

# GOMOS Daily Report 04-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	08JUL2009 04:47:28
Data source version	GOMOS/5.00
Start time of products	04JUL2009 04:39:23
Stop time of products	04JUL2009 23:56:53
Store outputs in DB	Yes
Nb of level 1b prods	42
Nb of prods with errors	1

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

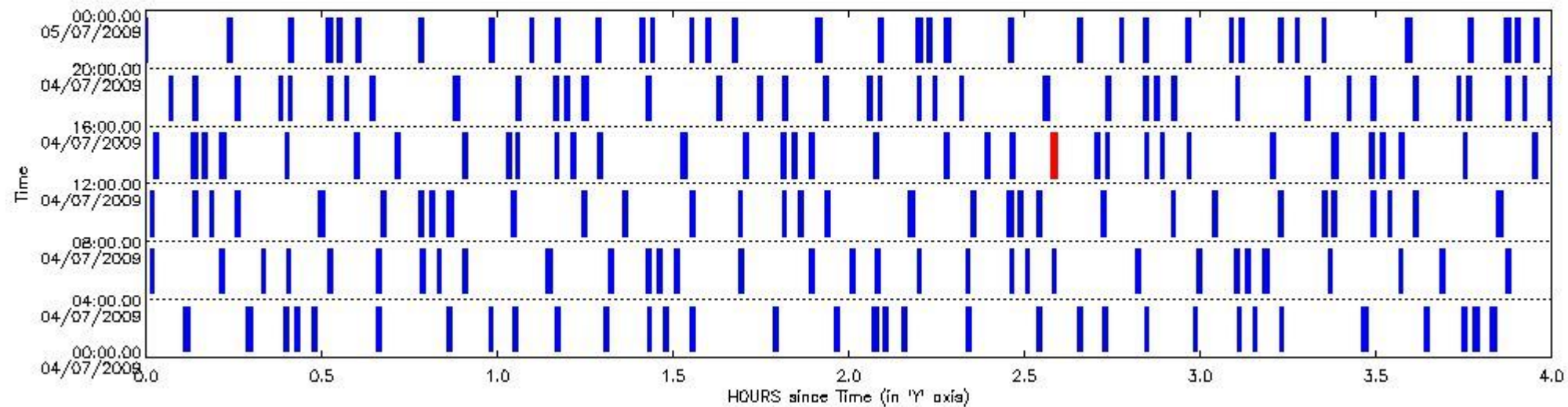
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

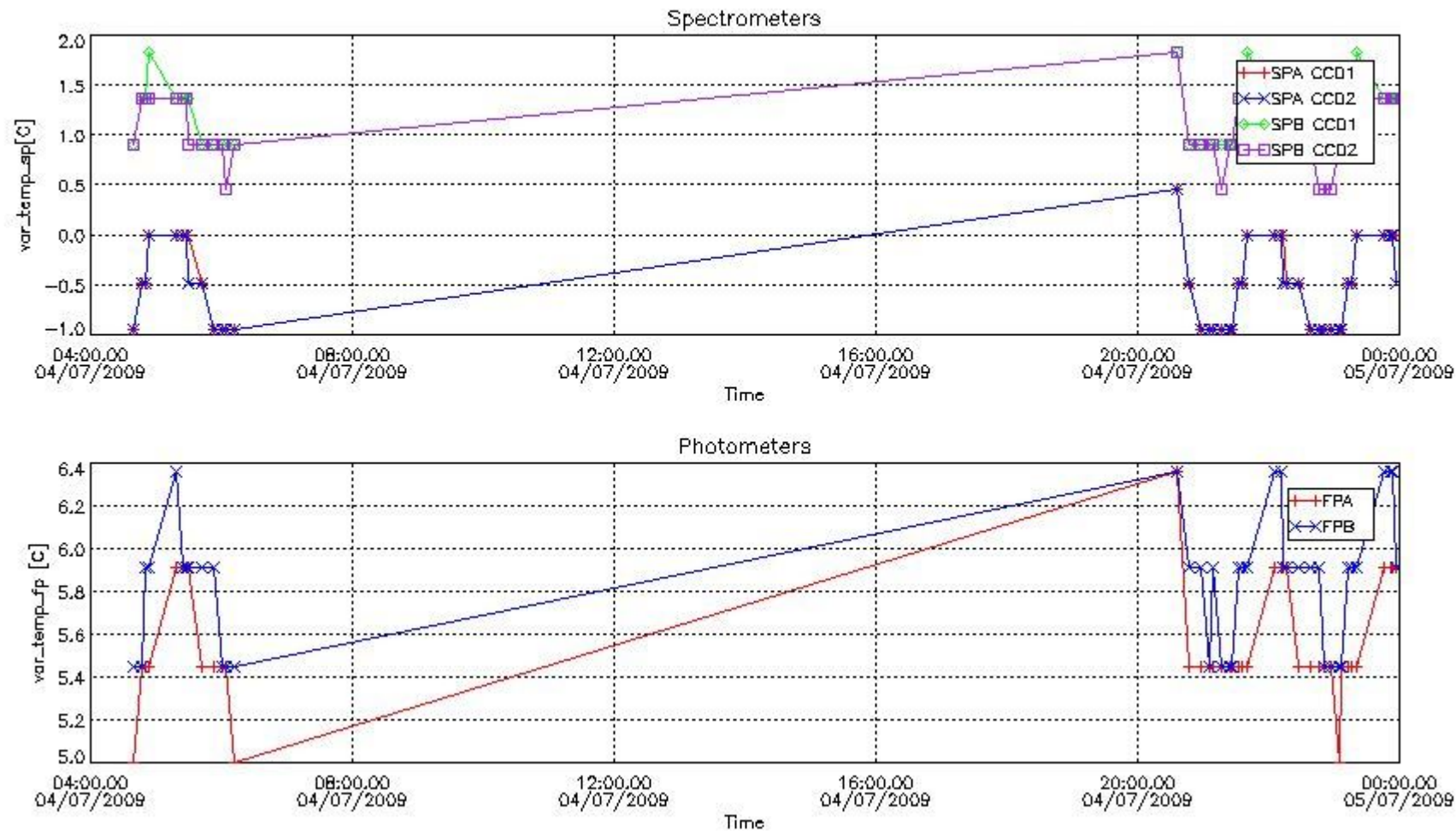
UTC start time	Star name	Star ID	Orbit
04-JUL-2009 14:34:31	5AlpCep	89	38398

### 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_1PNPDE20090704_043923_000000392080_00262_38392_3341.N1	04-JUL-2009 04:39:23	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	38392	No
2	GOM_TRA_1PNPDE20090704_044650_000000392080_00262_38392_3342.N1	04-JUL-2009 04:46:50	Bright	38.500	73	57Gam1And	2.2600	13100.	77	38392	No
3	GOM_TRA_1PNPDE20090704_044935_000000372080_00262_38392_3343.N1	04-JUL-2009 04:49:35	Twilight_and_stray	37.000	173	4Bet Tri	3.0040	8900.0	74	38392	No
4	GOM_TRA_1PNPDE20090704_045403_000000432080_00262_38392_3344.N1	04-JUL-2009 04:54:03	Dark	42.500	50	13Alp Ari	2.0070	4250.0	85	38392	No
5	GOM_TRA_1PNPDE20090704_051849_000000492080_00263_38393_3345.N1	04-JUL-2009 05:18:49	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	38393	No
6	GOM_TRA_1PNPDE20090704_052513_000000522080_00263_38393_3346.N1	04-JUL-2009 05:25:13	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	38393	No
7	GOM_TRA_1PNPDE20090704_052707_000000502080_00263_38393_3347.N1	04-JUL-2009 05:27:07	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38393	No
8	GOM_TRA_1PNPDE20090704_053007_000000552080_00263_38393_3348.N1	04-JUL-2009 05:30:07	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38393	No
9	GOM_TRA_1PNPDE20090704_054112_000000452080_00263_38393_3349.N1	04-JUL-2009 05:41:12	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	38393	No
10	GOM_TRA_1PNPDE20090704_055312_000000452080_00263_38393_3350.N1	04-JUL-2009 05:53:12	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38393	No

11	GOM_TRA_1PNPDE20090704_060014_000000452080_00263_38393_3351.N1	04-JUL-2009 06:00:14	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	38393	No
12	GOM_TRA_1PNPDE20090704_060427_000000482080_00263_38393_3352.N1	04-JUL-2009 06:04:27	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	38393	No
13	GOM_TRA_1PNPDE20090704_061136_000000422080_00263_38393_3353.N1	04-JUL-2009 06:11:36	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38393	No
14	GOM_TRA_1PNPDE20090704_203539_000000552080_00272_38402_6465.N1	04-JUL-2009 20:35:39	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38402	Yes
15	GOM_TRA_1PNPDE20090704_204637_000000412080_00272_38402_6466.N1	04-JUL-2009 20:46:37	Bright	41.000	155	41Pi Sgr	2.9000	6600.0	82	38402	No
16	GOM_TRA_1PNPDE20090704_205831_000000442080_00272_38402_6467.N1	04-JUL-2009 20:58:31	Bright	44.000	168	17Zet Aql	2.9860	11000.	88	38402	No
17	GOM_TRA_1PNPDE20090704_210534_000000382080_00272_38402_6468.N1	04-JUL-2009 21:05:34	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	38402	No
18	GOM_TRA_1PNPDE20090704_210944_000000492080_00272_38402_6469.N1	04-JUL-2009 21:09:44	Bright	49.000	144	18Del Cyg	2.8600	11000.	98	38402	No
19	GOM_TRA_1PNPDE20090704_211653_000000412080_00272_38402_6470.N1	04-JUL-2009 21:16:53	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38402	No
20	GOM_TRA_1PNPDE20090704_212421_000000422080_00272_38402_6471.N1	04-JUL-2009 21:24:21	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	38402	No
21	GOM_TRA_1PNPDE20090704_212606_000000372080_00272_38402_6472.N1	04-JUL-2009 21:26:06	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	38402	No
22	GOM_TRA_1PNPDE20090704_213248_000000382080_00272_38402_6473.N1	04-JUL-2009 21:32:48	Bright	37.500	73	57Gam1And	2.2600	13100.	75	38402	No
23	GOM_TRA_1PNPDE20090704_213535_000000382080_00272_38402_6474.N1	04-JUL-2009 21:35:35	Twilight_stray	38.000	173	4Bet Tri	3.0040	8900.0	76	38402	No
24	GOM_TRA_1PNPDE20090704_214006_000000422080_00272_38402_6475.N1	04-JUL-2009 21:40:06	Dark	41.500	50	13Alp Ari	2.0070	4250.0	83	38402	No
25	GOM_TRA_1PNPDE20090704_220458_000000522080_00273_38403_4413.N1	04-JUL-2009 22:04:58	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38403	No
26	GOM_TRA_1PNPDE20090704_221123_000000652080_00273_38403_4414.N1	04-JUL-2009 22:11:23	Straylight	64.500	63	Bet Gru	2.1500	2800.0	129	38403	No
27	GOM_TRA_1PNPDE20090704_221315_000000492080_00273_38403_4415.N1	04-JUL-2009 22:13:15	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	38403	No
28	GOM_TRA_1PNPDE20090704_221616_000000562080_00273_38403_4416.N1	04-JUL-2009 22:16:16	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38403	No
29	GOM_TRA_1PNPDE20090704_222713_000000422080_00273_38403_4417.N1	04-JUL-2009 22:27:13	Bright	41.500	155	41Pi Sgr	2.9000	6600.0	83	38403	No
30	GOM_TRA_1PNPDE20090704_223907_000000472080_00273_38403_4418.N1	04-JUL-2009 22:39:07	Bright	47.000	168	17Zet Aql	2.9860	11000.	94	38403	No
31	GOM_TRA_1PNPDE20090704_224609_000000402080_00273_38403_4419.N1	04-JUL-2009 22:46:09	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	38403	No
32	GOM_TRA_1PNPDE20090704_225019_000000482080_00273_38403_4420.N1	04-JUL-2009 22:50:19	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	38403	No
33	GOM_TRA_1PNPDE20090704_225728_000000432080_00273_38403_4421.N1	04-JUL-2009 22:57:28	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38403	No
34	GOM_TRA_1PNPDE20090704_230457_000000422080_00273_38403_4422.N1	04-JUL-2009 23:04:57	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	38403	No
35	GOM_TRA_1PNPDE20090704_230642_000000372080_00273_38403_4423.N1	04-JUL-2009 23:06:42	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	38403	No
36	GOM_TRA_1PNPDE20090704_231324_000000382080_00273_38403_4424.N1	04-JUL-2009 23:13:24	Bright	37.500	73	57Gam1And	2.2600	13100.	75	38403	No
37	GOM_TRA_1PNPDE20090704_231611_000000392080_00273_38403_4425.N1	04-JUL-2009 23:16:11	Twilight_stray	38.500	173	4Bet Tri	3.0040	8900.0	77	38403	No
38	GOM_TRA_1PNPDE20090704_232042_000000422080_00273_38403_4426.N1	04-JUL-2009 23:20:42	Dark	42.000	50	13Alp Ari	2.0070	4250.0	84	38403	No
39	GOM_TRA_1PNPDE20090704_234536_000000502080_00274_38404_4418.N1	04-JUL-2009 23:45:36	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	38404	No
40	GOM_TRA_1PNPDE20090704_235159_000000522080_00274_38404_4419.N1	04-JUL-2009 23:51:59	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	38404	No
41	GOM_TRA_1PNPDE20090704_235351_000000492080_00274_38404_4420.N1	04-JUL-2009 23:53:51	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	38404	No
42	GOM_TRA_1PNPDE20090704_235653_000000582080_00274_38404_4421.N1	04-JUL-2009 23:56:53	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	38404	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).

