

# GOMOS Daily Report 05-APR-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	07APR2007 05:33:05
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (05APR2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	2

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

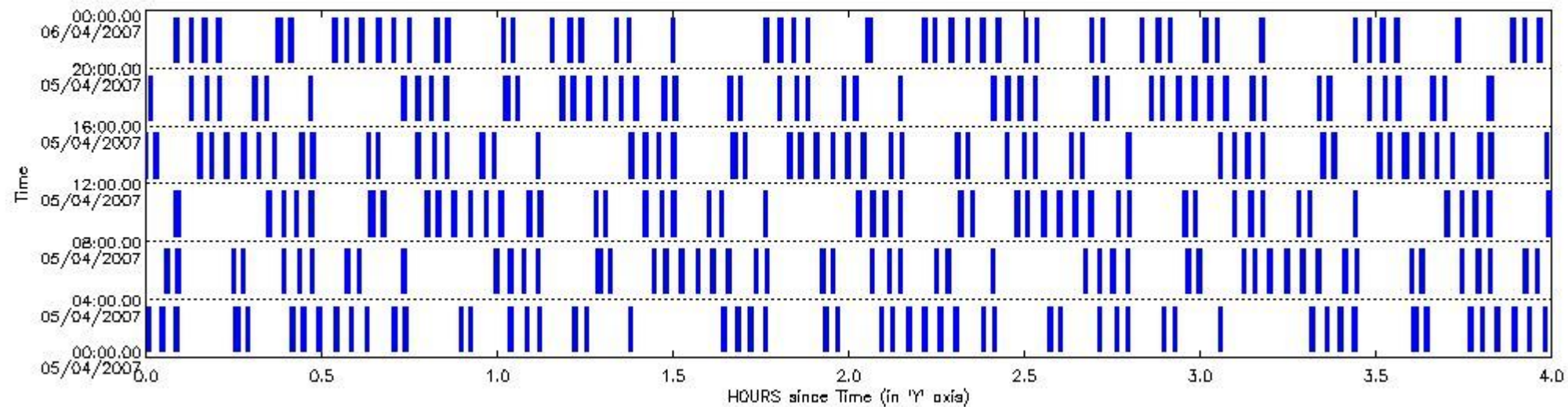
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

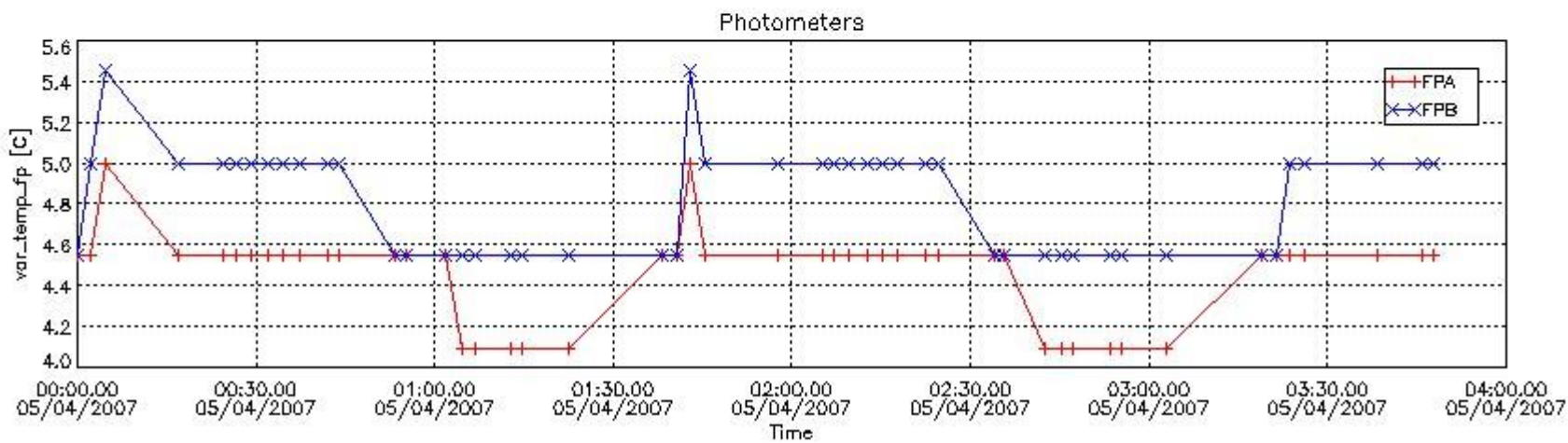
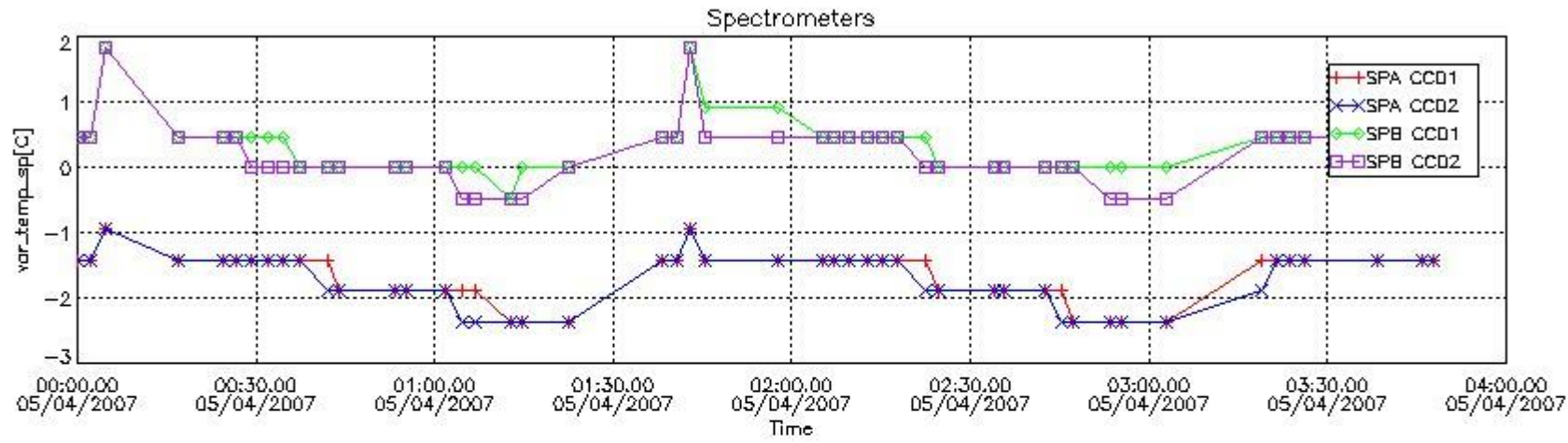
No missing products.

### 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_1PNPDE20070405_000004_000000422057_00030_26637_9168.N1	05-APR-2007 00:00:04	Twilight	41.500	162	34Alp Aqr	2.9440	5350.0	83	26637	No
2	GOM_TRA_1PNPDE20070405_000215_000000452057_00030_26637_9169.N1	05-APR-2007 00:02:15	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	26637	No
3	GOM_TRA_1PNPDE20070405_000446_000000432057_00030_26637_9211.N1	05-APR-2007 00:04:46	Dark	42.500	142	49Del Cap	2.8500	8900.0	85	26637	Yes
4	GOM_TRA_1PNPDE20070405_001704_000000382057_00030_26637_9212.N1	05-APR-2007 00:17:04	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26637	No
5	GOM_TRA_1PNPDE20070405_002435_000000462057_00031_26638_9213.N1	05-APR-2007 00:24:35	Dark	45.500	43	Alp TrA	1.9100	4250.0	91	26638	No
6	GOM_TRA_1PNPDE20070405_002631_000000402057_00031_26638_9214.N1	05-APR-2007 00:26:31	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	26638	No
7	GOM_TRA_1PNPDE20070405_002906_000000442057_00031_26638_9215.N1	05-APR-2007 00:29:06	Straylight	43.500	4	Alp1Cen	-0.010000	5800.0	87	26638	No
8	GOM_TRA_1PNPDE20070405_003159_000000452057_00031_26638_9216.N1	05-APR-2007 00:31:59	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	26638	No
9	GOM_TRA_1PNPDE20070405_003438_000000422057_00031_26638_9217.N1	05-APR-2007 00:34:38	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	26638	No
10	GOM_TRA_1PNPDE20070405_003716_000000432057_00031_26638_9218.N1	05-APR-2007 00:37:16	Straylight	42.500	123	lot Cen	2.7500	10200.	85	26638	No
11	GOM_TRA_1PNPDE20070405_004158_000000432057_00031_26638_9219.N1	05-APR-2007 00:41:58	Twilight_and_stray	42.500	106	9Bet Crv	2.6480	5600.0	85	26638	No
12	GOM_TRA_1PNPDE20070405_004353_000000402057_00031_26638_9220.N1	05-APR-2007 00:43:53	Twilight_and_stray	40.000	100	4Gam Crv	2.5800	13100.	80	26638	No

13	GOM_TRA_1PNPDE20070405_005325_000000382057_00031_26638_9221.N1	05-APR-2007 00:53:25	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	26638	No
14	GOM_TRA_1PNPDE20070405_005506_000000362057_00031_26638_9222.N1	05-APR-2007 00:55:06	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	26638	No
15	GOM_TRA_1PNPDE20070405_010152_000000362057_00031_26638_9223.N1	05-APR-2007 01:01:52	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	26638	No
16	GOM_TRA_1PNPDE20070405_010446_000000382057_00031_26638_9224.N1	05-APR-2007 01:04:46	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	26638	No
17	GOM_TRA_1PNPDE20070405_010644_000000372057_00031_26638_9225.N1	05-APR-2007 01:06:44	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26638	No
18	GOM_TRA_1PNPDE20070405_011249_000000402057_00031_26638_9226.N1	05-APR-2007 01:12:49	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	26638	No
19	GOM_TRA_1PNPDE20070405_011449_000000332057_00031_26638_9227.N1	05-APR-2007 01:14:49	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	26638	No
20	GOM_TRA_1PNPDE20070405_012227_000000362057_00031_26638_9228.N1	05-APR-2007 01:22:27	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	26638	No
21	GOM_TRA_1PNPDE20070405_013810_000000472057_00031_26638_9229.N1	05-APR-2007 01:38:10	Twilight	47.000	61	8Eps Peg	2.1000	3900.0	94	26638	No
22	GOM_TRA_1PNPDE20070405_014039_000000432057_00031_26638_9230.N1	05-APR-2007 01:40:39	Twilight	42.500	162	34Alp Aqr	2.9440	5350.0	85	26638	No
23	GOM_TRA_1PNPDE20070405_014251_000000452057_00031_26638_9362.N1	05-APR-2007 01:42:51	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	26638	Yes
24	GOM_TRA_1PNPDE20070405_014523_000000402057_00031_26638_9363.N1	05-APR-2007 01:45:23	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	26638	No
25	GOM_TRA_1PNPDE20070405_015740_000000392057_00031_26638_9364.N1	05-APR-2007 01:57:40	Dark	39.000	45	Alp Pav	1.9400	26000.	78	26638	No
26	GOM_TRA_1PNPDE20070405_020512_000000412057_00032_26639_9365.N1	05-APR-2007 02:05:12	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	26639	No
27	GOM_TRA_1PNPDE20070405_020707_000000392057_00032_26639_9366.N1	05-APR-2007 02:07:07	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26639	No
28	GOM_TRA_1PNPDE20070405_020942_000000552057_00032_26639_9367.N1	05-APR-2007 02:09:42	Straylight	54.500	4	Alp1Cen	-0.010000	5800.0	109	26639	No
29	GOM_TRA_1PNPDE20070405_021235_000000452057_00032_26639_9368.N1	05-APR-2007 02:12:35	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	26639	No
30	GOM_TRA_1PNPDE20070405_021514_000000382057_00032_26639_9369.N1	05-APR-2007 02:15:14	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	26639	No
31	GOM_TRA_1PNPDE20070405_021752_000000432057_00032_26639_9370.N1	05-APR-2007 02:17:52	Straylight	42.500	123	lot Cen	2.7500	10200.	85	26639	No
32	GOM_TRA_1PNPDE20070405_022234_000000452057_00032_26639_9371.N1	05-APR-2007 02:22:34	Twilight	44.500	106	9Bet Crv	2.6480	5600.0	89	26639	No
33	GOM_TRA_1PNPDE20070405_022429_000000412057_00032_26639_9372.N1	05-APR-2007 02:24:29	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	26639	No
34	GOM_TRA_1PNPDE20070405_023401_000000382057_00032_26639_9373.N1	05-APR-2007 02:34:01	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	26639	No
35	GOM_TRA_1PNPDE20070405_023542_000000362057_00032_26639_9374.N1	05-APR-2007 02:35:42	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	26639	No
36	GOM_TRA_1PNPDE20070405_024228_000000352057_00032_26639_9375.N1	05-APR-2007 02:42:28	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	26639	No
37	GOM_TRA_1PNPDE20070405_024521_000000362057_00032_26639_9376.N1	05-APR-2007 02:45:21	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26639	No
38	GOM_TRA_1PNPDE20070405_024720_000000372057_00032_26639_9377.N1	05-APR-2007 02:47:20	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	26639	No
39	GOM_TRA_1PNPDE20070405_025325_000000372057_00032_26639_9378.N1	05-APR-2007 02:53:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	26639	No
40	GOM_TRA_1PNPDE20070405_025525_000000342057_00032_26639_9379.N1	05-APR-2007 02:55:25	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	26639	No
41	GOM_TRA_1PNPDE20070405_030302_000000402057_00032_26639_9538.N1	05-APR-2007 03:03:02	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	26639	No
42	GOM_TRA_1PNPDE20070405_031846_000000452057_00032_26639_9539.N1	05-APR-2007 03:18:46	Twilight	45.000	61	8Eps Peg	2.1000	3900.0	90	26639	No
43	GOM_TRA_1PNPDE20070405_032116_000000412057_00032_26639_9540.N1	05-APR-2007 03:21:16	Twilight	41.000	162	34Alp Aqr	2.9440	5350.0	82	26639	No
44	GOM_TRA_1PNPDE20070405_032327_000000442057_00032_26639_9541.N1	05-APR-2007 03:23:27	Dark	44.000	154	22Bet Aqr	2.8990	5700.0	88	26639	No
45	GOM_TRA_1PNPDE20070405_032559_000000422057_00032_26639_9542.N1	05-APR-2007 03:25:59	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26639	No
46	GOM_TRA_1PNPDE20070405_033817_000000402057_00032_26639_9543.N1	05-APR-2007 03:38:17	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26639	No
47	GOM_TRA_1PNPDE20070405_034548_000000412057_00033_26640_9544.N1	05-APR-2007 03:45:48	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	26640	No
48	GOM_TRA_1PNPDE20070405_034744_000000402057_00033_26640_9545.N1	05-APR-2007 03:47:44	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26640	No

