

# GOMOS Daily Report 01-SEP-2007

## 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	03SEP2007 05:34:28
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

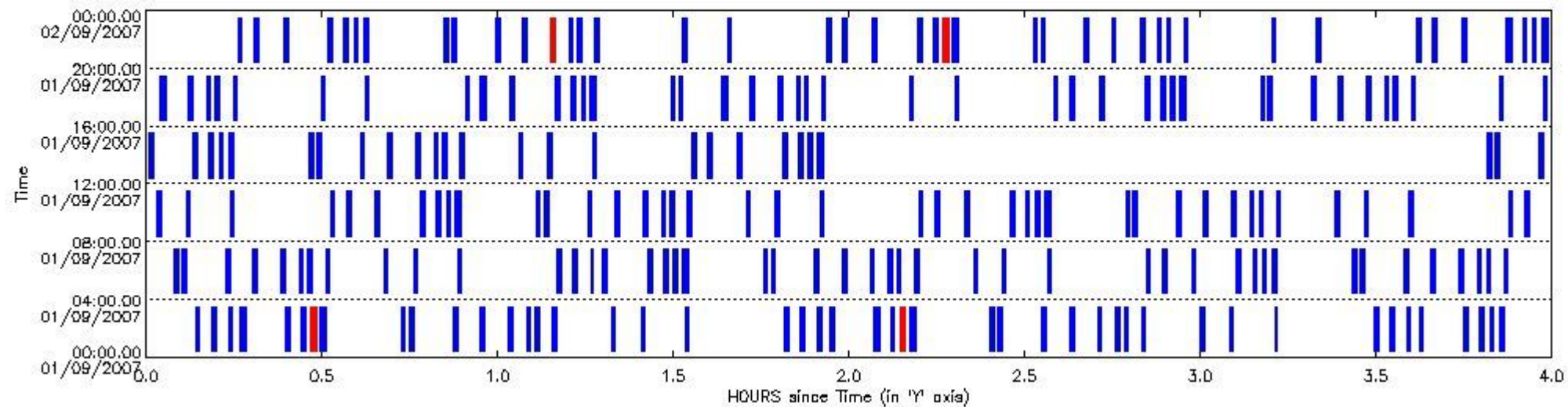
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

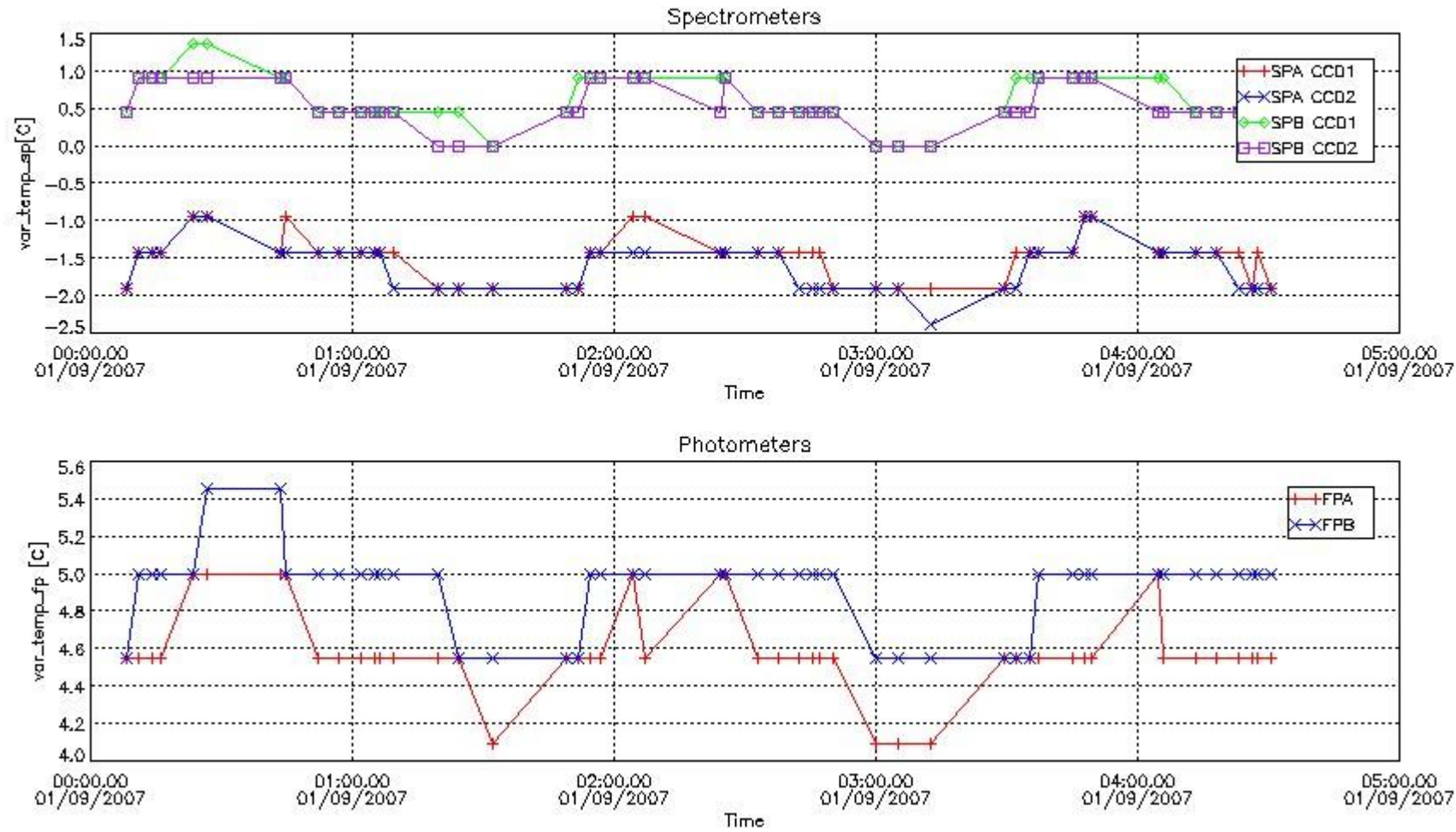
UTC start time	Star name	Star ID	Orbit
01-SEP-2007 00:28:01	1ZetCMa	177	28770
01-SEP-2007 02:08:38	1ZetCMa	177	28771
01-SEP-2007 21:08:53	49DelCap	142	28783
01-SEP-2007 22:15:58	1ZetCMa	177	28783

### 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_1PNPDE20070901_000824_000000392061_00159_28770_9750.N1	01-SEP-2007 00:08:24	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	28770	No
2	GOM_TRA_1PNPDE20070901_001103_000000492061_00159_28770_9751.N1	01-SEP-2007 00:11:03	Bright	48.500	170	27Eps Gem	3.0000	9700.0	97	28770	No
3	GOM_TRA_1PNPDE20070901_001402_000000402061_00159_28770_9752.N1	01-SEP-2007 00:14:02	Twilight	40.000	44	24Gam Gem	1.9280	11000.	80	28770	No
4	GOM_TRA_1PNPDE20070901_001605_000000532061_00159_28770_9753.N1	01-SEP-2007 00:16:05	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	28770	No
5	GOM_TRA_1PNPDE20070901_002342_000000492061_00159_28770_9886.N1	01-SEP-2007 00:23:42	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	28770	No
6	GOM_TRA_1PNPDE20070901_002628_000000422061_00159_28770_9887.N1	01-SEP-2007 00:26:28	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	28770	No
7	GOM_TRA_1PNPDE20070901_004332_000000412061_00160_28771_9888.N1	01-SEP-2007 00:43:32	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28771	No

8	GOM_TRA_1PNPDE20070901_004448_000000562061_00160_28771_9889.N1	01-SEP-2007 00:44:48	Dark	55.500	9	Alp Eri	0.45300	24000.	111	28771	No
9	GOM_TRA_1PNPDE20070901_005217_000000482061_00160_28771_9890.N1	01-SEP-2007 00:52:17	Straylight	47.500	63	Bet Gru	2.1500	2800.0	95	28771	No
10	GOM_TRA_1PNPDE20070901_005656_000000502061_00160_28771_9891.N1	01-SEP-2007 00:56:56	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	28771	No
11	GOM_TRA_1PNPDE20070901_010147_000000452061_00160_28771_9892.N1	01-SEP-2007 01:01:47	Bright	45.000	142	49Del Cap	2.8500	8900.0	90	28771	No
12	GOM_TRA_1PNPDE20070901_010455_000000382061_00160_28771_9893.N1	01-SEP-2007 01:04:55	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28771	No
13	GOM_TRA_1PNPDE20070901_010624_000000402061_00160_28771_9894.N1	01-SEP-2007 01:06:24	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	28771	No
14	GOM_TRA_1PNPDE20070901_010924_000000392061_00160_28771_9895.N1	01-SEP-2007 01:09:24	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28771	No
15	GOM_TRA_1PNPDE20070901_011926_000000382061_00160_28771_9896.N1	01-SEP-2007 01:19:26	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	28771	No
16	GOM_TRA_1PNPDE20070901_012425_000000372061_00160_28771_9897.N1	01-SEP-2007 01:24:25	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28771	No
17	GOM_TRA_1PNPDE20070901_013203_000000342061_00160_28771_9898.N1	01-SEP-2007 01:32:03	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28771	No
18	GOM_TRA_1PNPDE20070901_014900_000000382061_00160_28771_9899.N1	01-SEP-2007 01:49:00	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	28771	No
19	GOM_TRA_1PNPDE20070901_015139_000000452061_00160_28771_9900.N1	01-SEP-2007 01:51:39	Bright	44.500	170	27Eps Gem	3.0000	9700.0	89	28771	No
20	GOM_TRA_1PNPDE20070901_015438_000000402061_00160_28771_9901.N1	01-SEP-2007 01:54:38	Twilight	40.000	44	24Gam Gem	1.9280	11000.	80	28771	No
21	GOM_TRA_1PNPDE20070901_015641_000000462061_00160_28771_9902.N1	01-SEP-2007 01:56:41	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	28771	No
22	GOM_TRA_1PNPDE20070901_020419_000000522061_00160_28771_0028.N1	01-SEP-2007 02:04:19	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	28771	No
23	GOM_TRA_1PNPDE20070901_020705_000000432061_00160_28771_0029.N1	01-SEP-2007 02:07:05	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	28771	No
24	GOM_TRA_1PNPDE20070901_022408_000000422061_00161_28772_0030.N1	01-SEP-2007 02:24:08	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	28772	No
25	GOM_TRA_1PNPDE20070901_022525_000000472061_00161_28772_0031.N1	01-SEP-2007 02:25:25	Dark	46.500	9	Alp Eri	0.45300	24000.	93	28772	No
26	GOM_TRA_1PNPDE20070901_023253_000000452061_00161_28772_0032.N1	01-SEP-2007 02:32:53	Straylight	44.500	63	Bet Gru	2.1500	2800.0	89	28772	No
27	GOM_TRA_1PNPDE20070901_023732_000000502061_00161_28772_0033.N1	01-SEP-2007 02:37:32	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	28772	No
28	GOM_TRA_1PNPDE20070901_024223_000000422061_00161_28772_0034.N1	01-SEP-2007 02:42:23	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	28772	No
29	GOM_TRA_1PNPDE20070901_024531_000000392061_00161_28772_0035.N1	01-SEP-2007 02:45:31	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	28772	No
30	GOM_TRA_1PNPDE20070901_024700_000000402061_00161_28772_0036.N1	01-SEP-2007 02:47:00	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	28772	No
31	GOM_TRA_1PNPDE20070901_025000_000000392061_00161_28772_0037.N1	01-SEP-2007 02:50:00	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28772	No
32	GOM_TRA_1PNPDE20070901_030002_000000342061_00161_28772_0038.N1	01-SEP-2007 03:00:02	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	28772	No
33	GOM_TRA_1PNPDE20070901_030500_000000332061_00161_28772_0039.N1	01-SEP-2007 03:05:00	Bright	33.000	89	5Alp Cep	2.4510	8000.0	66	28772	No
34	GOM_TRA_1PNPDE20070901_031239_000000322061_00161_28772_0040.N1	01-SEP-2007 03:12:39	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	28772	No
35	GOM_TRA_1PNPDE20070901_032936_000000472061_00161_28772_0163.N1	01-SEP-2007 03:29:36	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	28772	No
36	GOM_TRA_1PNPDE20070901_033215_000000482061_00161_28772_0164.N1	01-SEP-2007 03:32:15	Bright	47.500	170	27Eps Gem	3.0000	9700.0	95	28772	No
37	GOM_TRA_1PNPDE20070901_033514_000000282061_00161_28772_0165.N1	01-SEP-2007 03:35:14	Twilight	28.000	44	24Gam Gem	1.9280	11000.	56	28772	No
38	GOM_TRA_1PNPDE20070901_033717_000000472061_00161_28772_0166.N1	01-SEP-2007 03:37:17	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	28772	No
39	GOM_TRA_1PNPDE20070901_034455_000000492061_00161_28772_0167.N1	01-SEP-2007 03:44:55	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	28772	No
40	GOM_TRA_1PNPDE20070901_034741_000000442061_00161_28772_0168.N1	01-SEP-2007 03:47:41	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	28772	No
41	GOM_TRA_1PNPDE20070901_034922_000000422061_00161_28772_0169.N1	01-SEP-2007 03:49:22	Dark	41.500	177	1Zet CMa	3.0220	26000.	83	28772	No
42	GOM_TRA_1PNPDE20070901_040445_000000392061_00162_28773_0170.N1	01-SEP-2007 04:04:45	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28773	No
43	GOM_TRA_1PNPDE20070901_040602_000000542061_00162_28773_0171.N1	01-SEP-2007 04:06:02	Dark	53.500	9	Alp Eri	0.45300	24000.	107	28773	No
44	GOM_TRA_1PNPDE20070901_041330_000000532061_00162_28773_0172.N1	01-SEP-2007 04:13:30	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	28773	No
45	GOM_TRA_1PNPDE20070901_041809_000000482061_00162_28773_0173.N1	01-SEP-2007 04:18:09	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	28773	No
46	GOM_TRA_1PNPDE20070901_042259_000000532061_00162_28773_0174.N1	01-SEP-2007 04:22:59	Bright	53.000	142	49Del Cap	2.8500	8900.0	106	28773	No
47	GOM_TRA_1PNPDE20070901_042607_000000392061_00162_28773_0175.N1	01-SEP-2007 04:26:07	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	28773	No
48	GOM_TRA_1PNPDE20070901_042736_000000402061_00162_28773_0176.N1	01-SEP-2007 04:27:36	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	28773	No
49	GOM_TRA_1PNPDE20070901_043036_000000392061_00162_28773_0177.N1	01-SEP-2007 04:30:36	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28773	No

