

# GOMOS Daily Report 28-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	01OCT2007 13:42:48
Data source version	GOMOS/5.00
Start time of products	28-09-2007 (28SEP2007 00:00:00)
Stop time of products	29-09-2007 (29SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

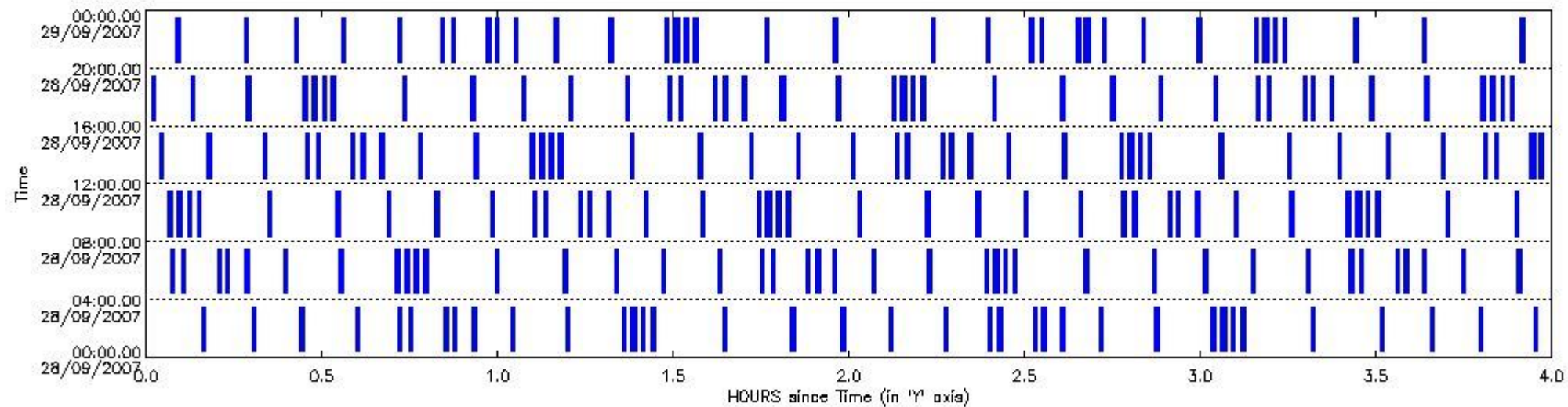
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

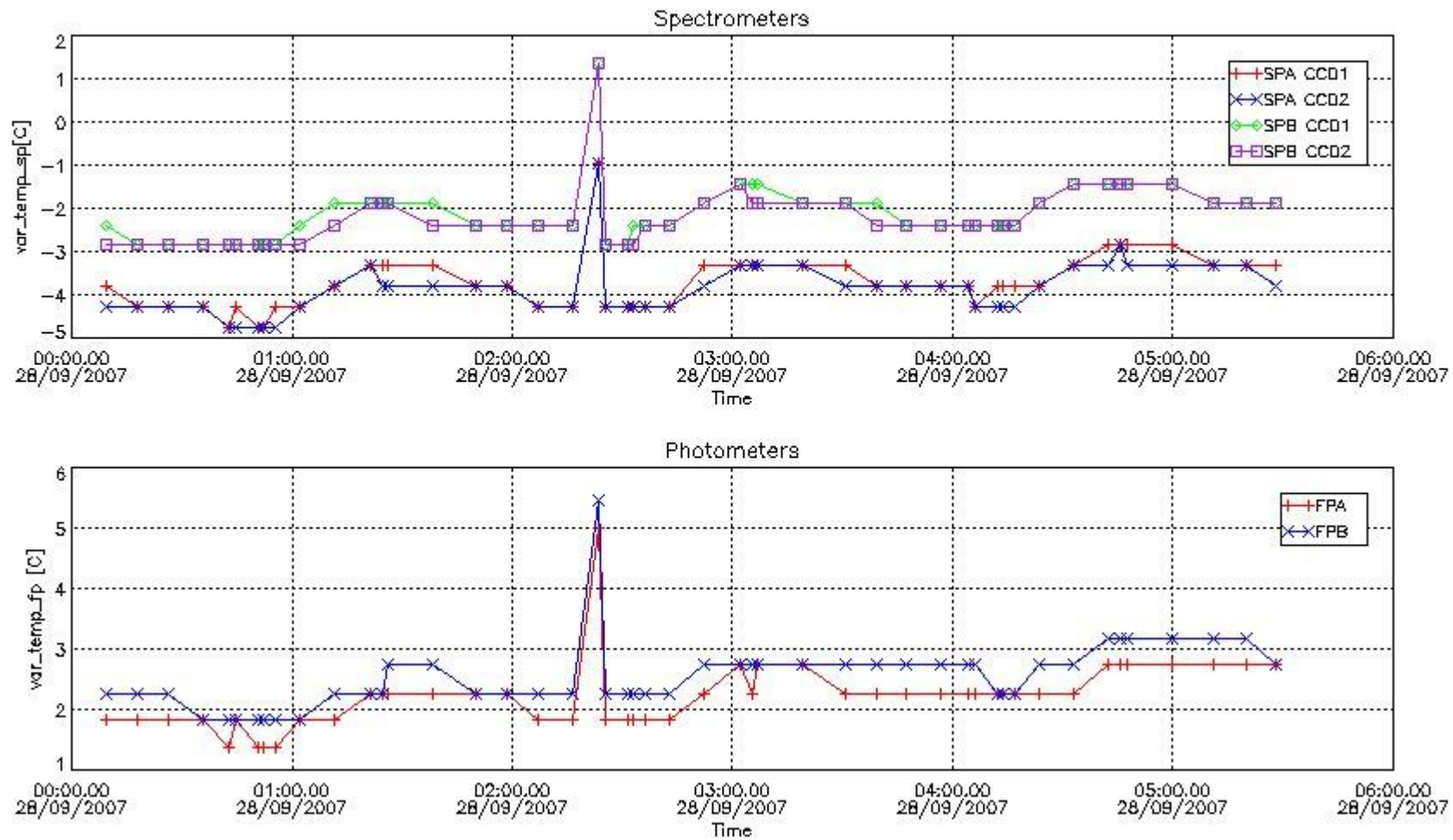
No missing products.

### 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_1PNPDE20070928_000925_000000442062_00045_29157_0952.N1	28-SEP-2007 00:09:25	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	29157	No
2	GOM_TRA_1PNPDE20070928_001805_000000382062_00045_29157_0953.N1	28-SEP-2007 00:18:05	Bright	38.000	162	34Alp Agr	2.9440	5350.0	76	29157	No
3	GOM_TRA_1PNPDE20070928_002615_000000362062_00045_29157_0954.N1	28-SEP-2007 00:26:15	Bright	35.500	164	44Eta Peg	2.9480	5400.0	71	29157	No
4	GOM_TRA_1PNPDE20070928_003543_000000362062_00045_29157_0955.N1	28-SEP-2007 00:35:43	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	29157	No
5	GOM_TRA_1PNPDE20070928_004302_000000362062_00045_29157_0956.N1	28-SEP-2007 00:43:02	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29157	No
6	GOM_TRA_1PNPDE20070928_004450_000000352062_00045_29157_0957.N1	28-SEP-2007 00:44:50	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	29157	No
7	GOM_TRA_1PNPDE20070928_005052_000000372062_00045_29157_0958.N1	28-SEP-2007 00:50:52	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29157	No
8	GOM_TRA_1PNPDE20070928_005221_000000322062_00045_29157_0959.N1	28-SEP-2007 00:52:21	Bright	32.000	82	48Bet UMa	2.3650	10600.0	64	29157	No
9	GOM_TRA_1PNPDE20070928_005532_000000522062_00045_29157_0960.N1	28-SEP-2007 00:55:32	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29157	No
10	GOM_TRA_1PNPDE20070928_010211_000000332062_00045_29157_0961.N1	28-SEP-2007 01:02:11	Bright	33.000	166	17Eps Leo	2.9800	6000.0	66	29157	No
11	GOM_TRA_1PNPDE20070928_011136_000000442062_00045_29157_1064.N1	28-SEP-2007 01:11:36	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29157	No
12	GOM_TRA_1PNPDE20070928_012117_000000432062_00045_29157_1065.N1	28-SEP-2007 01:21:17	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29157	No

13	GOM_TRA_1PNPDE20070928_012435_000000382062_00045_29157_1066.N1	28-SEP-2007 01:24:35	Dark	37.500	46	Del Vel	1.9540	10600.	75	29157	No
14	GOM_TRA_1PNPDE20070928_012610_000000462062_00045_29157_1067.N1	28-SEP-2007 01:26:10	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29157	No
15	GOM_TRA_1PNPDE20070928_013821_000000392062_00046_29158_1068.N1	28-SEP-2007 01:38:21	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29158	No
16	GOM_TRA_1PNPDE20070928_015001_000000432062_00046_29158_1069.N1	28-SEP-2007 01:50:01	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	29158	No
17	GOM_TRA_1PNPDE20070928_015841_000000372062_00046_29158_1070.N1	28-SEP-2007 01:58:41	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	29158	No
18	GOM_TRA_1PNPDE20070928_020651_000000362062_00046_29158_1071.N1	28-SEP-2007 02:06:51	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29158	No
19	GOM_TRA_1PNPDE20070928_021619_000000362062_00046_29158_1072.N1	28-SEP-2007 02:16:19	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29158	No
20	GOM_TRA_1PNPDE20070928_022338_000000362062_00046_29158_1238.N1	28-SEP-2007 02:23:38	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29158	Yes
21	GOM_TRA_1PNPDE20070928_022526_000000382062_00046_29158_1239.N1	28-SEP-2007 02:25:26	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	29158	No
22	GOM_TRA_1PNPDE20070928_023128_000000362062_00046_29158_1240.N1	28-SEP-2007 02:31:28	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29158	No
23	GOM_TRA_1PNPDE20070928_023258_000000502062_00046_29158_1241.N1	28-SEP-2007 02:32:58	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	29158	No
24	GOM_TRA_1PNPDE20070928_023608_000000522062_00046_29158_1242.N1	28-SEP-2007 02:36:08	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29158	No
25	GOM_TRA_1PNPDE20070928_024247_000000392062_00046_29158_1243.N1	28-SEP-2007 02:42:47	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	29158	No
26	GOM_TRA_1PNPDE20070928_025212_000000432062_00046_29158_1244.N1	28-SEP-2007 02:52:12	Twilight	43.000	48	30Alp Hya	1.9770	4100.0	86	29158	No
27	GOM_TRA_1PNPDE20070928_030153_000000432062_00046_29158_1245.N1	28-SEP-2007 03:01:53	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29158	No
28	GOM_TRA_1PNPDE20070928_030511_000000402062_00046_29158_1246.N1	28-SEP-2007 03:05:11	Dark	40.000	46	Del Vel	1.9540	10600.	80	29158	No
29	GOM_TRA_1PNPDE20070928_030646_000000482062_00046_29158_1247.N1	28-SEP-2007 03:06:46	Dark	47.500	41	Eps Car	1.8600	4100.0	95	29158	No
30	GOM_TRA_1PNPDE20070928_031858_000000382062_00047_29159_1248.N1	28-SEP-2007 03:18:58	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29159	No
31	GOM_TRA_1PNPDE20070928_033037_000000432062_00047_29159_1249.N1	28-SEP-2007 03:30:37	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	29159	No
32	GOM_TRA_1PNPDE20070928_033918_000000382062_00047_29159_1250.N1	28-SEP-2007 03:39:18	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	29159	No
33	GOM_TRA_1PNPDE20070928_034728_000000372062_00047_29159_1251.N1	28-SEP-2007 03:47:28	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	29159	No
34	GOM_TRA_1PNPDE20070928_035656_000000342062_00047_29159_1252.N1	28-SEP-2007 03:56:56	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	29159	No
35	GOM_TRA_1PNPDE20070928_040414_000000362062_00047_29159_1253.N1	28-SEP-2007 04:04:14	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29159	No
36	GOM_TRA_1PNPDE20070928_040603_000000372062_00047_29159_1345.N1	28-SEP-2007 04:06:03	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29159	No
37	GOM_TRA_1PNPDE20070928_041205_000000352062_00047_29159_1346.N1	28-SEP-2007 04:12:05	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	29159	No
38	GOM_TRA_1PNPDE20070928_041334_000000342062_00047_29159_1347.N1	28-SEP-2007 04:13:34	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	29159	No
39	GOM_TRA_1PNPDE20070928_041645_000000522062_00047_29159_1348.N1	28-SEP-2007 04:16:45	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29159	No
40	GOM_TRA_1PNPDE20070928_042324_000000352062_00047_29159_1349.N1	28-SEP-2007 04:23:24	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	29159	No
41	GOM_TRA_1PNPDE20070928_043249_000000452062_00047_29159_1350.N1	28-SEP-2007 04:32:49	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29159	No
42	GOM_TRA_1PNPDE20070928_044230_000000422062_00047_29159_1351.N1	28-SEP-2007 04:42:30	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29159	No
43	GOM_TRA_1PNPDE20070928_044548_000000392062_00047_29159_1352.N1	28-SEP-2007 04:45:48	Dark	38.500	46	Del Vel	1.9540	10600.	77	29159	No
44	GOM_TRA_1PNPDE20070928_044723_000000422062_00047_29159_1353.N1	28-SEP-2007 04:47:23	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29159	No
45	GOM_TRA_1PNPDE20070928_045934_000000392062_00048_29160_1354.N1	28-SEP-2007 04:59:34	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29160	No
46	GOM_TRA_1PNPDE20070928_051114_000000412062_00048_29160_1355.N1	28-SEP-2007 05:11:14	Straylight	40.500	18	24Alp PsA	1.1660	9700.0	81	29160	No
47	GOM_TRA_1PNPDE20070928_051954_000000372062_00048_29160_1356.N1	28-SEP-2007 05:19:54	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	29160	No
48	GOM_TRA_1PNPDE20070928_052804_000000362062_00048_29160_1357.N1	28-SEP-2007 05:28:04	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29160	No