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



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

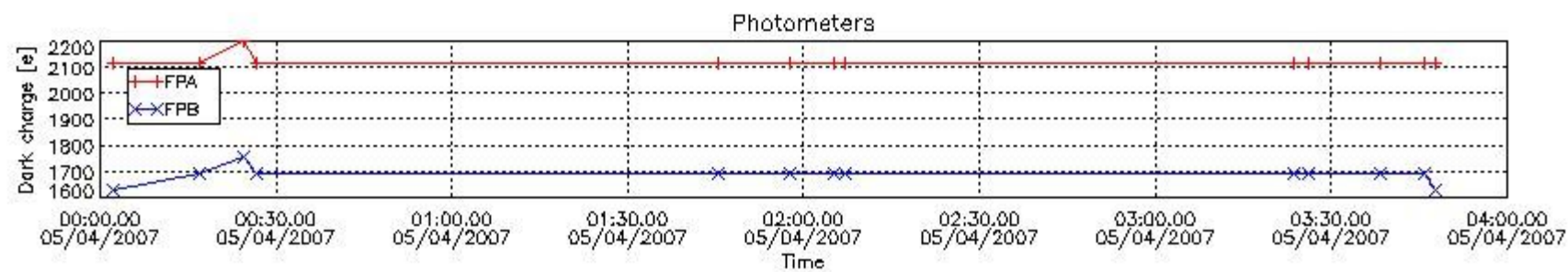
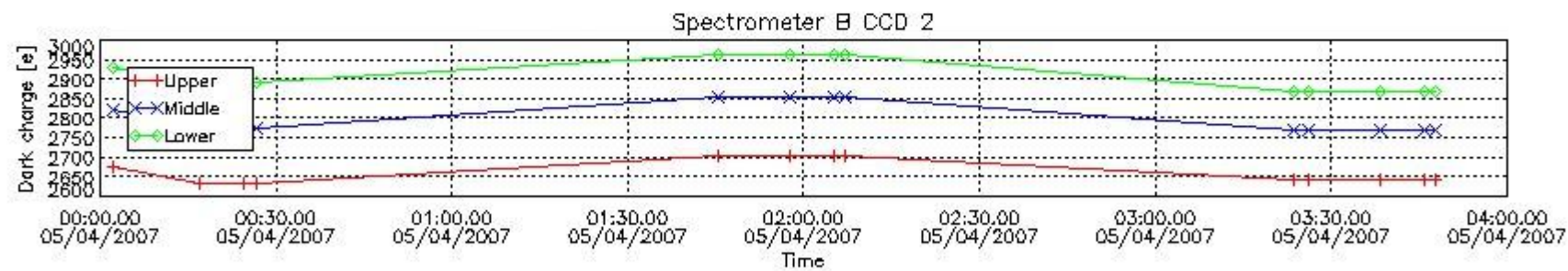
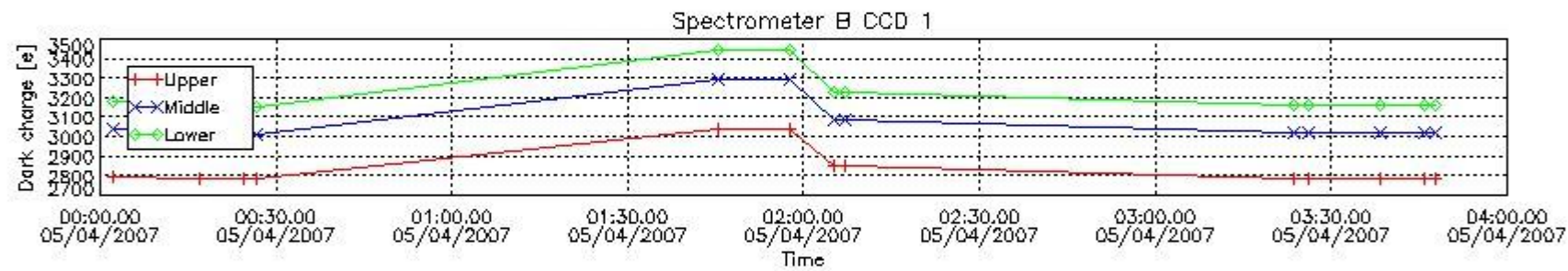
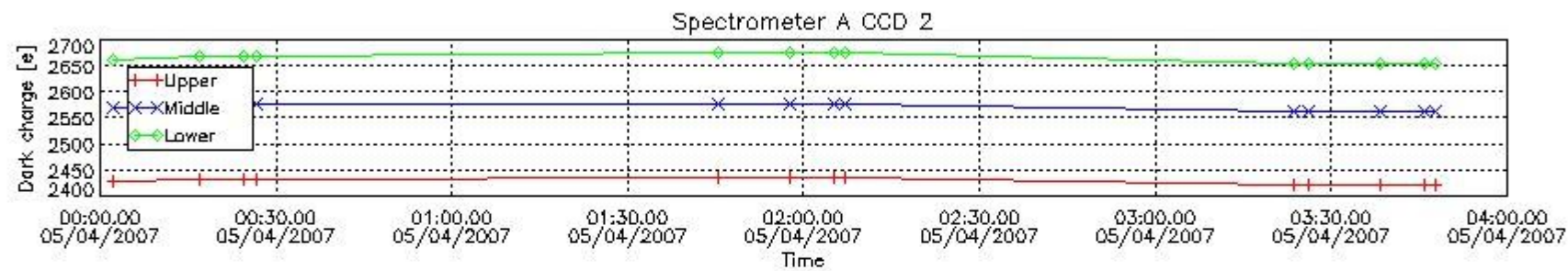
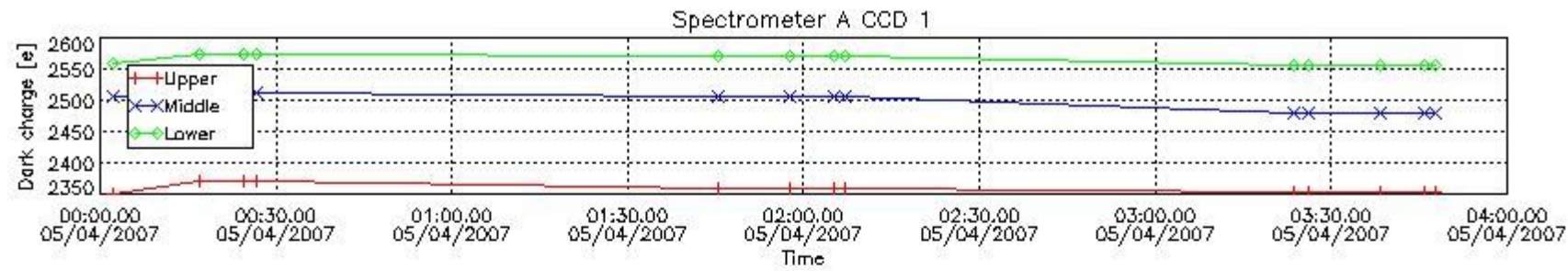
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





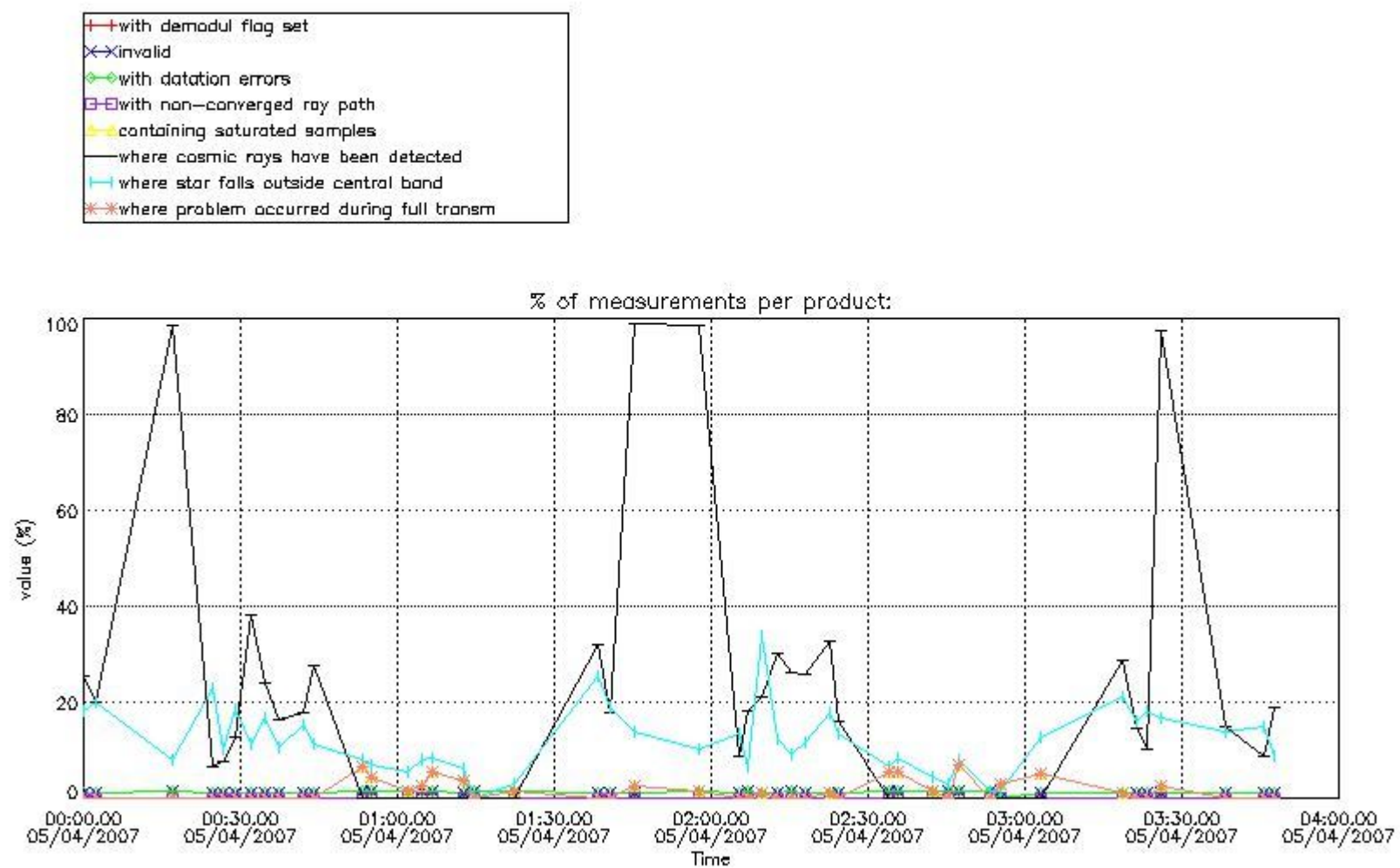
## 5. Demodulation flag and quality information monitoring

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:

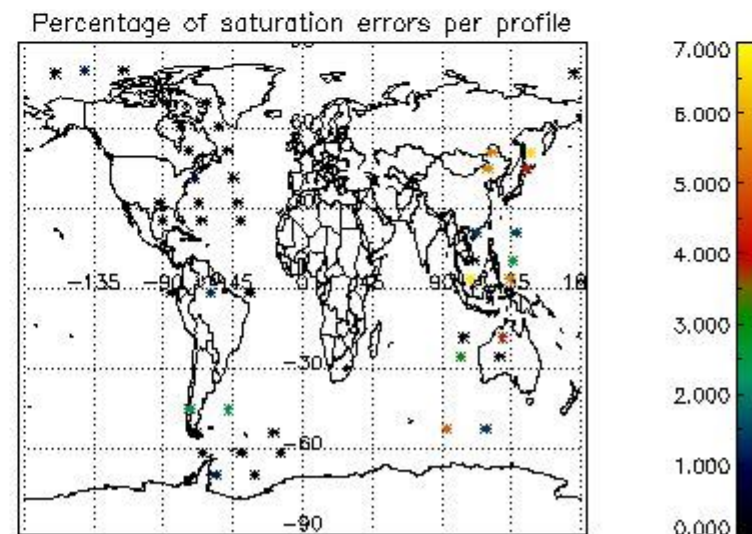
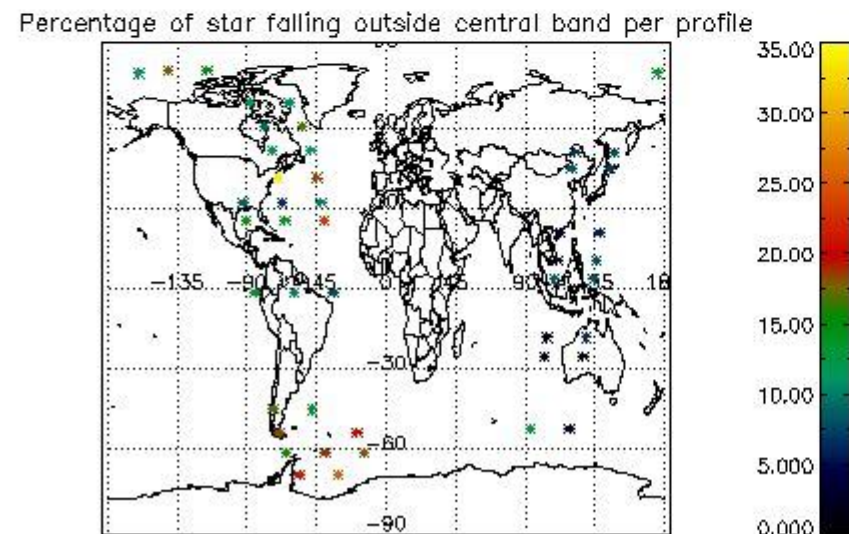
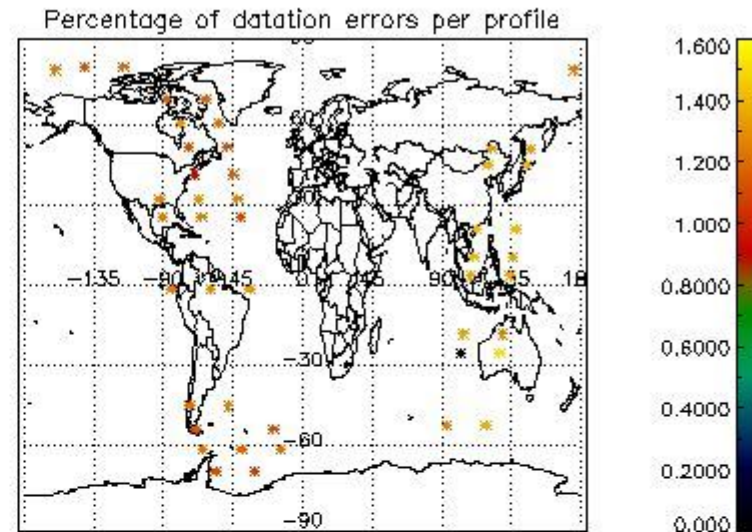
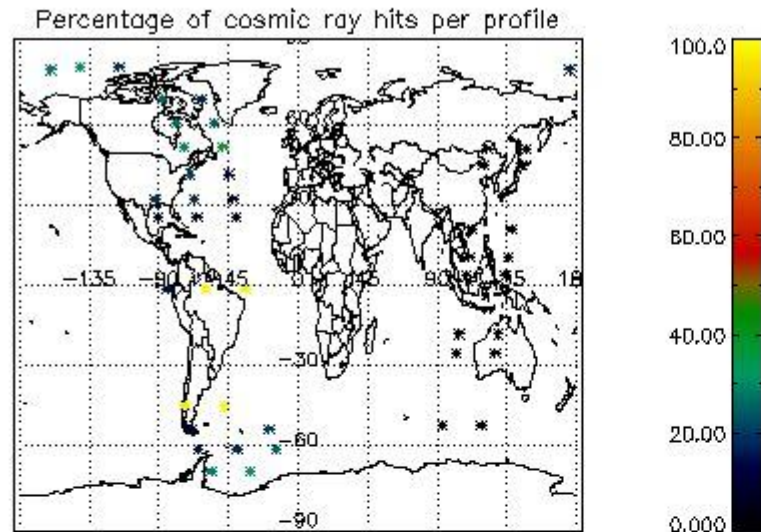
At least one measurement with demodulation flag set:	19.5652 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





