

# GOMOS Daily Report 26-OCT-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	28OCT2007 06:23:10
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (26OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

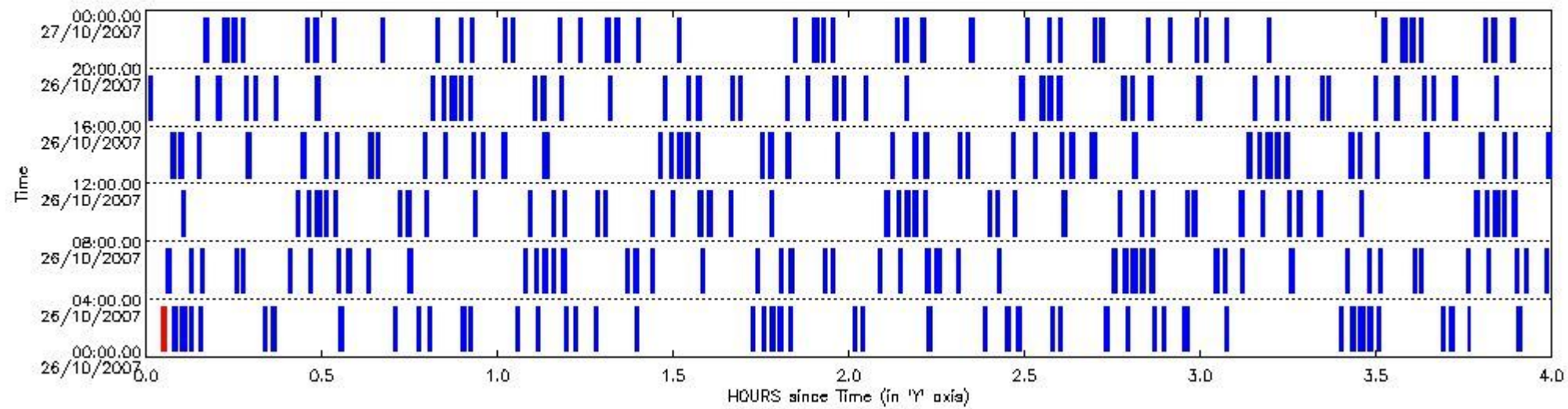
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

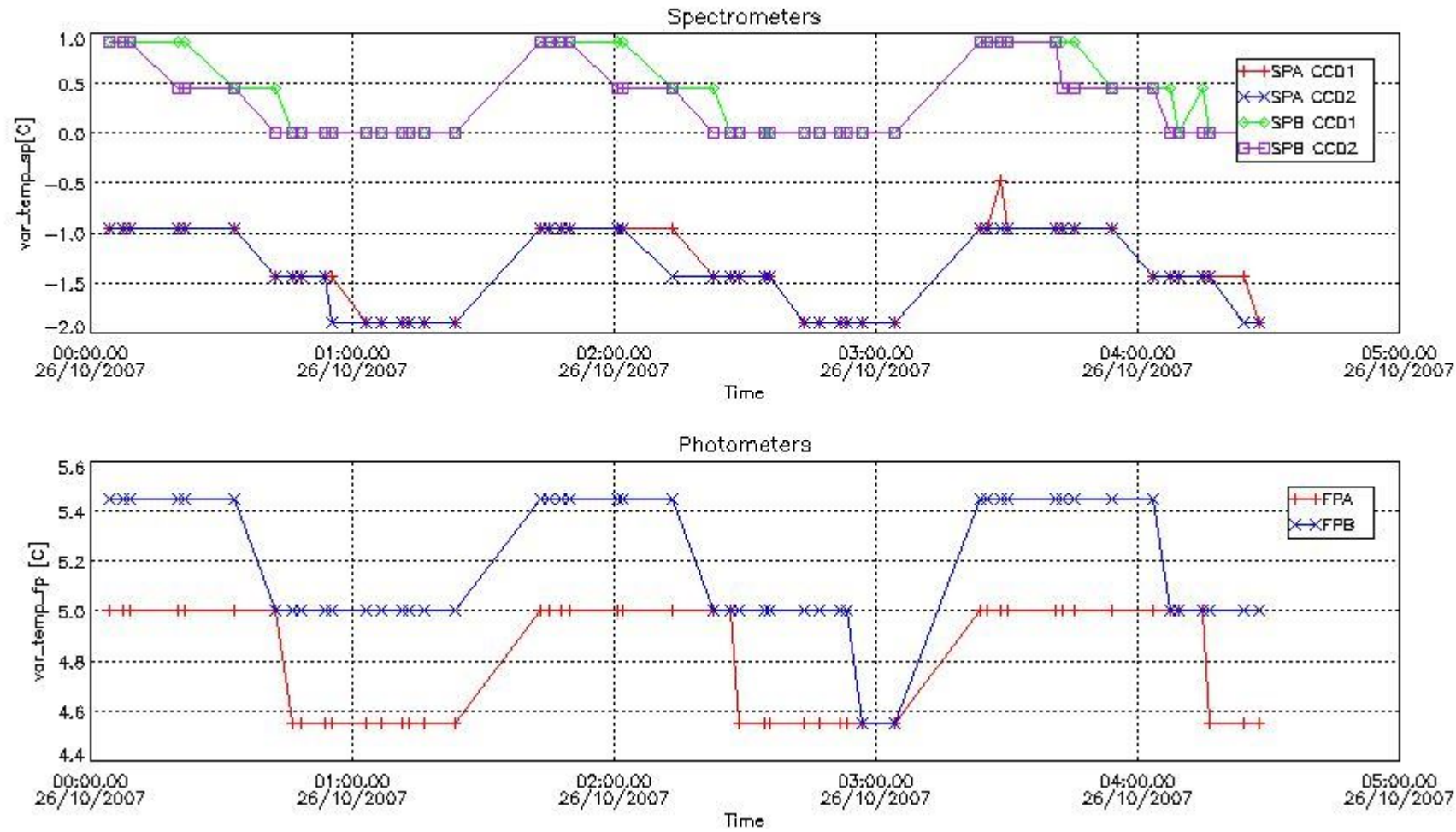
UTC start time	Star name	Star ID	Orbit
26-OCT-2007 00:02:31	MuVel	113	29557

### 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_1PNPDE20071026_000425_000000472062_00445_29557_9961.N1	26-OCT-2007 00:04:25	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	29557	No
2	GOM_TRA_1PNPDE20071026_000716_000000402062_00446_29558_9962.N1	26-OCT-2007 00:07:16	Dark	40.000	46	Del Vel	1.9540	10600.	80	29558	No
3	GOM_TRA_1PNPDE20071026_000900_000000382062_00446_29558_9963.N1	26-OCT-2007 00:09:00	Dark	38.000	29	Bet Car	1.6720	10200.	76	29558	No
4	GOM_TRA_1PNPDE20071026_002001_000000382062_00446_29558_9964.N1	26-OCT-2007 00:20:01	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29558	No