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



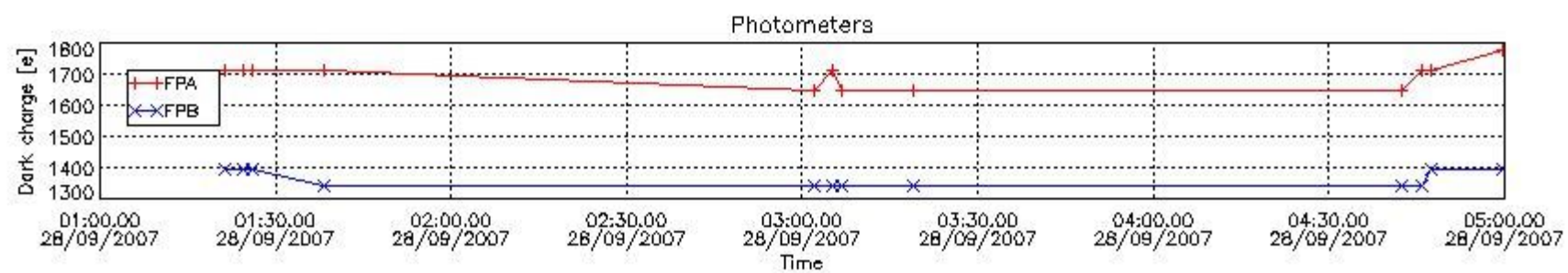
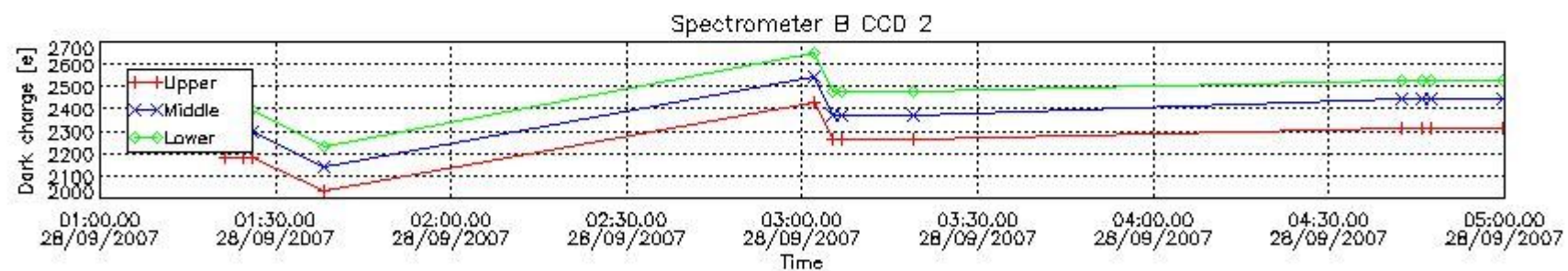
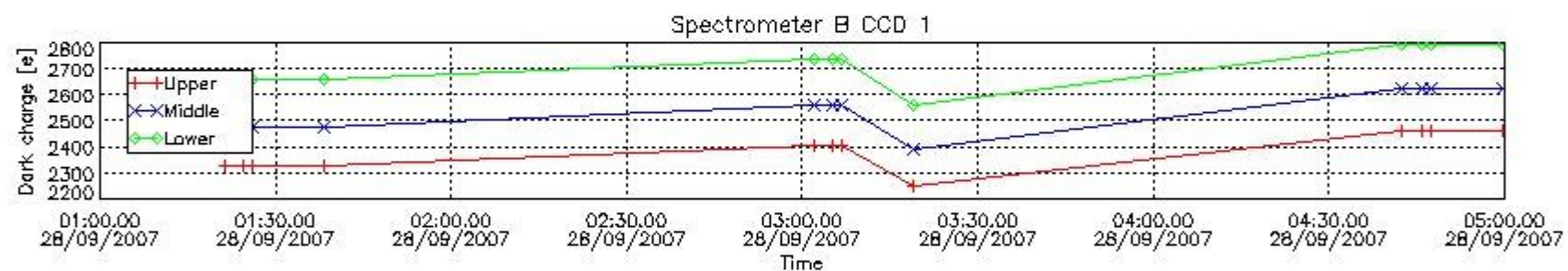
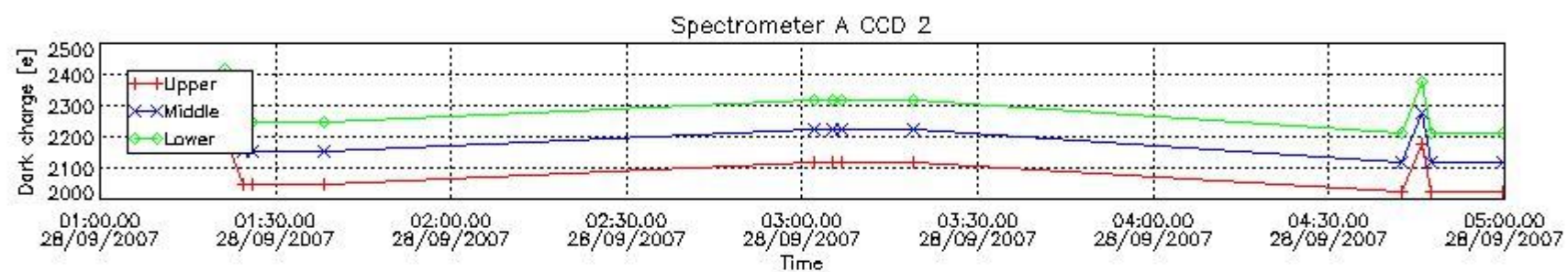
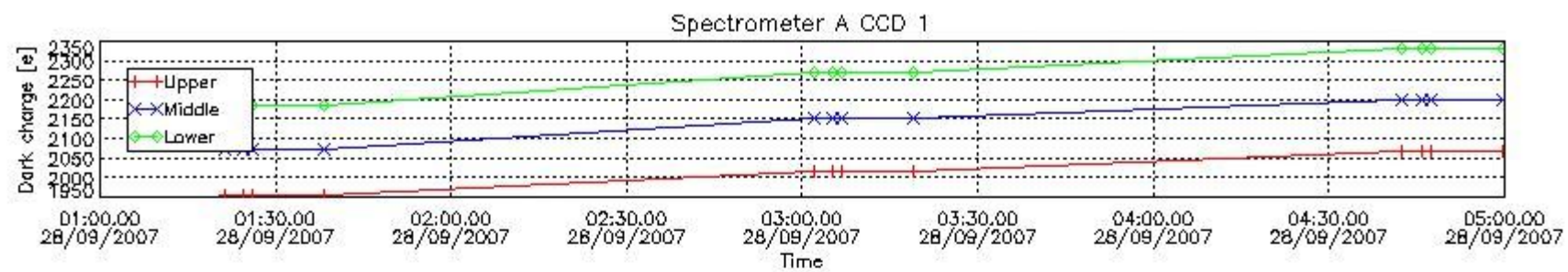
#### 4. Overview of dark signal processing per product

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



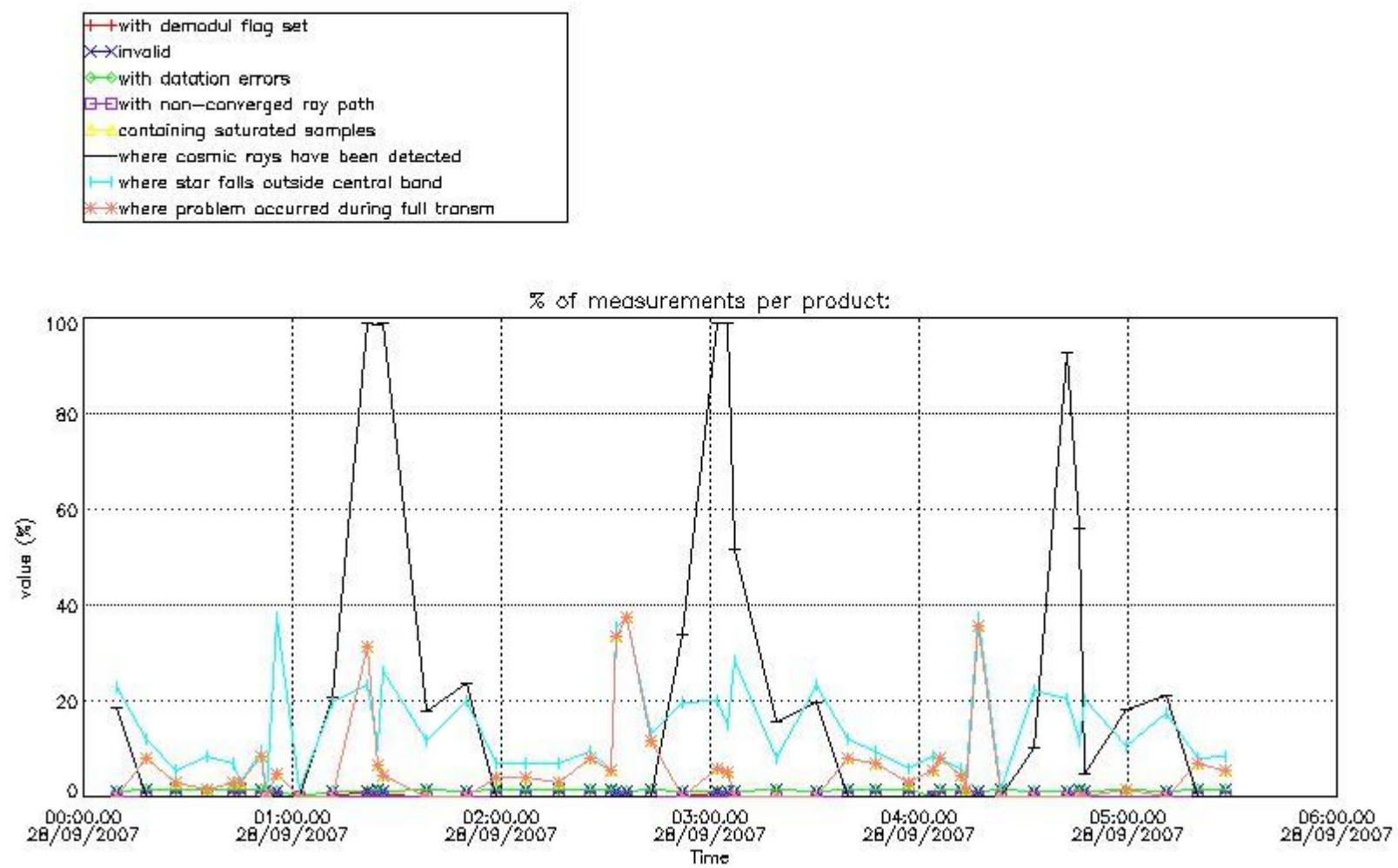
## 5. Demodulation flag and quality information monitoring

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.

