

GOMOS Daily Report 13-JUL-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	16JUL2009 04:43:04
Data source version	GOMOS/5.00
Start time of products	13JUL2009 00:02:00
Stop time of products	13JUL2009 23:44:16
Store outputs in DB	Yes
Nb of level 1b prods	74
Nb of prods with errors	0

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

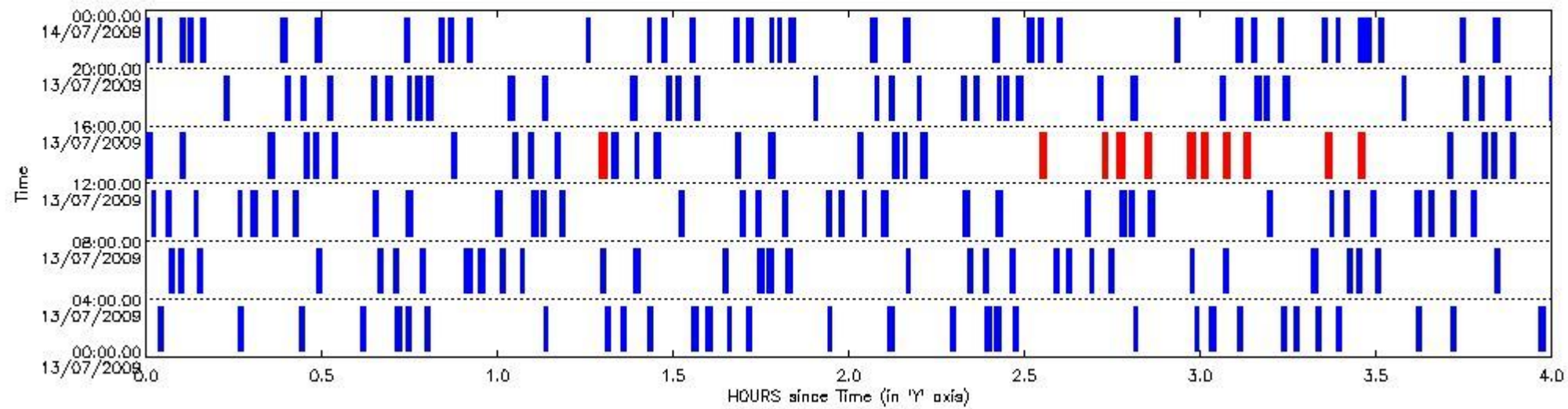
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

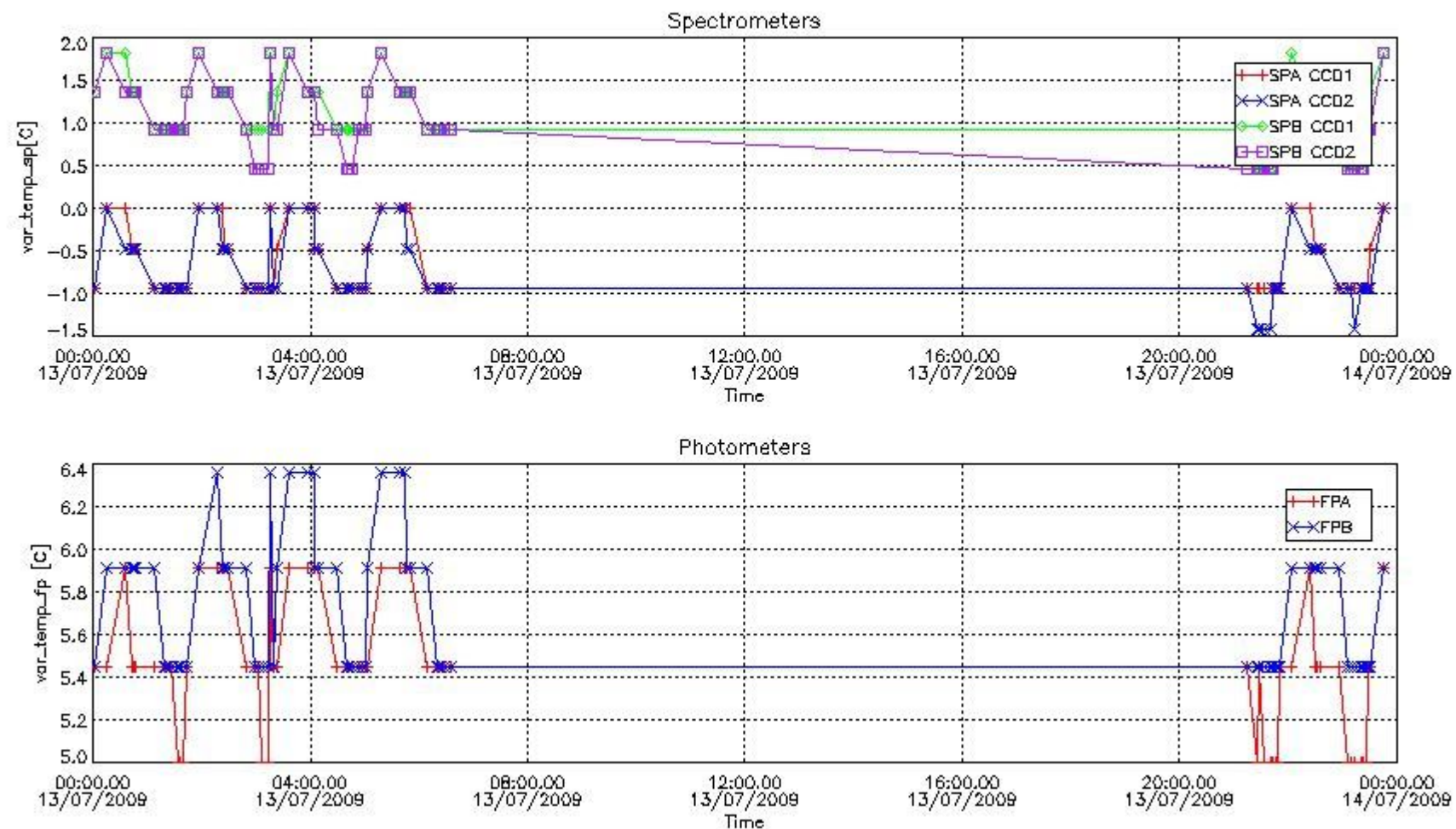
UTC start time	Star name	Star ID	Orbit
13-JUL-2009 13:17:18	11BetCas	74	38526
13-JUL-2009 14:32:41	17ZetAql	168	38527
13-JUL-2009 14:43:10	18DelCyg	144	38527
13-JUL-2009 14:45:43	50AlpCyg	19	38527
13-JUL-2009 14:50:24	5AlpCep	89	38527
13-JUL-2009 14:57:54	11BetCas	74	38527
13-JUL-2009 15:00:09	37DelCas	110	38527
13-JUL-2009 15:04:01	23GamPer	160	38527
13-JUL-2009 15:07:22	57Gam1And	73	38527
13-JUL-2009 15:21:12	92AlpCet	94	38527
13-JUL-2009 15:26:55	DSA1064	0	38527

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
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60	GOM_TRA_1PNPDE20090713_220340_000000582080_00401_38531_6165.N1	13-JUL-2009 22:03:40	Dark	58.000	94	92Alp Cet	2.5260	3100.0	116	38531	No
61	GOM_TRA_1PNPDE20090713_222437_000000532080_00402_38532_6313.N1	13-JUL-2009 22:24:37	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	38532	No
62	GOM_TRA_1PNPDE20090713_223033_000000602080_00402_38532_6314.N1	13-JUL-2009 22:30:33	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38532	No
63	GOM_TRA_1PNPDE20090713_223212_000000542080_00402_38532_6315.N1	13-JUL-2009 22:32:12	Straylight	53.500	31	Alp Gru	1.7340	15200.	107	38532	No
64	GOM_TRA_1PNPDE20090713_223524_000000532080_00402_38532_6316.N1	13-JUL-2009 22:35:24	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38532	No
65	GOM_TRA_1PNPDE20090713_225541_000000412080_00402_38532_6317.N1	13-JUL-2009 22:55:41	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38532	No
66	GOM_TRA_1PNPDE20090713_230608_000000582080_00402_38532_6318.N1	13-JUL-2009 23:06:08	Bright	57.500	144	18Del Cyg	2.8600	11000.	115	38532	No
67	GOM_TRA_1PNPDE20090713_230839_000000522080_00402_38532_6319.N1	13-JUL-2009 23:08:39	Bright	51.500	19	50Alp Cyg	1.2460	10500.	103	38532	No
68	GOM_TRA_1PNPDE20090713_231321_000000402080_00402_38532_6320.N1	13-JUL-2009 23:13:21	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38532	No
69	GOM_TRA_1PNPDE20090713_232051_000000522080_00402_38532_6321.N1	13-JUL-2009 23:20:51	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38532	No
70	GOM_TRA_1PNPDE20090713_232307_000000452080_00402_38532_6322.N1	13-JUL-2009 23:23:07	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38532	No
71	GOM_TRA_1PNPDE20090713_232700_000000552080_00402_38532_6323.N1	13-JUL-2009 23:27:00	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	38532	No
72	GOM_TRA_1PNPDE20090713_232820_000000432080_00402_38532_6324.N1	13-JUL-2009 23:28:20	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	38532	No
73	GOM_TRA_1PNPDE20090713_233021_000000542080_00402_38532_6325.N1	13-JUL-2009 23:30:21	Bright	54.000	73	57Gam1And	2.2600	13100.	108	38532	No
74	GOM_TRA_1PNPDE20090713_234416_000000622080_00402_38532_6326.N1	13-JUL-2009 23:44:16	Dark	61.500	94	92Alp Cet	2.5260	3100.0	123	38532	No

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



4. Overview of dark signal processing per product

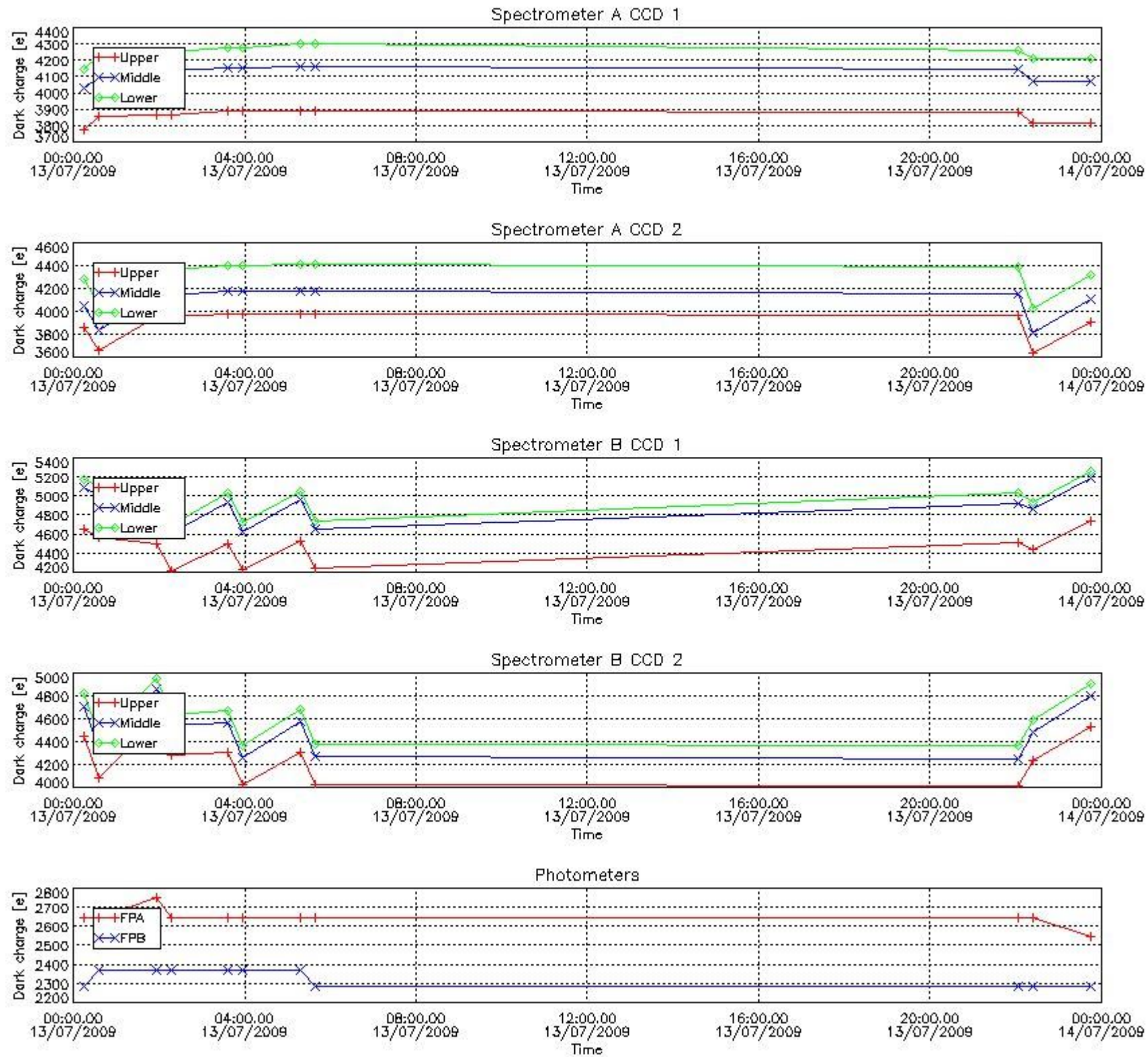
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090713_211505_000000412080_00401_38531_6156.N1	DC map used
GOM_TRA_1PNPDE20090713_212533_000000432080_00401_38531_6157.N1	DC map used
GOM_TRA_1PNPDE20090713_212804_000000522080_00401_38531_6158.N1	DC map used
GOM_TRA_1PNPDE20090713_213246_000000462080_00401_38531_6159.N1	DC map used
GOM_TRA_1PNPDE20090713_214015_000000522080_00401_38531_6160.N1	DC map used
GOM_TRA_1PNPDE20090713_214232_000000662080_00401_38531_6161.N1	DC map used
GOM_TRA_1PNPDE20090713_214625_000000412080_00401_38531_6162.N1	DC map used
GOM_TRA_1PNPDE20090713_214744_000000412080_00401_38531_6163.N1	DC map used
GOM_TRA_1PNPDE20090713_214945_000000602080_00401_38531_6164.N1	DC map used
GOM_TRA_1PNPDE20090713_220340_000000582080_00401_38531_6165.N1	DC map used