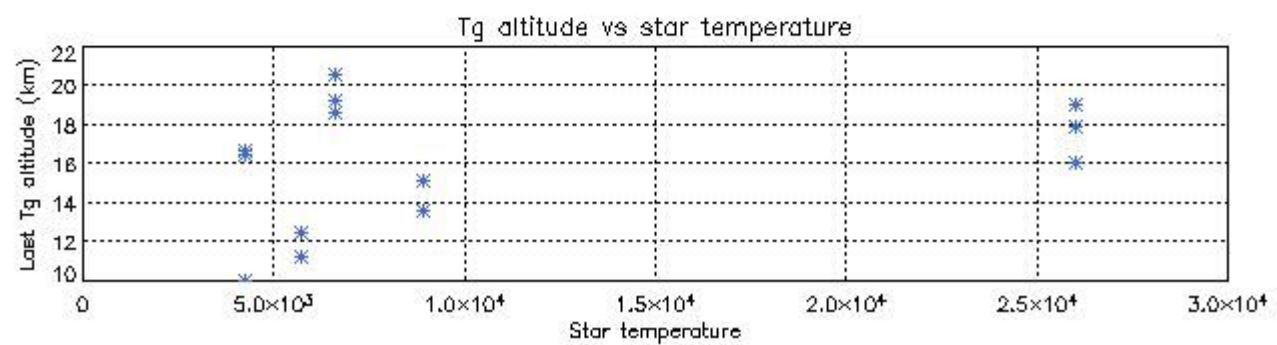
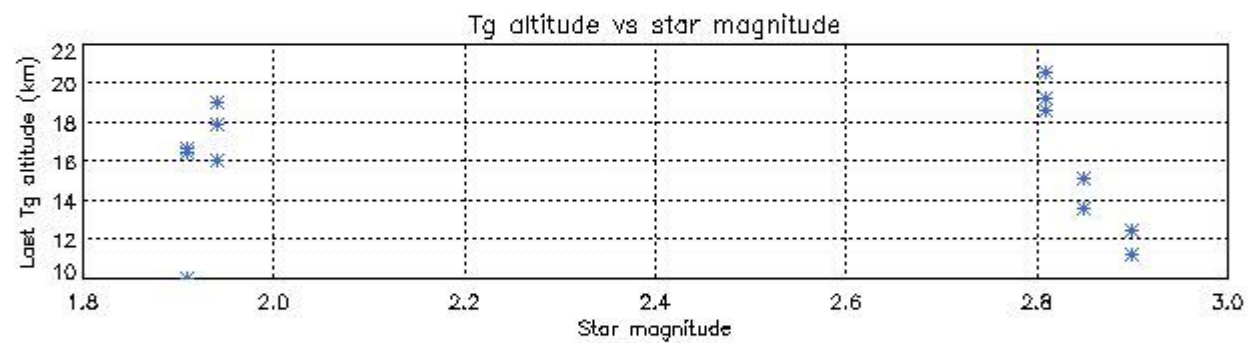
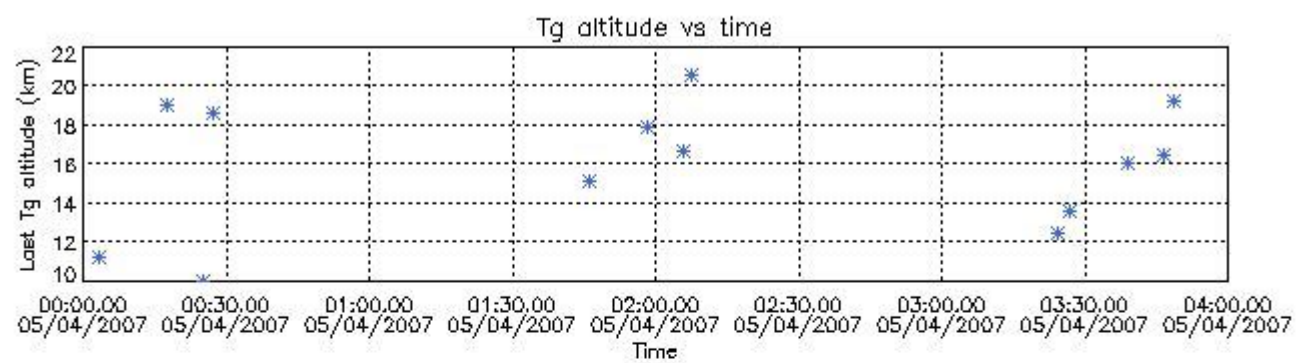
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.923	21.852	12.300
St. deviation:	3.2896	2.6969	0.76140
Maximum:	20.613	27.169	13.081
Minimum:	10.010	18.468	11.559
Number of data:	13.000	16.000	3.0000

### 6.2 Plot for DARK limb products

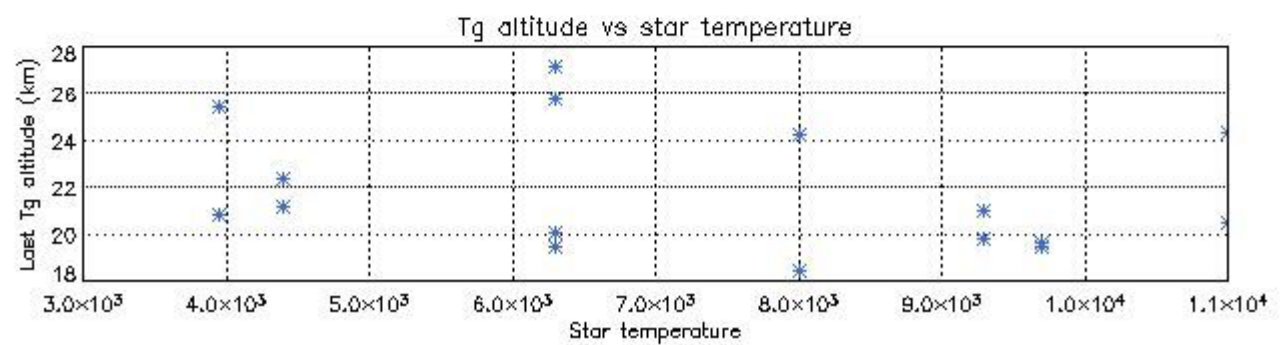
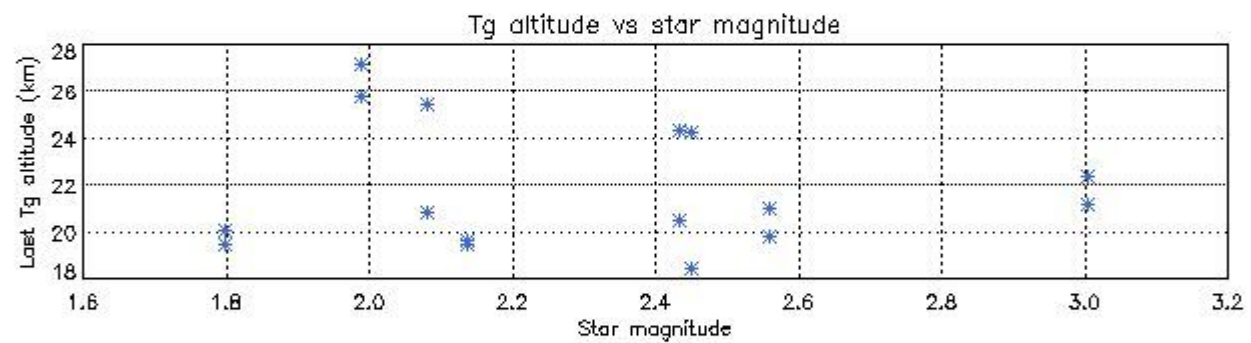
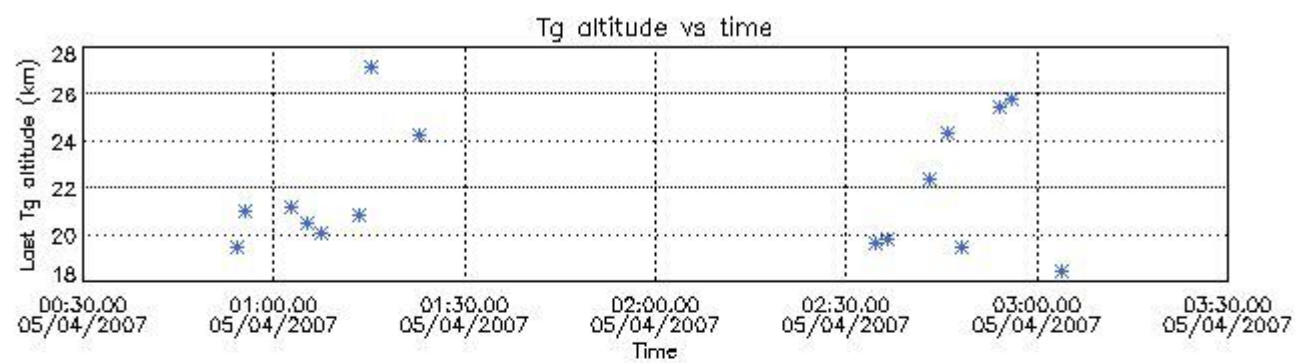
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

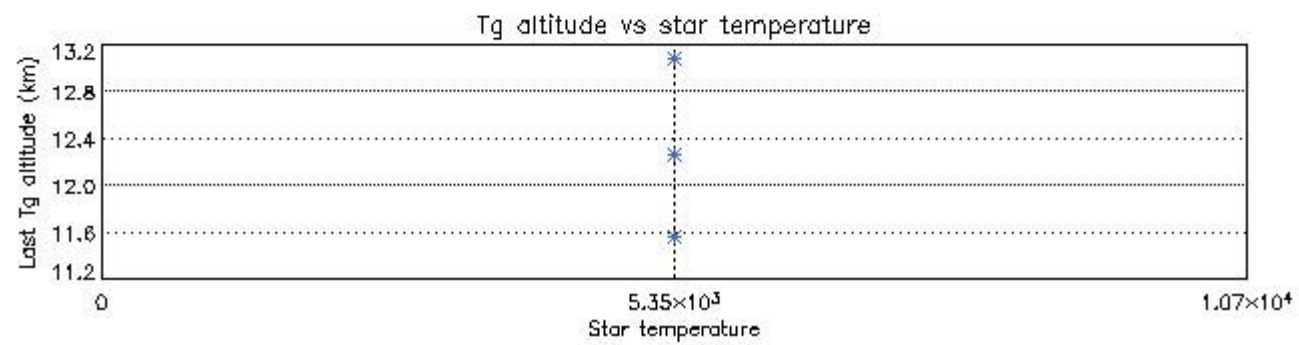
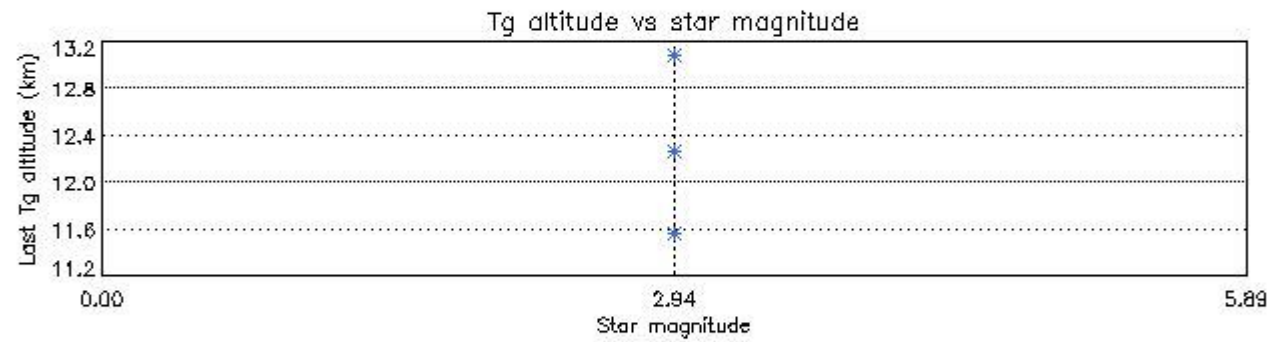
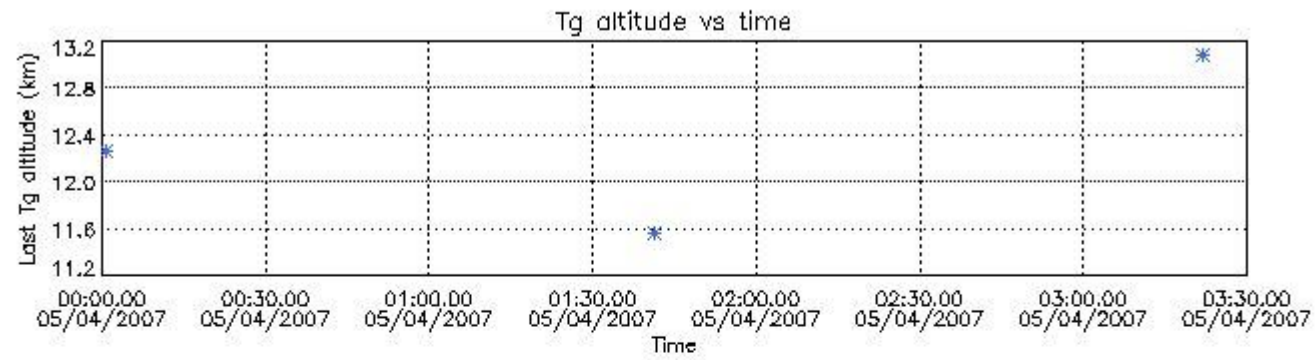


