; 26000;occ; 123; 0;40593
9; 1543.5; 04-DEC-2009 22:19:20; Dark ; 52.0; 101; 11Alp Lep ; 2.58; 7000;occ; 104; 0;40593
10; 1749.2; 04-DEC-2009 22:22:46; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;40593
11; 1914.8; 04-DEC-2009 22:25:31; Dark ; 58.5; 30; 46Eps Ori ; 1.69; 30000;occ; 117; 0;40593
12; 2070.4; 04-DEC-2009 22:28:07; Dark ; 57.0; 27; 24Gam Ori ; 1.64; 26000;occ; 114; 0;40593
13; 2215.2; 04-DEC-2009 22:30:32; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40593
14; 2460.4; 04-DEC-2009 22:34:37; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40593
15; 2554.3; 04-DEC-2009 22:36:11; Bright; 45.0; 114; 3Iot Aur ; 2.69; 4600;occ; 90; 0;40593
16; 2813.7; 04-DEC-2009 22:40:30; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;40593
17; 2907.5; 04-DEC-2009 22:42:04; Bright; 47.0; 42; 34Bet Aur ; 1.90; 10200;occ; 94; 0;40593
18; 3800.7; 04-DEC-2009 22:56:57; Bright; 46.0; 36; 50Alp UMA ; 1.80; 6300;occ; 92; 0;40593
19; 3895.2; 04-DEC-2009 22:58:32; Bright; 56.5; 82; 48Bet UMA ; 2.37; 10600;occ; 113; 0;40593
20; 4009.1; 04-DEC-2009 23:00:26; Bright; 40.0; 32; 77Eps UMA ; 1.76; 11000;occ; 80; 0;40593
21; 4140.9; 04-DEC-2009 23:02:37; Bright; 38.0; 39; 85Eta UMA ; 1.85; 24000;occ; 76; 0;40593
22; 4351.0; 04-DEC-2009 23:06:08; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;40593
23; 4882.8; 04-DEC-2009 23:14:59; Bright; 50.5; 138; 47Eps Vir ; 2.83; 4700;occ; 101; 0;40593
24; 5155.7; 04-DEC-2009 23:19:32; Bright; 47.5; 121; 29Gam Vir ; 2.74; 7200;occ; 95; 0;40593

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2; -431.1; 04-DEC-2009 23:27:01; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40593
3; 133.4; 04-DEC-2009 23:36:26; Dark ; 53.5; 113; Mu Vel ; 2.69; 5000;occ; 107; 0;40594
4; 454.3; 04-DEC-2009 23:41:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40594
5; 654.1; 04-DEC-2009 23:45:07; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40594
6; 835.6; 04-DEC-2009 23:48:08; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;40594
7; 964.5; 04-DEC-2009 23:50:17; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40594
8; 1184.0; 04-DEC-2009 23:53:56; Dark ; 64.5; 23; 21Eps CMa ; 1.50; 26000;occ; 129; 0;40594
9; 1543.7; 04-DEC-2009 23:59:56; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;40594
10; 1749.1; 05-DEC-2009 00:03:22; Dark ; 55.5; 7; 19Bet Ori ; 0.10; 14000;occ; 111; 0;40594
11; 1914.3; 05-DEC-2009 00:06:07; Dark ; 59.5; 30; 46Eps Ori ; 1.69; 30000;occ; 119; 0;40594
12; 2070.1; 05-DEC-2009 00:08:43; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;40594
13; 2214.9; 05-DEC-2009 00:11:07; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40594
14; 2460.1; 05-DEC-2009 00:15:13; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;40594
15; 2553.8; 05-DEC-2009 00:16:46; Bright; 45.5; 114; 3Iot Aur ; 2.69; 4600;occ; 91; 0;40594
16; 2813.1; 05-DEC-2009 00:21:06; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;40594
17; 2906.4; 05-DEC-2009 00:22:39; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;40594
18; 3800.3; 05-DEC-2009 00:37:33; Bright; 44.0; 36; 50Alp UMA ; 1.80; 6300;occ; 88; 0;40594
19; 3894.6; 05-DEC-2009 00:39:07; Bright; 47.0; 82; 48Bet UMA ; 2.37; 10600;occ; 94; 0;40594
20; 4008.8; 05-DEC-2009 00:41:01; Bright; 58.0; 32; 77Eps UMA ; 1.76; 11000;occ; 116; 0;40594
21; 4140.6; 05-DEC-2009 00:43:13; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;40594
22; 4351.3; 05-DEC-2009 00:46:44; Bright; 60.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 120; 0;40594
23; 4883.3; 05-DEC-2009 00:55:36; Bright; 61.0; 138; 47Eps Vir ; 2.83; 4700;occ; 122; 0;40594
24; 5156.5; 05-DEC-2009 01:00:09; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;40594