5	GOM_TRA_1PNPDE20071026_002125_000000392062_00446_29558_9965.N1	26-OCT-2007 00:21:25	Dark	38.500	9	Alp Eri	0.45300	24000.	77	29558	No
6	GOM_TRA_1PNPDE20071026_003249_000000432062_00446_29558_9966.N1	26-OCT-2007 00:32:49	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	29558	No
7	GOM_TRA_1PNPDE20071026_004218_000000362062_00446_29558_9967.N1	26-OCT-2007 00:42:18	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29558	No
8	GOM_TRA_1PNPDE20071026_004611_000000362062_00446_29558_9968.N1	26-OCT-2007 00:46:11	Bright	35.500	58	21Alp And	2.0730	11000.	71	29558	No
9	GOM_TRA_1PNPDE20071026_004803_000000392062_00446_29558_9969.N1	26-OCT-2007 00:48:03	Bright	39.000	53	43Bet And	2.0480	3300.0	78	29558	No
10	GOM_TRA_1PNPDE20071026_005350_000000372062_00446_29558_9970.N1	26-OCT-2007 00:53:50	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29558	No

11	GOM_TRA_1PNPDE20071026_005505_000000342062_00446_29558_9971.N1	26-OCT-2007 00:55:05	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	29558	No
12	GOM_TRA_1PNPDE20071026_010305_000000332062_00446_29558_9972.N1	26-OCT-2007 01:03:05	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29558	No
