

# GOMOS Daily Report 15-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 09:26:50
Data source version	GOMOS/5.00
Start time of products	15-09-2007 (15SEP2007 00:00:00)
Stop time of products	16-09-2007 (16SEP2007 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)

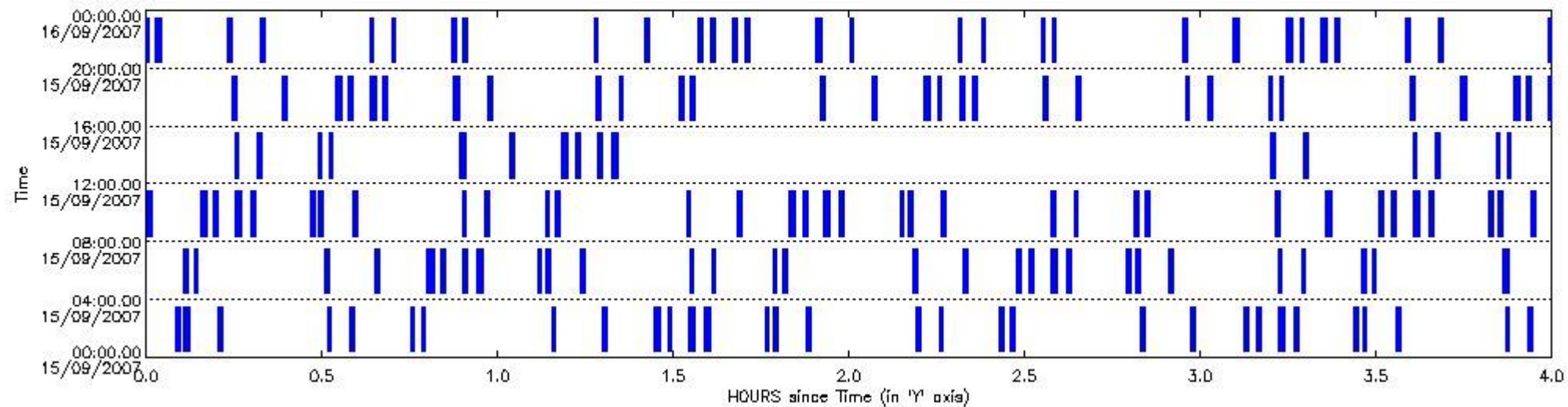
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

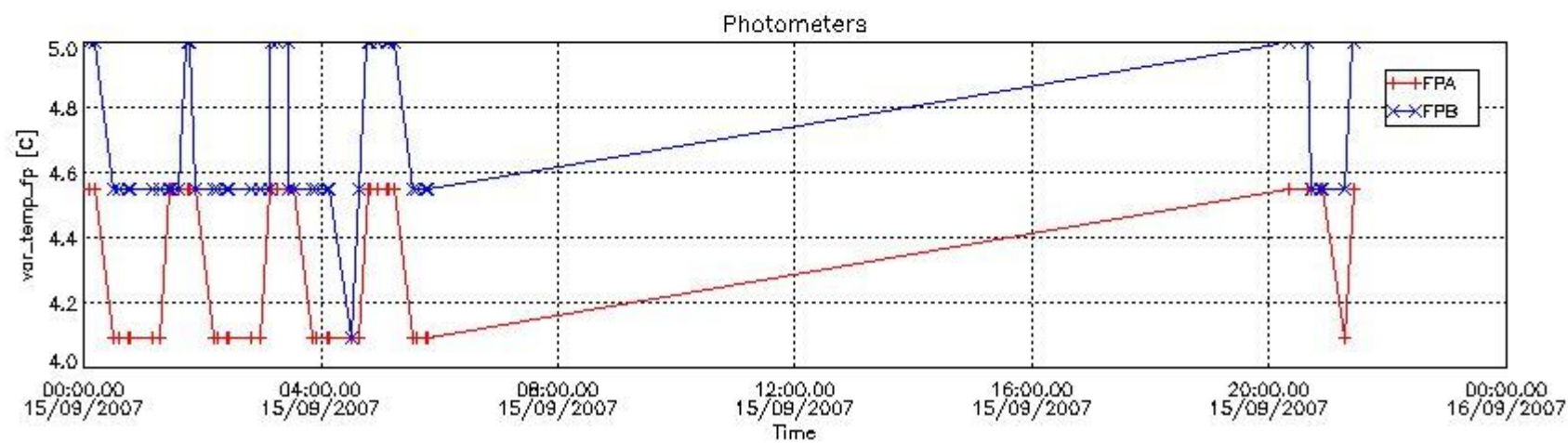
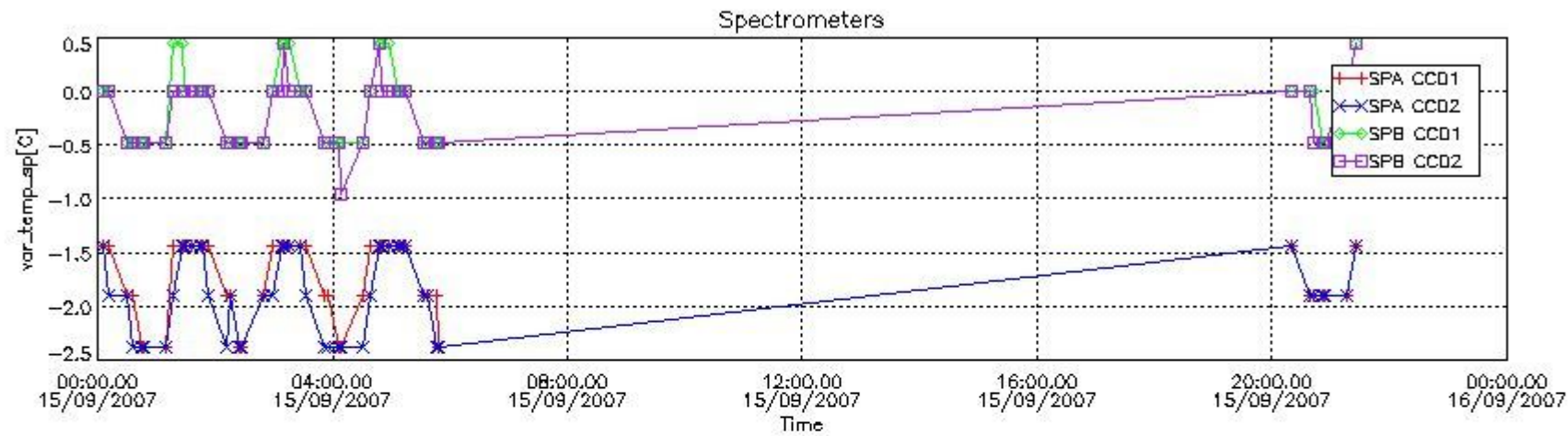
No missing products.

### 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_1PNPDE20070915_000500_000000392061_00360_28971_8180.N1	15-SEP-2007 00:05:00	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28971	No
2	GOM_TRA_1PNPDE20070915_000625_000000522061_00360_28971_8181.N1	15-SEP-2007 00:06:25	Dark	52.000	9	Alp Eri	0.45300	24000.	104	28971	No
3	GOM_TRA_1PNPDE20070915_001211_000000442061_00360_28971_8182.N1	15-SEP-2007 00:12:11	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	28971	No
4	GOM_TRA_1PNPDE20070915_003055_000000412061_00360_28971_8183.N1	15-SEP-2007 00:30:55	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	28971	No
5	GOM_TRA_1PNPDE20070915_003449_000000422061_00360_28971_8184.N1	15-SEP-2007 00:34:49	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	28971	No
6	GOM_TRA_1PNPDE20070915_004509_000000412061_00360_28971_8185.N1	15-SEP-2007 00:45:09	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	28971	No
7	GOM_TRA_1PNPDE20070915_004659_000000422061_00360_28971_8186.N1	15-SEP-2007 00:46:59	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	28971	No
8	GOM_TRA_1PNPDE20070915_010911_000000442061_00360_28971_8187.N1	15-SEP-2007 01:09:11	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	28971	No
9	GOM_TRA_1PNPDE20070915_011744_000000542061_00360_28971_8188.N1	15-SEP-2007 01:17:44	Twilight	54.000	8	10Alp CMi	0.40000	6500.0	108	28971	No
10	GOM_TRA_1PNPDE20070915_012641_000000572061_00360_28971_8309.N1	15-SEP-2007 01:26:41	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	28971	No
11	GOM_TRA_1PNPDE20070915_012858_000000462061_00360_28971_8310.N1	15-SEP-2007 01:28:58	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	28971	No
12	GOM_TRA_1PNPDE20070915_013519_000000562061_00361_28972_8311.N1	15-SEP-2007 01:35:19	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	28972	No

13	GOM_TRA_1PNPDE20070915_014537_000000402061_00361_28972_8312.N1	15-SEP-2007 01:45:37	Dark	40.000	143	Alp Hyl	2.8570	7200.0	80	28972	No
14	GOM_TRA_1PNPDE20070915_014702_000000482061_00361_28972_8313.N1	15-SEP-2007 01:47:02	Dark	47.500	9	Alp Eri	0.45300	24000.	95	28972	No
15	GOM_TRA_1PNPDE20070915_015247_000000452061_00361_28972_8314.N1	15-SEP-2007 01:52:47	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	28972	No
16	GOM_TRA_1PNPDE20070915_021131_000000412061_00361_28972_8315.N1	15-SEP-2007 02:11:31	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	28972	No
17	GOM_TRA_1PNPDE20070915_021525_000000392061_00361_28972_8316.N1	15-SEP-2007 02:15:25	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	28972	No
18	GOM_TRA_1PNPDE20070915_022544_000000392061_00361_28972_8317.N1	15-SEP-2007 02:25:44	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	28972	No
19	GOM_TRA_1PNPDE20070915_022734_000000412061_00361_28972_8318.N1	15-SEP-2007 02:27:34	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	28972	No
20	GOM_TRA_1PNPDE20070915_024947_000000432061_00361_28972_8485.N1	15-SEP-2007 02:49:47	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	28972	No
21	GOM_TRA_1PNPDE20070915_025821_000000472061_00361_28972_8486.N1	15-SEP-2007 02:58:21	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	28972	No
22	GOM_TRA_1PNPDE20070915_030718_000000592061_00361_28972_8487.N1	15-SEP-2007 03:07:18	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	28972	No
23	GOM_TRA_1PNPDE20070915_030935_000000502061_00361_28972_8488.N1	15-SEP-2007 03:09:35	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	28972	No
24	GOM_TRA_1PNPDE20070915_031555_000000472061_00362_28973_8489.N1	15-SEP-2007 03:15:55	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	28973	No
25	GOM_TRA_1PNPDE20070915_032613_000000392061_00362_28973_8490.N1	15-SEP-2007 03:26:13	Dark	39.000	143	Alp Hyl	2.8570	7200.0	78	28973	No
26	GOM_TRA_1PNPDE20070915_032738_000000482061_00362_28973_8491.N1	15-SEP-2007 03:27:38	Dark	48.000	9	Alp Eri	0.45300	24000.	96	28973	No
27	GOM_TRA_1PNPDE20070915_033324_000000482061_00362_28973_8492.N1	15-SEP-2007 03:33:24	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	28973	No
28	GOM_TRA_1PNPDE20070915_035207_000000412061_00362_28973_8493.N1	15-SEP-2007 03:52:07	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	28973	No
29	GOM_TRA_1PNPDE20070915_035601_000000422061_00362_28973_8494.N1	15-SEP-2007 03:56:01	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	28973	No
30	GOM_TRA_1PNPDE20070915_040620_000000402061_00362_28973_8495.N1	15-SEP-2007 04:06:20	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	28973	No
31	GOM_TRA_1PNPDE20070915_040810_000000402061_00362_28973_8496.N1	15-SEP-2007 04:08:10	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	28973	No
32	GOM_TRA_1PNPDE20070915_043023_000000452061_00362_28973_8668.N1	15-SEP-2007 04:30:23	Bright	44.500	24	66Alp Gem	1.5800	10200.	89	28973	No
33	GOM_TRA_1PNPDE20070915_043857_000000522061_00362_28973_8669.N1	15-SEP-2007 04:38:57	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	28973	No
34	GOM_TRA_1PNPDE20070915_044755_000000702061_00362_28973_8670.N1	15-SEP-2007 04:47:55	Dark	69.500	1	9Alp CMa	-1.4400	11000.	139	28973	No
35	GOM_TRA_1PNPDE20070915_045012_000000502061_00362_28973_8671.N1	15-SEP-2007 04:50:12	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	28973	No
36	GOM_TRA_1PNPDE20070915_045632_000000562061_00363_28974_8672.N1	15-SEP-2007 04:56:32	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	28974	No
37	GOM_TRA_1PNPDE20070915_050650_000000392061_00363_28974_8673.N1	15-SEP-2007 05:06:50	Dark	39.000	143	Alp Hyl	2.8570	7200.0	78	28974	No
38	GOM_TRA_1PNPDE20070915_050815_000000432061_00363_28974_8674.N1	15-SEP-2007 05:08:15	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28974	No
39	GOM_TRA_1PNPDE20070915_051400_000000492061_00363_28974_8675.N1	15-SEP-2007 05:14:00	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	28974	No
40	GOM_TRA_1PNPDE20070915_053243_000000402061_00363_28974_8676.N1	15-SEP-2007 05:32:43	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	28974	No
41	GOM_TRA_1PNPDE20070915_053636_000000382061_00363_28974_8677.N1	15-SEP-2007 05:36:36	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	28974	No
42	GOM_TRA_1PNPDE20070915_054655_000000422061_00363_28974_8678.N1	15-SEP-2007 05:46:55	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	28974	No
43	GOM_TRA_1PNPDE20070915_054845_000000432061_00363_28974_8679.N1	15-SEP-2007 05:48:45	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	28974	No
44	GOM_TRA_1PNPDE20070915_201927_000000462061_00372_28983_9043.N1	15-SEP-2007 20:19:27	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	28983	No
45	GOM_TRA_1PNPDE20070915_203804_000000402061_00372_28983_9044.N1	15-SEP-2007 20:38:04	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	28983	No
46	GOM_TRA_1PNPDE20070915_204157_000000402061_00372_28983_9045.N1	15-SEP-2007 20:41:57	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	28983	No
47	GOM_TRA_1PNPDE20070915_205214_000000412061_00372_28983_9046.N1	15-SEP-2007 20:52:14	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28983	No
48	GOM_TRA_1PNPDE20070915_205403_000000422061_00372_28983_9047.N1	15-SEP-2007 20:54:03	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	28983	No
49	GOM_TRA_1PNPDE20070915_211624_000000432061_00372_28983_9048.N1	15-SEP-2007 21:16:24	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	28983	No
50	GOM_TRA_1PNPDE20070915_212502_000000532061_00372_28983_9049.N1	15-SEP-2007 21:25:02	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	28983	No