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3; 2074.2; 04-DEC-2009 07:22:48; Dark ; 58.5; 27; 24Gam Ori ; 1.64; 26000;occ; 117; 0;40584
4; 2217.8; 04-DEC-2009 07:25:11; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40584

5; 2322.7; 04-DEC-2009 07:26:56; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;40584
6; 2461.7; 04-DEC-2009 07:29:15; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40584
7; 2605.7; 04-DEC-2009 07:31:39; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40584
8; 2819.2; 04-DEC-2009 07:35:12; Bright; 45.5; 6; 13Alp Aur ; 0.08; 3400;occ; 91; 0;40584
9; 2915.1; 04-DEC-2009 07:36:48; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;40584
10; 3804.1; 04-DEC-2009 07:51:37; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40584
11; 3898.9; 04-DEC-2009 07:53:12; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;40584
12; 4010.1; 04-DEC-2009 07:55:03; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40584
13; 4140.5; 04-DEC-2009 07:57:14; Bright; 54.0; 39; 85Eta UMa ; 1.85; 24000;occ; 108; 0;40584
14; 4350.7; 04-DEC-2009 08:00:44; Bright; 60.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 120; 0;40584
15; 4879.1; 04-DEC-2009 08:09:32; Bright; 60.0; 138; 47Eps Vir ; 2.83; 4700;occ; 120; 0;40584
16; 5149.9; 04-DEC-2009 08:14:03; Bright; 48.0; 121; 29Gam Vir ; 2.74; 7200;occ; 96; 0;40584
17; 5500.6; 04-DEC-2009 08:19:54; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40584
18; 5596.5; 04-DEC-2009 08:21:30; Dark ; 53.0; 171; 2Eps Crv ; 3.00; 4250;occ; 106; 0;40584
19; 6162.1; 04-DEC-2009 08:30:55; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40584
20; 6482.8; 04-DEC-2009 08:36:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40584
21; 6682.6; 04-DEC-2009 08:39:36; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40584
22; 6867.2; 04-DEC-2009 08:42:41; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40584
23; 6993.7; 04-DEC-2009 08:44:47; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;40584
24; 7214.4; 04-DEC-2009 08:48:28; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40584
25; 7578.5; 04-DEC-2009 08:54:32; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;40584
26; 7785.3; 04-DEC-2009 08:57:59; Dark ; 26.0; 7; 19Bet Ori ; 0.10; 14000;occ; 52; 0;40584