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



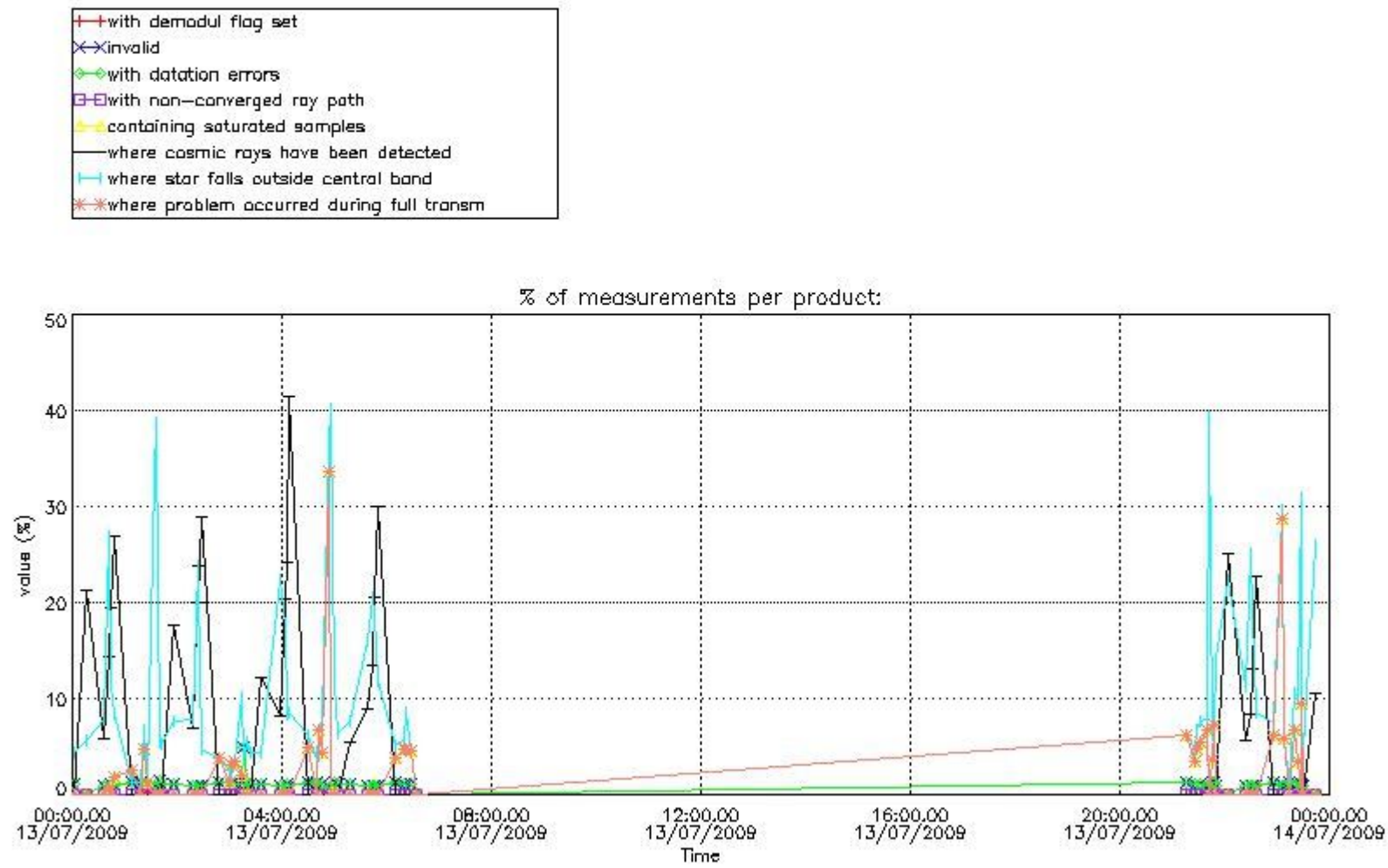
5. Demodulation flag and quality information monitoring

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.

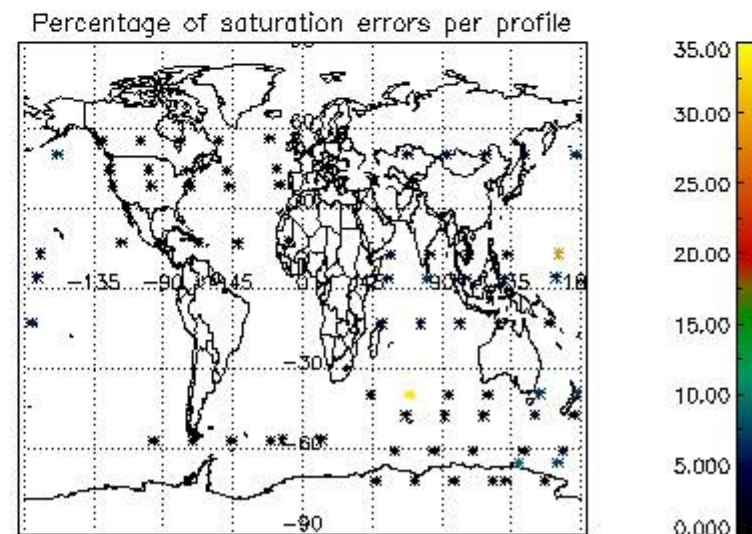
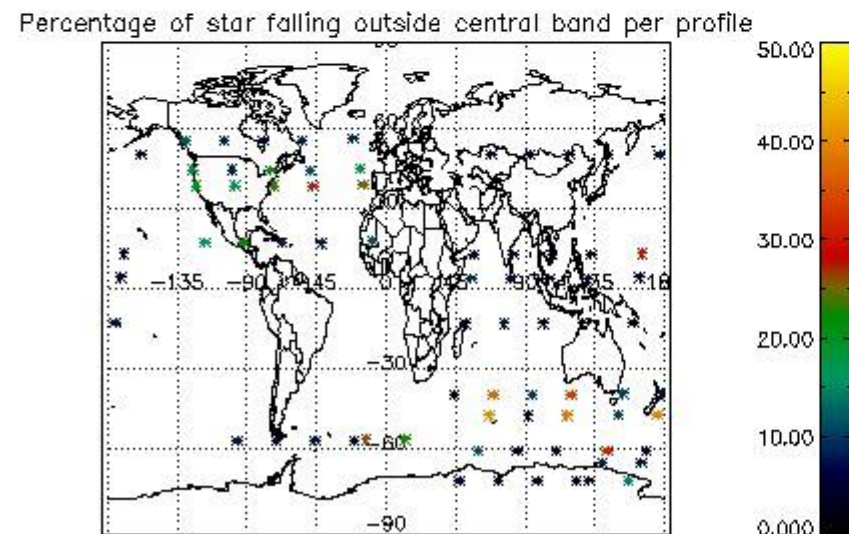
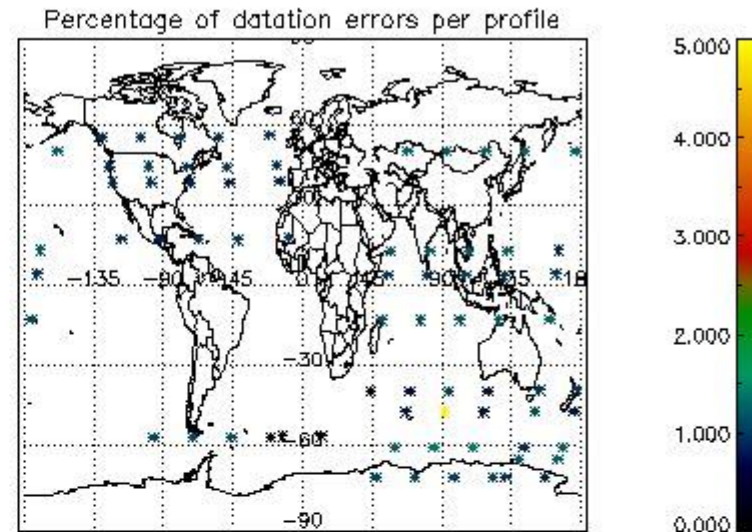
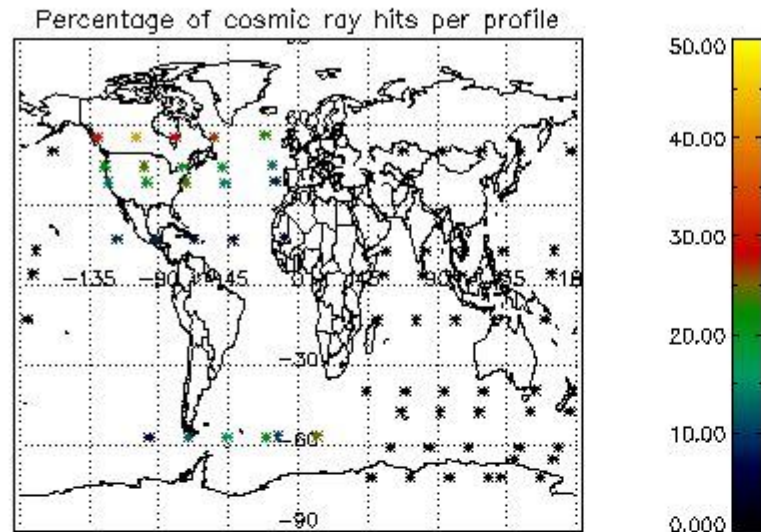
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.5676 %
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)



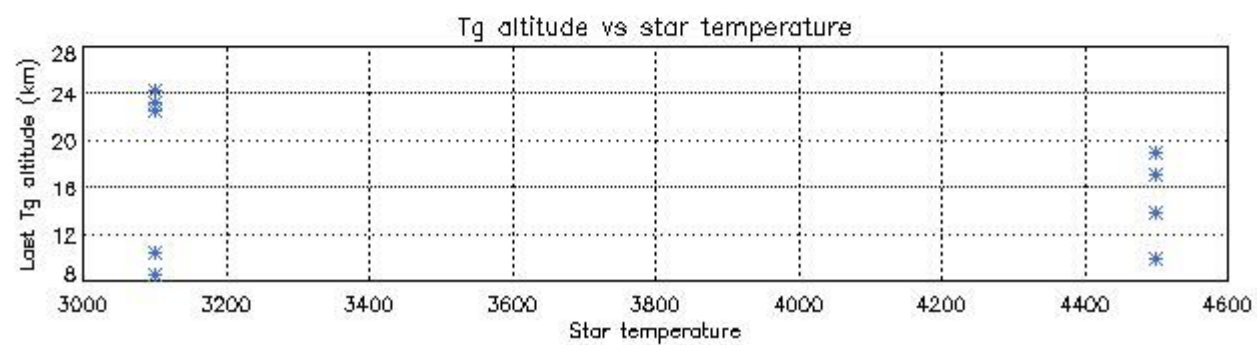
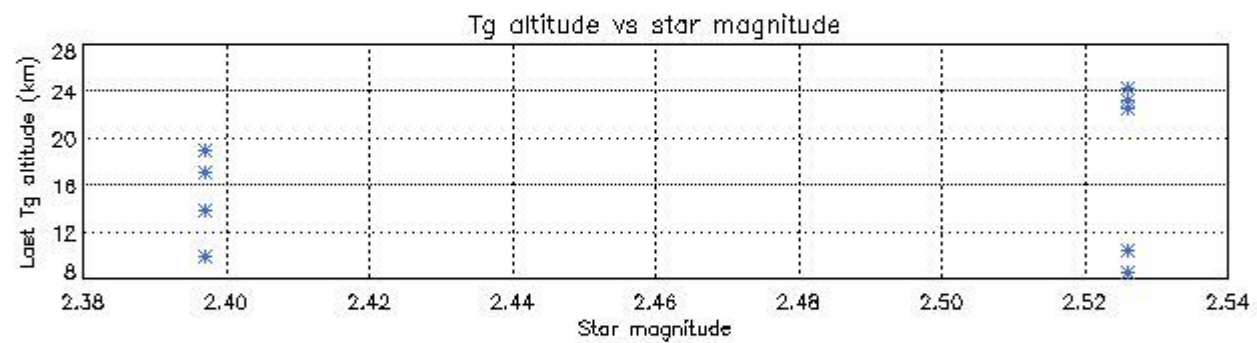
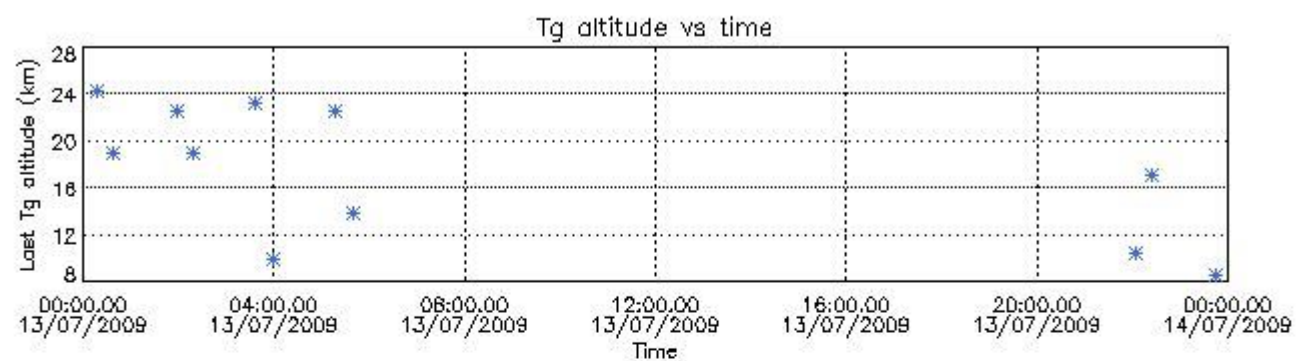
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.258	20.014	NaN
St. deviation:	5.7892	7.4337	NaN
Maximum:	24.223	30.377	NaN
Minimum:	8.4875	3.4556	NaN
Number of data:	11.000	47.000	NaN