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



#### 4. Overview of dark signal processing per product

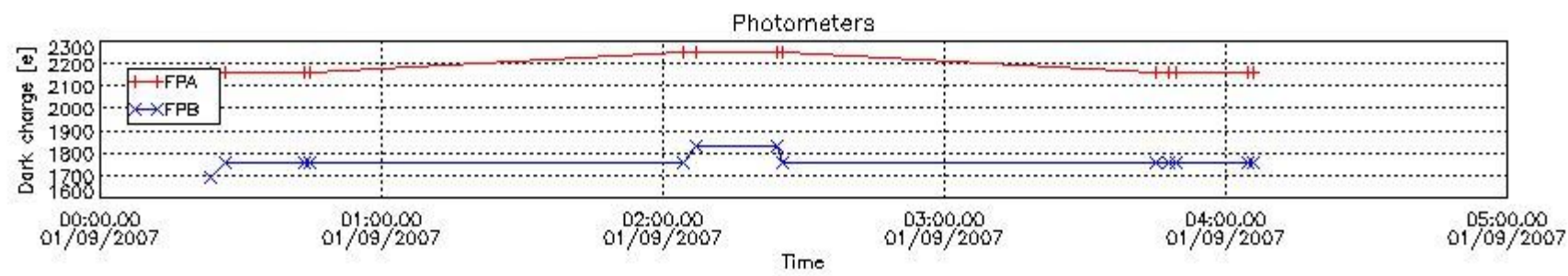
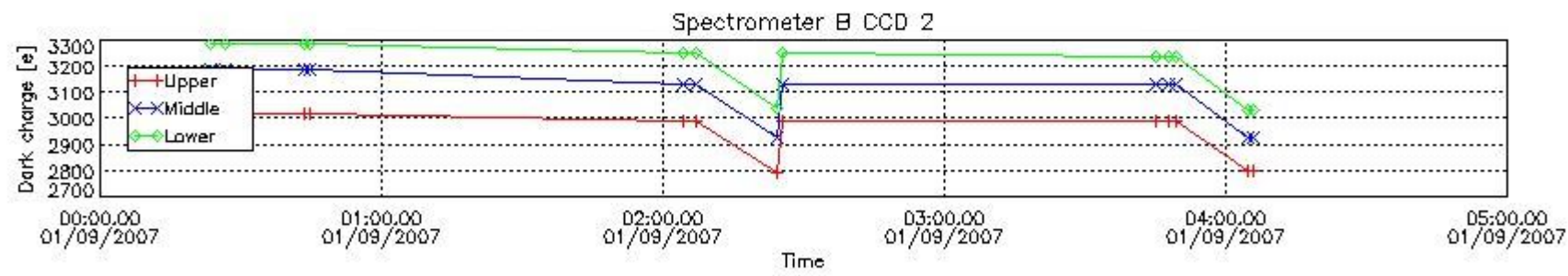
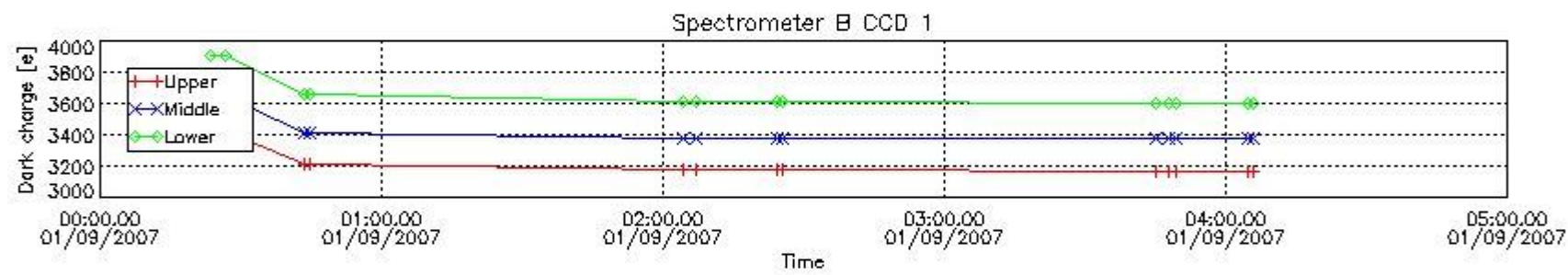
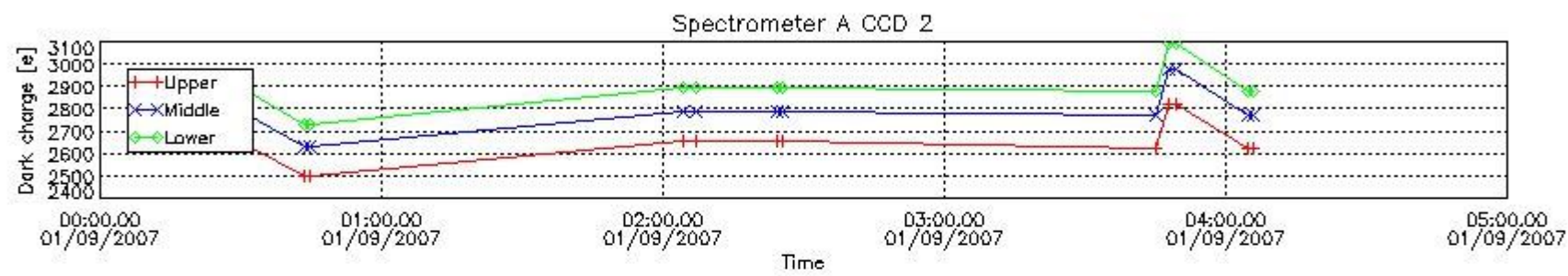
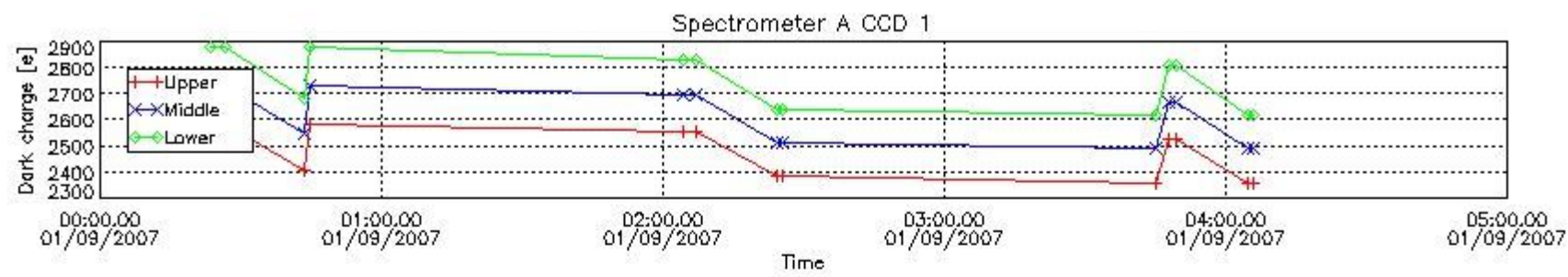
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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

##### 4.1 All products used the DSA observation for the DC computation

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





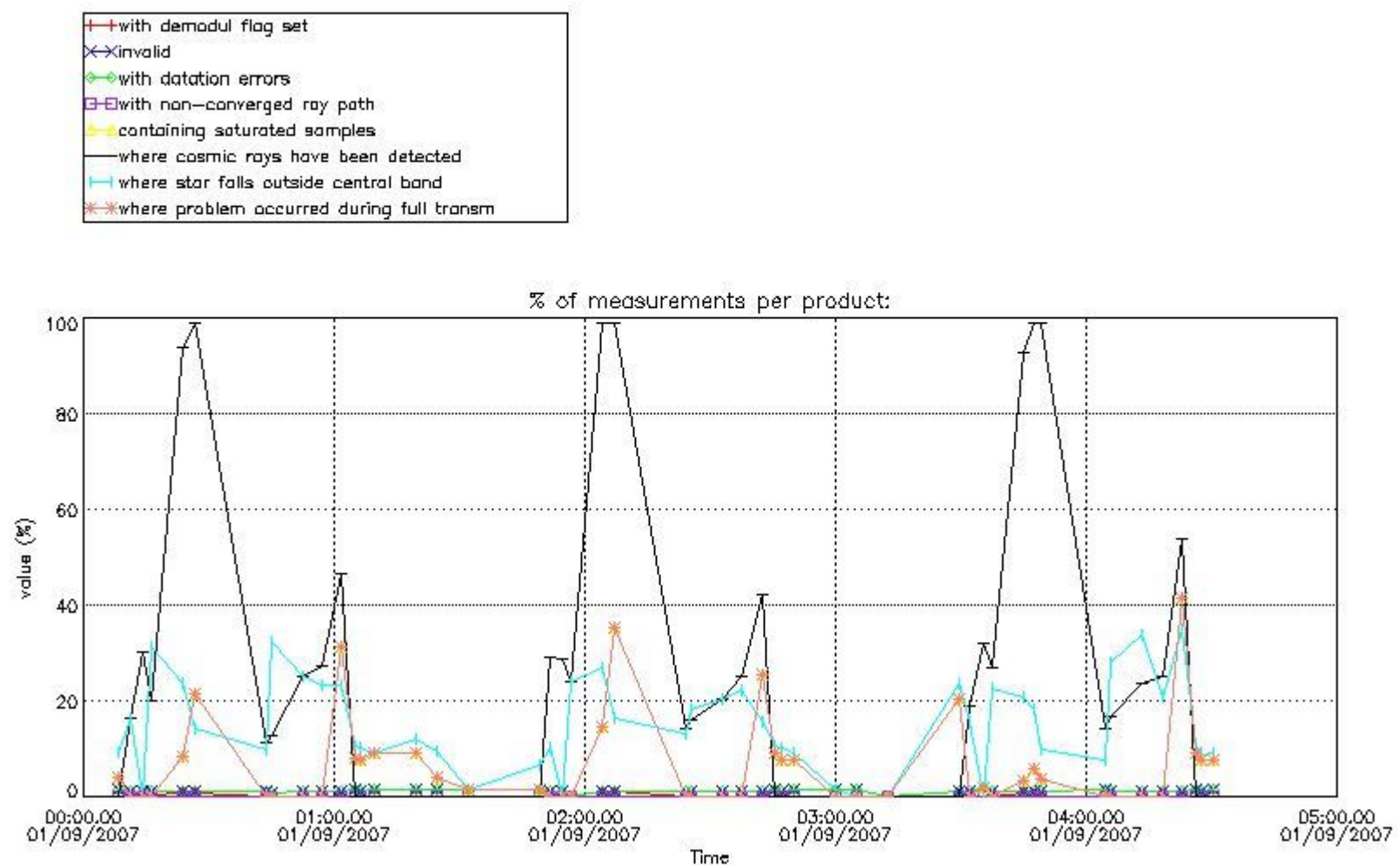
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