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3; 2073.9; 04-DEC-2009 09:03:23; Dark ; 58.5; 27; 24Gam Ori ; 1.64; 26000;occ; 117; 0;40585
4; 2217.6; 04-DEC-2009 09:05:47; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40585
5; 2322.6; 04-DEC-2009 09:07:32; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40585
6; 2461.5; 04-DEC-2009 09:09:51; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40585
7; 2605.4; 04-DEC-2009 09:12:15; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40585
8; 2818.5; 04-DEC-2009 09:15:48; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;40585
9; 2914.3; 04-DEC-2009 09:17:24; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;40585
10; 3803.9; 04-DEC-2009 09:32:13; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40585
11; 3898.6; 04-DEC-2009 09:33:48; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40585
12; 4010.0; 04-DEC-2009 09:35:39; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40585
13; 4140.4; 04-DEC-2009 09:37:50; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;40585
14; 4350.5; 04-DEC-2009 09:41:20; Bright; 60.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 120; 0;40585
15; 4879.5; 04-DEC-2009 09:50:09; Bright; 41.0; 138; 47Eps Vir ; 2.83; 4700;occ; 82; 0;40585
16; 5150.4; 04-DEC-2009 09:54:40; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;40585
17; 5501.5; 04-DEC-2009 10:00:31; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;40585
18; 5597.6; 04-DEC-2009 10:02:07; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40585
19; 6162.9; 04-DEC-2009 10:11:32; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40585
20; 6483.6; 04-DEC-2009 10:16:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40585
21; 6683.4; 04-DEC-2009 10:20:13; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40585
22; 6867.5; 04-DEC-2009 10:23:17; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40585
23; 6994.3; 04-DEC-2009 10:25:24; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;40585
24; 7215.1; 04-DEC-2009 10:29:04; Dark ; 61.0; 23; 21Eps CMa ; 1.50; 26000;occ; 122; 0;40585
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3; 1916.8; 04-DEC-2009 10:41:22; Dark ; 55.0; 30; 46Eps Ori ; 1.69; 30000;occ; 110; 0;40586
4; 2073.5; 04-DEC-2009 10:43:59; Dark ; 58.0; 27; 24Gam Ori ; 1.64; 26000;occ; 116; 0;40586
5; 2217.2; 04-DEC-2009 10:46:22; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40586
6; 2322.4; 04-DEC-2009 10:48:07; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40586
7; 2461.2; 04-DEC-2009 10:50:26; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40586
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9; 2817.8; 04-DEC-2009 10:56:23; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;40586
10; 2913.3; 04-DEC-2009 10:57:58; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40586
11; 3803.4; 04-DEC-2009 11:12:49; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40586
12; 3898.0; 04-DEC-2009 11:14:23; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;40586
13; 4009.7; 04-DEC-2009 11:16:15; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;40586
14; 4140.6; 04-DEC-2009 11:18:26; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;40586
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21; 6490.9; 11-DEC-2009 08:16:17; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40684
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24; 6913.2; 11-DEC-2009 08:23:19; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40684
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6; 2591.4; 11-DEC-2009 08:51:53; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40685
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9; 3995.8; 11-DEC-2009 09:15:18; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40685
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13; 4928.1; 11-DEC-2009 09:30:50; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40685
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19; 6030.3; 11-DEC-2009 09:49:12; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40685
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25; 7064.5; 11-DEC-2009 10:06:26; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40685
26; 7269.8; 11-DEC-2009 10:09:52; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40685
27; 7563.8; 11-DEC-2009 10:14:46; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40685

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6; 2355.8; 11-DEC-2009 10:28:33; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;40686
7; 2477.3; 11-DEC-2009 10:30:35; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40686
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12; 4140.3; 11-DEC-2009 10:58:18; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40686
13; 4331.5; 11-DEC-2009 11:01:29; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40686
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19; 5701.3; 11-DEC-2009 11:24:19; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40686
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29; 7563.9; 11-DEC-2009 11:55:22; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40686

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11; 3995.2; 11-DEC-2009 12:36:29; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40687
12; 4140.1; 11-DEC-2009 12:38:54; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;40687
13; 4331.7; 11-DEC-2009 12:42:05; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40687
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18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687
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22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687
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27; 7066.0; 11-DEC-2009 13:27:40; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40687
28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687
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4; 2039.8; 11-DEC-2009 13:44:29; Dark ; 48.5; 27; 24Gam Ori ; 1.64; 26000;occ; 97; 0;40688
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6; 2355.0; 11-DEC-2009 13:49:44; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40688
7; 2476.3; 11-DEC-2009 13:51:46; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40688
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12; 4140.3; 11-DEC-2009 14:19:30; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40688
13; 4332.0; 11-DEC-2009 14:22:41; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40688
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15; 4929.8; 11-DEC-2009 14:32:39; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40688
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17; 5492.8; 11-DEC-2009 14:42:02; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40688
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19; 5703.8; 11-DEC-2009 14:45:33; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;40688
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22; 6249.9; 11-DEC-2009 14:54:39; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40688
23; 6493.4; 11-DEC-2009 14:58:43; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40688
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27; 7066.6; 11-DEC-2009 15:08:16; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40688
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22; 6250.9; 11-DEC-2009 16:35:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40689
23; 6494.1; 11-DEC-2009 16:39:19; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40689
24; 6567.6; 11-DEC-2009 16:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40689
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27; 7067.3; 11-DEC-2009 16:48:53; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40689
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 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708
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 3;-1898.7; 16-DEC-2009 06:39:35; Bright; 46.0; 39; 85Eta UMa ; 1.85; 24000;occ; 92; 0;40755
 4;-1697.3; 16-DEC-2009 06:42:56; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40755
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 6;-1304.5; 16-DEC-2009 06:49:29; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;40755
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13; 41.5; 16-DEC-2009 07:11:55; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40756
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16; 582.0; 16-DEC-2009 07:20:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40756
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18; 907.4; 16-DEC-2009 07:26:21; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40756
19; 1070.4; 16-DEC-2009 07:29:04; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40756
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21; 1265.5; 16-DEC-2009 07:32:19; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40756
22; 1538.1; 16-DEC-2009 07:36:52; Dark ; 48.0; 47; 2Bet CMa ; 1.98; 28000;occ; 96; 0;40756