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



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

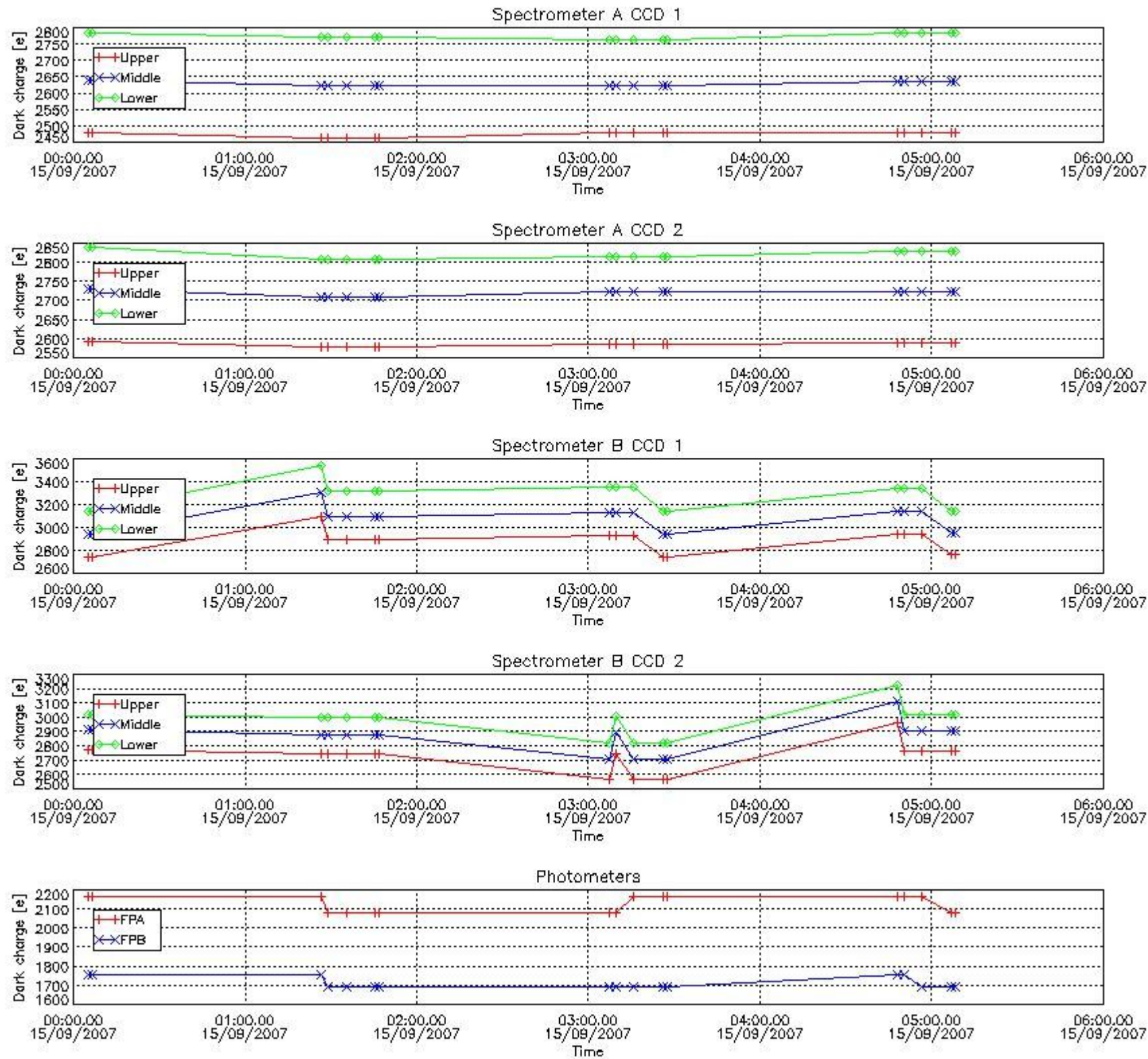
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20070915_201927_000000462061_00372_28983_9043.N1	DC map used
GOM_TRA_1PNPDE20070915_203804_000000402061_00372_28983_9044.N1	DC map used
GOM_TRA_1PNPDE20070915_204157_000000402061_00372_28983_9045.N1	DC map used
GOM_TRA_1PNPDE20070915_205214_000000412061_00372_28983_9046.N1	DC map used
GOM_TRA_1PNPDE20070915_205403_000000422061_00372_28983_9047.N1	DC map used
GOM_TRA_1PNPDE20070915_211624_000000432061_00372_28983_9048.N1	DC map used
GOM_TRA_1PNPDE20070915_212502_000000532061_00372_28983_9049.N1	DC map used

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



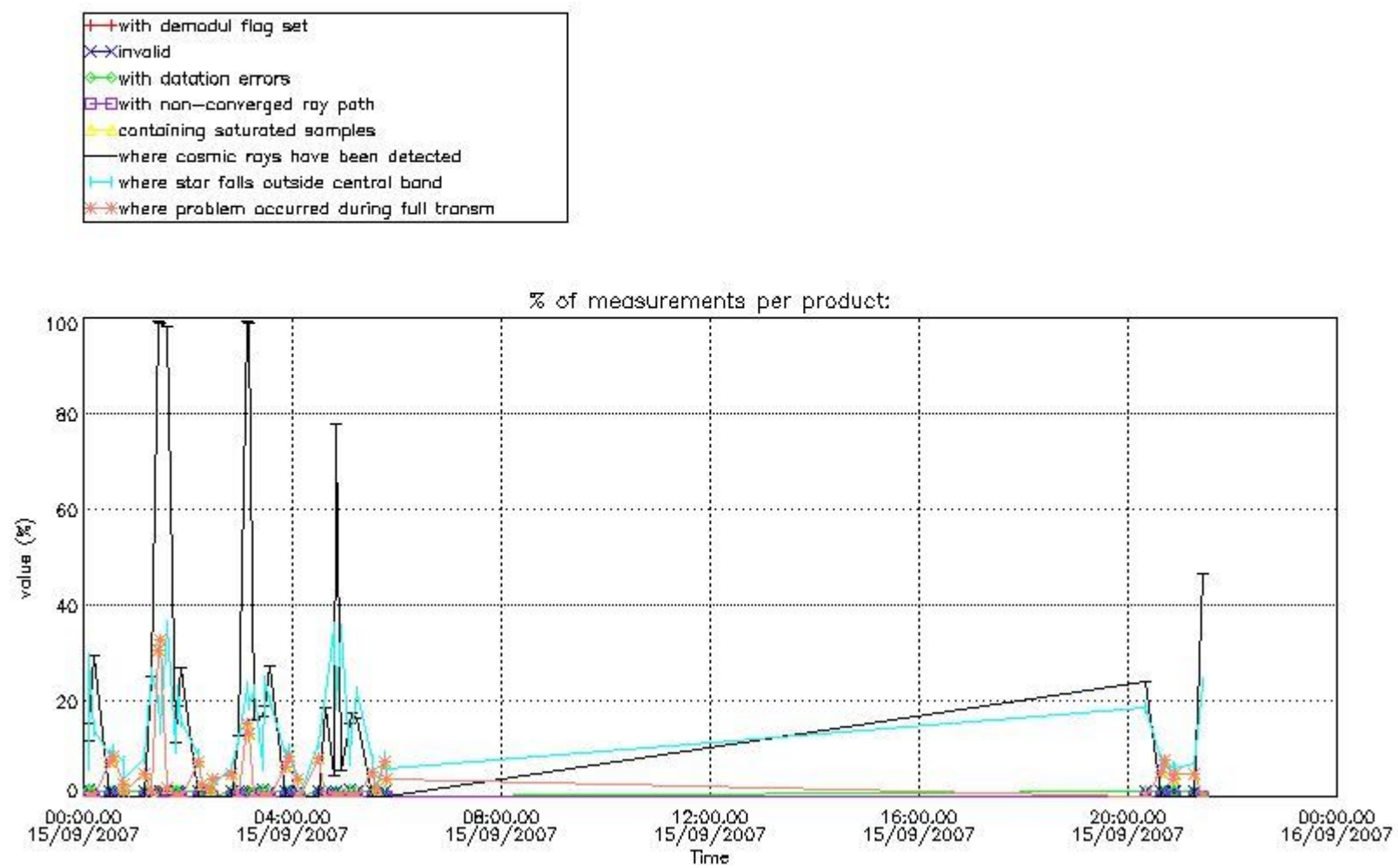
## 5. Demodulation flag and quality information monitoring

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.

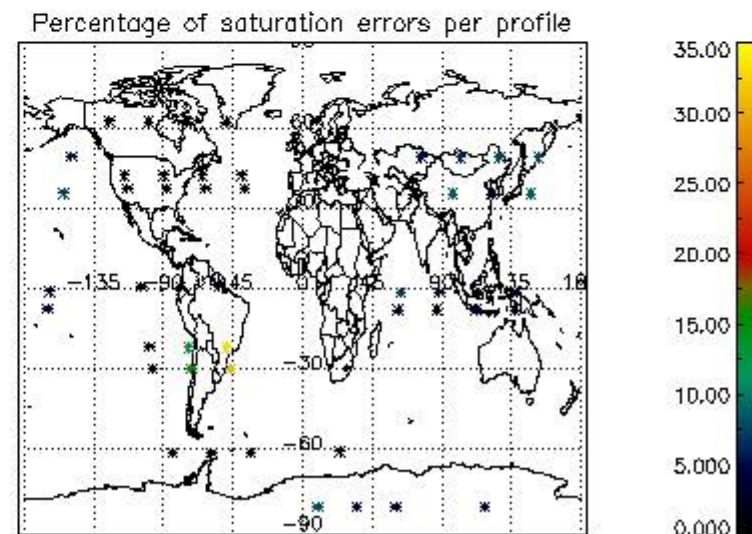
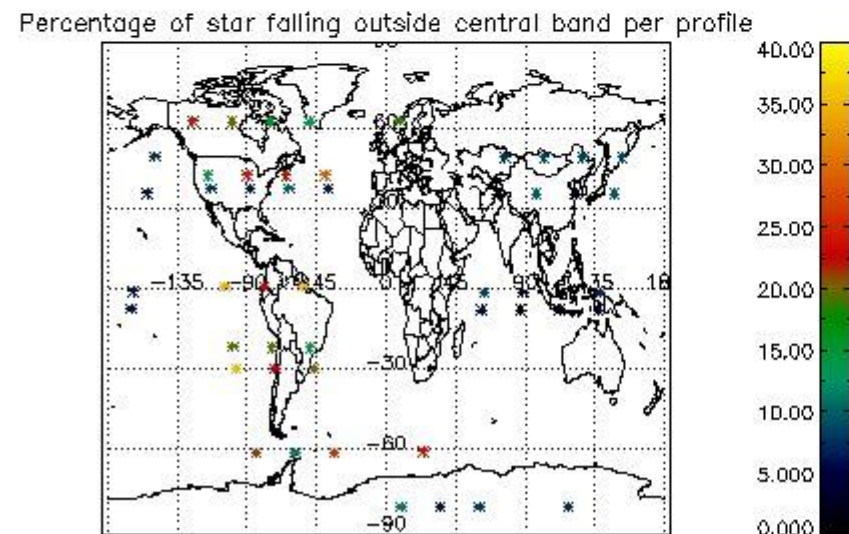
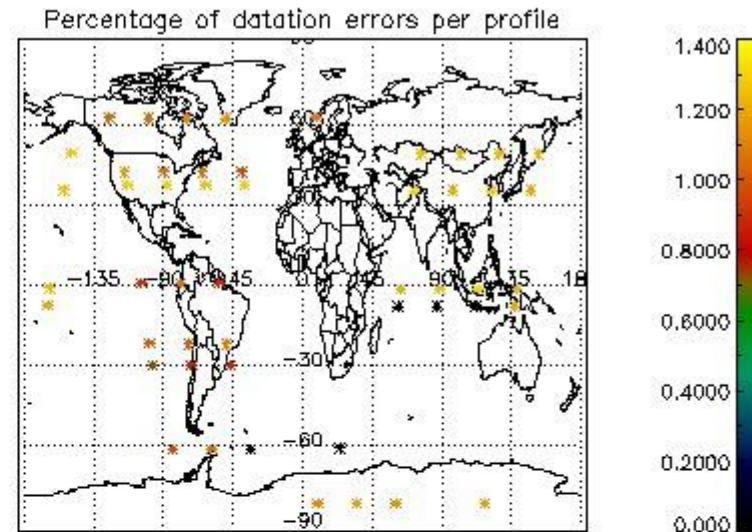
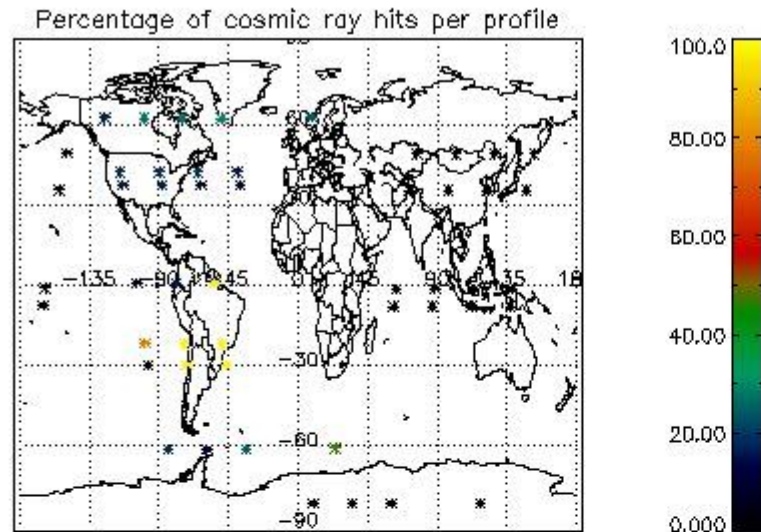
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