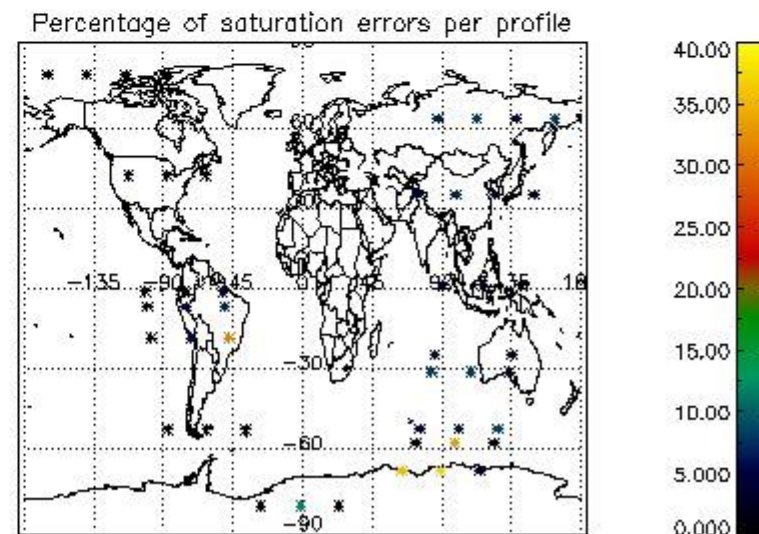
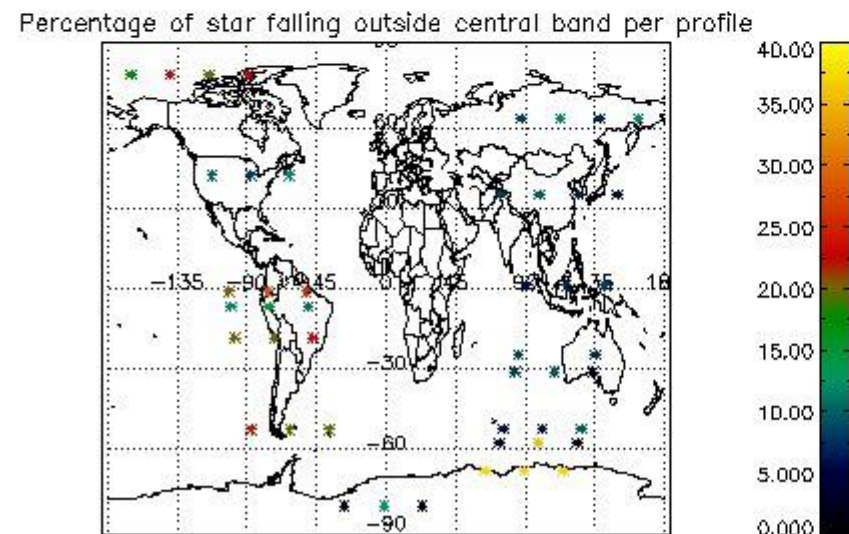
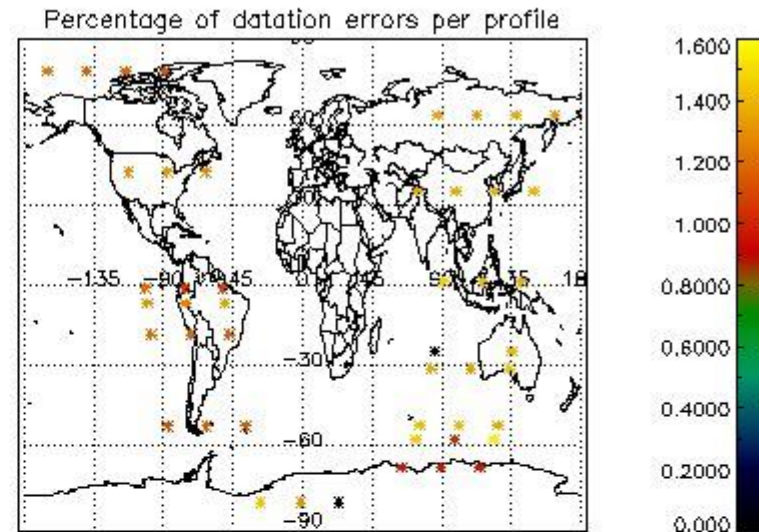
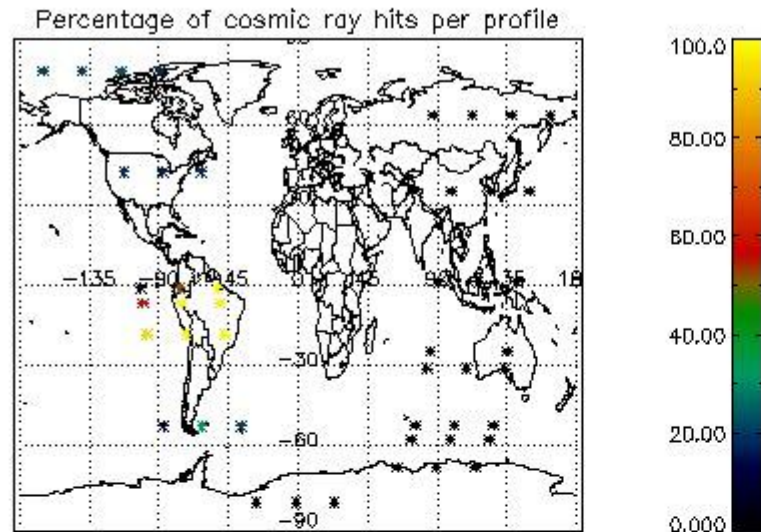
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.0213 %
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)



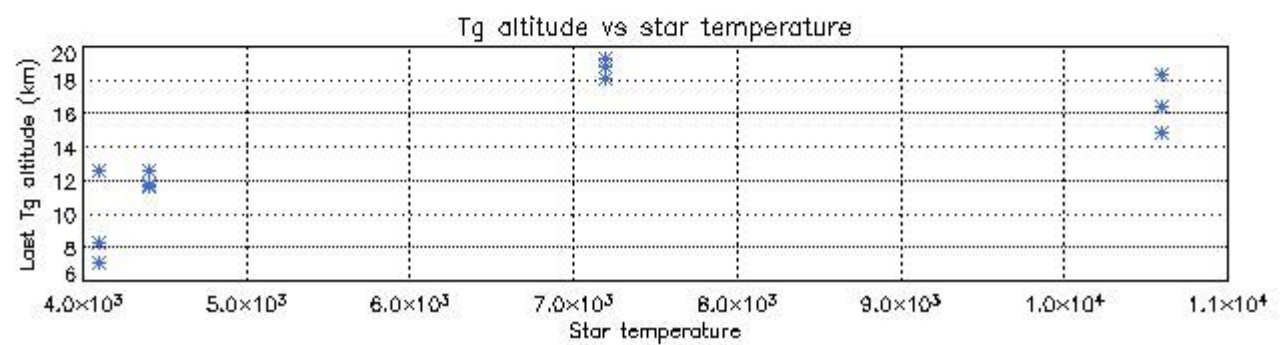
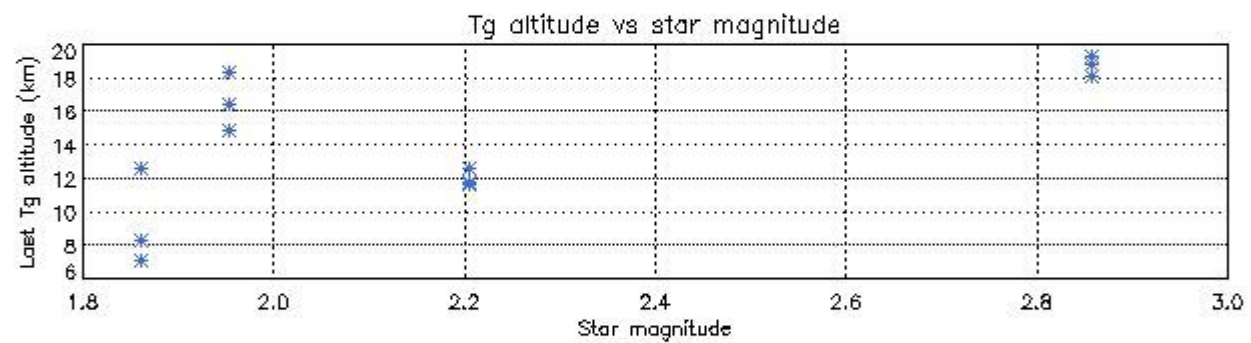
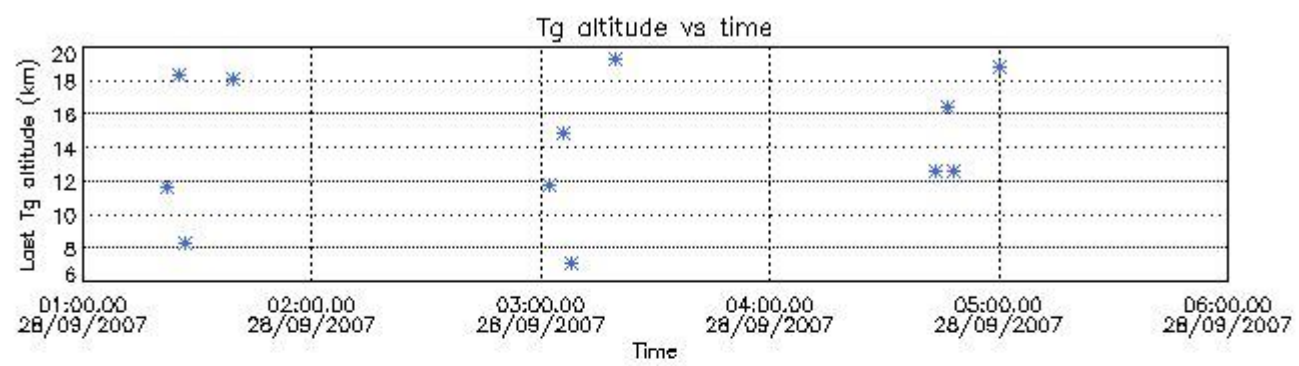
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.143	18.145	11.205
St. deviation:	4.1492	6.4857	0.84143
Maximum:	19.327	27.892	11.867
Minimum:	7.0537	3.5388	10.258
Number of data:	12.000	28.000	3.0000

### 6.2 Plot for DARK limb products

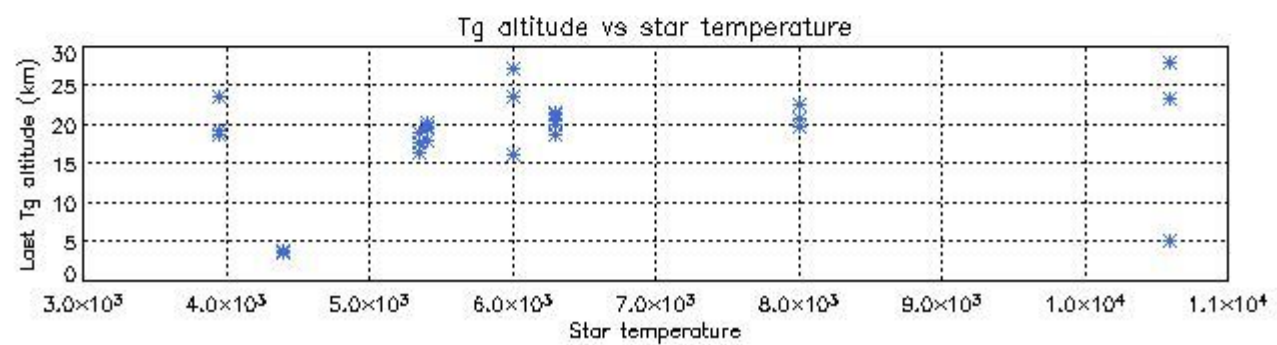
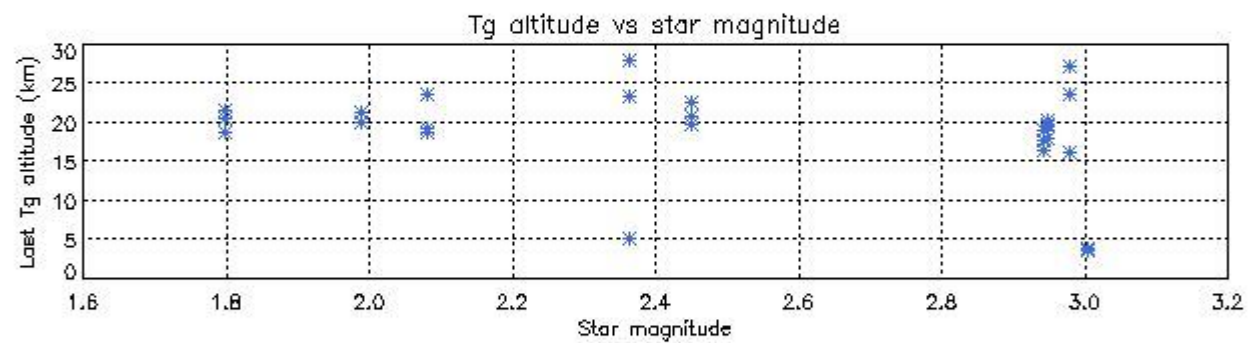
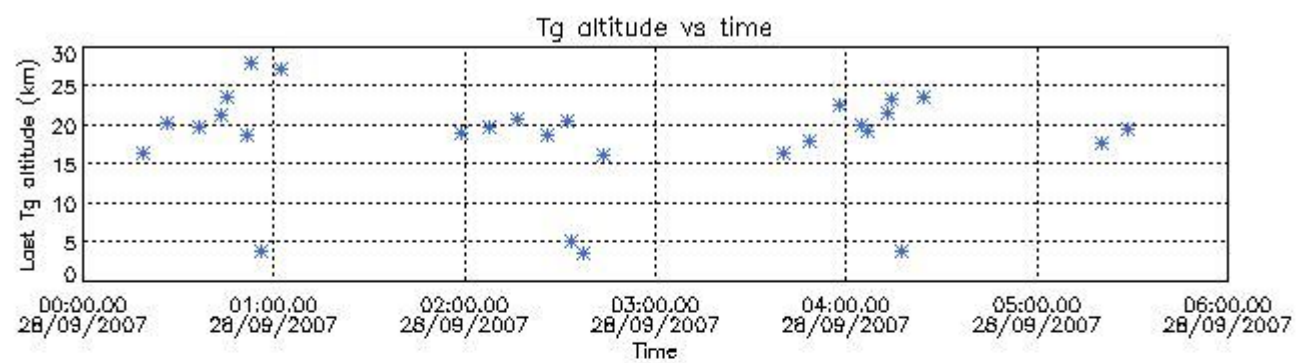
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