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

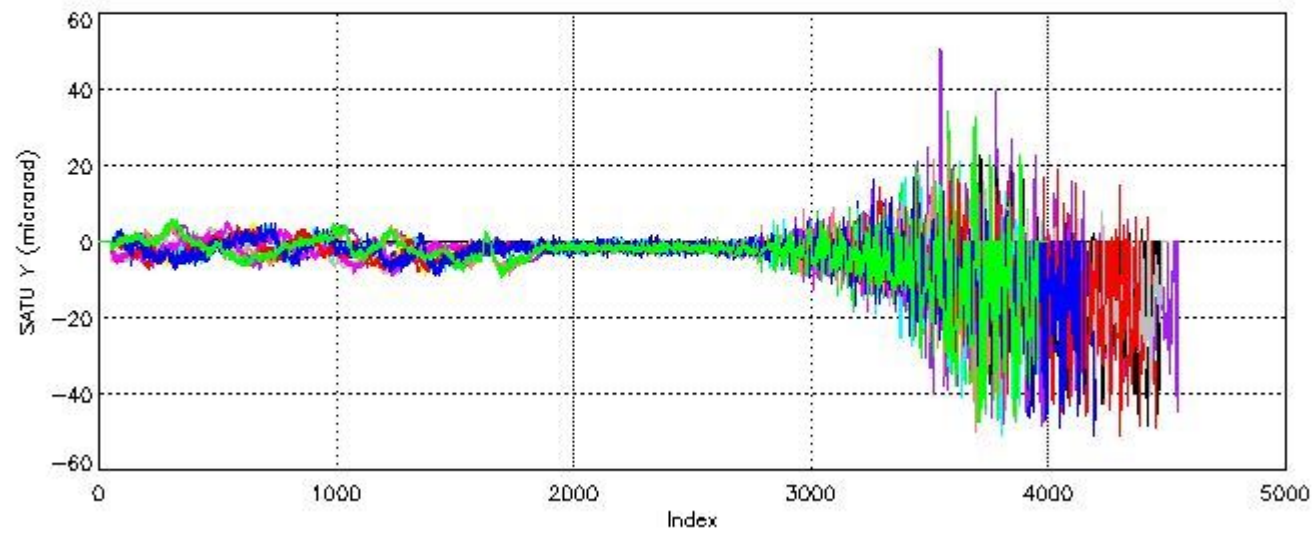
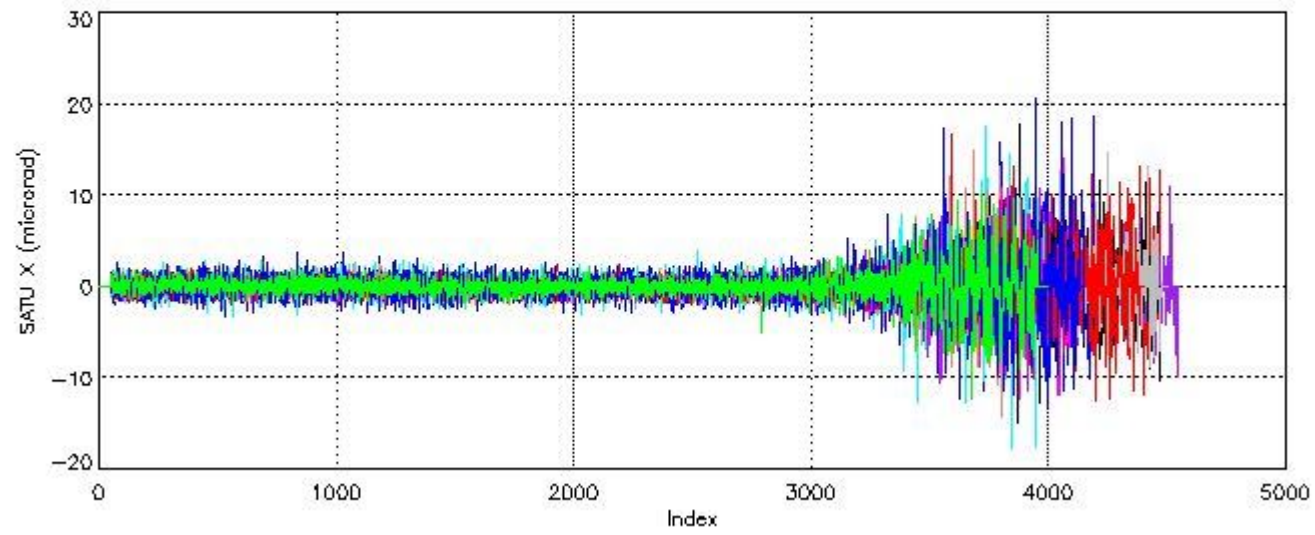


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.099090	-1.0525	0.10398	-0.92577
St. deviation:	0.62738	2.2174	0.70982	2.0008
Maximum:	3.6000	5.8000	3.9000	5.4000
Minimum:	-3.4000	-8.0000	-3.4000	-8.7000



Number of data:	11700.	11700.	13300.	13300.
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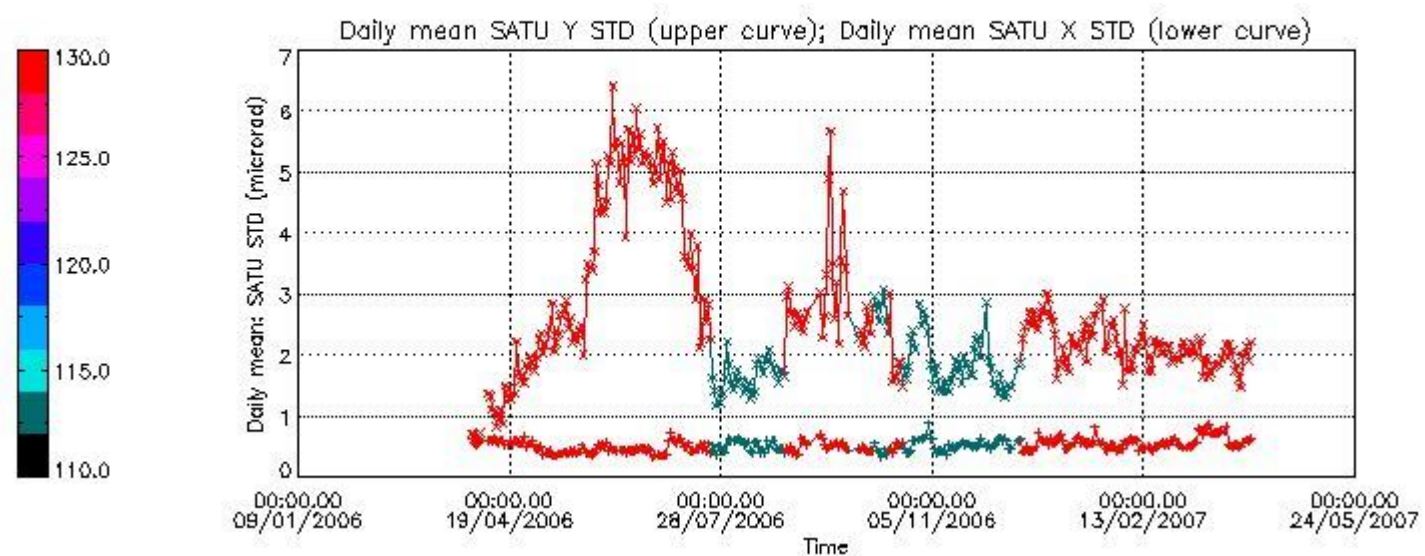
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

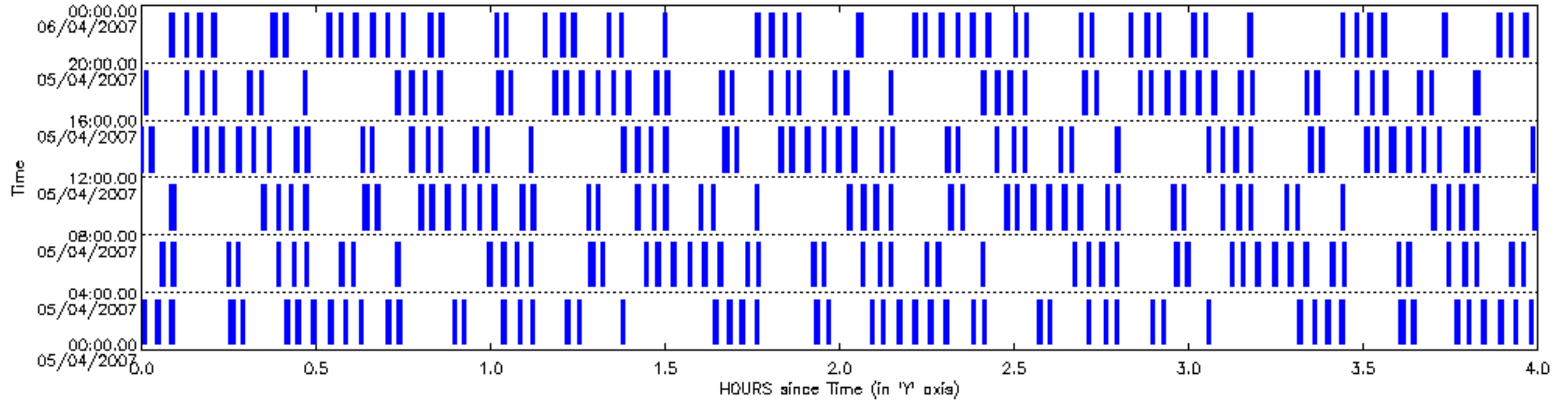
Lower curve: STD of SATU X axis

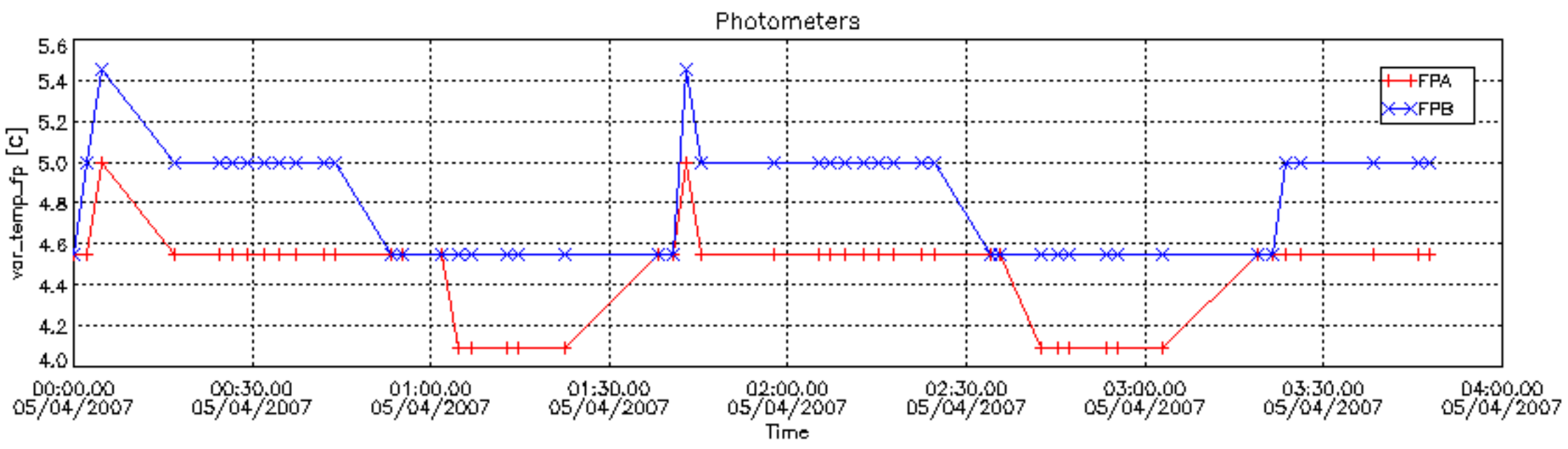
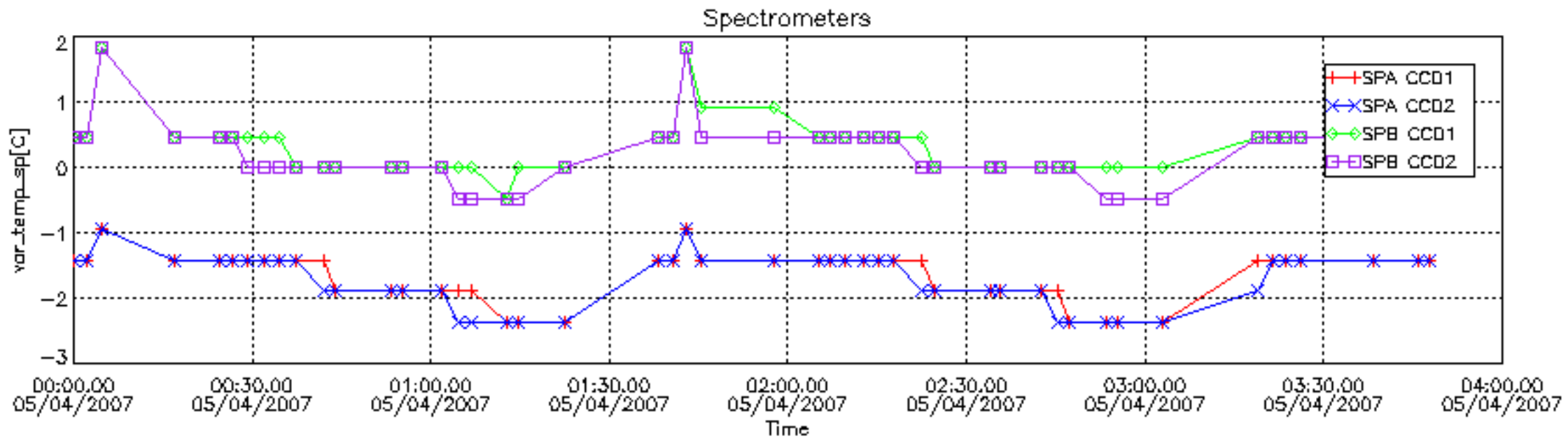


