

# GOMOS Daily Report 14-SEP-2007

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	17SEP2007 09:21:58
Data source version	GOMOS/5.00
Start time of products	14-09-2007 (14SEP2007 00:00:00)
Stop time of products	15-09-2007 (15SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

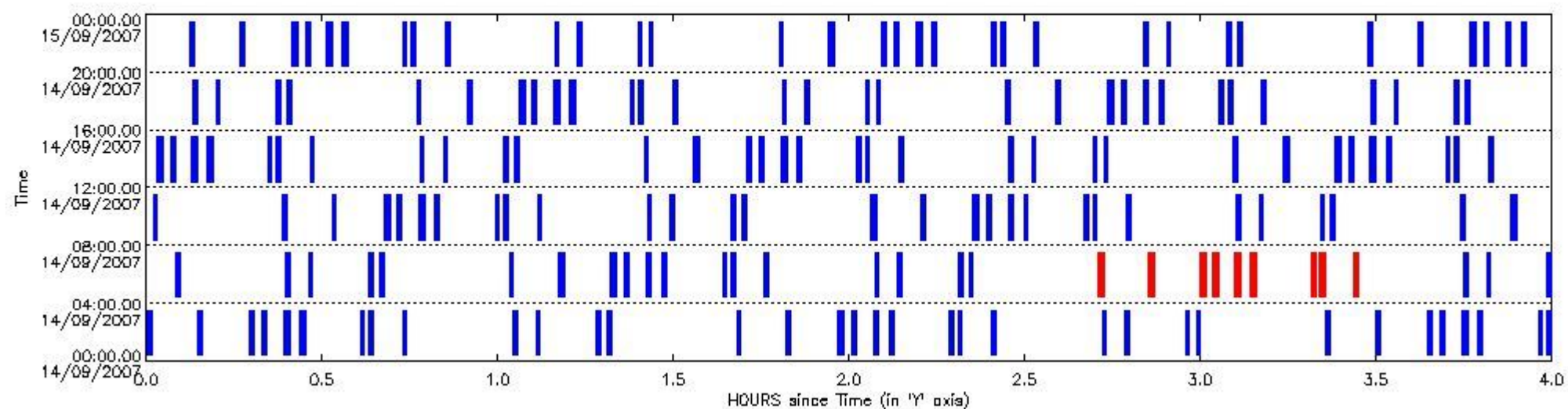
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

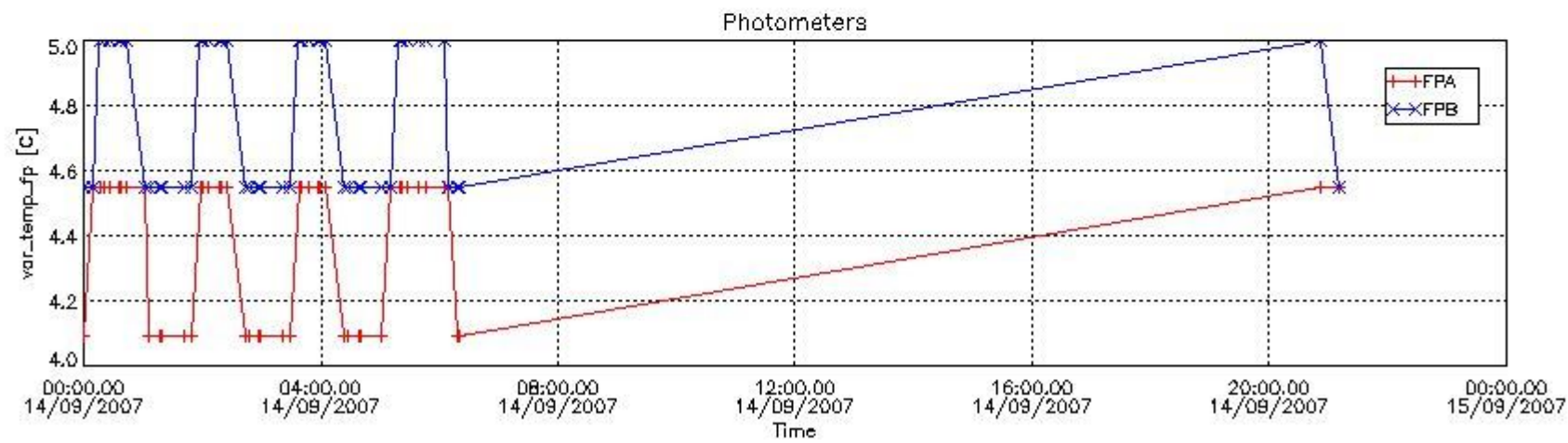
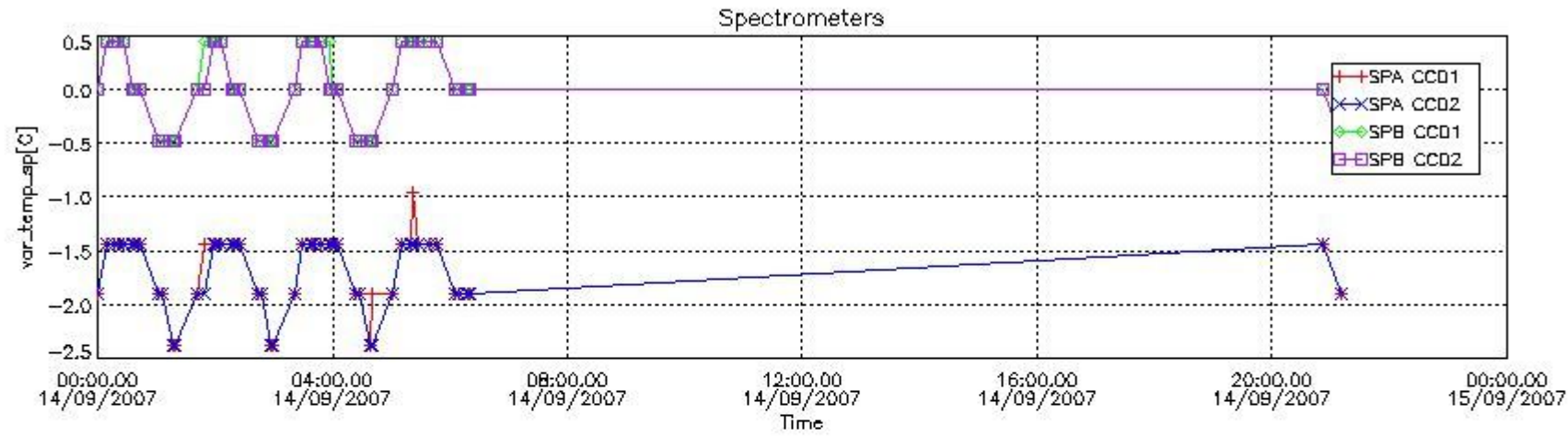
UTC start time	Star name	Star ID	Orbit
14-SEP-2007 06:42:30	66AlpGem	24	28960
14-SEP-2007 06:50:59	10AlpCMi	8	28960
14-SEP-2007 06:59:51	9AlpCMa	1	28960
14-SEP-2007 07:02:10	21EpsCMa	23	28960
14-SEP-2007 07:05:50	DSA1059	0	28960
14-SEP-2007 07:08:32	AlpCar	2	28961
14-SEP-2007 07:18:52	AlpHyi	143	28961
14-SEP-2007 07:20:16	AlpEri	9	28961
14-SEP-2007 07:26:03	AlpPhe	84	28961

### 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_1PNPDE20070914_000010_000000432061_00345_28956_6917.N1	14-SEP-2007 00:00:10	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	28956	No
2	GOM_TRA_1PNPDE20070914_000838_000000472061_00345_28956_6918.N1	14-SEP-2007 00:08:38	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	28956	No

3	GOM_TRA_1PNPDE20070914_001727_000000572061_00345_28956_7056.N1	14-SEP-2007 00:17:27	Dark	57.000	1	9Alp CMA	-1.4400	11000.	114	28956	No
4	GOM_TRA_1PNPDE20070914_001948_000000442061_00345_28956_7057.N1	14-SEP-2007 00:19:48	Dark	43.500	23	21Eps CMA	1.5020	26000.	87	28956	No
5	GOM_TRA_1PNPDE20070914_002611_000000552061_00346_28957_7058.N1	14-SEP-2007 00:26:11	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	28957	No
6	GOM_TRA_1PNPDE20070914_003631_000000392061_00346_28957_7059.N1	14-SEP-2007 00:36:31	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28957	No
7	GOM_TRA_1PNPDE20070914_003755_000000422061_00346_28957_7060.N1	14-SEP-2007 00:37:55	Dark	42.000	9	Alp Eri	0.45300	24000.	84	28957	No
8	GOM_TRA_1PNPDE20070914_004342_000000442061_00346_28957_7061.N1	14-SEP-2007 00:43:42	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	28957	No
9	GOM_TRA_1PNPDE20070914_010235_000000402061_00346_28957_7062.N1	14-SEP-2007 01:02:35	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	28957	No
10	GOM_TRA_1PNPDE20070914_010631_000000422061_00346_28957_7063.N1	14-SEP-2007 01:06:31	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	28957	No
11	GOM_TRA_1PNPDE20070914_011652_000000412061_00346_28957_7064.N1	14-SEP-2007 01:16:52	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28957	No
12	GOM_TRA_1PNPDE20070914_011844_000000402061_00346_28957_7065.N1	14-SEP-2007 01:18:44	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	28957	No
13	GOM_TRA_1PNPDE20070914_014046_000000442061_00346_28957_7066.N1	14-SEP-2007 01:40:46	Bright	44.000	24	66Alp Gem	1.5800	10200.	88	28957	No
14	GOM_TRA_1PNPDE20070914_014915_000000442061_00346_28957_7067.N1	14-SEP-2007 01:49:15	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	28957	No
15	GOM_TRA_1PNPDE20070914_015804_000000572061_00346_28957_7192.N1	14-SEP-2007 01:58:04	Dark	57.000	1	9Alp CMA	-1.4400	11000.	114	28957	No
16	GOM_TRA_1PNPDE20070914_020024_000000462061_00346_28957_7193.N1	14-SEP-2007 02:00:24	Dark	46.000	23	21Eps CMA	1.5020	26000.	92	28957	No
17	GOM_TRA_1PNPDE20070914_020647_000000542061_00347_28958_7194.N1	14-SEP-2007 02:06:47	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	28958	No
18	GOM_TRA_1PNPDE20070914_021707_000000402061_00347_28958_7195.N1	14-SEP-2007 02:17:07	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28958	No
19	GOM_TRA_1PNPDE20070914_021832_000000472061_00347_28958_7196.N1	14-SEP-2007 02:18:32	Dark	47.000	9	Alp Eri	0.45300	24000.	94	28958	No
20	GOM_TRA_1PNPDE20070914_022418_000000502061_00347_28958_7197.N1	14-SEP-2007 02:24:18	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	28958	No
21	GOM_TRA_1PNPDE20070914_024311_000000412061_00347_28958_7198.N1	14-SEP-2007 02:43:11	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	28958	No
22	GOM_TRA_1PNPDE20070914_024706_000000392061_00347_28958_7199.N1	14-SEP-2007 02:47:06	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	28958	No
23	GOM_TRA_1PNPDE20070914_025728_000000402061_00347_28958_7200.N1	14-SEP-2007 02:57:28	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	28958	No
24	GOM_TRA_1PNPDE20070914_025919_000000392061_00347_28958_7201.N1	14-SEP-2007 02:59:19	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	28958	No
25	GOM_TRA_1PNPDE20070914_032122_000000432061_00347_28958_7356.N1	14-SEP-2007 03:21:22	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	28958	No
26	GOM_TRA_1PNPDE20070914_032951_000000462061_00347_28958_7357.N1	14-SEP-2007 03:29:51	Twilight	46.000	8	10Alp CMi	0.40000	6500.0	92	28958	No
27	GOM_TRA_1PNPDE20070914_033841_000000562061_00347_28958_7358.N1	14-SEP-2007 03:38:41	Dark	56.000	1	9Alp CMA	-1.4400	11000.	112	28958	No
28	GOM_TRA_1PNPDE20070914_034101_000000452061_00347_28958_7359.N1	14-SEP-2007 03:41:01	Dark	44.500	23	21Eps CMA	1.5020	26000.	89	28958	No
29	GOM_TRA_1PNPDE20070914_034724_000000522061_00348_28959_7360.N1	14-SEP-2007 03:47:24	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	28959	No
30	GOM_TRA_1PNPDE20070914_035744_000000402061_00348_28959_7361.N1	14-SEP-2007 03:57:44	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28959	No
31	GOM_TRA_1PNPDE20070914_035908_000000452061_00348_28959_7362.N1	14-SEP-2007 03:59:08	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28959	No
32	GOM_TRA_1PNPDE20070914_040455_000000482061_00348_28959_7363.N1	14-SEP-2007 04:04:55	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	28959	No
33	GOM_TRA_1PNPDE20070914_042347_000000412061_00348_28959_7364.N1	14-SEP-2007 04:23:47	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	28959	No
34	GOM_TRA_1PNPDE20070914_042742_000000402061_00348_28959_7365.N1	14-SEP-2007 04:27:42	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	28959	No
35	GOM_TRA_1PNPDE20070914_043803_000000422061_00348_28959_7366.N1	14-SEP-2007 04:38:03	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	28959	No
36	GOM_TRA_1PNPDE20070914_043955_000000422061_00348_28959_7367.N1	14-SEP-2007 04:39:55	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	28959	No
37	GOM_TRA_1PNPDE20070914_050158_000000422061_00348_28959_7520.N1	14-SEP-2007 05:01:58	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	28959	No
38	GOM_TRA_1PNPDE20070914_051027_000000522061_00348_28959_7521.N1	14-SEP-2007 05:10:27	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	28959	No
39	GOM_TRA_1PNPDE20070914_051918_000000572061_00348_28959_7522.N1	14-SEP-2007 05:19:18	Dark	57.000	1	9Alp CMA	-1.4400	11000.	114	28959	No
40	GOM_TRA_1PNPDE20070914_052138_000000472061_00348_28959_7523.N1	14-SEP-2007 05:21:38	Dark	47.000	23	21Eps CMA	1.5020	26000.	94	28959	No
41	GOM_TRA_1PNPDE20070914_052801_000000562061_00349_28960_7524.N1	14-SEP-2007 05:28:01	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	28960	No
42	GOM_TRA_1PNPDE20070914_053820_000000402061_00349_28960_7525.N1	14-SEP-2007 05:38:20	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28960	No
43	GOM_TRA_1PNPDE20070914_053945_000000452061_00349_28960_7526.N1	14-SEP-2007 05:39:45	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28960	No
44	GOM_TRA_1PNPDE20070914_054531_000000482061_00349_28960_7527.N1	14-SEP-2007 05:45:31	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	28960	No
45	GOM_TRA_1PNPDE20070914_060423_000000392061_00349_28960_7528.N1	14-SEP-2007 06:04:23	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	28960	No
46	GOM_TRA_1PNPDE20070914_060818_000000382061_00349_28960_7529.N1	14-SEP-2007 06:08:18	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	28960	No
47	GOM_TRA_1PNPDE20070914_061839_000000412061_00349_28960_7530.N1	14-SEP-2007 06:18:39	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28960	No
48	GOM_TRA_1PNPDE20070914_062030_000000422061_00349_28960_7531.N1	14-SEP-2007 06:20:30	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	28960	No
49	GOM_TRA_1PNPDE20070914_205059_000000482061_00358_28969_7897.N1	14-SEP-2007 20:50:59	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	28969	No
50	GOM_TRA_1PNPDE20070914_210944_000000392061_00358_28969_7898.N1	14-SEP-2007 21:09:44	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	28969	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).