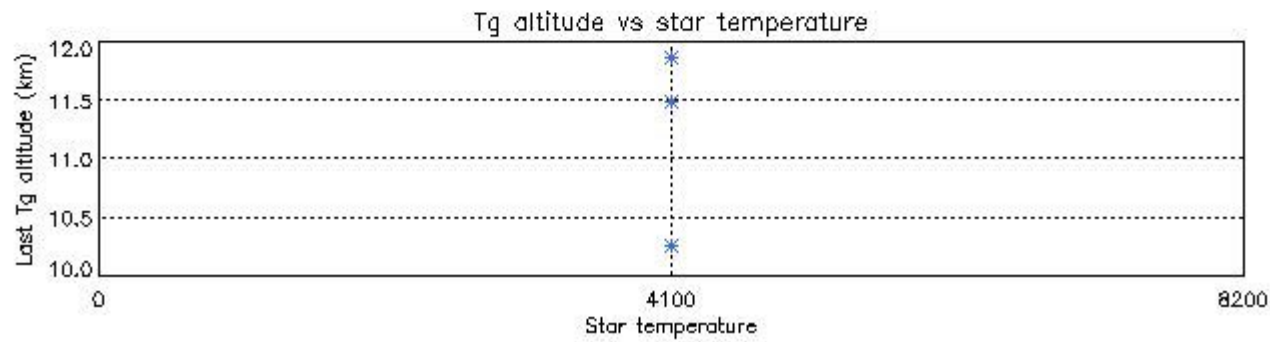
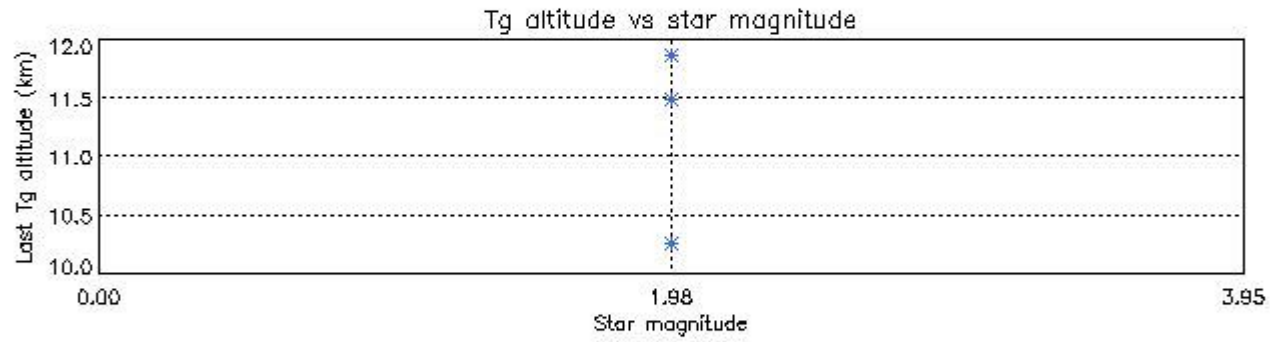
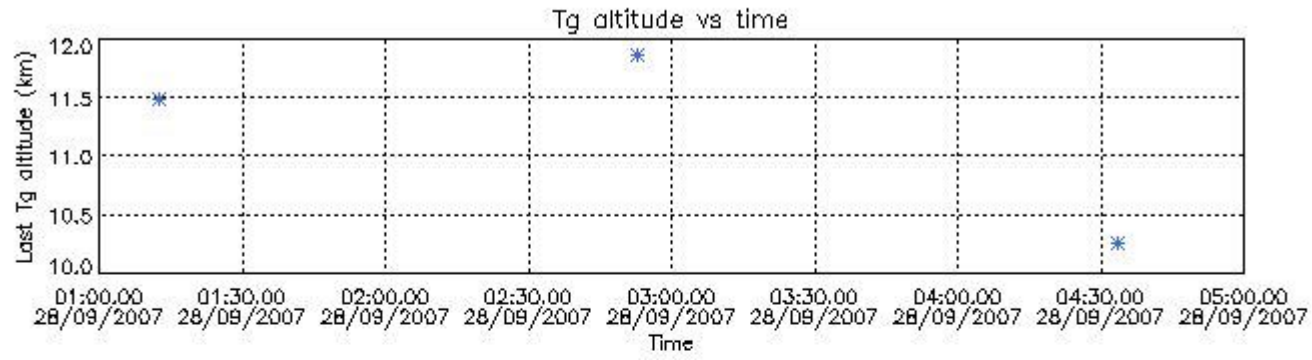


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

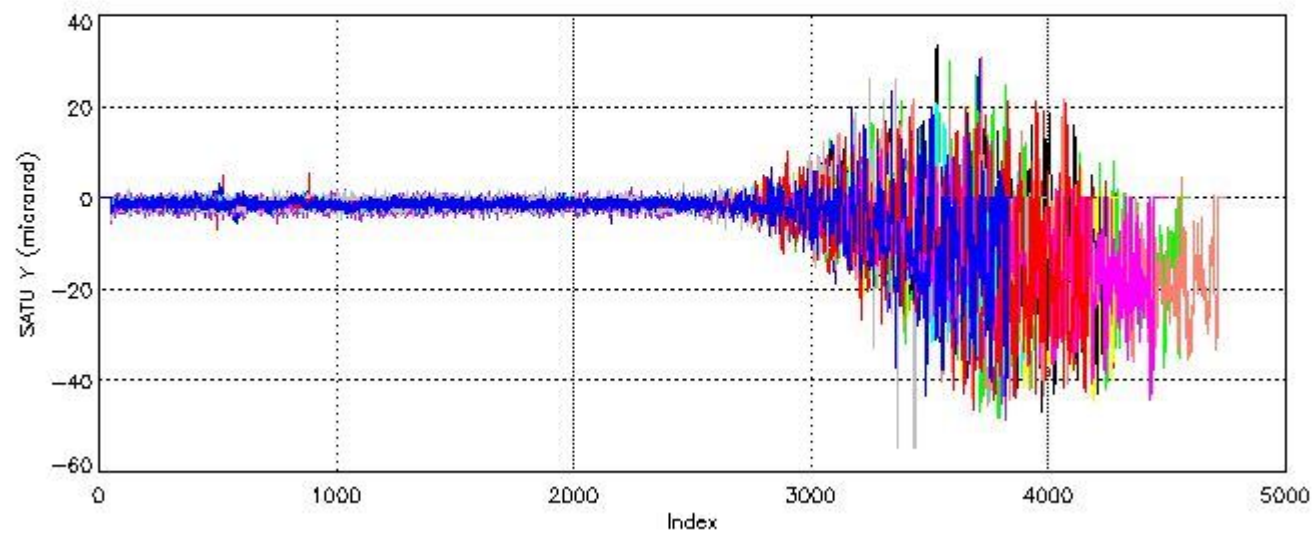
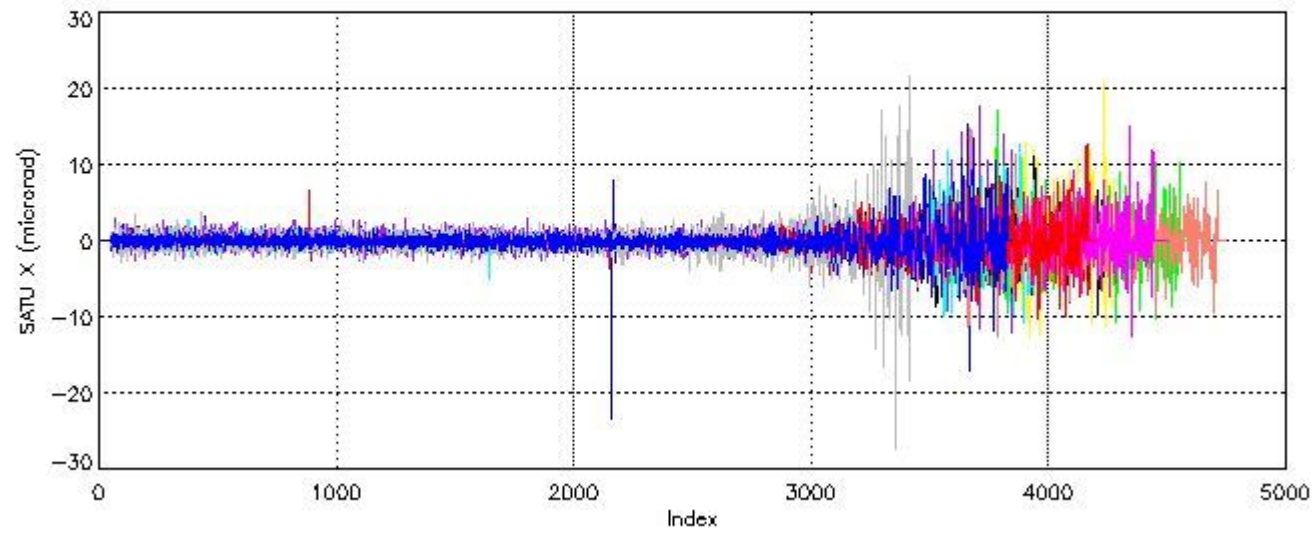


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.031431	-1.3485	-0.092406	-1.3266
St. deviation:	0.45281	0.79902	0.72595	0.98380
Maximum:	3.2000	4.7000	3.7000	3.2000
Minimum:	-2.9000	-6.8000	-3.8000	-5.5000

Number of data:	10200.	10200.	22150.	22150.
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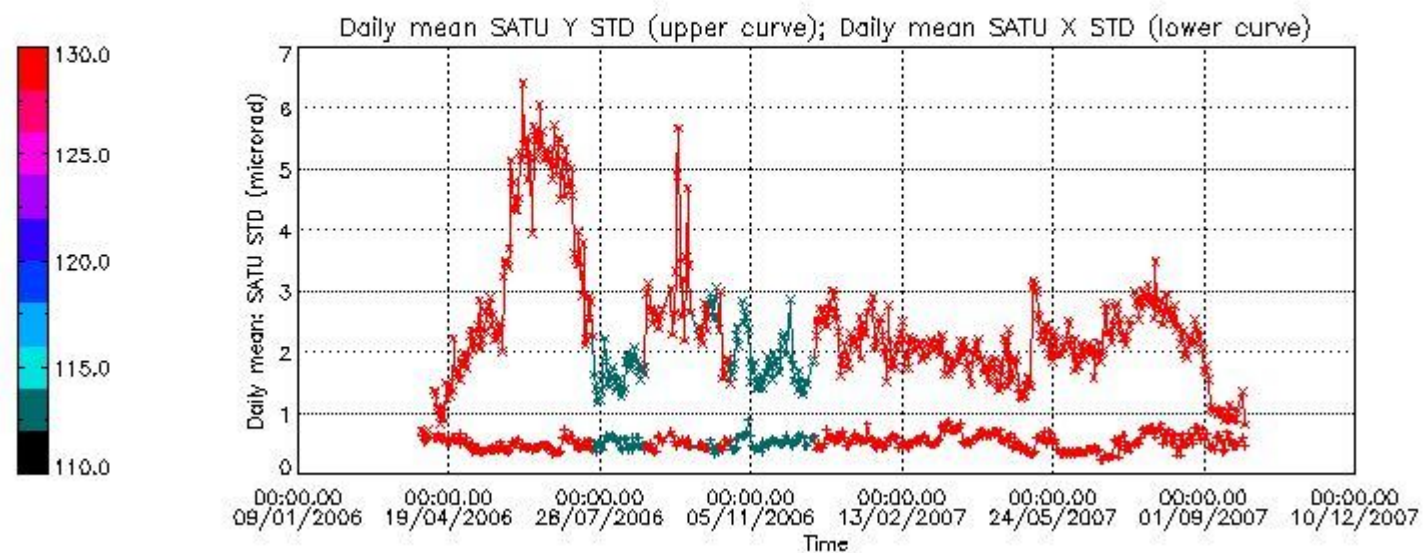
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