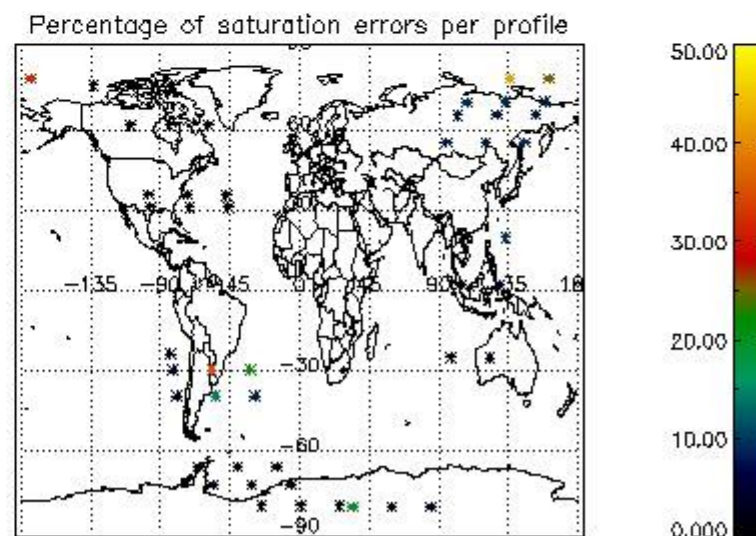
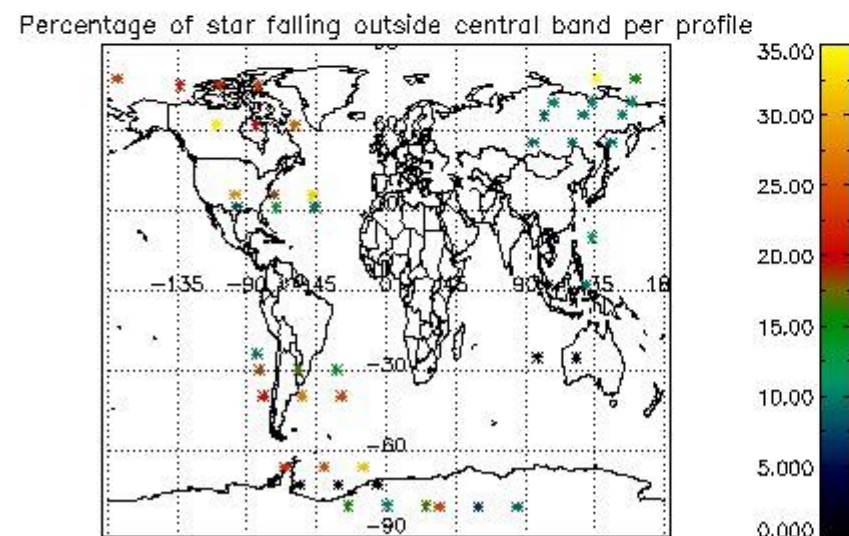
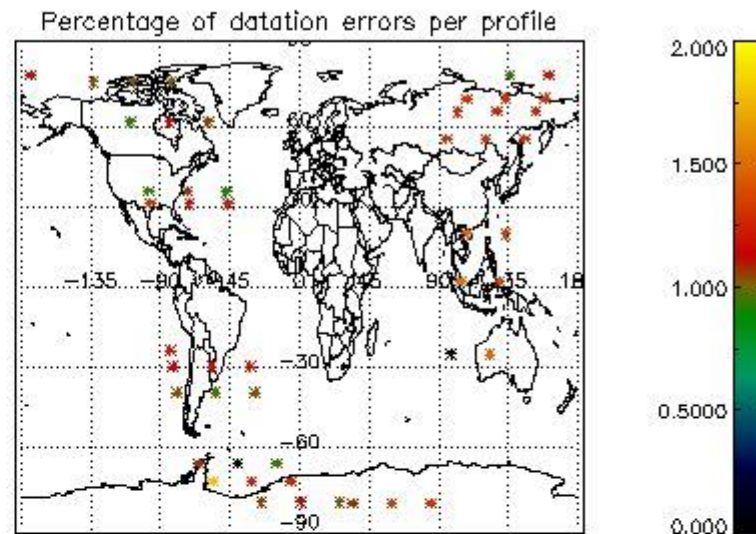
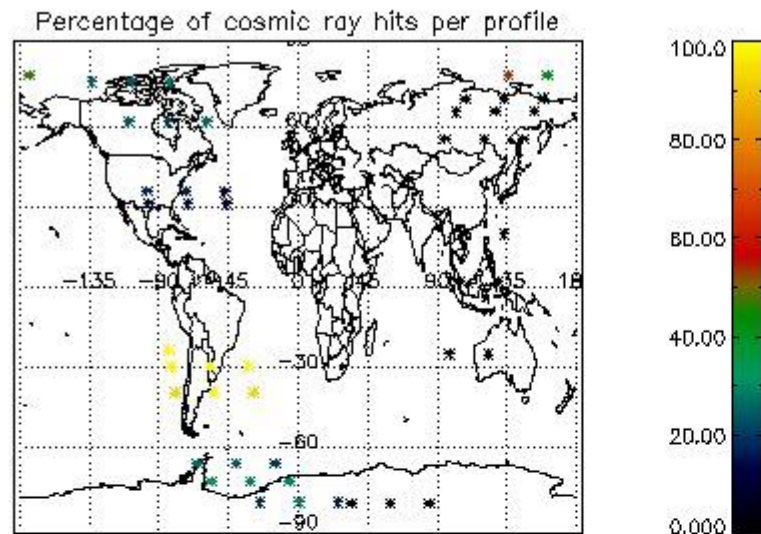
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)

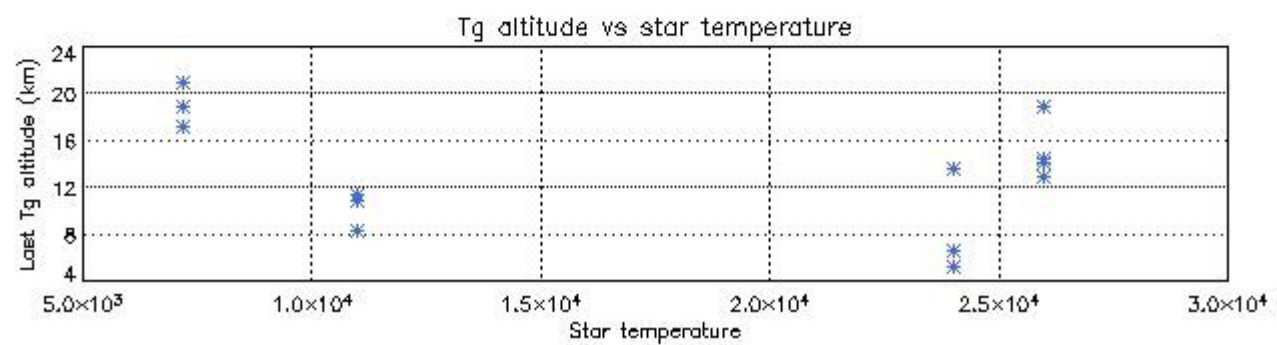
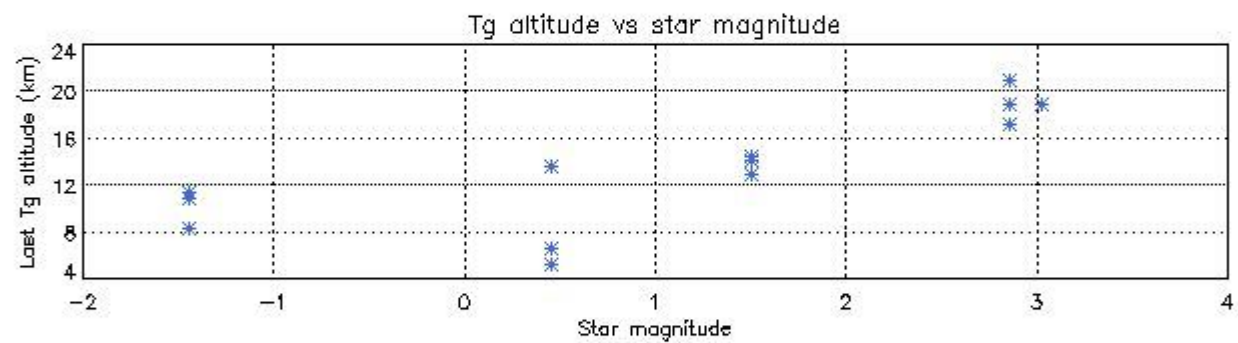
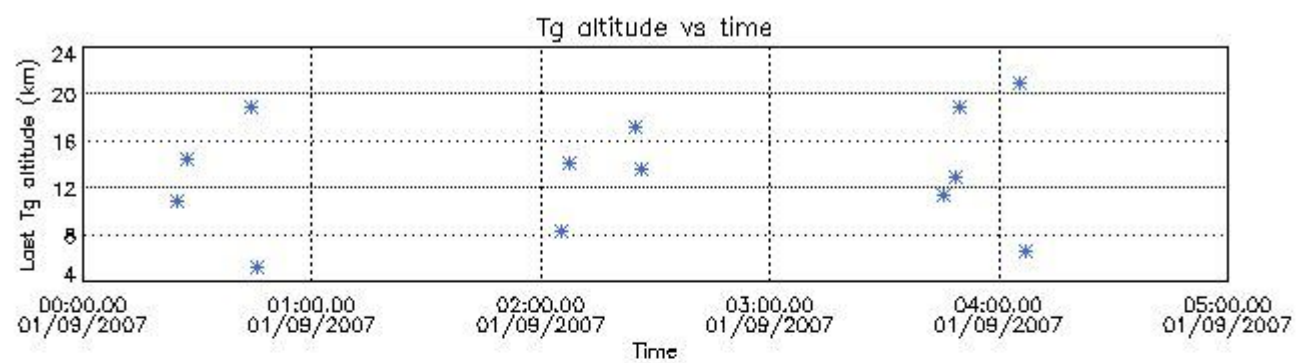
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.292	17.903	8.7737
St. deviation:	4.8297	5.7697	2.8831
Maximum:	20.844	31.831	10.761
Minimum:	5.2462	4.3269	5.4670
Number of data:	13.000	24.000	3.0000

### 6.2 Plot for DARK limb products



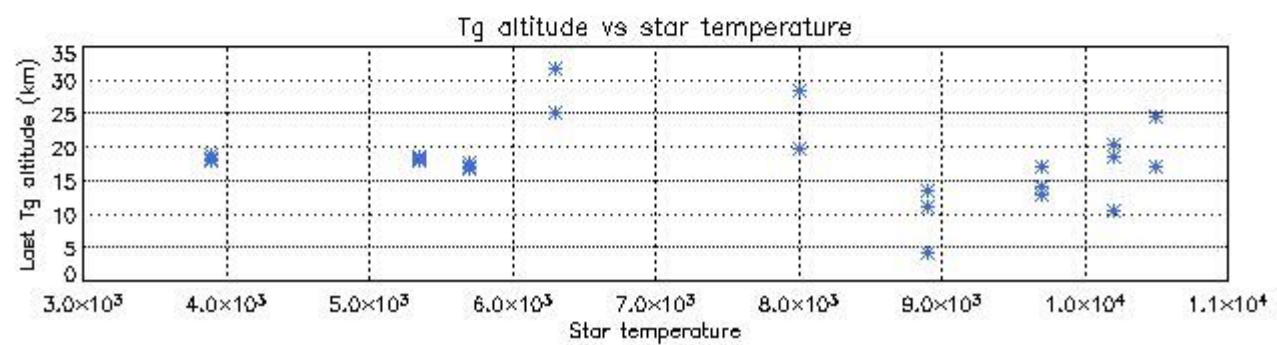
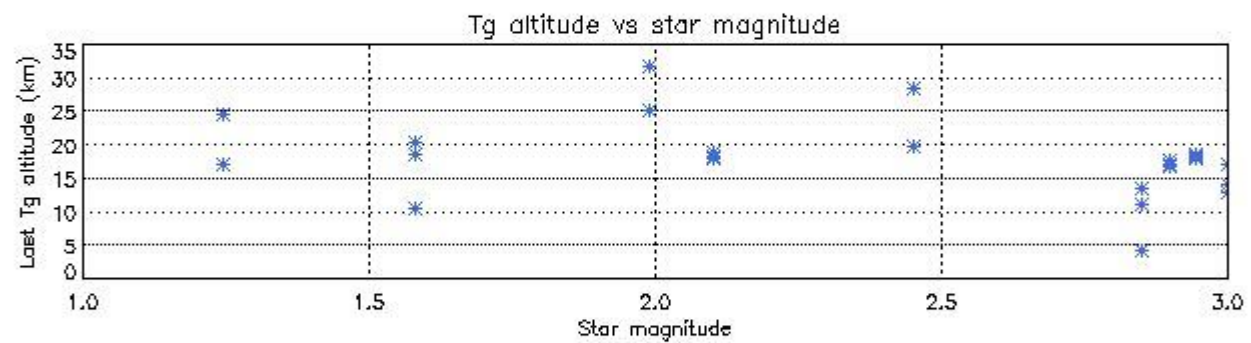
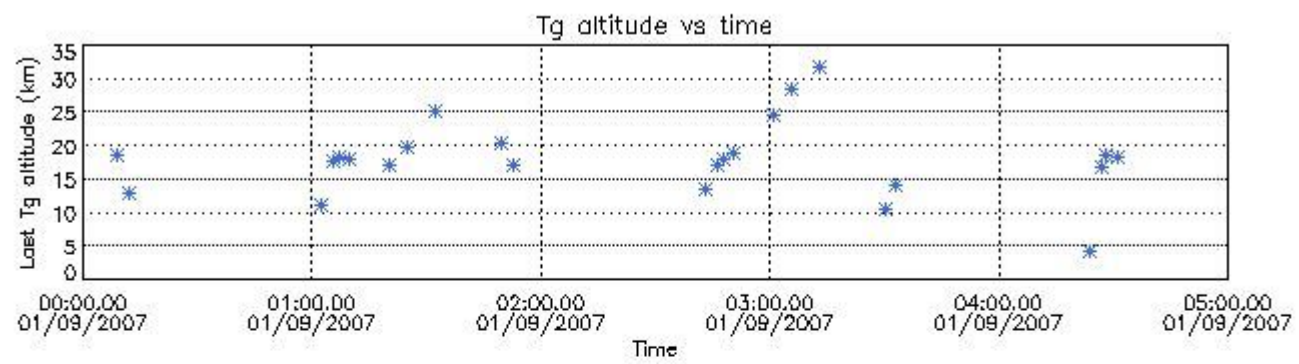
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