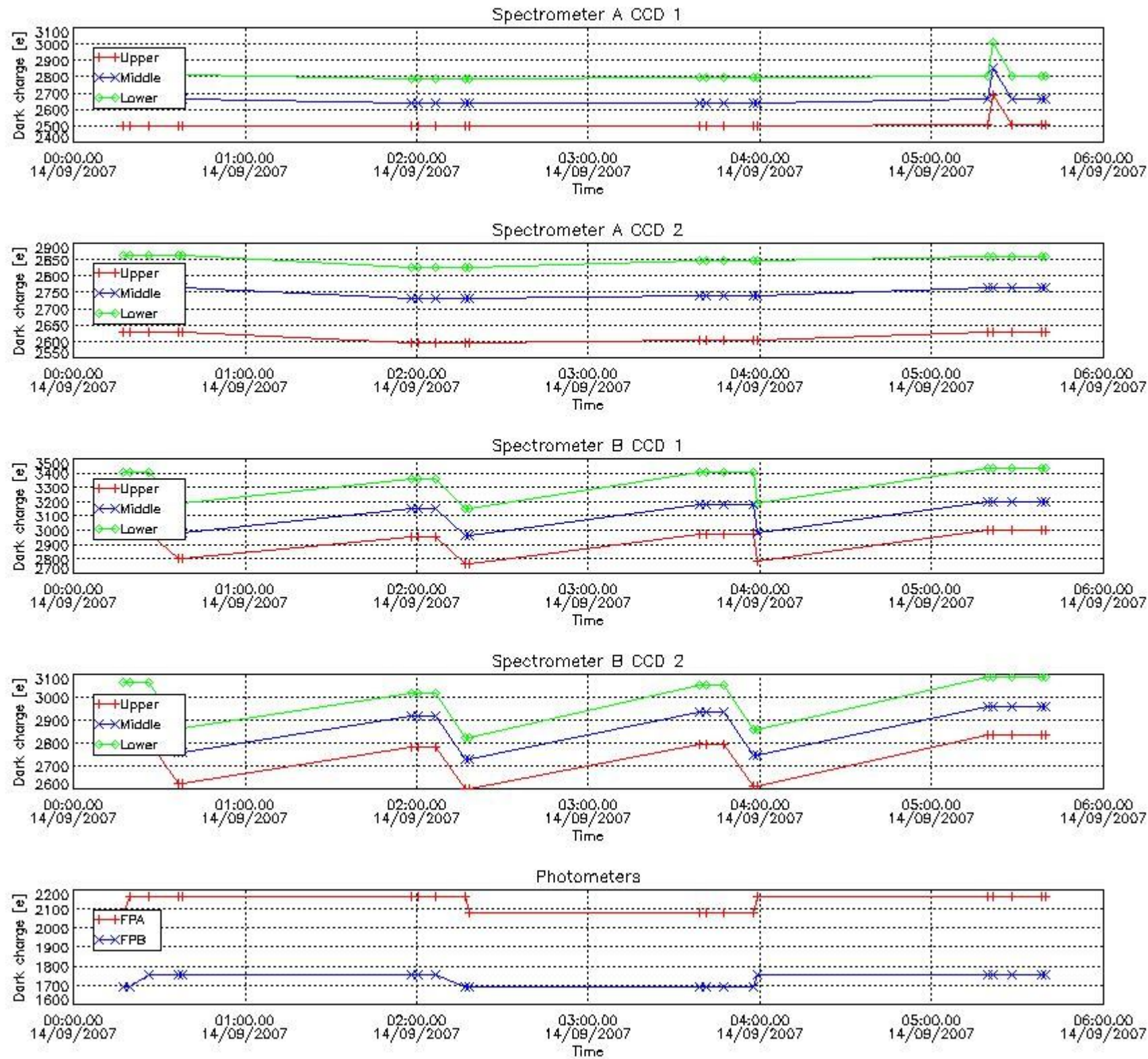
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20070914_205059_000000482061_00358_28969_7897.N1	DC map used
GOM_TRA_1PNPDE20070914_210944_000000392061_00358_28969_7898.N1	DC map used

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





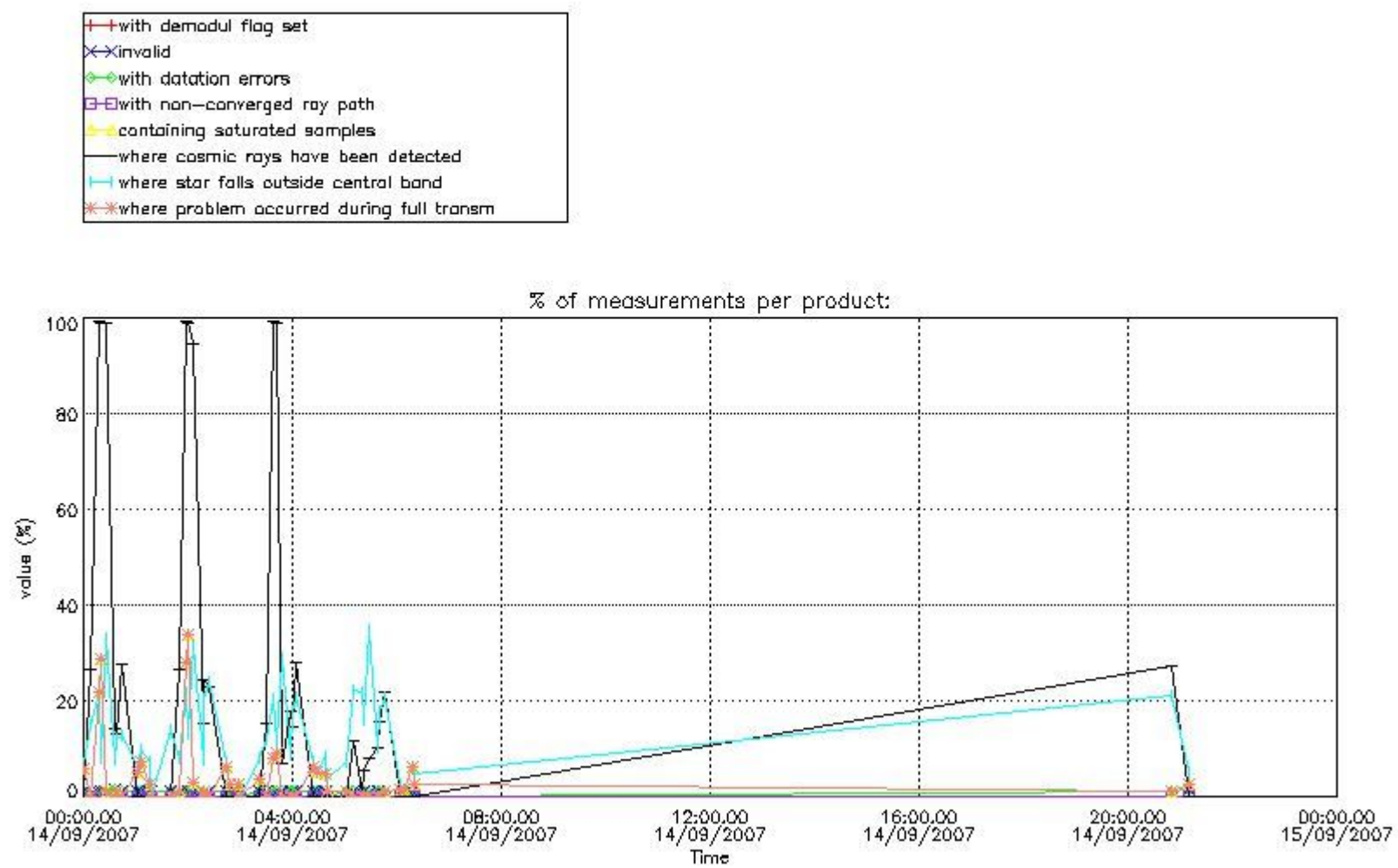
## 5. Demodulation flag and quality information monitoring

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:

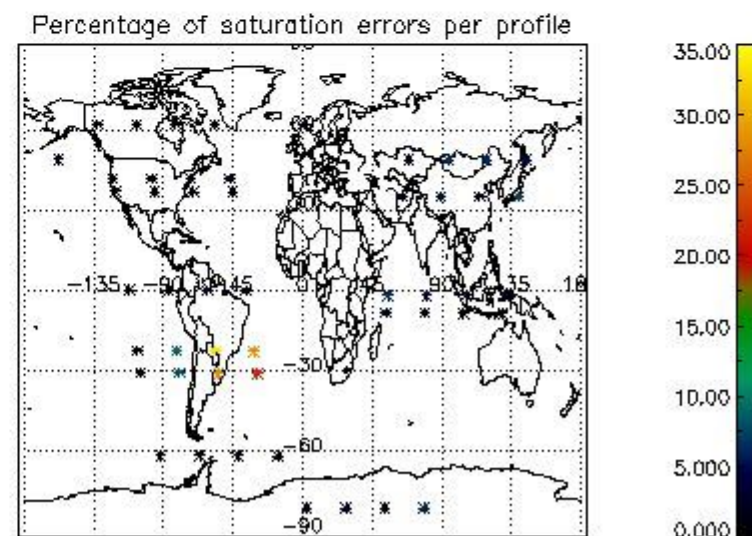
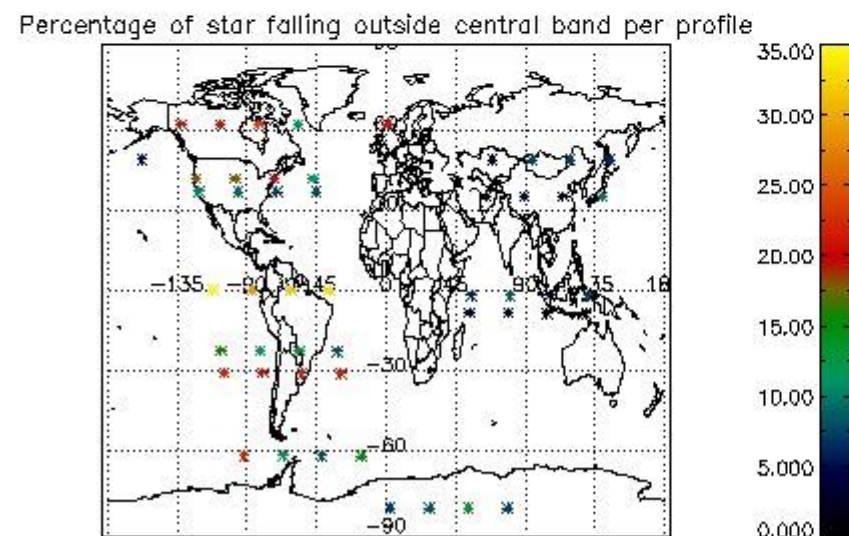
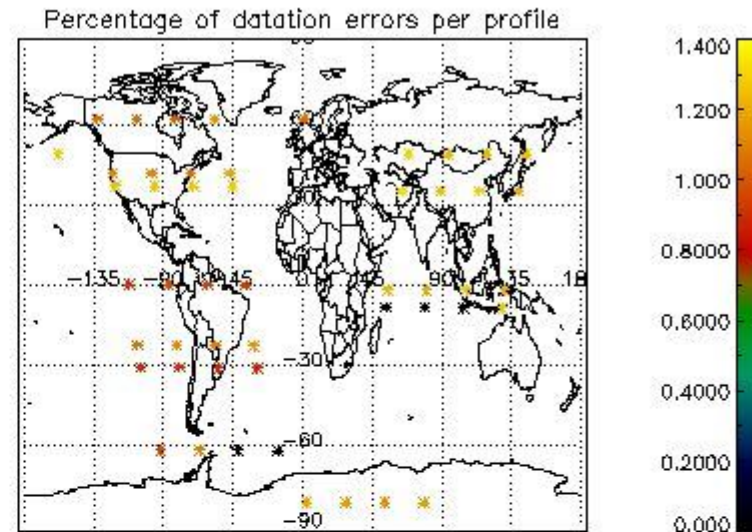
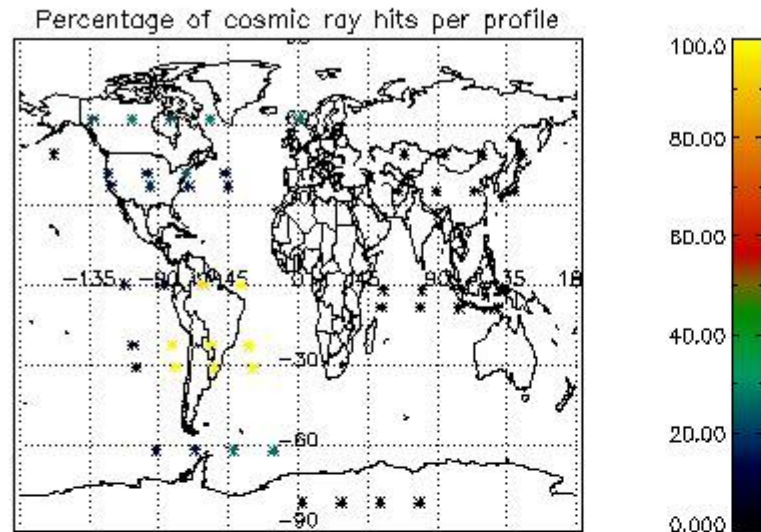
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





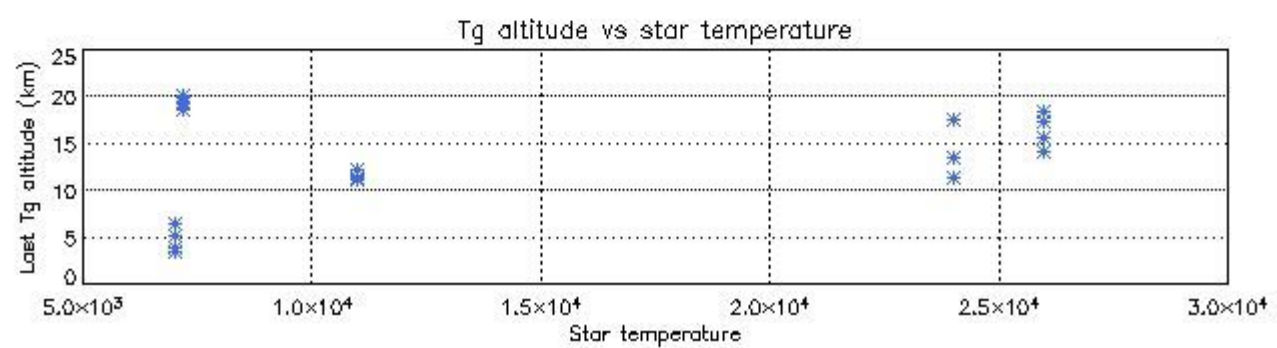
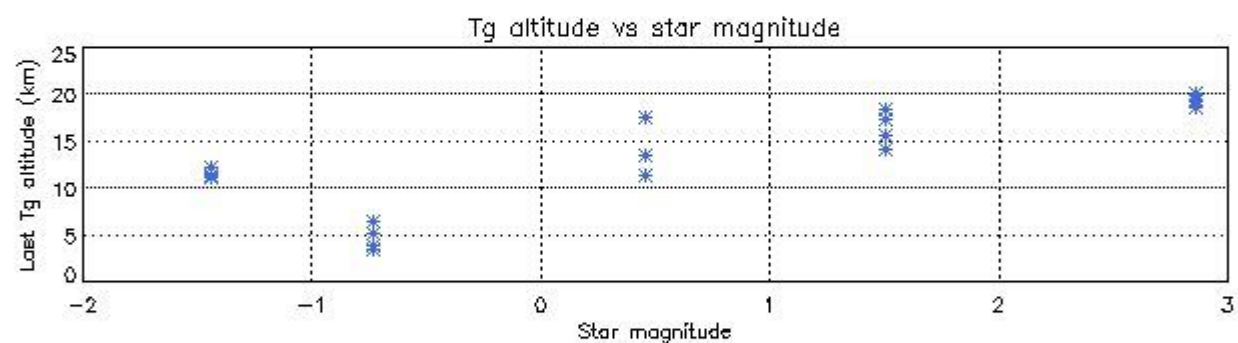
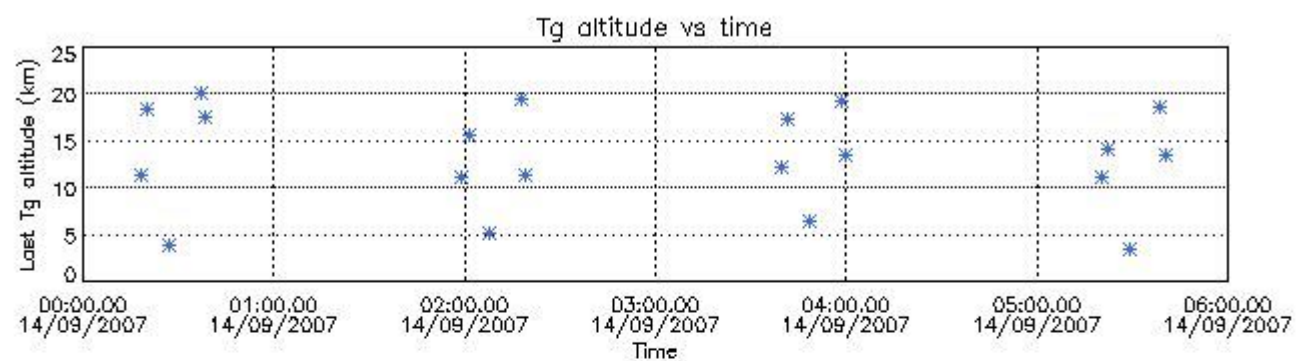
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.132	21.775	14.189
St. deviation:	5.2783	3.1365	3.1352
Maximum:	20.158	29.293	17.785
Minimum:	3.3253	16.833	10.180
Number of data:	20.000	21.000	4.0000