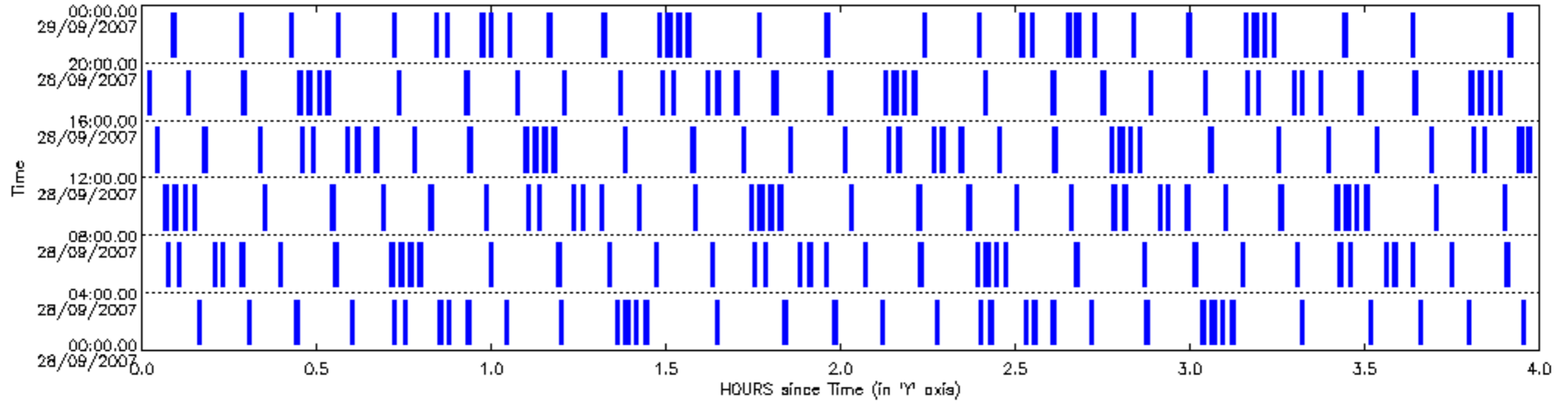
Lower curve: STD of SATU X axis

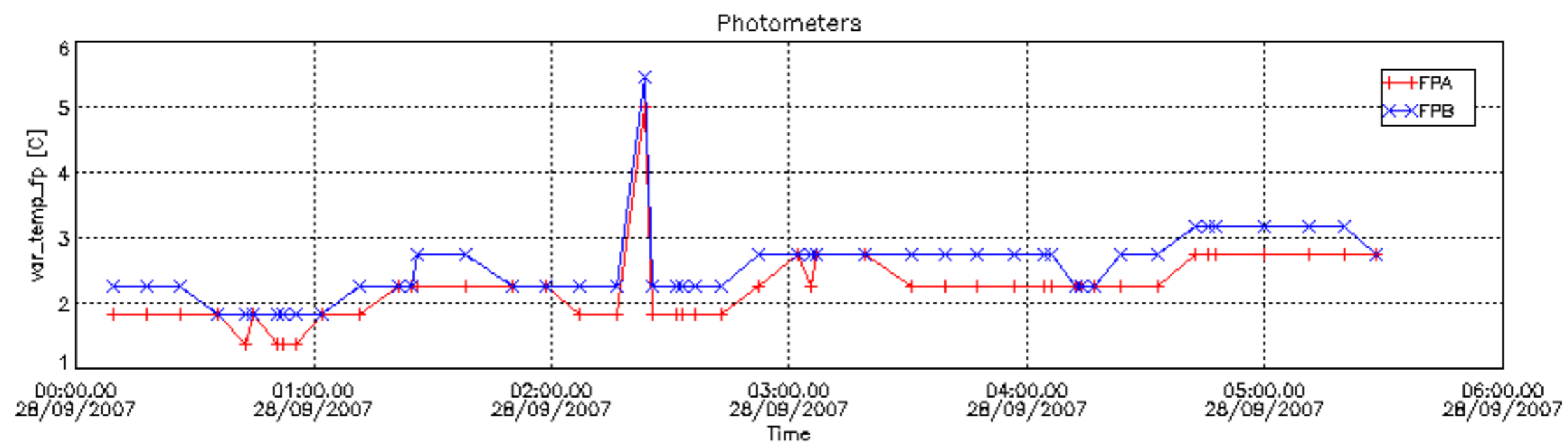
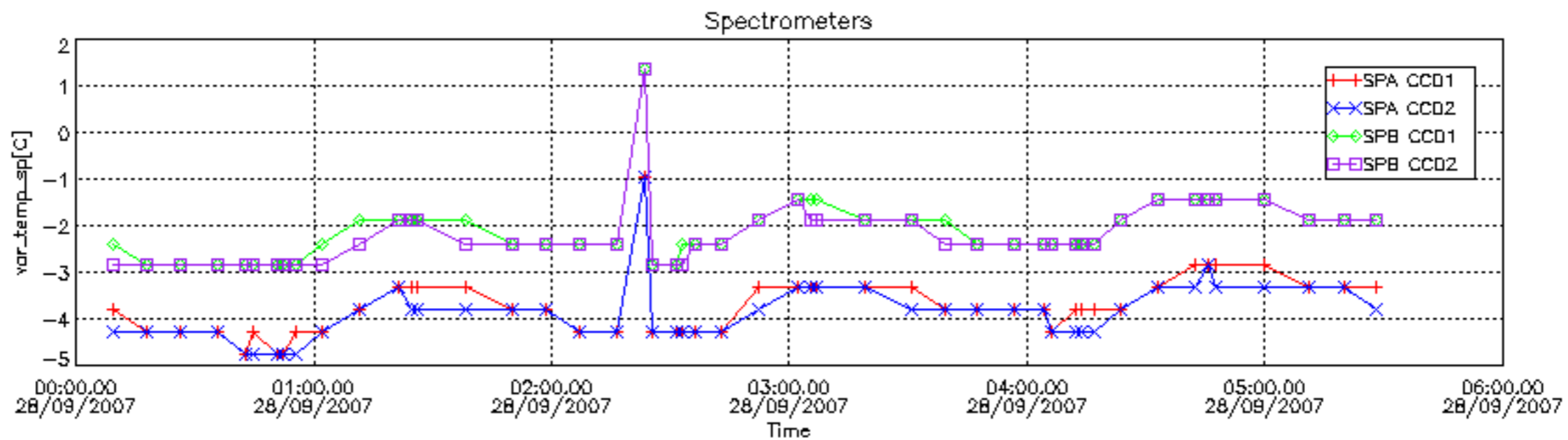


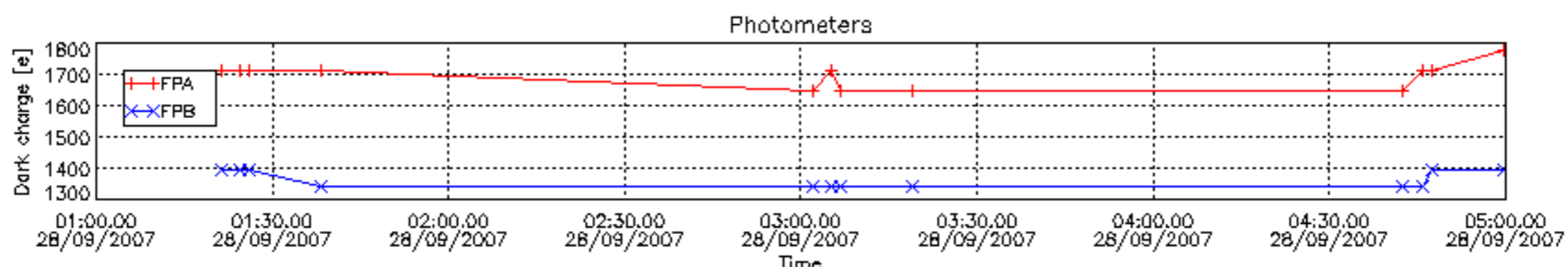
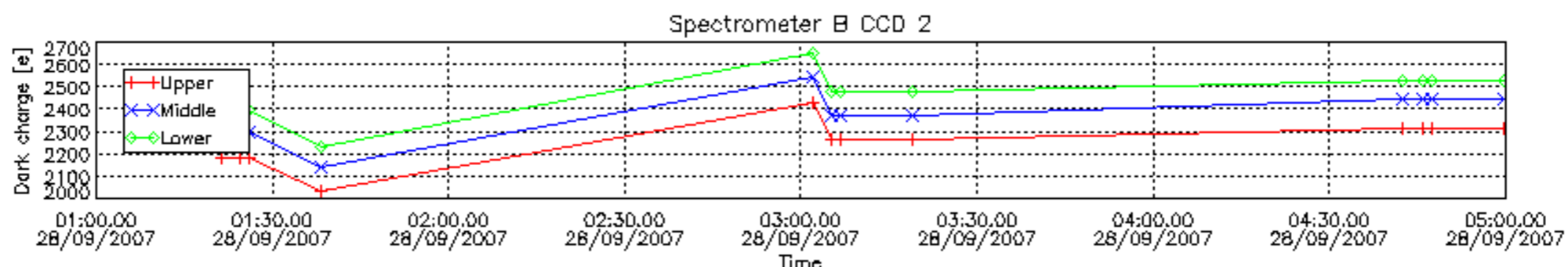
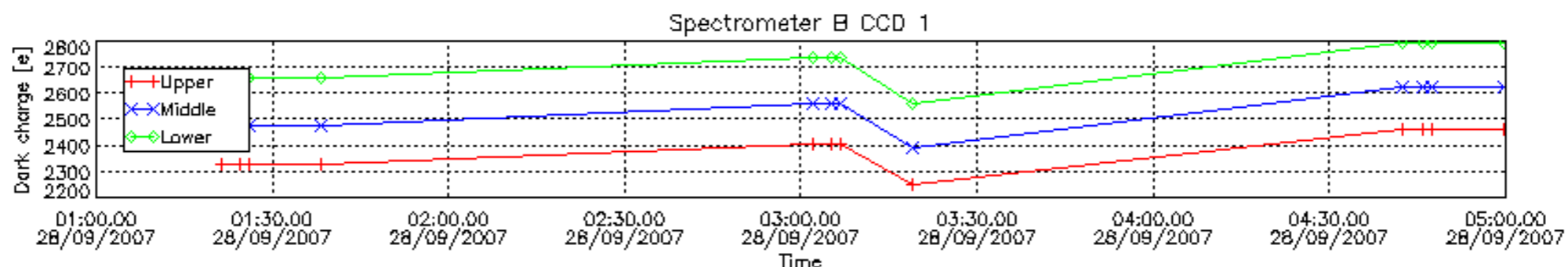
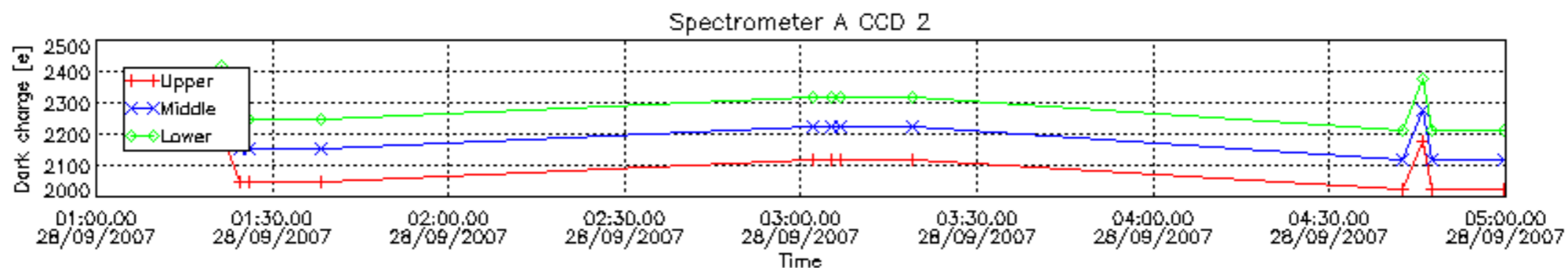
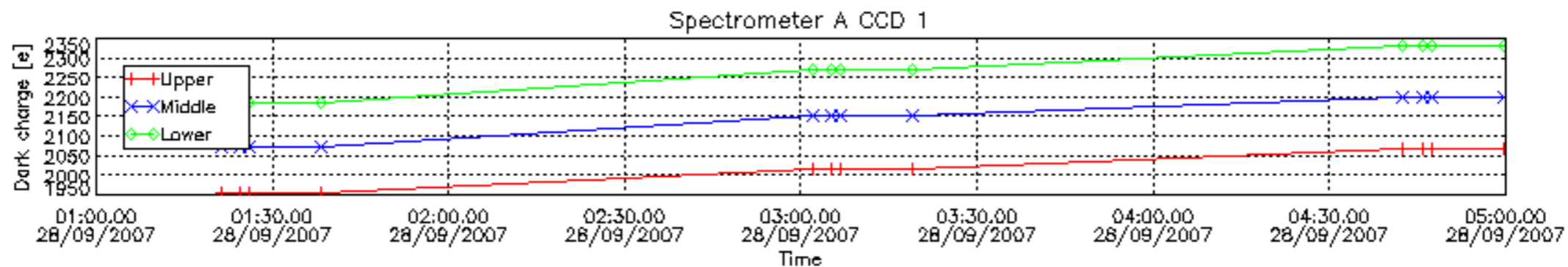
### 8. Auxiliary Data Files used for the production reported in section 2.4

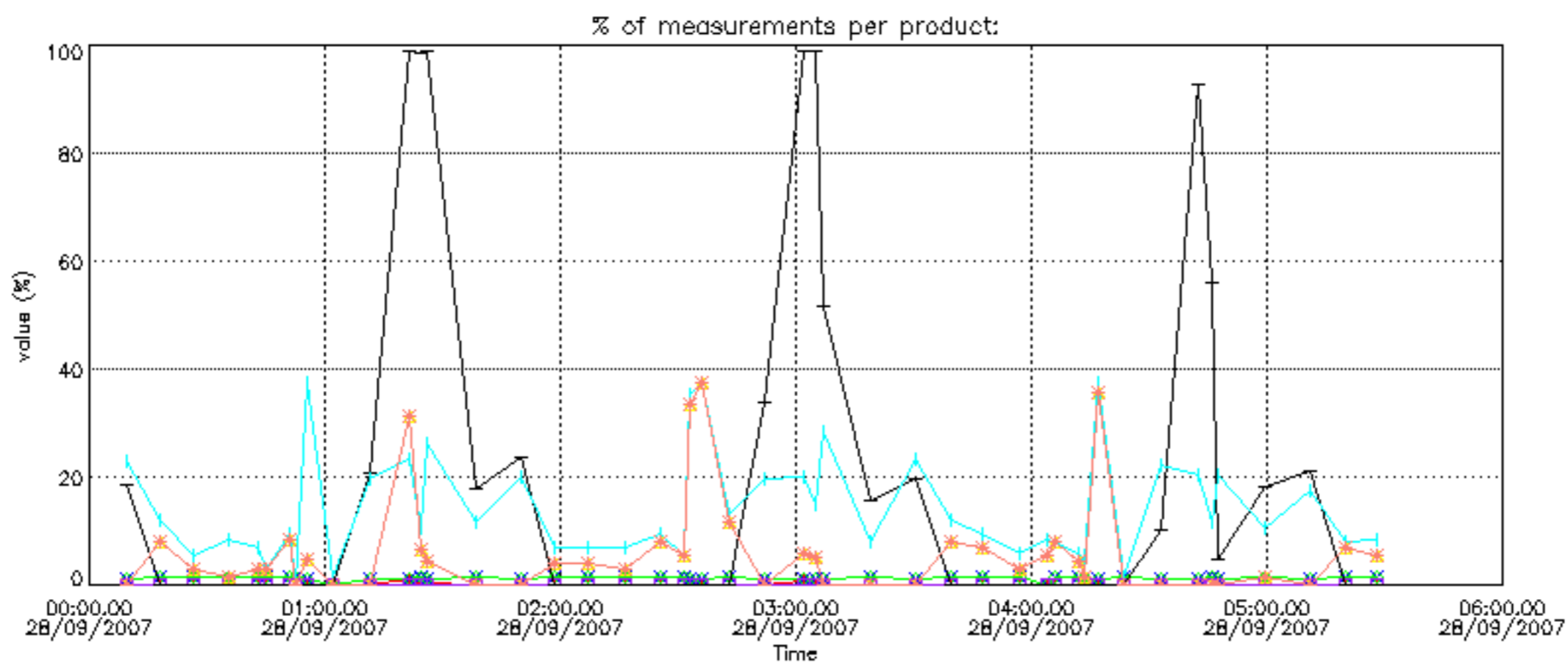
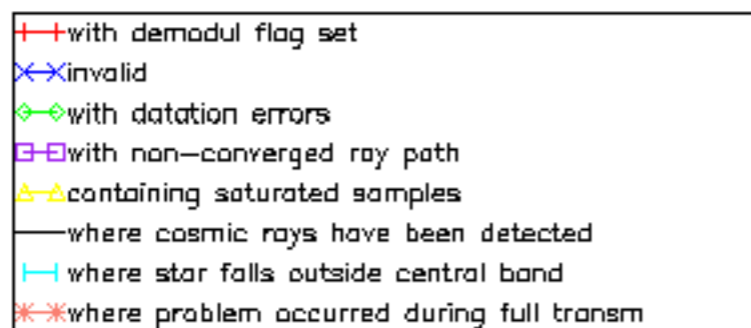
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-SEP-2007 00:09:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	28-SEP-2007 00:09:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-SEP-2007 00:09:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-SEP-2007 00:09:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-SEP-2007 00:09:25
ECMWF_FILE	AUX_ECF_AXNECM20070927_060114_20070927_210000_20070928_090000	1	28-SEP-2007 00:09:25
ECMWF_FILE	AUX_ECF_AXNECM20070927_180113_20070928_030000_20070928_150000	36	28-SEP-2007 04:06:03
OPTIONAL_ECMWF_FILE	MISSING	1	28-SEP-2007 00:09:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070927_214153_000057382062_00043_29155_4243.N1	1	28-SEP-2007 00:09:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070927_231732_000063762062_00044_29156_4244.N1	11	28-SEP-2007 01:11:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070928_010906_000041442062_00045_29157_4245.N1	20	28-SEP-2007 02:23:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070928_022329_000057382062_00046_29158_4246.N1	36	28-SEP-2007 04:06:03