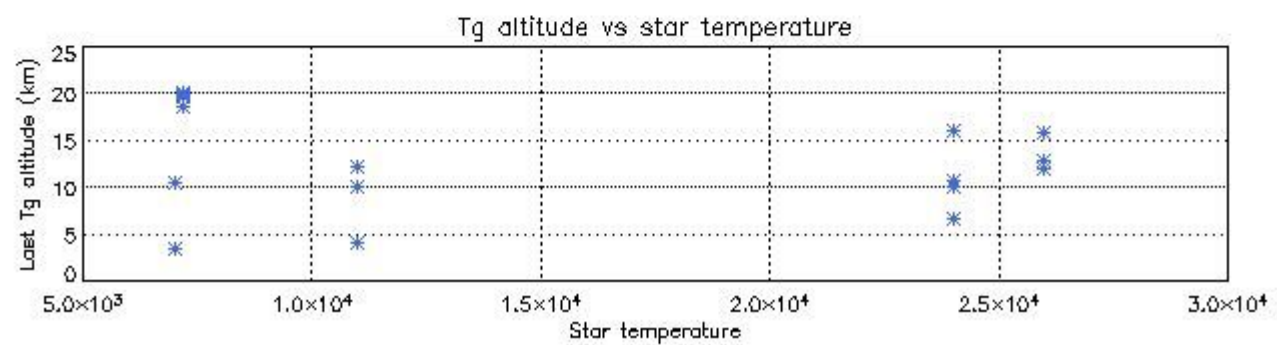
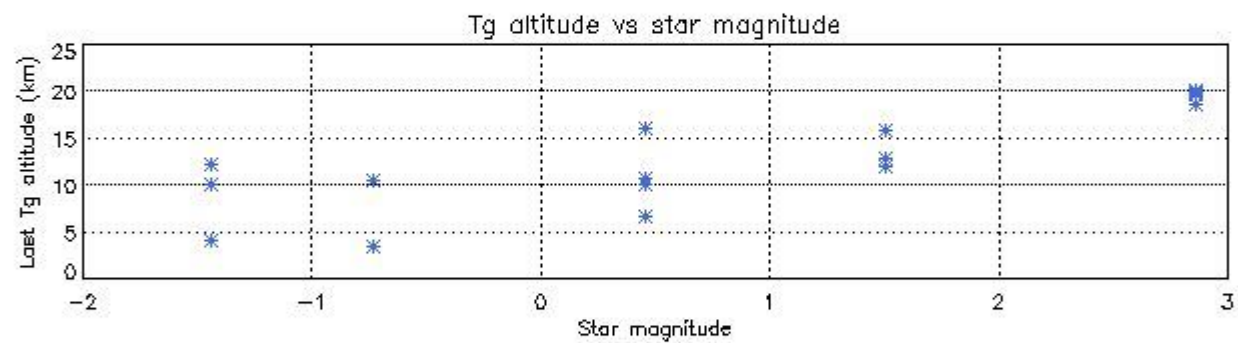
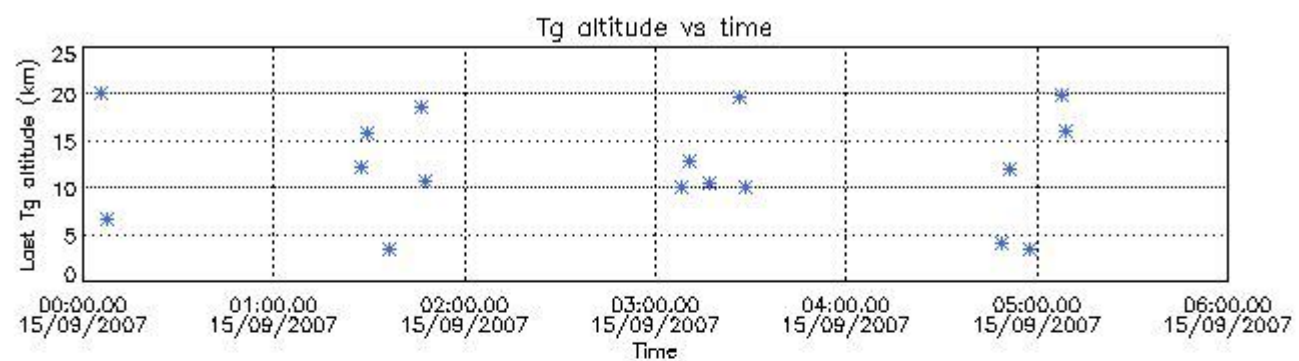
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.110	20.961	11.290
St. deviation:	5.6640	2.7018	2.4479
Maximum:	20.030	27.590	14.792
Minimum:	3.3196	16.950	9.0849
Number of data:	17.000	24.000	4.0000

### 6.2 Plot for DARK limb products

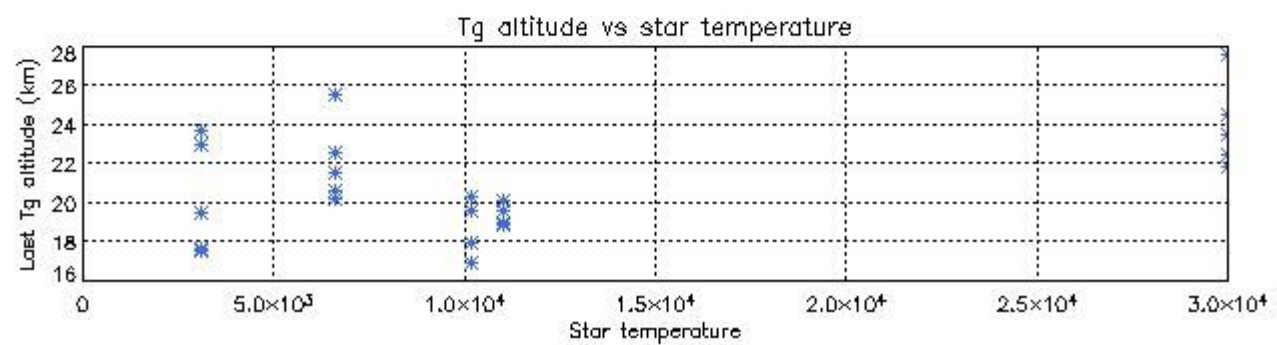
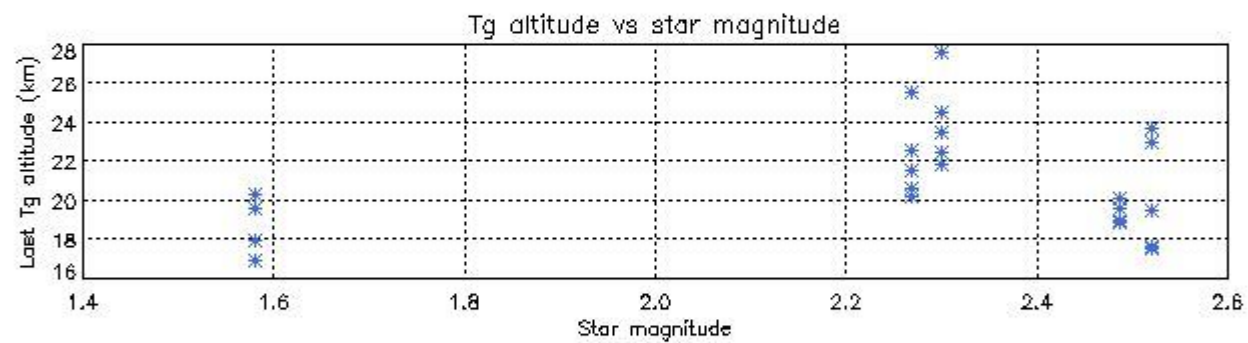
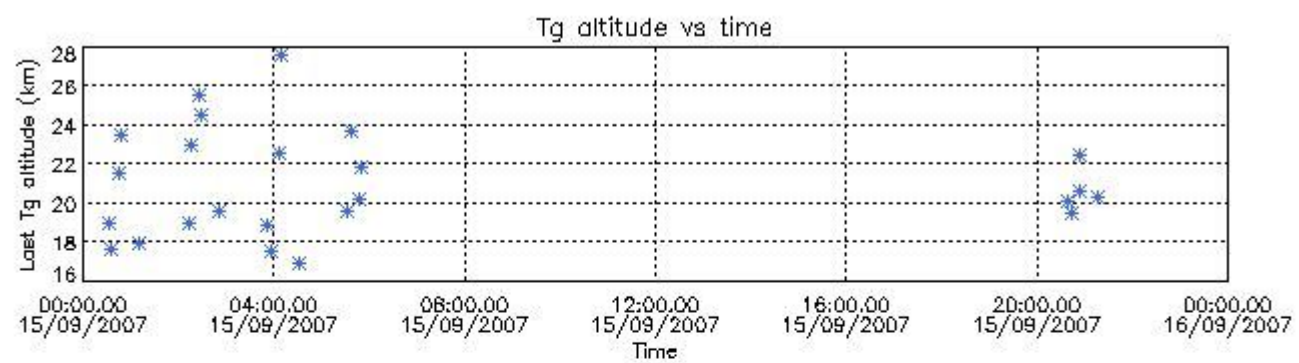
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

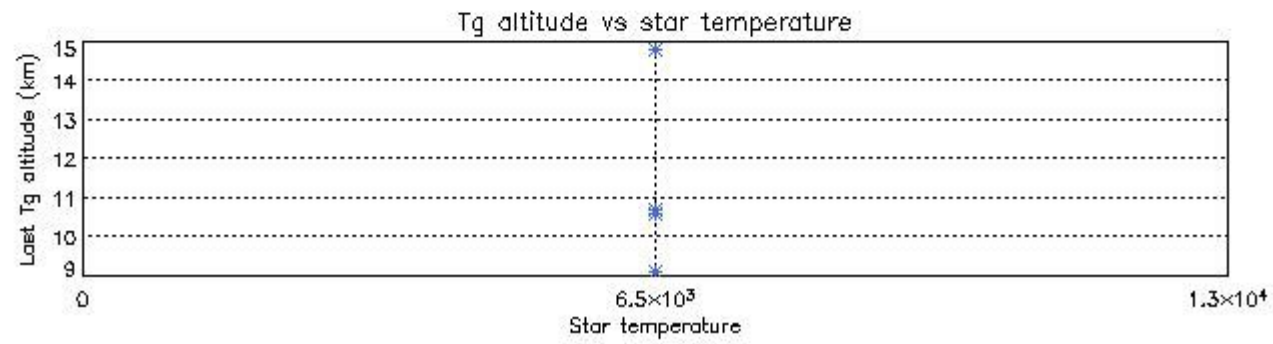
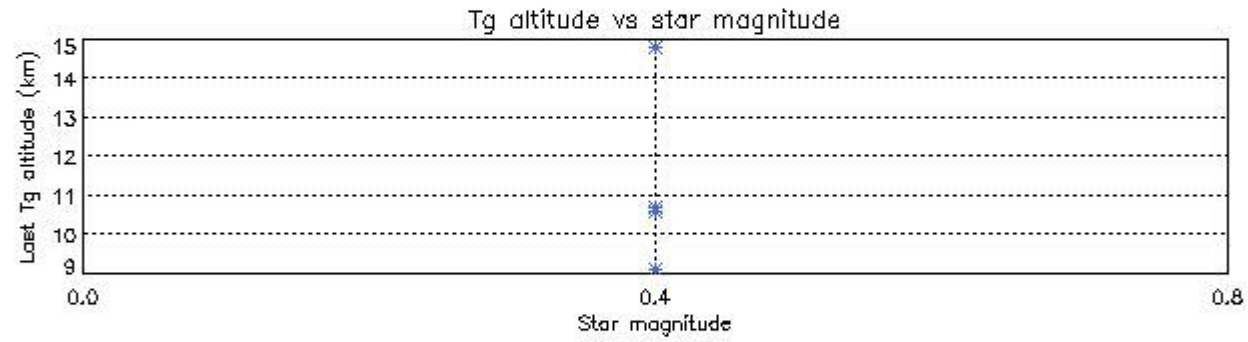
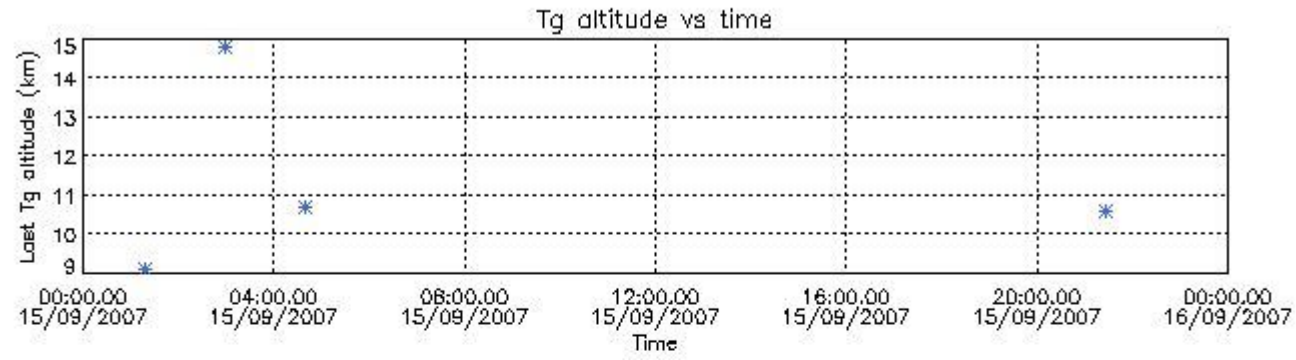