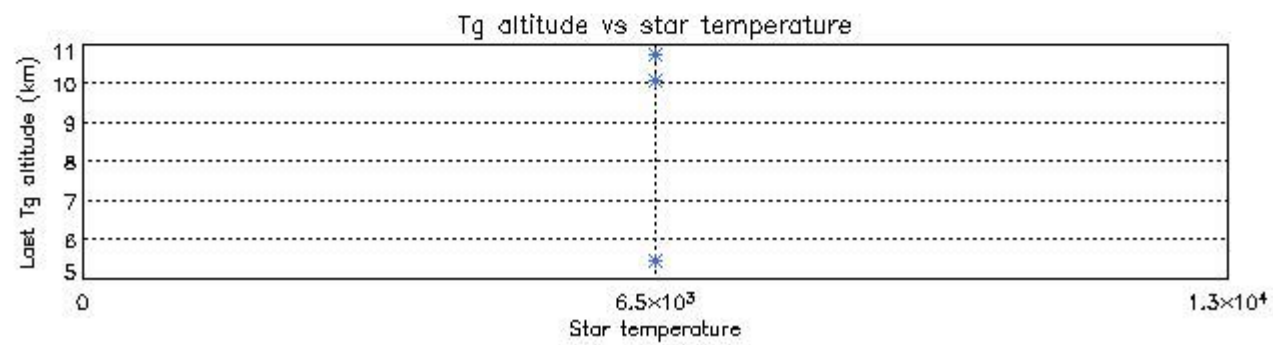
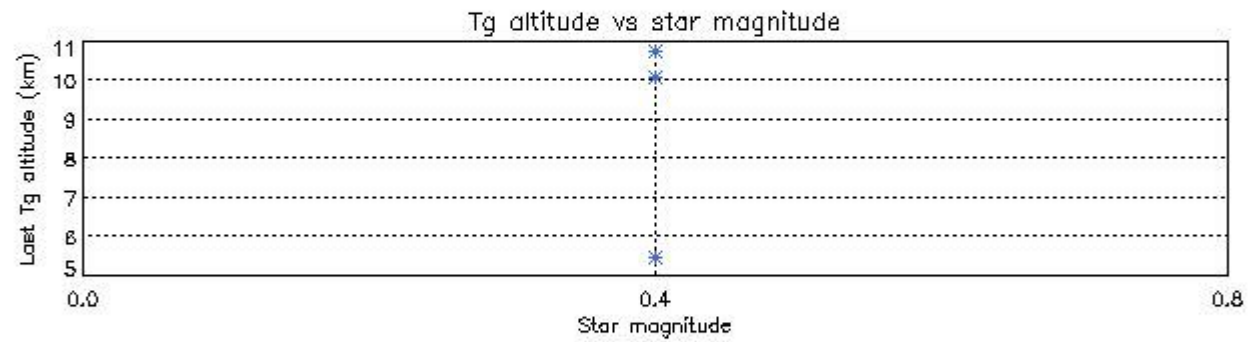
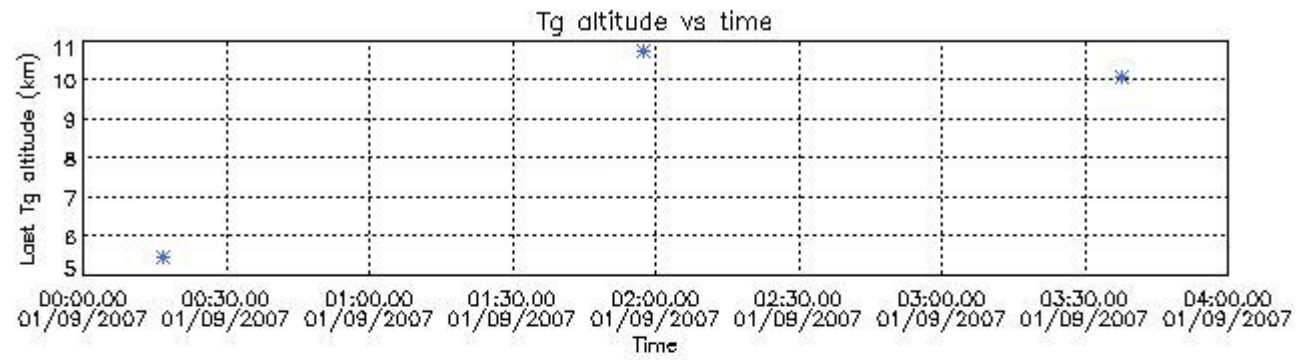


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

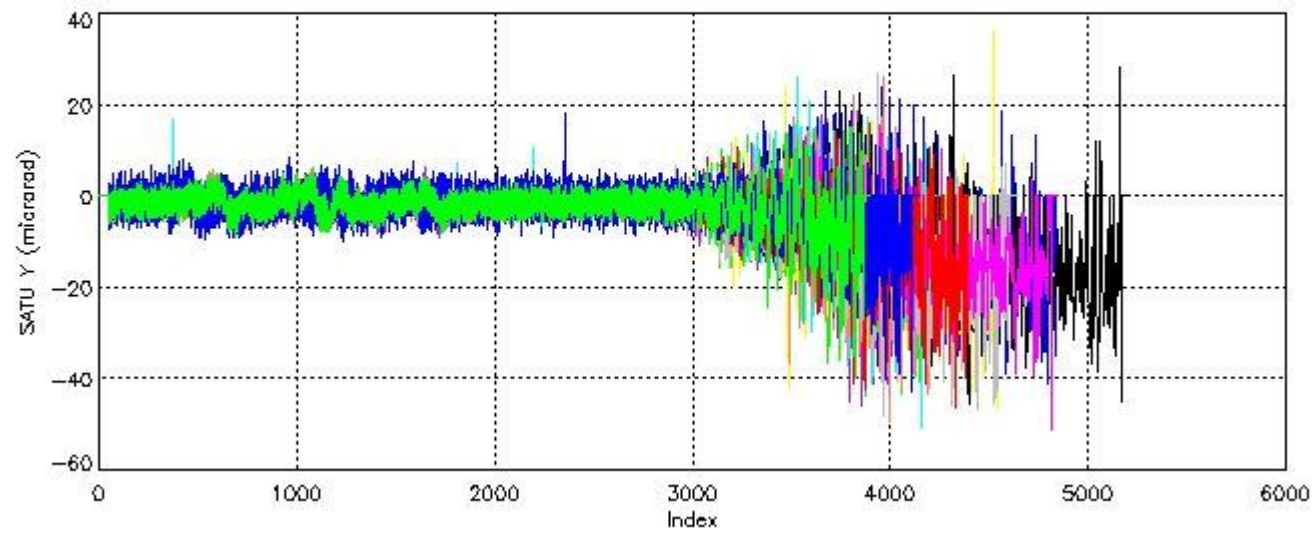
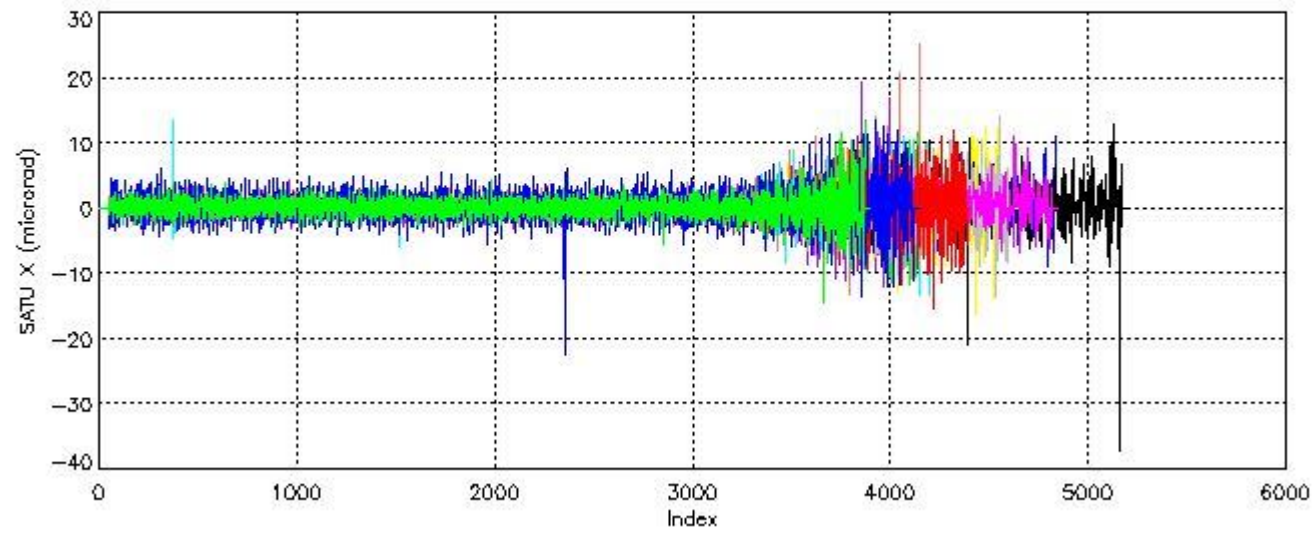


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.19033	-1.1843	0.15569	-1.2994
St. deviation:	0.59677	1.6878	0.67998	1.7514
Maximum:	13.300	16.600	4.1000	5.6000
Minimum:	-4.8000	-9.4000	-3.1000	-8.2000



Number of data:	12650.	12650.	20600.	20600.
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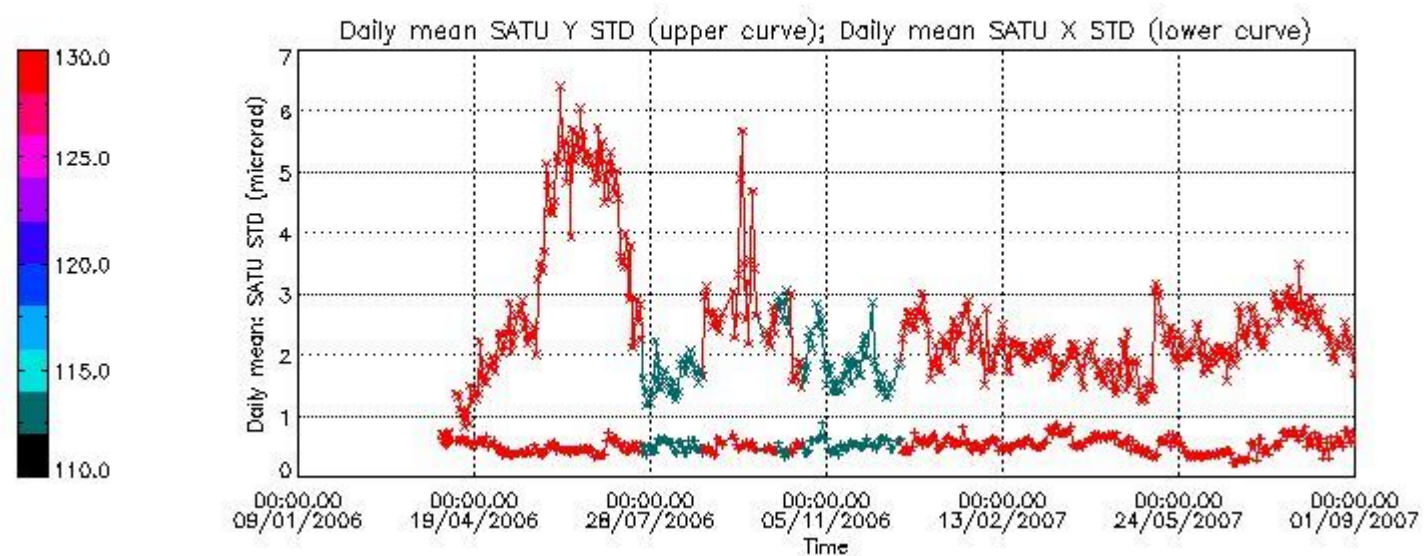
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