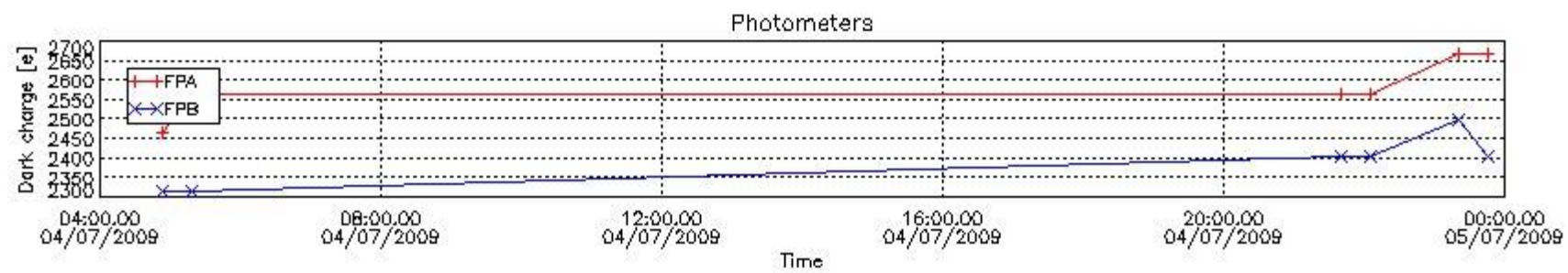
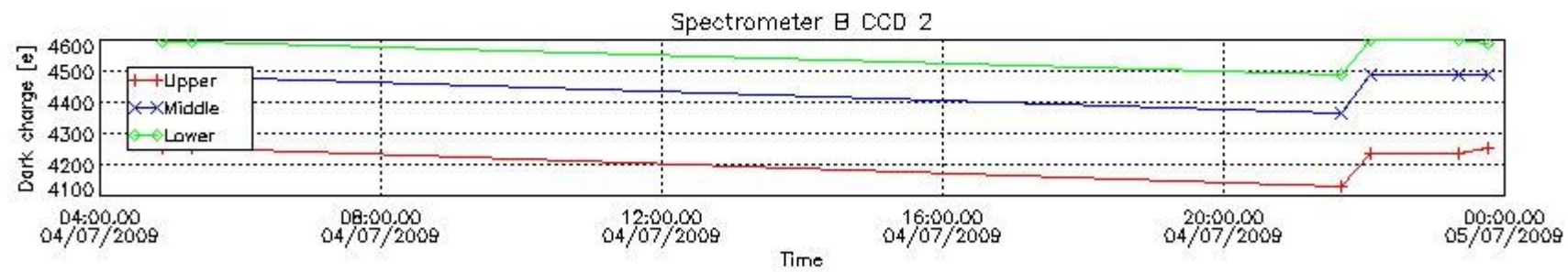
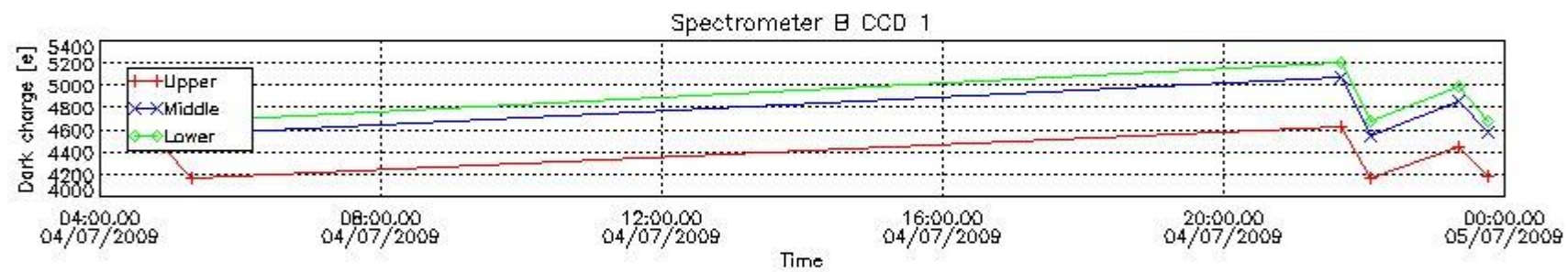
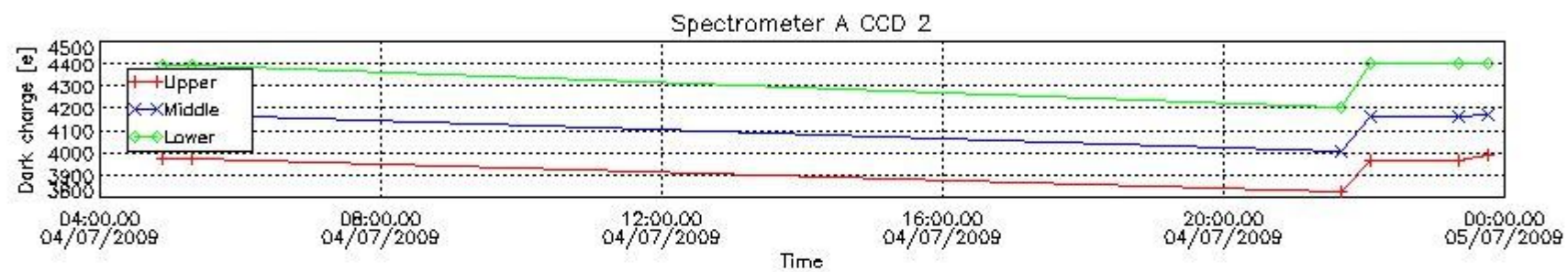
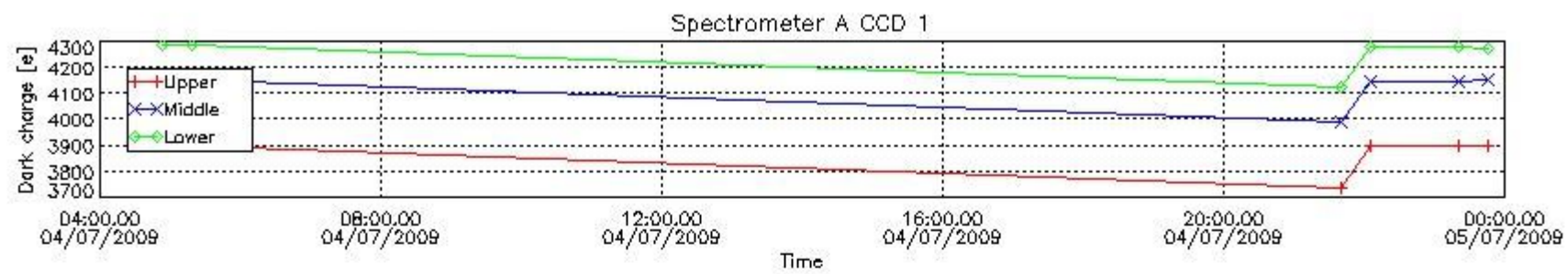
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090704_203539_000000552080_00272_38402_6465.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090704_204637_000000412080_00272_38402_6466.N1	DC map used
GOM_TRA_1PNPDE20090704_205831_000000442080_00272_38402_6467.N1	DC map used
GOM_TRA_1PNPDE20090704_210534_000000382080_00272_38402_6468.N1	DC map used
GOM_TRA_1PNPDE20090704_210944_000000492080_00272_38402_6469.N1	DC map used
GOM_TRA_1PNPDE20090704_211653_000000412080_00272_38402_6470.N1	DC map used
GOM_TRA_1PNPDE20090704_212421_000000422080_00272_38402_6471.N1	DC map used
GOM_TRA_1PNPDE20090704_212606_000000372080_00272_38402_6472.N1	DC map used
GOM_TRA_1PNPDE20090704_213248_000000382080_00272_38402_6473.N1	DC map used
GOM_TRA_1PNPDE20090704_213535_000000382080_00272_38402_6474.N1	DC map used
GOM_TRA_1PNPDE20090704_214006_000000422080_00272_38402_6475.N1	DC map used

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





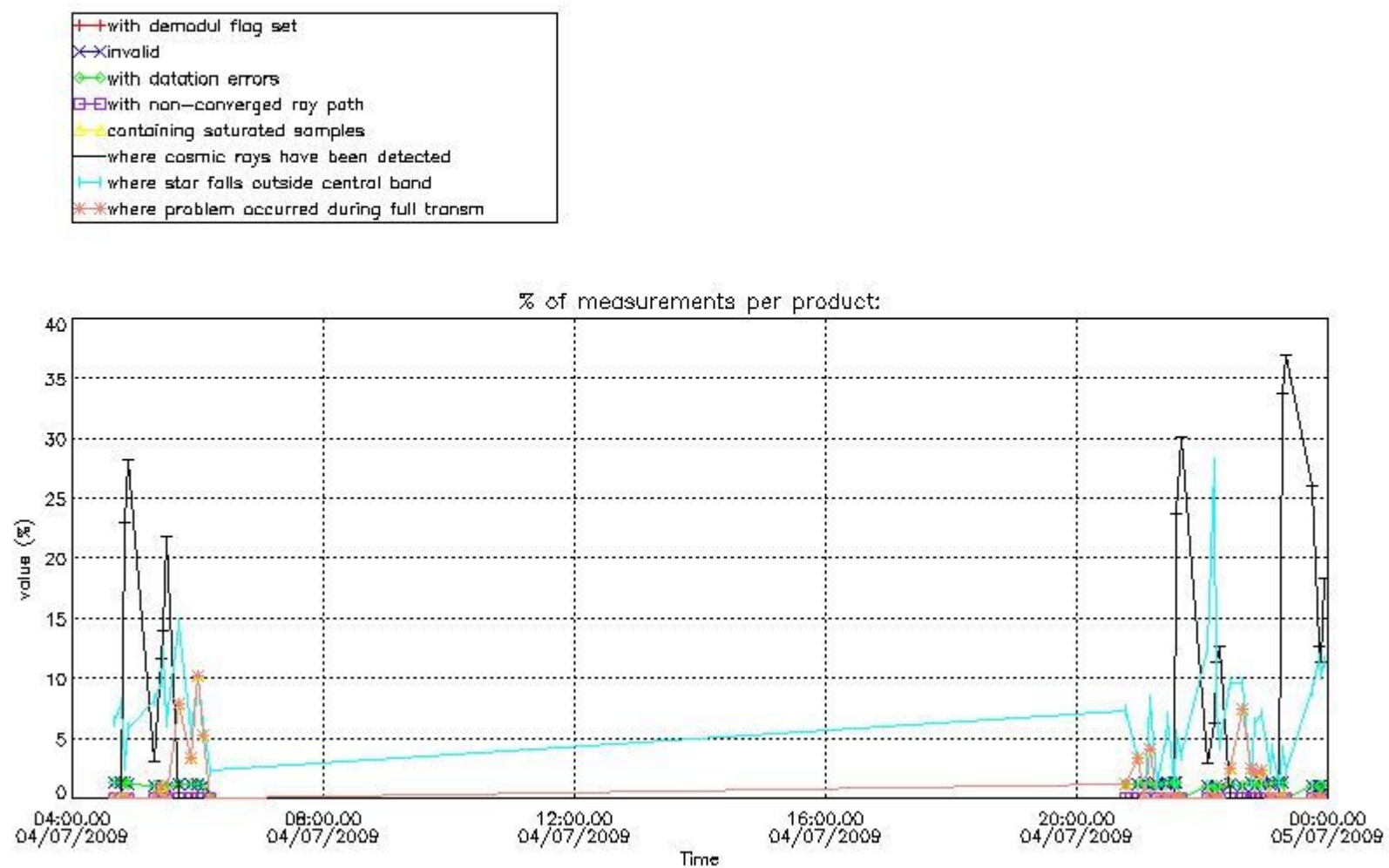
## 5. Demodulation flag and quality information monitoring

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:

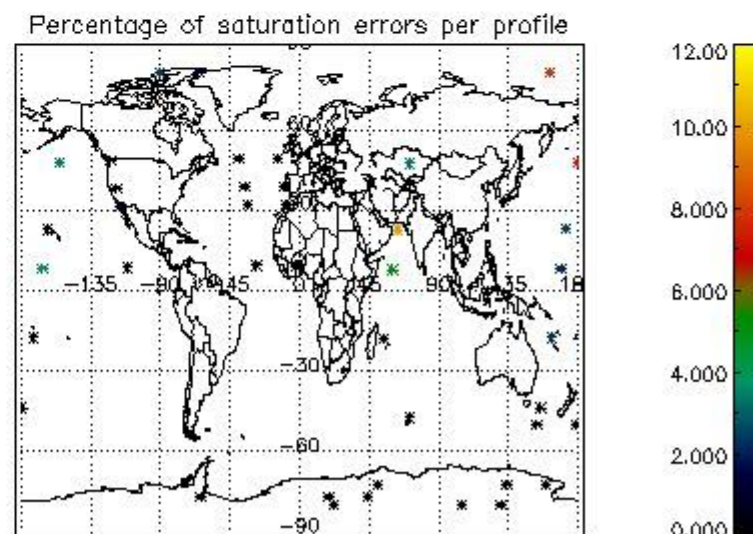
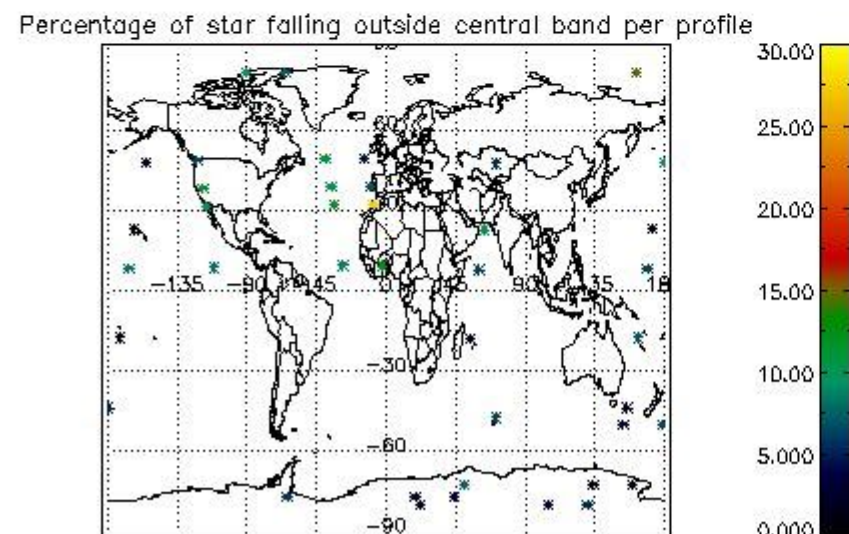
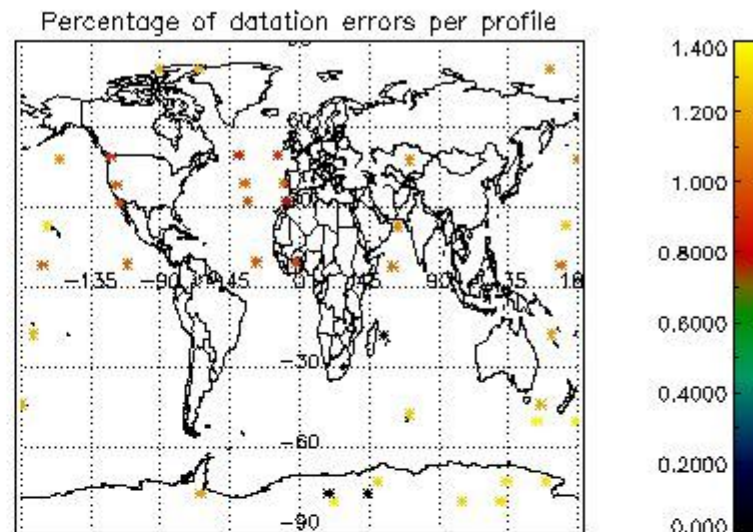
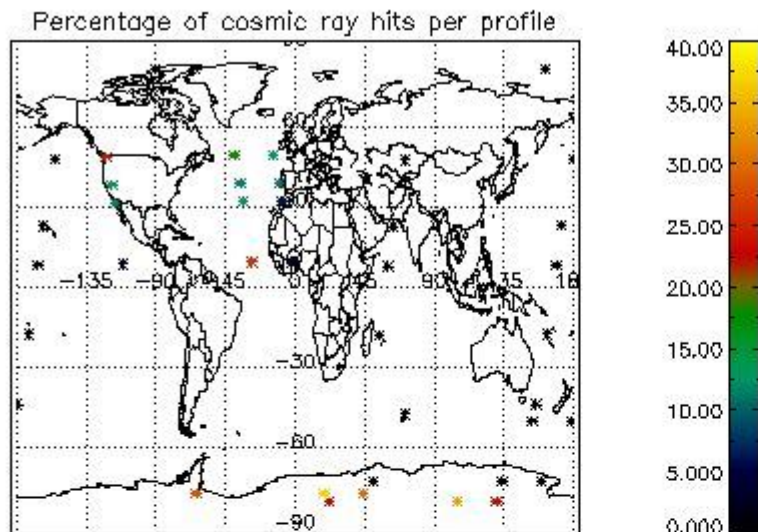
At least one measurement with demodulation flag set:	26.8293 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