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

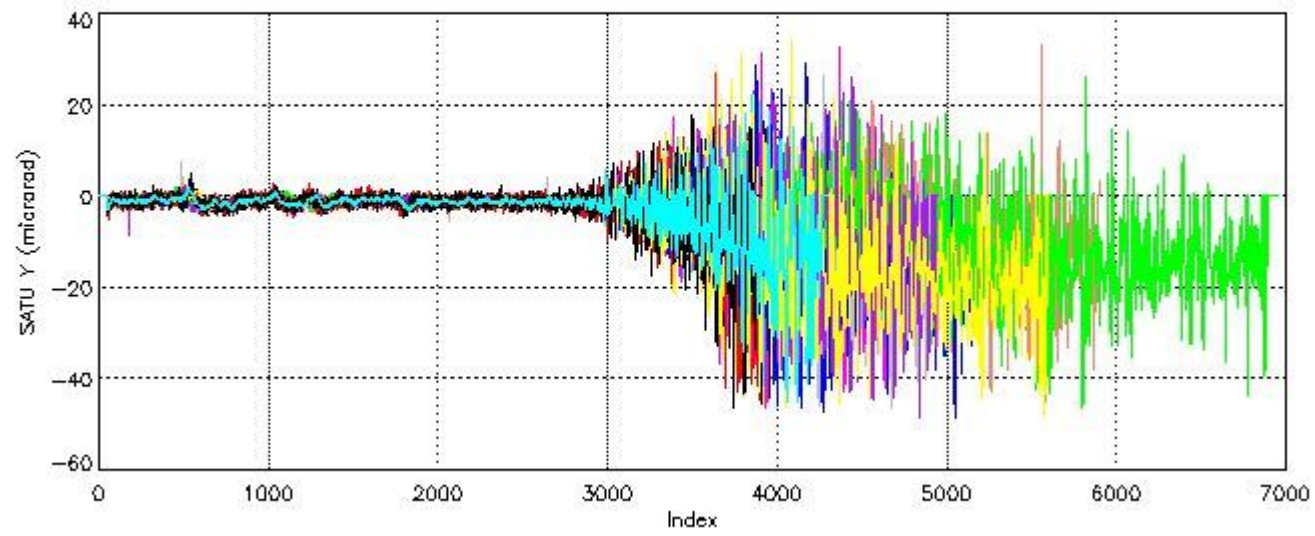
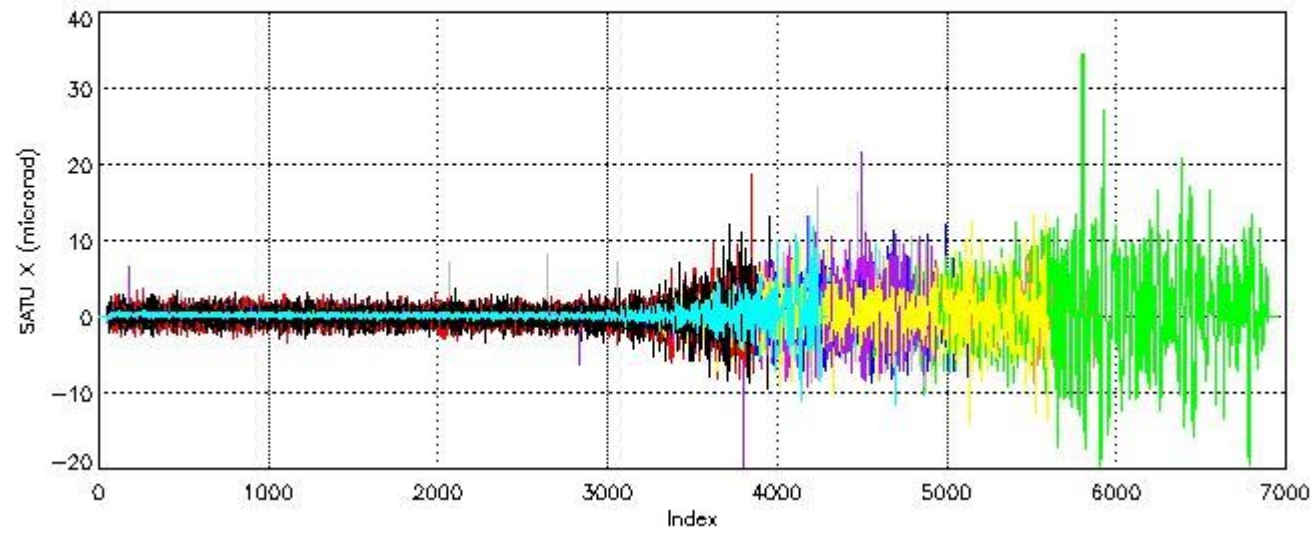


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21427	-1.1296	0.24430	-1.1998
St. deviation:	0.39968	0.87237	0.66726	1.0552
Maximum:	6.6000	7.4000	4.6000	3.6000
Minimum:	-2.9000	-8.6000	-3.8000	-6.6000

Number of data:	17100.	17100.	22550.	22550.
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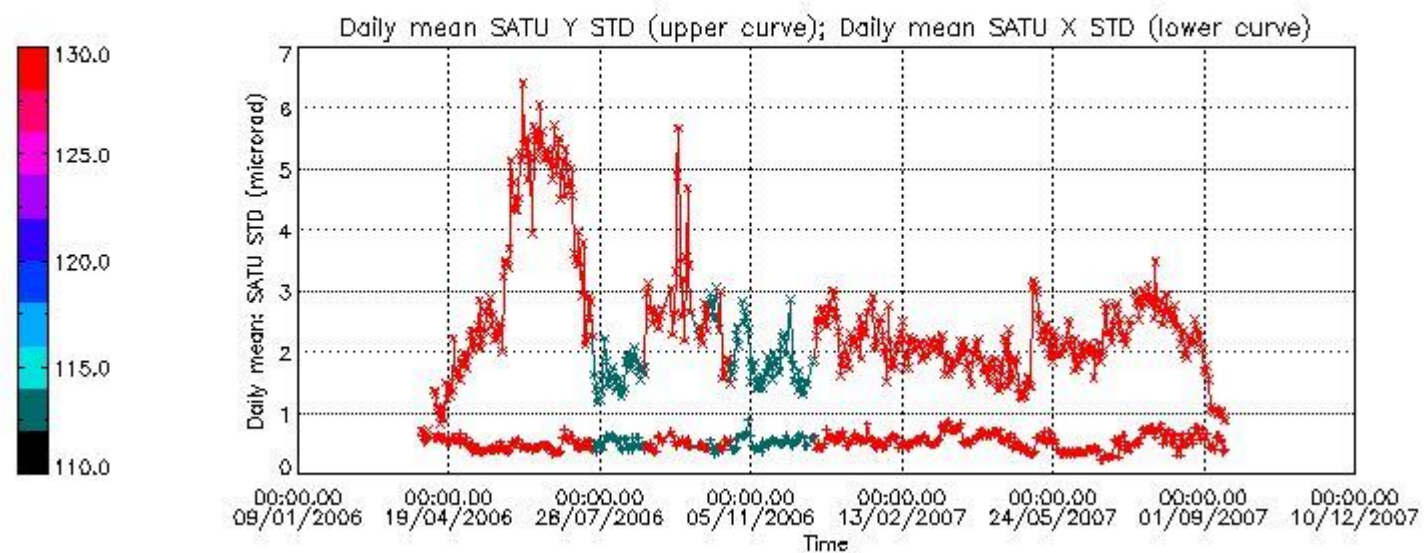
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

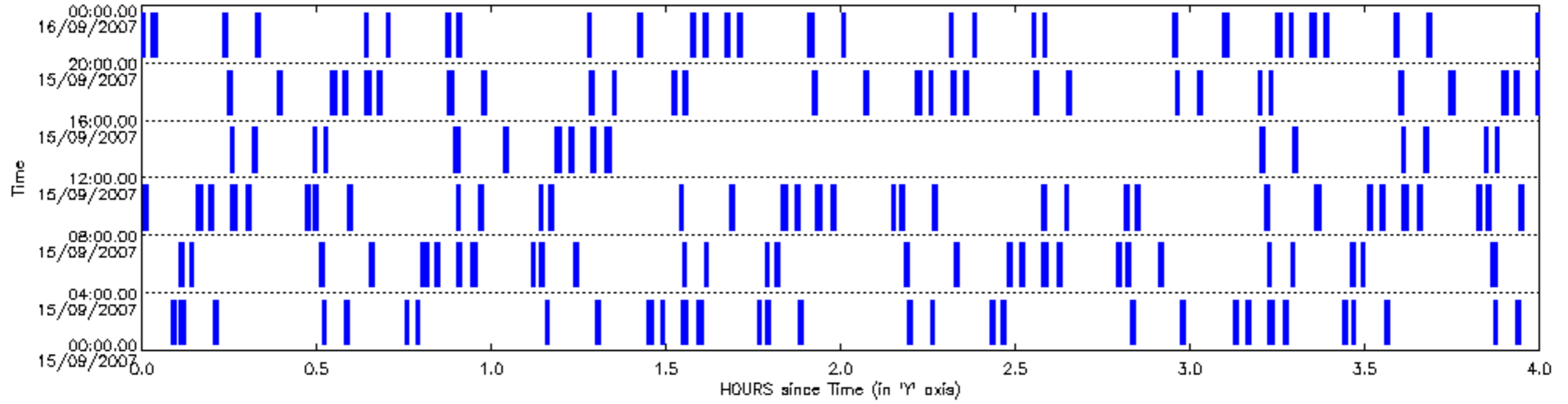
Lower curve: STD of SATU X axis

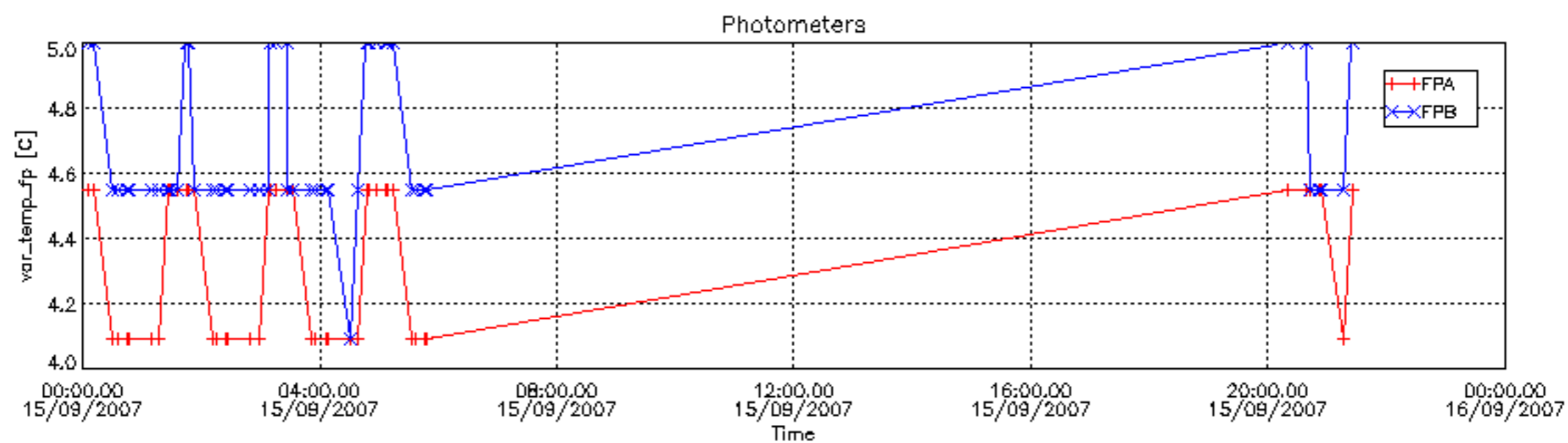
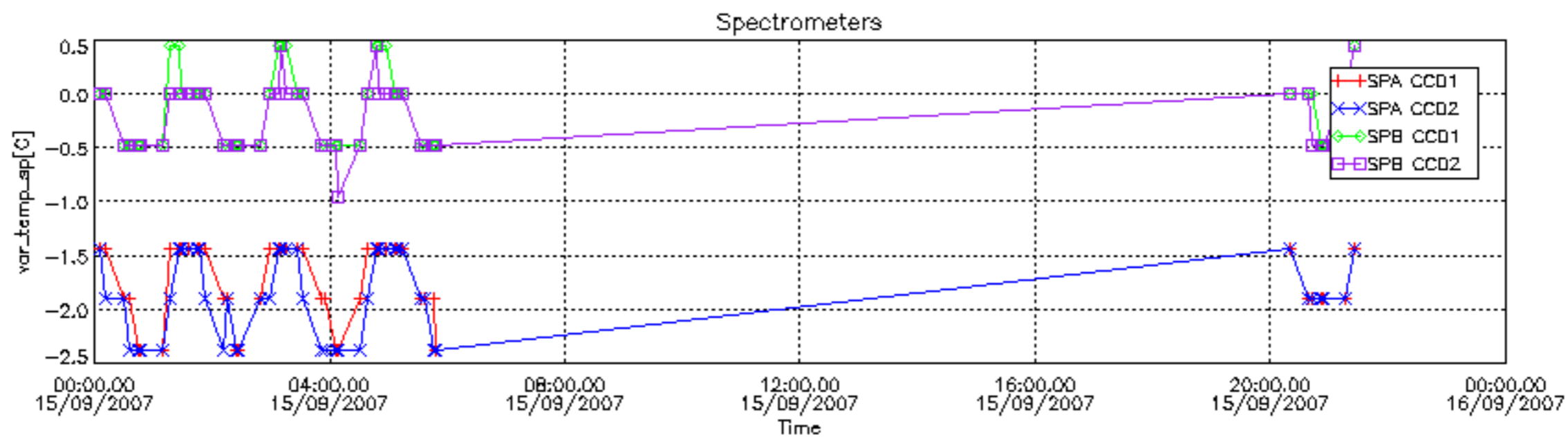