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27; 6945.6; 16-DEC-2009 12:28:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40758
28; 7107.8; 16-DEC-2009 12:30:53; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40758
29; 7252.6; 16-DEC-2009 12:33:18; Dark ; 30.0; 88; 31Eta CMa ; 2.45; 20000;occ; 60; 0;40758
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31; 7574.3; 16-DEC-2009 12:38:40; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;40758

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9; 2791.0; 16-DEC-2009 12:59:32; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40759
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23; 6312.7; 16-DEC-2009 13:58:14; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40759
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27; 6946.4; 16-DEC-2009 14:08:48; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40759
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 26; 6539.0; 16-DEC-2009 17:23:12; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;40761
 27; 6622.5; 16-DEC-2009 17:24:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40761
 28; 6819.9; 16-DEC-2009 17:27:53; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40761
 29; 6948.0; 16-DEC-2009 17:30:01; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40761
 30; 7109.8; 16-DEC-2009 17:32:43; Dark ; 39.0; 117; Pi Pup ; 2.71; 3800;occ; 78; 0;40761

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 5; 1750.3; 16-DEC-2009 17:43:59; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40762
 6; 1884.2; 16-DEC-2009 17:46:13; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40762
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 19; 5334.7; 16-DEC-2009 18:43:44; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40762
 20; 5545.0; 16-DEC-2009 18:47:14; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40762
 21; 5698.5; 16-DEC-2009 18:49:48; Dark ; 57.5; 106; 9Bet Crv ; 2.65; 5600;occ; 115; 0;40762
 22; 5797.0; 16-DEC-2009 18:51:26; Dark ; 36.0; 171; 2Eps Crv ; 3.00; 4250;occ; 72; 0;40762
 23; 5983.6; 16-DEC-2009 18:54:33; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40762
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 29; 6948.7; 16-DEC-2009 19:10:38; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40762