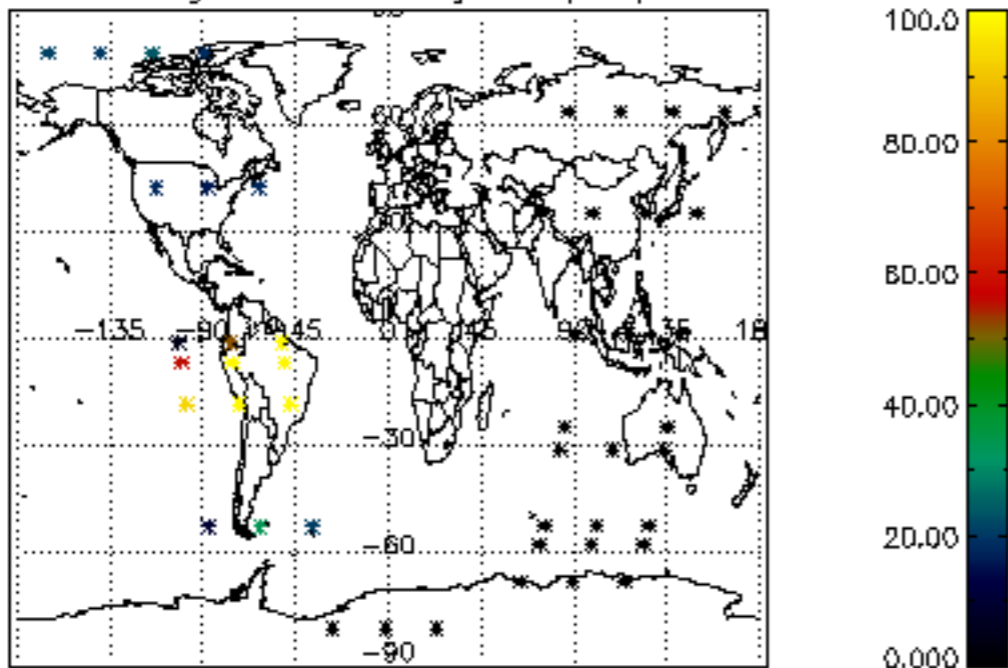




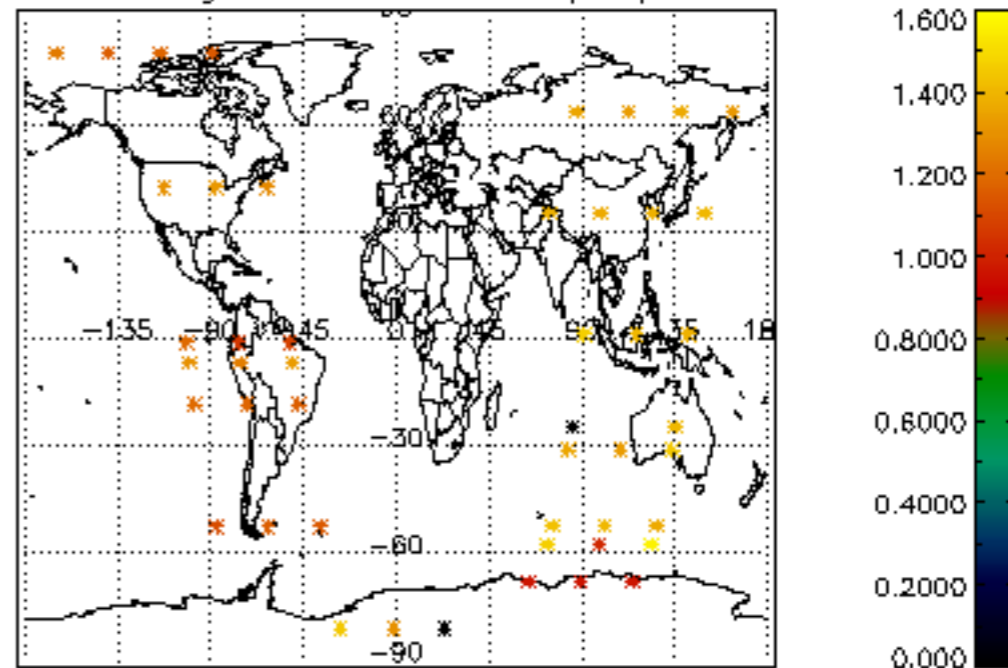




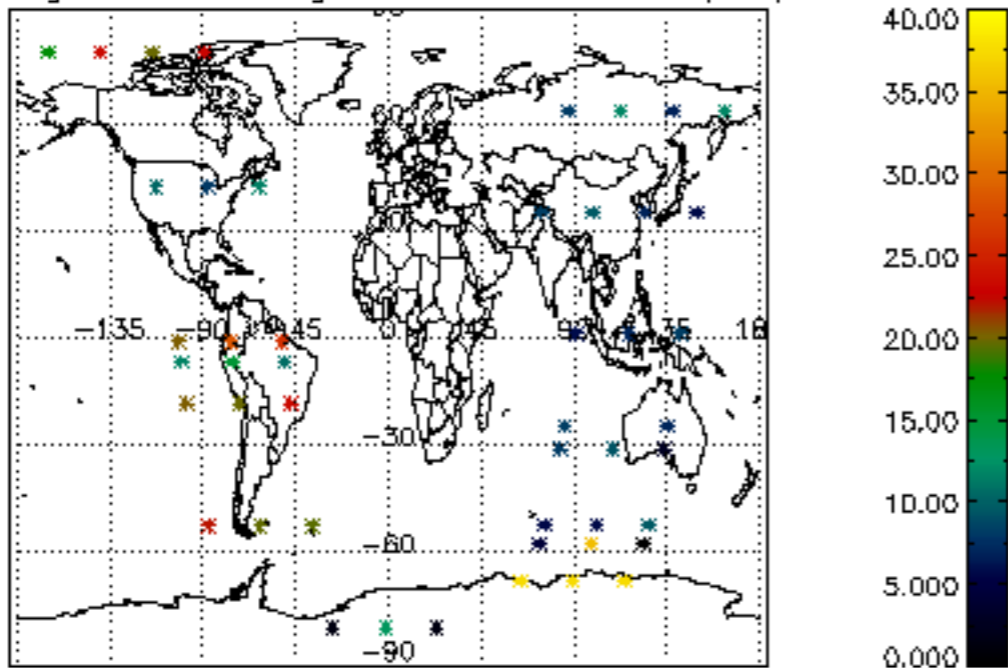
Percentage of cosmic ray hits per profile



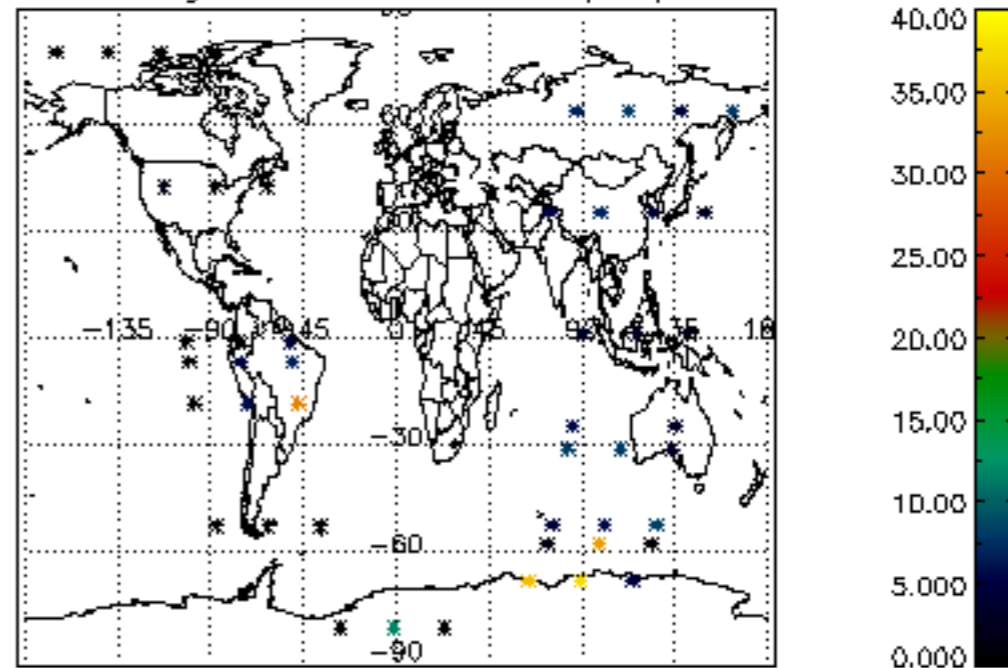
Percentage of datation errors per profile