### 8. Auxiliary Data Files used for the production reported in section 2.4

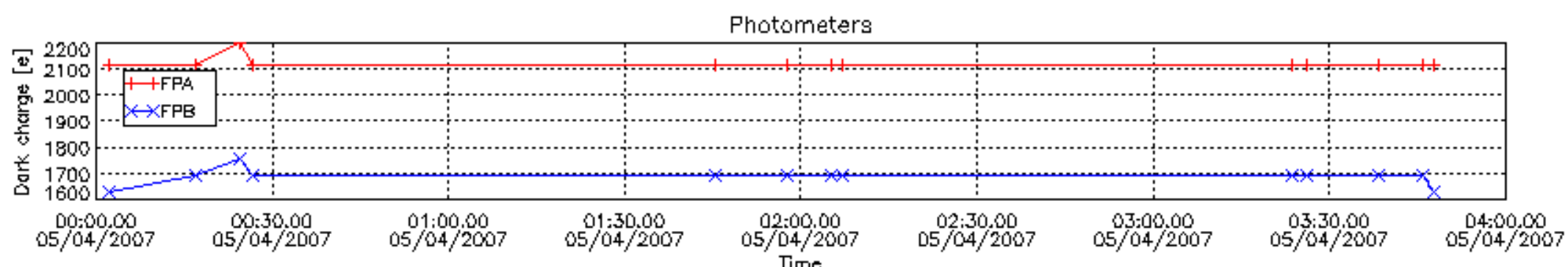
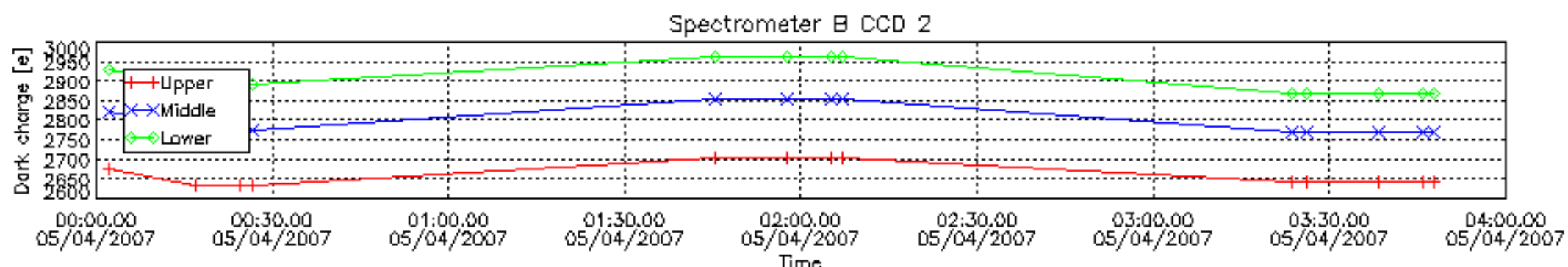
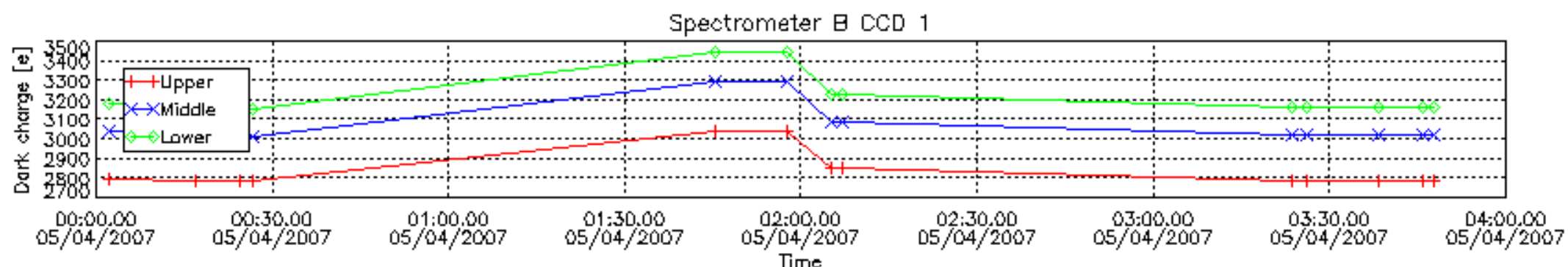
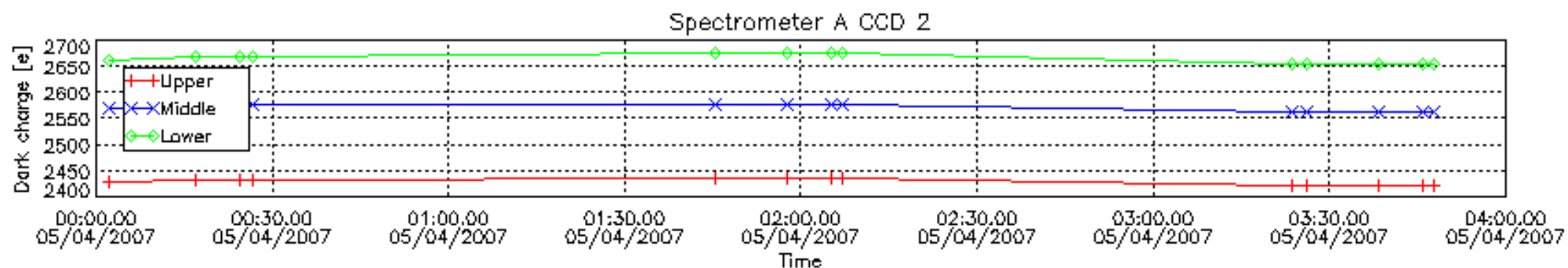
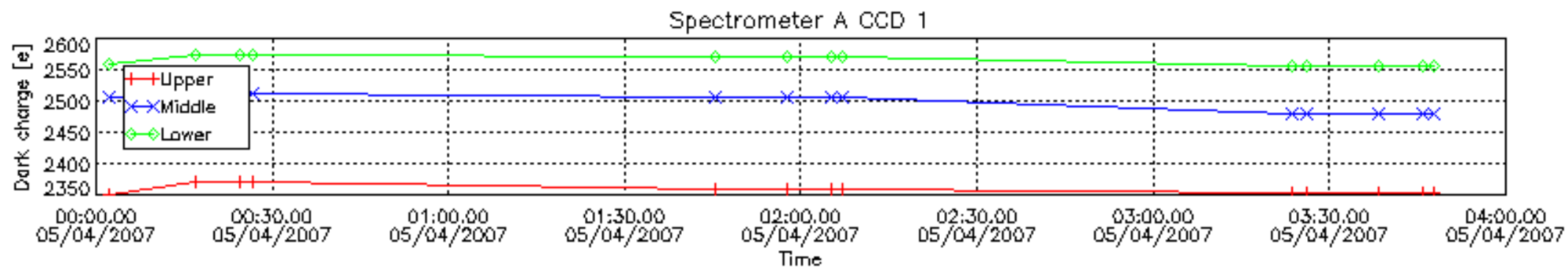
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

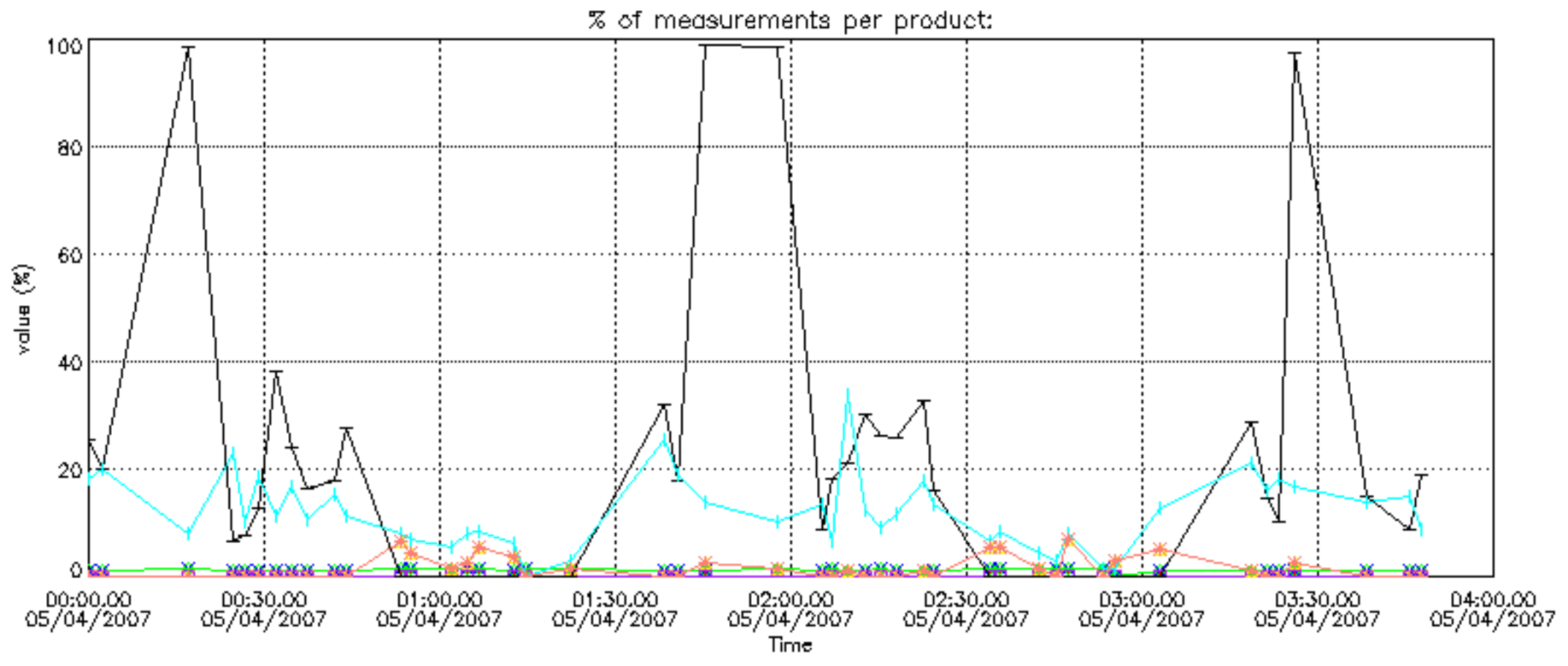
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-APR-2007 00:00:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070403_103751_20070402_000000_20100101_000000	1	05-APR-2007 00:00:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-APR-2007 00:00:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-APR-2007 00:00:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-APR-2007 00:00:04
ECMWF_FILE	AUX_ECF_AXNECM20070404_061111_20070404_210000_20070405_090000	1	05-APR-2007 00:00:04
ECMWF_FILE	AUX_ECF_AXNECM20070404_181111_20070405_030000_20070405_150000	41	05-APR-2007 03:03:02
OPTIONAL_ECMWF_FILE	MISSING	1	05-APR-2007 00:00:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070404_211321_000038252057_00029_26636_3107.N1	1	05-APR-2007 00:00:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070405_000322_000054192057_00030_26637_3109.N1	23	05-APR-2007 01:42:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070405_013900_000041442057_00031_26638_3110.N1	41	05-APR-2007 03:03:02