13	GOM_TRA_1PNPDE20071026_010636_000000342062_00446_29558_9973.N1	26-OCT-2007 01:06:36	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	29558	No
14	GOM_TRA_1PNPDE20071026_011118_000000372062_00446_29558_9974.N1	26-OCT-2007 01:11:18	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29558	No
15	GOM_TRA_1PNPDE20071026_011254_000000462062_00446_29558_9975.N1	26-OCT-2007 01:12:54	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	29558	No
16	GOM_TRA_1PNPDE20071026_011627_000000372062_00446_29558_9976.N1	26-OCT-2007 01:16:27	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	29558	No
17	GOM_TRA_1PNPDE20071026_012331_000000342062_00446_29558_9977.N1	26-OCT-2007 01:23:31	Bright	33.500	96	68Del Leo	2.5600	9300.0	67	29558	No
18	GOM_TRA_1PNPDE20071026_014310_000000392062_00446_29558_0117.N1	26-OCT-2007 01:43:10	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	29558	No
19	GOM_TRA_1PNPDE20071026_014502_000000482062_00446_29558_0118.N1	26-OCT-2007 01:45:02	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	29558	No
20	GOM_TRA_1PNPDE20071026_014753_000000402062_00447_29559_0119.N1	26-OCT-2007 01:47:53	Dark	39.500	46	Del Vel	1.9540	10600.	79	29559	No
21	GOM_TRA_1PNPDE20071026_014936_000000382062_00447_29559_0120.N1	26-OCT-2007 01:49:36	Dark	38.000	29	Bet Car	1.6720	10200.	76	29559	No
22	GOM_TRA_1PNPDE20071026_020037_000000372062_00447_29559_0121.N1	26-OCT-2007 02:00:37	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	29559	No
23	GOM_TRA_1PNPDE20071026_020201_000000382062_00447_29559_0122.N1	26-OCT-2007 02:02:01	Dark	37.500	9	Alp Eri	0.45300	24000.	75	29559	No
24	GOM_TRA_1PNPDE20071026_021325_000000452062_00447_29559_0123.N1	26-OCT-2007 02:13:25	Straylight	44.500	52	16Bet Cet	2.0370	4500.0	89	29559	No
25	GOM_TRA_1PNPDE20071026_022254_000000352062_00447_29559_0124.N1	26-OCT-2007 02:22:54	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29559	No
26	GOM_TRA_1PNPDE20071026_022647_000000372062_00447_29559_0125.N1	26-OCT-2007 02:26:47	Bright	36.500	58	21Alp And	2.0730	11000.	73	29559	No