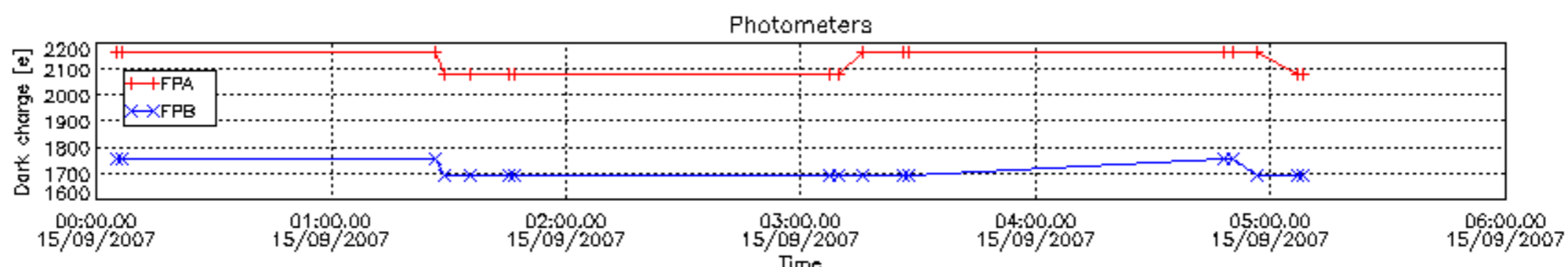
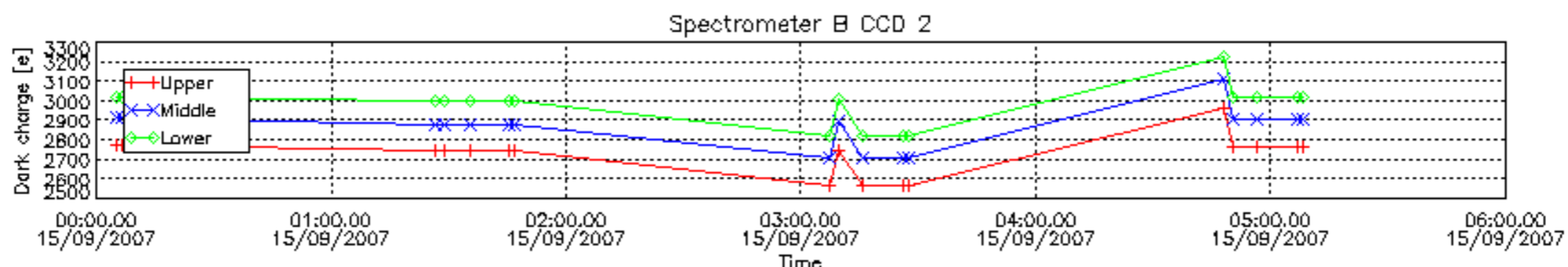
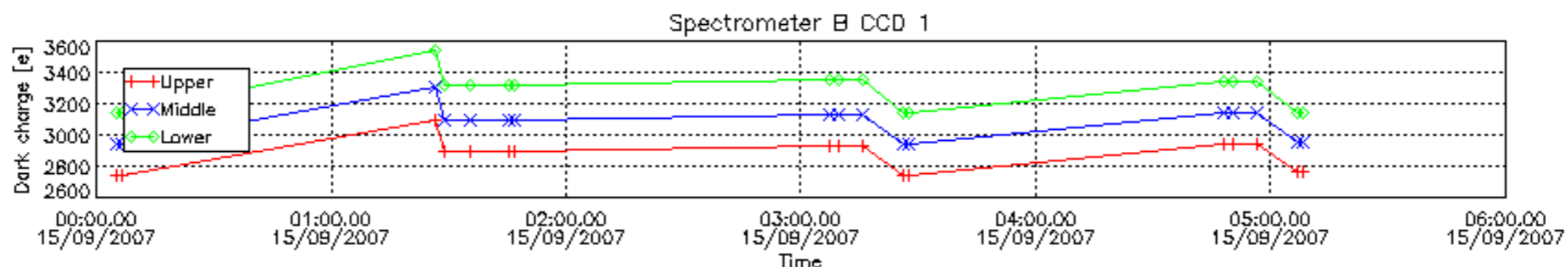
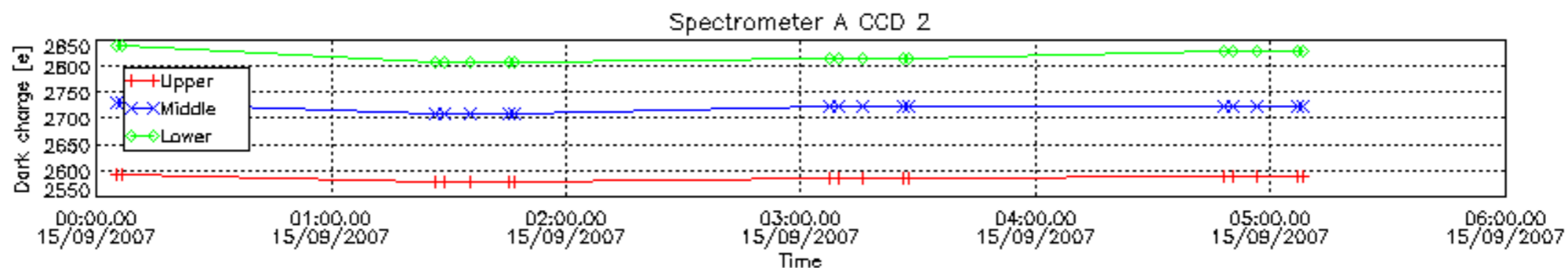
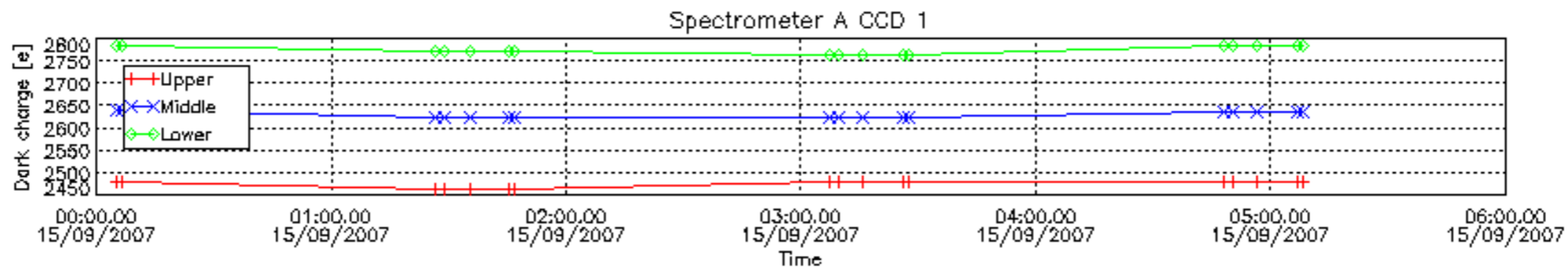
### 8. Auxiliary Data Files used for the production reported in section 2.4

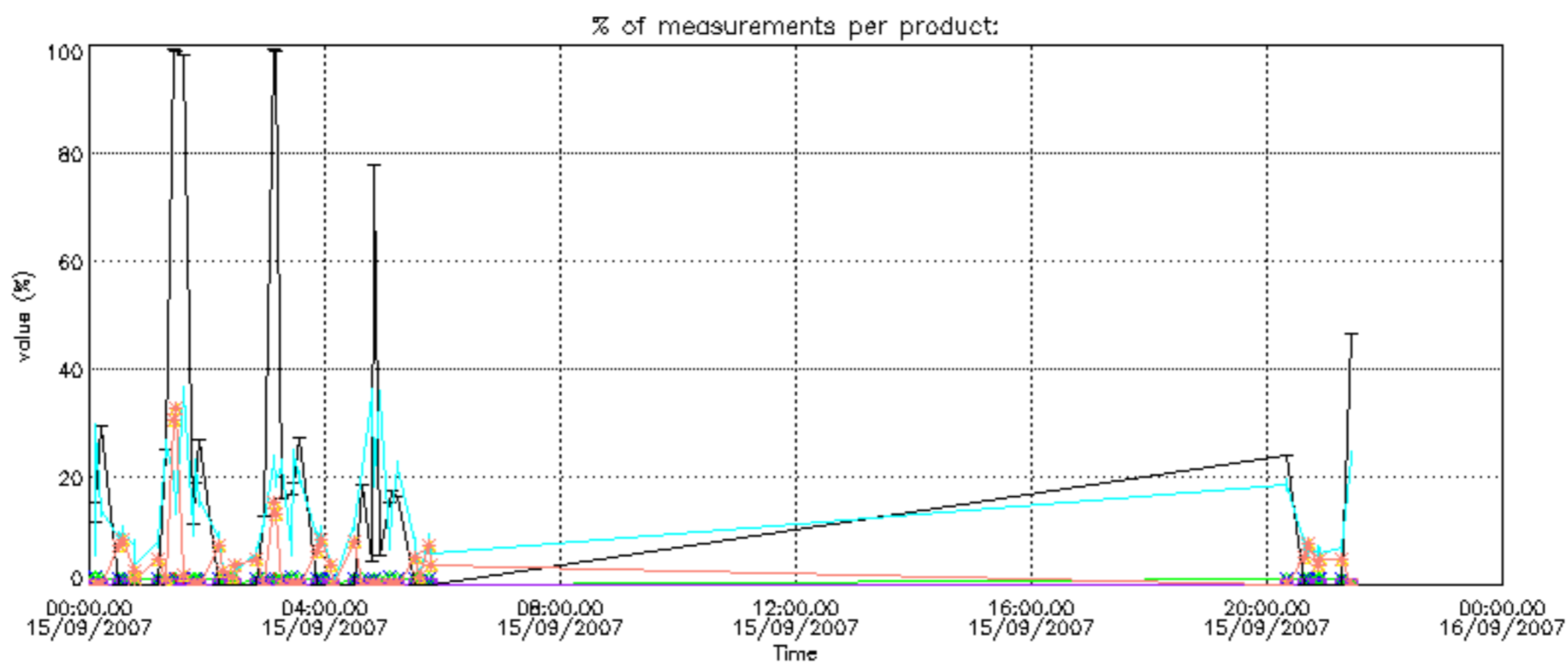
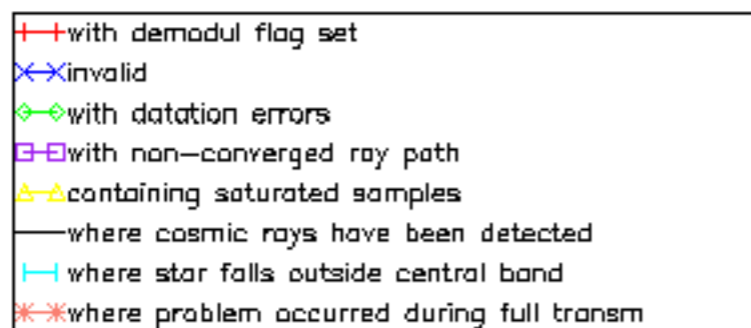
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-SEP-2007 00:05:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	15-SEP-2007 00:05:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-SEP-2007 00:05:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-SEP-2007 00:05:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-SEP-2007 00:05:00
ECMWF_FILE	AUX_ECF_AXNECM20070914_071116_20070914_210000_20070915_090000	1	15-SEP-2007 00:05:00
ECMWF_FILE	AUX_ECF_AXNECM20070914_190117_20070915_030000_20070915_150000	32	15-SEP-2007 04:30:23
ECMWF_FILE	AUX_ECF_AXNECM20070915_071113_20070915_150000_20070916_030000	44	15-SEP-2007 20:19:27
OPTIONAL_ECMWF_FILE	MISSING	1	15-SEP-2007 00:05:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_215643_000060572061_00358_28969_4177.N1	1	15-SEP-2007 00:05:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070914_234258_000054192061_00359_28970_4178.N1	10	15-SEP-2007 01:26:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070915_011837_000041442061_00360_28971_4179.N1	20	15-SEP-2007 02:49:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070915_023300_000057382061_00361_28972_4180.N1	32	15-SEP-2007 04:30:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070915_201538_000038252061_00372_28983_4182.N1	44	15-SEP-2007 20:19:27



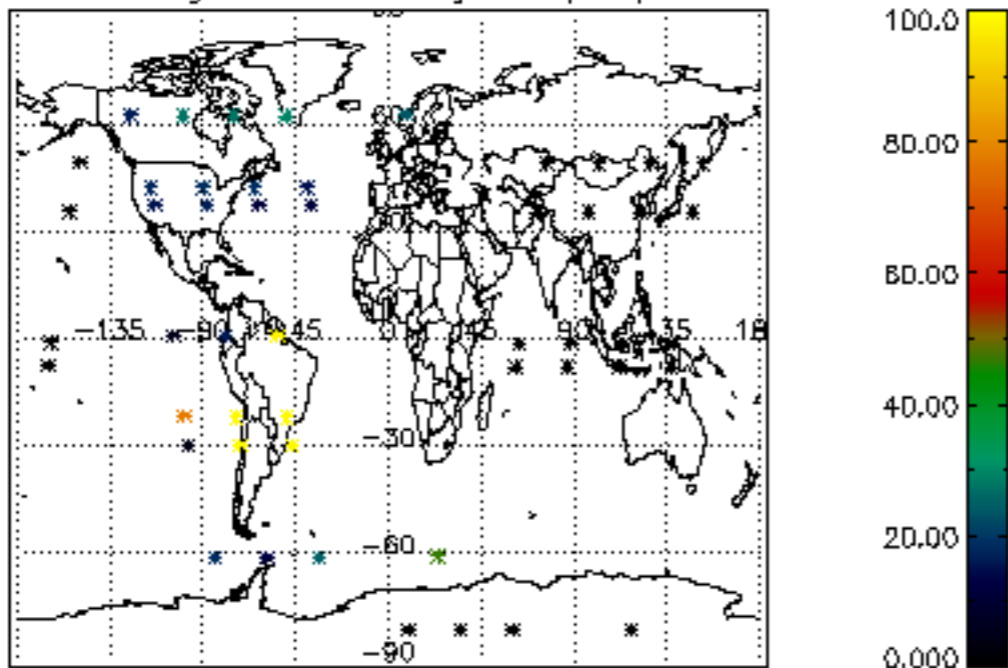




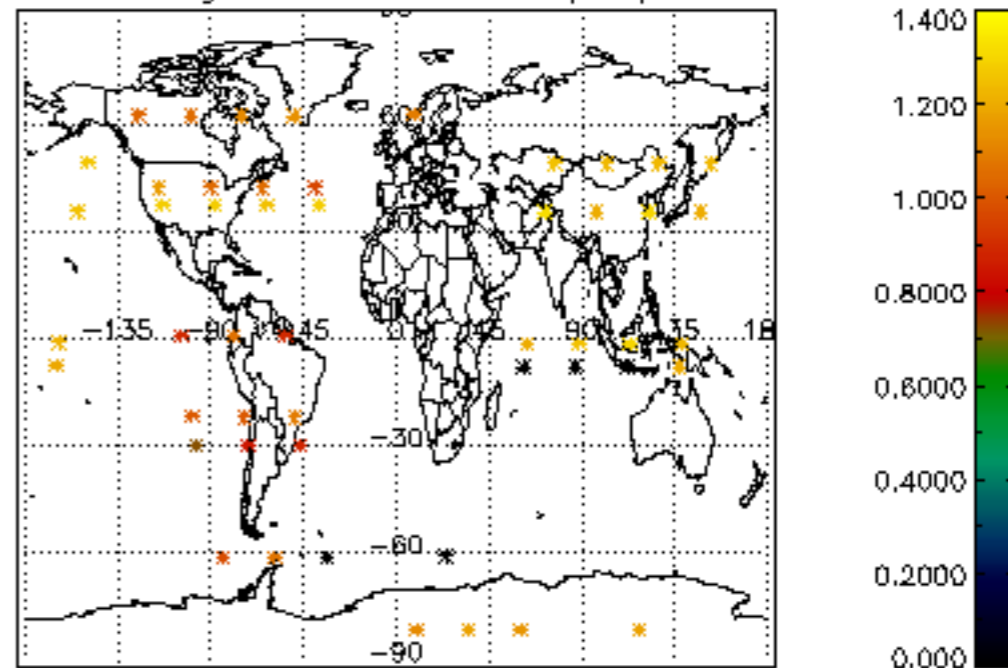




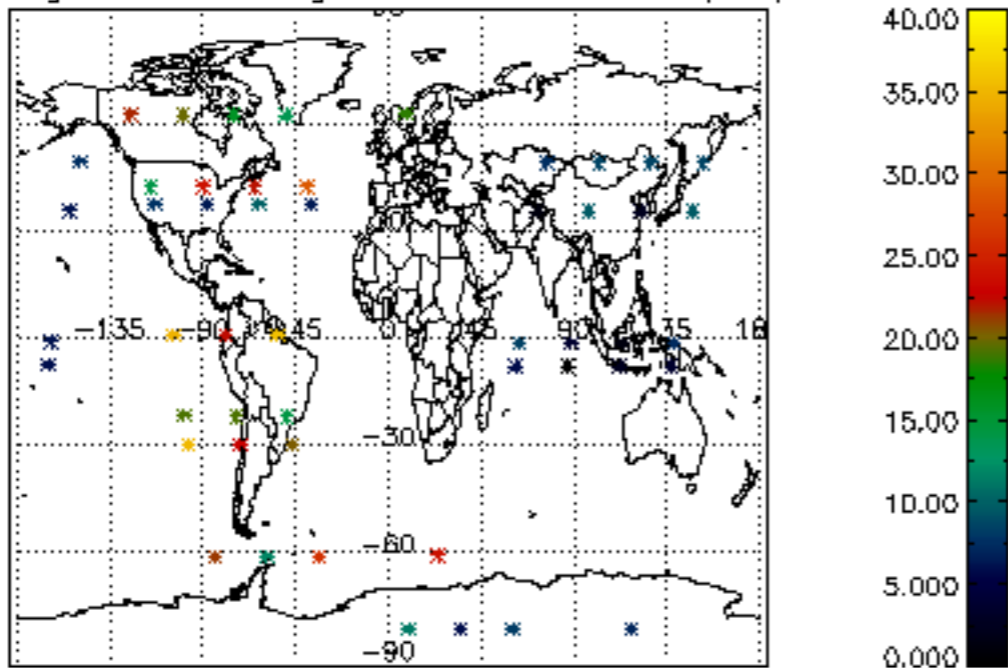
Percentage of cosmic ray hits per profile