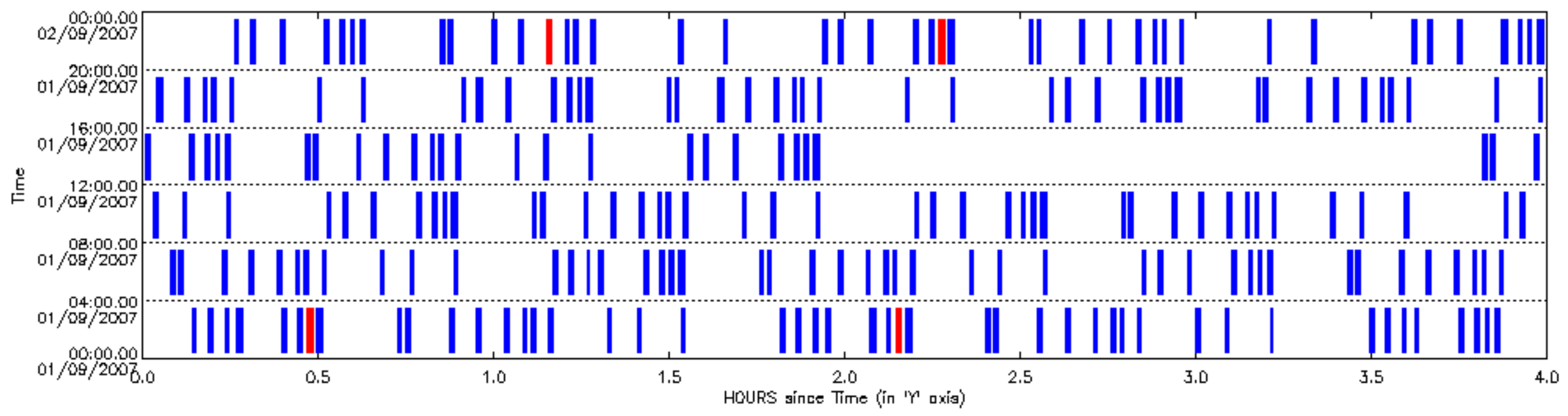
Lower curve: STD of SATU X axis

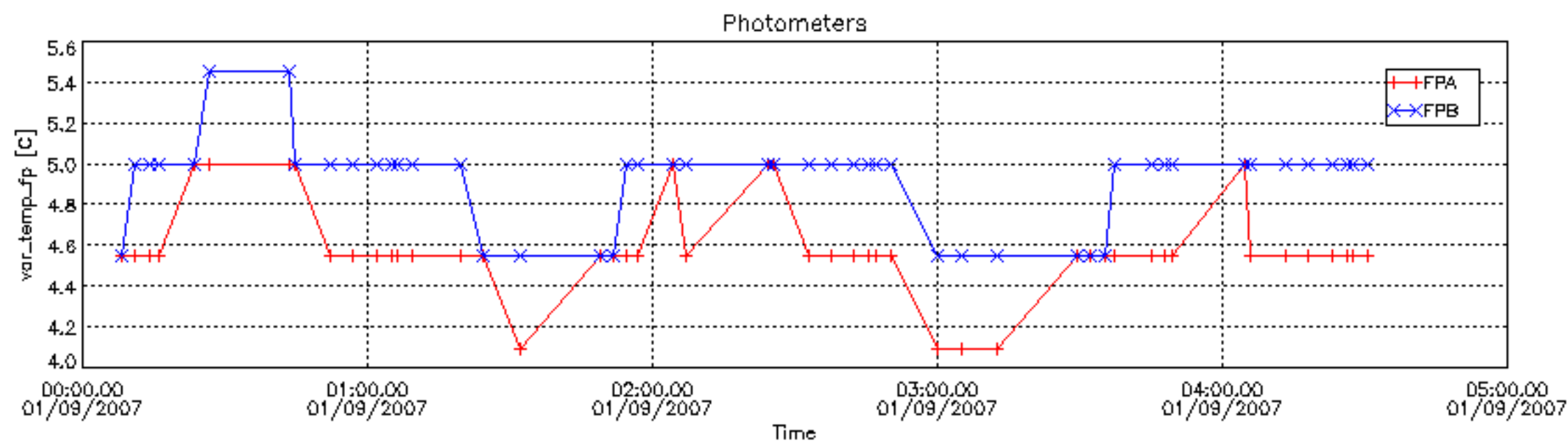
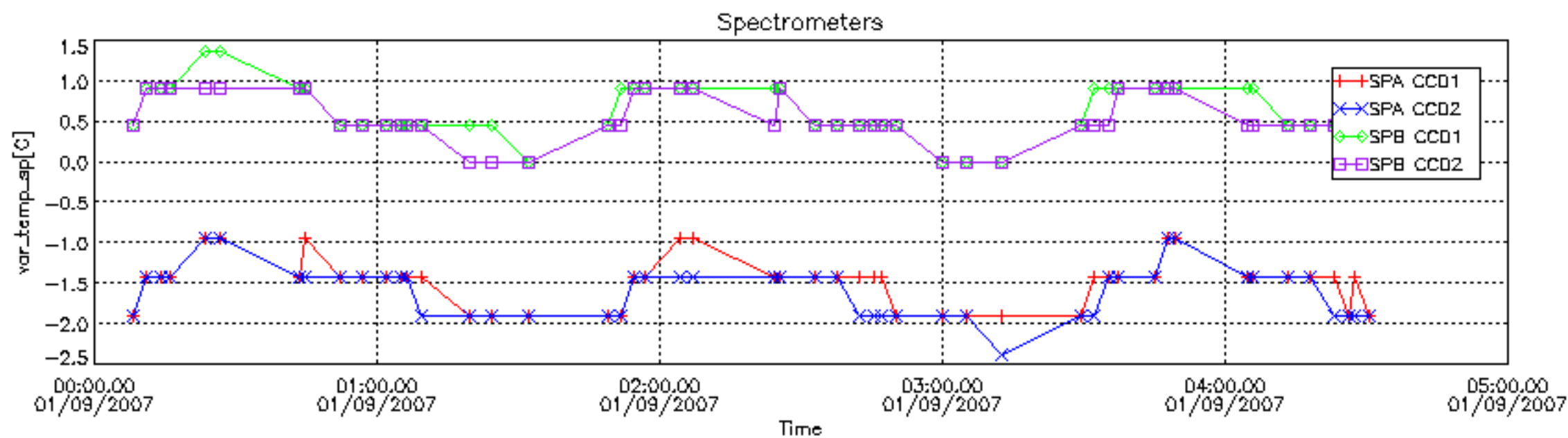


### 8. Auxiliary Data Files used for the production reported in section 2.4

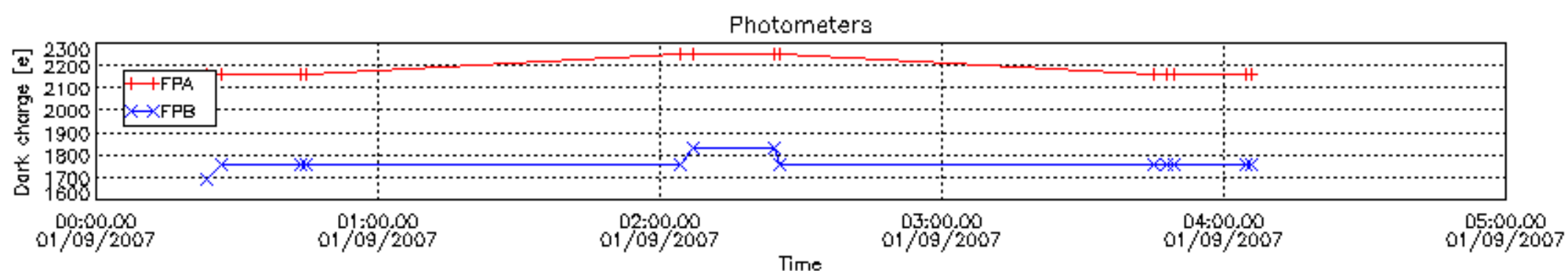
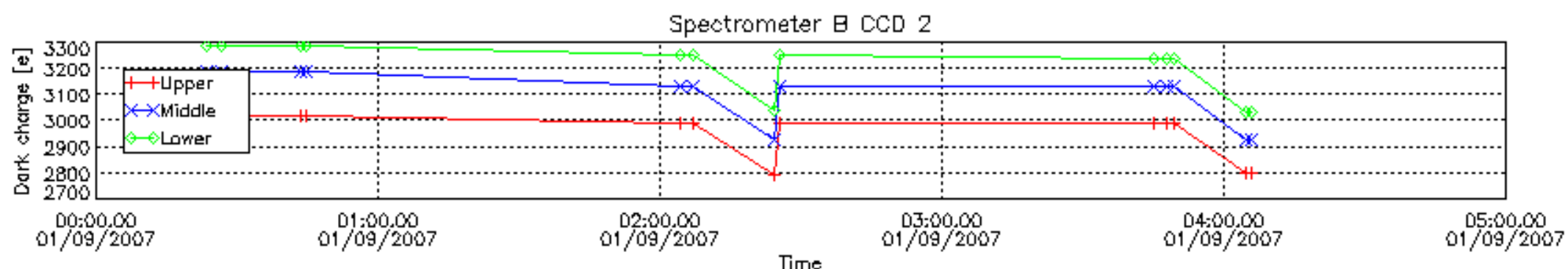
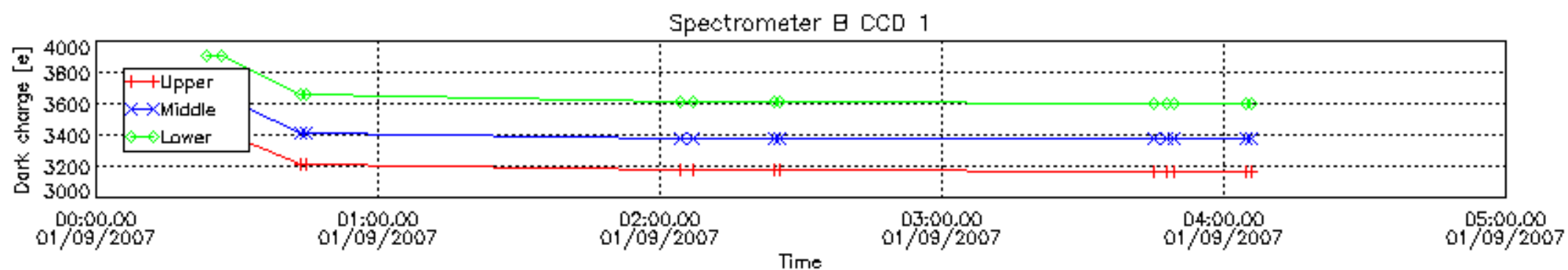
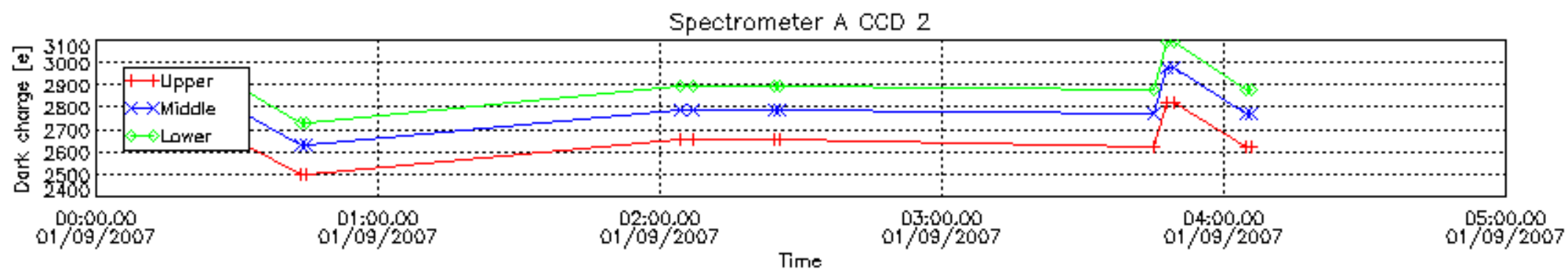
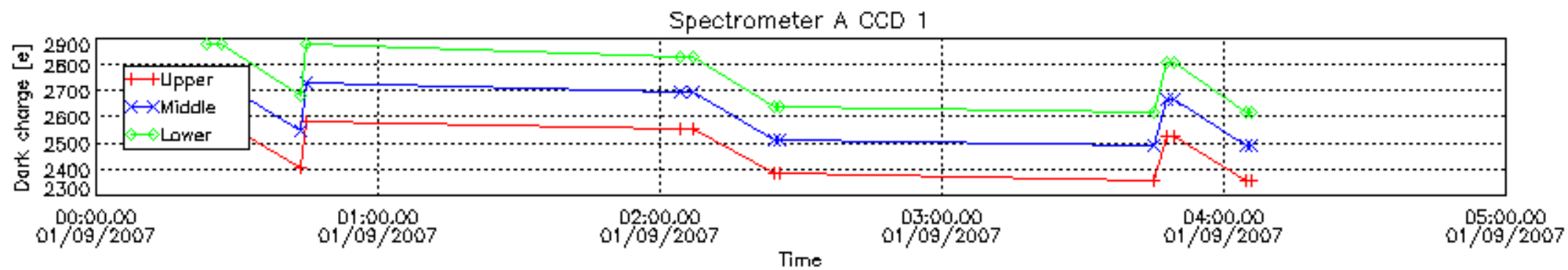
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-SEP-2007 00:08:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	01-SEP-2007 00:08:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-SEP-2007 00:08:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-SEP-2007 00:08:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-SEP-2007 00:08:24
ECMWF_FILE	AUX_ECF_AXNECM20070831_062113_20070831_210000_20070901_090000	1	01-SEP-2007 00:08:24
ECMWF_FILE	AUX_ECF_AXNECM20070831_182112_20070901_030000_20070901_150000	35	01-SEP-2007 03:29:36
OPTIONAL_ECMWF_FILE	MISSING	1	01-SEP-2007 00:08:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070831_205451_000060572061_00157_28768_4082.N1	1	01-SEP-2007 00:08:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070831_224107_000057382061_00158_28769_4083.N1	5	01-SEP-2007 00:23:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070901_002204_000054192061_00159_28770_4084.N1	22	01-SEP-2007 02:04:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070901_015742_000041442061_00160_28771_4085.N1	35	01-SEP-2007 03:29:36