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23; 4739.6; 18-DEC-2009 00:44:36; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;40780
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2; -2057.2; 17-DEC-2009 06:05:19; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40769
3; -1899.5; 17-DEC-2009 06:07:57; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;40769
4; -1696.1; 17-DEC-2009 06:11:21; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40769
5; -1501.9; 17-DEC-2009 06:14:35; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;40769
6; -1299.7; 17-DEC-2009 06:17:57; Bright; 46.0; 111; 8Eta Boo ; 2.68; 6000;occ; 92; 0;40769
7; -695.9; 17-DEC-2009 06:28:01; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;40769
8; -407.2; 17-DEC-2009 06:32:50; Dark ; 44.0; 163; 7Del Crv ; 2.94; 11000;occ; 88; 0;40769
9; -329.7; 17-DEC-2009 06:34:07; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40769
10; -47.8; 17-DEC-2009 06:38:49; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40769
11; 51.3; 17-DEC-2009 06:40:28; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40770
12; 285.6; 17-DEC-2009 06:44:22; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40770
13; 508.0; 17-DEC-2009 06:48:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40770
14; 592.4; 17-DEC-2009 06:49:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40770
15; 789.5; 17-DEC-2009 06:52:46; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40770
16; 918.0; 17-DEC-2009 06:54:55; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40770
17; 1078.0; 17-DEC-2009 06:57:35; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40770
18; 1271.0; 17-DEC-2009 07:00:48; Dark ; 54.5; 23; 21Eps CMa ; 1.50; 26000;occ; 109; 0;40770
19; 1377.4; 17-DEC-2009 07:02:34; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;40770
20; 1539.8; 17-DEC-2009 07:05:16; Dark ; 52.0; 47; 2Bet CMa ; 1.98; 28000;occ; 104; 0;40770
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3; 2068.7; 17-DEC-2009 07:14:05; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;40770
4; 2189.5; 17-DEC-2009 07:16:06; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40770
5; 2318.0; 17-DEC-2009 07:18:15; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40770
6; 2441.4; 17-DEC-2009 07:20:18; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40770
7; 2654.0; 17-DEC-2009 07:23:51; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;40770
8; 2784.7; 17-DEC-2009 07:26:01; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;40770
9; 3704.2; 17-DEC-2009 07:41:21; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;40770
10; 3978.5; 17-DEC-2009 07:45:55; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40770
11; 4136.6; 17-DEC-2009 07:48:33; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40770
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13; 4534.2; 17-DEC-2009 07:55:11; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;40770
14; 4736.6; 17-DEC-2009 07:58:33; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;40770
15; 5340.7; 17-DEC-2009 08:08:37; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;40770
16; 5630.3; 17-DEC-2009 08:13:27; Dark ; 38.0; 163; 7Del Crv ; 2.94; 11000;occ; 76; 0;40770
17; 5707.2; 17-DEC-2009 08:14:44; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40770
18; 5988.9; 17-DEC-2009 08:19:26; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;40770
19; 6087.8; 17-DEC-2009 08:21:04; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40770
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22; 6629.0; 17-DEC-2009 08:30:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40770
23; 6826.2; 17-DEC-2009 08:33:23; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40770
24; 6954.5; 17-DEC-2009 08:35:31; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40770
25; 7114.6; 17-DEC-2009 08:38:11; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40770
26; 7307.4; 17-DEC-2009 08:41:24; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;40770
27; 7413.7; 17-DEC-2009 08:43:10; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;40770
28; 7576.3; 17-DEC-2009 08:45:53; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;40770
29; 7786.6; 17-DEC-2009 08:49:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40770

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4; 2189.4; 17-DEC-2009 08:56:42; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;40771
5; 2317.7; 17-DEC-2009 08:58:50; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40771
6; 2441.1; 17-DEC-2009 09:00:54; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40771
7; 2653.1; 17-DEC-2009 09:04:26; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;40771
8; 2784.3; 17-DEC-2009 09:06:37; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;40771
9; 3704.2; 17-DEC-2009 09:21:57; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;40771
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11; 4136.4; 17-DEC-2009 09:29:09; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40771
12; 4339.9; 17-DEC-2009 09:32:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40771
13; 4534.5; 17-DEC-2009 09:35:47; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;40771
14; 4736.8; 17-DEC-2009 09:39:09; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;40771
15; 5341.4; 17-DEC-2009 09:49:14; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40771
16; 5631.5; 17-DEC-2009 09:54:04; Dark ; 38.0; 163; 7Del Crv ; 2.94; 11000;occ; 76; 0;40771
17; 5708.4; 17-DEC-2009 09:55:21; Dark ; 51.0; 106; 9Bet Crv ; 2.65; 5600;occ; 102; 0;40771
18; 5989.4; 17-DEC-2009 10:00:02; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;40771
19; 6088.6; 17-DEC-2009 10:01:41; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40771
20; 6323.4; 17-DEC-2009 10:05:36; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40771
21; 6545.1; 17-DEC-2009 10:09:18; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40771
22; 6629.7; 17-DEC-2009 10:10:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40771
23; 6826.8; 17-DEC-2009 10:13:59; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40771
24; 6955.4; 17-DEC-2009 10:16:08; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40771
25; 7115.1; 17-DEC-2009 10:18:48; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;40771
26; 7307.6; 17-DEC-2009 10:22:00; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40771
27; 7414.1; 17-DEC-2009 10:23:47; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;40771
28; 7576.2; 17-DEC-2009 10:26:29; Dark ; 50.0; 47; 2Bet CMa ; 1.98; 28000;occ; 100; 0;40771