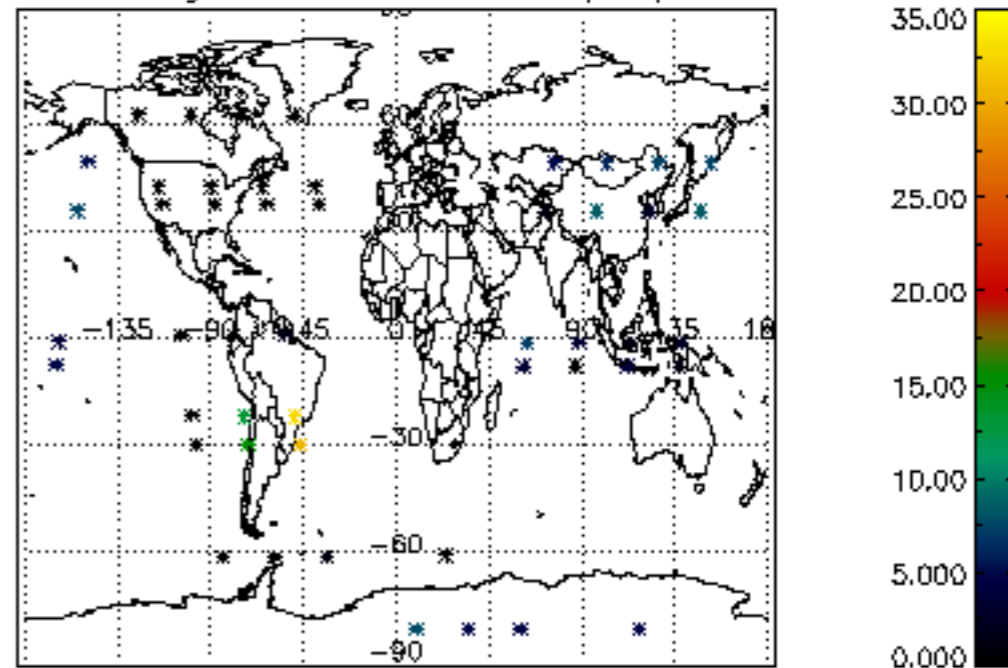
Percentage of datation errors per profile



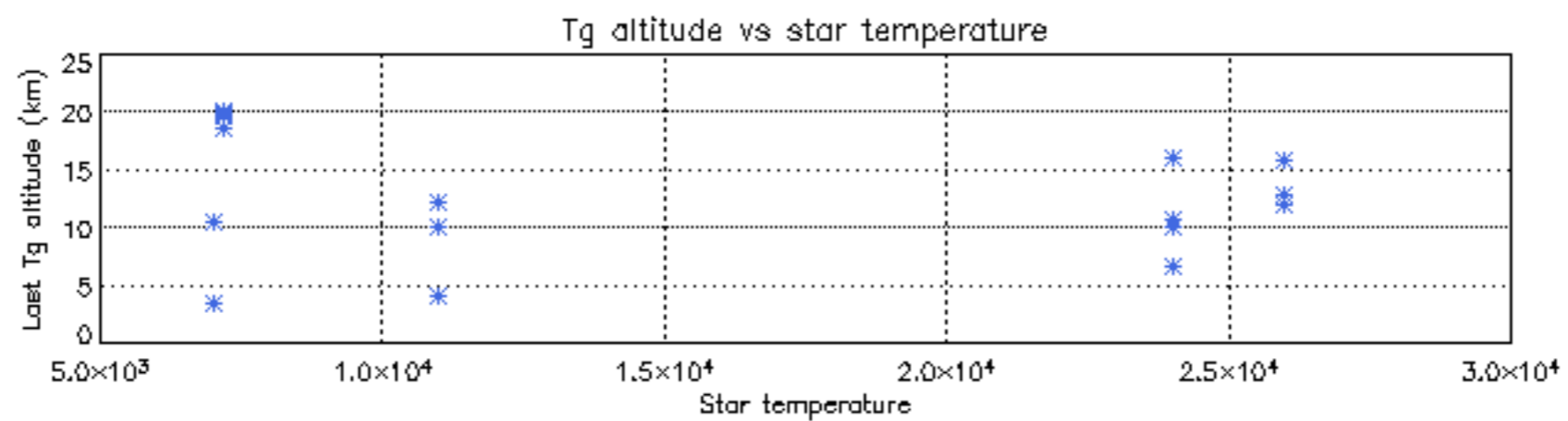
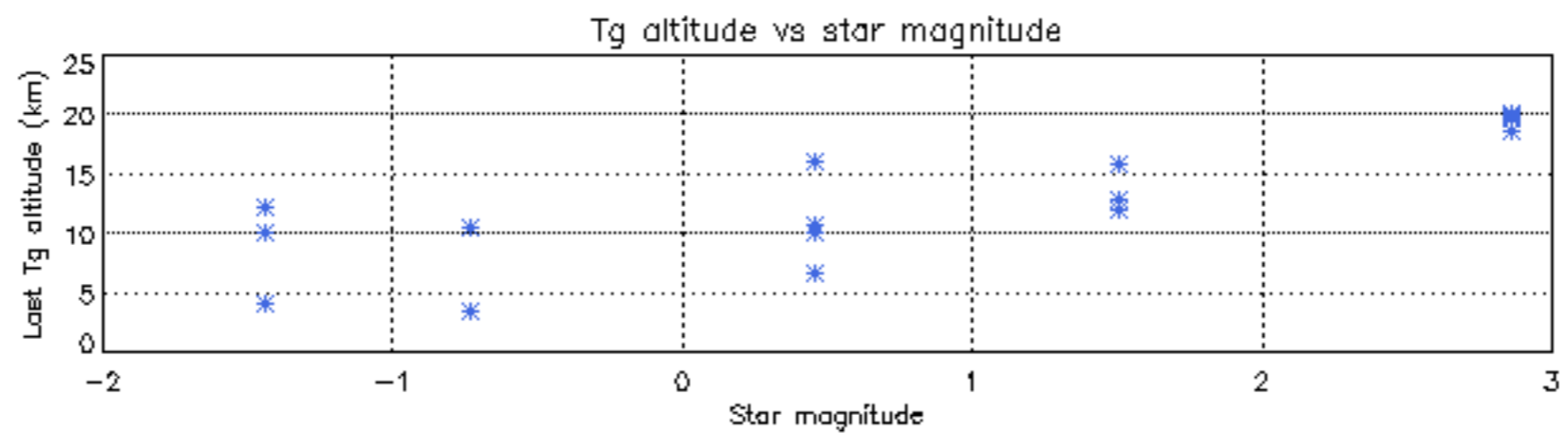
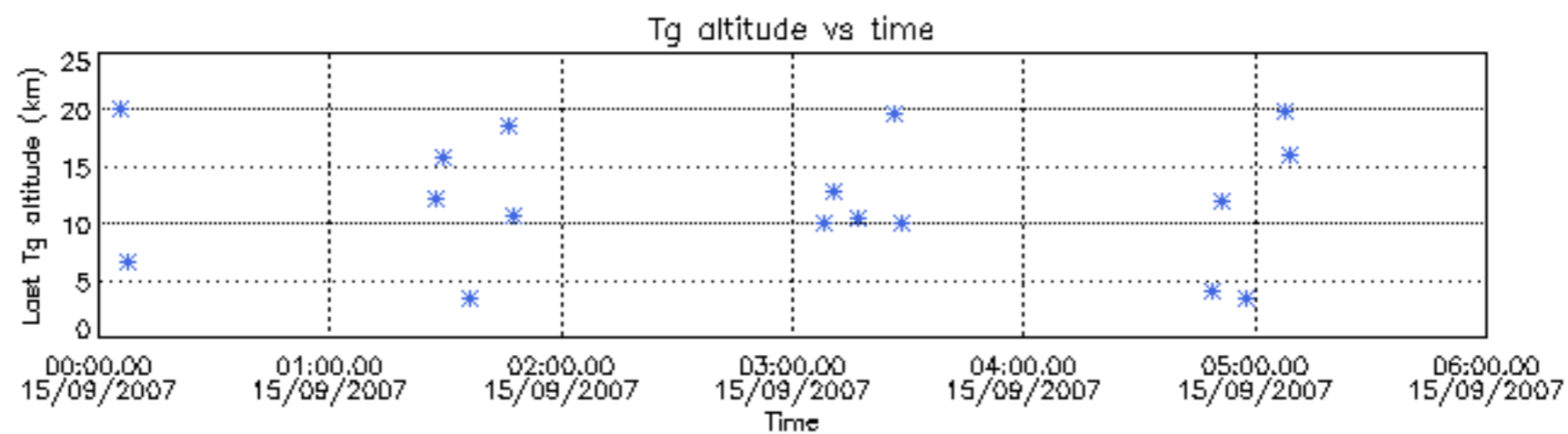
Percentage of star falling outside central band per profile



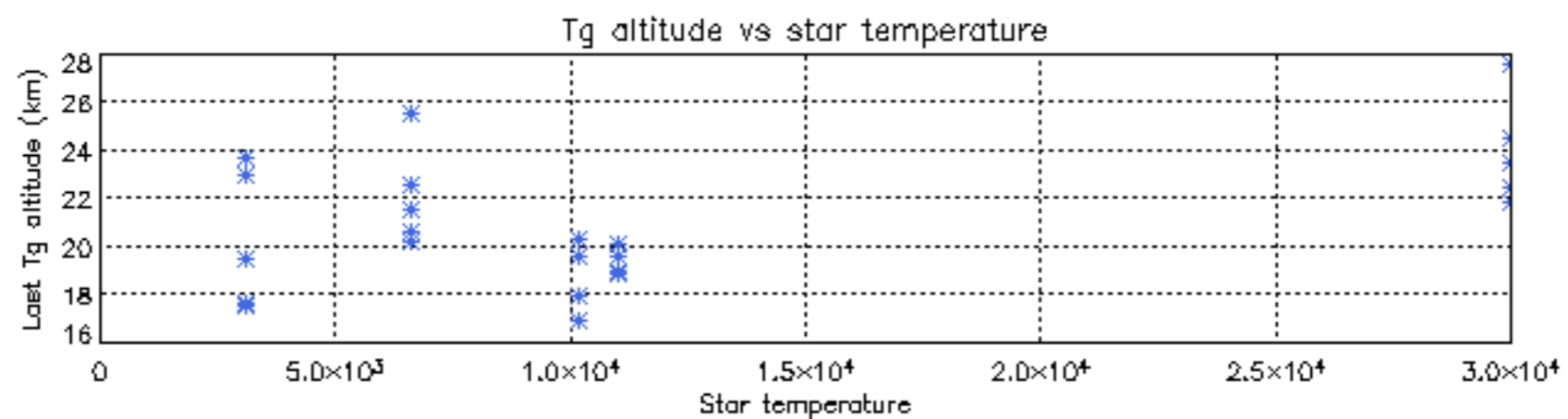
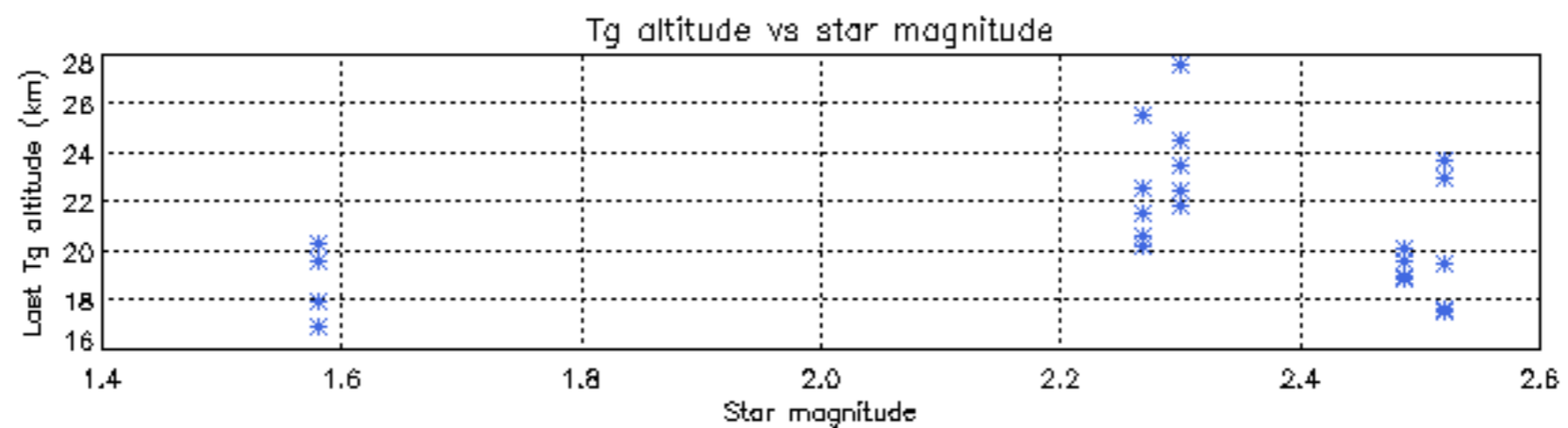
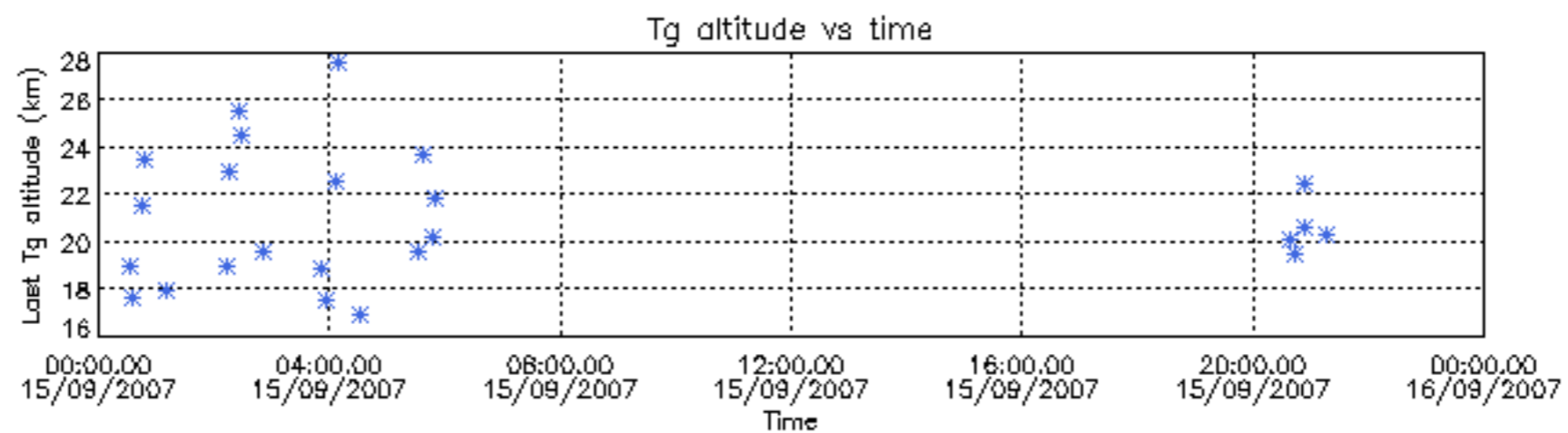
Percentage of saturation errors per profile