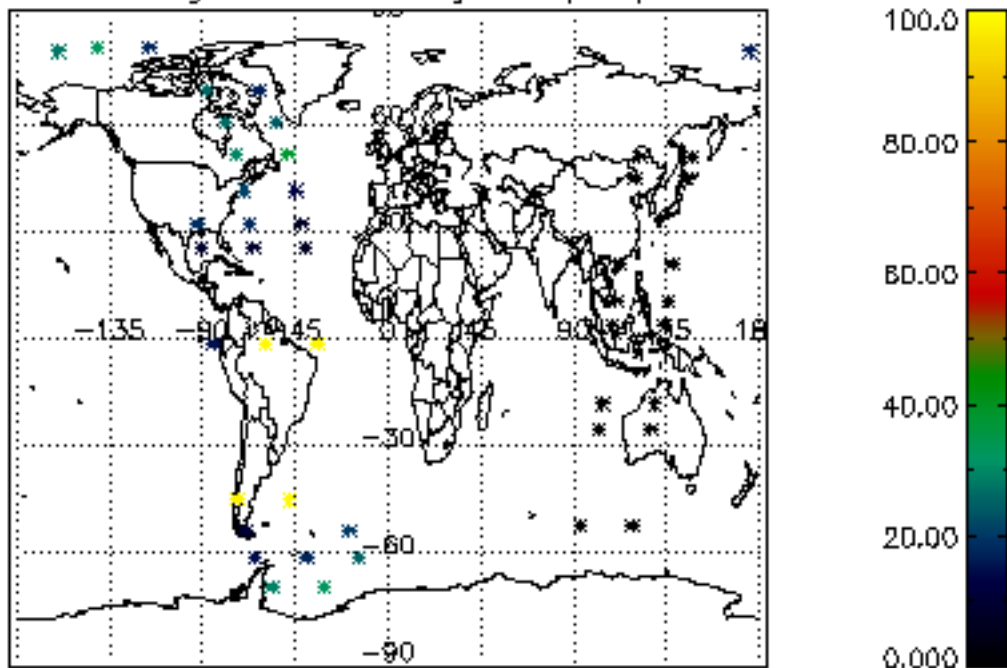




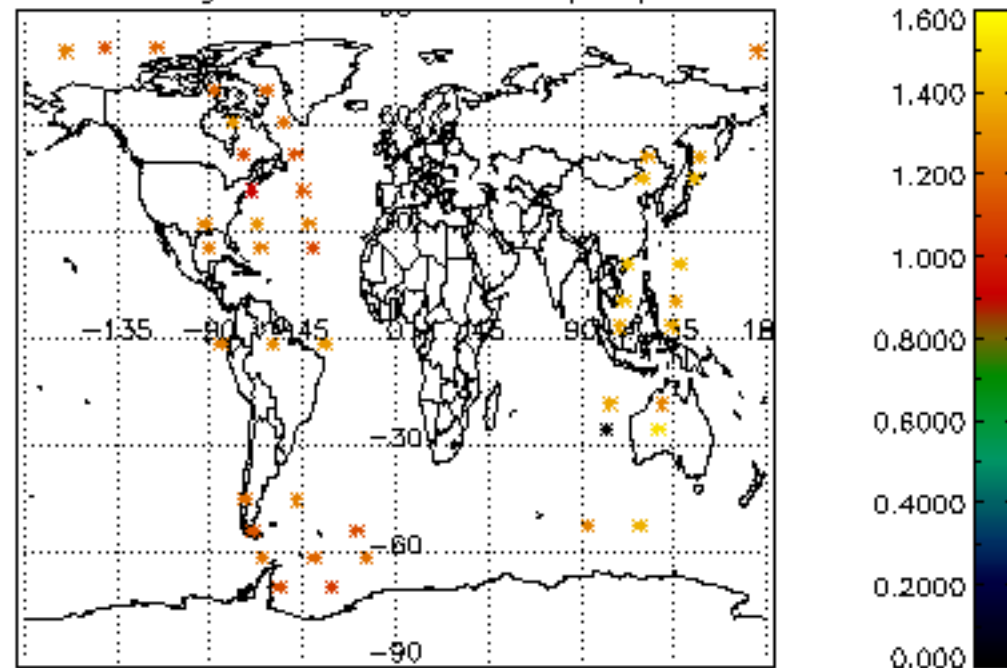




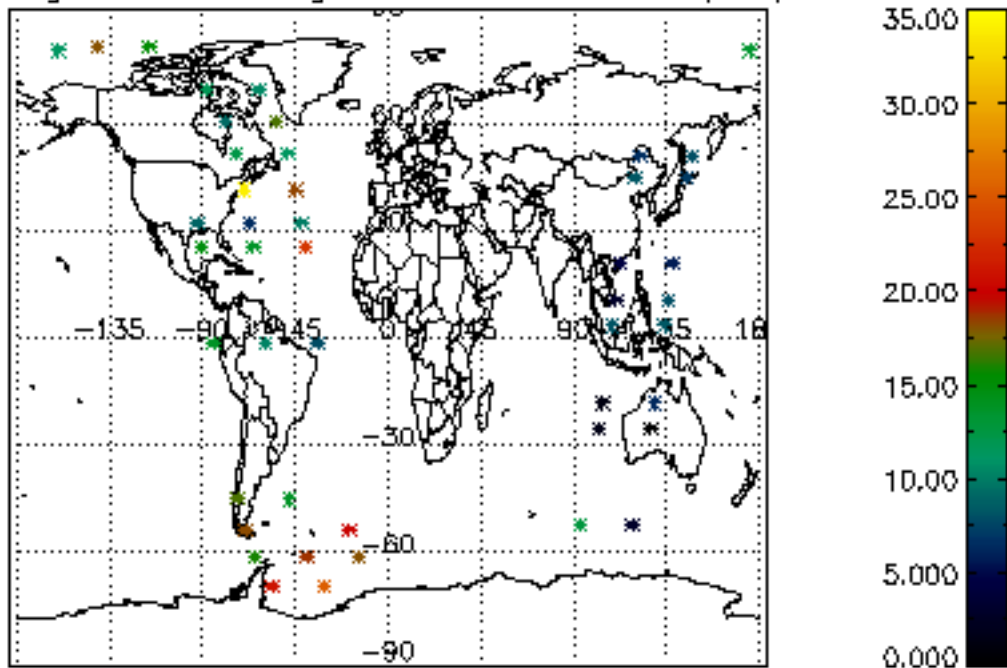
Percentage of cosmic ray hits per profile



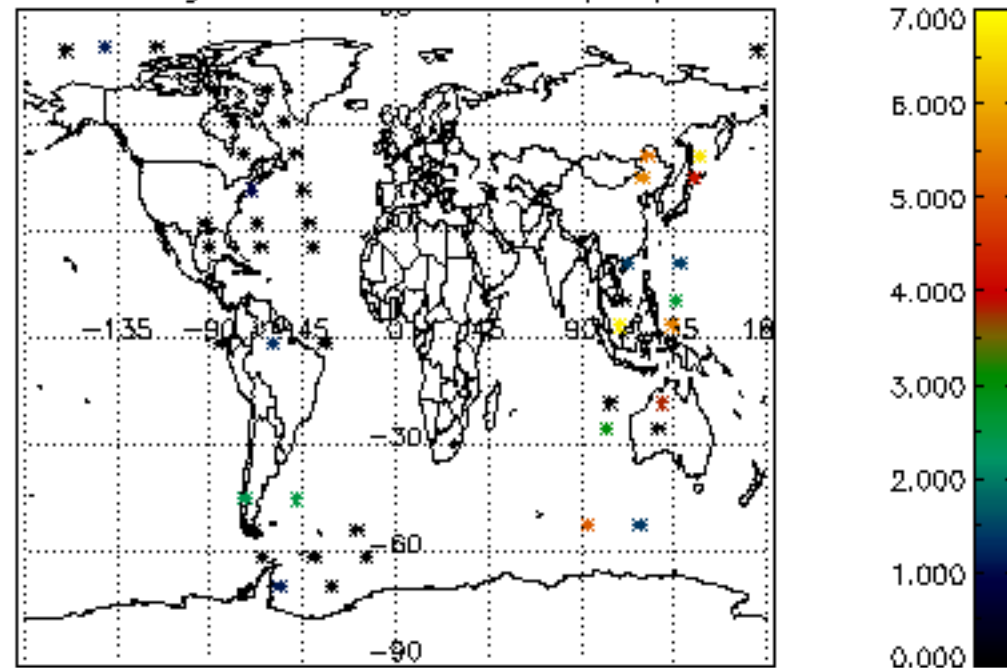
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

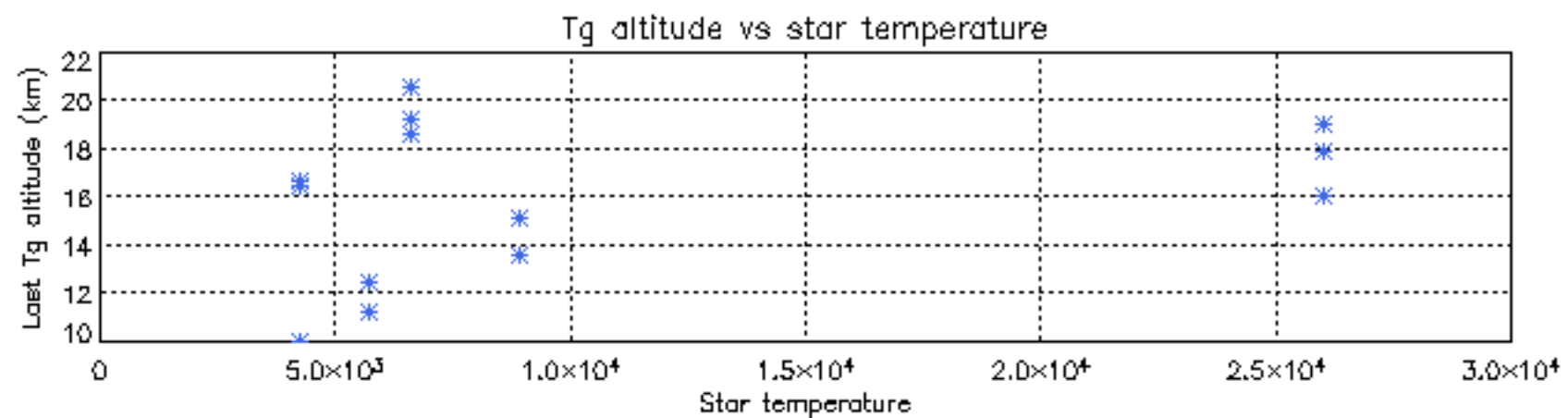
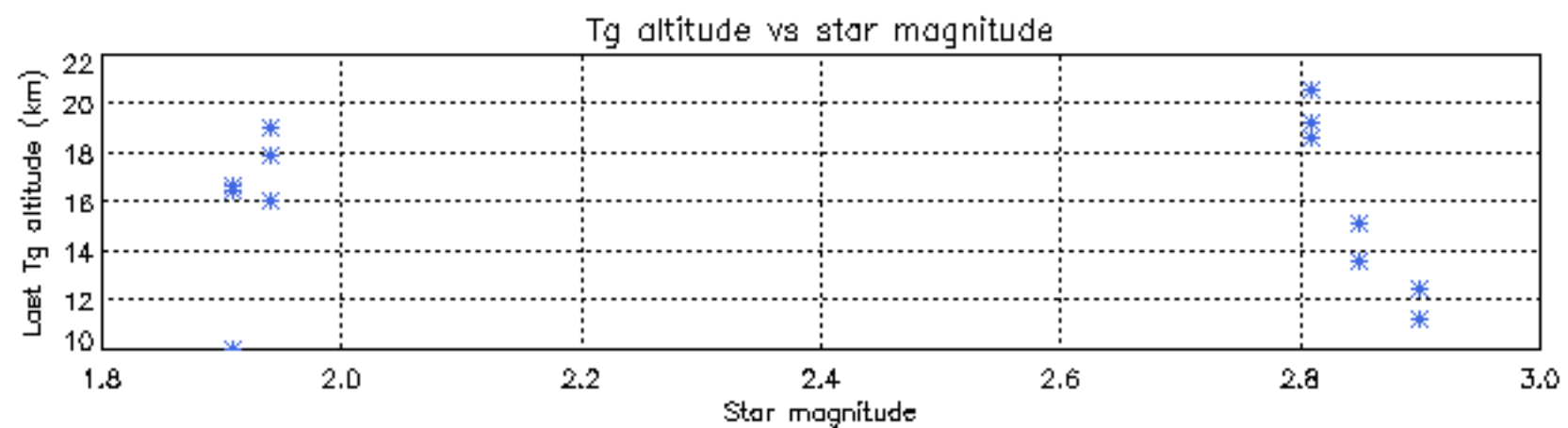
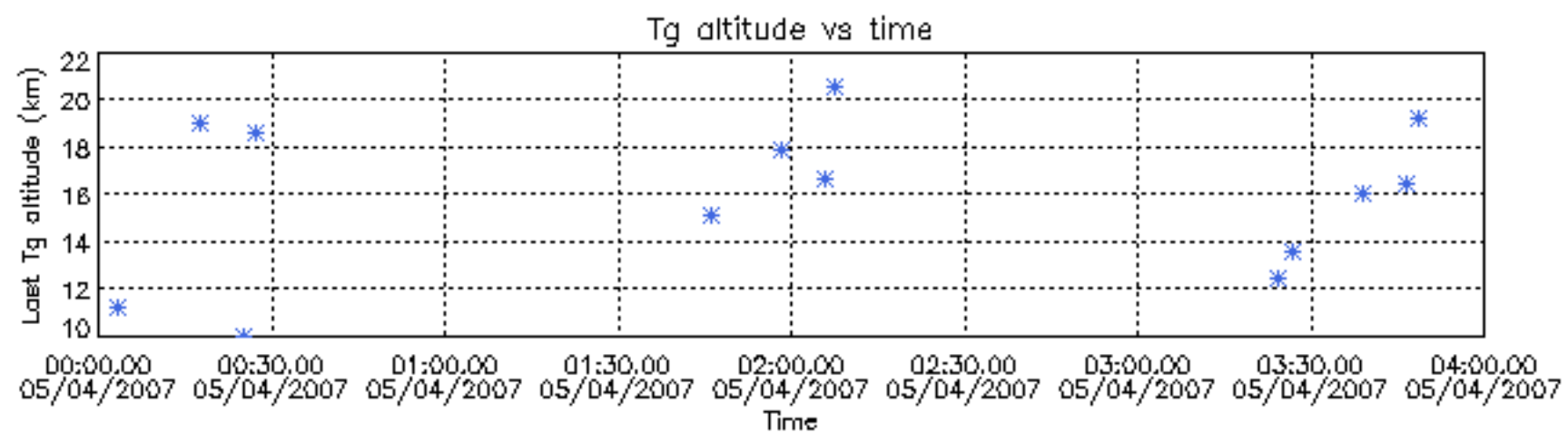