27	GOM_TRA_1PNPDE20071026_022839_000000382062_00447_29559_0126.N1	26-OCT-2007 02:28:39	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29559	No
28	GOM_TRA_1PNPDE20071026_023425_000000362062_00447_29559_0127.N1	26-OCT-2007 02:34:25	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29559	No
29	GOM_TRA_1PNPDE20071026_023541_000000362062_00447_29559_0128.N1	26-OCT-2007 02:35:41	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29559	No
30	GOM_TRA_1PNPDE20071026_024340_000000362062_00447_29559_0129.N1	26-OCT-2007 02:43:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29559	No
31	GOM_TRA_1PNPDE20071026_024712_000000362062_00447_29559_0277.N1	26-OCT-2007 02:47:12	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29559	No
32	GOM_TRA_1PNPDE20071026_025154_000000382062_00447_29559_0278.N1	26-OCT-2007 02:51:54	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29559	No
33	GOM_TRA_1PNPDE20071026_025329_000000372062_00447_29559_0279.N1	26-OCT-2007 02:53:29	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29559	No
34	GOM_TRA_1PNPDE20071026_025703_000000542062_00447_29559_0280.N1	26-OCT-2007 02:57:03	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	29559	No
35	GOM_TRA_1PNPDE20071026_030407_000000352062_00447_29559_0281.N1	26-OCT-2007 03:04:07	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	29559	No
36	GOM_TRA_1PNPDE20071026_032346_000000382062_00447_29559_0282.N1	26-OCT-2007 03:23:46	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	29559	No
37	GOM_TRA_1PNPDE20071026_032539_000000522062_00447_29559_0283.N1	26-OCT-2007 03:25:39	Dark	52.000	65	Lam Vel	2.2040	4400.0	104	29559	No
38	GOM_TRA_1PNPDE20071026_032839_000000362062_00448_29560_0284.N1	26-OCT-2007 03:28:39	Dark	36.000	159	Ups Car	2.9200	7200.0	72	29560	No
39	GOM_TRA_1PNPDE20071026_033013_000000372062_00448_29560_0285.N1	26-OCT-2007 03:30:13	Dark	37.000	29	Bet Car	1.6720	10200.	74	29560	No
40	GOM_TRA_1PNPDE20071026_034113_000000372062_00448_29560_0286.N1	26-OCT-2007 03:41:13	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	29560	No
41	GOM_TRA_1PNPDE20071026_034238_000000422062_00448_29560_0287.N1	26-OCT-2007 03:42:38	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29560	No