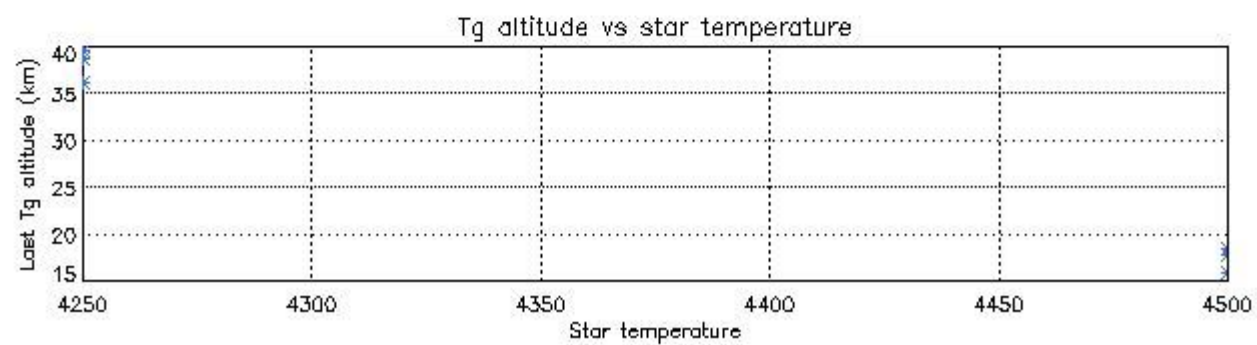
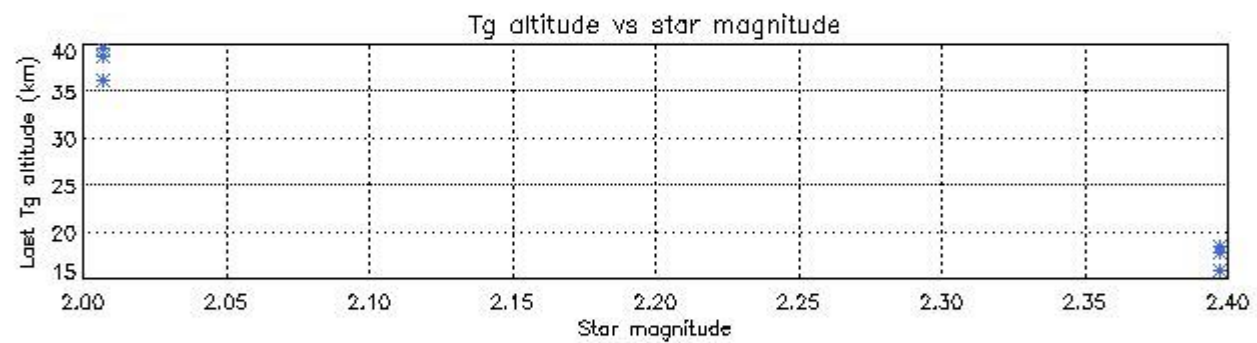
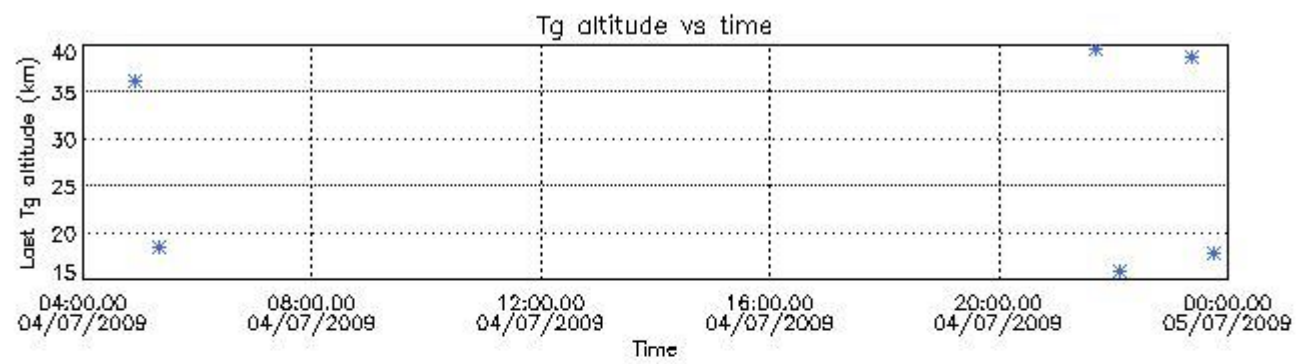
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	27.792	26.606	NaN
St. deviation:	11.451	7.2577	NaN
Maximum:	39.674	39.670	NaN
Minimum:	15.956	16.102	NaN
Number of data:	6.0000	23.000	NaN

### 6.2 Plot for DARK limb products

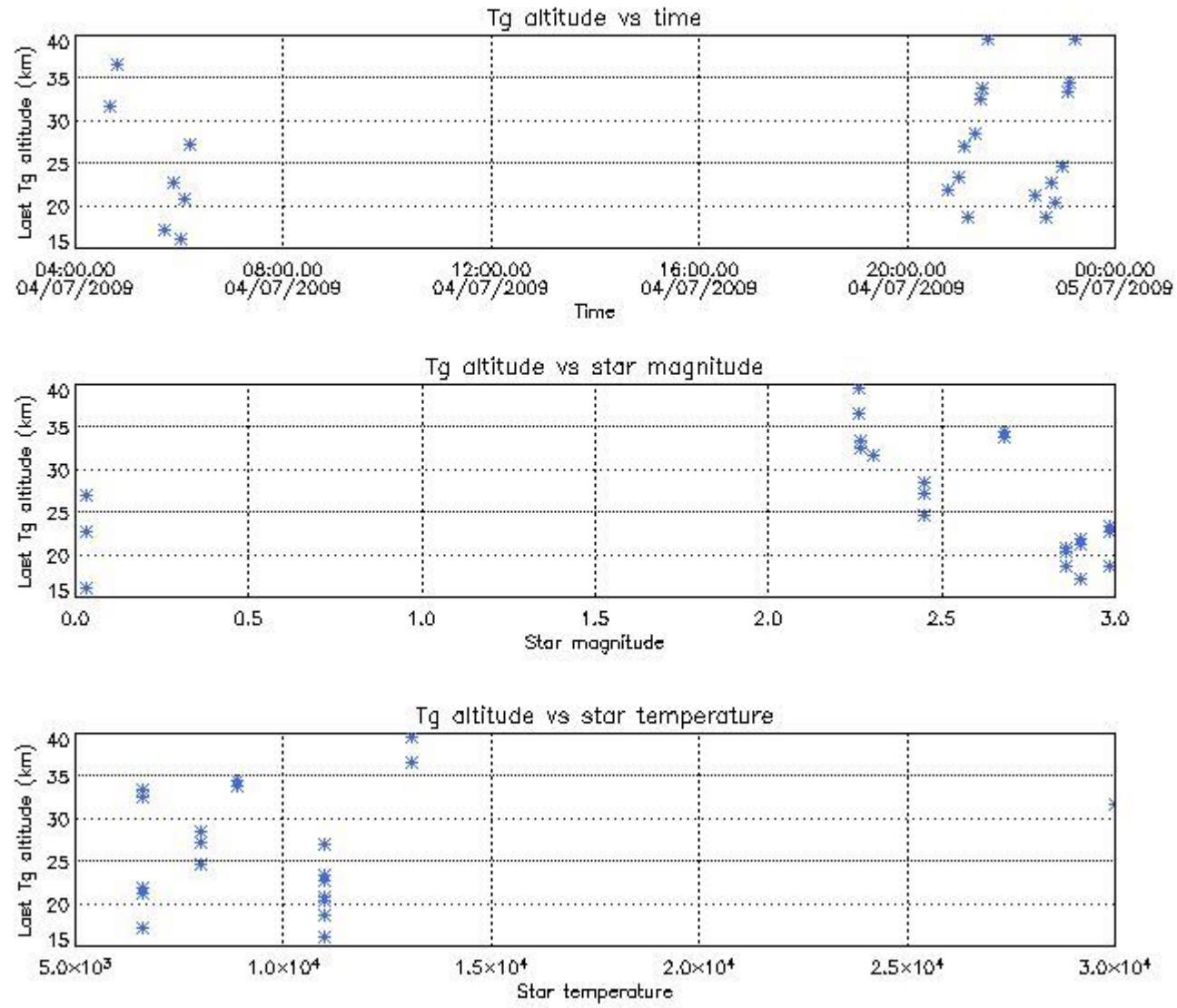
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

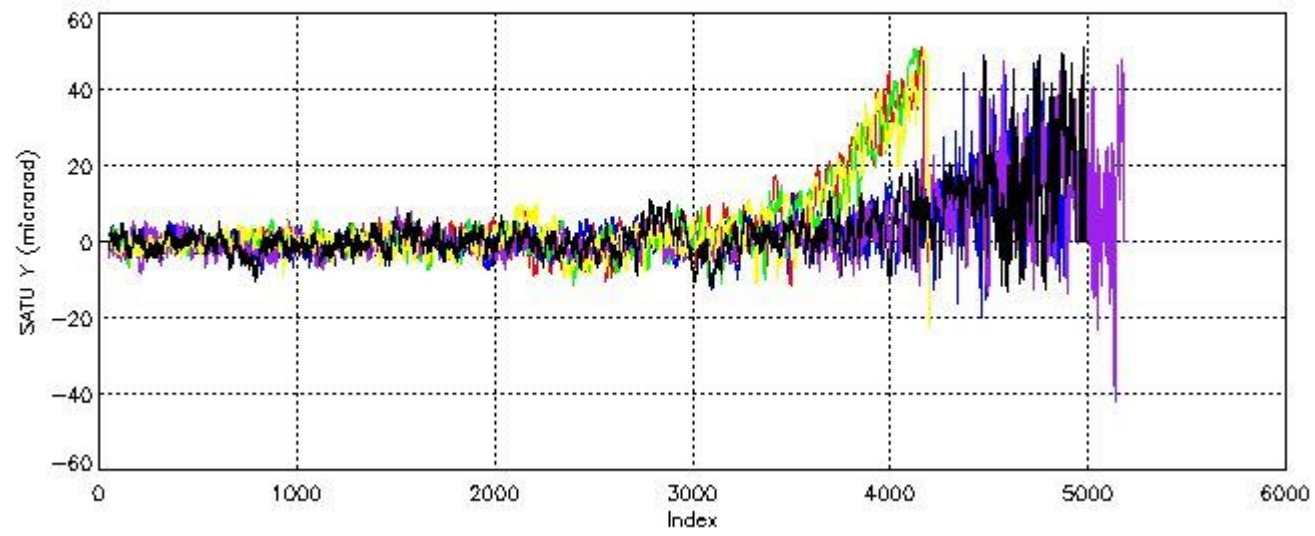
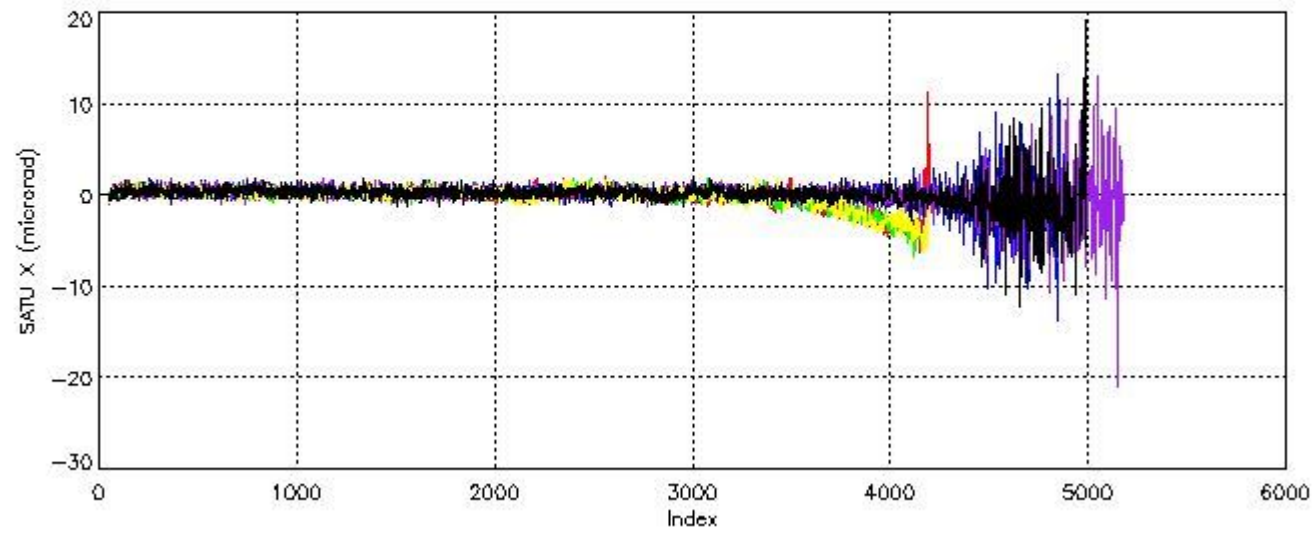


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.35972	-0.64397	0.28919	-0.70149
St. deviation:	0.39241	2.0732	1.0014	2.8702
Maximum:	1.8000	5.9000	8.1000	10.400
Minimum:	-1.1000	-10.600	-5.3000	-14.000

Number of data:	7200.0	7200.0	23950.	23950.
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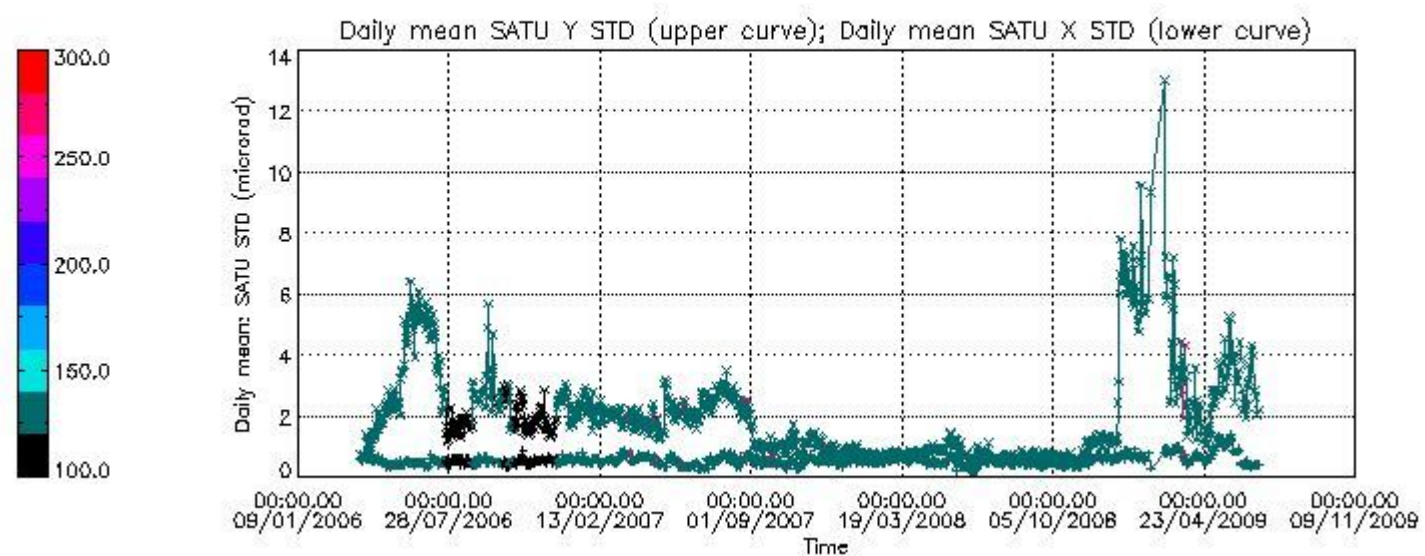
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