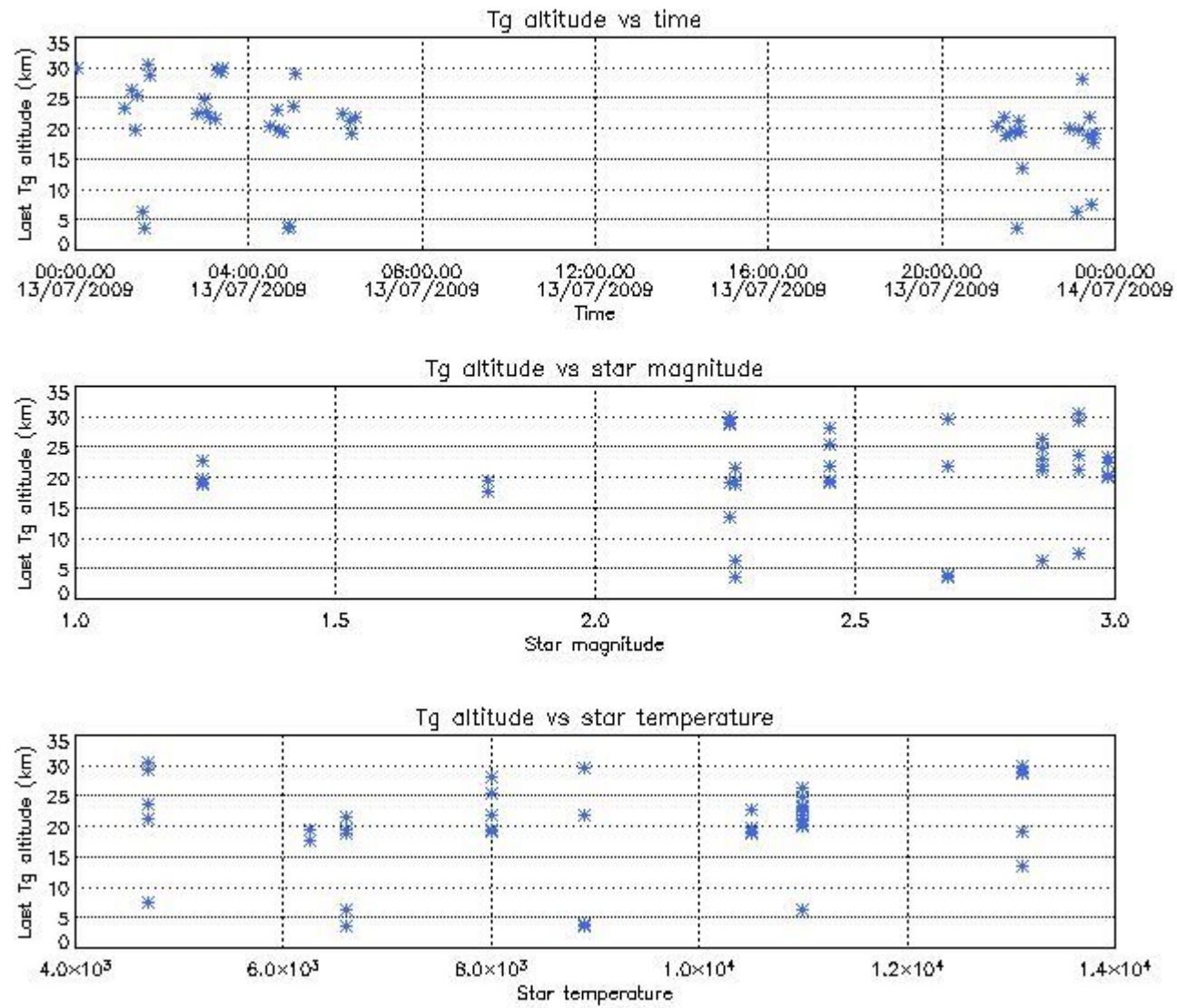
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

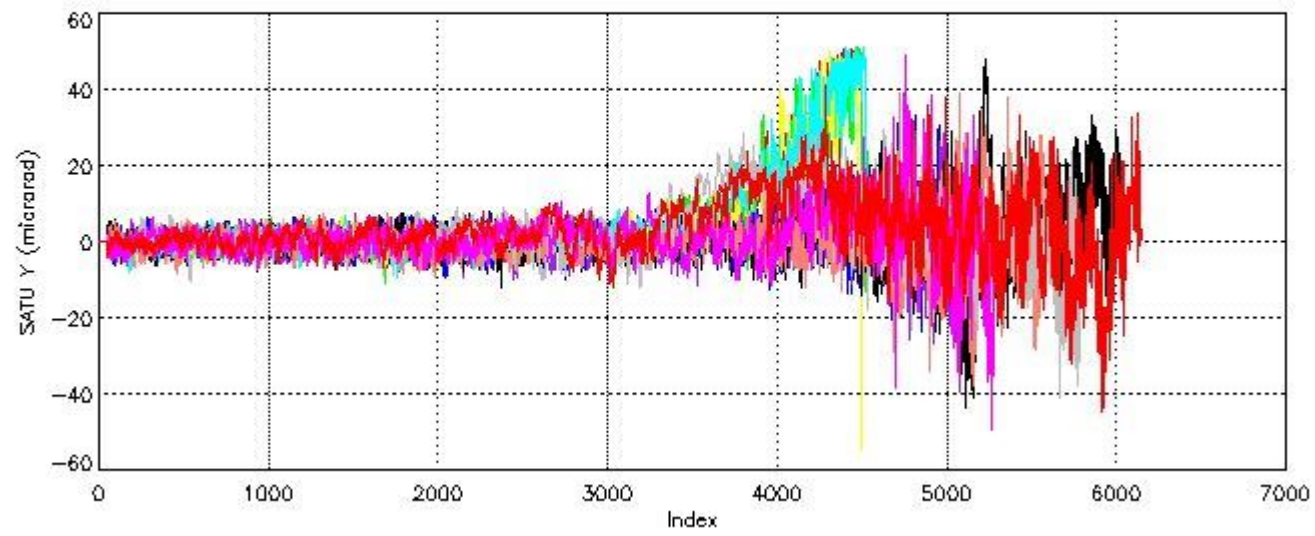
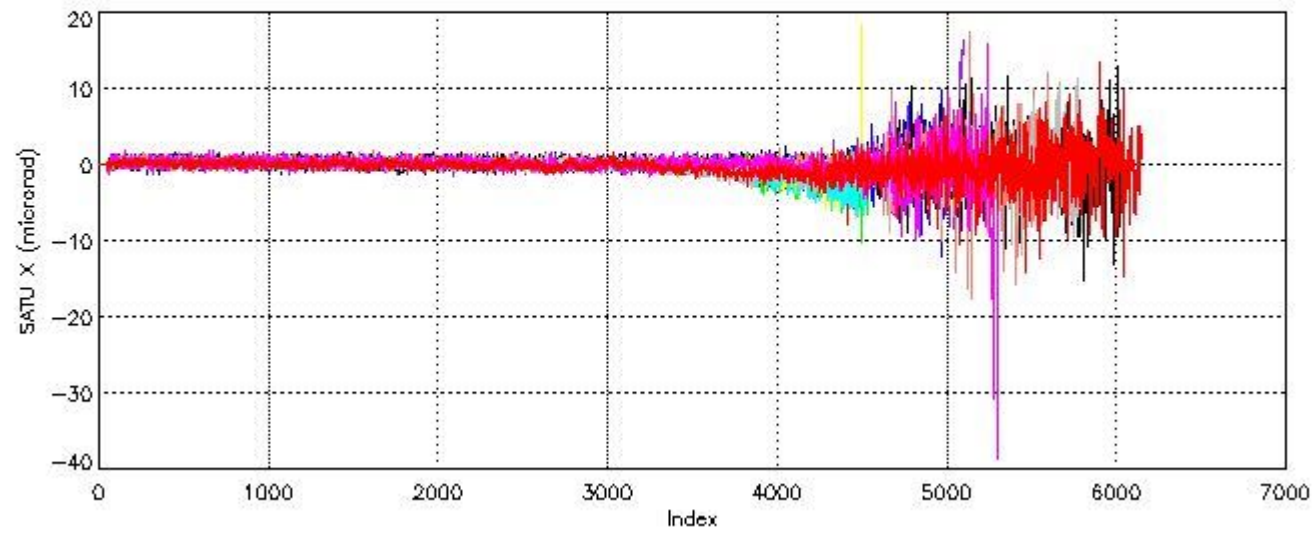


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20480	-0.19709	0.24533	-0.20058
St. deviation:	0.36450	2.1623	1.0087	3.6252
Maximum:	1.9000	6.9000	6.5000	14.900
Minimum:	-1.3000	-10.600	-6.1000	-14.600

Number of data:	13000.	13000.	50550.	50550.
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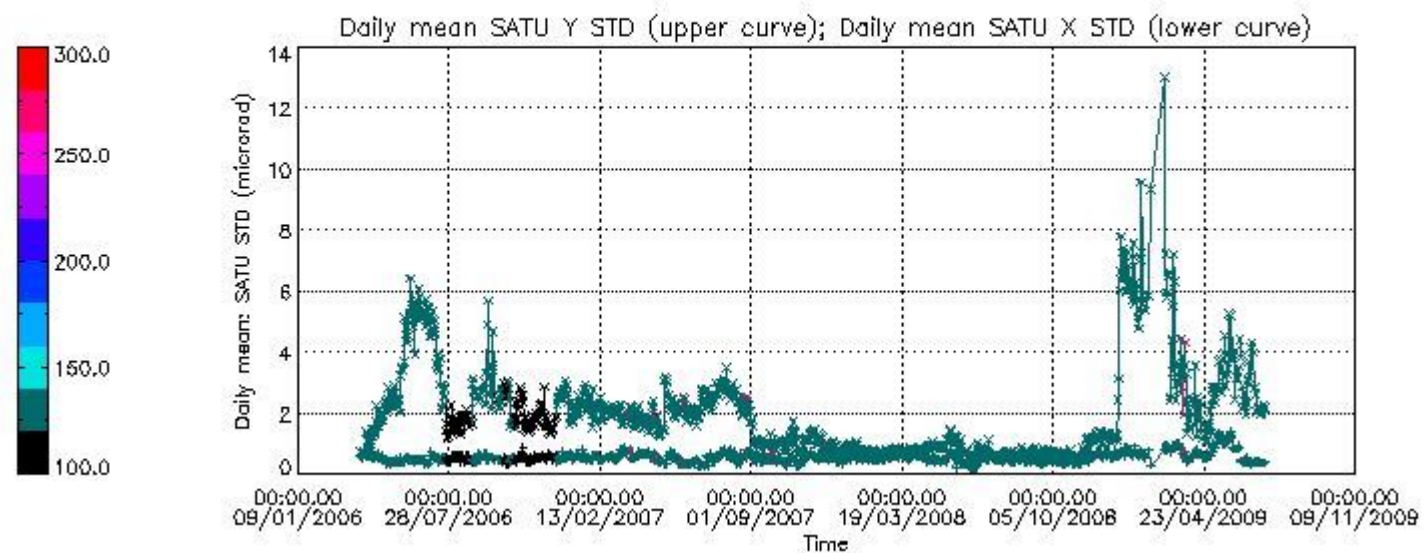
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