### 6.2 Plot for DARK limb products

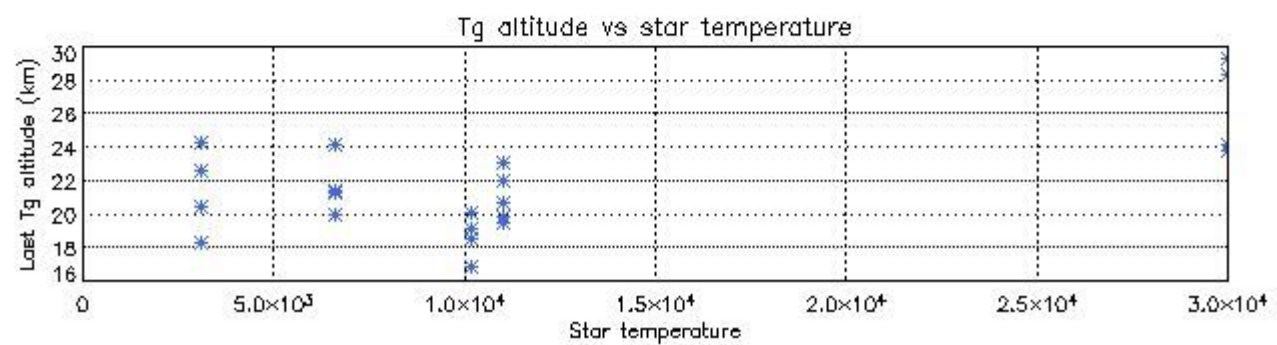
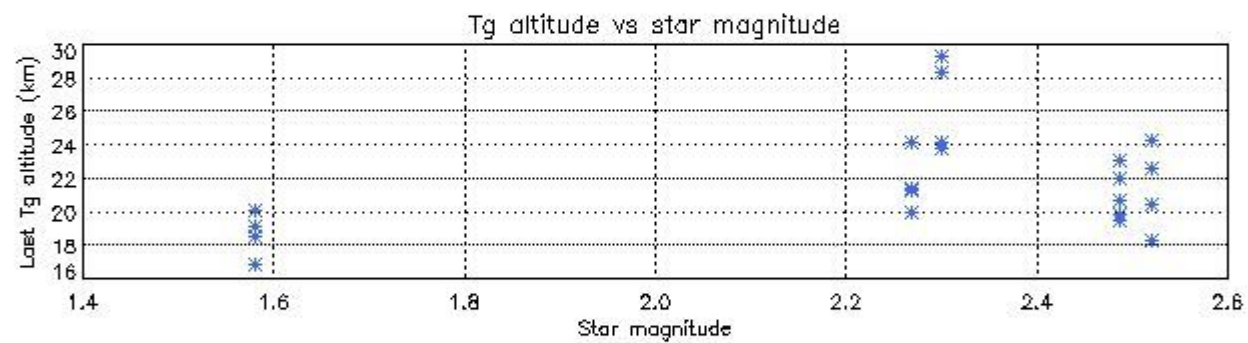
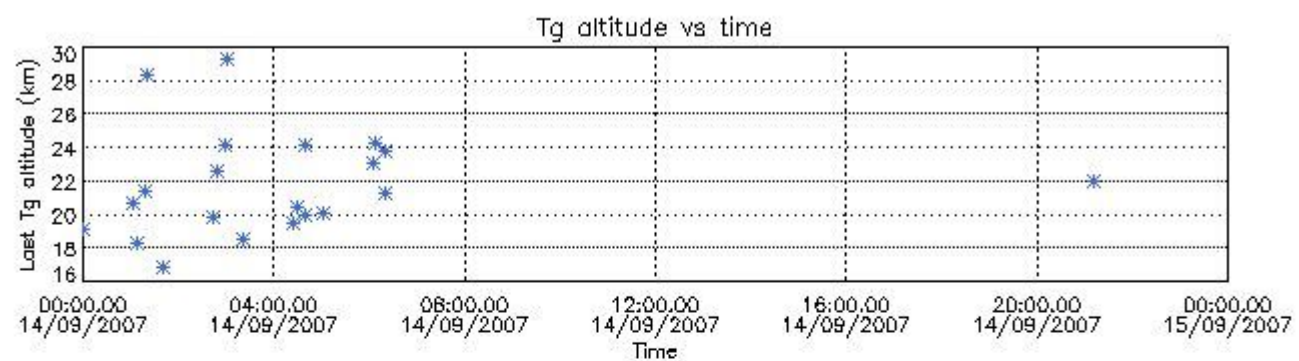
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

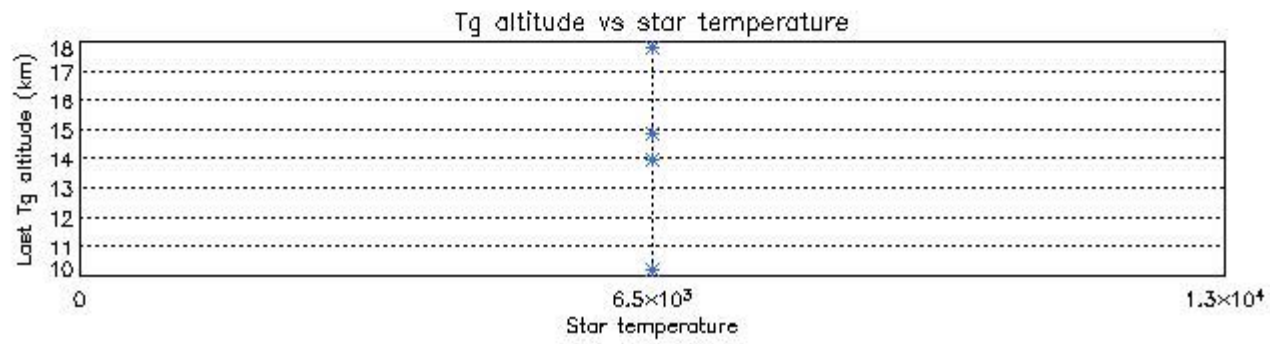
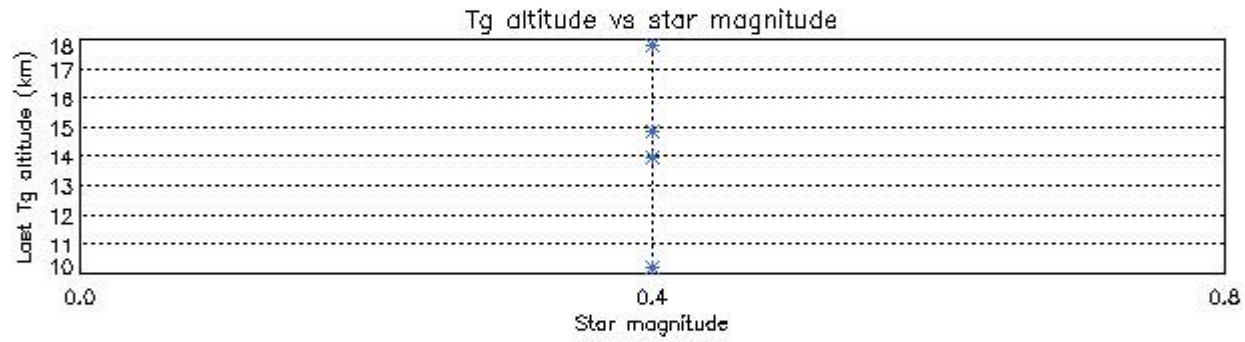
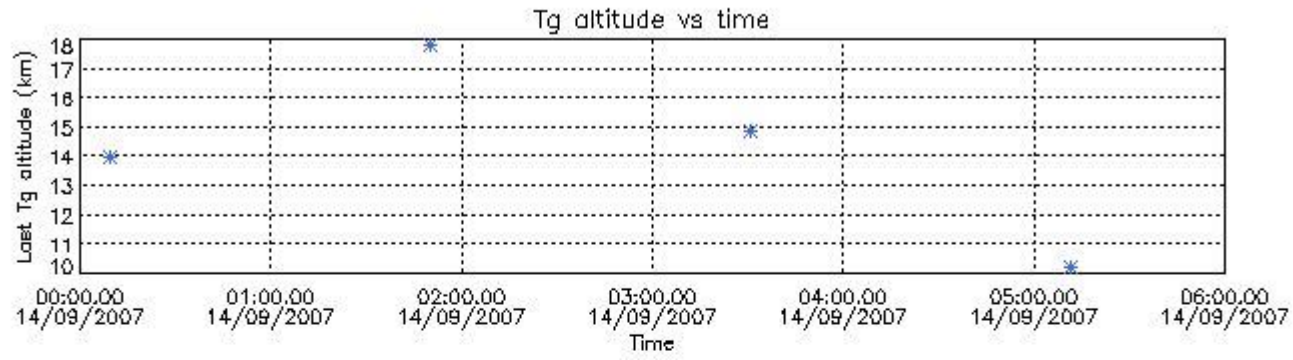


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

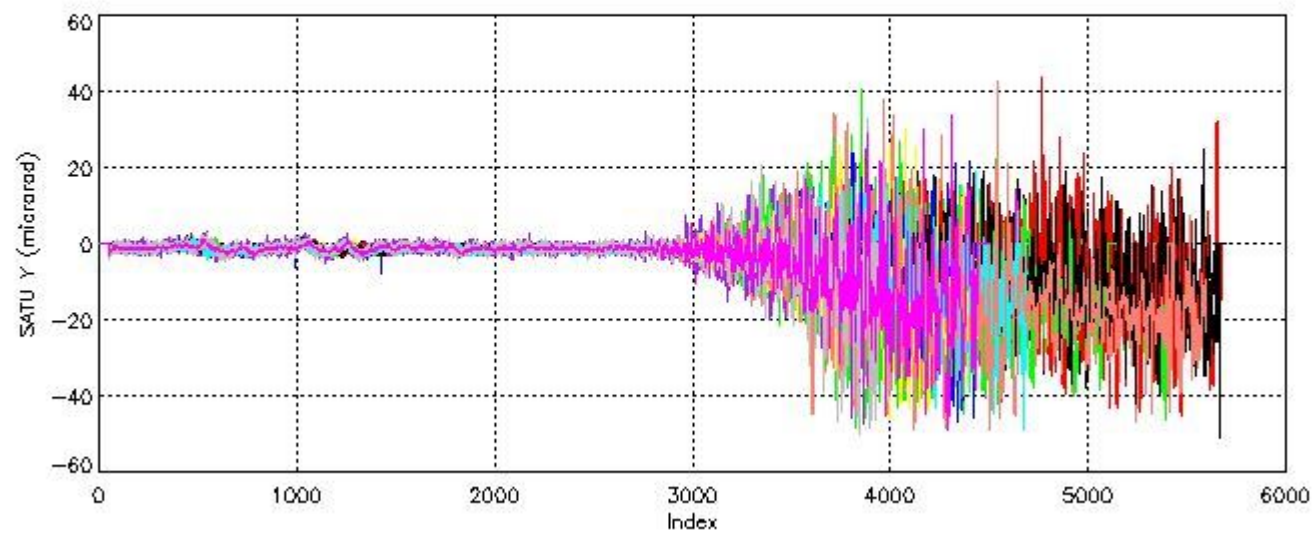
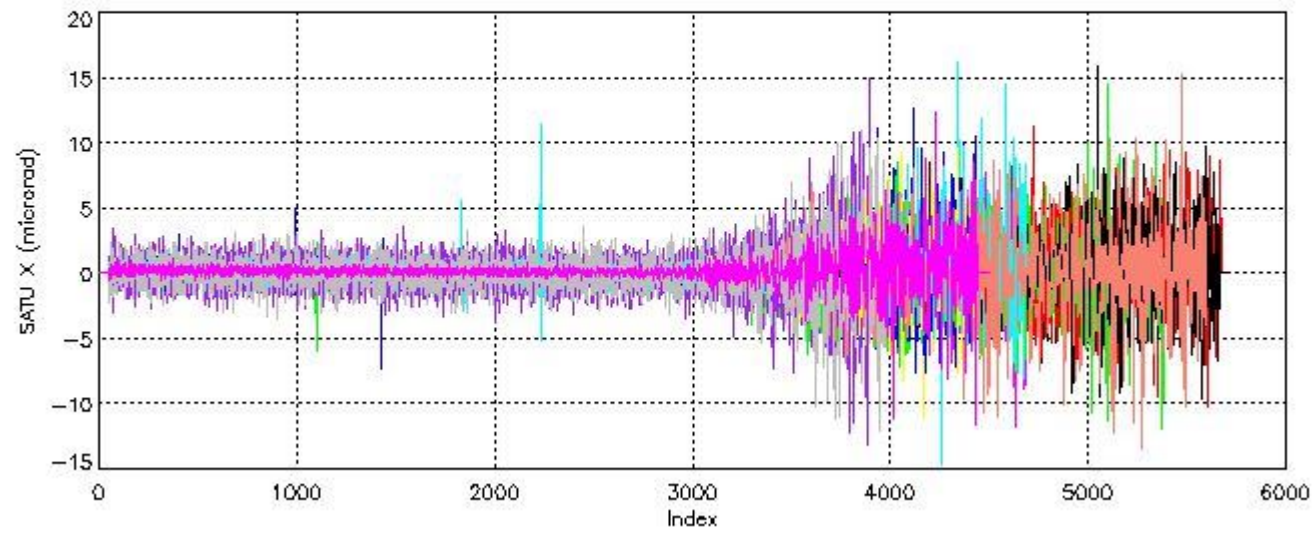