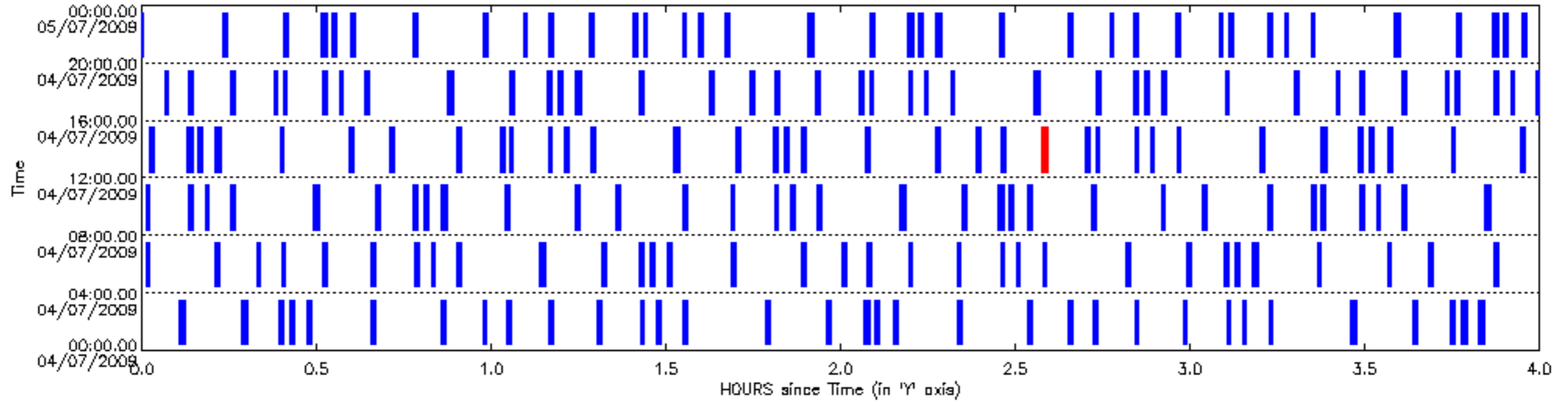


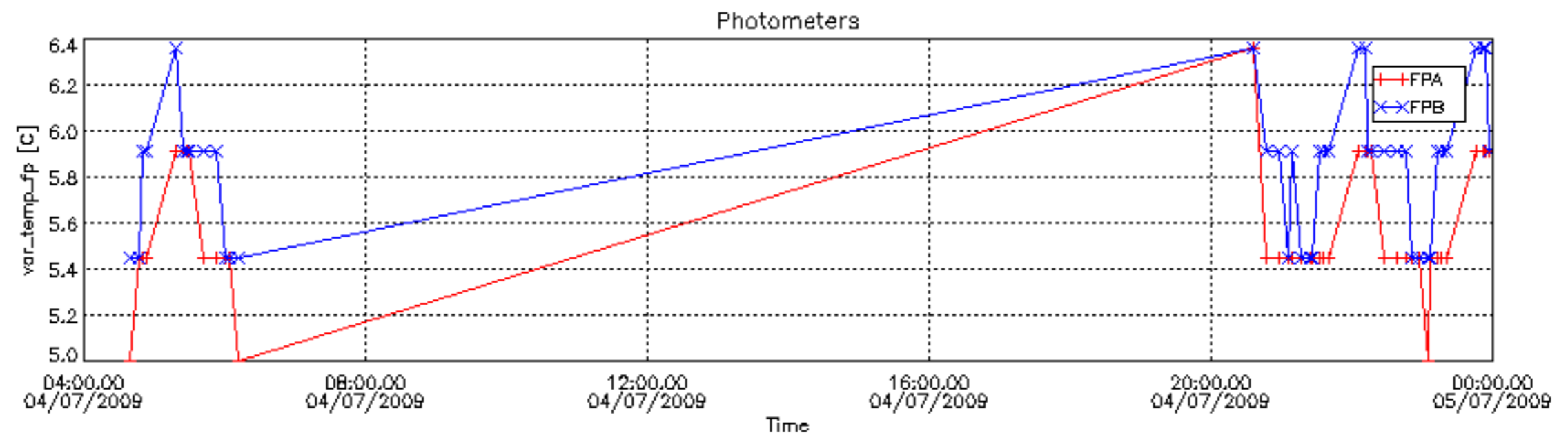
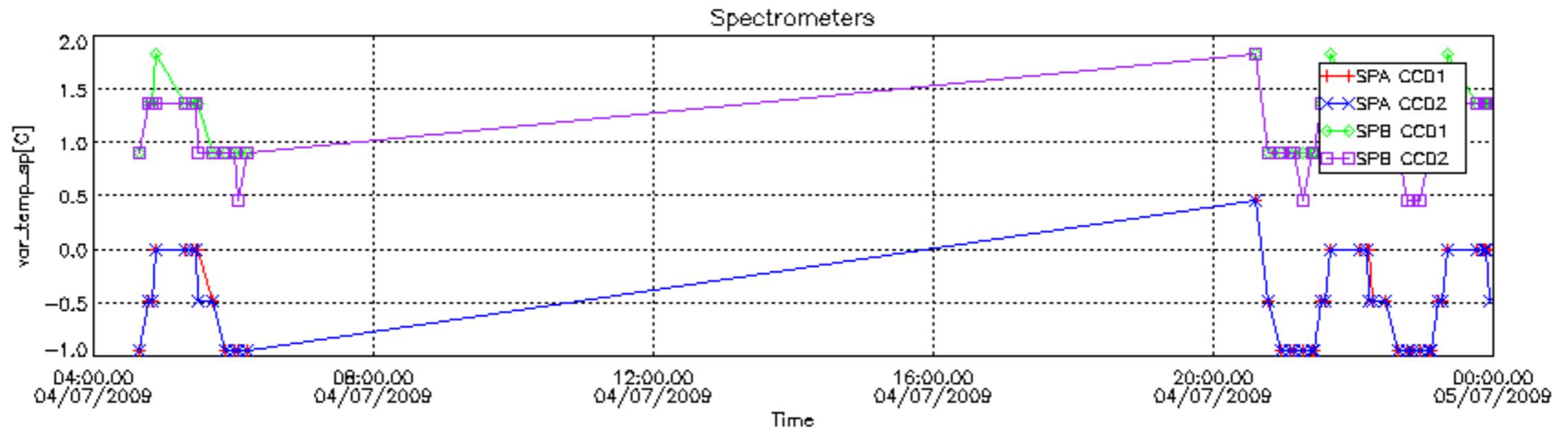
### 8. Auxiliary Data Files used for the production reported in section 2.4

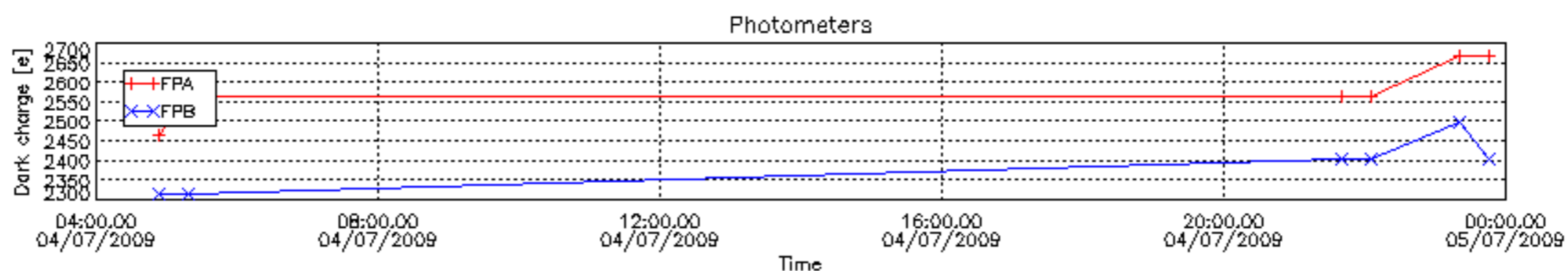
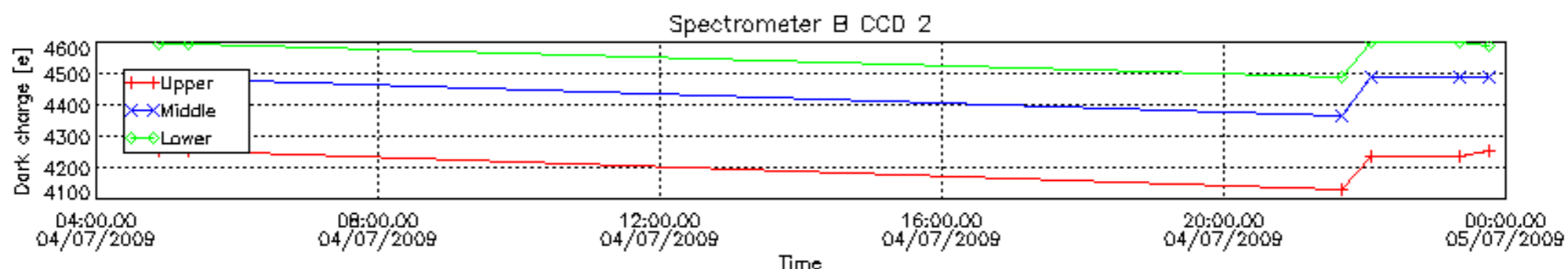
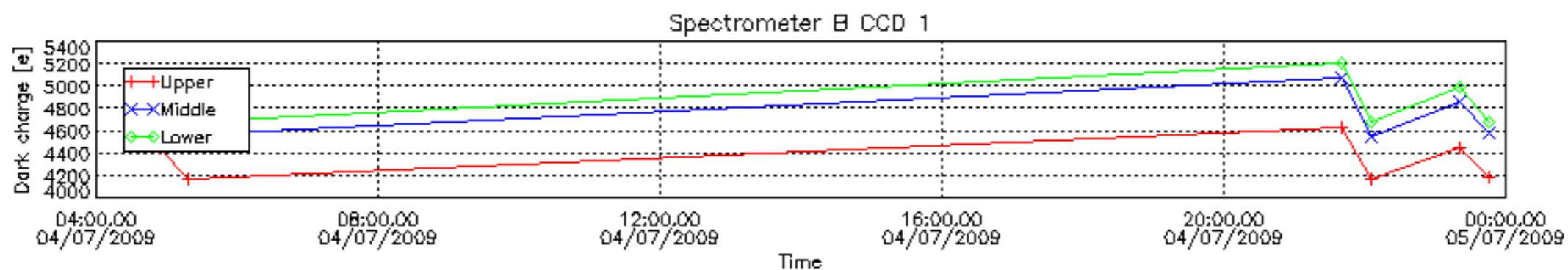
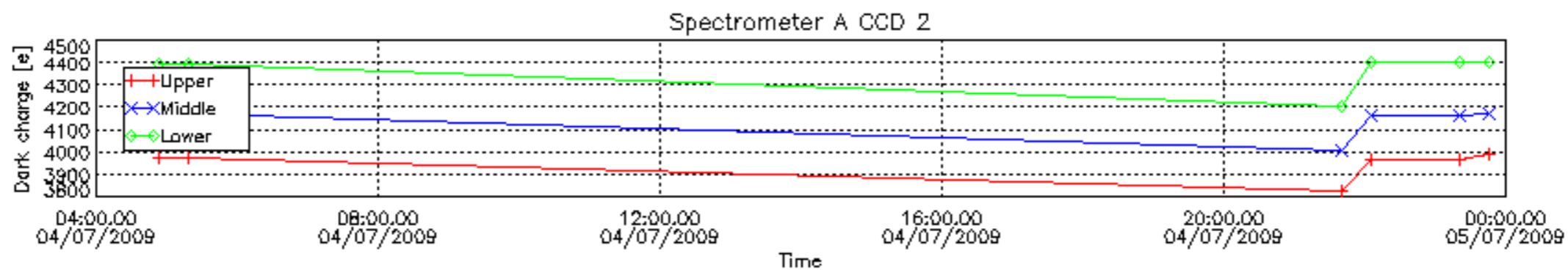
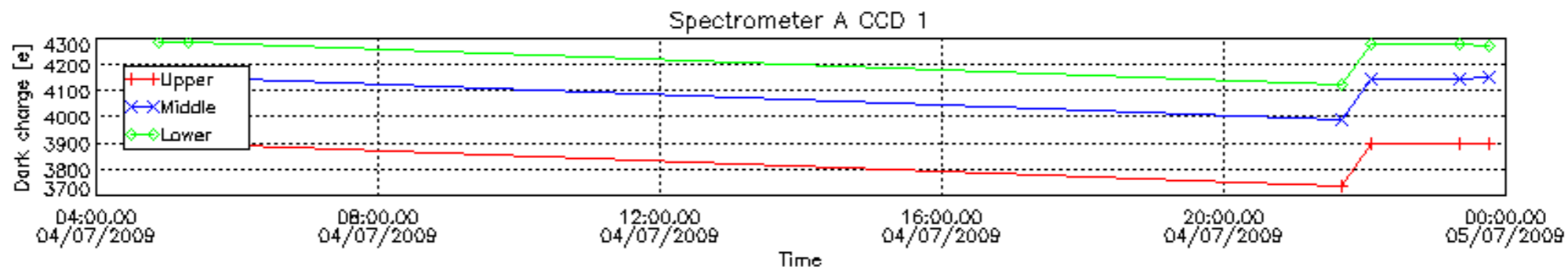
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JUL-2009 04:39:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	04-JUL-2009 04:39:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JUL-2009 04:39:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JUL-2009 04:39:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JUL-2009 04:39:23
ECMWF_FILE	AUX_ECF_AXNECM20090703_184112_20090704_030000_20090704_150000	1	04-JUL-2009 04:39:23
ECMWF_FILE	AUX_ECF_AXNECM20090707_142112_20090704_150000_20090705_030000	14	04-JUL-2009 20:35:39
ECMWF_FILE	AUX_ECF_AXNECM20090707_142113_20090704_210000_20090705_090000	25	04-JUL-2009 22:04:58
OPTIONAL_ECMWF_FILE	MISSING	1	04-JUL-2009 04:39:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090704_025459_000057382080_00261_38391_8282.N1	1	04-JUL-2009 04:39:23
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20090706_010111_20090702_221000_20090705_005000	14	04-JUL-2009 20:35:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090704_214641_000057382080_00272_38402_8285.N1	25	04-JUL-2009 22:04:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090704_232738_000057382080_00273_38403_8286.N1	39	04-JUL-2009 23:45:36