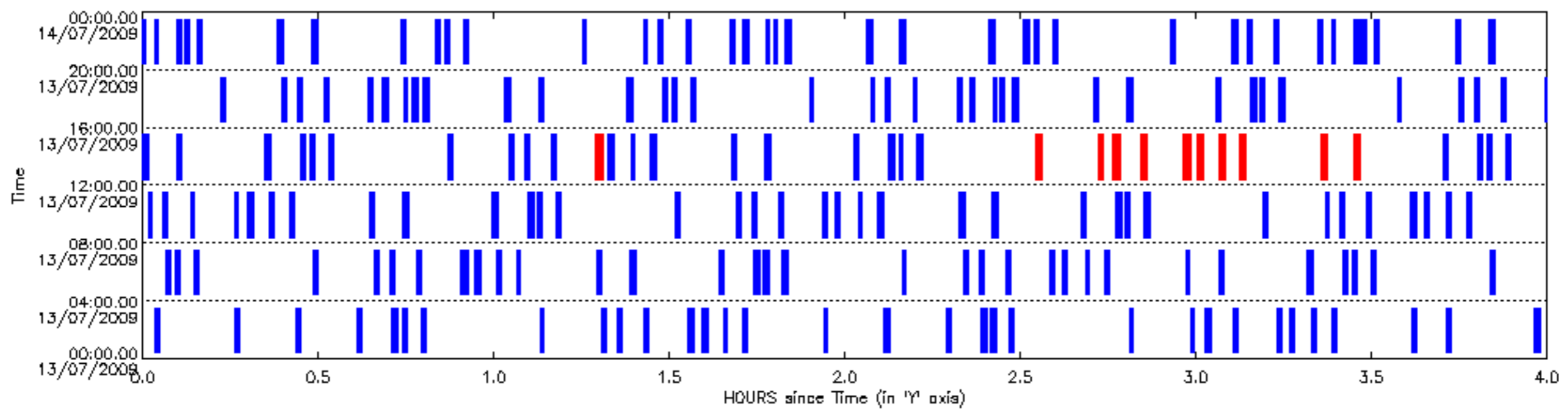
Lower curve: STD of SATU X axis

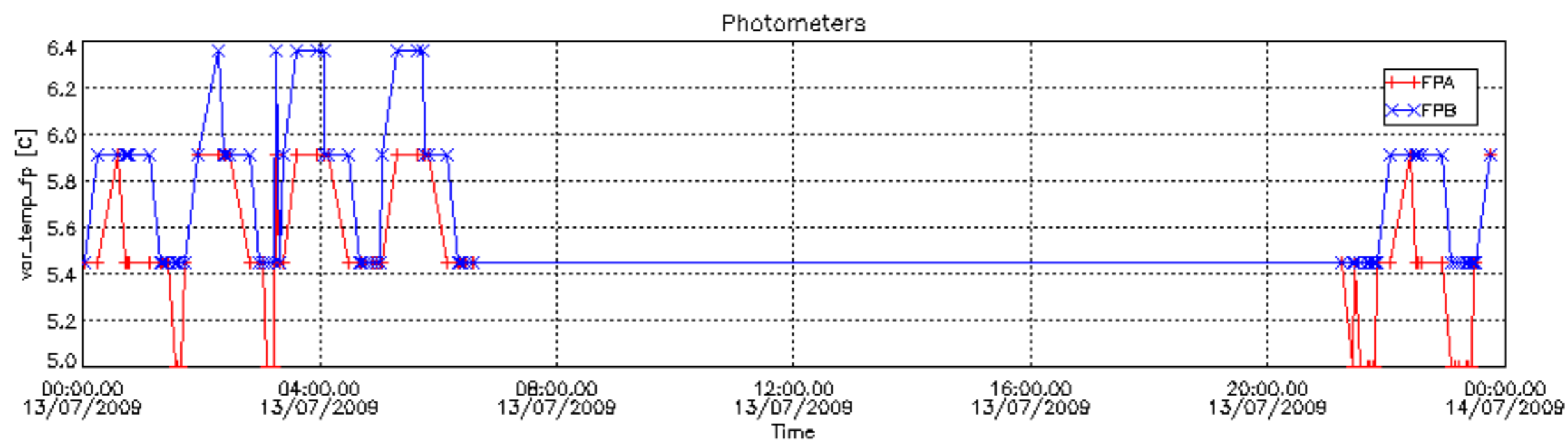
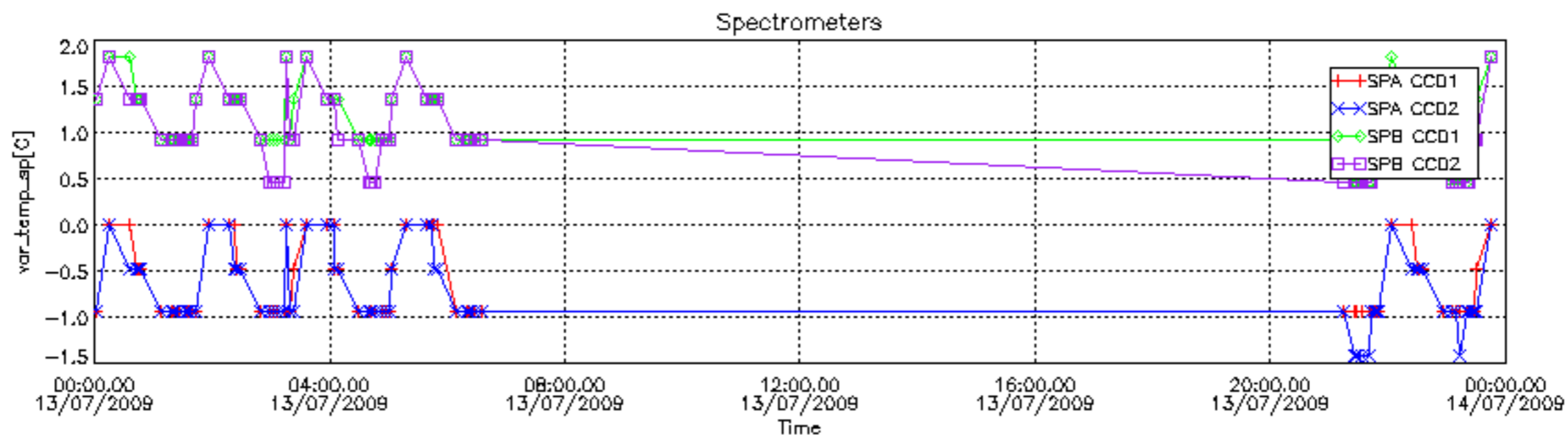


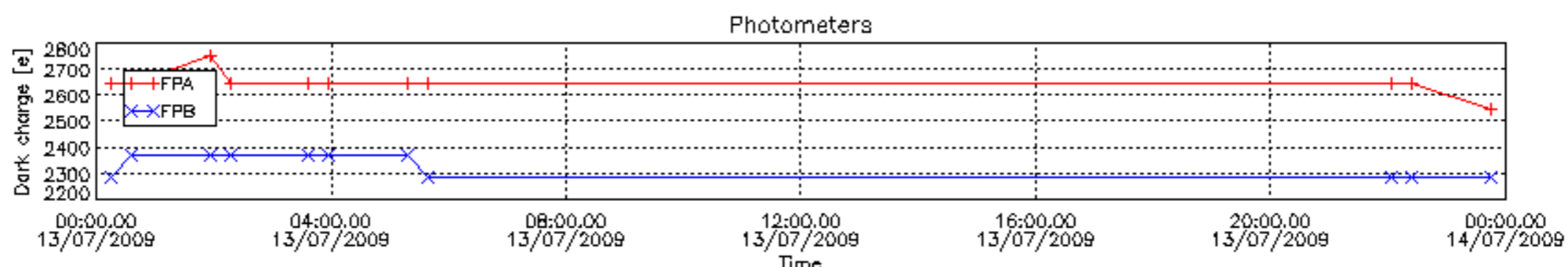
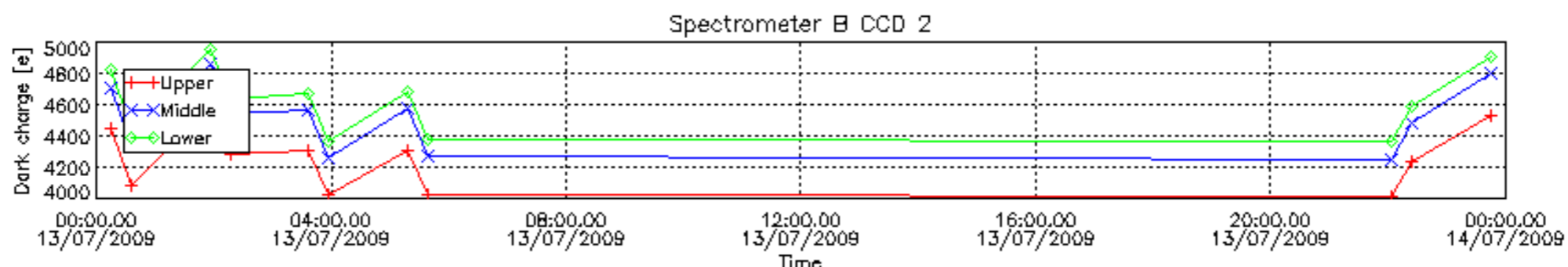
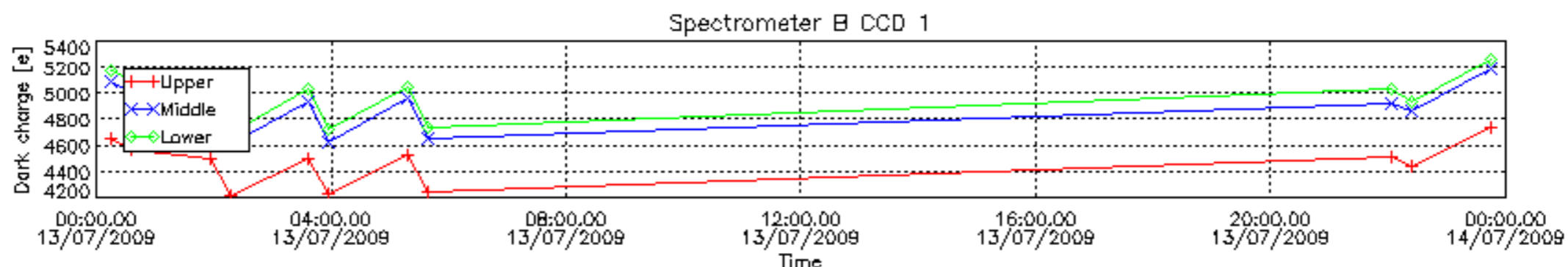
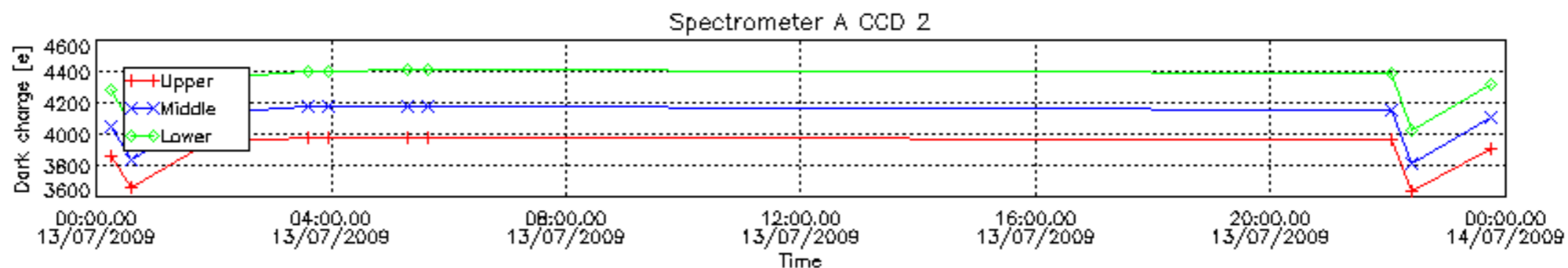
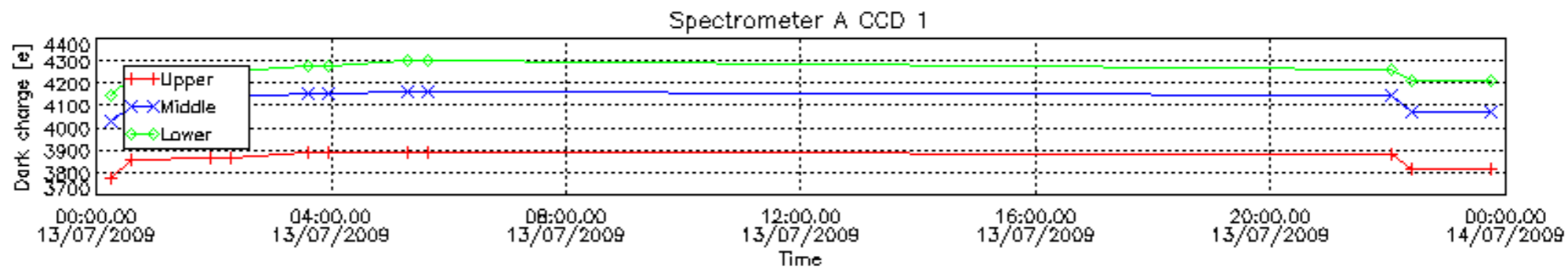
8. Auxiliary Data Files used for the production reported in section 2.4

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.