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14057	-1.2105	0.29938	-1.2095
St. deviation:	0.36430	0.87900	0.67756	1.0375
Maximum:	5.0000	3.1000	4.7000	3.4000
Minimum:	-3.3000	-6.2000	-3.5000	-6.9000



Number of data:	20300.	20300.	19800.	19800.
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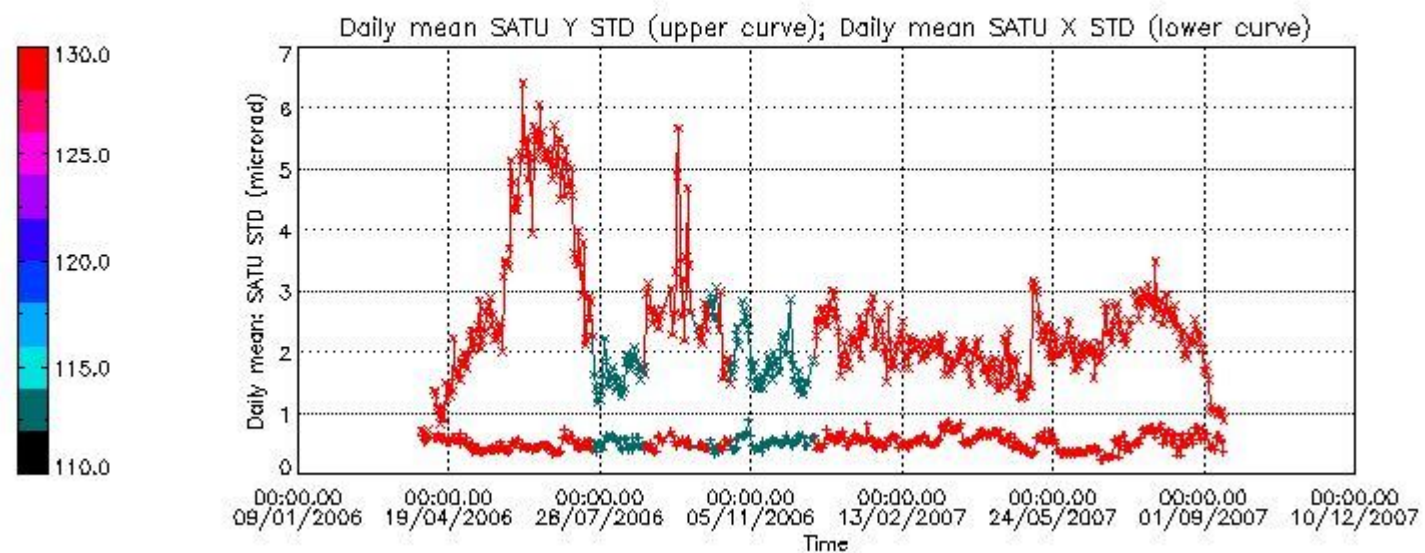
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

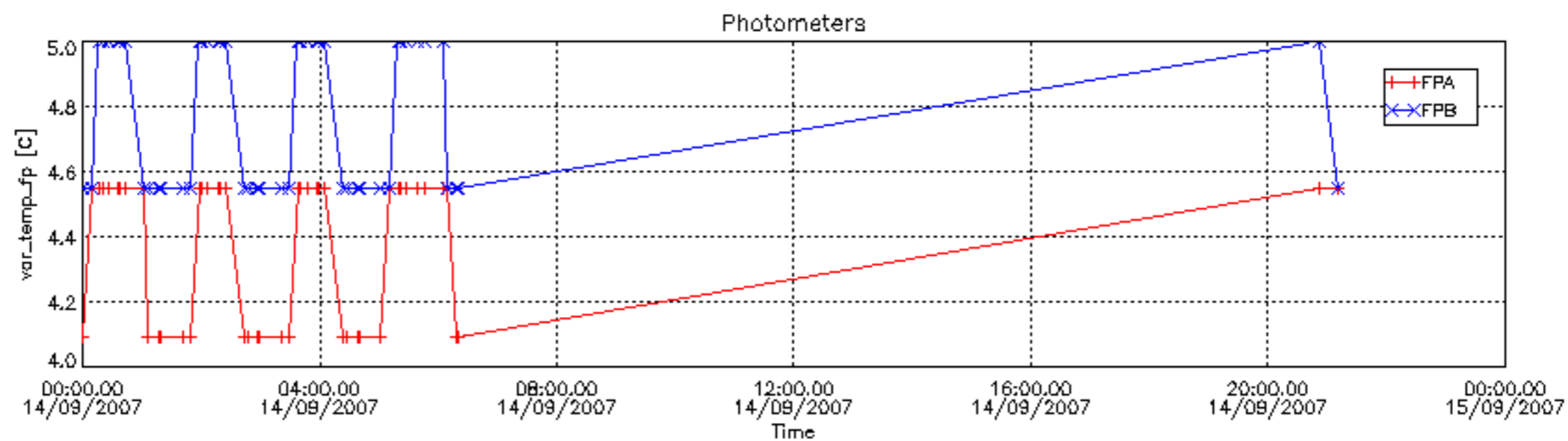
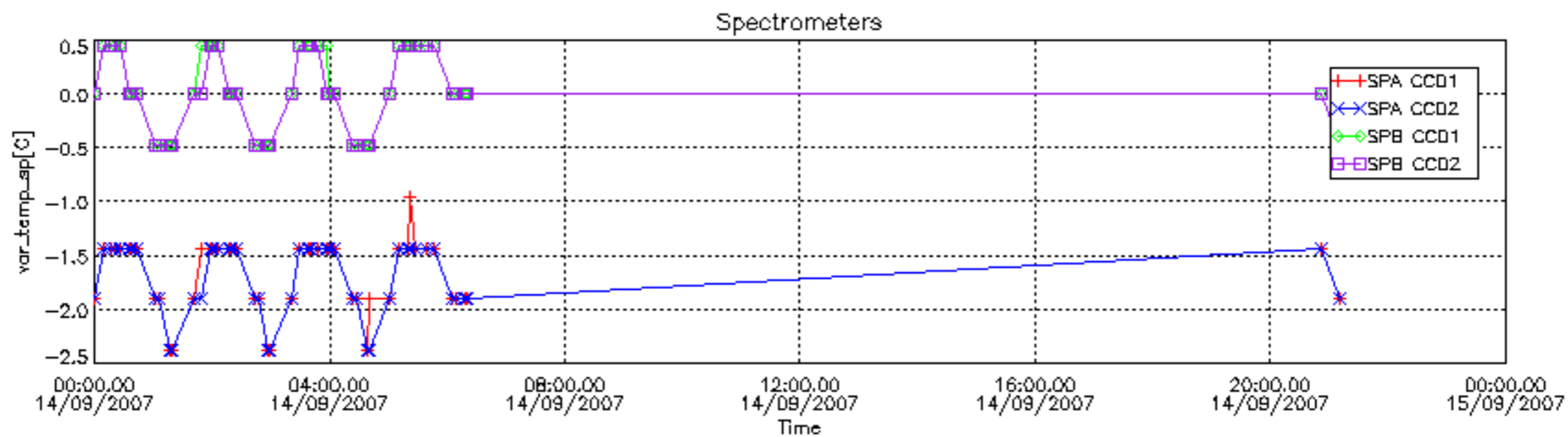


### 8. Auxiliary Data Files used for the production reported in section 2.4

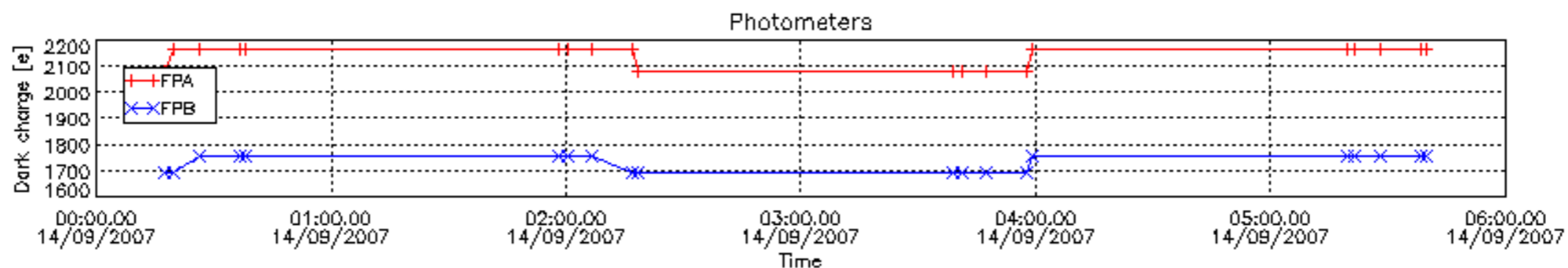
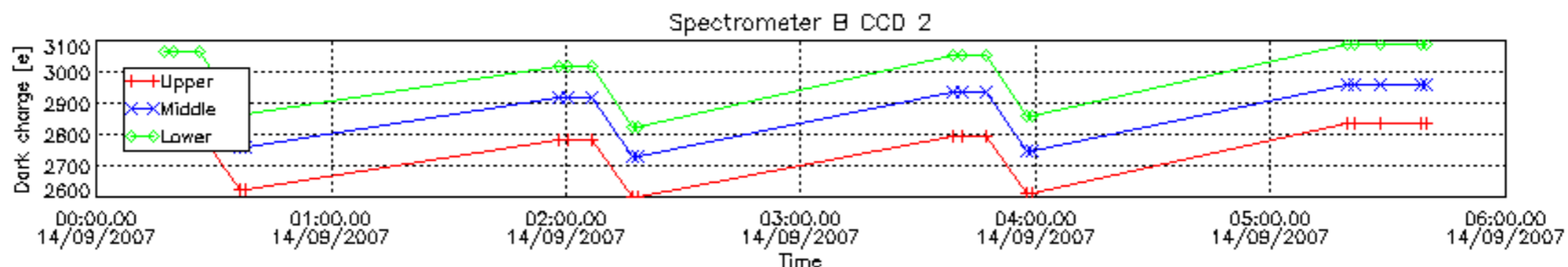
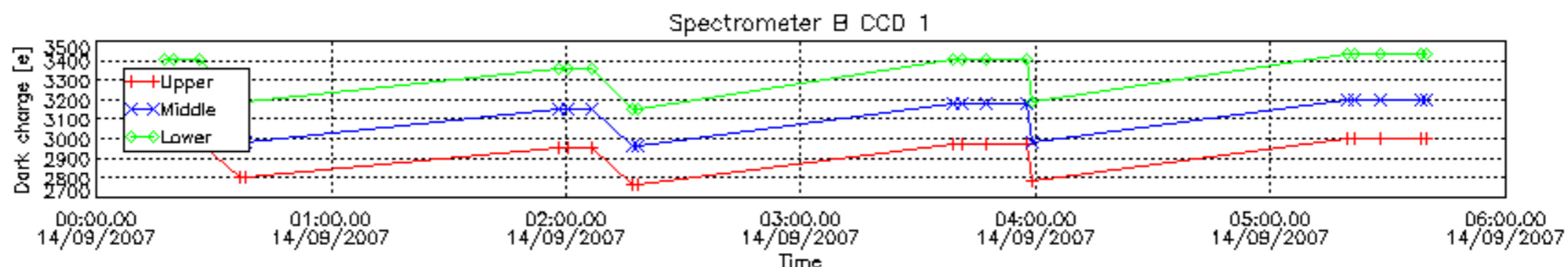
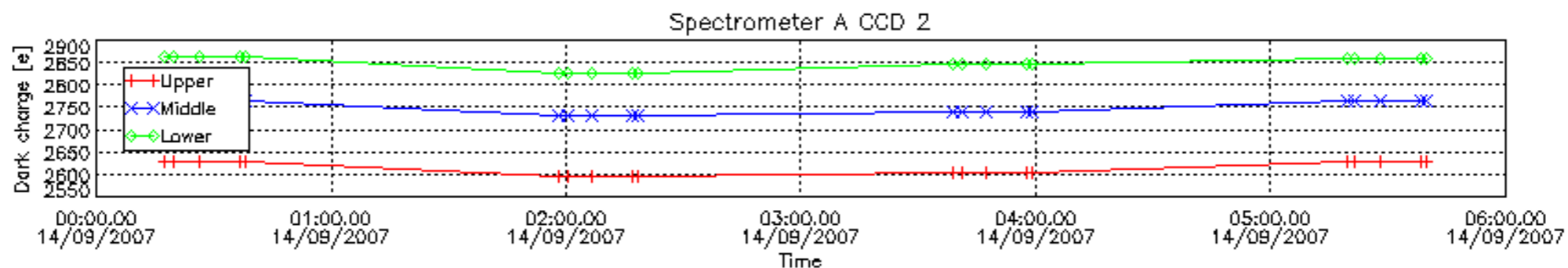
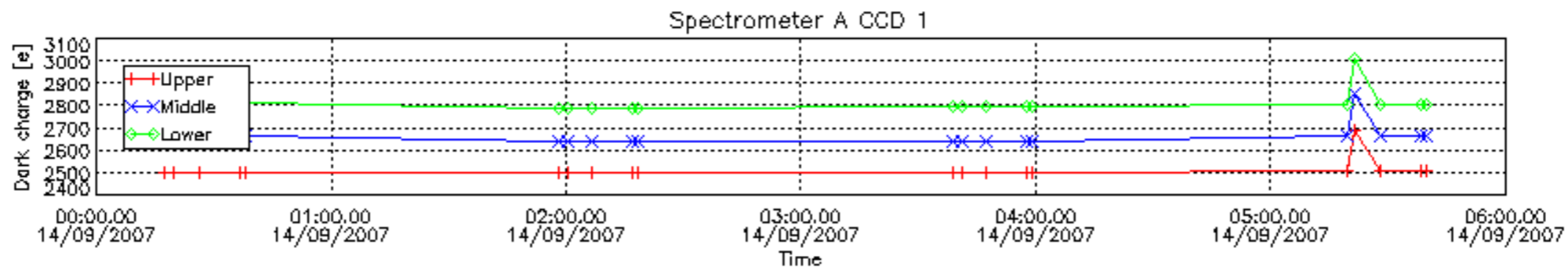
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