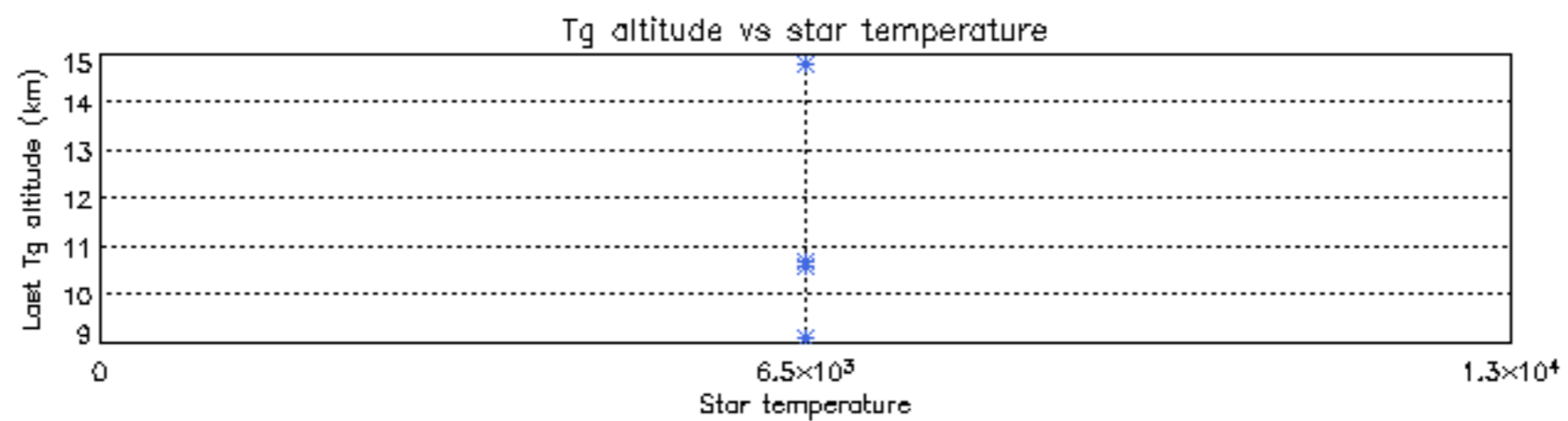
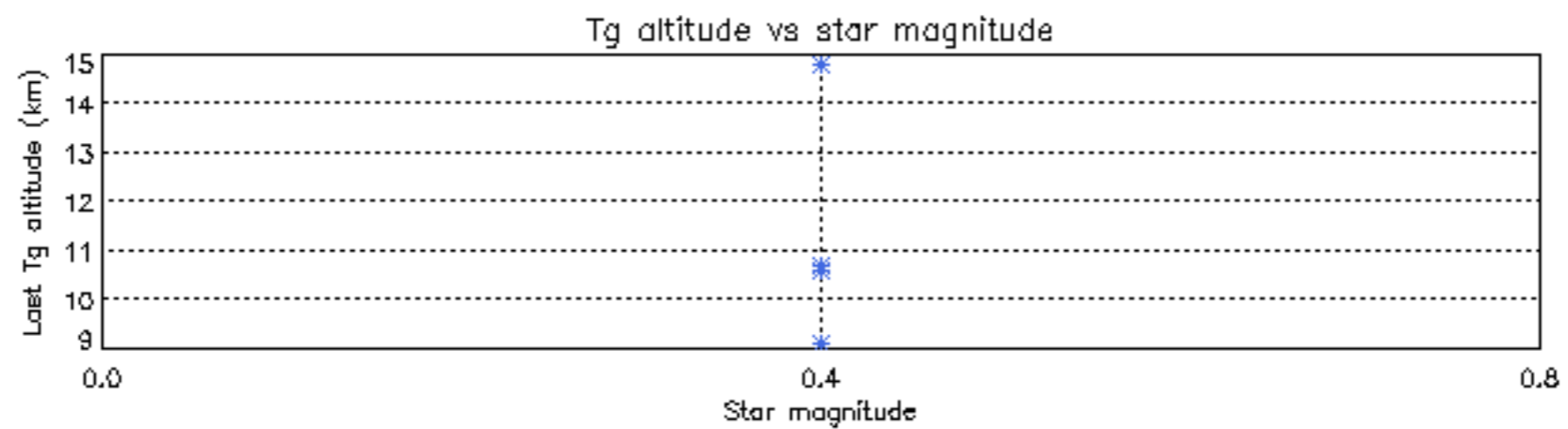
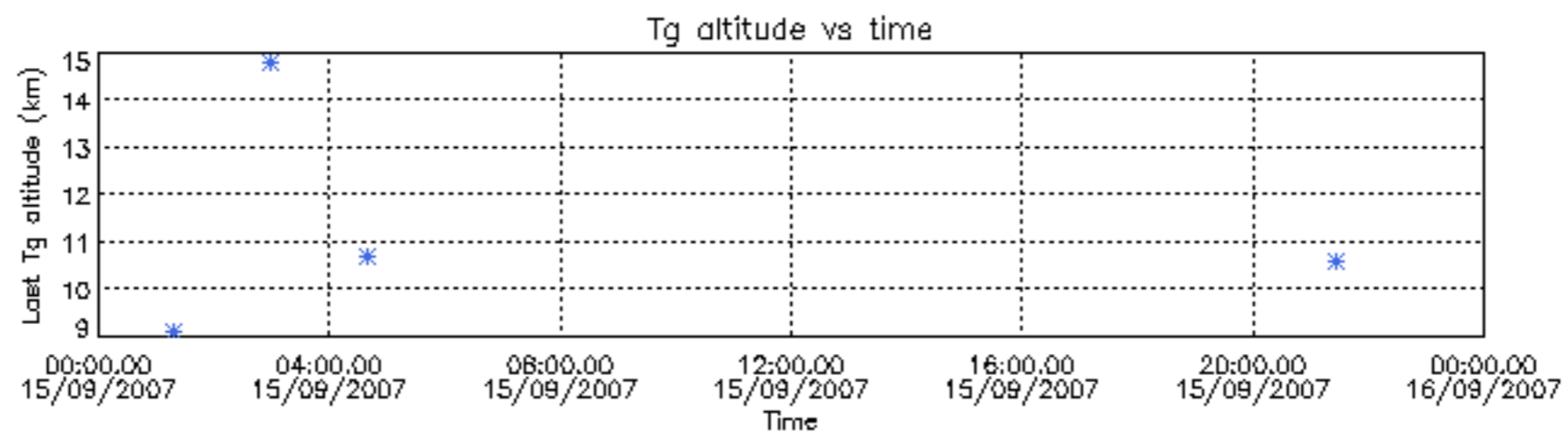
Tangent altitude at which the star is lost

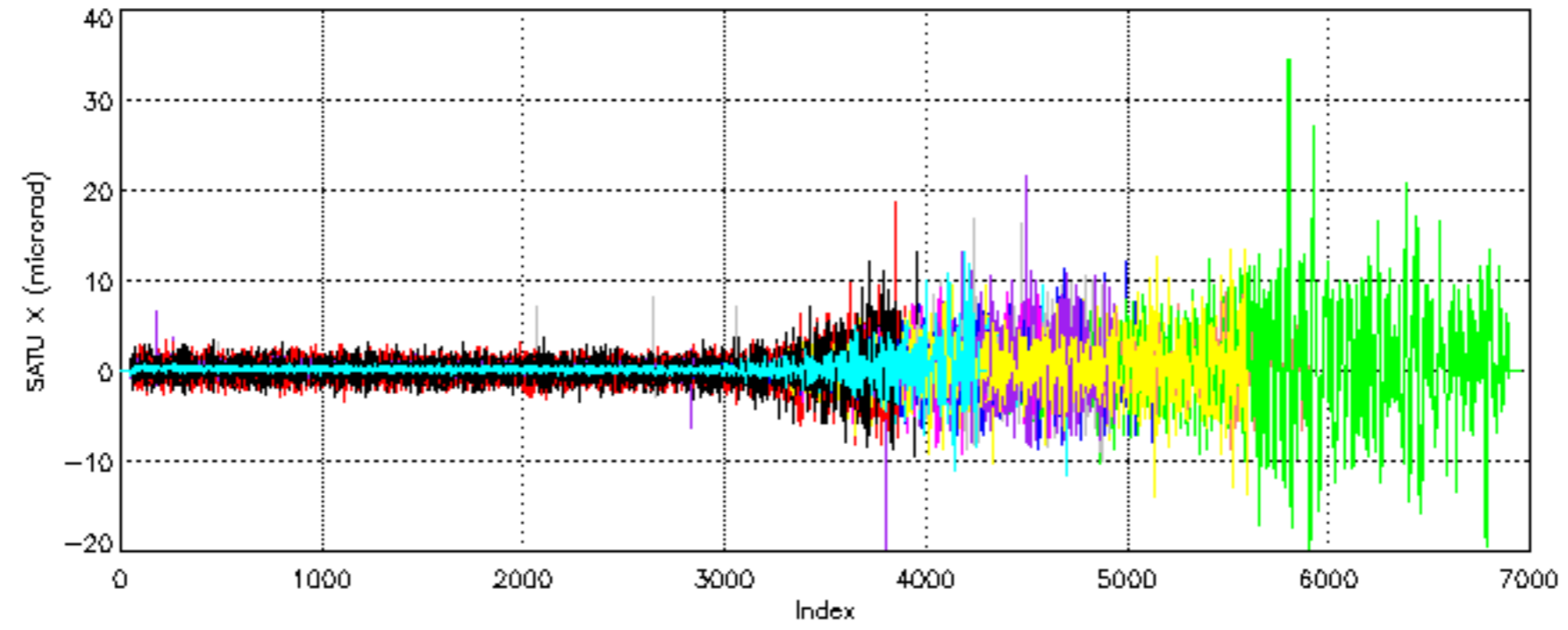


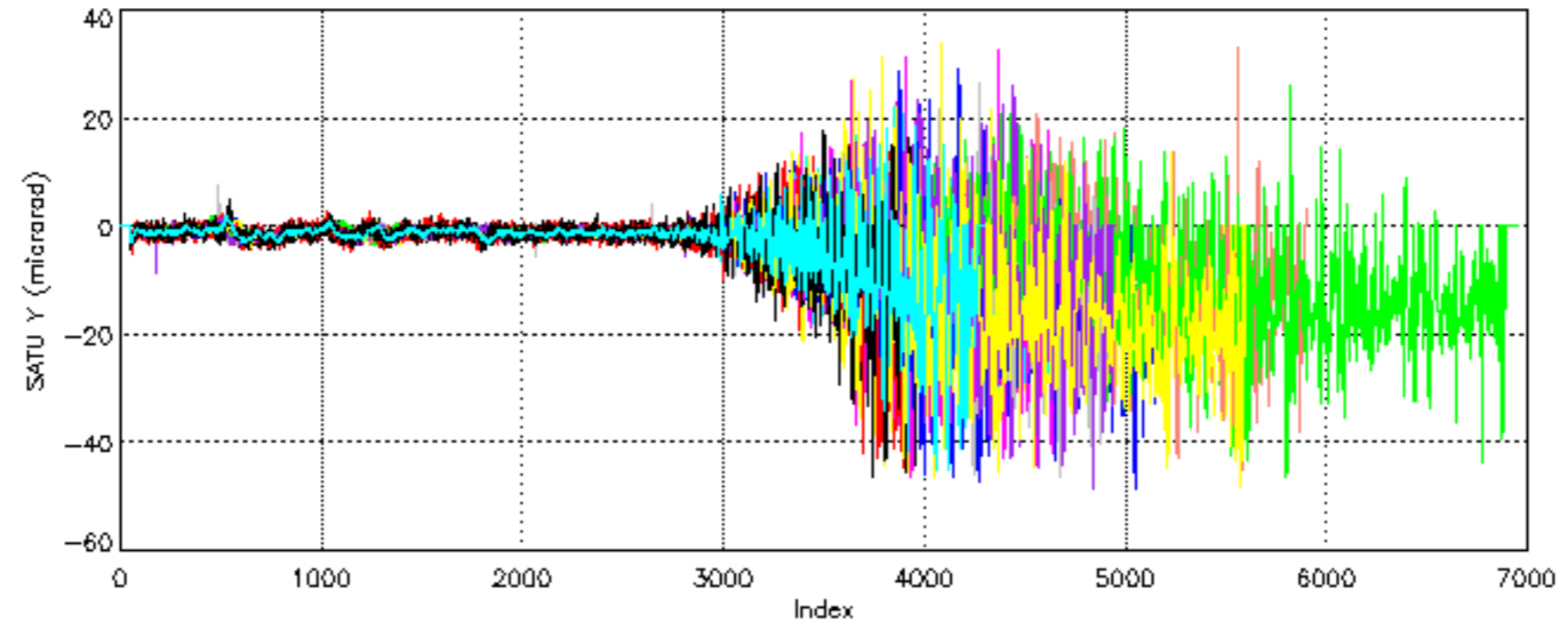
Tangent altitude at which the star is lost