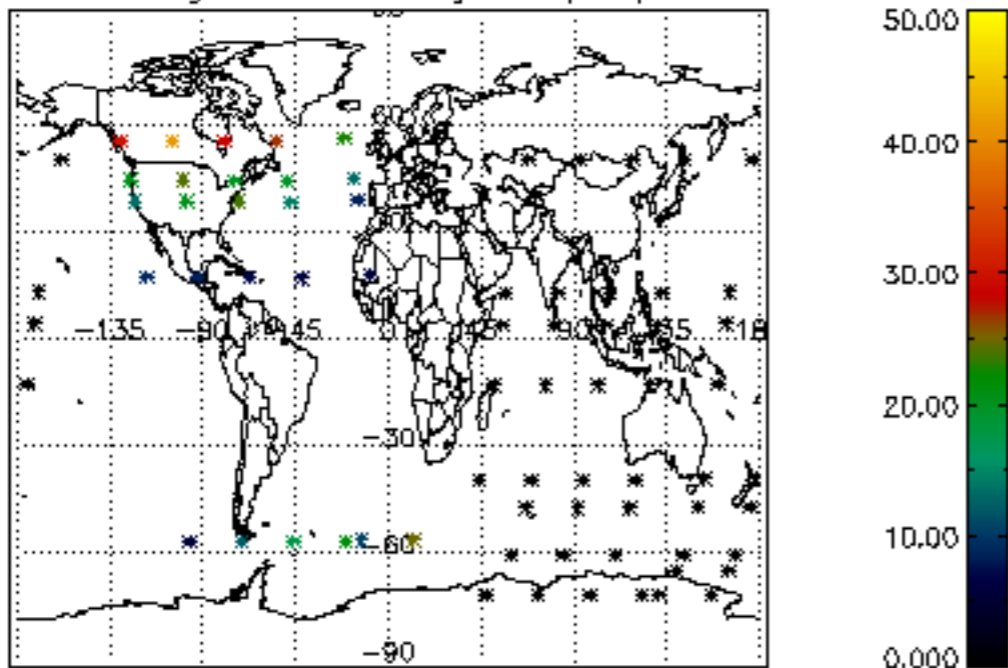
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-JUL-2009 00:02:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090708_092624_20090706_000000_20100101_000000	1	13-JUL-2009 00:02:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-JUL-2009 00:02:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JUL-2009 00:02:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-JUL-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20090712_064112_20090712_210000_20090713_090000	1	13-JUL-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20090712_184111_20090713_030000_20090713_150000	25	13-JUL-2009 03:16:01
ECMWF_FILE	AUX_ECF_AXNECM20090713_064112_20090713_210000_20090714_090000	51	13-JUL-2009 21:15:05
OPTIONAL_ECMWF_FILE	MISSING	1	13-JUL-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_204709_000063762080_00386_38516_8340.N1	1	13-JUL-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_223844_000057382080_00387_38517_8341.N1	3	13-JUL-2009 00:36:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_001941_000054192080_00388_38518_8342.N1	15	13-JUL-2009 01:56:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_015519_000044632080_00389_38519_8343.N1	25	13-JUL-2009 03:16:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_031501_000054192080_00390_38520_8344.N1	37	13-JUL-2009 04:54:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090713_205220_000038252080_00401_38531_8346.N1	51	13-JUL-2009 21:15:05



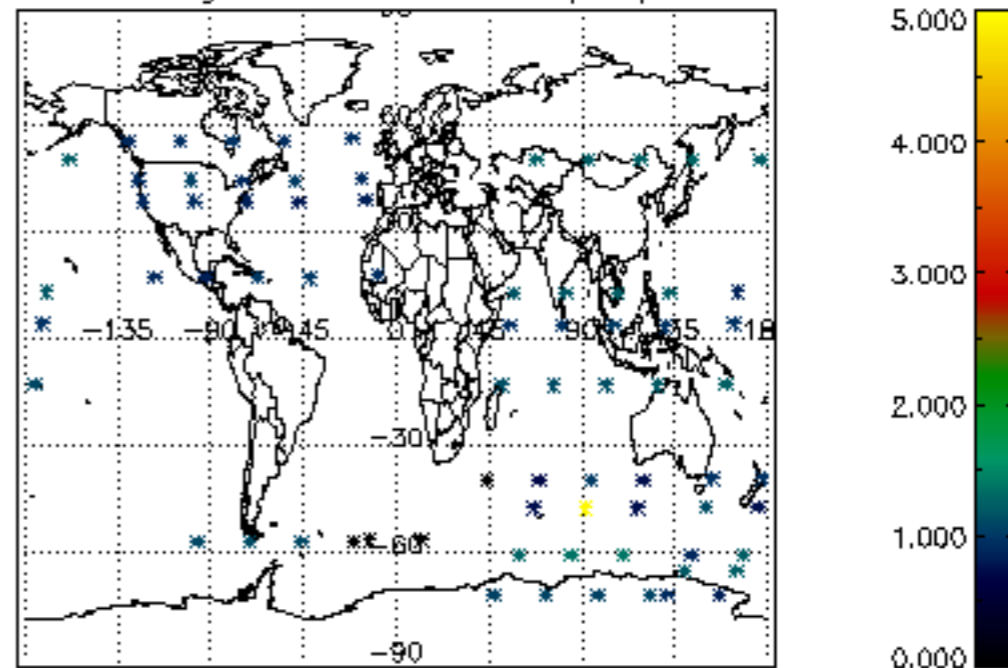




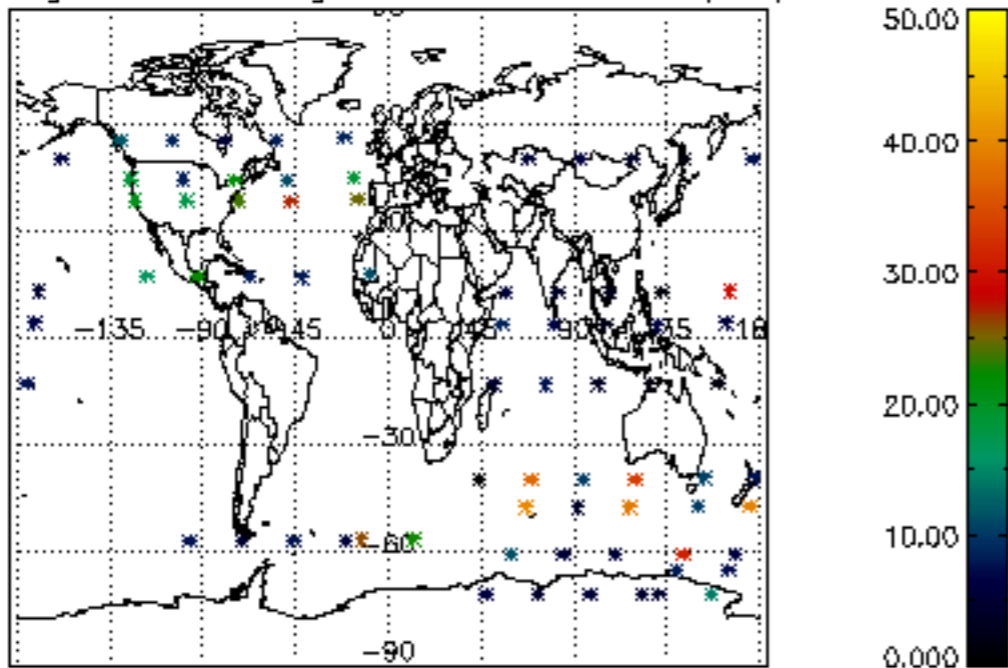
Percentage of cosmic ray hits per profile



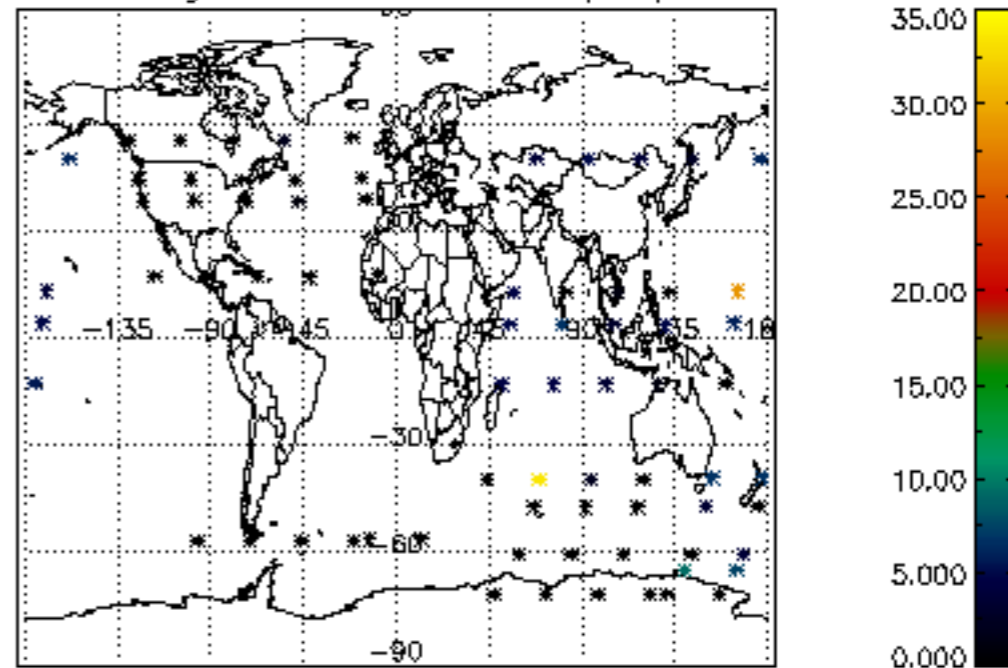
Percentage of datation errors per profile



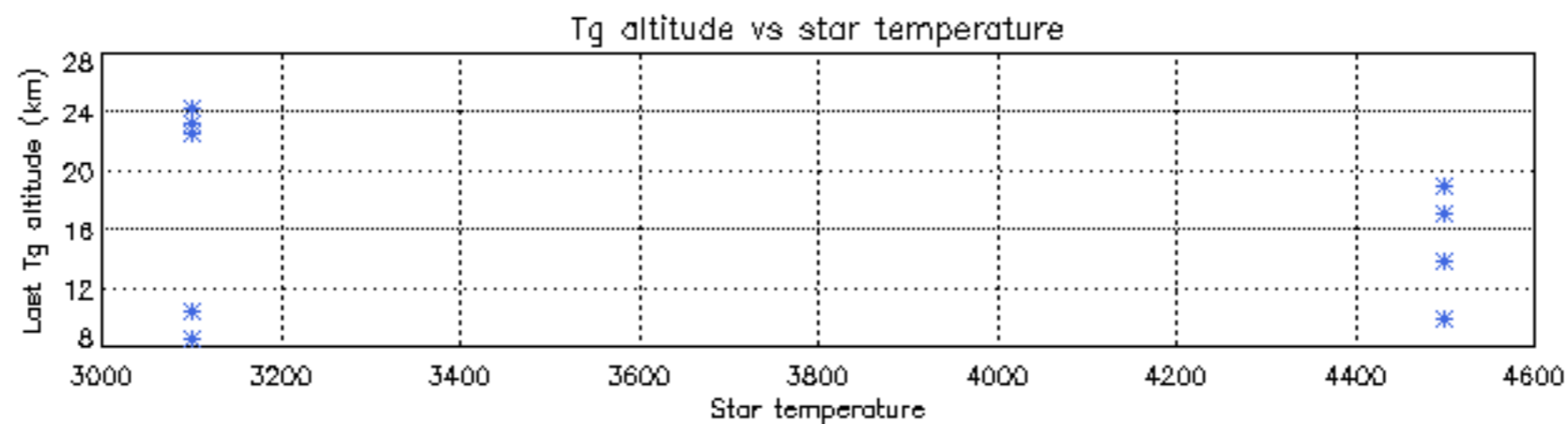
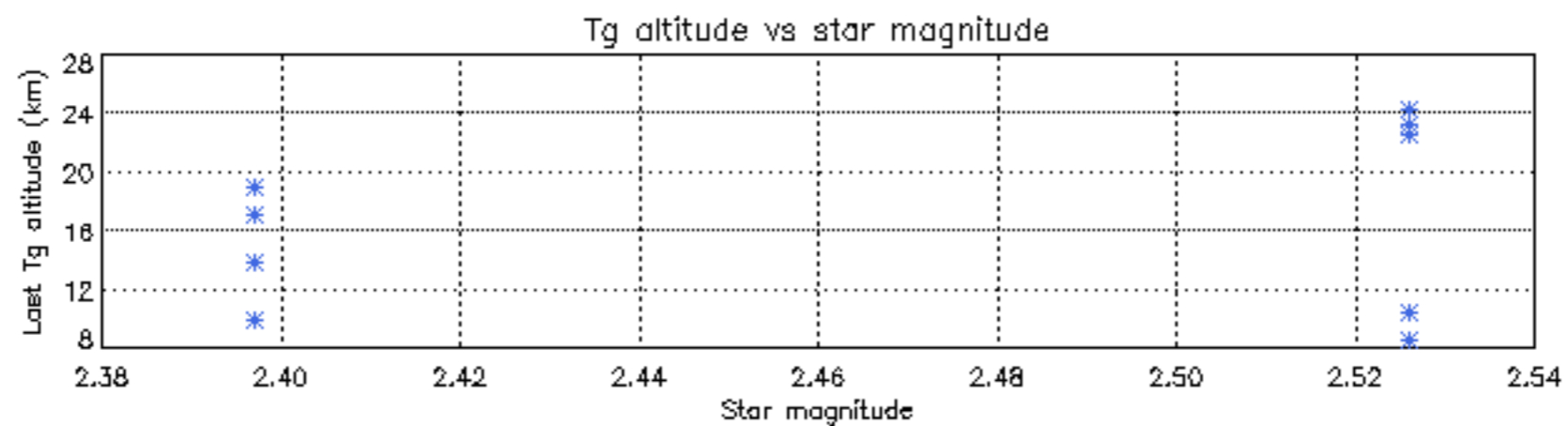
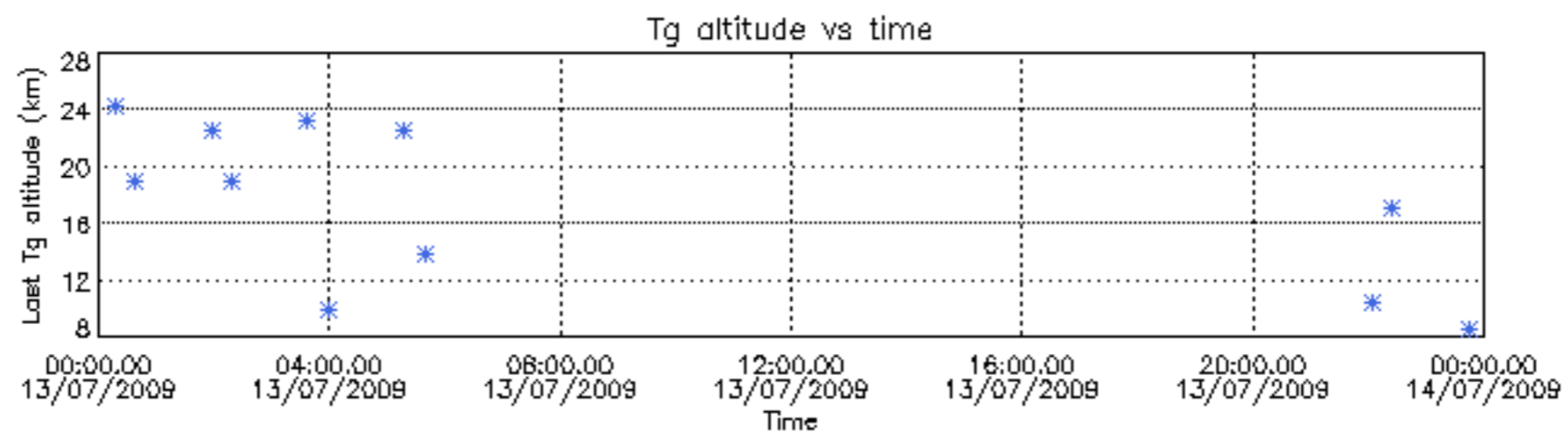
Percentage of star falling outside central band per profile