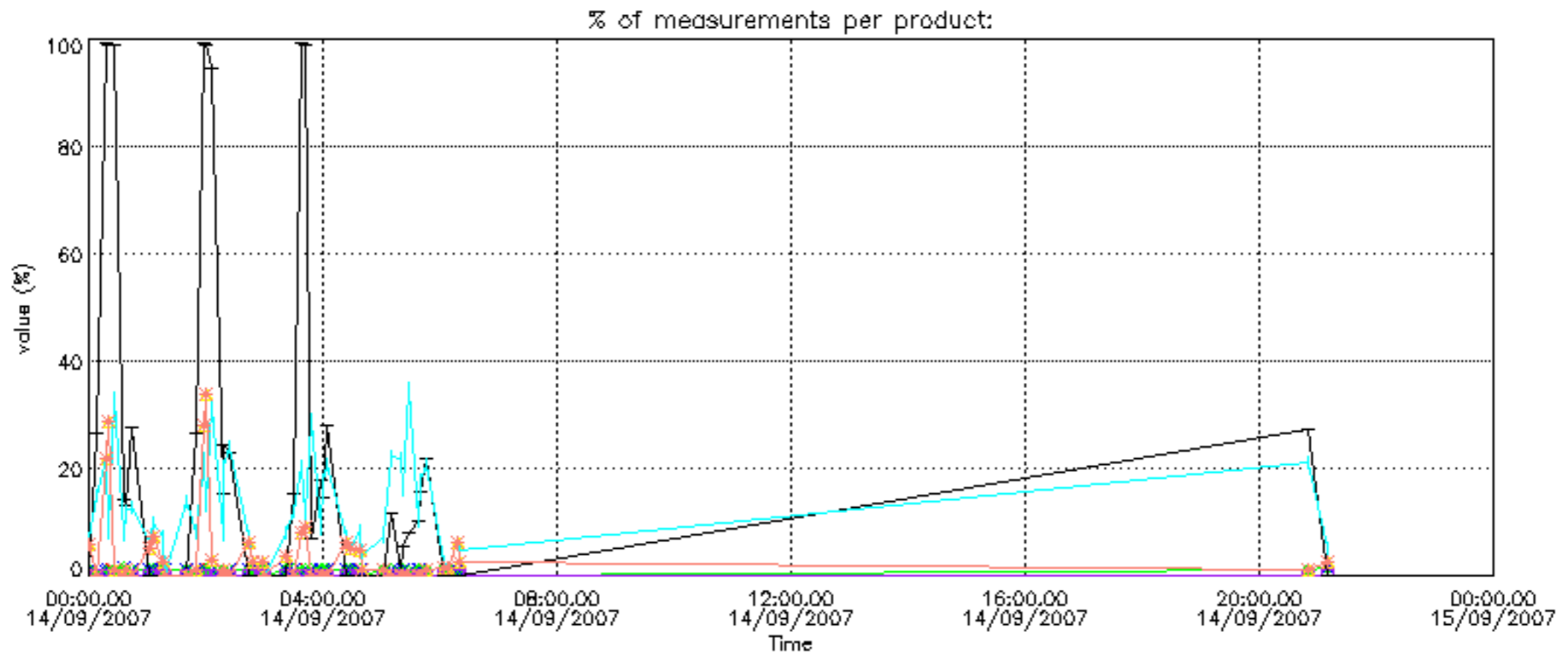
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-SEP-2007 00:00:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	14-SEP-2007 00:00:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-SEP-2007 00:00:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-SEP-2007 00:00:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-SEP-2007 00:00:10
ECMWF_FILE	AUX_ECF_AXNECM20070913_072110_20070913_210000_20070914_090000	1	14-SEP-2007 00:00:10
ECMWF_FILE	AUX_ECF_AXNECM20070913_192112_20070914_030000_20070914_150000	25	14-SEP-2007 03:21:22
ECMWF_FILE	AUX_ECF_AXNECM20070914_071116_20070914_150000_20070915_030000	49	14-SEP-2007 20:50:59
OPTIONAL_ECMWF_FILE	MISSING	1	14-SEP-2007 00:00:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070913_204228_000063762061_00343_28954_4170.N1	1	14-SEP-2007 00:00:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070913_222844_000057382061_00344_28955_4171.N1	3	14-SEP-2007 00:17:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_000940_000057382061_00345_28956_4172.N1	15	14-SEP-2007 01:58:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_015038_000041442061_00346_28957_4173.N1	25	14-SEP-2007 03:21:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_044558_000057382061_00348_28959_4175.N1	37	14-SEP-2007 05:01:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_204738_000038252061_00358_28969_4176.N1	49	14-SEP-2007 20:50:59



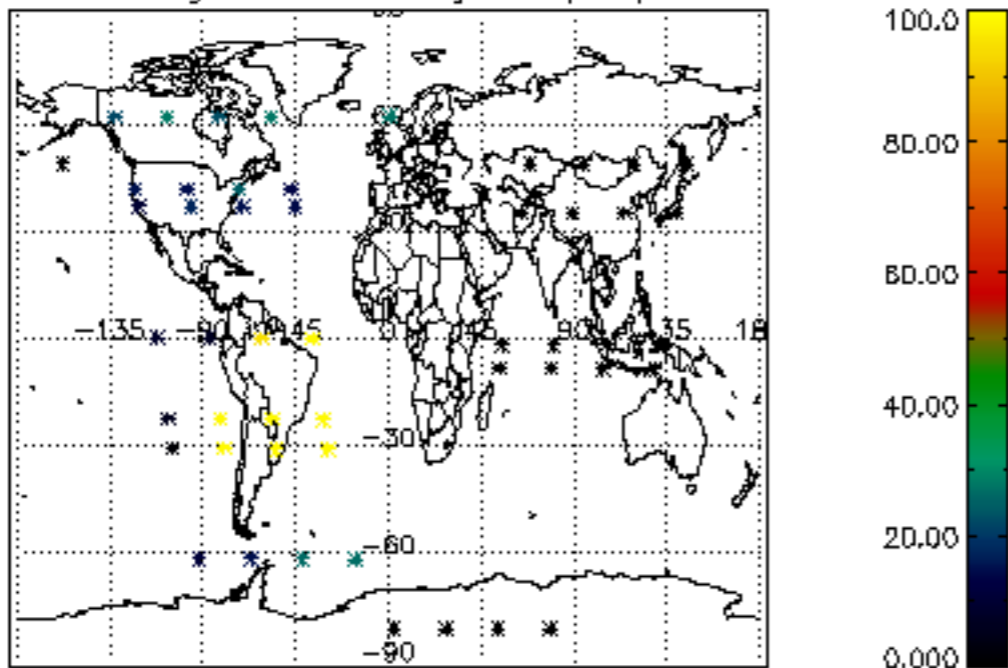




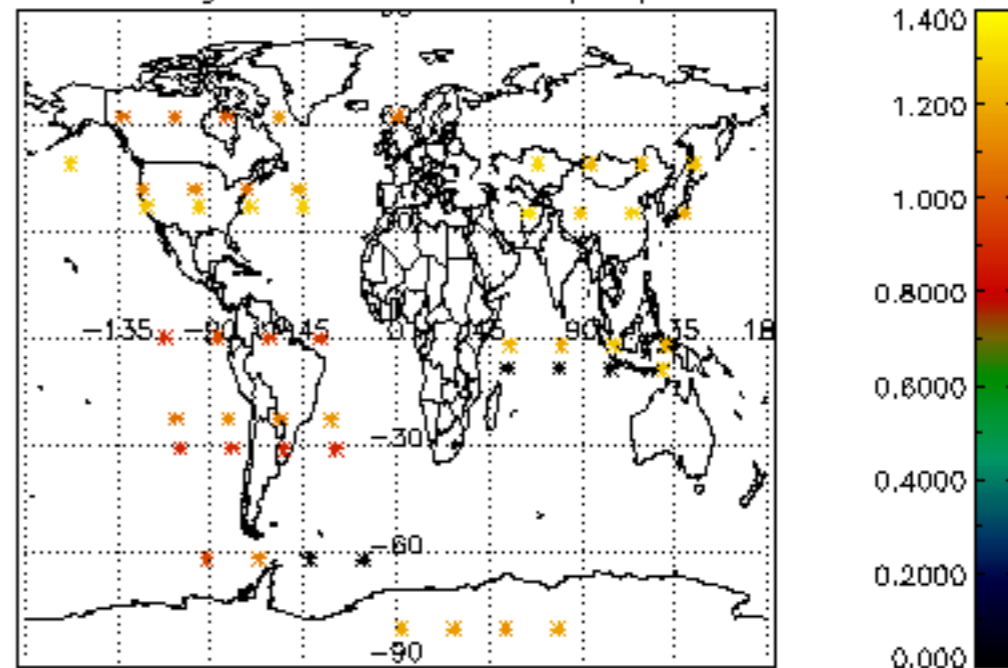




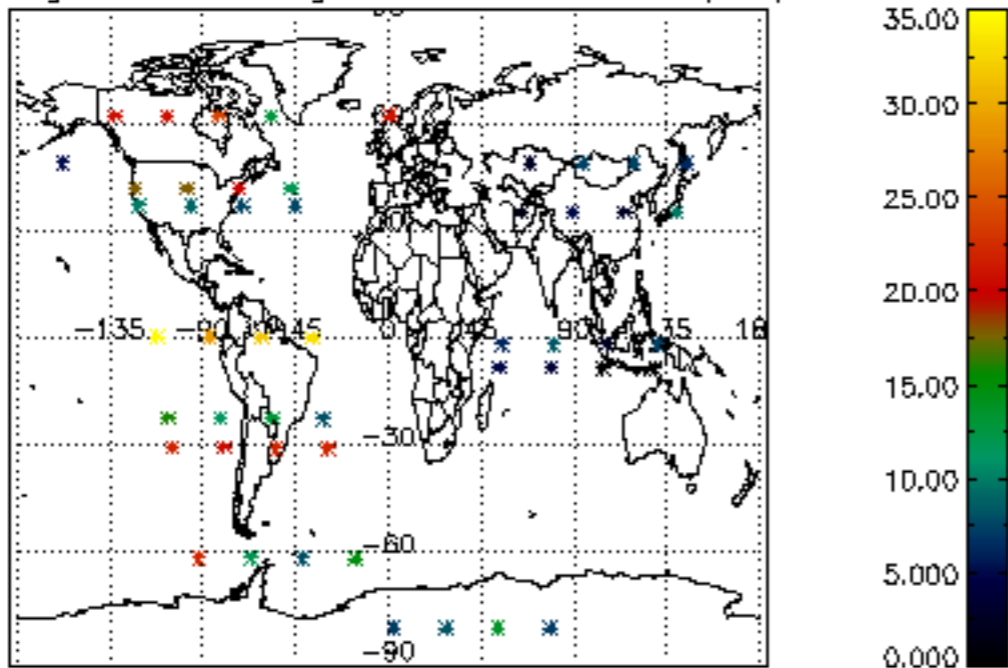
Percentage of cosmic ray hits per profile



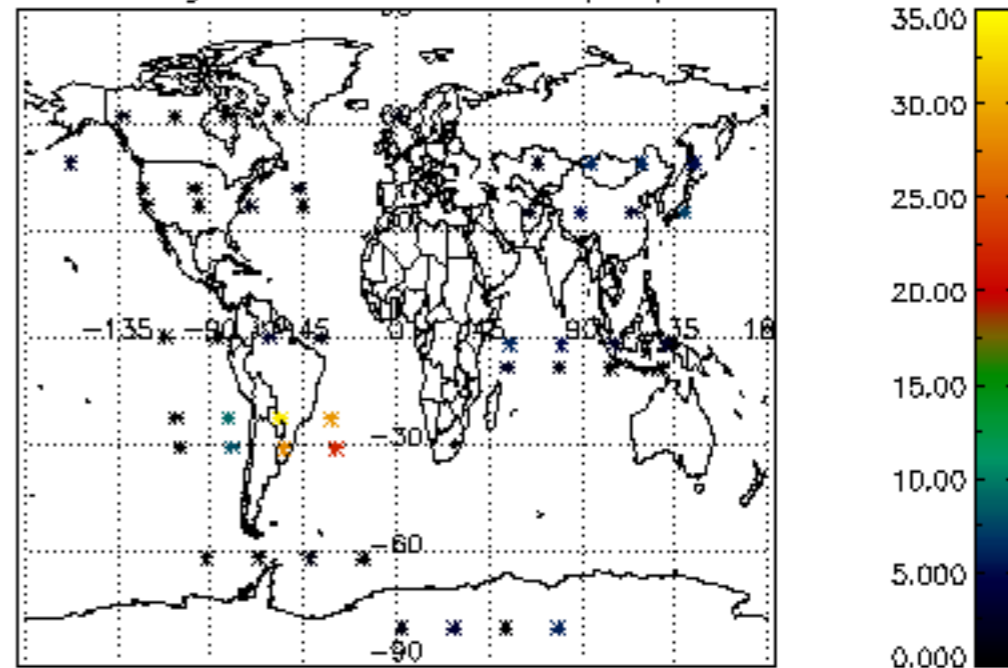
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

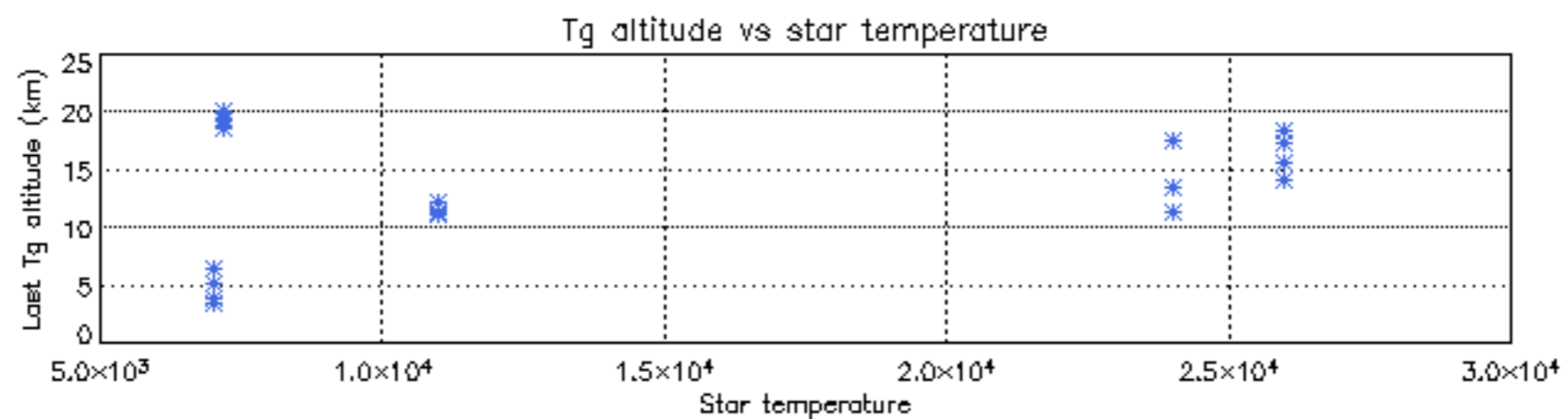
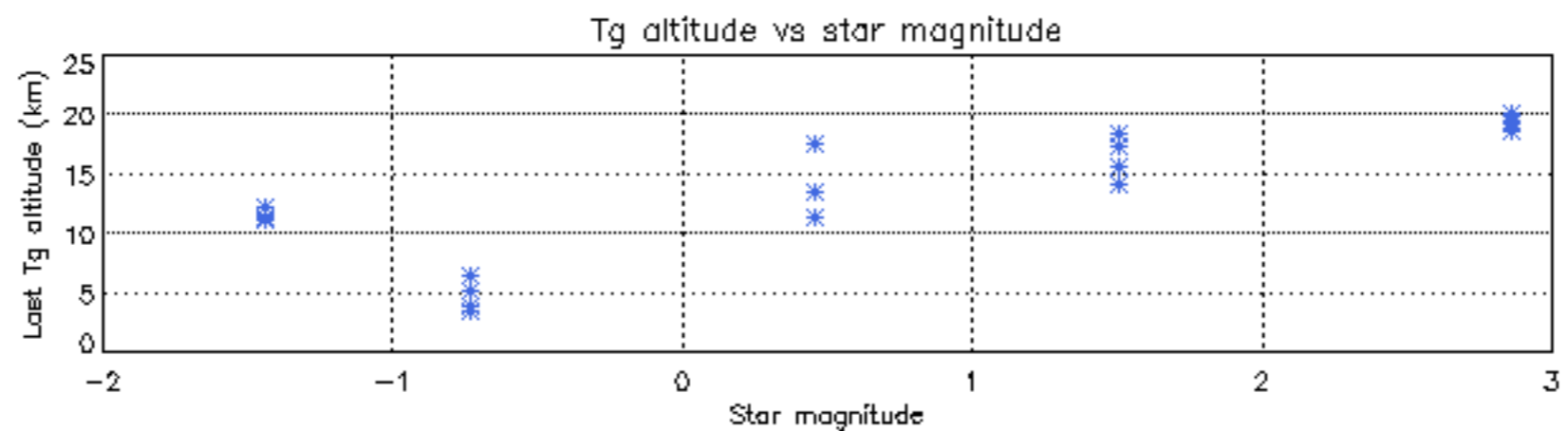
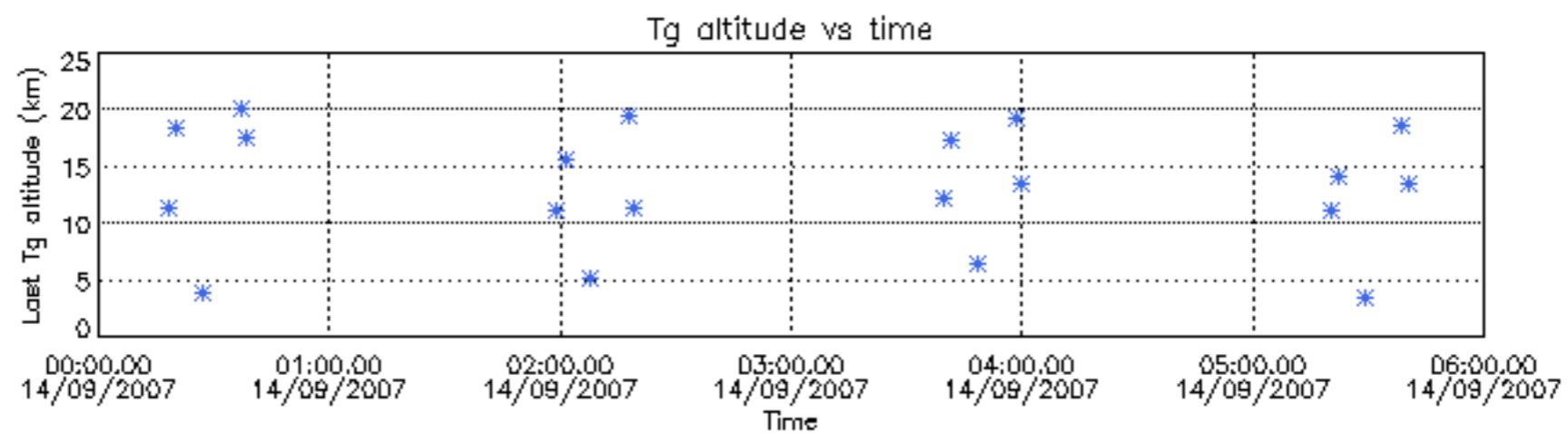