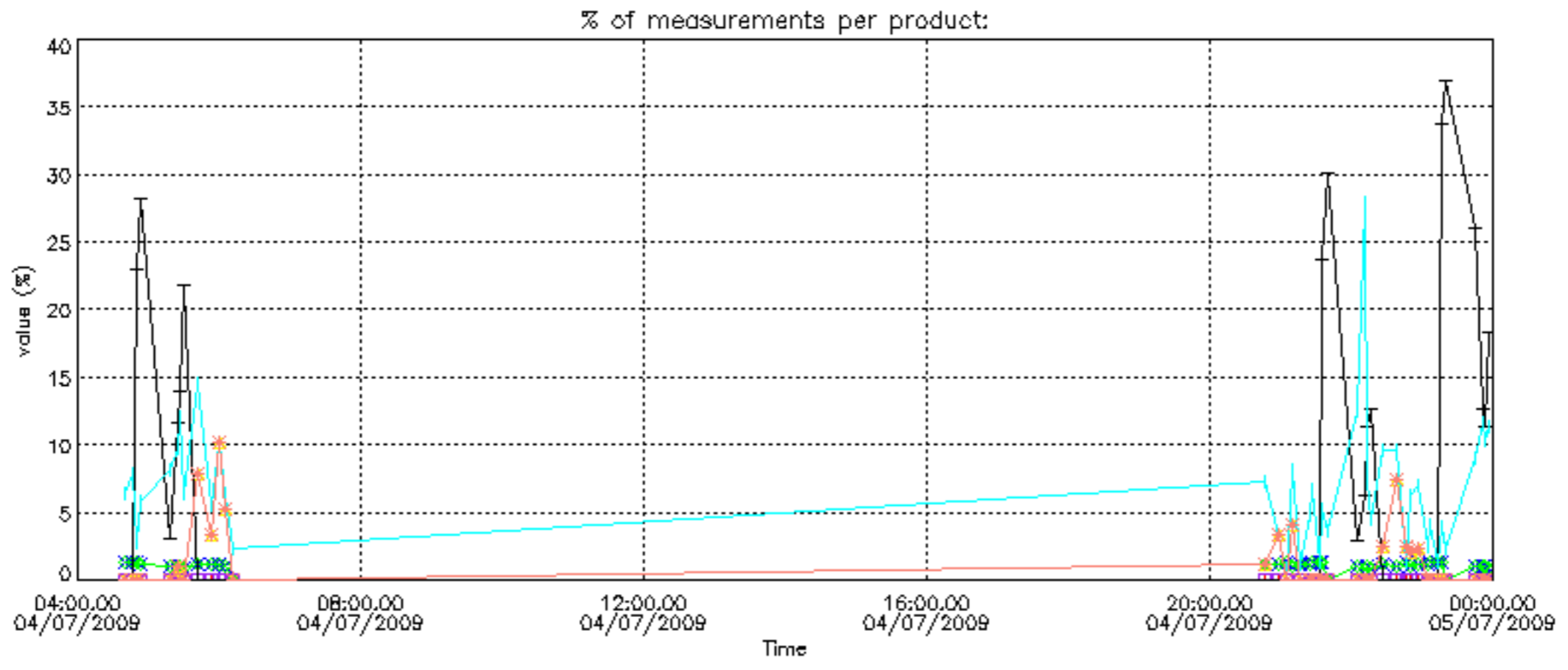




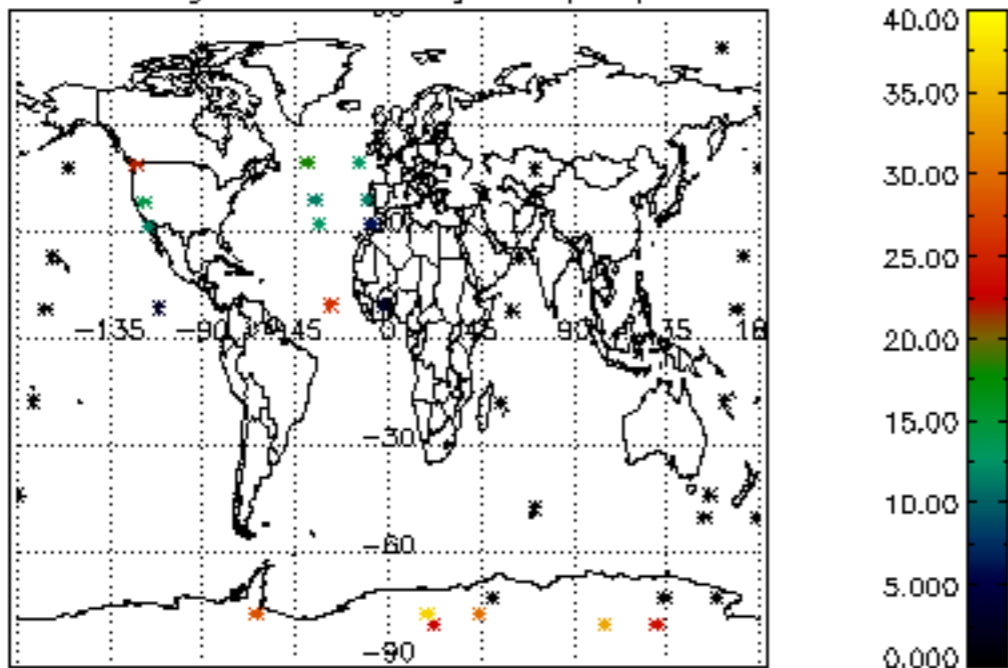




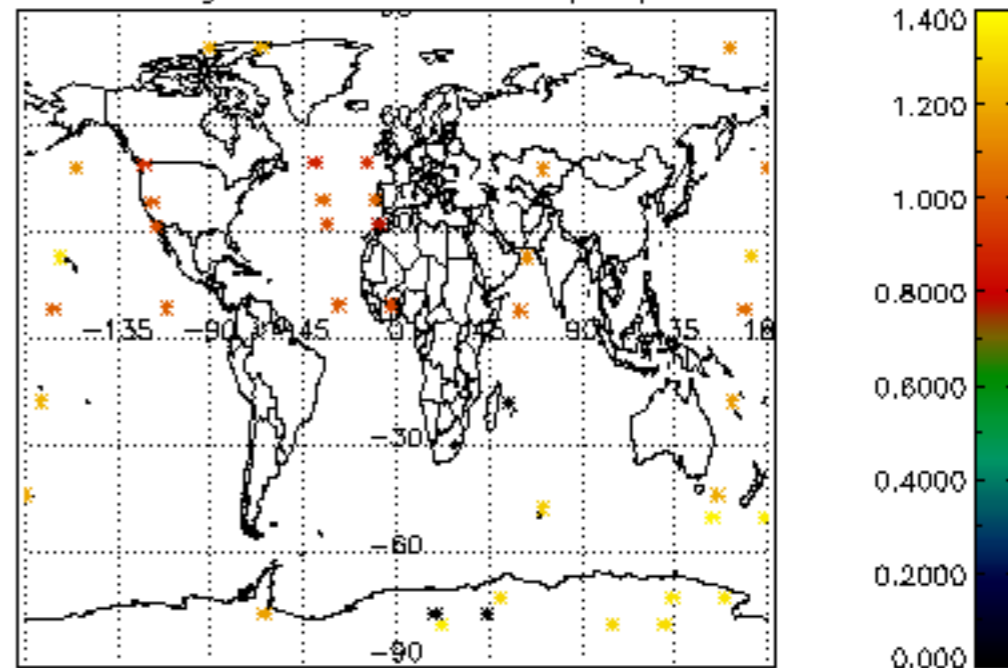




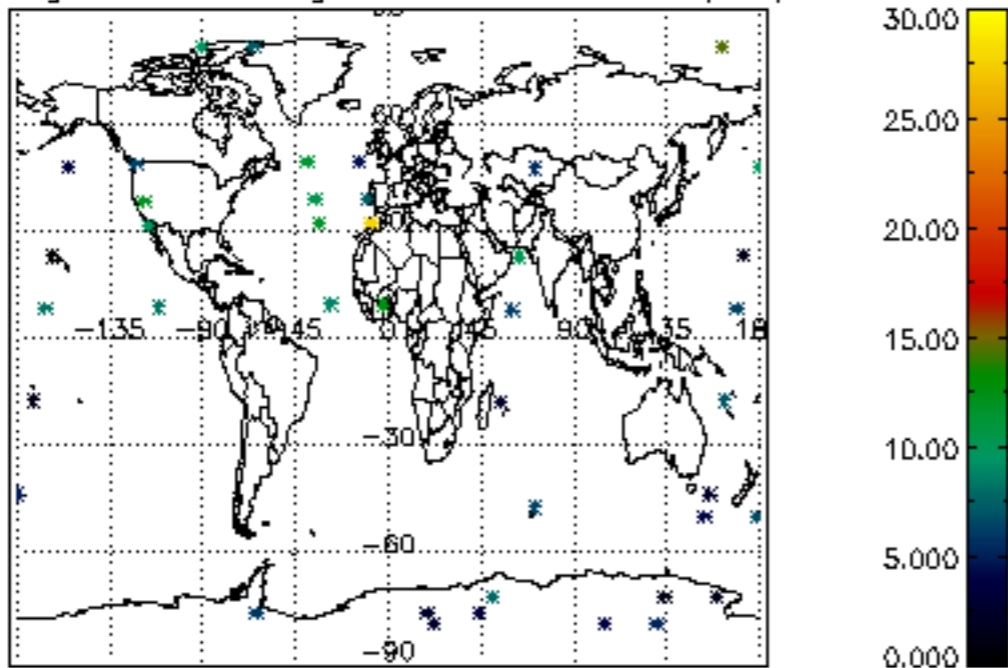
Percentage of cosmic ray hits per profile



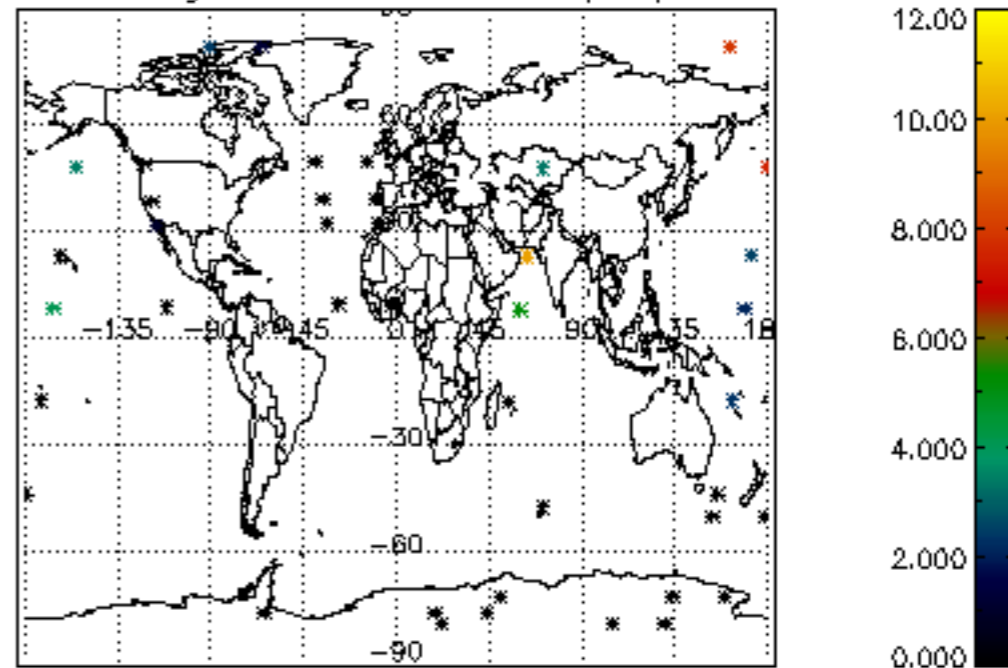
Percentage of datation errors per profile