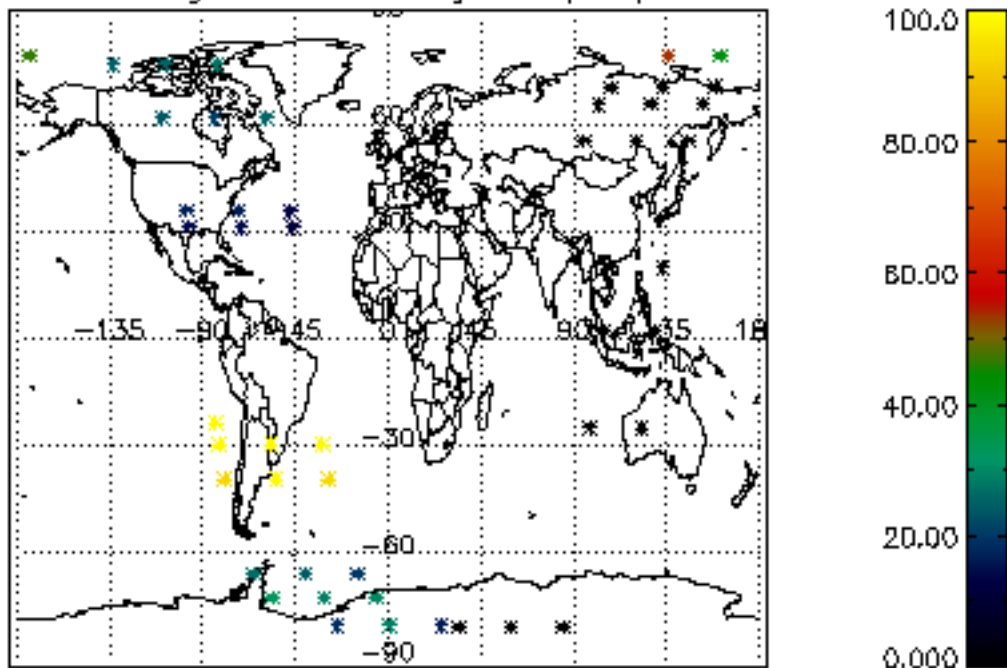




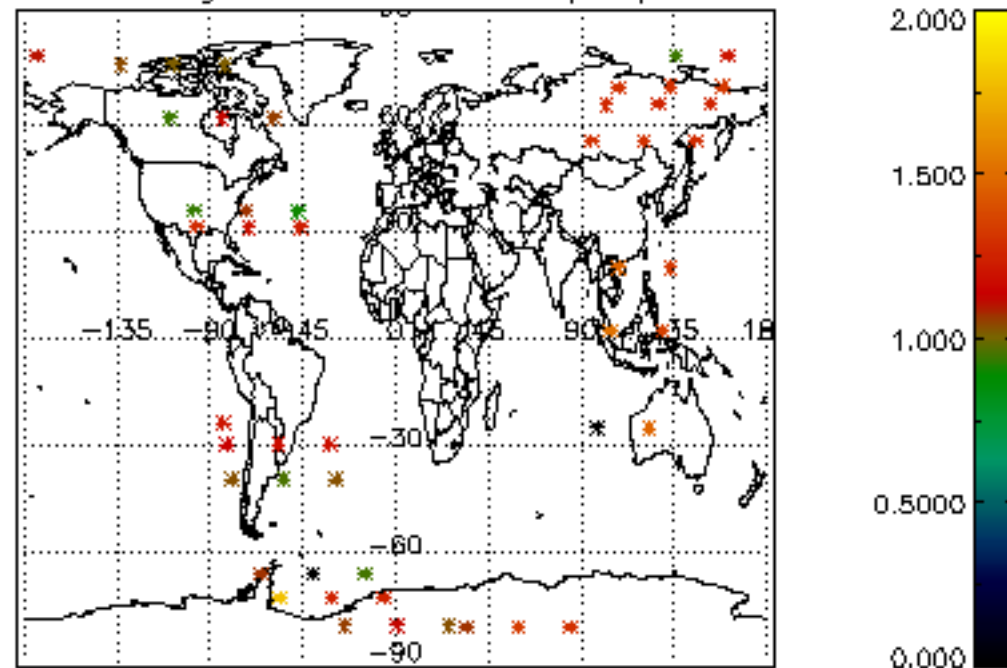




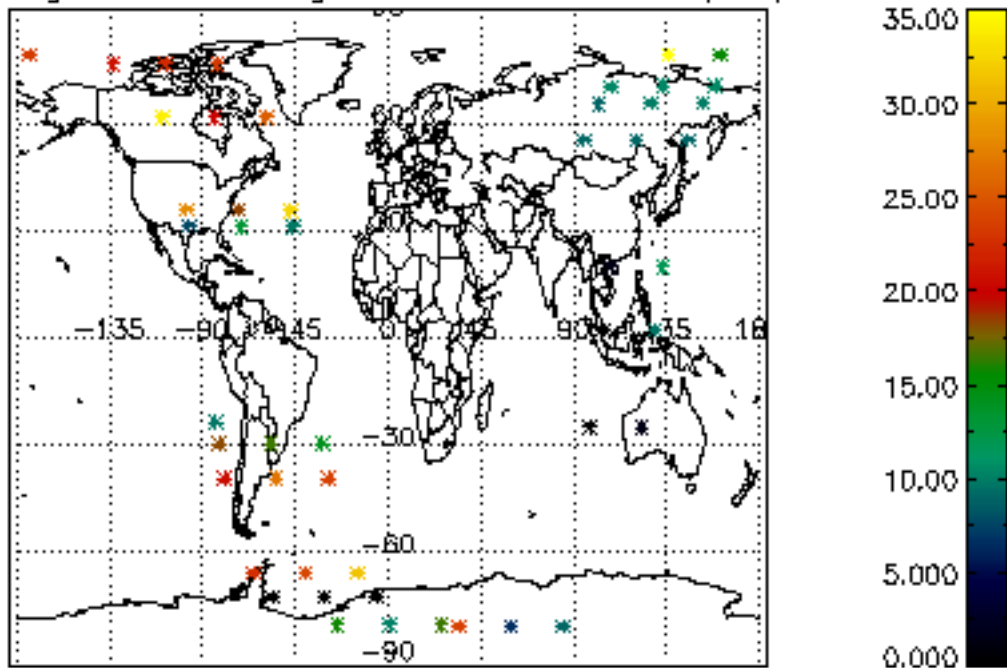
Percentage of cosmic ray hits per profile



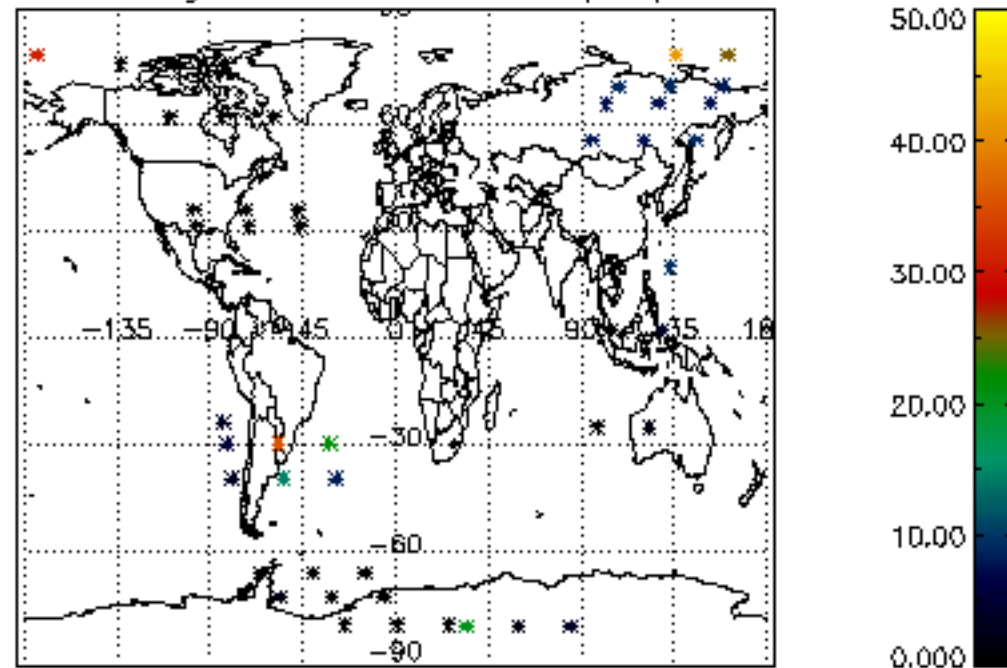
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

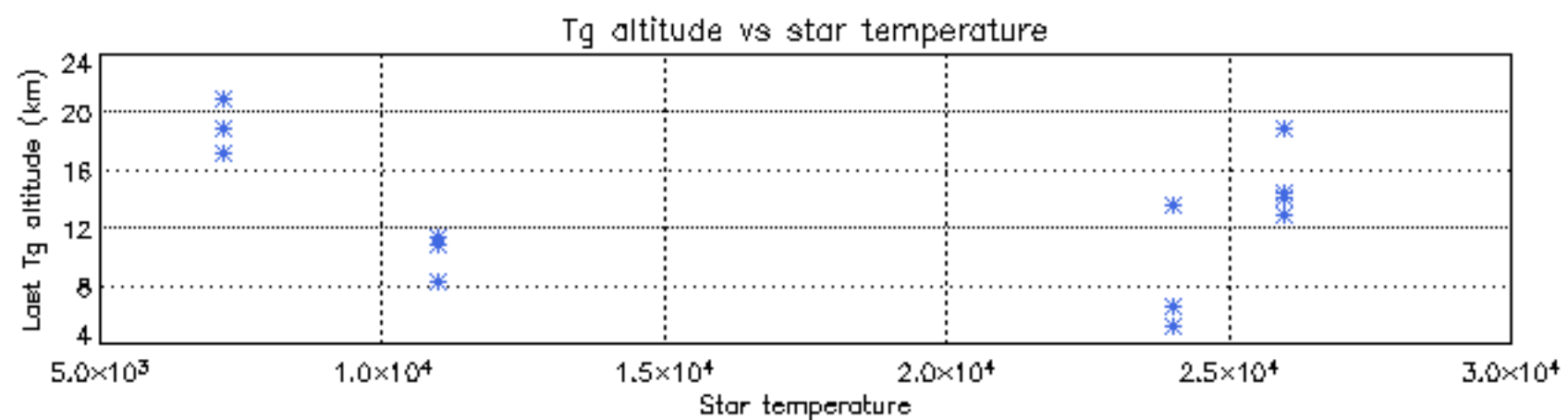
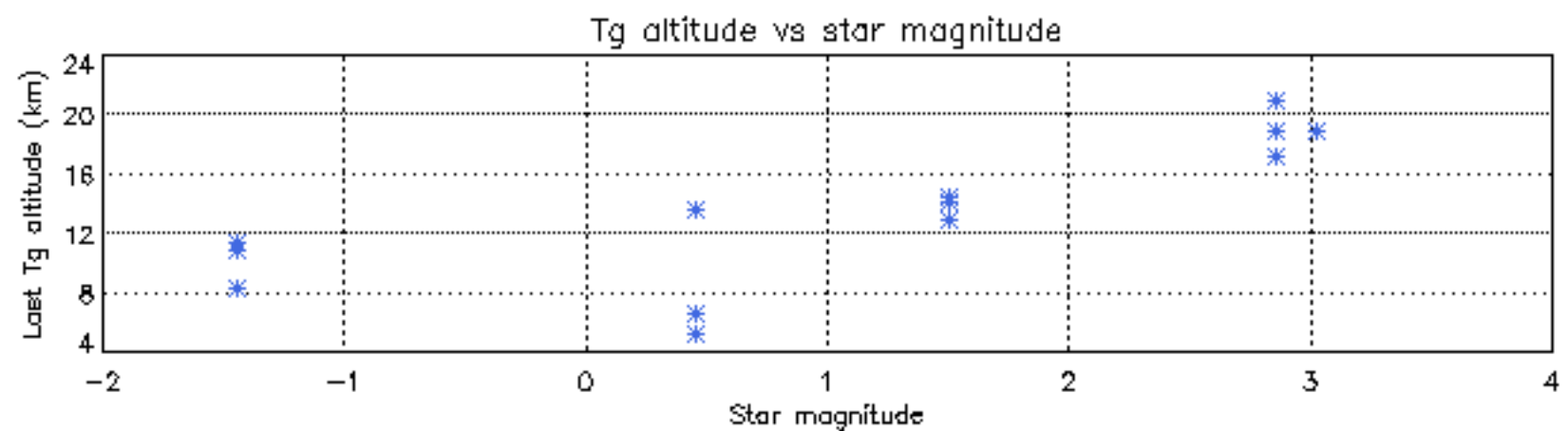
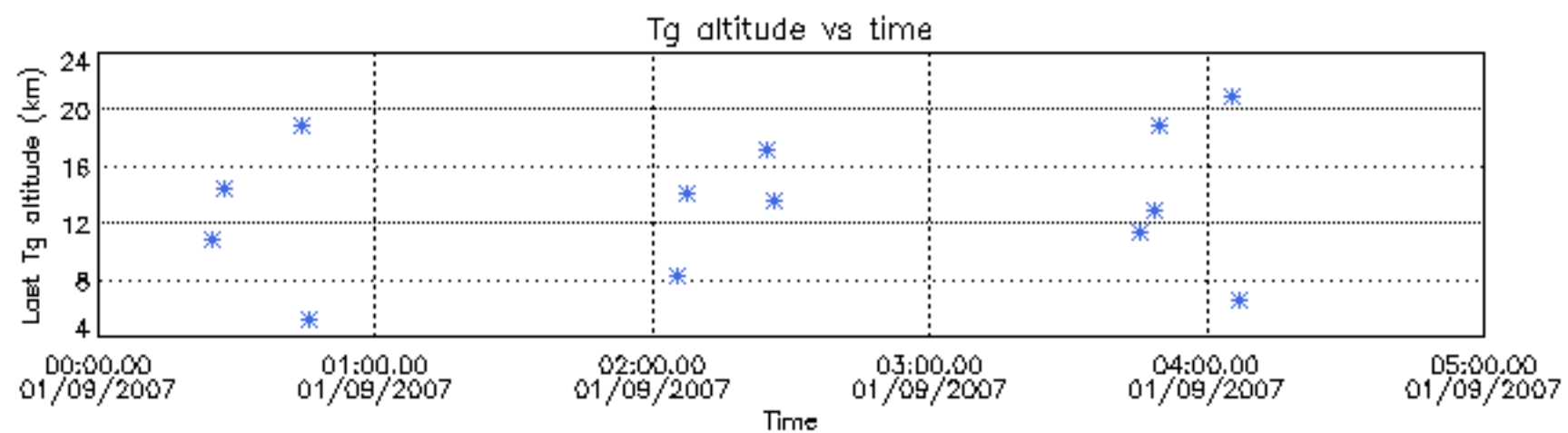