Percentage of saturation errors per profile

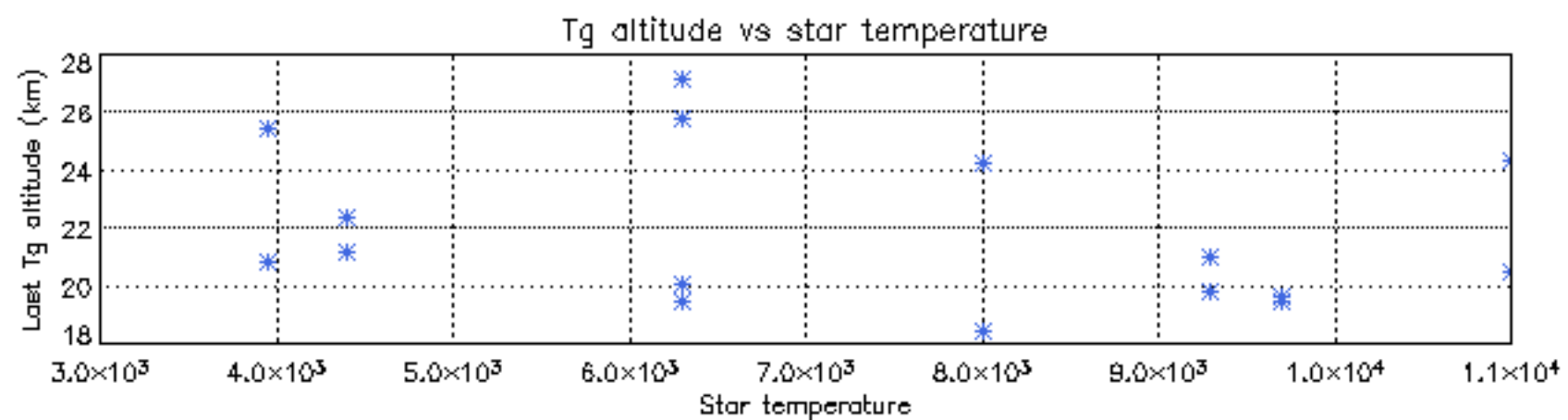
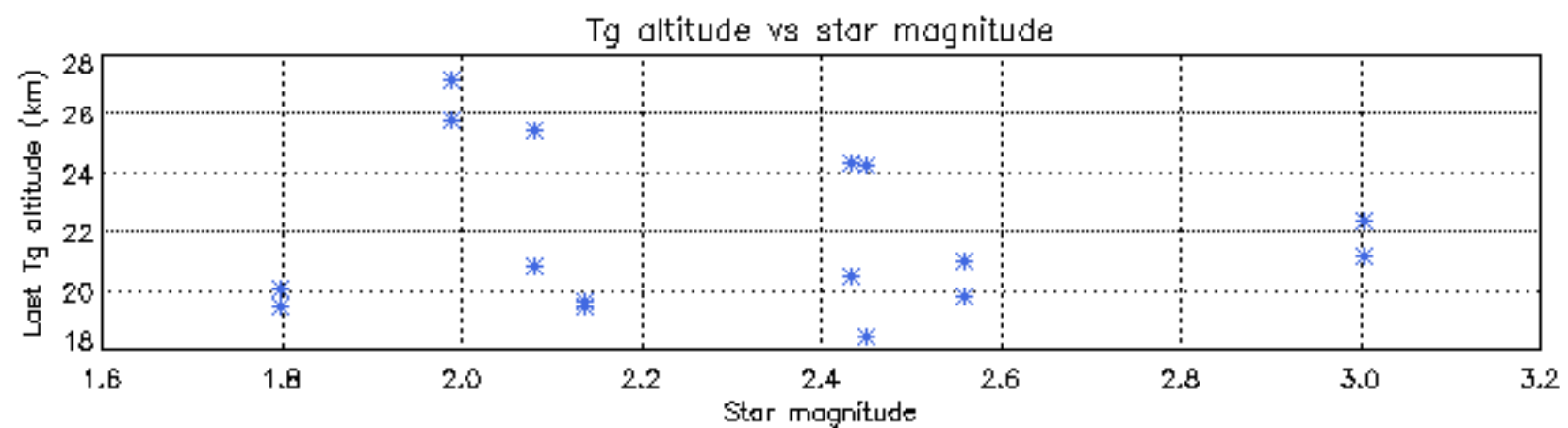
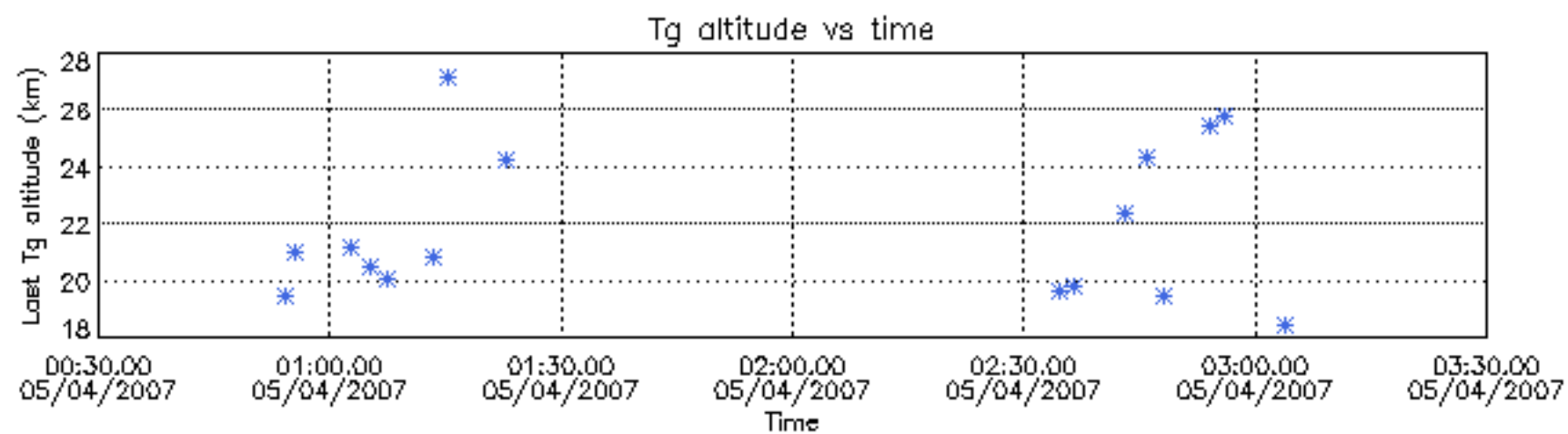




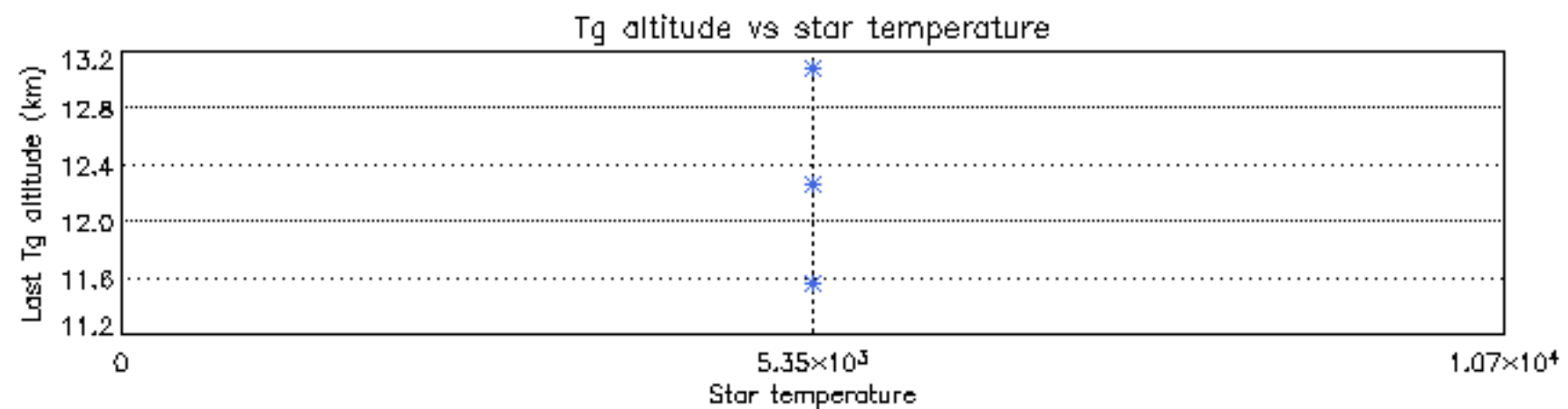
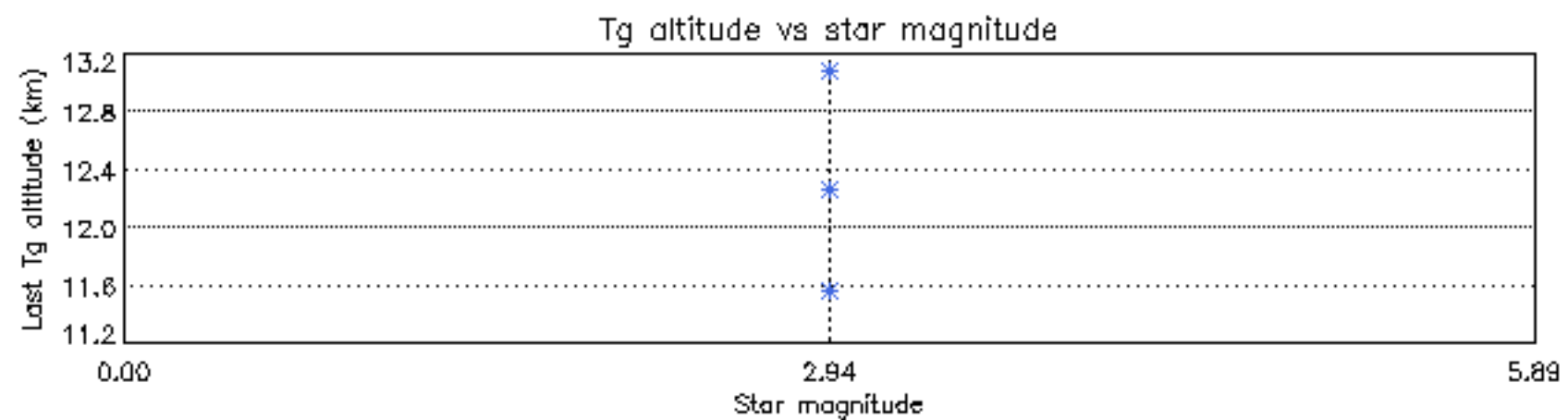
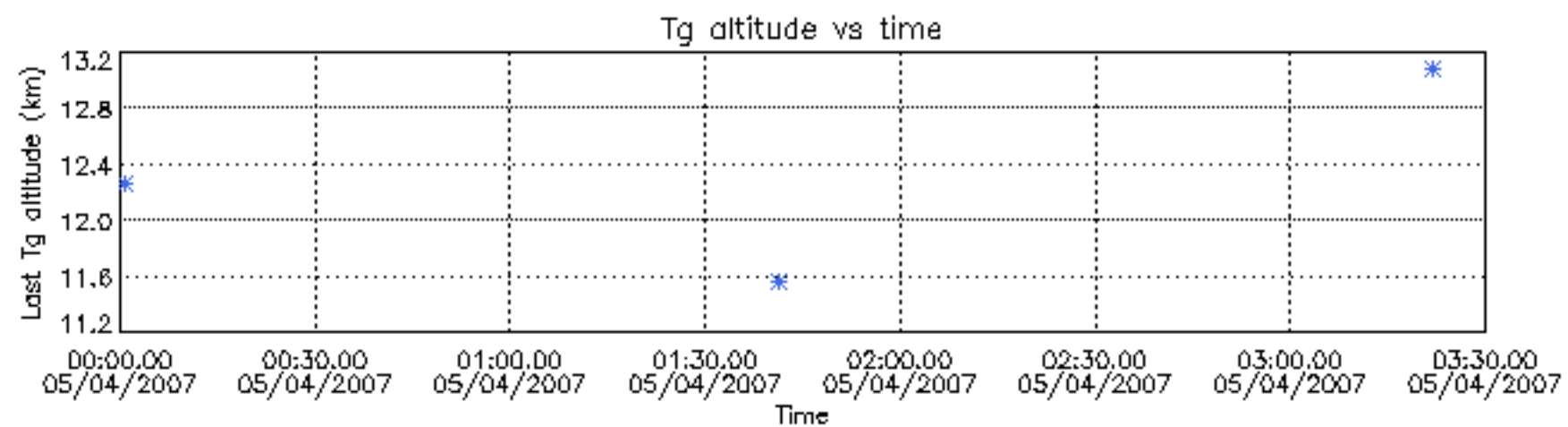
Tangent altitude at which the star is lost



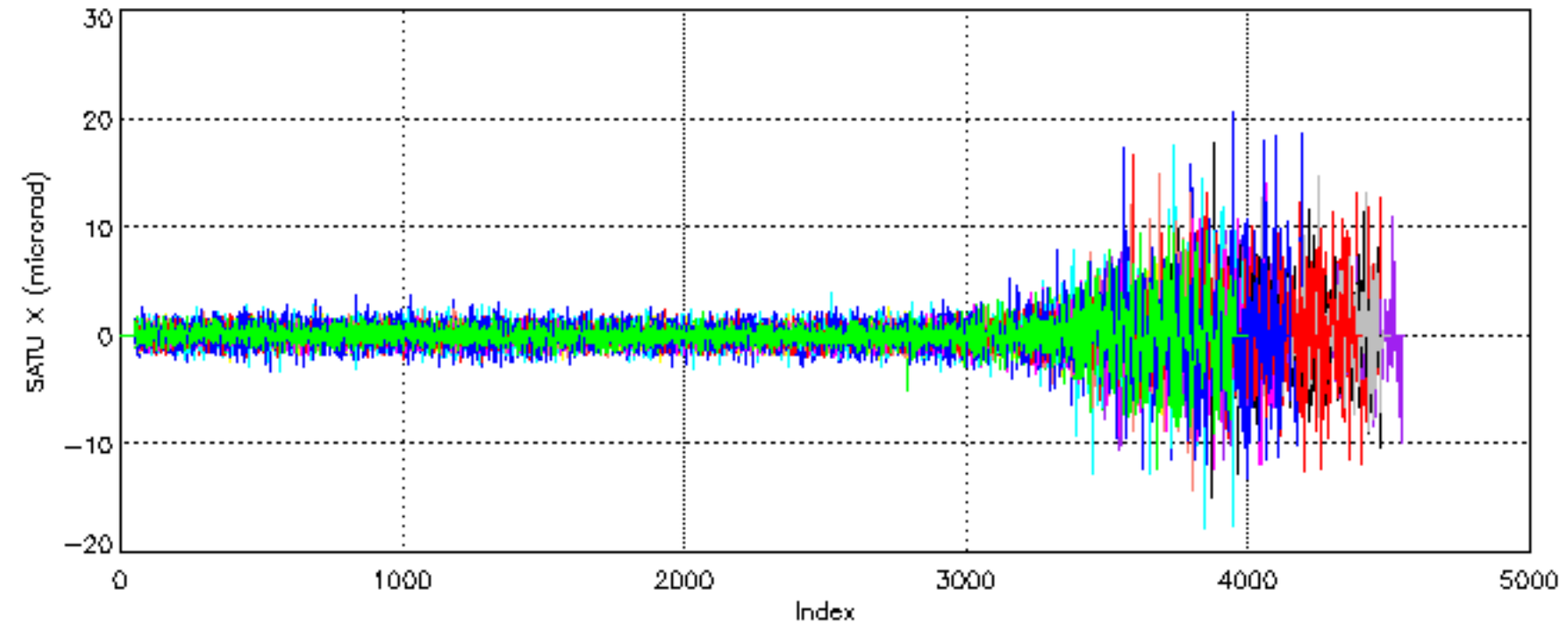
Tangent altitude at which the star is lost