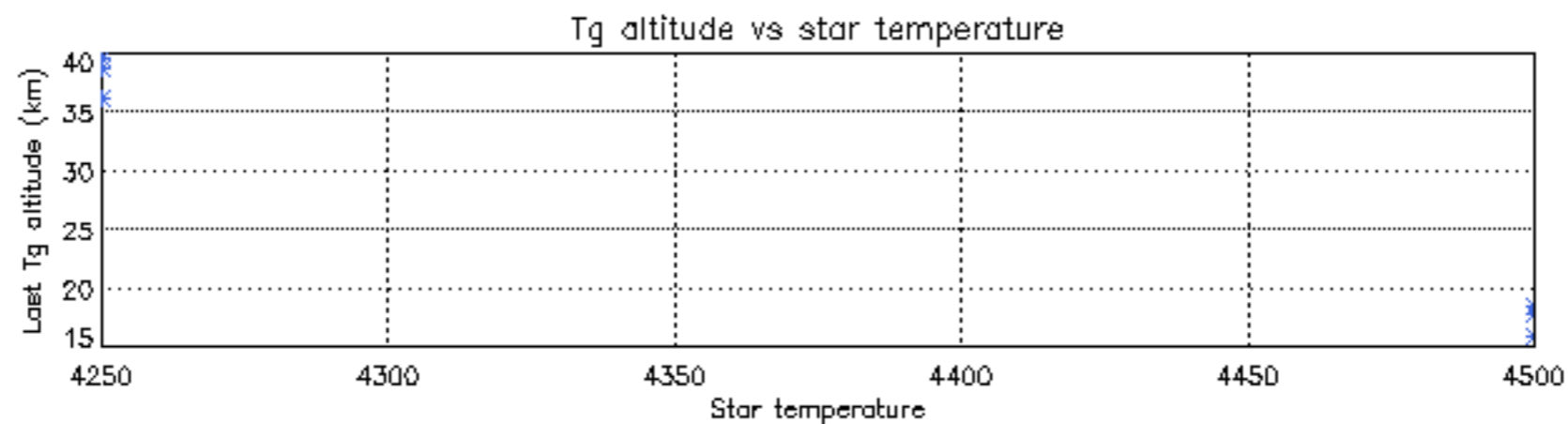
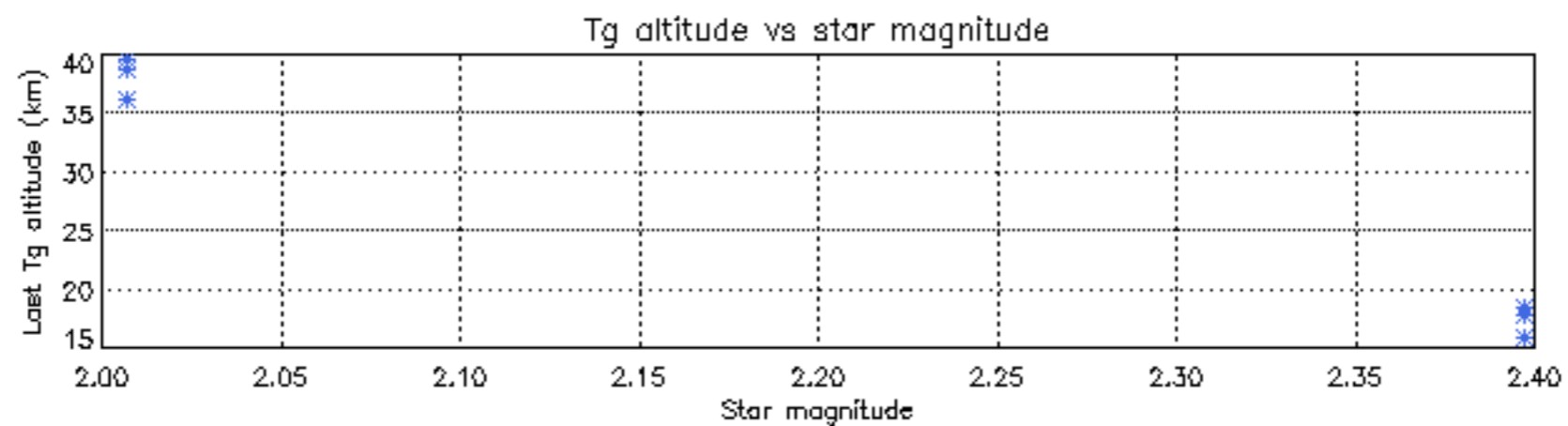
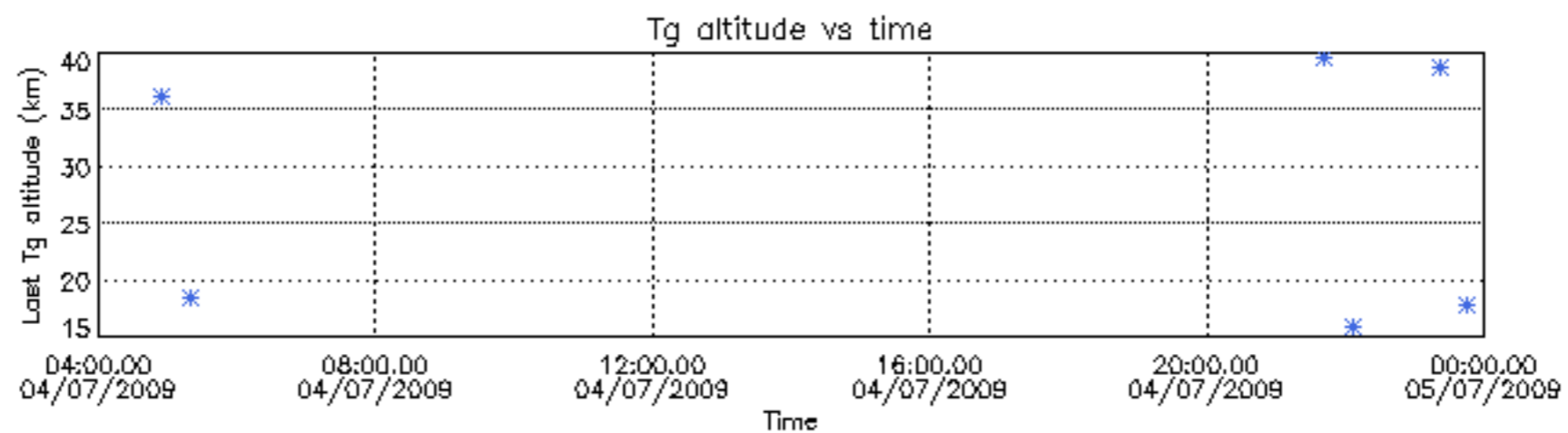
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

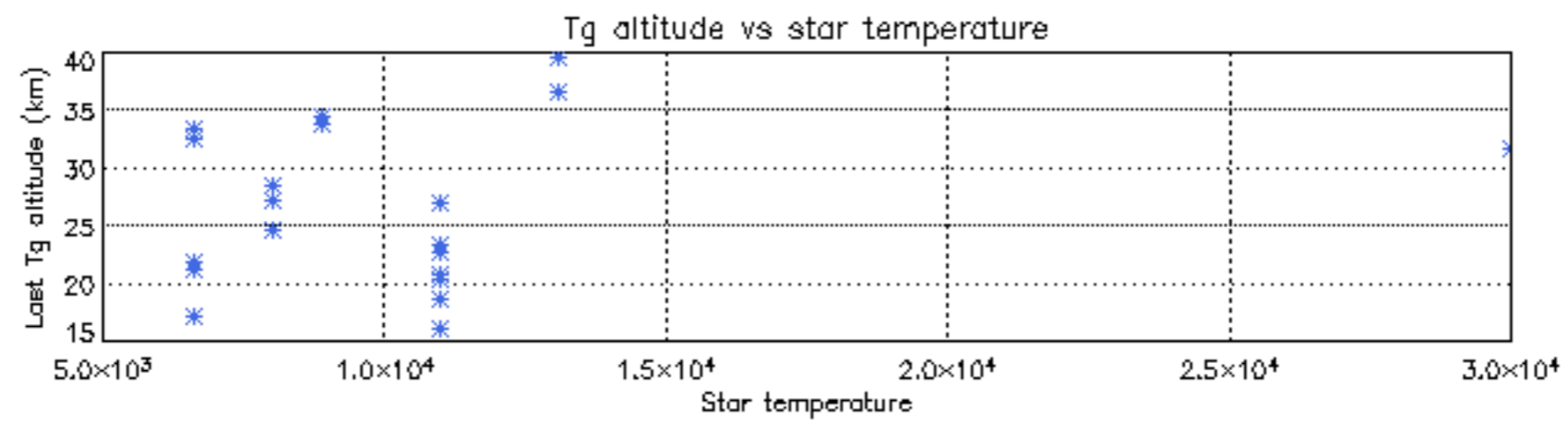
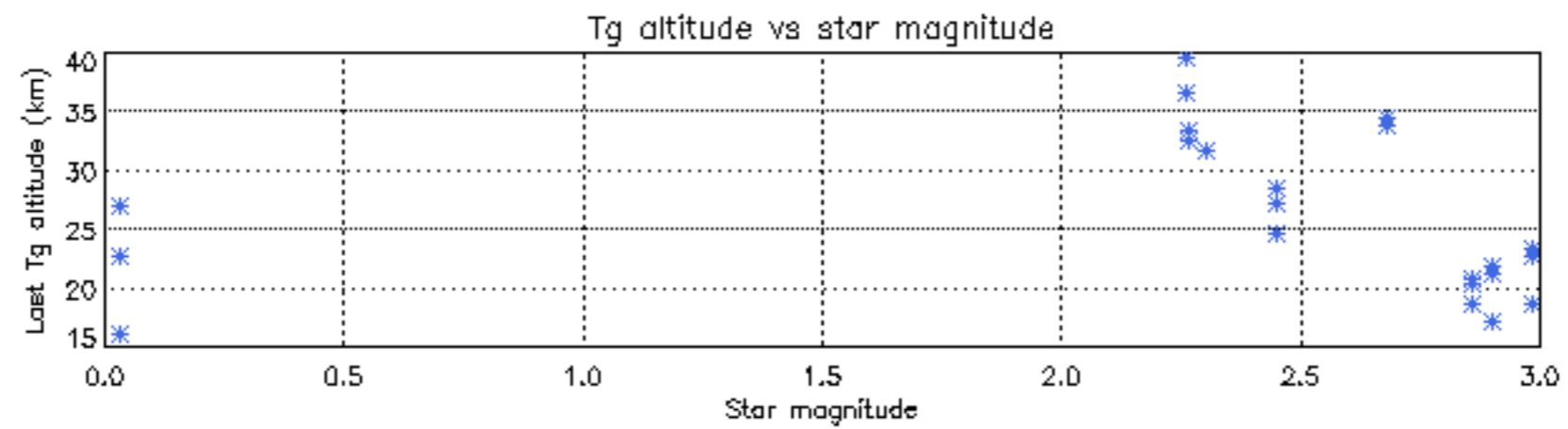
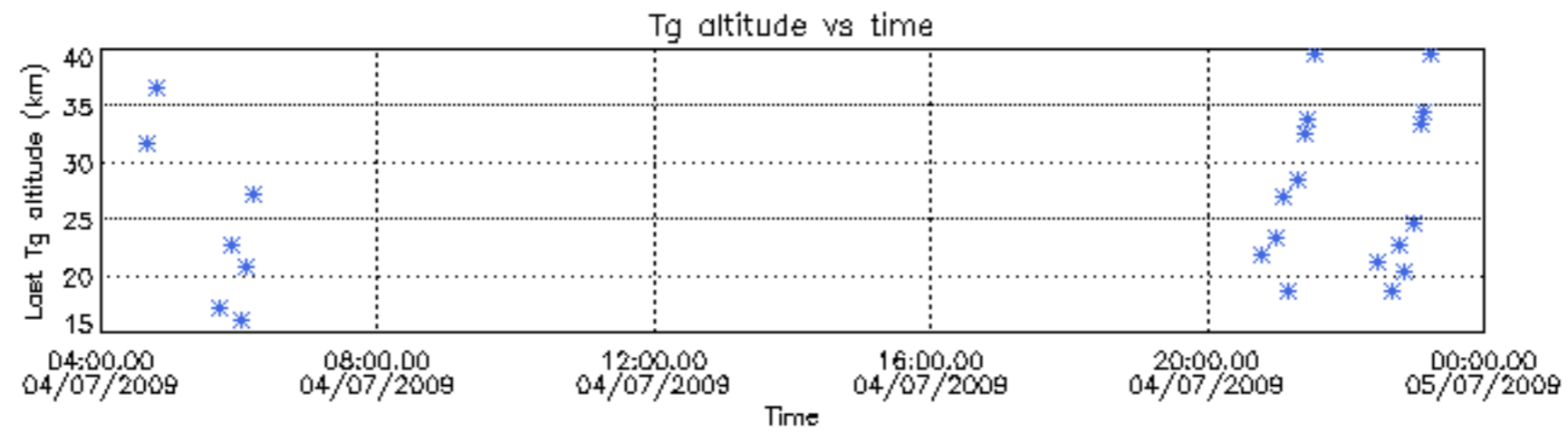


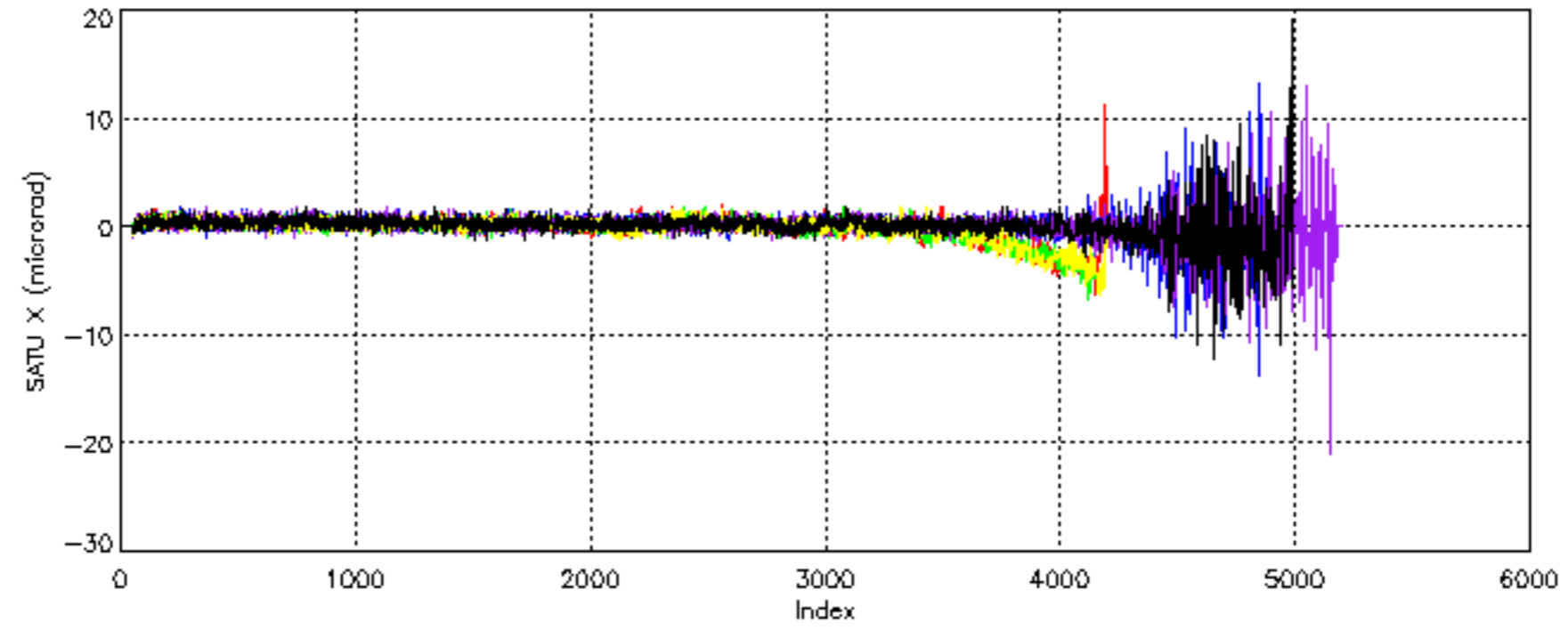
Tangent altitude at which the star is lost