Percentage of saturation errors per profile

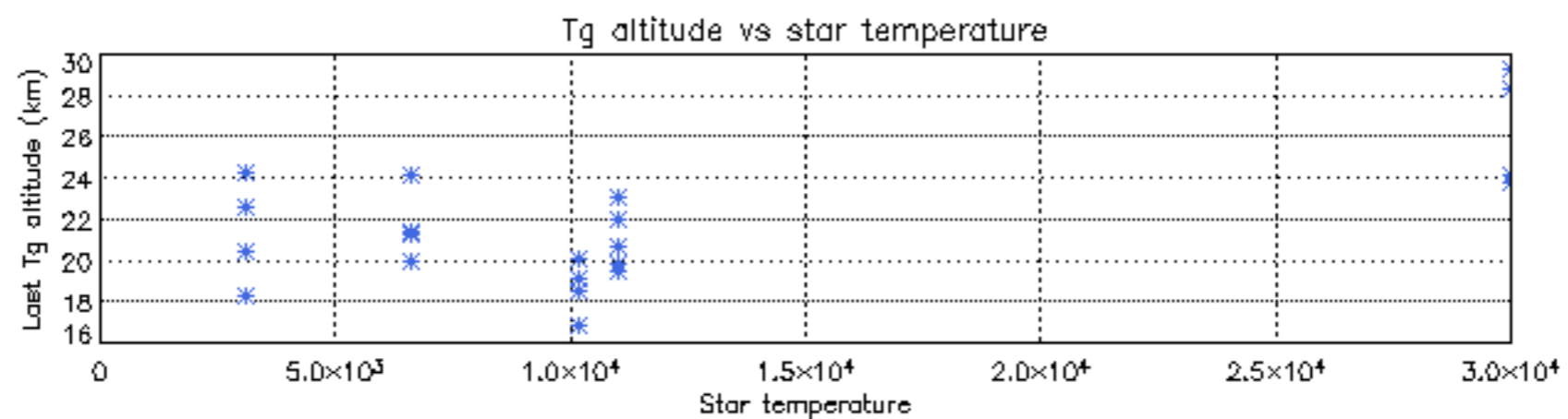
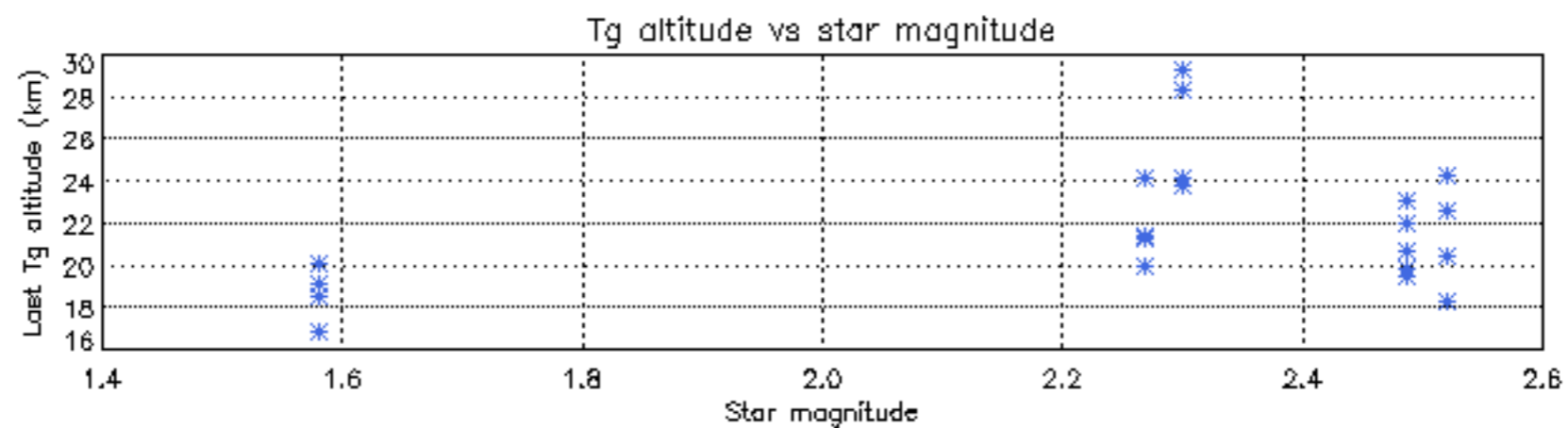
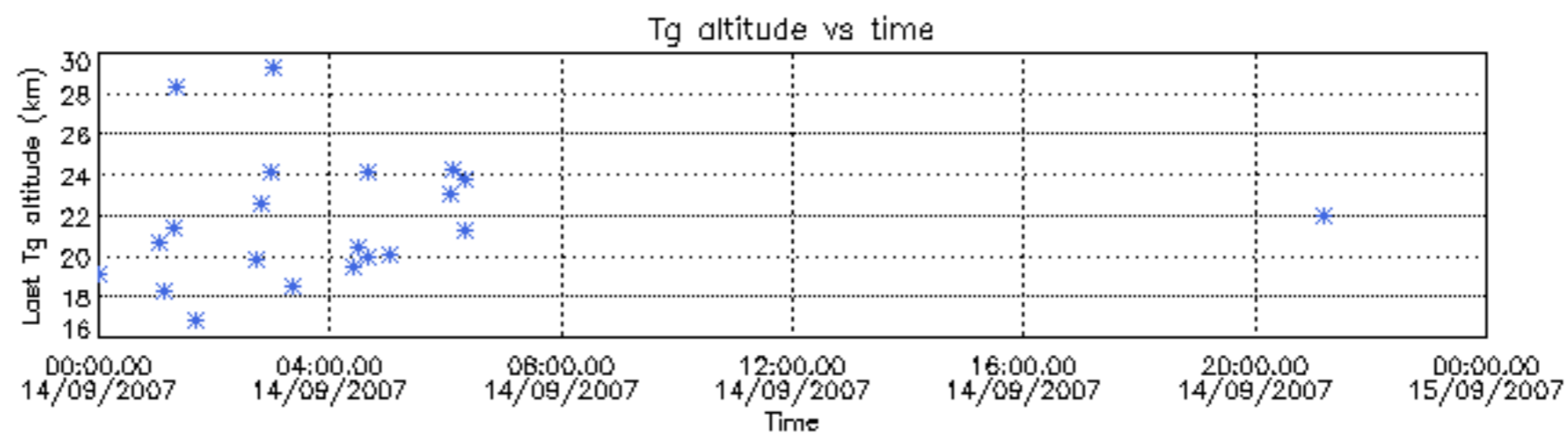




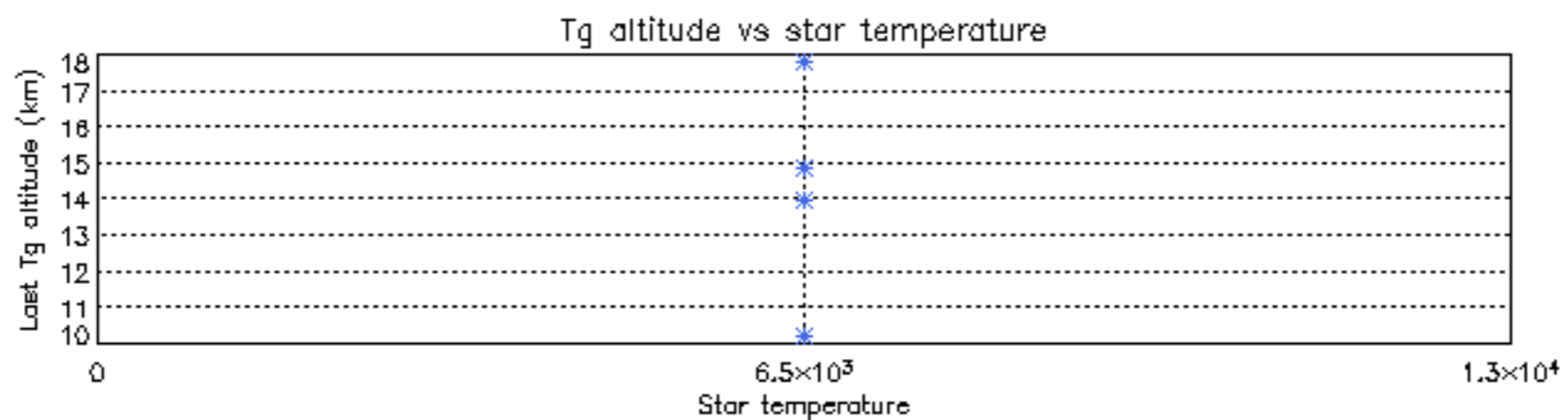
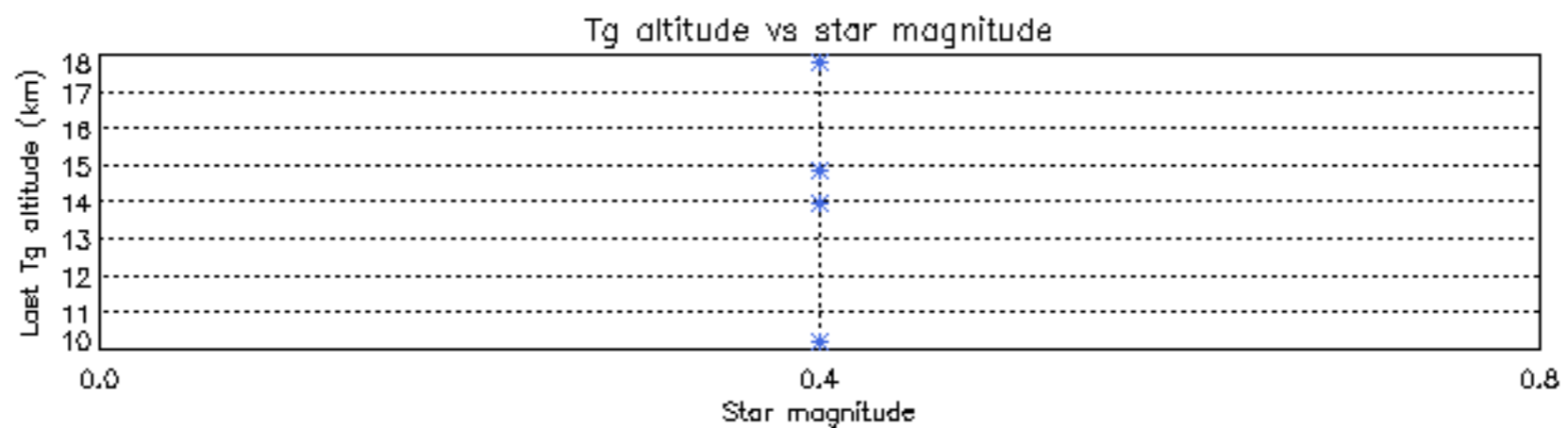
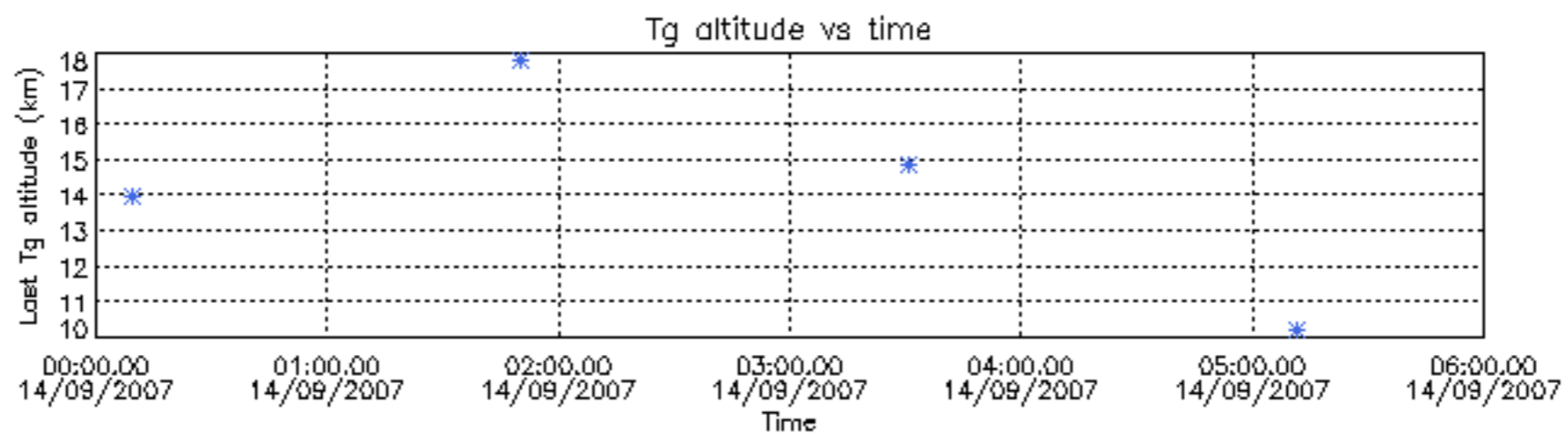
Tangent altitude at which the star is lost