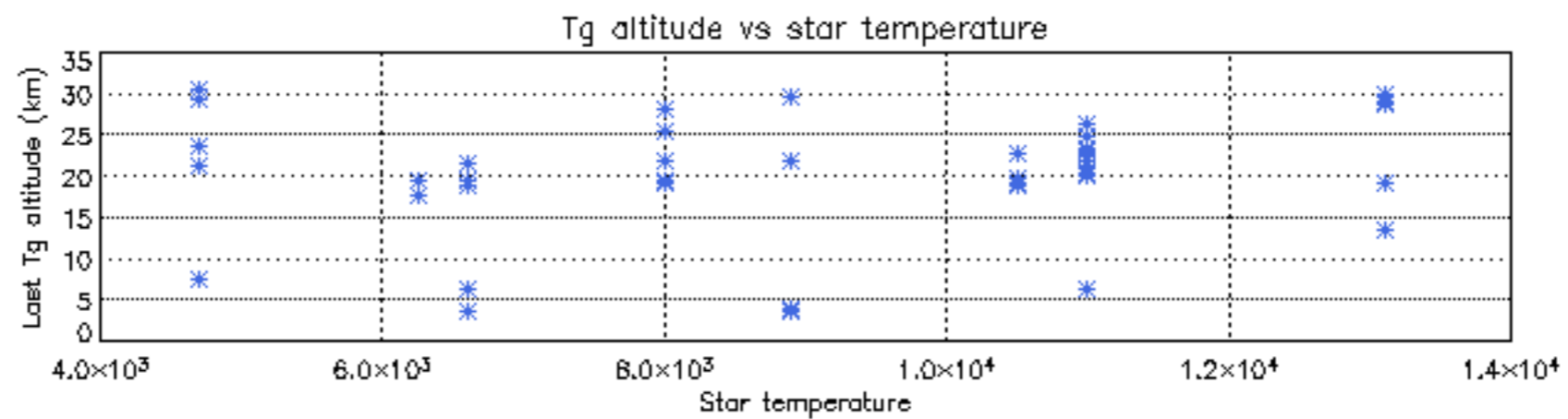
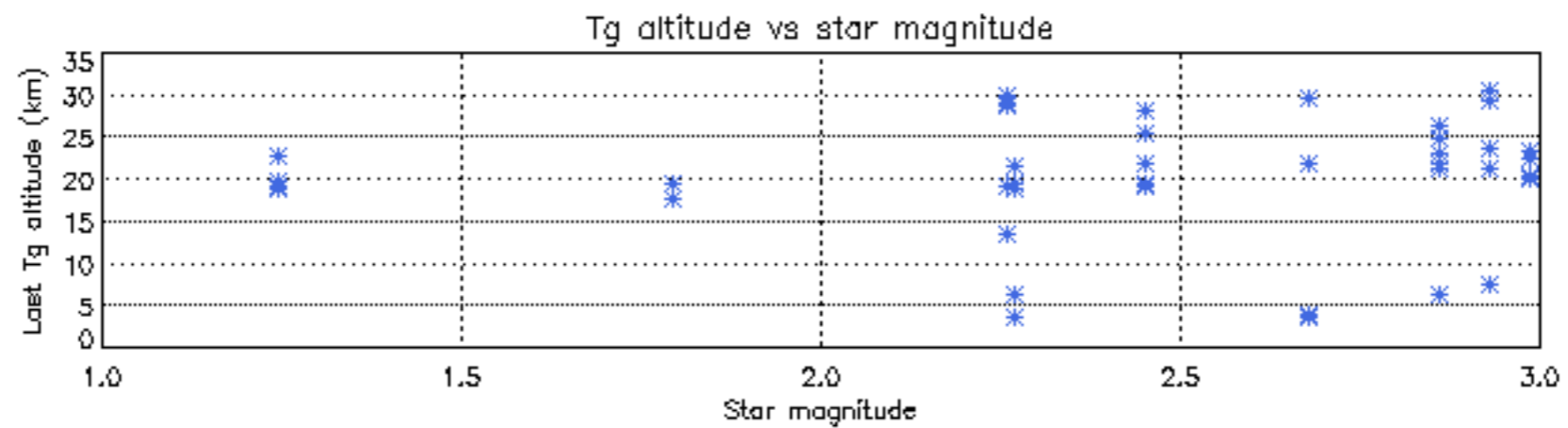
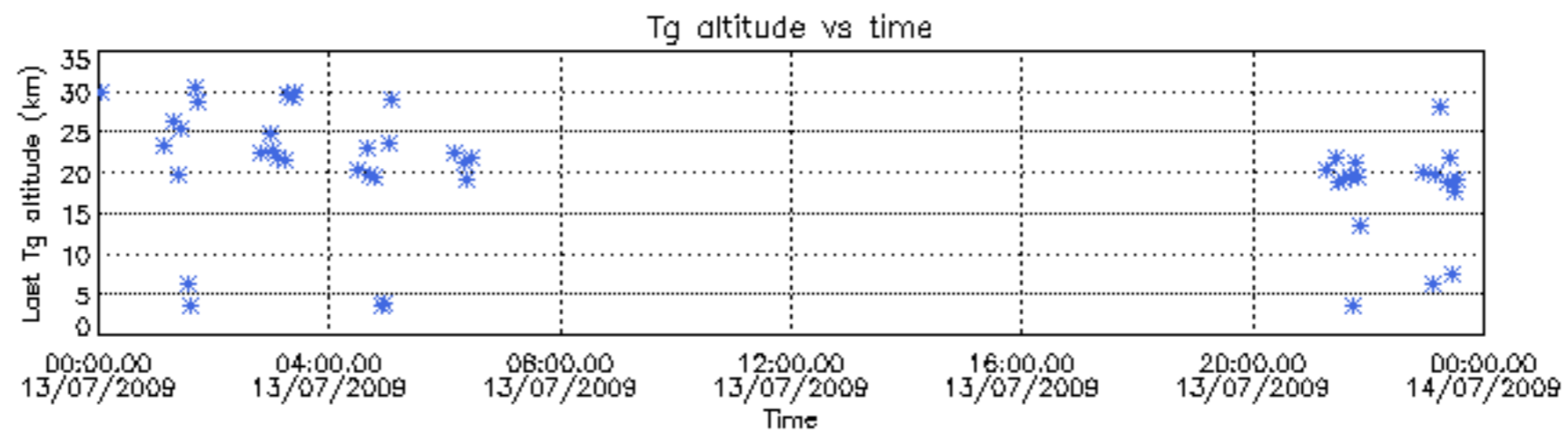
Percentage of saturation errors per profile