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3; 2068.3; 17-DEC-2009 10:35:17; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;40772
4; 2189.2; 17-DEC-2009 10:37:18; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40772
5; 2317.1; 17-DEC-2009 10:39:26; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40772
6; 2440.6; 17-DEC-2009 10:41:29; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40772
7; 2652.3; 17-DEC-2009 10:45:01; Bright; 65.0; 107; 37The Aur ; 2.65; 11000;occ; 130; 0;40772
8; 2783.6; 17-DEC-2009 10:47:12; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;40772
9; 3704.1; 17-DEC-2009 11:02:33; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;40772
10; 3978.0; 17-DEC-2009 11:07:06; Bright; 61.0; 32; 77Eps UMa ; 1.76; 11000;occ; 122; 0;40772

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13; 4534.5; 17-DEC-2009 11:16:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;40772
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15; 5342.2; 17-DEC-2009 11:29:51; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;40772
16; 5632.8; 17-DEC-2009 11:34:41; Dark ; 31.0; 163; 7Del Crv ; 2.94; 11000;occ; 62; 0;40772
17; 5709.5; 17-DEC-2009 11:35:58; Dark ; 55.5; 106; 9Bet Crv ; 2.65; 5600;occ; 111; 0;40772
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21; 6545.8; 17-DEC-2009 11:49:54; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40772
22; 6630.4; 17-DEC-2009 11:51:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40772
23; 6827.3; 17-DEC-2009 11:54:36; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40772
24; 6955.9; 17-DEC-2009 11:56:44; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40772
25; 7115.6; 17-DEC-2009 11:59:24; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40772
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27; 7414.2; 17-DEC-2009 12:04:23; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;40772
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3; 1883.5; 17-DEC-2009 12:12:48; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40773
4; 2067.9; 17-DEC-2009 12:15:52; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40773
5; 2189.2; 17-DEC-2009 12:17:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;40773
6; 2316.7; 17-DEC-2009 12:20:01; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40773
7; 2440.2; 17-DEC-2009 12:22:05; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40773
8; 2651.9; 17-DEC-2009 12:25:36; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40773
9; 2783.2; 17-DEC-2009 12:27:48; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;40773
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12; 4136.4; 17-DEC-2009 12:50:21; Bright; 58.0; 39; 85Eta UMA ; 1.85; 24000;occ; 116; 0;40773
13; 4534.7; 17-DEC-2009 12:56:59; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;40773
14; 4737.5; 17-DEC-2009 13:00:22; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;40773
15; 5343.1; 17-DEC-2009 13:10:27; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40773
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17; 5710.7; 17-DEC-2009 13:16:35; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40773
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19; 6090.0; 17-DEC-2009 13:22:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40773
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21; 6546.4; 17-DEC-2009 13:30:31; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40773
22; 6631.2; 17-DEC-2009 13:31:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40773
23; 6828.1; 17-DEC-2009 13:35:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;40773
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26; 7308.5; 17-DEC-2009 13:43:13; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40773
27; 7414.8; 17-DEC-2009 13:44:59; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40773

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3; 1883.2; 17-DEC-2009 13:53:23; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40774
4; 2067.5; 17-DEC-2009 13:56:28; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40774
5; 2189.3; 17-DEC-2009 13:58:30; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40774
6; 2316.4; 17-DEC-2009 14:00:37; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40774
7; 2440.1; 17-DEC-2009 14:02:40; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40774
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9; 2782.5; 17-DEC-2009 14:08:23; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40774
10; 3704.2; 17-DEC-2009 14:23:44; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40774
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12; 4136.1; 17-DEC-2009 14:30:56; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;40774
13; 4340.1; 17-DEC-2009 14:34:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40774
14; 4535.1; 17-DEC-2009 14:37:35; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40774
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16; 5343.8; 17-DEC-2009 14:51:04; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40774
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18; 5711.8; 17-DEC-2009 14:57:12; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40774
19; 5991.4; 17-DEC-2009 15:01:52; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40774
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27; 2411.4; 31-DEC-2009 04:58:59; Bright; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;40969
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