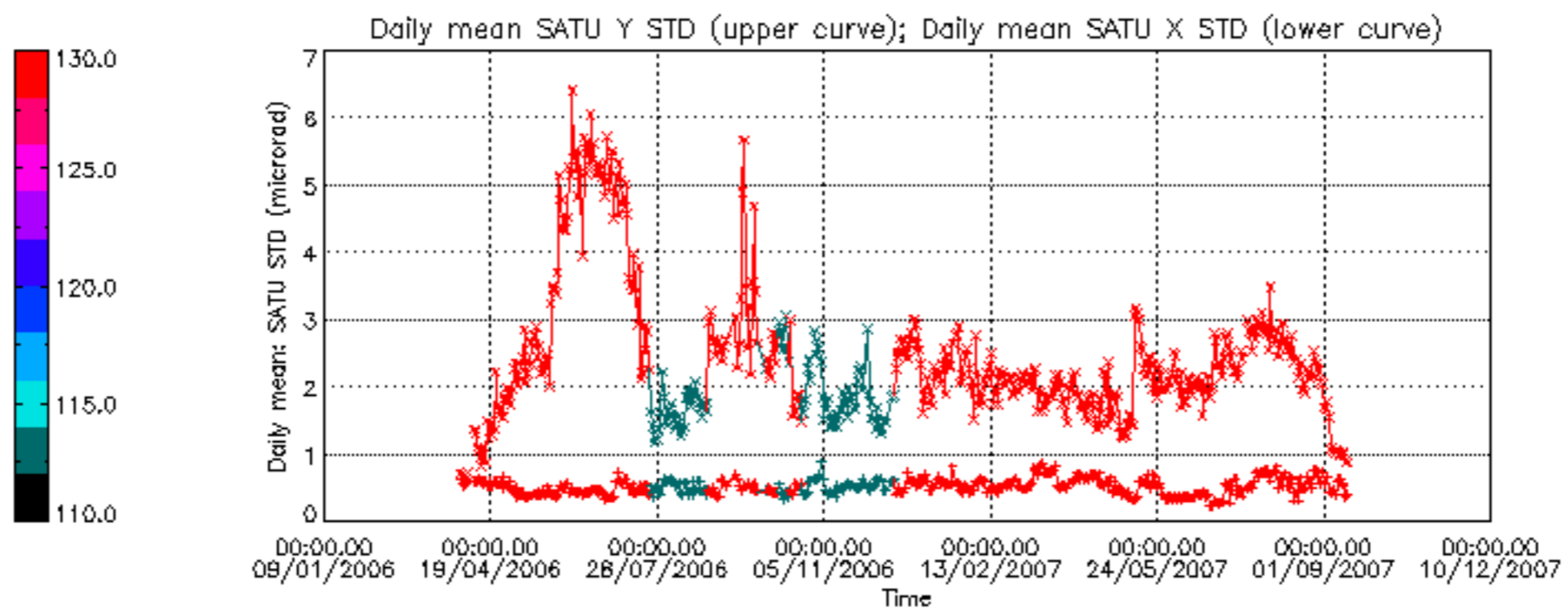


Tangent altitude at which the star is lost









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1; -666.0; 01-SEP-2007 00:23:42; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28770  
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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  
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 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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 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772  
 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  
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 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  
 5; -664.1; 01-SEP-2007 05:25:32; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28773  
 6; -498.1; 01-SEP-2007 05:28:18; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;28773  
 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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 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
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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
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797
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8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

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6; 4454.5; 02-SEP-2007 11:21:01; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28791  
7; 4615.5; 02-SEP-2007 11:23:42; Dark ; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;28791  
8; 4919.3; 02-SEP-2007 11:28:46; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;28791  
9; 5383.1; 02-SEP-2007 11:36:30; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;28791  
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11; 5650.7; 02-SEP-2007 11:40:57; Dark ; 41.0; 177; 1Zet CMA ; 3.02; 26000;occ; 82; 0;28791  
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13; 5951.1; 02-SEP-2007 11:45:58; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;28791  
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16; 7091.4; 02-SEP-2007 12:04:58; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28791  
17; 7369.6; 02-SEP-2007 12:09:36; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28791  
18; 7657.5; 02-SEP-2007 12:14:24; Dark ; 17.0; 142; 49Del Cap ; 2.85; 8900;occ; 34; 0;28791  
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11; 5651.5; 02-SEP-2007 13:21:34; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28792  
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13; 5951.5; 02-SEP-2007 13:26:34; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;28792  
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16; 7091.8; 02-SEP-2007 13:45:34; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28792  
17; 7369.8; 02-SEP-2007 13:50:12; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28792  
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3; 1622.0; 02-SEP-2007 17:16:12; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28795  
4; 1809.3; 02-SEP-2007 17:19:20; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28795  
5; 1895.6; 02-SEP-2007 17:20:46; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28795  
6; 2075.0; 02-SEP-2007 17:23:45; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28795  
7; 2974.2; 02-SEP-2007 17:38:45; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28795  
8; 3434.5; 02-SEP-2007 17:46:25; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28795  
9; 4455.0; 02-SEP-2007 18:03:25; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28795  
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13; 5653.9; 02-SEP-2007 18:23:24; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28795  
14; 5747.9; 02-SEP-2007 18:24:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28795  
15; 5953.0; 02-SEP-2007 18:28:23; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28795  
16; 6573.7; 02-SEP-2007 18:38:44; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28795  
17; 6651.7; 02-SEP-2007 18:40:02; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28795

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 3; 1622.1; 02-SEP-2007 18:56:48; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;28796  
 4; 1809.4; 02-SEP-2007 18:59:56; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28796  
 5; 1895.6; 02-SEP-2007 19:01:22; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28796  
 6; 2074.9; 02-SEP-2007 19:04:21; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28796  
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 8; 3434.4; 02-SEP-2007 19:27:01; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28796  
 9; 4455.2; 02-SEP-2007 19:44:02; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28796  
 10; 4921.0; 02-SEP-2007 19:51:47; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28796  
 11; 5386.3; 02-SEP-2007 19:59:33; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28796  
 12; 5549.9; 02-SEP-2007 20:02:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;28796  
 13; 5654.5; 02-SEP-2007 20:04:01; Dark ; 41.0; 177; 1Zet CMA ; 3.02; 26000;occ; 82; 0;28796  
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 15; 5830.4; 02-SEP-2007 20:06:57; Dark ; 46.0; 108; Alp Col ; 2.65; 15200;occ; 92; 0;28796  
 16; 5953.4; 02-SEP-2007 20:09:00; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;28796  
 17; 6574.2; 02-SEP-2007 20:19:21; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28796  
 18; 6652.3; 02-SEP-2007 20:20:39; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28796  
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 3; 1895.5; 02-SEP-2007 13:59:34; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28793  
 4; 2075.1; 02-SEP-2007 14:02:33; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;28793  
 5; 2974.4; 02-SEP-2007 14:17:33; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28793  
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 7; 4454.9; 02-SEP-2007 14:42:13; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28793  
 8; 4616.1; 02-SEP-2007 14:44:54; Dark ; 25.0; 170; 27Eps Gem ; 3.00; 9700;occ; 50; 0;28793  
 9; 4920.0; 02-SEP-2007 14:49:58; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;28793  
 10; 5384.6; 02-SEP-2007 14:57:43; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;28793  
 11; 5548.4; 02-SEP-2007 15:00:27; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28793  
 12; 5652.2; 02-SEP-2007 15:02:11; Dark ; 41.0; 177; 1Zet CMA ; 3.02; 26000;occ; 82; 0;28793  
 13; 5746.4; 02-SEP-2007 15:03:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28793  
 14; 5952.0; 02-SEP-2007 15:07:10; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;28793  
 15; 6572.6; 02-SEP-2007 15:17:31; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28793  
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 17; 7092.1; 02-SEP-2007 15:26:10; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28793  
 18; 7370.1; 02-SEP-2007 15:30:49; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;28793

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 3; 1809.2; 02-SEP-2007 15:38:44; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28794  
 4; 1895.6; 02-SEP-2007 15:40:10; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28794  
 5; 2075.0; 02-SEP-2007 15:43:09; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28794  
 6; 2974.3; 02-SEP-2007 15:58:09; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28794  
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 8; 4455.0; 02-SEP-2007 16:22:49; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28794  
 9; 4920.3; 02-SEP-2007 16:30:35; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;28794  
 10; 5385.2; 02-SEP-2007 16:38:20; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;28794  
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 6; 540.0; 03-SEP-2007 01:21:10; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28800  
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13; 1810.0; 03-SEP-2007 03:22:56; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28801  
14; 1895.6; 03-SEP-2007 03:24:21; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28801  
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8; -80.2; 03-SEP-2007 04:32:02; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;28801  
9; 541.1; 03-SEP-2007 04:42:23; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28802  
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 2; 1810.7; 03-SEP-2007 15:07:08; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28808  
 3; 1895.4; 03-SEP-2007 15:08:33; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28808  
 4; 2074.7; 03-SEP-2007 15:11:32; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28808  
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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  
 8; 4925.0; 03-SEP-2007 15:59:02; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;28808  
 9; 5394.3; 03-SEP-2007 16:06:52; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28808  
 10; 5556.5; 03-SEP-2007 16:09:34; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28808  
 11; 5647.5; 03-SEP-2007 16:11:05; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;28808  
 12; 5756.8; 03-SEP-2007 16:12:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28808  
 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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 2; 1623.8; 03-SEP-2007 16:44:37; Dark ; 47.0; 142; 49Del Cap ; 2.85; 8900;occ; 94; 0;28809  
 3; 1810.9; 03-SEP-2007 16:47:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28809  
 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  
 7; 3434.2; 03-SEP-2007 17:14:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28809  
 8; 4457.1; 03-SEP-2007 17:31:50; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28809  
 9; 4925.4; 03-SEP-2007 17:39:39; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;28809  
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 11; 5557.2; 03-SEP-2007 17:50:10; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28809  
 12; 5647.8; 03-SEP-2007 17:51:41; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;28809  
 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809  
 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28809  
 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809  
 16; 6581.5; 03-SEP-2007 18:07:15; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28809  
 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 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  
 6; 2074.7; 03-SEP-2007 18:32:44; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;28810  
 7; 2973.1; 03-SEP-2007 18:47:42; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28810  
 8; 3434.1; 03-SEP-2007 18:55:23; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28810  
 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  
 12; 5557.5; 03-SEP-2007 19:30:47; Dark ; 40.0; 23; 21Eps CMa ; 1.50; 26000;occ; 80; 0;28810  
 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  
 15; 5843.4; 03-SEP-2007 19:35:33; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;28810  
 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810  
 17; 6581.7; 03-SEP-2007 19:47:51; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28810  
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 4; -275.7; 04-SEP-2007 00:35:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28813  
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 6; -74.6; 04-SEP-2007 00:39:18; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28813  
 7; 547.4; 04-SEP-2007 00:49:40; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28814  
 8; 626.3; 04-SEP-2007 00:50:59; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;28814  
 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814  
 10; 1339.5; 04-SEP-2007 01:02:52; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28814

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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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2; -1841.4; 04-SEP-2007 05:11:39; Bright; 83.0; 149; 45Eps Per ; 2.89; 30000;occ; 166; 0;28816  
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  
8; 3533.2; 04-SEP-2007 06:41:14; Bright; 88.0; 73; 57Gam1And ; 2.26; 13100;occ; 176; 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  
5; 4187.8; 04-SEP-2007 21:57:32; Bright; 84.0; 149; 45Eps Per ; 2.89; 30000;occ; 168; 0;28826  
6; 4639.2; 04-SEP-2007 22:05:03; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28826  
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3; 1015.9; 04-SEP-2007 22:45:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28827  
4; 3142.0; 04-SEP-2007 23:20:42; Bright; 85.5; 53; 43Bet And ; 2.05; 3300;occ; 171; 0;28827  
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  
4; 3139.9; 05-SEP-2007 01:01:16; Bright; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;28828  
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  
8; 4641.1; 05-SEP-2007 01:26:17; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 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  
4; -674.4; 04-SEP-2007 07:11:42; Dark ; 178.5; 13; 87Alp Tau ; 0.87; 3800;occ; 357; 0;28817  
5; 464.0; 04-SEP-2007 07:30:41; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28818  
6; 994.2; 04-SEP-2007 07:39:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28818  
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3; -2280.4; 04-SEP-2007 08:25:32; Bright; 169.0; 173; 4Bet Tri ; 3.00; 8900;occ; 338; 0;28818  
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  
6; -669.3; 04-SEP-2007 08:52:23; Dark ; 226.5; 13; 87Alp Tau ; 0.87; 3800;occ; 453; 0;28818

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7; 468.8; 04-SEP-2007 09:11:21; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28819
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3;-2283.6; 04-SEP-2007 10:06:05; Bright; 164.0; 173; 4Bet Tri ; 3.00; 8900;occ; 328; 0;28819
4;-1843.2; 04-SEP-2007 10:13:25; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28819
5;-1402.1; 04-SEP-2007 10:20:46; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28819
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7; 473.6; 04-SEP-2007 10:52:02; Dark ; 224.0; 165; 34Gam Eri ; 2.95; 3200;occ; 448; 0;28820
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5;-1401.4; 04-SEP-2007 12:01:23; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28820
6; -659.0; 04-SEP-2007 12:13:45; Dark ; 255.0; 13; 87Alp Tau ; 0.87; 3800;occ; 510; 0;28820
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 6; 3889.6; 23-SEP-2007 08:30:35; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;29090
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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
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 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
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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
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 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
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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
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 3; 2981.3; 23-SEP-2007 13:17:15; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;29093
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 3; 2104.2; 23-SEP-2007 14:43:14; Bright; 36.0; 61; 8Eps Peg ; 2.10; 3900;occ; 72; 0;29094  
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 7; 3890.3; 23-SEP-2007 15:13:00; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;29094  
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 14; 5998.4; 23-SEP-2007 15:48:08; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;29094  
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 16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094  
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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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