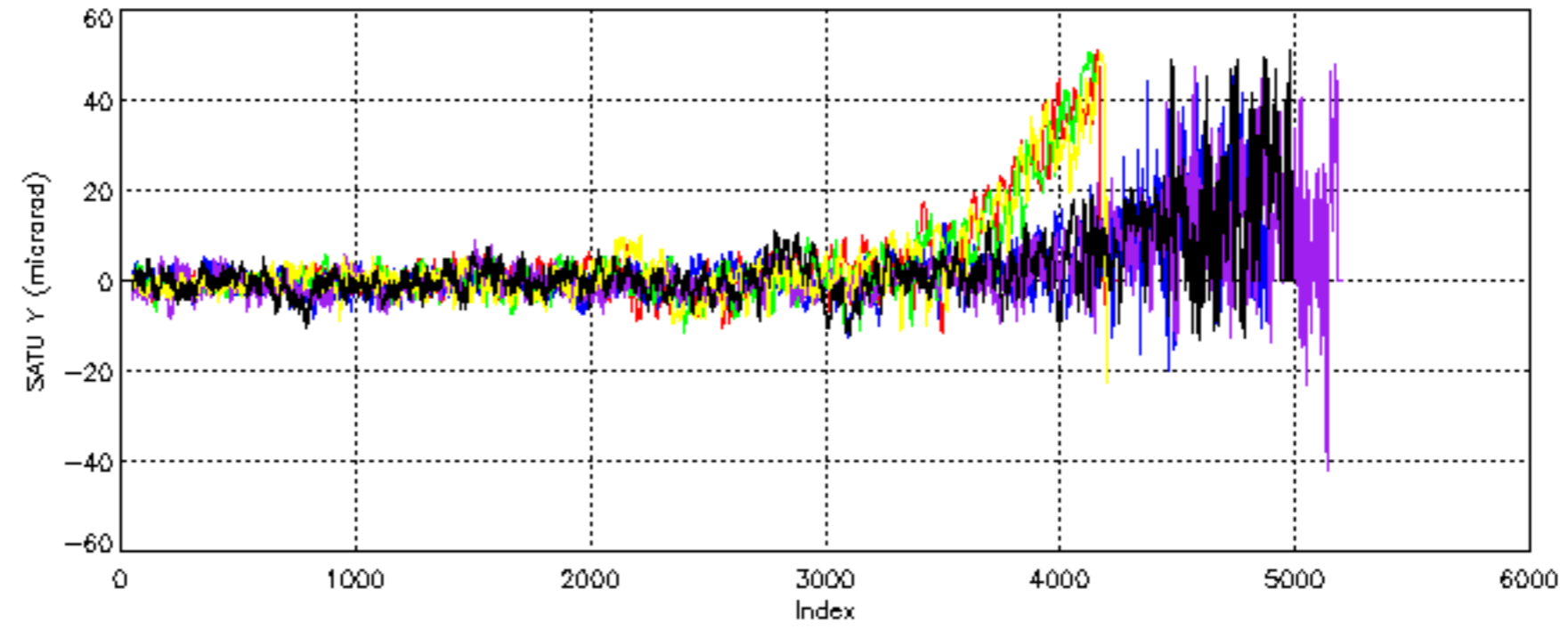


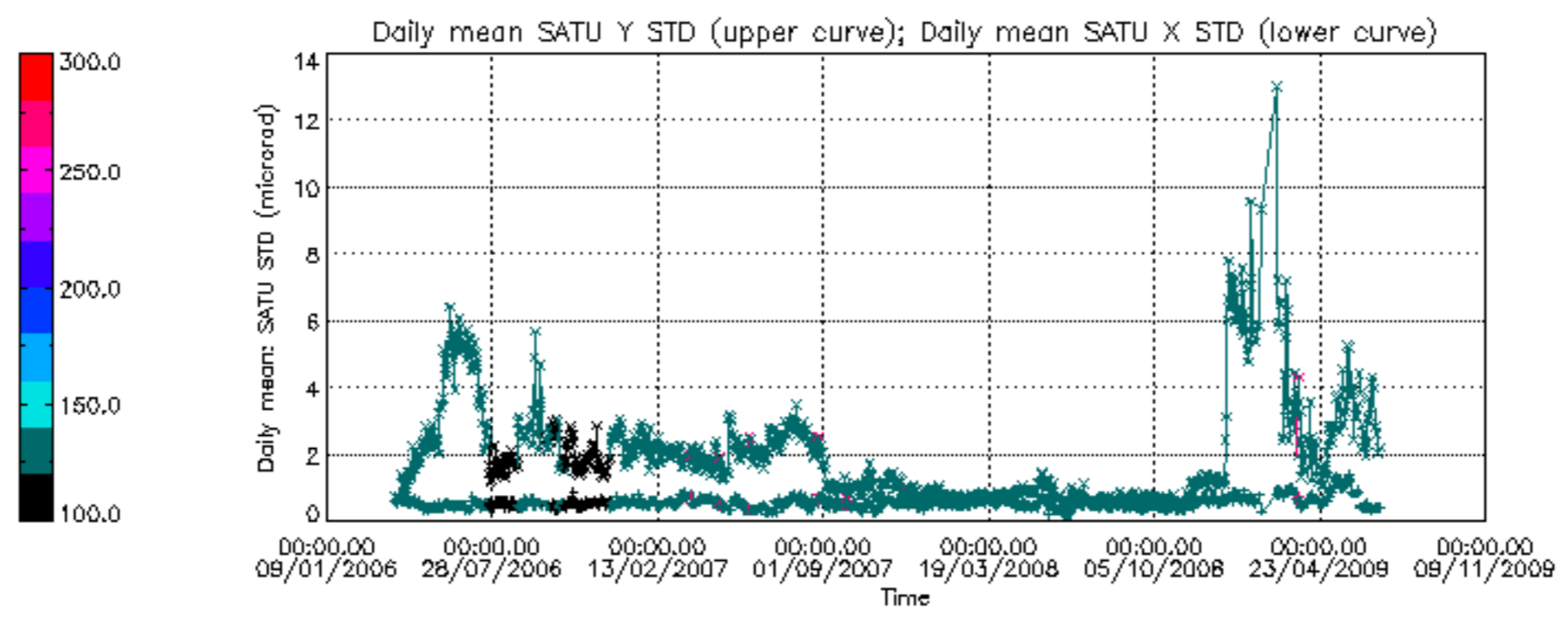


Tangent altitude at which the star is lost









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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
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9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
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13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
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 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360  
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 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360  
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 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361  
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 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
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4; 2890.7; 03-JUL-2009 16:39:46; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38385
5; 3318.4; 03-JUL-2009 16:46:54; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38385
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7; 2204.4; 05-JUL-2009 00:19:42; Bright; 67.0; 168; 17Zet Aql ; 2.99; 11000;occ; 134; 0;38404
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6; 4428.4; 04-JUL-2009 09:51:23; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38395
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13; 6865.3; 04-JUL-2009 13:53:12; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38397
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4; 2880.6; 04-JUL-2009 14:27:23; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38398
5; 3757.5; 04-JUL-2009 14:42:00; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38398
6; 3861.4; 04-JUL-2009 14:43:44; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38398
7; 4263.0; 04-JUL-2009 14:50:25; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38398
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5; 3308.3; 04-JUL-2009 17:55:42; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38400
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8; 4262.7; 04-JUL-2009 18:11:37; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38400
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 7; 4259.5; 06-JUL-2009 20:29:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38430  
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7; 4260.1; 06-JUL-2009 10:25:56; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38424
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 3; 2859.6; 06-JUL-2009 13:23:48; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38426
 4; 3291.1; 06-JUL-2009 13:30:59; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38426
 5; 3741.4; 06-JUL-2009 13:38:29; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38426
 6; 3851.9; 06-JUL-2009 13:40:20; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38426
 7; 4260.0; 06-JUL-2009 13:47:08; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38426
 8; 4430.6; 06-JUL-2009 13:49:59; Dark ; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;38426
 9; 4709.2; 06-JUL-2009 13:54:37; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;38426
10; 5015.5; 06-JUL-2009 13:59:43; Dark ; 36.0; 94; 92Alp Cet ; 2.53; 3100;occ; 72; 0;38426
11; 5579.7; 06-JUL-2009 14:09:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38426
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13; 6599.0; 06-JUL-2009 14:26:07; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38426
14; 6708.9; 06-JUL-2009 14:27:57; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38426
15; 6893.1; 06-JUL-2009 14:31:01; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38426
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 3; 673.9; 06-JUL-2009 16:08:34; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38428
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 3; 2858.0; 06-JUL-2009 16:44:58; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38428
 4; 3290.1; 06-JUL-2009 16:52:10; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38428
 5; 3740.2; 06-JUL-2009 16:59:40; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;38428
 6; 3851.3; 06-JUL-2009 17:01:31; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38428
 7; 4259.8; 06-JUL-2009 17:08:20; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38428
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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
10; 5582.0; 06-JUL-2009 17:30:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38428
11; 6220.9; 06-JUL-2009 17:41:01; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38428
12; 6600.8; 06-JUL-2009 17:47:21; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38428
13; 6710.7; 06-JUL-2009 17:49:11; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38428
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 3; 2857.3; 06-JUL-2009 18:25:33; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38429
 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
 6; 3851.0; 06-JUL-2009 18:42:07; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38429
 7; 4259.8; 06-JUL-2009 18:48:56; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;38429
 8; 4710.7; 06-JUL-2009 18:56:27; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;38429
 9; 5017.0; 06-JUL-2009 19:01:33; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;38429
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13; 6711.4; 06-JUL-2009 19:29:47; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38429
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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
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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
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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
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3; -1323.2; 07-JUL-2009 03:19:28; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38434
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5; -447.6; 07-JUL-2009 03:34:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38434
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
8; 679.6; 07-JUL-2009 03:52:51; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38435
9; 864.9; 07-JUL-2009 03:55:56; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38435
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11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38435
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4; -1322.9; 07-JUL-2009 05:00:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38435
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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2; 2188.7; 07-JUL-2009 21:03:59; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38445
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  
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 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447  
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 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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 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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 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436  
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 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436  
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 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  
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11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
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 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
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 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
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 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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9; 703.5; 09-JUL-2009 04:30:37; Dark ; 57.5; 31; Alp Gru ; 1.73; 15200;occ; 115; 0;38464
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6; 4049.4; 11-JUL-2009 09:24:57; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;38495
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12; 6700.2; 14-JUL-2009 13:36:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38540
13; 6798.6; 14-JUL-2009 13:37:42; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38540
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5; 3668.0; 14-JUL-2009 14:26:08; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38541
6; 3806.8; 14-JUL-2009 14:28:27; Bright; 67.0; 110; 37Del Cas ; 2.68; 8900;occ; 134; 0;38541
7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
8; 4122.4; 14-JUL-2009 14:33:42; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38541
9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
10; 5086.1; 14-JUL-2009 14:49:46; Dark ; 63.5; 94; 92Alp Cet ; 2.53; 3100;occ; 127; 0;38541
11; 5431.3; 14-JUL-2009 14:55:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38541
12; 6347.5; 14-JUL-2009 15:10:47; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38541
13; 6701.1; 14-JUL-2009 15:16:41; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38541
14; 6799.5; 14-JUL-2009 15:18:19; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38541
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4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542
5; 3667.4; 14-JUL-2009 16:06:43; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38542
6; 3806.3; 14-JUL-2009 16:09:02; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;38542
7; 4042.7; 14-JUL-2009 16:12:58; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38542
8; 4122.3; 14-JUL-2009 16:14:18; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38542
9; 4242.7; 14-JUL-2009 16:16:18; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38542

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13; 6348.8; 14-JUL-2009 16:51:24; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38542
14; 6702.2; 14-JUL-2009 16:57:18; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;38542
15; 6800.1; 14-JUL-2009 16:58:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38542
16; 6992.3; 14-JUL-2009 17:02:08; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38542
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 3; 2784.7; 14-JUL-2009 20:53:48; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38545
 4; 2930.8; 14-JUL-2009 20:56:14; Bright; 53.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 106; 0;38545
 5; 3217.3; 14-JUL-2009 21:01:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38545
 6; 3665.3; 14-JUL-2009 21:08:29; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38545
 7; 3805.1; 14-JUL-2009 21:10:49; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38545
 8; 4042.0; 14-JUL-2009 21:14:46; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;38545
 9; 4122.0; 14-JUL-2009 21:16:06; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38545
10; 4297.3; 14-JUL-2009 21:19:01; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38545
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
 4; 766.4; 14-JUL-2009 22:00:46; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;38546
 5; 958.7; 14-JUL-2009 22:03:58; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38546
 6; 2110.6; 14-JUL-2009 22:23:10; Bright; 46.5; 11; 53Alp Aql ; 0.76; 8000;occ; 93; 0;38546
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 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
10; 3664.7; 14-JUL-2009 22:49:04; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38546
11; 3804.8; 14-JUL-2009 22:51:24; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38546
12; 4041.9; 14-JUL-2009 22:55:21; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;38546
13; 4121.8; 14-JUL-2009 22:56:41; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38546
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 3; 669.3; 14-JUL-2009 23:39:45; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38547
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 5; 959.4; 14-JUL-2009 23:44:35; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38547
 6; 2109.9; 15-JUL-2009 00:03:45; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38547
 7; 2783.6; 15-JUL-2009 00:14:59; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38547
 8; 2928.8; 15-JUL-2009 00:17:24; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38547
 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
10; 3663.8; 15-JUL-2009 00:29:39; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;38547
11; 3804.5; 15-JUL-2009 00:32:00; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38547
12; 4041.7; 15-JUL-2009 00:35:57; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;38547
13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
14; 4297.3; 15-JUL-2009 00:40:13; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38547
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 2; 2785.7; 14-JUL-2009 17:32:37; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38543
 3; 2932.6; 14-JUL-2009 17:35:04; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38543
 4; 3218.7; 14-JUL-2009 17:39:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38543
 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
 6; 3806.0; 14-JUL-2009 17:49:38; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;38543
 7; 4042.4; 14-JUL-2009 17:53:34; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38543
 8; 4122.1; 14-JUL-2009 17:54:54; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38543
 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
10; 4297.4; 14-JUL-2009 17:57:49; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;38543
11; 5087.4; 14-JUL-2009 18:10:59; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38543
12; 5433.2; 14-JUL-2009 18:16:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38543
13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
14; 6703.1; 14-JUL-2009 18:37:55; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38543
15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
16; 6993.1; 14-JUL-2009 18:42:45; Dark ; 52.5; 172; Gam Gru ; 3.00; 13100;occ; 105; 0;38543

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 3; 2785.2; 14-JUL-2009 19:13:13; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38544  
 4; 2931.7; 14-JUL-2009 19:15:39; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;38544  
 5; 3217.9; 14-JUL-2009 19:20:26; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38544  
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 8; 4042.6; 14-JUL-2009 19:34:10; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38544  
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 3; 670.2; 15-JUL-2009 01:20:21; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38548  
 4; 767.6; 15-JUL-2009 01:21:59; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38548  
 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38548  
 6; 2109.7; 15-JUL-2009 01:44:21; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38548  
 7; 2783.0; 15-JUL-2009 01:55:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38548  
 8; 2927.9; 15-JUL-2009 01:57:59; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38548  
 9; 3215.4; 15-JUL-2009 02:02:47; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38548  
 10; 3663.3; 15-JUL-2009 02:10:15; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38548  
 11; 3803.7; 15-JUL-2009 02:12:35; Bright; 49.0; 110; 37Del Cas ; 2.68; 8900;occ; 98; 0;38548  
 12; 4041.7; 15-JUL-2009 02:16:33; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38548

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 3; -1738.7; 15-JUL-2009 02:20:48; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38548  
 4; -944.8; 15-JUL-2009 02:34:02; Dark ; 60.5; 94; 92Alp Cet ; 2.53; 3100;occ; 121; 0;38548  
 5; -598.4; 15-JUL-2009 02:39:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38548  
 6; 319.4; 15-JUL-2009 02:55:07; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38549  
 7; 670.9; 15-JUL-2009 03:00:58; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38549  
 8; 768.4; 15-JUL-2009 03:02:36; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38549  
 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549  
 10; 2109.4; 15-JUL-2009 03:24:57; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38549  
 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549  
 12; 2927.1; 15-JUL-2009 03:38:34; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38549  
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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  
 7; -597.5; 15-JUL-2009 04:20:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38549  
 8; 320.8; 15-JUL-2009 04:35:44; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38550  
 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550  
 10; 769.2; 15-JUL-2009 04:43:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38550  
 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
 12; 2109.0; 15-JUL-2009 05:05:32; Bright; 46.0; 11; 53Alp Aql ; 0.76; 8000;occ; 92; 0;38550  
 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550  
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 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550  
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5; 990.9; 17-JUL-2009 23:50:51; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38590
6; 2153.6; 18-JUL-2009 00:10:14; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38590
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8; 2893.0; 18-JUL-2009 00:22:33; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38590
9; 3191.2; 18-JUL-2009 00:27:32; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38590
10; 3633.9; 18-JUL-2009 00:34:54; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38590
11; 3750.9; 18-JUL-2009 00:36:51; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38590
12; 4034.1; 18-JUL-2009 00:41:34; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38590
13; 4117.2; 18-JUL-2009 00:42:58; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38590
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15; 4473.8; 18-JUL-2009 00:48:54; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38590
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3; 2901.0; 17-JUL-2009 07:36:42; Bright; 71.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 142; 0;38580
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5; 3641.1; 17-JUL-2009 07:49:02; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38580
6; 3757.6; 17-JUL-2009 07:50:59; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38580
7; 4036.0; 17-JUL-2009 07:55:37; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38580
8; 4118.3; 17-JUL-2009 07:56:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38580
9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
11; 4628.9; 17-JUL-2009 08:05:30; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;38580
12; 5116.1; 17-JUL-2009 08:13:37; Dark ; 59.0; 94; 92Alp Cet ; 2.53; 3100;occ; 118; 0;38580
13; 5467.3; 17-JUL-2009 08:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38580
14; 6392.4; 17-JUL-2009 08:34:54; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;38580
15; 6733.7; 17-JUL-2009 08:40:35; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;38580
16; 6827.4; 17-JUL-2009 08:42:08; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38580
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3; 2900.2; 17-JUL-2009 09:17:17; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38581
4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
5; 3640.2; 17-JUL-2009 09:29:37; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38581
6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
7; 4035.8; 17-JUL-2009 09:36:13; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38581