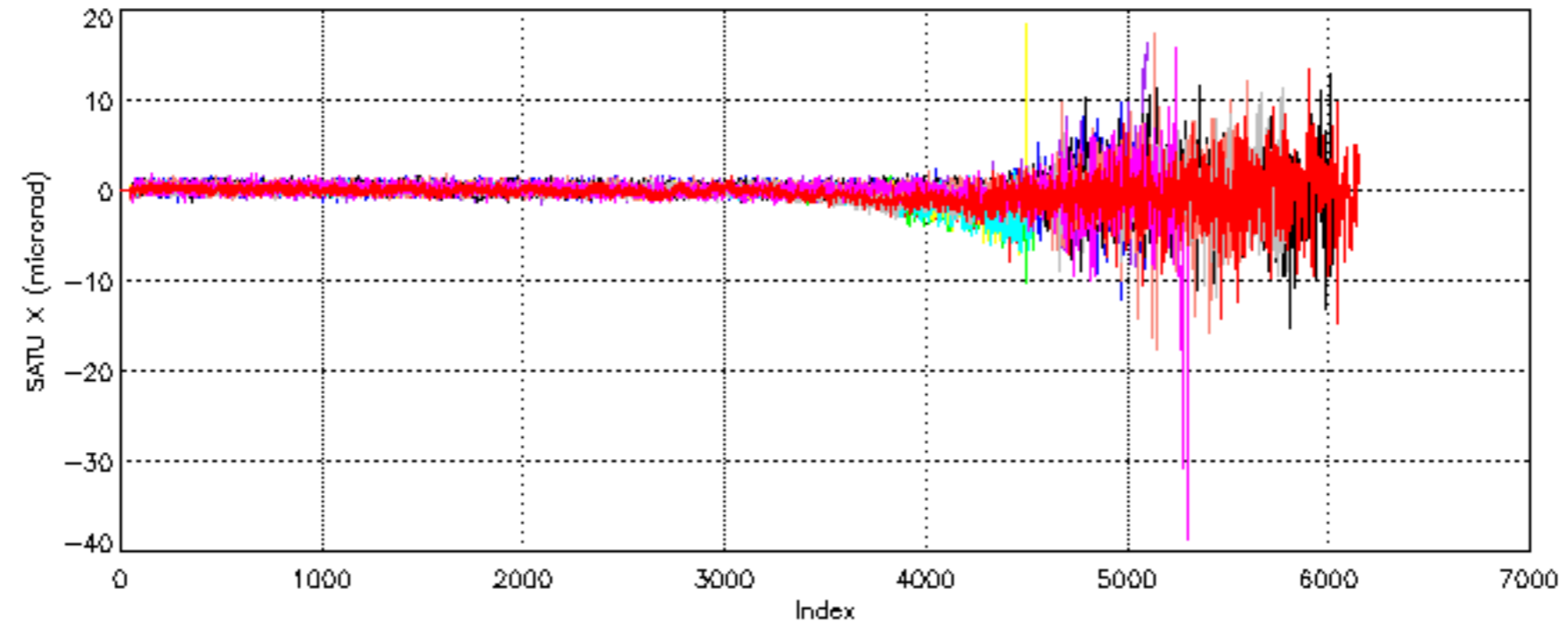


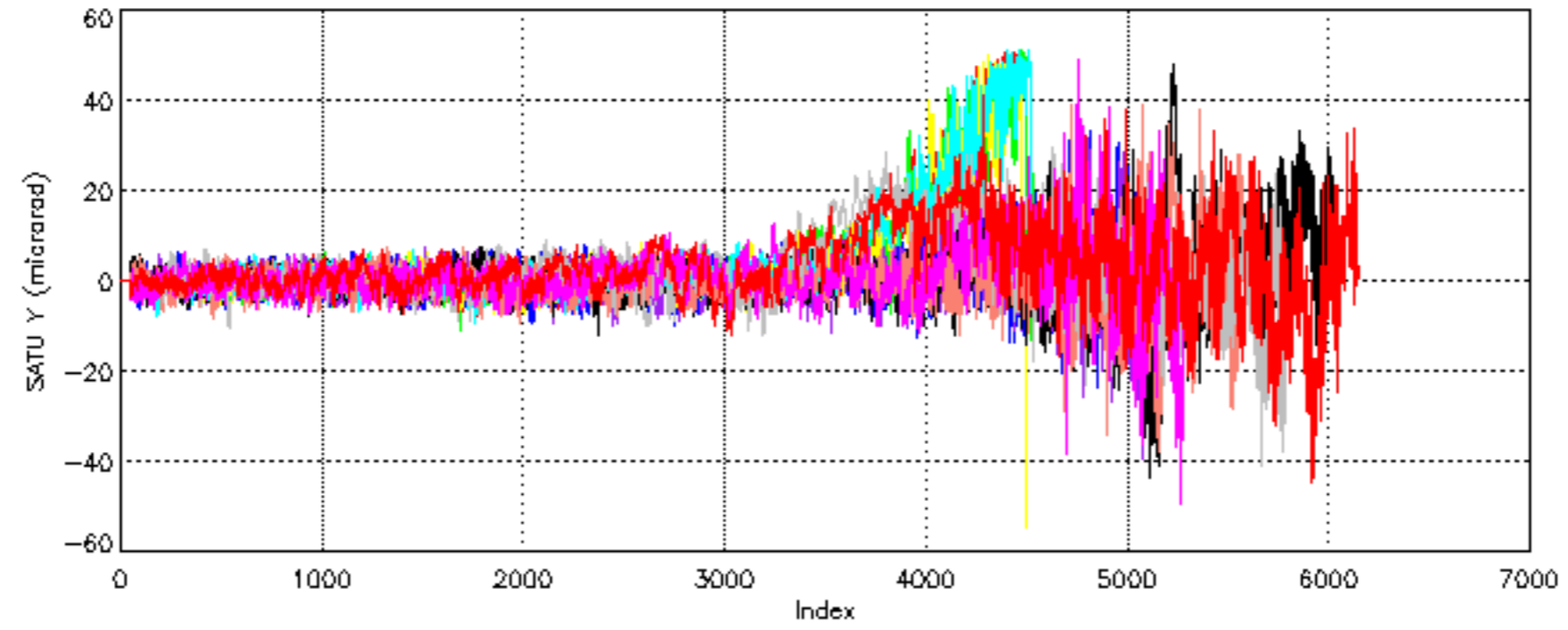
Tangent altitude at which the star is lost

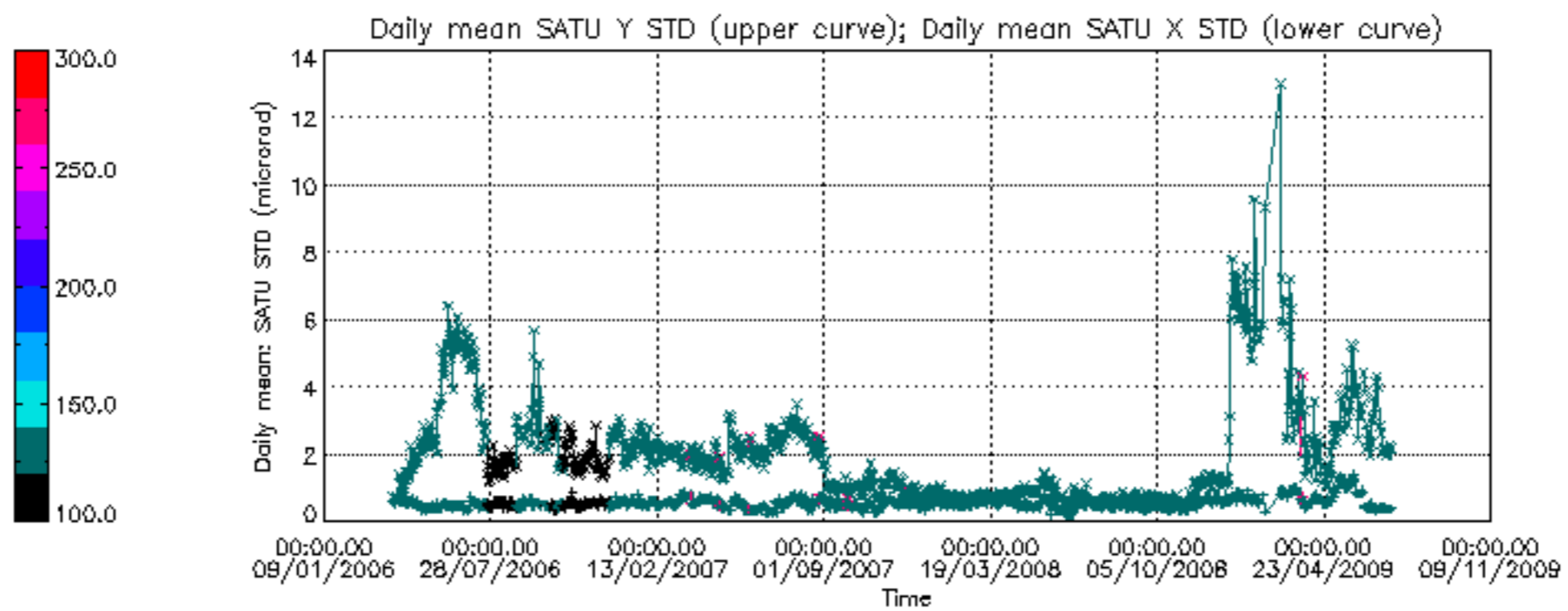


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090702_010909_000044272080_00231_38361_8080.N1

1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361
 2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
 4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
 5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
 7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
 8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
 9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
 10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
 11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
 12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362

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 2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348
 3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
 4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
 6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
 7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
 8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
 10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
 11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
 12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348

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 2; -1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
 3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
 4; -1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348
 5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348
 6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349
 7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
 8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
 9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
 10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
 11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
 12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
 13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
 14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349

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 2; -2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349
 3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349
 4; -1610.7; 01-JUL-2009 04:43:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38349
 5; -1355.2; 01-JUL-2009 04:48:03; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38349
 6; -530.7; 01-JUL-2009 05:01:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38349
 7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350
 8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38350
 9; 606.1; 01-JUL-2009 05:20:44; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38350
 10; 779.9; 01-JUL-2009 05:23:38; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38350
 11; 1481.8; 01-JUL-2009 05:35:20; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38350
 12; 2230.2; 01-JUL-2009 05:47:48; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38350
 13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
 14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350
 15; 3341.8; 01-JUL-2009 06:06:20; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38350

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 2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359
 3; 2646.2; 01-JUL-2009 21:00:07; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38359
 4; 2912.3; 01-JUL-2009 21:04:34; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38359
 5; 3335.3; 01-JUL-2009 21:11:37; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38359
 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
 10; 4684.1; 01-JUL-2009 21:34:05; Dark ; 38.0; 50; 13Alp Ari ; 2.01; 4250;occ; 76; 0;38359

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 2; 111.5; 01-JUL-2009 21:58:29; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38360
 3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360
 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360
 8; 2645.5; 01-JUL-2009 22:40:43; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;38360
 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360
 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360
 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360
 12; 3873.5; 01-JUL-2009 23:01:11; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38360
 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
 14; 4426.0; 01-JUL-2009 23:10:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38360
 15; 4684.2; 01-JUL-2009 23:14:41; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38360

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 3; 500.5; 01-JUL-2009 23:45:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38361
 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361
 8; 2645.1; 02-JUL-2009 00:21:18; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;38361
 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361
 10; 3334.3; 02-JUL-2009 00:32:47; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38361
 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361
 14; 4425.9; 02-JUL-2009 00:50:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38361
 15; 4684.8; 02-JUL-2009 00:55:18; Dark ; 38.5; 50; 13Alp Ari ; 2.01; 4250;occ; 77; 0;38361

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 2; -2159.4; 01-JUL-2009 06:15:14; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38350
 3; -1769.4; 01-JUL-2009 06:21:44; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38350
 4; -1610.7; 01-JUL-2009 06:24:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38350
 5; -1354.8; 01-JUL-2009 06:28:39; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38350
 6; -529.8; 01-JUL-2009 06:42:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38350
 7; 102.5; 01-JUL-2009 06:52:56; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38351
 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
 9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351
 10; 781.0; 01-JUL-2009 07:04:15; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38351
 11; 1481.9; 01-JUL-2009 07:15:56; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38351

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 2; 2649.8; 01-JUL-2009 07:35:24; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;38351
 3; 2919.2; 01-JUL-2009 07:39:53; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38351
 4; 3340.9; 01-JUL-2009 07:46:55; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38351
 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351
 6; 3876.3; 01-JUL-2009 07:55:50; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38351
 7; 4266.5; 01-JUL-2009 08:02:20; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38351
 8; 4425.4; 01-JUL-2009 08:04:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38351
 9; 4681.5; 01-JUL-2009 08:09:15; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38351
 10; 5507.0; 01-JUL-2009 08:23:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38351
 11; 6139.1; 01-JUL-2009 08:33:33; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38351
 12; 6527.9; 01-JUL-2009 08:40:02; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
 13; 6643.9; 01-JUL-2009 08:41:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38351
 14; 6817.9; 01-JUL-2009 08:44:52; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38351
 15; 7518.0; 01-JUL-2009 08:56:32; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38351

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 2; -1609.7; 02-JUL-2009 02:31:35; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;38362
 3; -1350.7; 02-JUL-2009 02:35:54; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38362
 4; -519.1; 02-JUL-2009 02:49:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38362
 5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363
 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363
 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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9; 1484.2; 02-JUL-2009 03:23:09; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;38363
10; 2223.5; 02-JUL-2009 03:35:28; Bright; 70.0; 168; 17Zet Aql ; 2.99; 11000;occ; 140; 0;38363
11; 2644.2; 02-JUL-2009 03:42:29; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38363
12; 2909.2; 02-JUL-2009 03:46:54; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38363
13; 3333.0; 02-JUL-2009 03:53:58; Bright; 52.0; 89; 5Alp Cep ; 2.45; 8000;occ; 104; 0;38363
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3; -1770.1; 02-JUL-2009 04:09:31; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38363
4; -1609.7; 02-JUL-2009 04:12:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38363
5; -1350.3; 02-JUL-2009 04:16:30; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38363
6; -518.2; 02-JUL-2009 04:30:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38363
7; 115.7; 02-JUL-2009 04:40:57; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;38364
8; 503.4; 02-JUL-2009 04:47:24; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38364
9; 618.6; 02-JUL-2009 04:49:19; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38364
10; 794.8; 02-JUL-2009 04:52:16; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38364
11; 1484.6; 02-JUL-2009 05:03:45; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38364
12; 2223.0; 02-JUL-2009 05:16:04; Bright; 46.0; 168; 17Zet Aql ; 2.99; 11000;occ; 92; 0;38364
13; 2643.7; 02-JUL-2009 05:23:04; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38364
14; 2908.3; 02-JUL-2009 05:27:29; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38364
15; 3332.3; 02-JUL-2009 05:34:33; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38364
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2; -2163.6; 02-JUL-2009 05:43:33; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38364
3; -1770.4; 02-JUL-2009 05:50:06; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38364
4; -1609.5; 02-JUL-2009 05:52:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38364
5; -1350.0; 02-JUL-2009 05:57:07; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38364
6; -517.2; 02-JUL-2009 06:11:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38364
7; 116.6; 02-JUL-2009 06:21:33; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38365
8; 504.2; 02-JUL-2009 06:28:01; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38365
9; 619.6; 02-JUL-2009 06:29:56; Dark ; 58.0; 31; Alp Gru ; 1.73; 15200;occ; 116; 0;38365
10; 795.8; 02-JUL-2009 06:32:53; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38365
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 7; 546.3; 05-JUL-2009 08:15:04; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38409
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 11; 6200.3; 05-JUL-2009 09:49:18; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;38409
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 4; 3301.0; 05-JUL-2009 12:22:10; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38411
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3; 568.9; 07-JUL-2009 00:29:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38433
4; 677.8; 07-JUL-2009 00:31:37; Dark ; 57.0; 31; Alp Gru ; 1.73; 15200;occ; 114; 0;38433
5; 862.8; 07-JUL-2009 00:34:42; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38433
6; 2192.8; 07-JUL-2009 00:56:52; Bright; 43.0; 168; 17Zet Aql ; 2.99; 11000;occ; 86; 0;38433
7; 2620.9; 07-JUL-2009 01:04:00; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;38433
8; 2854.4; 07-JUL-2009 01:07:54; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38433
9; 3286.6; 07-JUL-2009 01:15:06; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38433
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11; 3849.5; 07-JUL-2009 01:24:29; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;38433
12; 4259.2; 07-JUL-2009 01:31:19; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;38433
13; 4712.1; 07-JUL-2009 01:38:52; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38433
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3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
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5; 863.9; 07-JUL-2009 02:15:19; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38434
6; 2192.5; 07-JUL-2009 02:37:28; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38434
7; 2853.9; 07-JUL-2009 02:48:29; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38434
8; 3286.0; 07-JUL-2009 02:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38434
9; 3736.5; 07-JUL-2009 03:03:12; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38434
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6; 191.5; 07-JUL-2009 03:44:43; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38435
7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
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3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
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5; -1015.7; 07-JUL-2009 05:05:12; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38435
6; -446.5; 07-JUL-2009 05:14:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38435
7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
13; 3284.9; 07-JUL-2009 06:16:52; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38436
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3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
6; 3845.2; 07-JUL-2009 21:31:36; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38445
7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
10; 5025.5; 07-JUL-2009 21:51:16; Dark ; 41.0; 94; 92Alp Cet ; 2.53; 3100;occ; 82; 0;38445