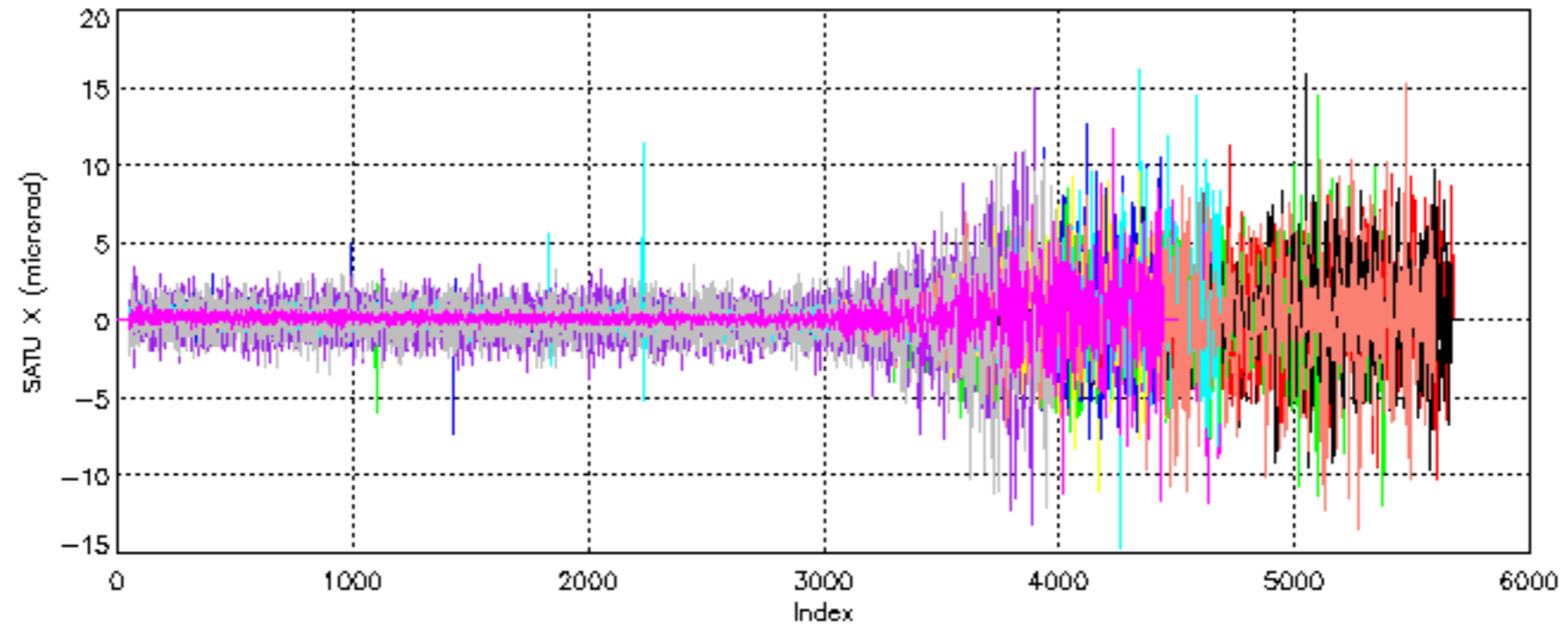


Tangent altitude at which the star is lost

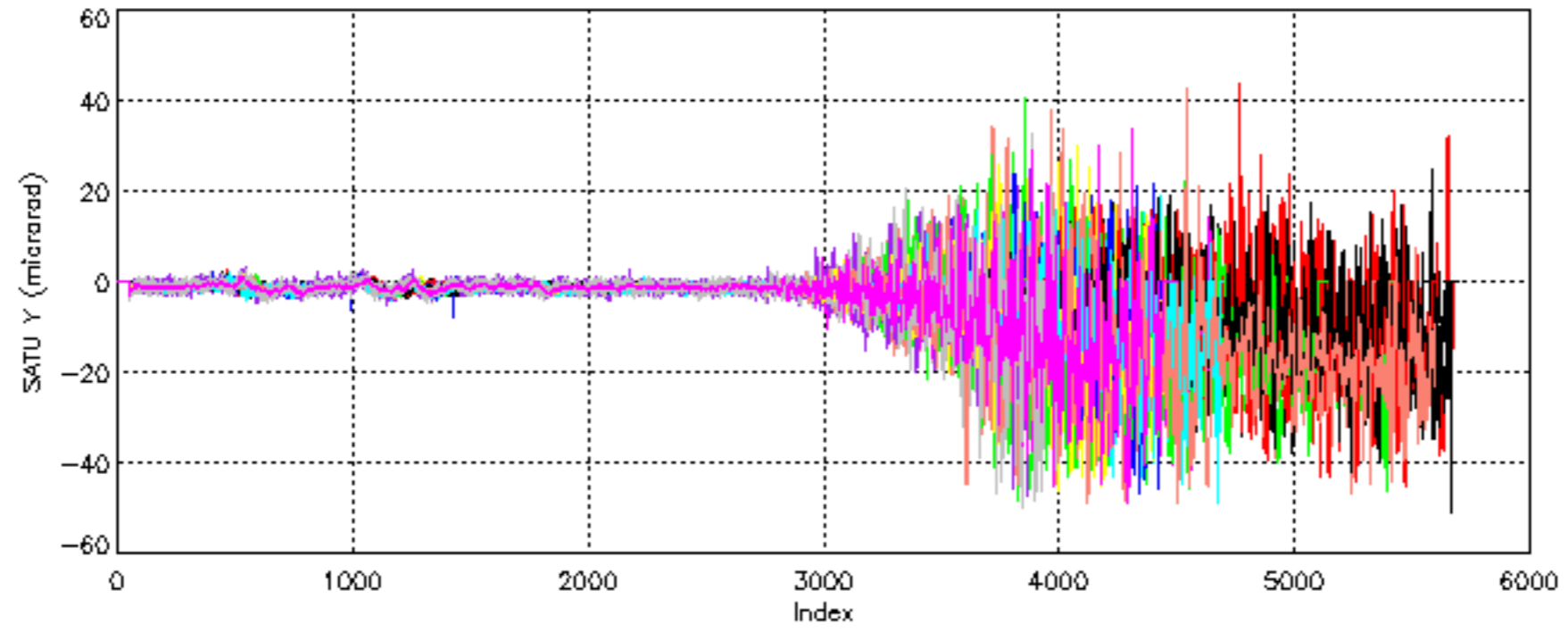


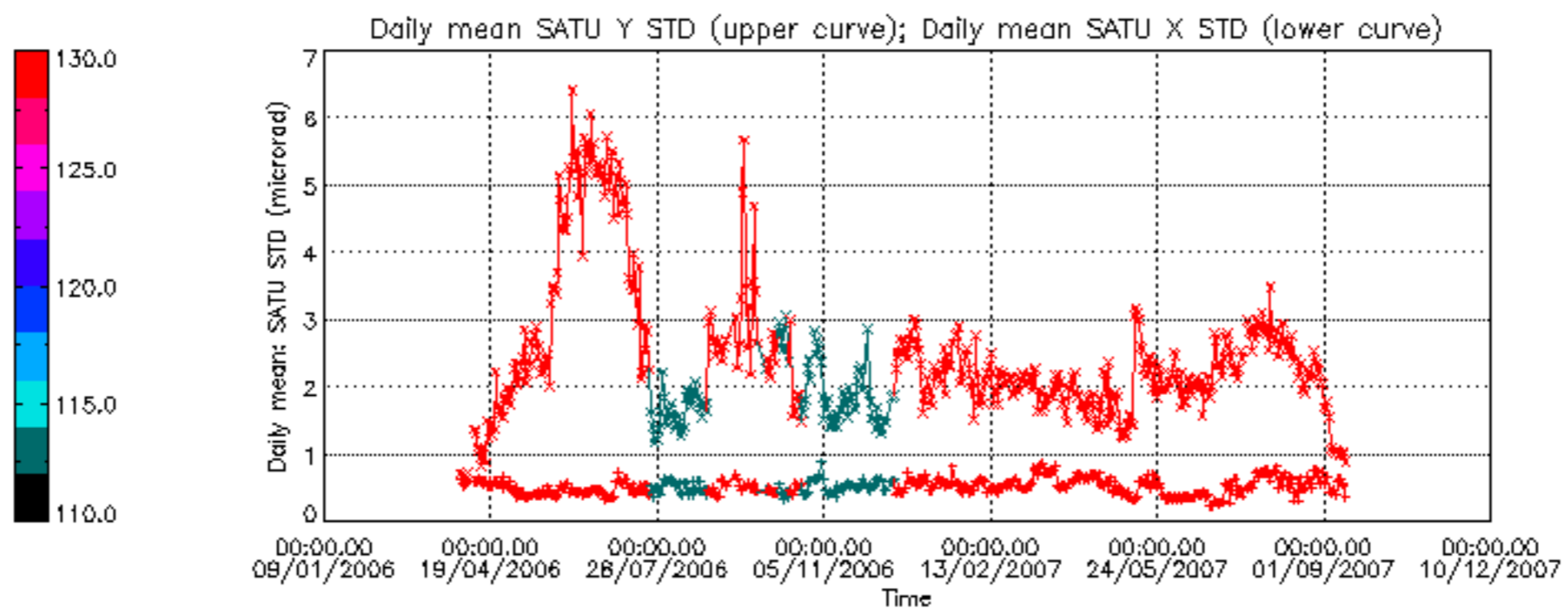
Tangent altitude at which the star is lost











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 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770  
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771  
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771  
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771  
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771  
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771  
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771  
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771  
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771  
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771  
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771  
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771  
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771  
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771  
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771  
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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1; -665.2; 01-SEP-2007 02:04:19; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;28771  
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 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771  
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772  
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772  
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 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772  
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772  
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772  
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772  
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772  
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772  
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772  
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

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 2; -1425.0; 01-SEP-2007 03:32:15; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28772  
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 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772  
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772  
 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772  
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773  
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773  
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773  
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773  
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773  
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 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773  
 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773  
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773  
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773  
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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1; -1584.0; 01-SEP-2007 05:10:12; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28773  
 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773  
 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773  
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773  
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 7; -397.9; 01-SEP-2007 05:29:58; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28773  
 8; -302.8; 01-SEP-2007 05:31:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28773  
 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774  
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774  
 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774  
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774  
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
15; 1896.0; 01-SEP-2007 06:08:12; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28774
16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
19; 3434.8; 01-SEP-2007 06:33:51; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;28774
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 2; 1331.2; 01-SEP-2007 21:04:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28783
 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
 5; 2075.4; 01-SEP-2007 21:16:35; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28783
 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 2; -493.0; 01-SEP-2007 22:14:22; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28783
 3; -296.2; 01-SEP-2007 22:17:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28783
 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
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 8; 1620.4; 01-SEP-2007 22:49:36; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28784
 9; 1808.2; 01-SEP-2007 22:52:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28784
10; 1895.6; 01-SEP-2007 22:54:11; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28784
11; 2075.4; 01-SEP-2007 22:57:11; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28784
12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
14; 4453.4; 01-SEP-2007 23:36:49; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;28784
15; 4613.8; 01-SEP-2007 23:39:29; Dark ; 50.5; 170; 27Eps Gem ; 3.00; 9700;occ; 101; 0;28784
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18; 7088.6; 01-SEP-2007 20:59:32; Dark ; 1.0; 63; Bet Gru ; 2.15; 2800;occ; 2; 0;28782
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 2; -491.9; 02-SEP-2007 01:35:35; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28785
 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
 4; -87.7; 02-SEP-2007 01:42:19; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;28785

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5; 532.1; 02-SEP-2007 01:52:39; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28786  
6; 609.6; 02-SEP-2007 01:53:57; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28786  
7; 1053.6; 02-SEP-2007 02:01:21; Dark ; 43.0; 63; Bet Gru ; 2.15; 2800;occ; 86; 0;28786  
8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786  
9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786  
10; 1808.4; 02-SEP-2007 02:13:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28786  
11; 1895.4; 02-SEP-2007 02:15:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28786  
12; 2075.2; 02-SEP-2007 02:18:22; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28786  
13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786  
14; 3434.5; 02-SEP-2007 02:41:02; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28786

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2; -1421.7; 02-SEP-2007 03:00:41; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28786  
3; -1118.2; 02-SEP-2007 03:05:45; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28786  
4; -656.0; 02-SEP-2007 03:13:27; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;28786  
5; -491.3; 02-SEP-2007 03:16:12; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28786  
6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786  
7; -294.2; 02-SEP-2007 03:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28786  
8; -87.1; 02-SEP-2007 03:22:56; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;28786  
9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
10; 610.4; 02-SEP-2007 03:34:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28787  
11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787  
12; 1332.4; 02-SEP-2007 03:46:35; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28787  
13; 1620.8; 02-SEP-2007 03:51:24; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28787  
14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787  
15; 1895.7; 02-SEP-2007 03:55:59; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28787  
16; 2075.4; 02-SEP-2007 03:58:58; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28787  
17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787  
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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2; -1421.4; 02-SEP-2007 04:41:18; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28787  
3; -1117.9; 02-SEP-2007 04:46:21; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28787  
4; -655.4; 02-SEP-2007 04:54:04; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;28787  
5; -490.8; 02-SEP-2007 04:56:48; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28787  
6; -388.0; 02-SEP-2007 04:58:31; Dark ; 42.5; 177; 1Zet CMA ; 3.02; 26000;occ; 85; 0;28787  
7; -293.5; 02-SEP-2007 05:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28787  
8; -86.7; 02-SEP-2007 05:03:32; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;28787  
9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788  
10; 610.8; 02-SEP-2007 05:15:10; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28788  
11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788  
12; 1332.6; 02-SEP-2007 05:27:11; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28788  
13; 1621.1; 02-SEP-2007 05:32:00; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;28788  
14; 1808.7; 02-SEP-2007 05:35:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28788  
15; 1895.6; 02-SEP-2007 05:36:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28788  
16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788  
17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788  
18; 3434.6; 02-SEP-2007 06:02:14; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28788

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2; 1335.0; 02-SEP-2007 20:32:37; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28797  
3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797  
4; 1809.5; 02-SEP-2007 20:40:32; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28797  
5; 1895.5; 02-SEP-2007 20:41:58; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28797  
6; 2074.9; 02-SEP-2007 20:44:57; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28797  
7; 2974.1; 02-SEP-2007 20:59:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28797  
8; 3434.4; 02-SEP-2007 21:07:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28797  
9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797  
10; 4921.2; 02-SEP-2007 21:32:24; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28797

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2; -485.5; 02-SEP-2007 21:42:53; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28797  
3; -380.8; 02-SEP-2007 21:44:37; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28797  
4; -286.8; 02-SEP-2007 21:46:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28797  
5; -204.7; 02-SEP-2007 21:47:33; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28797  
6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797  
7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798  
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798



9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798  
 10; 1335.3; 02-SEP-2007 22:13:13; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28798  
 11; 1622.4; 02-SEP-2007 22:18:01; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;28798  
 12; 1809.6; 02-SEP-2007 22:21:08; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28798  
 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798  
 14; 2074.8; 02-SEP-2007 22:25:33; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28798  
 15; 2974.0; 02-SEP-2007 22:40:32; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28798  
 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798  
 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798  
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798  
 19; 5387.6; 02-SEP-2007 23:20:46; Dark ; 12.0; 1; 9Alp CMA ; -1.44; 11000;occ; 24; 0;28798

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 2; -484.9; 02-SEP-2007 23:23:29; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28798  
 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798  
 4; -81.6; 02-SEP-2007 23:30:12; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28798  
 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799  
 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799  
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799  
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799  
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799  
 10; 1809.6; 03-SEP-2007 00:01:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28799  
 11; 1895.5; 03-SEP-2007 00:03:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28799  
 12; 2074.8; 03-SEP-2007 00:06:09; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28799  
 13; 2973.9; 03-SEP-2007 00:21:08; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28799  
 14; 3434.5; 03-SEP-2007 00:28:48; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28799  
 15; 4455.5; 03-SEP-2007 00:45:50; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28799  
 16; 4921.9; 03-SEP-2007 00:53:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28799  
 17; 5388.2; 03-SEP-2007 01:01:22; Dark ; 30.5; 1; 9Alp CMA ; -1.44; 11000;occ; 61; 0;28799