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 11; 4629.2; 17-JUL-2009 09:46:06; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38581  
 12; 5116.9; 17-JUL-2009 09:54:14; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38581  
 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  
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 16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581  
 17; 7021.6; 17-JUL-2009 10:25:59; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 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  
 4; 3195.5; 17-JUL-2009 11:02:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38582  
 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  
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 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
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 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
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 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  
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 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
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 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
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13; 2153.1; 18-JUL-2009 06:52:37; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;38594
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5; 3184.3; 18-JUL-2009 20:34:36; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38602
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6; 1000.0; 18-JUL-2009 21:38:48; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38603
7; 2151.5; 18-JUL-2009 21:57:59; Bright; 38.5; 168; 17Zet Aql ; 2.99; 11000;occ; 77; 0;38603
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6; 1029.7; 22-JUL-2009 01:06:14; Dark ; 49.0; 172; Gam Gru ; 3.00; 13100;occ; 98; 0;38648
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 16; 6895.7; 24-JUL-2009 15:05:33; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38684  
 17; 7088.0; 24-JUL-2009 15:08:45; Dark ; 48.5; 172; Gam Gru ; 3.00; 13100;occ; 97; 0;38684

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 2; 2647.4; 24-JUL-2009 15:35:21; Bright; 71.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 142; 0;38685  
 3; 2825.1; 24-JUL-2009 15:38:18; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38685  
 4; 3140.7; 24-JUL-2009 15:43:34; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38685  
 5; 3563.1; 24-JUL-2009 15:50:36; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38685  
 6; 3666.3; 24-JUL-2009 15:52:20; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38685  
 7; 4012.4; 24-JUL-2009 15:58:06; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38685  
 8; 4102.9; 24-JUL-2009 15:59:36; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38685  
 9; 4317.4; 24-JUL-2009 16:03:11; Bright; 41.5; 149; 45Eps Per ; 2.89; 30000;occ; 83; 0;38685  
 10; 4486.9; 24-JUL-2009 16:06:00; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;38685  
 11; 4657.8; 24-JUL-2009 16:08:51; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38685  
 12; 4753.2; 24-JUL-2009 16:10:26; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38685  
 13; 5360.3; 24-JUL-2009 16:20:34; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38685  
 14; 5583.8; 24-JUL-2009 16:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38685  
 15; 5917.8; 24-JUL-2009 16:29:51; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38685  
 16; 6513.0; 24-JUL-2009 16:39:46; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38685  
 17; 6896.3; 24-JUL-2009 16:46:10; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38685  
 18; 7088.7; 24-JUL-2009 16:49:22; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38685

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 2; 2646.7; 24-JUL-2009 17:15:56; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38686  
 3; 2824.5; 24-JUL-2009 17:18:54; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38686  
 4; 3140.0; 24-JUL-2009 17:24:09; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38686  
 5; 3562.4; 24-JUL-2009 17:31:12; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38686  
 6; 3665.8; 24-JUL-2009 17:32:55; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38686  
 7; 4012.2; 24-JUL-2009 17:38:41; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38686  
 8; 4102.7; 24-JUL-2009 17:40:12; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38686  
 9; 4289.2; 24-JUL-2009 17:43:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38686  
 10; 4487.0; 24-JUL-2009 17:46:36; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38686  
 11; 4658.1; 24-JUL-2009 17:49:27; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38686  
 12; 4753.5; 24-JUL-2009 17:51:03; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38686  
 13; 5361.1; 24-JUL-2009 18:01:10; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38686  
 14; 5585.0; 24-JUL-2009 18:04:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38686  
 15; 5918.7; 24-JUL-2009 18:10:28; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38686  
 16; 6514.3; 24-JUL-2009 18:20:24; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38686  
 17; 6897.0; 24-JUL-2009 18:26:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38686

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 2; 2072.1; 24-JUL-2009 18:46:57; Bright; 59.0; 11; 53Alp Aql ; 0.76; 8000;occ; 118; 0;38687  
 3; 2646.0; 24-JUL-2009 18:56:31; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38687  
 4; 2823.9; 24-JUL-2009 18:59:29; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;38687  
 5; 3139.5; 24-JUL-2009 19:04:45; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38687  
 6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687  
 7; 3665.2; 24-JUL-2009 19:13:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38687  
 8; 4011.9; 24-JUL-2009 19:19:17; Bright; 63.5; 160; 23Gam Per ; 2.93; 4700;occ; 127; 0;38687  
 9; 4102.5; 24-JUL-2009 19:20:48; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38687  
 10; 4289.1; 24-JUL-2009 19:23:54; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38687  
 11; 4487.1; 24-JUL-2009 19:27:12; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38687  
 12; 4658.4; 24-JUL-2009 19:30:04; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38687  
 13; 4753.6; 24-JUL-2009 19:31:39; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38687  
 14; 5361.7; 24-JUL-2009 19:41:47; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38687  
 15; 5586.3; 24-JUL-2009 19:45:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38687  
 16; 5919.5; 24-JUL-2009 19:51:05; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38687  
 17; 6515.4; 24-JUL-2009 20:01:01; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38687  
 18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687  
 19; 7089.7; 24-JUL-2009 20:10:35; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;38687



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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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 2; -444.6; 25-JUL-2009 02:28:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38691  
 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
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17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703
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13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
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4; 3135.5; 25-JUL-2009 08:29:28; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38695
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 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38729  
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 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729  
 14; 5642.7; 27-JUL-2009 18:11:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38729  
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 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729  
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 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730  
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730  
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730  
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730  
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730  
 10; 3999.5; 27-JUL-2009 19:24:50; Bright; 67.0; 160; 23Gam Per ; 2.93; 4700;occ; 134; 0;38730  
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 12; 4284.1; 27-JUL-2009 19:29:34; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38730  
 13; 4493.0; 27-JUL-2009 19:33:03; Dark ; 51.0; 150; 44Zet Per ; 2.89; 28000;occ; 102; 0;38730  
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 15; 4767.7; 27-JUL-2009 19:37:38; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;38730  
 16; 5394.5; 27-JUL-2009 19:48:05; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38730  
 17; 5644.1; 27-JUL-2009 19:52:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38730  
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 19; 6563.6; 27-JUL-2009 20:07:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38730  
 20; 6922.8; 27-JUL-2009 20:13:33; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38730



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 4; 530.9; 28-JUL-2009 01:09:25; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38734  
 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734  
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734  
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734  
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 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734  
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734  
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734  
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 16; 4283.5; 28-JUL-2009 02:11:57; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;38734  
 17; 4493.6; 28-JUL-2009 02:15:27; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38734  
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 9; 2708.3; 28-JUL-2009 03:26:18; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38735  
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 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735  
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 13; 1080.3; 28-JUL-2009 04:39:46; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38736  
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 3; 2776.1; 30-JUL-2009 15:48:59; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;38771  
 4; 3100.0; 30-JUL-2009 15:54:23; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38771  
 5; 3495.3; 30-JUL-2009 16:00:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38771  
 6; 3610.4; 30-JUL-2009 16:02:54; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38771  
 7; 3986.5; 30-JUL-2009 16:09:10; Bright; 68.0; 160; 23Gam Per ; 2.93; 4700;occ; 136; 0;38771  
 8; 4084.1; 30-JUL-2009 16:10:47; Bright; 52.0; 35; 33Alp Per ; 1.79; 6250;occ; 104; 0;38771  
 9; 4316.5; 30-JUL-2009 16:14:40; Bright; 47.0; 149; 45Eps Per ; 2.89; 30000;occ; 94; 0;38771  
 10; 4498.9; 30-JUL-2009 16:17:42; Dark ; 53.5; 150; 44Zet Per ; 2.89; 28000;occ; 107; 0;38771  
 11; 4782.3; 30-JUL-2009 16:22:26; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;38771  
 12; 5270.7; 30-JUL-2009 16:30:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38771  
 13; 5429.5; 30-JUL-2009 16:33:13; Dark ; 55.5; 165; 34Gam Eri ; 2.95; 3200;occ; 111; 0;38771  
 14; 5994.2; 30-JUL-2009 16:42:38; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38771  
 15; 6608.8; 30-JUL-2009 16:52:52; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38771  
 16; 6945.5; 30-JUL-2009 16:58:29; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38771  
 17; 7135.1; 30-JUL-2009 17:01:38; Dark ; 32.0; 172; Gam Gru ; 3.00; 13100;occ; 64; 0;38771

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 3; 2590.0; 30-JUL-2009 17:26:29; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;38772  
 4; 2775.6; 30-JUL-2009 17:29:35; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38772  
 5; 3099.5; 30-JUL-2009 17:34:59; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38772  
 6; 3494.6; 30-JUL-2009 17:41:34; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38772  
 7; 3609.7; 30-JUL-2009 17:43:29; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38772  
 8; 3986.1; 30-JUL-2009 17:49:45; Bright; 68.0; 160; 23Gam Per ; 2.93; 4700;occ; 136; 0;38772  
 9; 4083.9; 30-JUL-2009 17:51:23; Bright; 68.0; 35; 33Alp Per ; 1.79; 6250;occ; 136; 0;38772  
 10; 4316.5; 30-JUL-2009 17:55:16; Bright; 46.0; 149; 45Eps Per ; 2.89; 30000;occ; 92; 0;38772  
 11; 4499.0; 30-JUL-2009 17:58:18; Dark ; 54.0; 150; 44Zet Per ; 2.89; 28000;occ; 108; 0;38772  
 12; 4782.7; 30-JUL-2009 18:03:02; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38772  
 13; 5271.6; 30-JUL-2009 18:11:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38772  
 14; 5430.5; 30-JUL-2009 18:13:50; Dark ; 56.5; 165; 34Gam Eri ; 2.95; 3200;occ; 113; 0;38772  
 15; 5995.0; 30-JUL-2009 18:23:14; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38772  
 16; 6609.7; 30-JUL-2009 18:33:29; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;38772  
 17; 6946.0; 30-JUL-2009 18:39:05; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38772

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 3; 1568.6; 30-JUL-2009 18:50:04; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38773  
 4; 2589.4; 30-JUL-2009 19:07:05; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38773  
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 6; 3099.0; 30-JUL-2009 19:15:34; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38773  
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 9; 3985.7; 30-JUL-2009 19:30:21; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38773  
 10; 4083.4; 30-JUL-2009 19:31:59; Bright; 49.5; 35; 33Alp Per ; 1.79; 6250;occ; 99; 0;38773  
 11; 4316.3; 30-JUL-2009 19:35:52; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;38773  
 12; 4499.1; 30-JUL-2009 19:38:54; Dark ; 55.0; 150; 44Zet Per ; 2.89; 28000;occ; 110; 0;38773  
 13; 4783.0; 30-JUL-2009 19:43:38; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;38773  
 14; 5272.5; 30-JUL-2009 19:51:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38773  
 15; 5431.2; 30-JUL-2009 19:54:27; Dark ; 56.0; 165; 34Gam Eri ; 2.95; 3200;occ; 112; 0;38773  
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3; 578.0; 31-JUL-2009 01:15:57; Dark ; 66.5; 84; Alp Phe ; 2.40; 4500;occ; 133; 0;38777
4; 912.1; 31-JUL-2009 01:21:31; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38777
5; 1101.4; 31-JUL-2009 01:24:40; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38777
6; 1568.9; 31-JUL-2009 01:32:28; Bright; 54.5; 142; 49Del Cap ; 2.85; 8900;occ; 109; 0;38777
7; 2587.2; 31-JUL-2009 01:49:26; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;38777
8; 2773.1; 31-JUL-2009 01:52:32; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38777
9; 3097.2; 31-JUL-2009 01:57:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;38777
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3; -1536.2; 31-JUL-2009 02:21:19; Dark ; 53.5; 150; 44Zet Per ; 2.89; 28000;occ; 107; 0;38777
4; -1251.4; 31-JUL-2009 02:26:03; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;38777
5; -759.7; 31-JUL-2009 02:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38777
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8; 579.2; 31-JUL-2009 02:56:34; Dark ; 65.5; 84; Alp Phe ; 2.40; 4500;occ; 131; 0;38778
9; 912.7; 31-JUL-2009 03:02:08; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38778
10; 1101.8; 31-JUL-2009 03:05:17; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38778
11; 1569.1; 31-JUL-2009 03:13:04; Bright; 54.5; 142; 49Del Cap ; 2.85; 8900;occ; 109; 0;38778
12; 2586.6; 31-JUL-2009 03:30:01; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38778
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6; -1251.2; 31-JUL-2009 04:06:40; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;38778
7; -758.7; 31-JUL-2009 04:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38778
8; -600.1; 31-JUL-2009 04:17:31; Dark ; 56.5; 165; 34Gam Eri ; 2.95; 3200;occ; 113; 0;38778
9; -35.2; 31-JUL-2009 04:26:56; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38778
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3; 1102.7; 31-JUL-2009 06:26:30; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;38780
4; 1569.2; 31-JUL-2009 06:34:16; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;38780
5; 1826.3; 31-JUL-2009 06:38:33; Bright; 28.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 56; 0;38780
6; 2585.6; 31-JUL-2009 06:51:12; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38780
7; 2771.8; 31-JUL-2009 06:54:19; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38780
8; 3095.8; 31-JUL-2009 06:59:43; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38780
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2; 1570.0; 31-JUL-2009 19:59:04; Bright; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;38788
3; 1824.5; 31-JUL-2009 20:03:19; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;38788
4; 2581.1; 31-JUL-2009 20:15:55; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;38788
5; 2767.6; 31-JUL-2009 20:19:02; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;38788
6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788
9; 3980.2; 31-JUL-2009 20:39:15; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38788
10; 4079.4; 31-JUL-2009 20:40:54; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38788
11; 4315.6; 31-JUL-2009 20:44:50; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;38788
12; 4500.9; 31-JUL-2009 20:47:55; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38788
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15; 4078.8; 01-AUG-2009 00:02:05; Bright; 50.5; 35; 33Alp Per ; 1.79; 6250;occ; 101; 0;38790
16; 4315.6; 01-AUG-2009 00:06:02; Bright; 52.0; 149; 45Eps Per ; 2.89; 30000;occ; 104; 0;38790
17; 4501.3; 01-AUG-2009 00:09:07; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38790
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19; 5288.8; 01-AUG-2009 00:22:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38790
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