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 3; 580.5; 07-JUL-2009 22:17:47; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38446
 4; 688.6; 07-JUL-2009 22:19:35; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38446
 5; 875.0; 07-JUL-2009 22:22:42; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38446
 6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446
 7; 2845.2; 07-JUL-2009 22:55:32; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38446
 8; 3278.4; 07-JUL-2009 23:02:45; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38446
 9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446
 10; 3844.7; 07-JUL-2009 23:12:11; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38446
 11; 4257.7; 07-JUL-2009 23:19:04; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38446
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 13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446
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 3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447
 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447
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 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447
 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447
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 3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436
 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436
 6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436
 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436
 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437
 10; 681.3; 07-JUL-2009 07:14:05; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38437
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 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437
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 11; 6230.7; 07-JUL-2009 08:46:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38437
 12; 6609.2; 07-JUL-2009 08:52:53; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38437
 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437
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 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438
 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438
 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438
 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438


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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
14; 6904.6; 07-JUL-2009 10:38:24; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38438
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
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4; 3251.7; 10-JUL-2009 21:27:27; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38488
5; 3703.1; 10-JUL-2009 21:34:59; Bright; 60.5; 74; 11Bet Cas ; 2.27; 6600;occ; 121; 0;38488
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5; 3832.1; 10-JUL-2009 08:12:20; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38480
6; 4253.2; 10-JUL-2009 08:19:21; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38480
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4; 3707.5; 10-JUL-2009 09:50:52; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38481
5; 3831.6; 10-JUL-2009 09:52:56; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38481
6; 4253.3; 10-JUL-2009 09:59:57; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;38481
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 4; -1914.3; 15-JUL-2009 03:58:29; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38549
 5; -1738.6; 15-JUL-2009 04:01:25; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38549
 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549
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 13; 5468.3; 17-JUL-2009 10:00:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38581
 14; 6393.4; 17-JUL-2009 10:15:30; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38581
 15; 6734.2; 17-JUL-2009 10:21:11; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;38581
 16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581
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 3; 2899.5; 17-JUL-2009 10:57:52; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38582
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 5; 3639.4; 17-JUL-2009 11:10:12; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38582
 6; 3756.2; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582
 7; 4035.4; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582
 8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
 9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582
 10; 4473.1; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582
 11; 4629.6; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582
 12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582
 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582
 15; 6735.0; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38582
 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582
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 3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582
 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
 5;-1739.8; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582
 6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582
 7;-1406.3; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582
 8; -918.2; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582
 9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583
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 2; 2765.4; 17-JUL-2009 12:36:14; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38583
 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583
 4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583
 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 2; 2764.9; 17-JUL-2009 14:16:50; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38584
 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585
 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585
 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586
 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586
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 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586
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 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586
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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591
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 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591
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 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
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4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
8; -556.8; 18-JUL-2009 04:26:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38592
9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
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11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
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16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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 2; -445.9; 25-JUL-2009 00:47:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38690
 3; -114.0; 25-JUL-2009 00:52:55; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;38690
 4; 482.7; 25-JUL-2009 01:02:52; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38691
 5; 863.3; 25-JUL-2009 01:09:12; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38691
 6; 1055.5; 25-JUL-2009 01:12:24; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38691
 7; 2071.3; 25-JUL-2009 01:29:20; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38691
 8; 2642.9; 25-JUL-2009 01:38:52; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38691
 9; 2821.3; 25-JUL-2009 01:41:50; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;38691
 10; 3137.5; 25-JUL-2009 01:47:06; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38691
 11; 3558.4; 25-JUL-2009 01:54:07; Bright; 53.5; 74; 11Bet Cas ; 2.27; 6600;occ; 107; 0;38691
 12; 3662.6; 25-JUL-2009 01:55:51; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38691
 13; 4010.7; 25-JUL-2009 02:01:40; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38691
 14; 4101.7; 25-JUL-2009 02:03:11; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38691
 15; 4288.7; 25-JUL-2009 02:06:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38691
 16; 4487.6; 25-JUL-2009 02:09:37; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38691
 17; 4659.6; 25-JUL-2009 02:12:28; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38691
 18; 4754.9; 25-JUL-2009 02:14:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;38691

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 3; -113.2; 25-JUL-2009 02:33:32; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38691
 4; 483.9; 25-JUL-2009 02:43:29; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38692
 5; 863.9; 25-JUL-2009 02:49:49; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38692
 6; 1056.2; 25-JUL-2009 02:53:01; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38692
 7; 2071.2; 25-JUL-2009 03:09:56; Bright; 42.5; 11; 53Alp Aql ; 0.76; 8000;occ; 85; 0;38692
 8; 2642.2; 25-JUL-2009 03:19:27; Bright; 47.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 95; 0;38692
 9; 2820.6; 25-JUL-2009 03:22:25; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38692
 10; 3137.2; 25-JUL-2009 03:27:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38692
 11; 3557.6; 25-JUL-2009 03:34:42; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;38692

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 2; -2374.0; 25-JUL-2009 03:36:27; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38692
 3; -2025.6; 25-JUL-2009 03:42:15; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38692
 4; -1934.5; 25-JUL-2009 03:43:46; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38692
 5; -1747.5; 25-JUL-2009 03:46:53; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38692
 6; -1548.3; 25-JUL-2009 03:50:12; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38692
 7; -1376.1; 25-JUL-2009 03:53:05; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38692
 8; -1280.9; 25-JUL-2009 03:54:40; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38692
 9; -670.6; 25-JUL-2009 04:04:50; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38692
 10; -443.3; 25-JUL-2009 04:08:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38692
 11; -112.3; 25-JUL-2009 04:14:08; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38692
 12; 484.9; 25-JUL-2009 04:24:06; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38693
 13; 864.4; 25-JUL-2009 04:30:25; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38693
 14; 1056.7; 25-JUL-2009 04:33:37; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38693
 15; 2070.9; 25-JUL-2009 04:50:32; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;38693
 16; 2641.4; 25-JUL-2009 05:00:02; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38693
 17; 2820.1; 25-JUL-2009 05:03:01; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38693
 18; 3136.6; 25-JUL-2009 05:08:17; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38693
 19; 3556.8; 25-JUL-2009 05:15:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38693

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 3; -1934.8; 25-JUL-2009 05:24:22; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38693
 4; -1747.4; 25-JUL-2009 05:27:29; Bright; 51.5; 79; 26Bet Per ; 2.31; 13100;occ; 103; 0;38693
 5; -1548.2; 25-JUL-2009 05:30:49; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38693
 6; -1375.9; 25-JUL-2009 05:33:41; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38693
 7; -1280.4; 25-JUL-2009 05:35:16; Dark ; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;38693
 8; -669.7; 25-JUL-2009 05:45:27; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38693
 9; -442.0; 25-JUL-2009 05:49:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38693
 10; -111.5; 25-JUL-2009 05:54:45; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38693
 11; 486.1; 25-JUL-2009 06:04:43; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38694
 12; 865.1; 25-JUL-2009 06:11:02; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38694
 13; 1057.3; 25-JUL-2009 06:14:14; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38694
 14; 2070.9; 25-JUL-2009 06:31:08; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38694
 15; 2640.6; 25-JUL-2009 06:40:37; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38694
 16; 2819.3; 25-JUL-2009 06:43:36; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38694


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17; 3136.1; 25-JUL-2009 06:48:53; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38694
18; 3556.0; 25-JUL-2009 06:55:53; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38694
19; 3660.7; 25-JUL-2009 06:57:37; Bright; 6.5; 76; 27Gam Cas ; 2.30; 30000;occ; 13; 0;38694
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2; 2069.5; 25-JUL-2009 19:55:54; Bright; 58.0; 11; 53Alp Aql ; 0.76; 8000;occ; 116; 0;38702
3; 2634.7; 25-JUL-2009 20:05:19; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38702
4; 2814.4; 25-JUL-2009 20:08:19; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38702
5; 3131.8; 25-JUL-2009 20:13:36; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38702
6; 3549.6; 25-JUL-2009 20:20:34; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38702
7; 3655.5; 25-JUL-2009 20:22:20; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;38702
8; 4007.6; 25-JUL-2009 20:28:12; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38702
9; 4099.4; 25-JUL-2009 20:29:44; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38702
10; 4287.5; 25-JUL-2009 20:32:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38702
11; 4489.2; 25-JUL-2009 20:36:13; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38702
12; 4663.1; 25-JUL-2009 20:39:07; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38702
13; 4758.1; 25-JUL-2009 20:40:42; Dark ; 43.5; 13; 87Alp Tau ; 0.87; 3800;occ; 87; 0;38702
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3; -103.8; 25-JUL-2009 21:00:16; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38702
4; 496.1; 25-JUL-2009 21:10:16; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38703
5; 870.6; 25-JUL-2009 21:16:31; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38703
6; 1062.3; 25-JUL-2009 21:19:43; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38703
7; 2069.2; 25-JUL-2009 21:36:29; Bright; 41.0; 11; 53Alp Aql ; 0.76; 8000;occ; 82; 0;38703
8; 2634.0; 25-JUL-2009 21:45:54; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38703
9; 2813.7; 25-JUL-2009 21:48:54; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38703
10; 3131.4; 25-JUL-2009 21:54:12; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38703
11; 3549.0; 25-JUL-2009 22:01:09; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38703
12; 3654.9; 25-JUL-2009 22:02:55; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38703
13; 4007.3; 25-JUL-2009 22:08:47; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38703
14; 4099.2; 25-JUL-2009 22:10:19; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38703
15; 4287.2; 25-JUL-2009 22:13:27; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38703
16; 4489.1; 25-JUL-2009 22:16:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38703
17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703
18; 4758.6; 25-JUL-2009 22:21:19; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;38703
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3; -103.1; 25-JUL-2009 22:40:53; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38703
4; 497.3; 25-JUL-2009 22:50:53; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38704
5; 871.0; 25-JUL-2009 22:57:07; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38704
6; 1062.8; 25-JUL-2009 23:00:19; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38704
7; 2069.1; 25-JUL-2009 23:17:05; Bright; 41.5; 11; 53Alp Aql ; 0.76; 8000;occ; 83; 0;38704
8; 2633.3; 25-JUL-2009 23:26:29; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38704
9; 2813.1; 25-JUL-2009 23:29:29; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38704
10; 3131.0; 25-JUL-2009 23:34:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38704
11; 3548.1; 25-JUL-2009 23:41:44; Bright; 73.5; 74; 11Bet Cas ; 2.27; 6600;occ; 147; 0;38704
12; 3654.3; 25-JUL-2009 23:43:30; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;38704
13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
14; 4098.9; 25-JUL-2009 23:50:55; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38704
15; 4287.2; 25-JUL-2009 23:54:03; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38704
16; 4489.3; 25-JUL-2009 23:57:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38704
17; 4663.7; 26-JUL-2009 00:00:20; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38704
18; 4758.9; 26-JUL-2009 00:01:55; Dark ; 45.0; 13; 87Alp Tau ; 0.87; 3800;occ; 90; 0;38704
19; 5374.0; 26-JUL-2009 00:12:10; Dark ; 21.5; 165; 34Gam Eri ; 2.95; 3200;occ; 43; 0;38704
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2; -2026.0; 25-JUL-2009 07:03:27; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38694
3; -1934.8; 25-JUL-2009 07:04:58; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38694
4; -1747.6; 25-JUL-2009 07:08:05; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38694
5; -1548.2; 25-JUL-2009 07:11:25; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38694
6; -1375.6; 25-JUL-2009 07:14:17; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38694
7; -1280.1; 25-JUL-2009 07:15:53; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38694
8; -669.3; 25-JUL-2009 07:26:03; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38694
9; -440.7; 25-JUL-2009 07:29:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38694
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13; 1057.8; 25-JUL-2009 07:54:50; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38695
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3; 2818.8; 25-JUL-2009 08:24:12; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38695
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9; 4288.3; 25-JUL-2009 08:48:41; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38695
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13; 5367.4; 25-JUL-2009 09:06:40; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38695
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15; 5926.0; 25-JUL-2009 09:15:59; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38695
16; 6524.3; 25-JUL-2009 09:25:57; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38695
17; 6902.2; 25-JUL-2009 09:32:15; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38695
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7; 4009.2; 25-JUL-2009 10:24:38; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38696
8; 4100.7; 25-JUL-2009 10:26:09; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38696
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11; 4661.0; 25-JUL-2009 10:35:30; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38696
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13; 5368.1; 25-JUL-2009 10:47:17; Dark ; 46.0; 165; 34Gam Eri ; 2.95; 3200;occ; 92; 0;38696
14; 5597.8; 25-JUL-2009 10:51:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38696
15; 5926.8; 25-JUL-2009 10:56:35; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38696
16; 6525.4; 25-JUL-2009 11:06:34; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38696
17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
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5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38697
7; 4009.0; 25-JUL-2009 12:05:13; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38697
8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
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11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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15; 5927.7; 25-JUL-2009 12:37:12; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38697
16; 6526.5; 25-JUL-2009 12:47:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38697
17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
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 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
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 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
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 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700
 17; 6905.3; 25-JUL-2009 17:55:18; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38700

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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701
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 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
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11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
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5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
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7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
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9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
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 5; 3506.6; 29-JUL-2009 16:32:47; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38757
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