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 3; -1117.6; 02-SEP-2007 06:26:57; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28788  
 4; -654.7; 02-SEP-2007 06:34:40; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;28788  
 5; -490.2; 02-SEP-2007 06:37:25; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;28788  
 6; -387.2; 02-SEP-2007 06:39:08; Dark ; 43.5; 177; 1Zet CMA ; 3.02; 26000;occ; 87; 0;28788  
 7; -292.8; 02-SEP-2007 06:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28788  
 8; -86.2; 02-SEP-2007 06:44:09; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28788  
 9; 533.9; 02-SEP-2007 06:54:29; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28789  
 10; 611.4; 02-SEP-2007 06:55:46; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28789  
 11; 1054.6; 02-SEP-2007 07:03:09; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28789  
 12; 1333.0; 02-SEP-2007 07:07:48; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28789  
 13; 1621.3; 02-SEP-2007 07:12:36; Dark ; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;28789

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 5; 4454.2; 02-SEP-2007 07:59:49; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28789  
 6; 4615.0; 02-SEP-2007 08:02:30; Dark ; 44.0; 170; 27Eps Gem ; 3.00; 9700;occ; 88; 0;28789  
 7; 4918.7; 02-SEP-2007 08:07:34; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28789  
 8; 5381.9; 02-SEP-2007 08:15:17; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;28789  
 9; 5546.2; 02-SEP-2007 08:18:01; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;28789  
 10; 5649.4; 02-SEP-2007 08:19:44; Dark ; 41.0; 177; 1Zet CMA ; 3.02; 26000;occ; 82; 0;28789  
 11; 5743.7; 02-SEP-2007 08:21:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28789  
 12; 5950.2; 02-SEP-2007 08:24:45; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;28789  
 13; 6570.4; 02-SEP-2007 08:35:05; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28789  
 14; 6648.0; 02-SEP-2007 08:36:23; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;28789  
 15; 7090.9; 02-SEP-2007 08:43:46; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;28789  
 16; 7369.2; 02-SEP-2007 08:48:24; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28789  
 17; 7657.2; 02-SEP-2007 08:53:12; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28789  
 18; 7844.9; 02-SEP-2007 08:56:20; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;28789

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 4; 2974.6; 02-SEP-2007 09:15:45; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28790  
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7; 4615.3; 02-SEP-2007 09:43:06; Dark ; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;28790
8; 4919.0; 02-SEP-2007 09:48:10; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;28790
9; 5382.5; 02-SEP-2007 09:55:53; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;28790
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14; 6570.9; 02-SEP-2007 10:15:42; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28790
15; 6648.6; 02-SEP-2007 10:16:59; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;28790
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17; 7369.4; 02-SEP-2007 10:29:00; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28790
18; 7657.4; 02-SEP-2007 10:33:48; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28790
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 7; 4456.9; 03-SEP-2007 15:51:14; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28808  
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 9; 5394.3; 03-SEP-2007 16:06:52; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28808  
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 13; 5841.6; 03-SEP-2007 16:14:19; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28808  
 14; 5959.1; 03-SEP-2007 16:16:16; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;28808  
 15; 6580.9; 03-SEP-2007 16:26:38; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28808  
 16; 6659.5; 03-SEP-2007 16:27:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28808  
 17; 7096.7; 03-SEP-2007 16:35:14; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;28808

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 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809  
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 18; 7096.9; 03-SEP-2007 18:15:50; Dark ; 36.5; 63; Bet Gru ; 2.15; 2800;occ; 73; 0;28809

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 9; 4457.2; 03-SEP-2007 19:12:26; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28810  
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 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810  
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 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
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 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
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 7; 3162.6; 04-SEP-2007 06:35:03; Bright; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
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 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
 6; 3958.7; 04-SEP-2007 23:34:19; Bright; 101.0; 79; 26Bet Per ; 2.31; 13100;occ; 202; 0;28827
 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
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 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
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 9; 5704.6; 23-SEP-2007 09:00:50; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29090  
 10; 5791.4; 23-SEP-2007 09:02:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29090  
 11; 5903.0; 23-SEP-2007 09:04:09; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29090  
 12; 5997.2; 23-SEP-2007 09:05:43; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29090  
 13; 6623.9; 23-SEP-2007 09:16:10; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;29090  
 14; 6720.1; 23-SEP-2007 09:17:46; Dark ; 28.0; 143; Alp Hyi ; 2.86; 7200;occ; 56; 0;29090  
 15; 7161.2; 23-SEP-2007 09:25:07; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;29090  
 16; 7436.3; 23-SEP-2007 09:29:42; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29090

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1; 1919.9; 23-SEP-2007 09:38:22; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29091  
 2; 2103.5; 23-SEP-2007 09:41:25; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;29091  
 3; 2981.0; 23-SEP-2007 09:56:03; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29091  
 4; 3430.1; 23-SEP-2007 10:03:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29091  
 5; 3518.4; 23-SEP-2007 10:05:00; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29091  
 6; 3889.7; 23-SEP-2007 10:11:11; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;29091  
 7; 3978.0; 23-SEP-2007 10:12:40; Bright; 33.5; 82; 48Bet UMA ; 2.37; 10600;occ; 67; 0;29091  
 8; 4166.6; 23-SEP-2007 10:15:48; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29091  
 9; 5704.8; 23-SEP-2007 10:41:27; Dark ; 41.5; 65; Lam Vel ; 2.20; 4400;occ; 83; 0;29091  
 10; 5791.6; 23-SEP-2007 10:42:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29091  
 11; 5903.3; 23-SEP-2007 10:44:45; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29091  
 12; 5997.4; 23-SEP-2007 10:46:19; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;29091  
 13; 6623.9; 23-SEP-2007 10:56:46; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29091  
 14; 6720.5; 23-SEP-2007 10:58:22; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29091  
 15; 7161.3; 23-SEP-2007 11:05:43; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;29091  
 16; 7436.4; 23-SEP-2007 11:10:18; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;29091

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1; 1920.1; 23-SEP-2007 11:18:58; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;29092  
 2; 2103.7; 23-SEP-2007 11:22:01; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29092  
 3; 2981.2; 23-SEP-2007 11:36:39; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29092  
 4; 3518.9; 23-SEP-2007 11:45:36; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29092  
 5; 3889.9; 23-SEP-2007 11:51:48; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;29092  
 6; 3978.1; 23-SEP-2007 11:53:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29092  
 7; 4166.7; 23-SEP-2007 11:56:24; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29092  
 8; 5705.1; 23-SEP-2007 12:22:03; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29092  
 9; 5791.9; 23-SEP-2007 12:23:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29092  
 10; 5903.5; 23-SEP-2007 12:25:21; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29092  
 11; 5997.7; 23-SEP-2007 12:26:55; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;29092  
 12; 6624.1; 23-SEP-2007 12:37:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29092  
 13; 6720.9; 23-SEP-2007 12:38:58; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29092  
 14; 7161.5; 23-SEP-2007 12:46:19; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;29092  
 15; 7436.6; 23-SEP-2007 12:50:54; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;29092

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1; 1920.2; 23-SEP-2007 12:59:34; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;29093  
 2; 2103.9; 23-SEP-2007 13:02:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29093  
 3; 2981.3; 23-SEP-2007 13:17:15; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;29093  
 4; 3430.2; 23-SEP-2007 13:24:44; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29093  
 5; 3519.2; 23-SEP-2007 13:26:13; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29093

6; 3890.1; 23-SEP-2007 13:32:24; Bright; 32.5; 36; 50Alp UMA ; 1.80; 6300;occ; 65; 0;29093  
7; 3978.3; 23-SEP-2007 13:33:52; Bright; 34.0; 82; 48Bet UMA ; 2.37; 10600;occ; 68; 0;29093  
8; 4167.0; 23-SEP-2007 13:37:00; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29093  
9; 5705.5; 23-SEP-2007 14:02:39; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;29093  
10; 5792.3; 23-SEP-2007 14:04:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29093  
11; 5903.8; 23-SEP-2007 14:05:57; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29093  
12; 5998.0; 23-SEP-2007 14:07:31; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29093  
13; 6624.2; 23-SEP-2007 14:17:58; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;29093  
14; 6721.4; 23-SEP-2007 14:19:35; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29093  
15; 7161.7; 23-SEP-2007 14:26:55; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;29093  
16; 7436.8; 23-SEP-2007 14:31:30; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;29093

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1; 1400.9; 23-SEP-2007 14:31:30; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;29094  
2; 1920.4; 23-SEP-2007 14:40:10; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29094  
3; 2104.2; 23-SEP-2007 14:43:14; Bright; 36.0; 61; 8Eps Peg ; 2.10; 3900;occ; 72; 0;29094  
4; 2981.4; 23-SEP-2007 14:57:51; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29094  
5; 3430.1; 23-SEP-2007 15:05:19; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29094  
6; 3519.5; 23-SEP-2007 15:06:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29094  
7; 3890.3; 23-SEP-2007 15:13:00; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29094  
8; 3978.6; 23-SEP-2007 15:14:28; Bright; 33.5; 82; 48Bet UMA ; 2.37; 10600;occ; 67; 0;29094  
9; 4167.3; 23-SEP-2007 15:17:37; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29094  
10; 4566.8; 23-SEP-2007 15:24:16; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;29094  
11; 5705.8; 23-SEP-2007 15:43:15; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29094  
12; 5792.6; 23-SEP-2007 15:44:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29094  
13; 5904.2; 23-SEP-2007 15:46:34; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;29094  
14; 5998.4; 23-SEP-2007 15:48:08; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;29094  
15; 6624.4; 23-SEP-2007 15:58:34; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;29094  
16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094  
17; 7161.9; 23-SEP-2007 16:07:31; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;29094

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1; 1401.1; 23-SEP-2007 16:12:06; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;29095  
2; 1920.4; 23-SEP-2007 16:20:46; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29095  
3; 2104.3; 23-SEP-2007 16:23:50; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;29095  
4; 2981.5; 23-SEP-2007 16:38:27; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29095  
5; 3430.0; 23-SEP-2007 16:45:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29095  
6; 3519.7; 23-SEP-2007 16:47:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29095  
7; 3890.4; 23-SEP-2007 16:53:36; Bright; 52.0; 36; 50Alp UMA ; 1.80; 6300;occ; 104; 0;29095  
8; 3978.7; 23-SEP-2007 16:55:04; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29095  
9; 4167.5; 23-SEP-2007 16:58:13; Bright; 32.5; 174; 52Psi UMA ; 3.00; 4400;occ; 65; 0;29095  
10; 4567.1; 23-SEP-2007 17:04:52; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29095  
11; 5706.0; 23-SEP-2007 17:23:51; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29095  
12; 5793.0; 23-SEP-2007 17:25:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29095  
13; 5904.4; 23-SEP-2007 17:27:10; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29095  
14; 5998.7; 23-SEP-2007 17:28:44; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;29095  
15; 6624.6; 23-SEP-2007 17:39:10; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29095  
16; 6722.4; 23-SEP-2007 17:40:48; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29095  
17; 7162.1; 23-SEP-2007 17:48:07; Dark ; 3.0; 63; Bet Gru ; 2.15; 2800;occ; 6; 0;29095

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2; 1401.3; 23-SEP-2007 17:52:43; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;29096  
3; 1920.5; 23-SEP-2007 18:01:22; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29096  
4; 2104.6; 23-SEP-2007 18:04:26; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29096  
5; 2981.7; 23-SEP-2007 18:19:03; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29096  
6; 3430.0; 23-SEP-2007 18:26:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29096  
7; 3520.0; 23-SEP-2007 18:28:01; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29096  
8; 3890.4; 23-SEP-2007 18:34:12; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;29096  
9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096  
10; 4167.6; 23-SEP-2007 18:38:49; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29096  
11; 4567.2; 23-SEP-2007 18:45:28; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;29096  
12; 5706.3; 23-SEP-2007 19:04:28; Dark ; 39.0; 65; Lam Vel ; 2.20; 4400;occ; 78; 0;29096  
13; 5793.3; 23-SEP-2007 19:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29096  
14; 5904.6; 23-SEP-2007 19:07:46; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29096  
15; 5998.9; 23-SEP-2007 19:09:20; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29096  
16; 6624.7; 23-SEP-2007 19:19:46; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29096  
17; 6722.6; 23-SEP-2007 19:21:24; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29096

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3; 1920.7; 23-SEP-2007 19:41:58; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29097  
4; 2104.7; 23-SEP-2007 19:45:02; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29097  
5; 2981.7; 23-SEP-2007 19:59:39; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29097  
6; 3430.0; 23-SEP-2007 20:07:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29097  
7; 3520.3; 23-SEP-2007 20:08:38; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29097  
8; 3890.6; 23-SEP-2007 20:14:48; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29097  
9; 3978.9; 23-SEP-2007 20:16:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29097  
10; 4167.8; 23-SEP-2007 20:19:25; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29097  
11; 4567.3; 23-SEP-2007 20:26:05; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29097  
12; 5706.4; 23-SEP-2007 20:45:04; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29097  
13; 5793.5; 23-SEP-2007 20:46:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29097  
14; 5904.9; 23-SEP-2007 20:48:22; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29097  
15; 5999.1; 23-SEP-2007 20:49:56; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;29097  
16; 6624.7; 23-SEP-2007 21:00:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29097  
17; 6723.0; 23-SEP-2007 21:02:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29097

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2; 1412.4; 27-SEP-2007 22:28:49; Dark ; 39.5; 18; 24Alp PsA ; 1.17; 9700;occ; 79; 0;29156  
3; 1932.5; 27-SEP-2007 22:37:29; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29156  
4; 2422.9; 27-SEP-2007 22:45:39; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;29156  
5; 2990.7; 27-SEP-2007 22:55:07; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29156  
6; 3429.4; 27-SEP-2007 23:02:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29156  
7; 3537.6; 27-SEP-2007 23:04:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;29156  
8; 3899.5; 27-SEP-2007 23:10:16; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29156  
9; 3988.8; 27-SEP-2007 23:11:45; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29156  
10; 4179.6; 27-SEP-2007 23:14:56; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29156  
11; 4578.2; 27-SEP-2007 23:21:35; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29156

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2; -892.7; 27-SEP-2007 23:31:00; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29156  
3; -311.6; 27-SEP-2007 23:40:41; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29156  
4; -223.0; 27-SEP-2007 23:42:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29156  
5; -113.4; 27-SEP-2007 23:43:59; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29156  
6; -18.2; 27-SEP-2007 23:45:34; Dark ; 37.5; 41; Eps Car ; 1.86; 4100;occ; 75; 0;29156  
7; 712.5; 27-SEP-2007 23:57:45; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29157  
8; 1412.5; 28-SEP-2007 00:09:25; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29157  
9; 1932.6; 28-SEP-2007 00:18:05; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29157  
10; 2423.0; 28-SEP-2007 00:26:15; Bright; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;29157  
11; 2990.9; 28-SEP-2007 00:35:43; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;29157  
12; 3429.4; 28-SEP-2007 00:43:02; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29157  
13; 3537.9; 28-SEP-2007 00:44:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29157  
14; 3899.7; 28-SEP-2007 00:50:52; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29157  
15; 3989.1; 28-SEP-2007 00:52:21; Bright; 32.0; 82; 48Bet UMA ; 2.37; 10600;occ; 64; 0;29157  
16; 4179.8; 28-SEP-2007 00:55:32; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29157  
17; 4578.5; 28-SEP-2007 01:02:11; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;29157

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