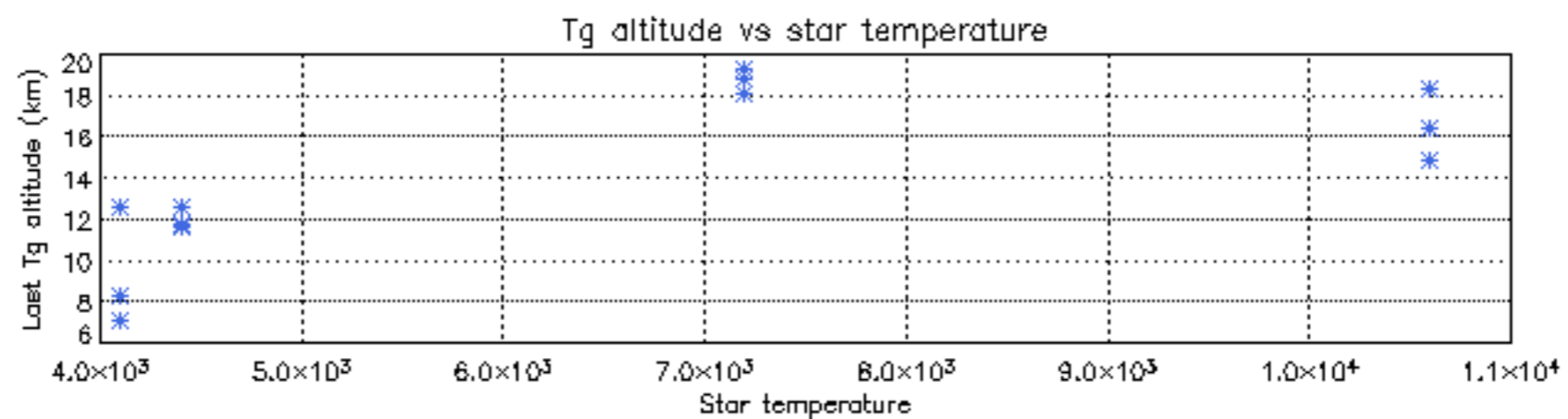
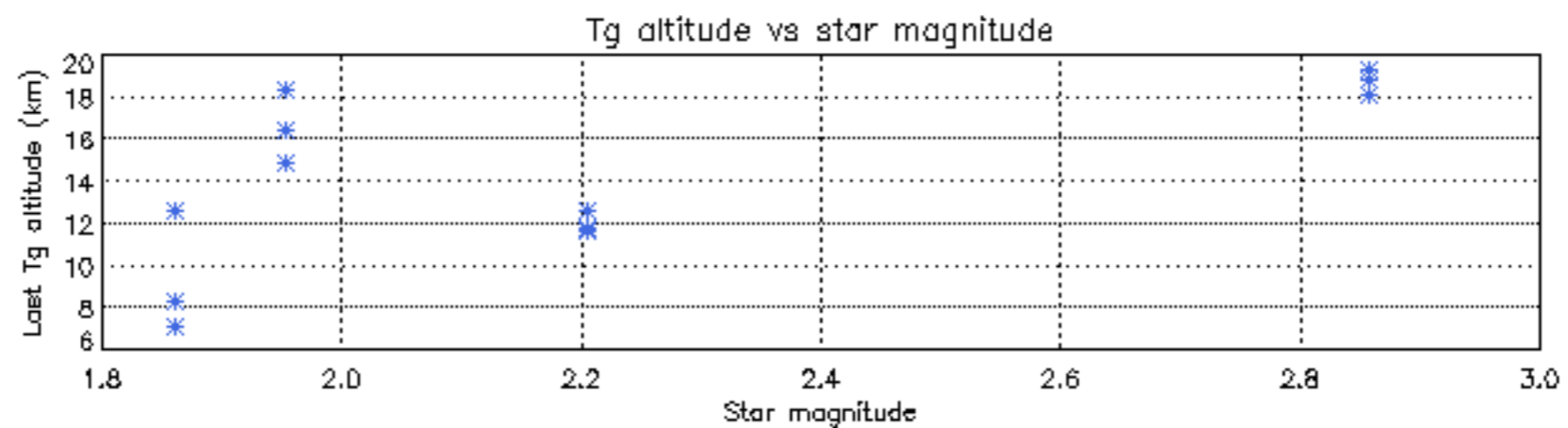
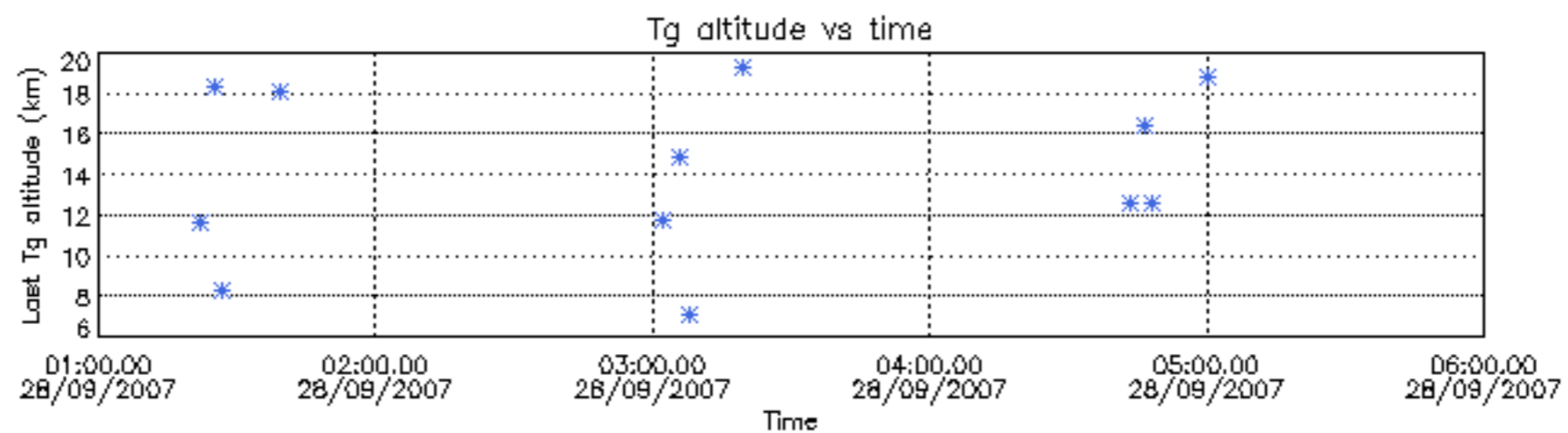
Percentage of star falling outside central band per profile



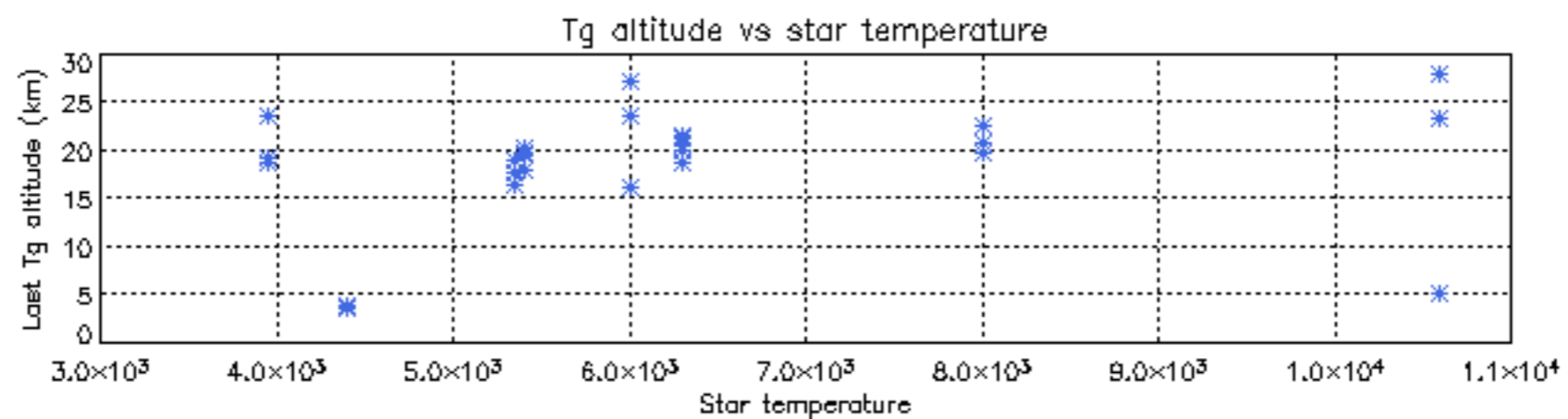
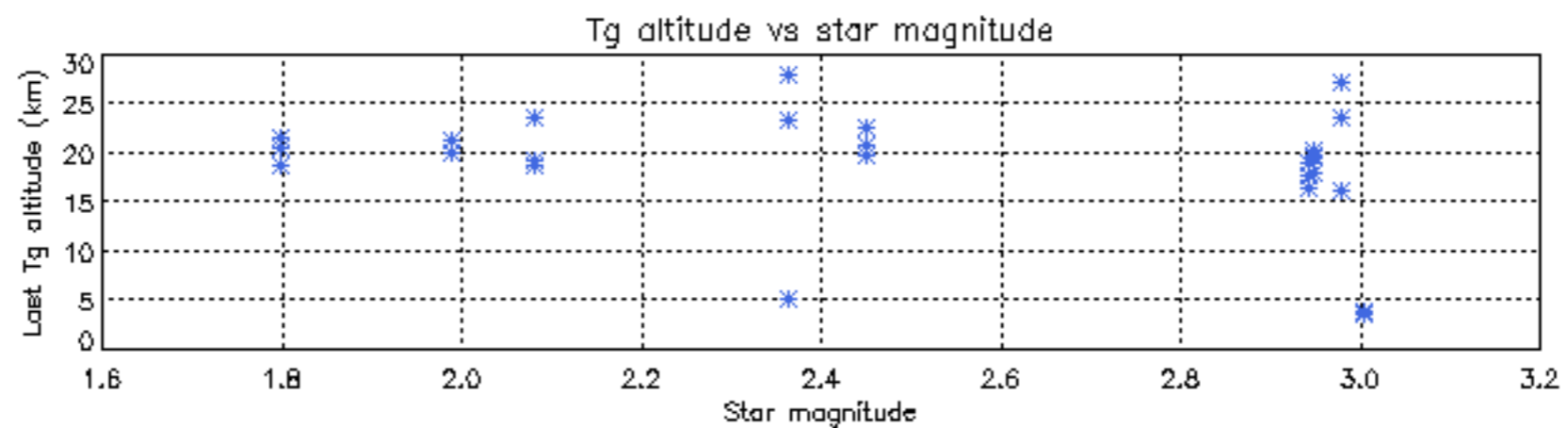
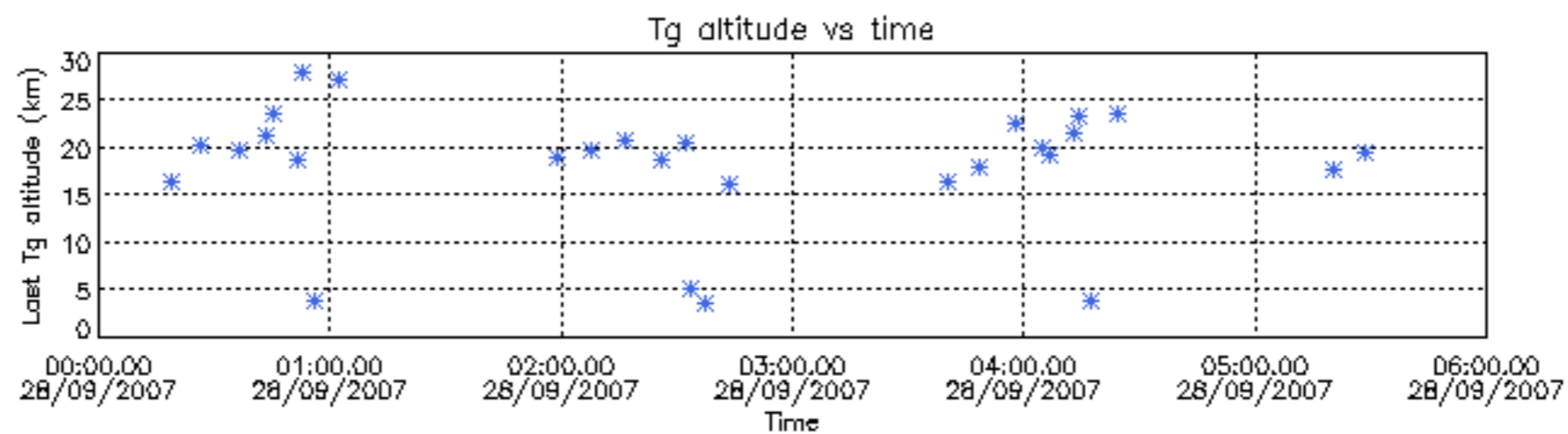
Percentage of saturation errors per profile



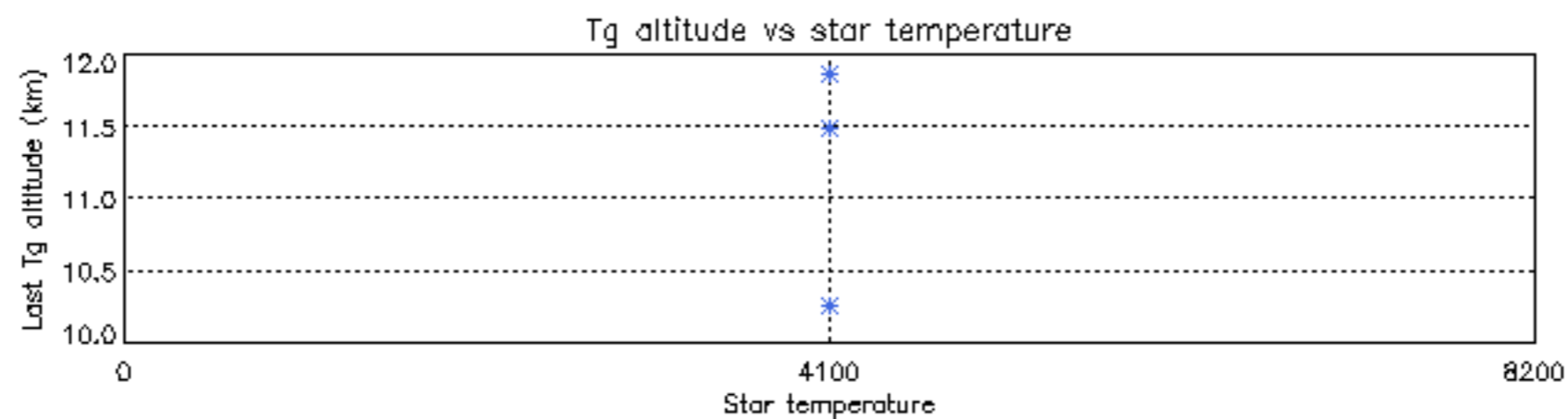
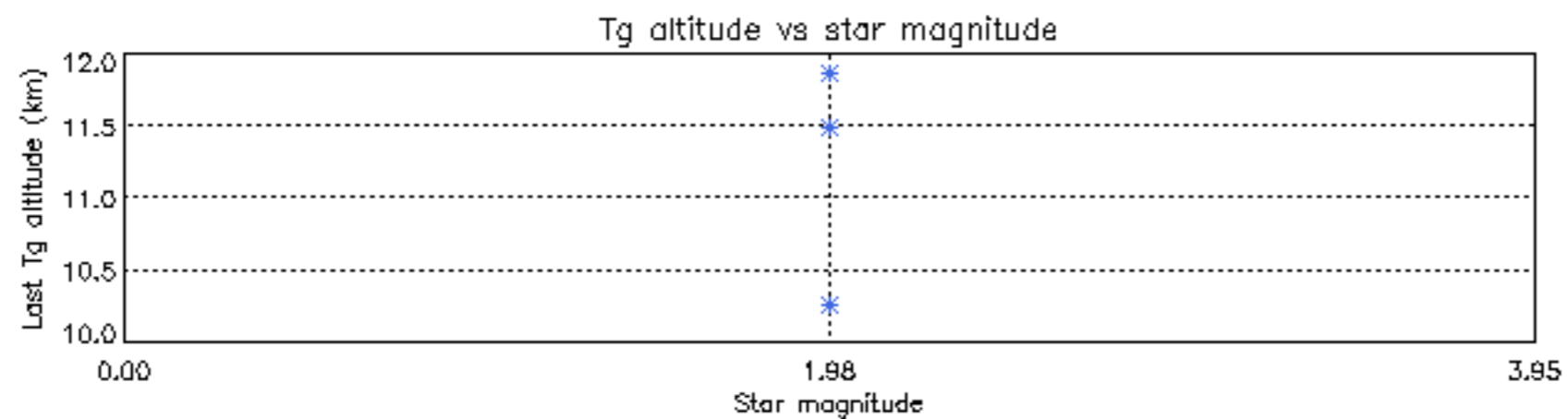
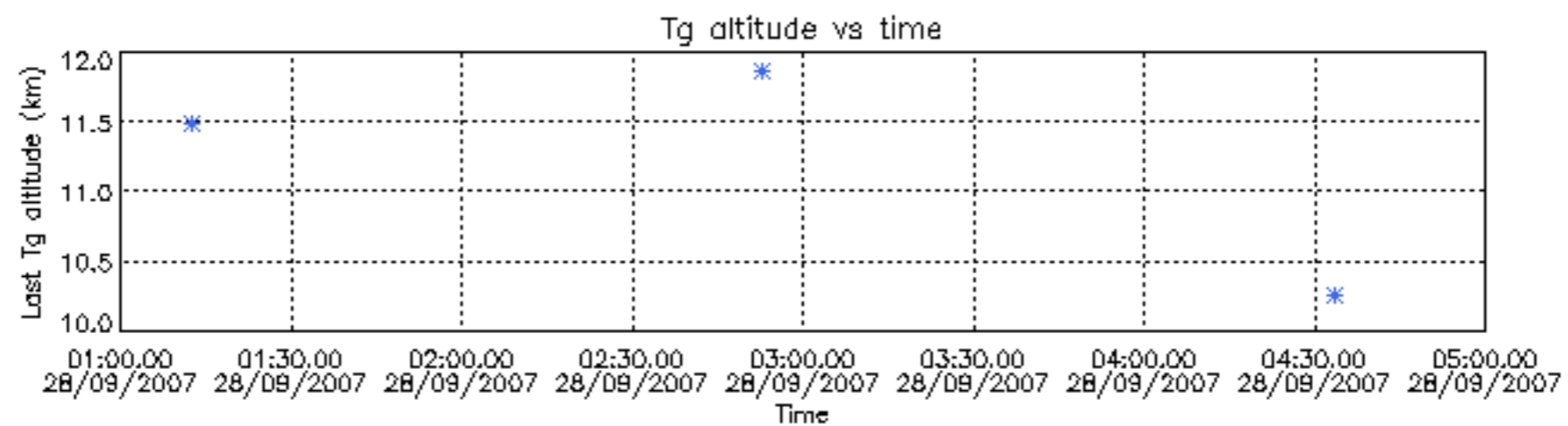
Tangent altitude at which the star is lost