Percentage of saturation errors per profile

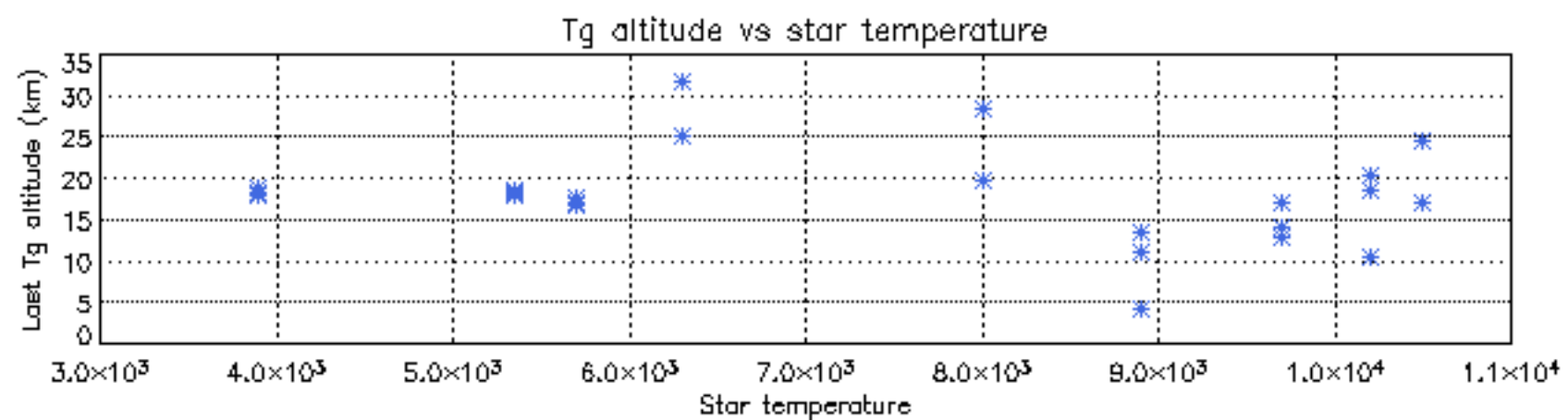
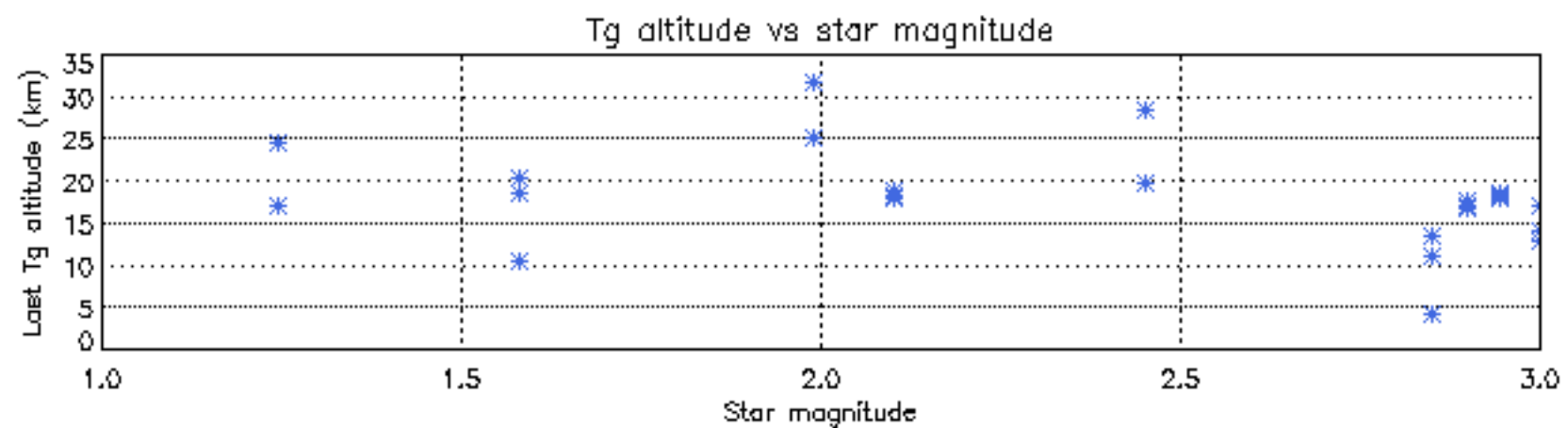
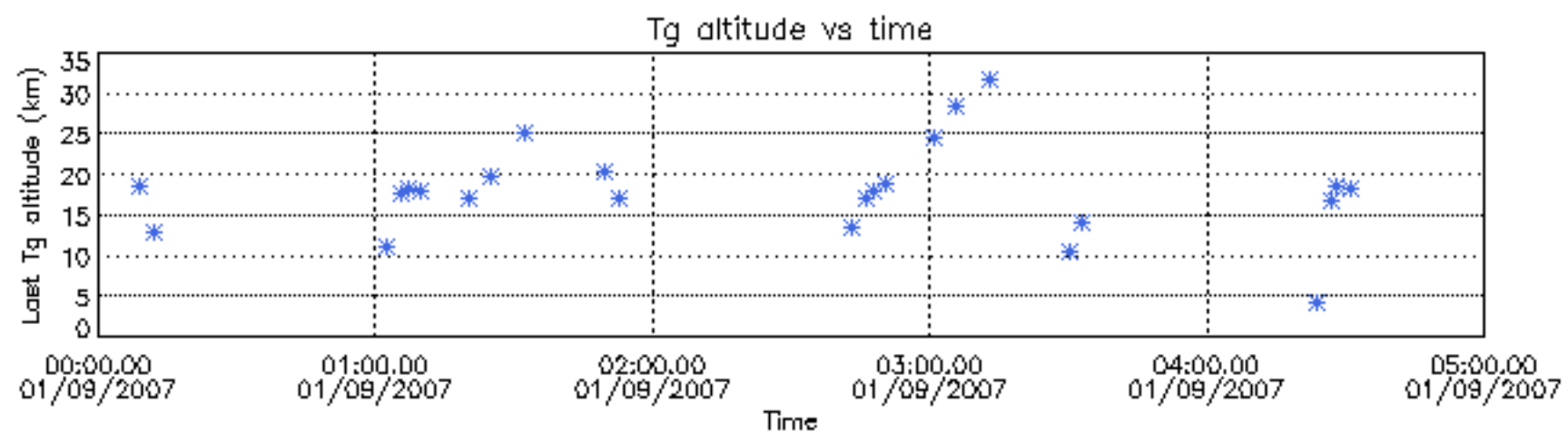




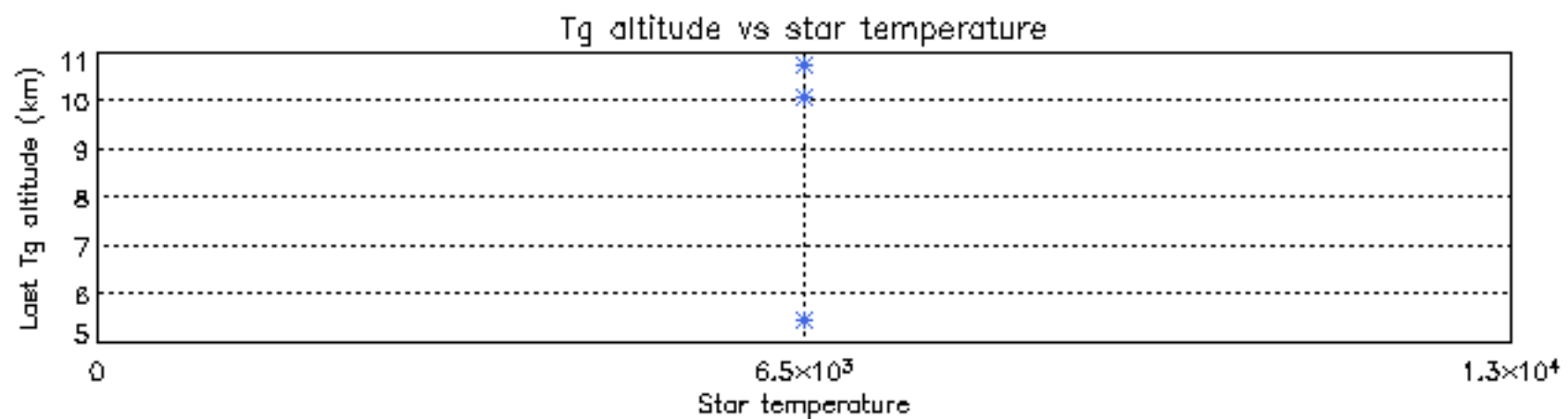
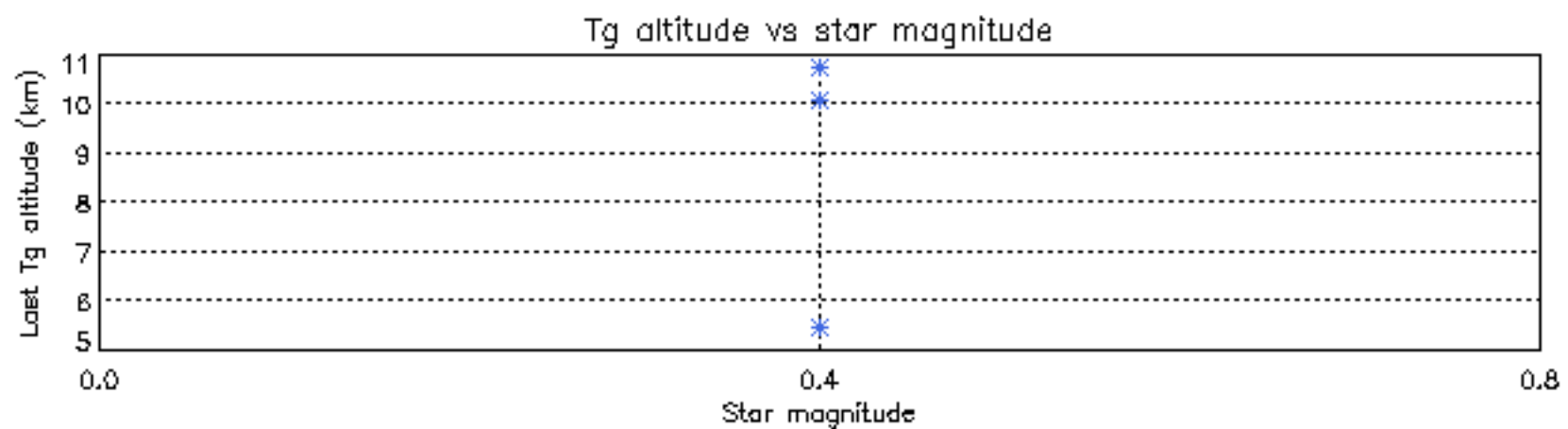
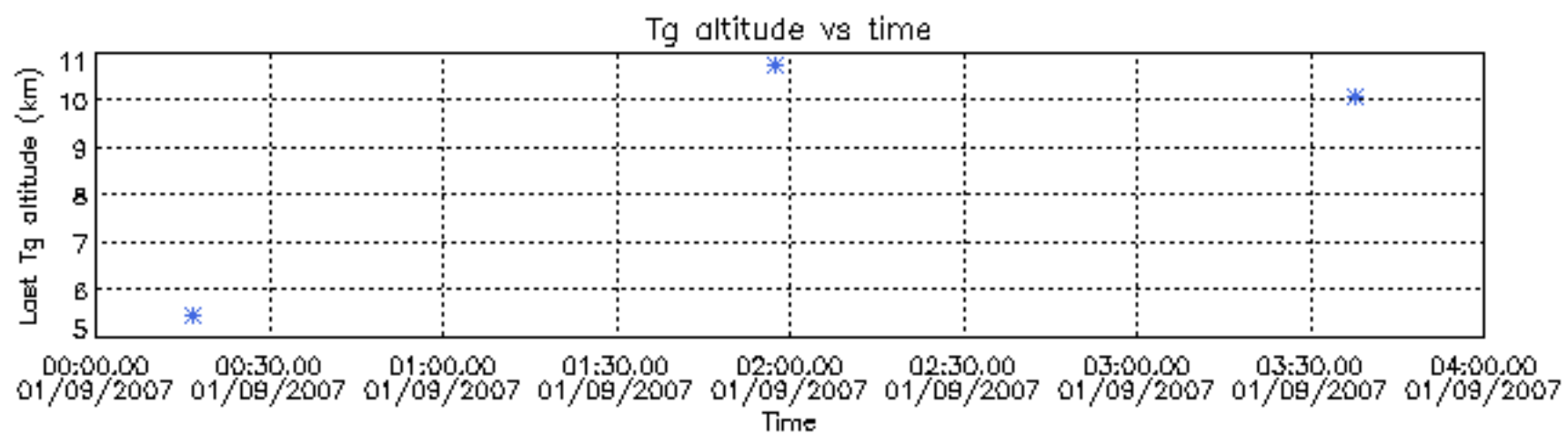
Tangent altitude at which the star is lost