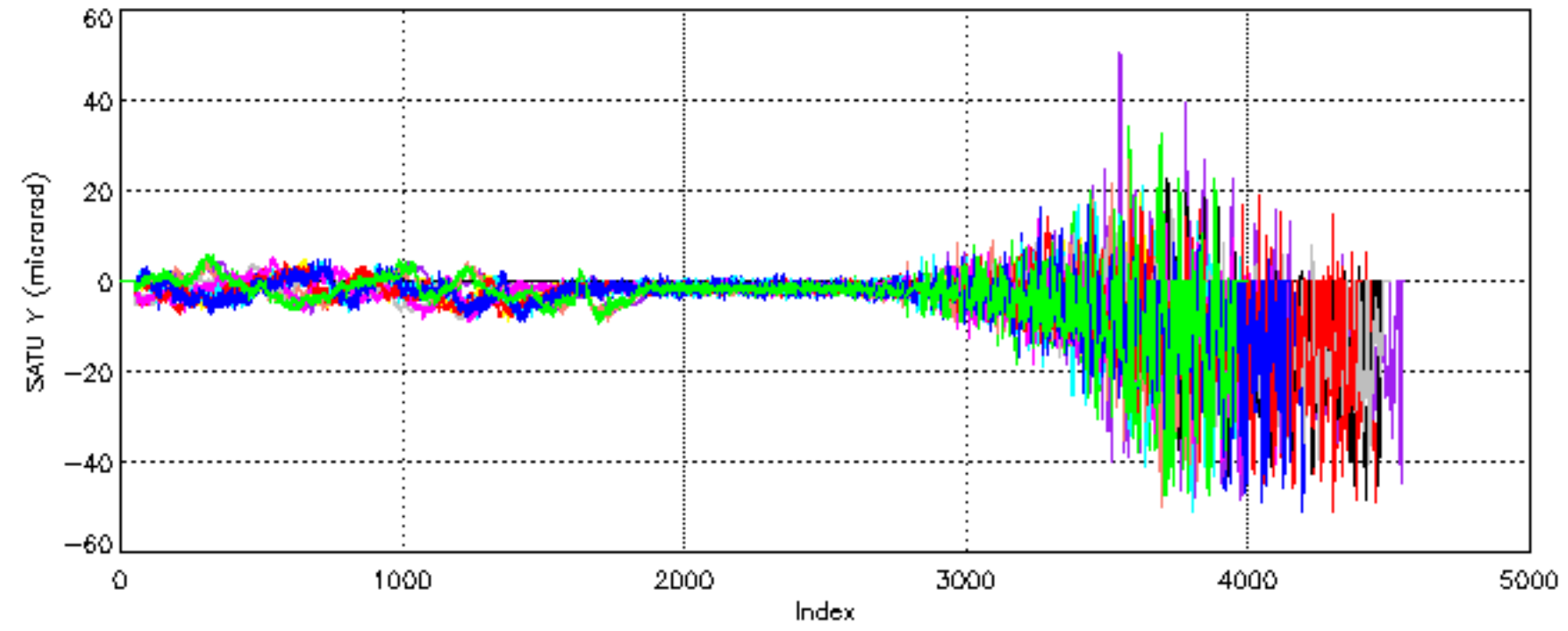


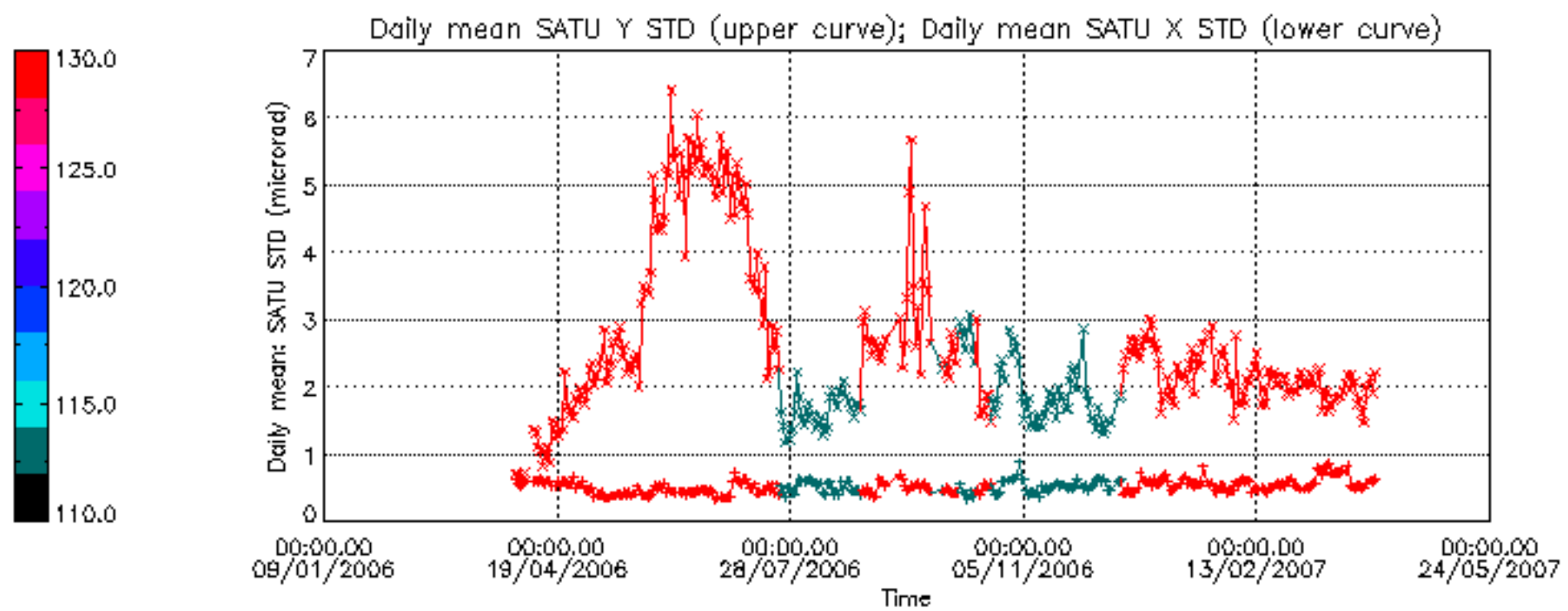
Tangent altitude at which the star is lost











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 2; -781.0; 01-APR-2007 00:30:19; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;26580  
 3; -173.2; 01-APR-2007 00:40:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26580  
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 7; 672.3; 01-APR-2007 00:54:33; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;26581  
 8; 841.3; 01-APR-2007 00:57:22; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;26581  
 9; 931.9; 01-APR-2007 00:58:52; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;26581  
 10; 1019.4; 01-APR-2007 01:00:20; Dark ; 37.5; 99; Del Cen ; 2.58; 26000;occ; 75; 0;26581  
 11; 1166.7; 01-APR-2007 01:02:47; Dark ; 44.0; 123; Tot Cen ; 2.75; 10200;occ; 88; 0;26581  
 12; 1459.3; 01-APR-2007 01:07:40; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;26581  
 13; 1577.7; 01-APR-2007 01:09:38; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;26581  
 14; 2161.6; 01-APR-2007 01:19:22; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;26581  
 15; 2257.3; 01-APR-2007 01:20:58; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;26581  
 16; 2666.9; 01-APR-2007 01:27:47; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;26581  
 17; 2849.8; 01-APR-2007 01:30:50; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;26581  
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 19; 3339.8; 01-APR-2007 01:39:00; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;26581  
 20; 3440.0; 01-APR-2007 01:40:40; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26581  
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 22; 4825.9; 01-APR-2007 02:03:46; Dark ; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;26581

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 2; -780.7; 01-APR-2007 02:10:55; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;26581  
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 7; 672.8; 01-APR-2007 02:35:09; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;26582  
 8; 841.6; 01-APR-2007 02:37:58; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;26582  
 9; 932.5; 01-APR-2007 02:39:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;26582  
 10; 1019.7; 01-APR-2007 02:40:56; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;26582  
 11; 1167.1; 01-APR-2007 02:43:23; Dark ; 43.5; 123; Tot Cen ; 2.75; 10200;occ; 87; 0;26582  
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 13; 1577.9; 01-APR-2007 02:50:14; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;26582  
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 16; 2666.9; 01-APR-2007 03:08:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;26582  
 17; 2849.7; 01-APR-2007 03:11:26; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;26582  
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 19; 3339.5; 01-APR-2007 03:19:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;26582  
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 9; 673.4; 01-APR-2007 04:15:45; Dark ; 50.0; 4; Alp1Cen ;-0.01; 5800;occ; 100; 0;26583  
 10; 842.2; 01-APR-2007 04:18:34; Dark ; 38.0; 20; Bet Cru ; 1.25; 30000;occ; 76; 0;26583  
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 12; 1020.2; 01-APR-2007 04:21:32; Dark ; 37.0; 99; Del Cen ; 2.58; 26000;occ; 74; 0;26583  
 13; 1167.7; 01-APR-2007 04:24:00; Dark ; 42.5; 123; Tot Cen ; 2.75; 10200;occ; 85; 0;26583  
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 21; 3339.4; 01-APR-2007 05:00:11; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;26583  
 22; 3440.2; 01-APR-2007 05:01:52; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26583

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3; -934.4; 01-APR-2007 05:29:34; Dark ; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;26583
4; -780.0; 01-APR-2007 05:32:08; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;26583
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11; 933.7; 01-APR-2007 06:00:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;26584
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13; 1168.0; 01-APR-2007 06:04:36; Dark ; 43.5; 123; Iot Cen ; 2.75; 10200;occ; 87; 0;26584
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17; 2257.5; 01-APR-2007 06:22:46; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;26584
18; 2666.9; 01-APR-2007 06:29:35; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;26584
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3; 1461.8; 01-APR-2007 21:14:53; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;26593
4; 1579.2; 01-APR-2007 21:16:51; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;26593
5; 2160.4; 01-APR-2007 21:26:32; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;26593
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6; 2666.3; 01-APR-2007 18:13:46; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;26591
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8; 2957.9; 01-APR-2007 18:18:37; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;26591
9; 3336.7; 01-APR-2007 18:24:56; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;26591
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16; 5867.4; 01-APR-2007 20:47:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26592
17; 5993.6; 01-APR-2007 20:49:49; Dark ; 36.5; 45; Alp Pav ; 1.94; 26000;occ; 73; 0;26592
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3; 1467.2; 03-APR-2007 20:11:44; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;26621
4; 1583.3; 03-APR-2007 20:13:40; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;26621
5; 2158.1; 03-APR-2007 20:23:15; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;26621

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5; 535.1; 03-APR-2007 23:17:24; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;26623  
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7; 862.0; 03-APR-2007 23:22:51; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;26623  
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11; 1583.5; 03-APR-2007 23:34:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;26623  
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14; 2664.8; 03-APR-2007 23:52:54; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;26623  
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9; 2956.7; 05-APR-2007 19:33:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;26649  
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17; 5891.9; 05-APR-2007 20:22:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26649  
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21; 6740.5; 05-APR-2007 20:36:23; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;26649  
22; 6914.6; 05-APR-2007 20:39:17; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;26649

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17; 3317.5; 06-APR-2007 02:21:44; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;26653  
18; 3442.0; 06-APR-2007 02:23:48; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;26653

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19; 2836.0; 06-APR-2007 03:54:18; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;26654  
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3; 1198.1; 06-APR-2007 20:12:59; Dark ; 41.5; 123; Tot Cen ; 2.75; 10200;occ; 83; 0;26664  
4; 1476.8; 06-APR-2007 20:17:38; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;26664  
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8; 2665.6; 06-APR-2007 20:37:27; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;26664  
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11; 3314.3; 06-APR-2007 20:48:15; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;26664  
12; 3442.6; 06-APR-2007 20:50:24; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;26664  
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7; 711.6; 06-APR-2007 21:45:29; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;26665  
8; 887.5; 06-APR-2007 21:48:25; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;26665  
9; 1039.3; 06-APR-2007 21:50:56; Dark ; 38.0; 64; Gam Cen ; 2.20; 10600;occ; 76; 0;26665



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14; 2261.1; 06-APR-2007 22:11:18; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;26665
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19; 3442.4; 06-APR-2007 22:31:00; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;26665
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6; 460.1; 13-APR-2007 09:37:01; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;26758  
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8; 748.1; 13-APR-2007 09:41:49; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;26758  
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3; 2601.1; 13-APR-2007 10:12:42; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;26758  
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7; 3442.1; 13-APR-2007 10:26:43; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;26758  
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22; 7528.3; 13-APR-2007 11:34:49; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;26758  
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3; 1874.6; 13-APR-2007 11:41:12; Bright; 38.5; 121; 29Gam Vir ; 2.74; 7200;occ; 77; 0;26759  
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6; 2822.2; 13-APR-2007 11:56:59; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;26759  
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8; 3283.8; 13-APR-2007 12:04:41; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;26759  
9; 3442.1; 13-APR-2007 12:07:19; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;26759  
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18; 6497.4; 13-APR-2007 12:58:14; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;26759  
19; 6637.8; 13-APR-2007 13:00:35; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;26759  
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4; 2108.4; 13-APR-2007 13:25:41; Bright; 41.0; 138; 47Eps Vir ; 2.83; 4700;occ; 82; 0;26760  
5; 2600.4; 13-APR-2007 13:33:53; Bright; 37.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 75; 0;26760  
6; 2822.2; 13-APR-2007 13:37:35; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;26760  
7; 2897.9; 13-APR-2007 13:38:51; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;26760  
8; 3283.7; 13-APR-2007 13:45:16; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;26760  
9; 3442.2; 13-APR-2007 13:47:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;26760  
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12; 4885.0; 13-APR-2007 14:11:58; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;26760  
13; 5032.9; 13-APR-2007 14:14:26; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;26760  
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16; 5944.4; 13-APR-2007 14:29:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26760  
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 18; 5804.1; 18-APR-2007 18:31:36; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;26834  
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6; 510.3; 19-APR-2007 01:26:22; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;26839  
7; 637.4; 19-APR-2007 01:28:29; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;26839  
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9; 74.9; 19-APR-2007 02:59:43; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;26840  
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19; 2097.7; 19-APR-2007 03:33:26; Bright; 38.0; 138; 47Eps Vir ; 2.83; 4700;occ; 76; 0;26840  
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23; 4483.2; 19-APR-2007 22:39:47; Bright; 37.5; 164; 44Eta Peg ; 2.95; 5400;occ; 75; 0;26851  
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 6; 1881.6; 22-APR-2007 20:21:34; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;26893  
 7; 2094.2; 22-APR-2007 20:25:07; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;26893  
 8; 2569.5; 22-APR-2007 20:33:02; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;26893  
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