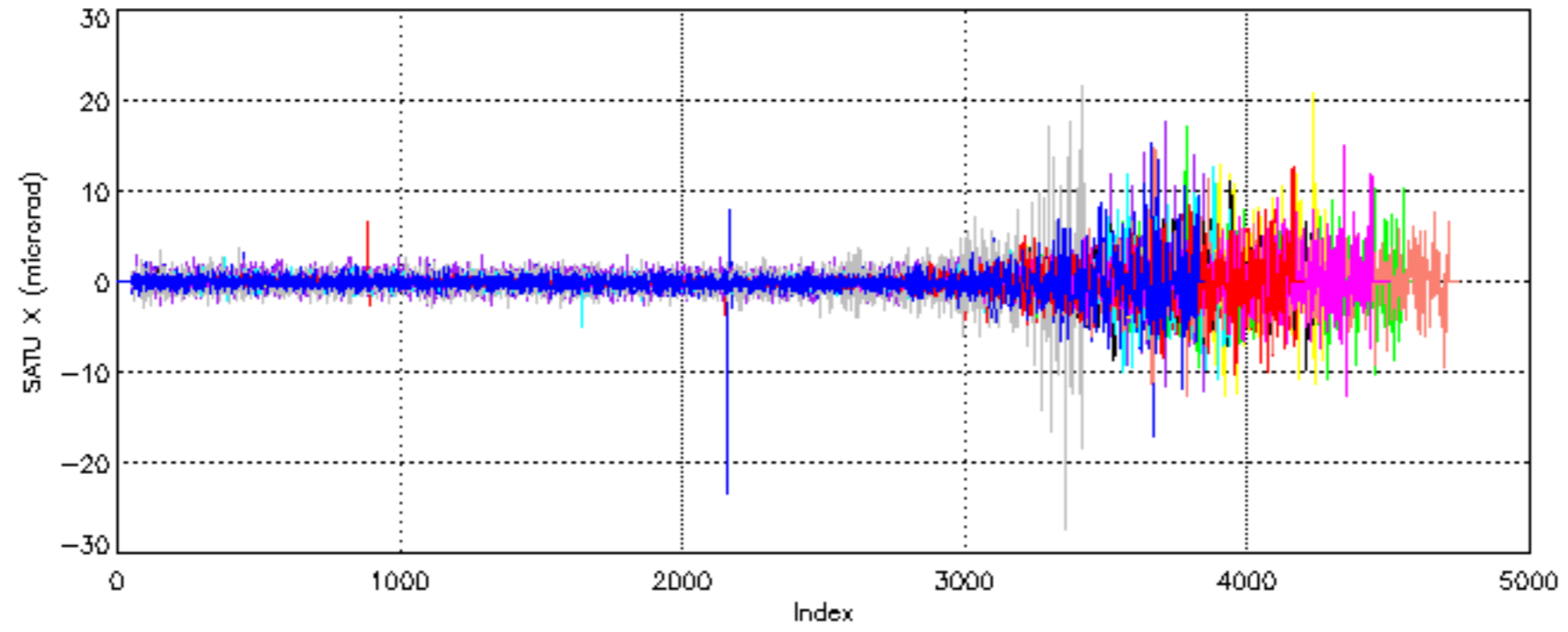


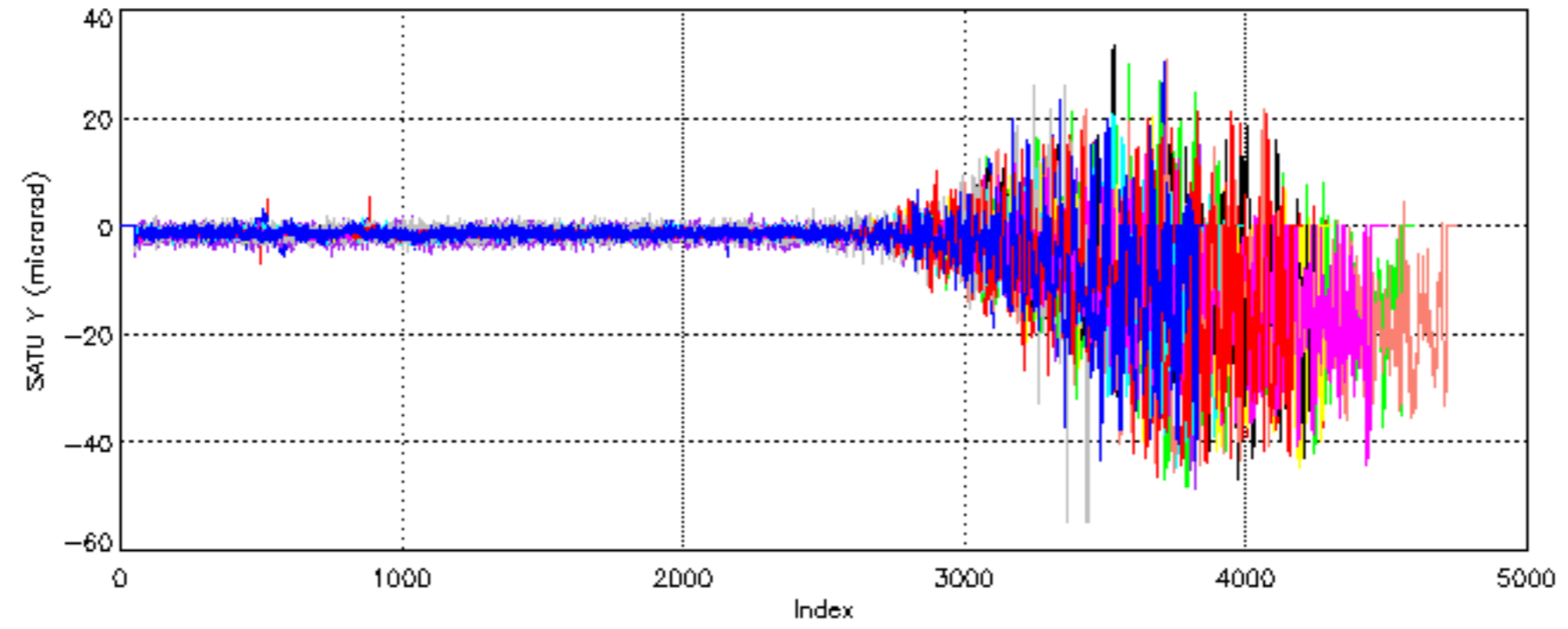
Tangent altitude at which the star is lost

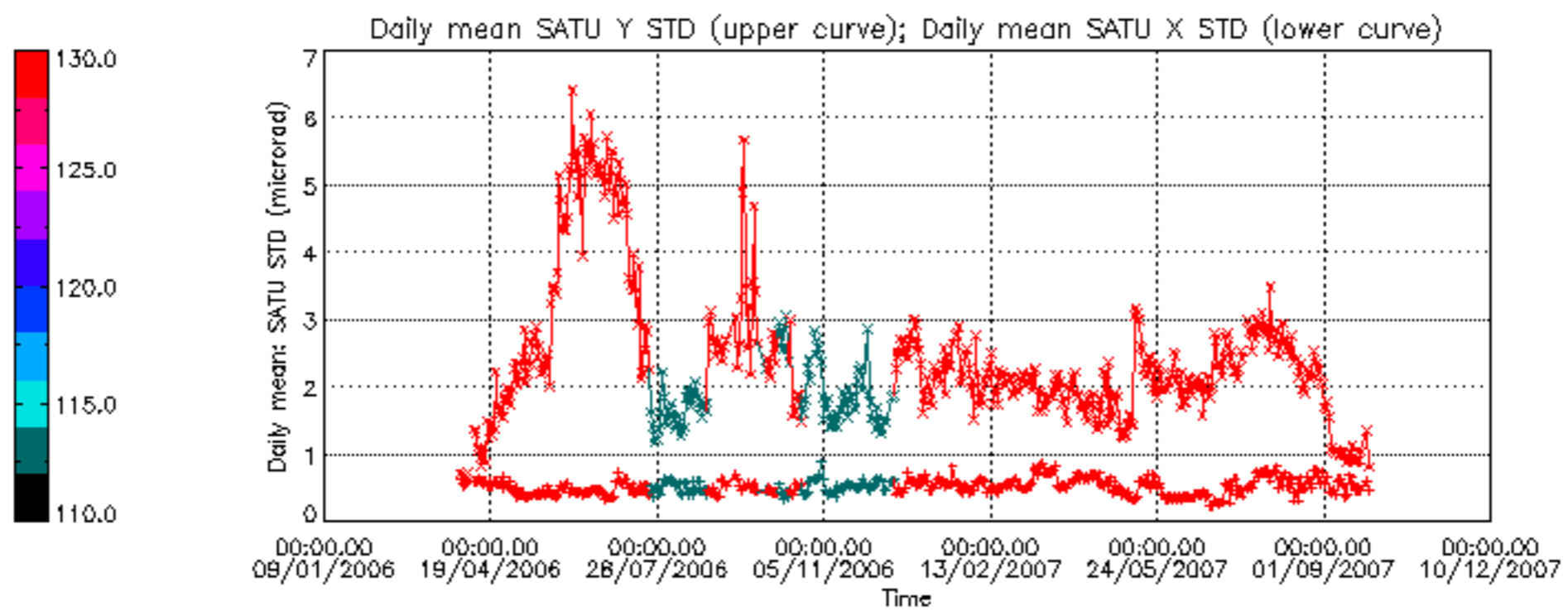


Tangent altitude at which the star is lost









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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  
 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  
 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771  
 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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 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 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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 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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 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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 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
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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
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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6; 2976.1; 01-SEP-2007 08:06:48; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28775  
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14; 5735.7; 01-SEP-2007 12:13:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28777  
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3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797
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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

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16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798  
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 7; 4456.9; 03-SEP-2007 15:51:14; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28808  
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 9; 5394.3; 03-SEP-2007 16:06:52; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28808  
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 13; 5841.6; 03-SEP-2007 16:14:19; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28808  
 14; 5959.1; 03-SEP-2007 16:16:16; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;28808  
 15; 6580.9; 03-SEP-2007 16:26:38; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28808  
 16; 6659.5; 03-SEP-2007 16:27:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28808  
 17; 7096.7; 03-SEP-2007 16:35:14; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;28808

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 4; 1895.4; 03-SEP-2007 16:49:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28809  
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 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 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  
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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
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 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
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 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
 6; 3958.7; 04-SEP-2007 23:34:19; Bright; 101.0; 79; 26Bet Per ; 2.31; 13100;occ; 202; 0;28827
 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
 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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