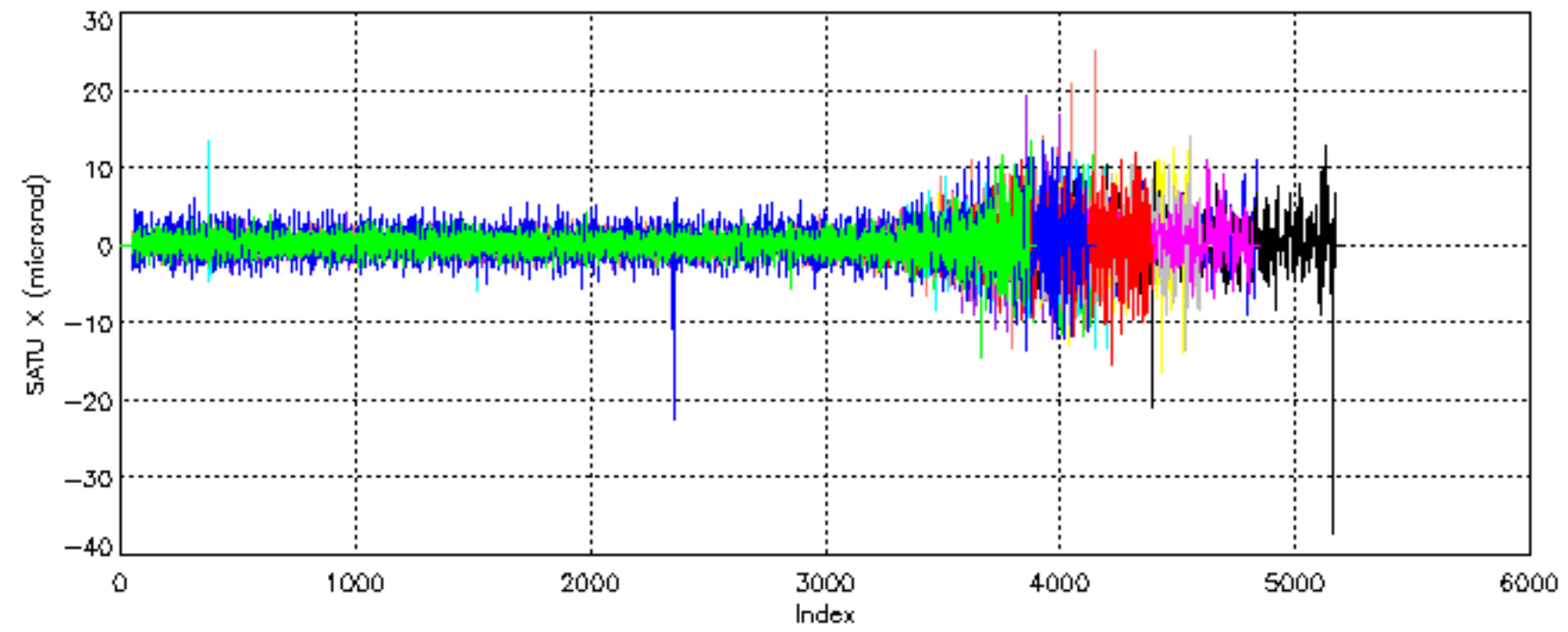
Tangent altitude at which the star is lost

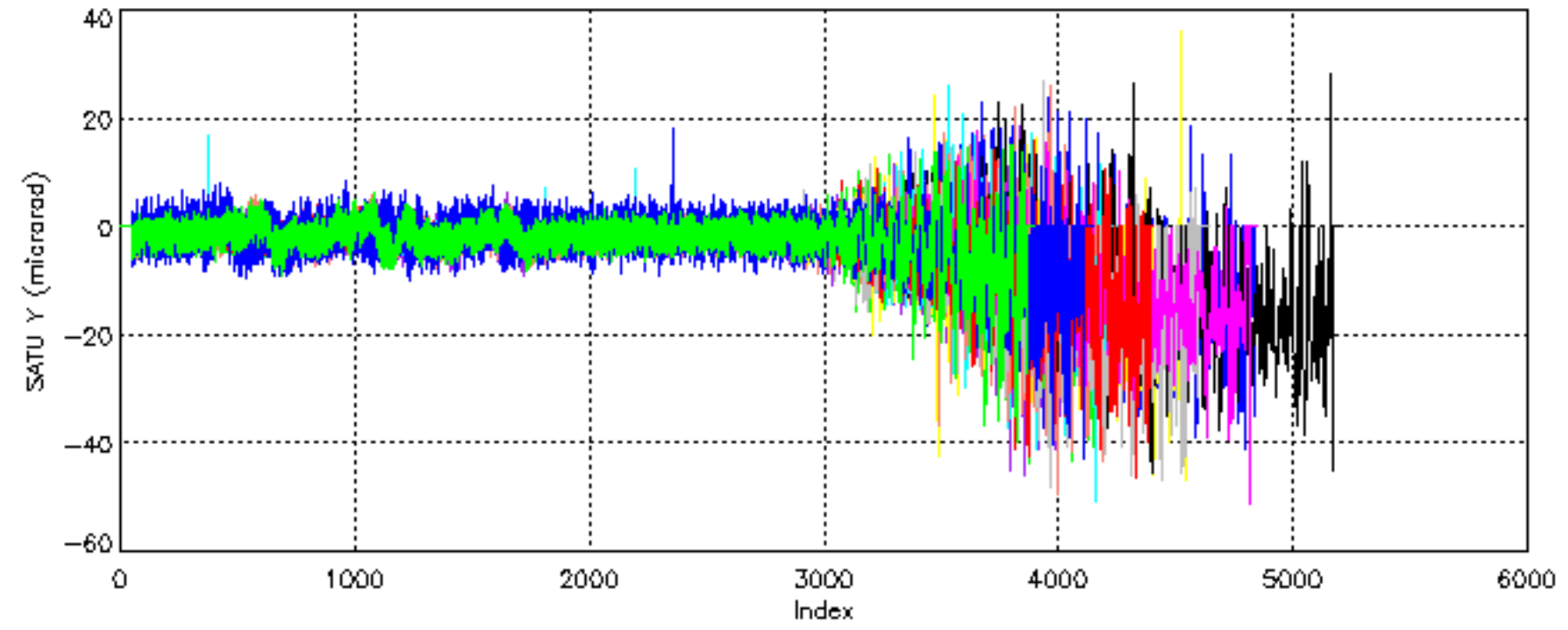


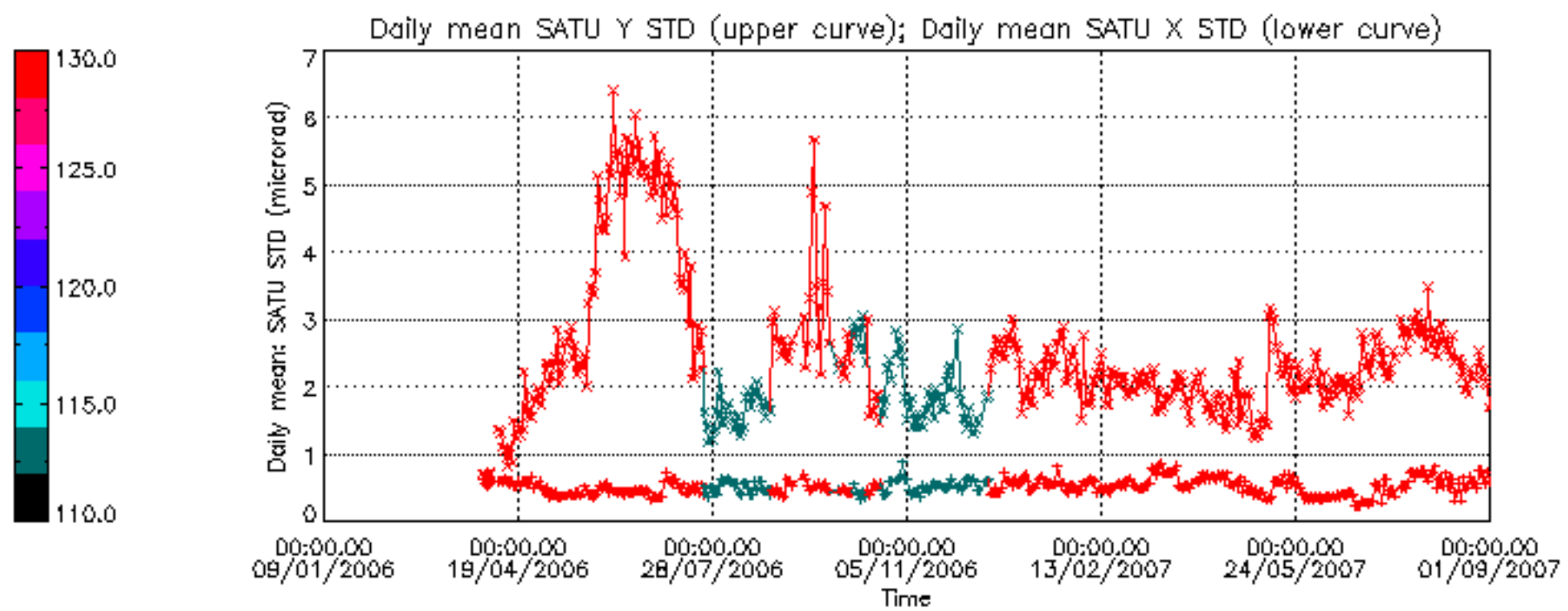
Tangent altitude at which the star is lost











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 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770  
 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  
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772  
 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  
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773  
 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  
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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
 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
 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
16; 4916.9; 01-SEP-2007 23:44:32; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28784
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 2; -492.5; 01-SEP-2007 23:54:59; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;28784
 3; -390.1; 01-SEP-2007 23:56:41; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28784
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 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  
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 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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 3; 2974.8; 02-SEP-2007 07:35:10; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;28789  
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 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  
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 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  
 5; 3434.6; 02-SEP-2007 09:23:25; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 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
16; 7091.1; 02-SEP-2007 10:24:22; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;28790
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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 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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 4; 1895.4; 03-SEP-2007 16:49:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28809  
 5; 2074.7; 03-SEP-2007 16:52:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28809  
 6; 2973.2; 03-SEP-2007 17:07:06; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28809  
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 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809  
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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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 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809  
 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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 3; 1624.0; 03-SEP-2007 18:25:13; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;28810  
 4; 1810.8; 03-SEP-2007 18:28:20; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28810  
 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810  
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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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 11; 5395.6; 03-SEP-2007 19:28:05; Dark ; 57.5; 1; 9Alp CMA ; -1.44; 11000;occ; 115; 0;28810  
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 13; 5648.2; 03-SEP-2007 19:32:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;28810  
 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810  
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 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810  
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 3; 3164.7; 04-SEP-2007 04:54:29; Bright; 88.5; 53; 43Bet And ; 2.05; 3300;occ; 177; 0;28816
 4; 3535.1; 04-SEP-2007 05:00:40; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;28816
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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
 4; -679.3; 04-SEP-2007 05:31:01; Dark ; 148.5; 13; 87Alp Tau ; 0.87; 3800;occ; 297; 0;28816
 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
 6; 991.7; 04-SEP-2007 05:58:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28817
 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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 3; 1018.3; 05-SEP-2007 00:25:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28828
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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
 6; 3957.3; 05-SEP-2007 01:14:53; Bright; 104.5; 79; 26Bet Per ; 2.31; 13100;occ; 209; 0;28828
 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 3; -1403.8; 04-SEP-2007 06:59:33; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28817
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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
 5; -1402.9; 04-SEP-2007 08:40:09; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28818
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5; 2970.9; 06-SEP-2007 15:32:13; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28851
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