42	GOM_TRA_1PNPDE20071026_034540_000000252062_00448_29560_0288.N1	26-OCT-2007 03:45:40	Straylight	25.000	157	The1Eri	2.9060	9300.0	50	29560	No
43	GOM_TRA_1PNPDE20071026_035401_000000442062_00448_29560_0289.N1	26-OCT-2007 03:54:01	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	29560	No
44	GOM_TRA_1PNPDE20071026_040330_000000362062_00448_29560_0290.N1	26-OCT-2007 04:03:30	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29560	No
45	GOM_TRA_1PNPDE20071026_040723_000000362062_00448_29560_0291.N1	26-OCT-2007 04:07:23	Bright	35.500	58	21Alp And	2.0730	11000.	71	29560	No
46	GOM_TRA_1PNPDE20071026_040914_000000362062_00448_29560_0292.N1	26-OCT-2007 04:09:14	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29560	No
47	GOM_TRA_1PNPDE20071026_041502_000000372062_00448_29560_0293.N1	26-OCT-2007 04:15:02	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29560	No
48	GOM_TRA_1PNPDE20071026_041617_000000362062_00448_29560_0294.N1	26-OCT-2007 04:16:17	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29560	No
49	GOM_TRA_1PNPDE20071026_042417_000000332062_00448_29560_0295.N1	26-OCT-2007 04:24:17	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29560	No
50	GOM_TRA_1PNPDE20071026_042749_000000352062_00448_29560_0296.N1	26-OCT-2007 04:27:49	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	29560	No

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



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

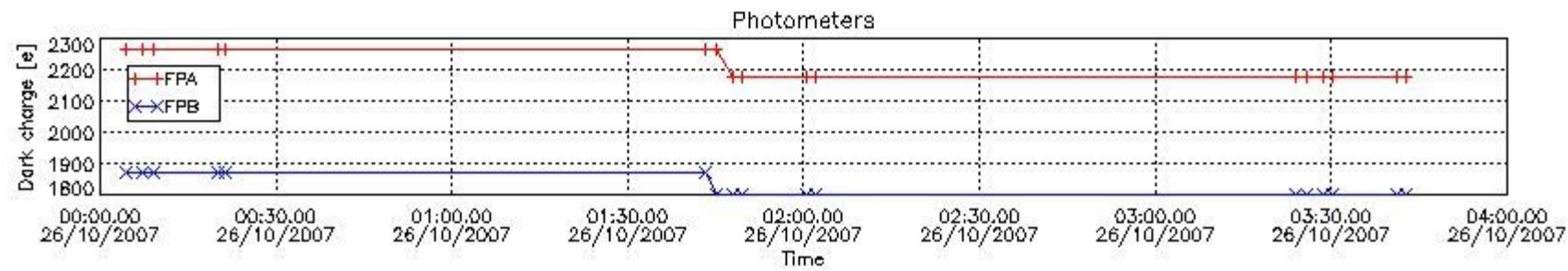
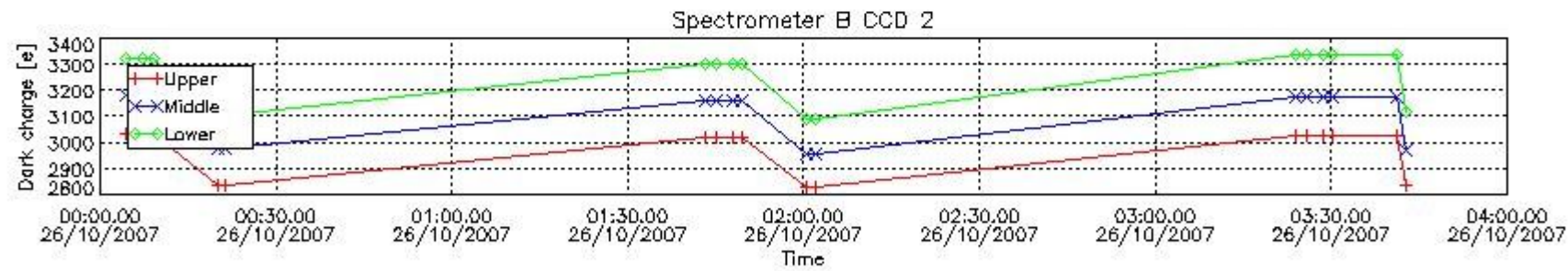
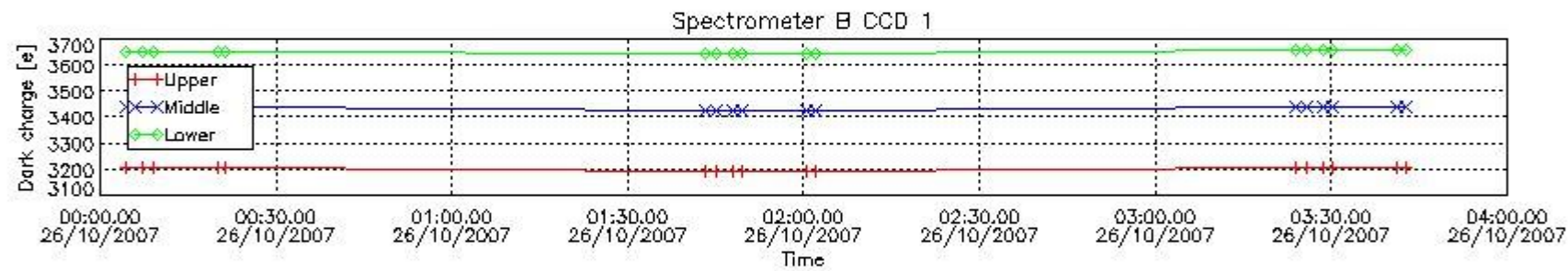
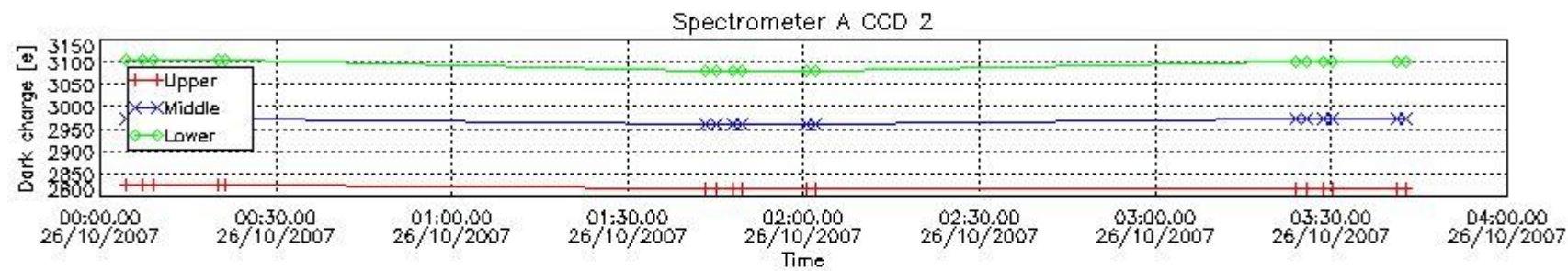
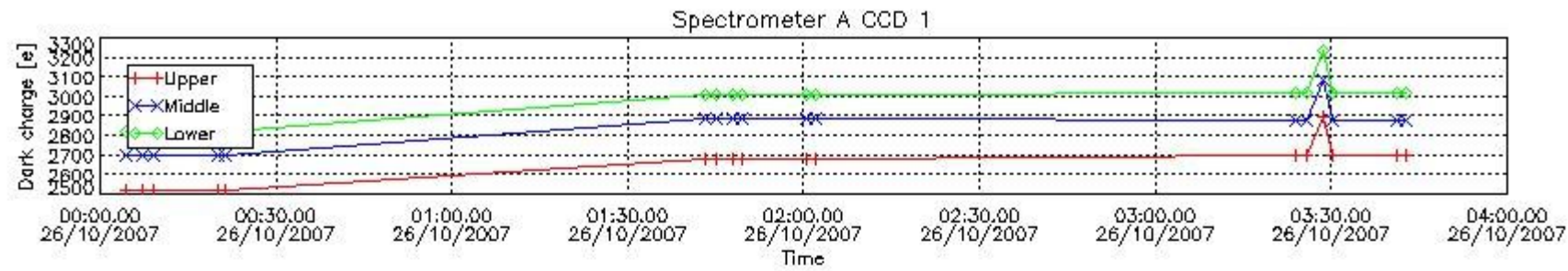
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





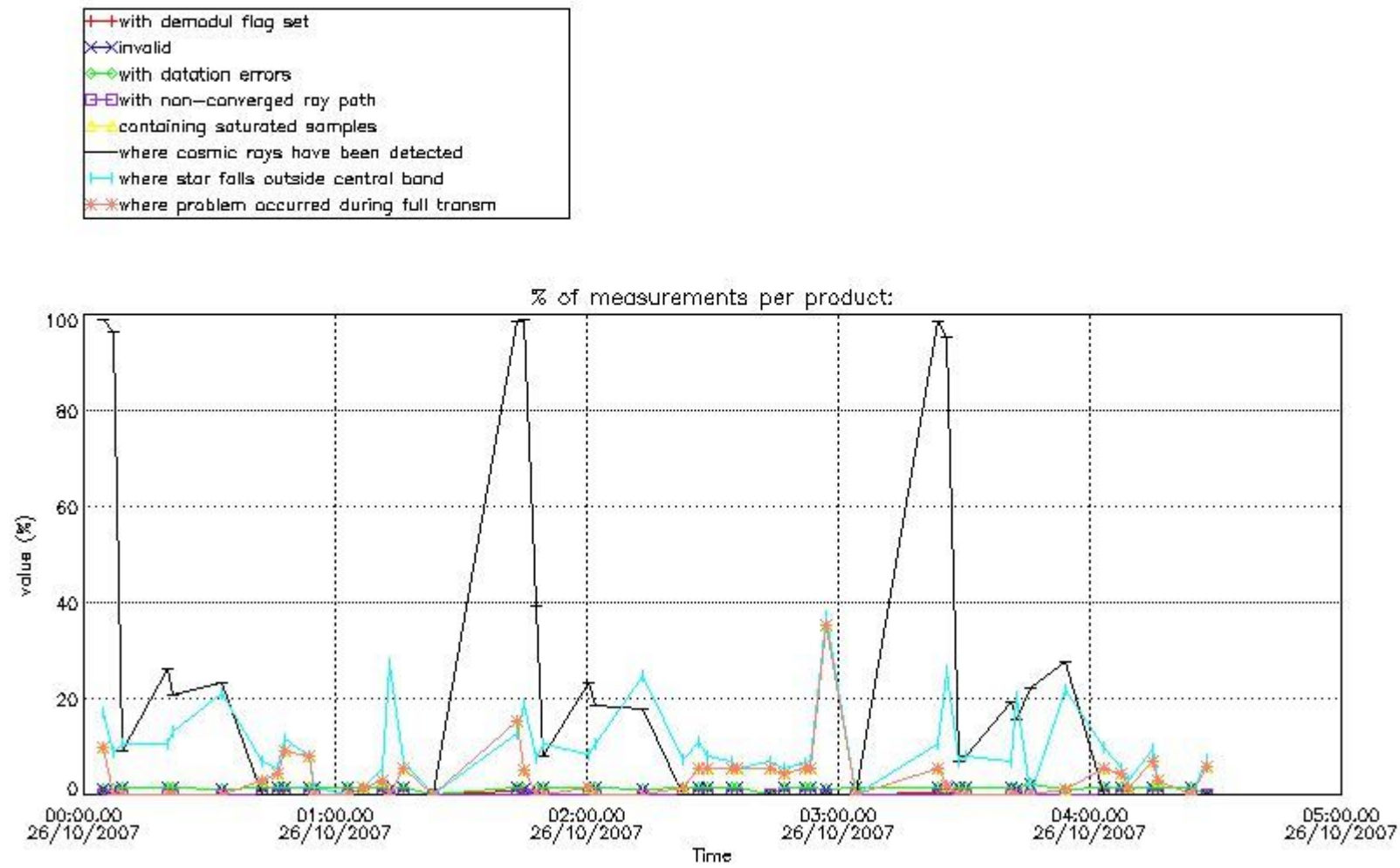
## 5. Demodulation flag and quality information monitoring

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:

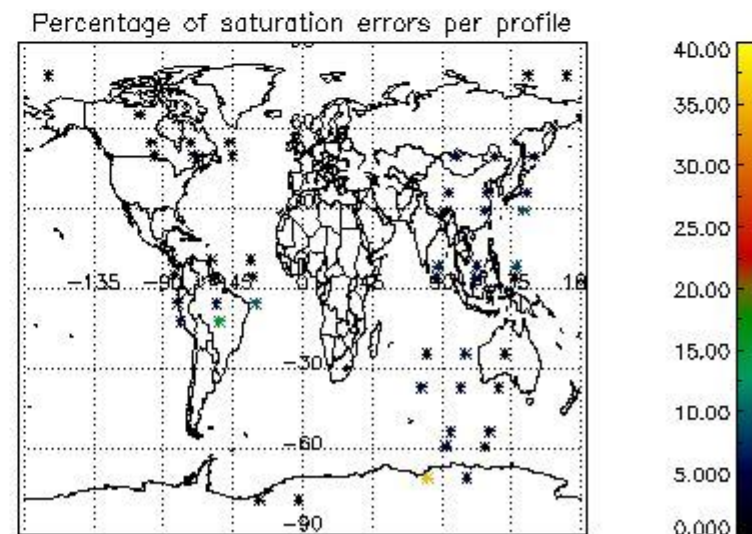
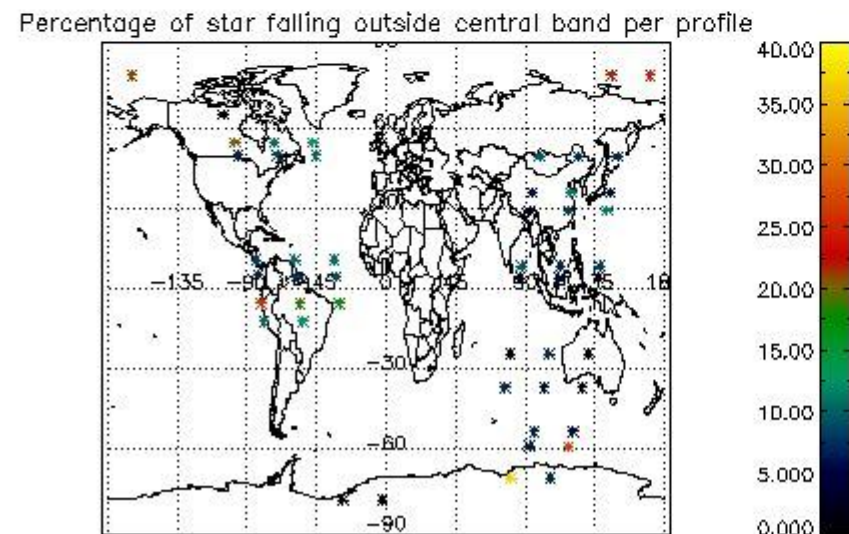
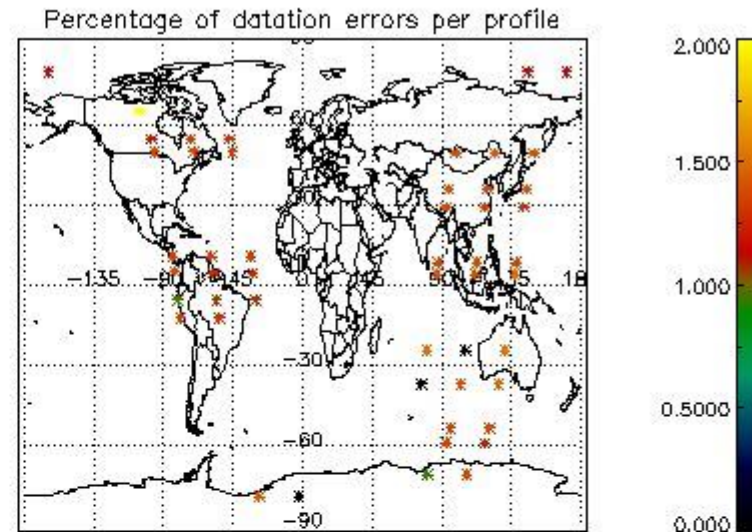
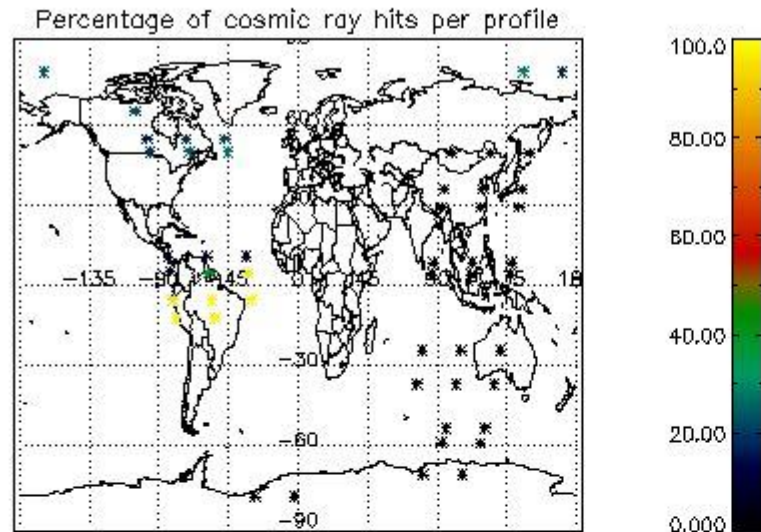
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





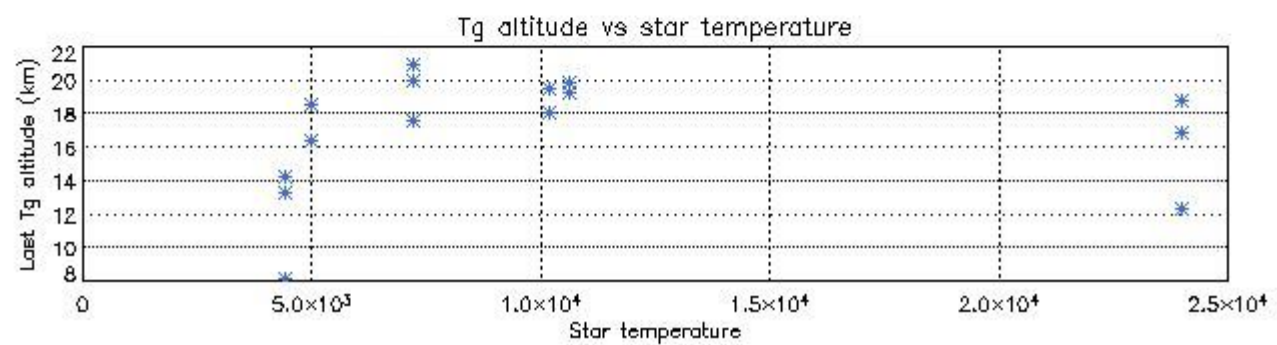
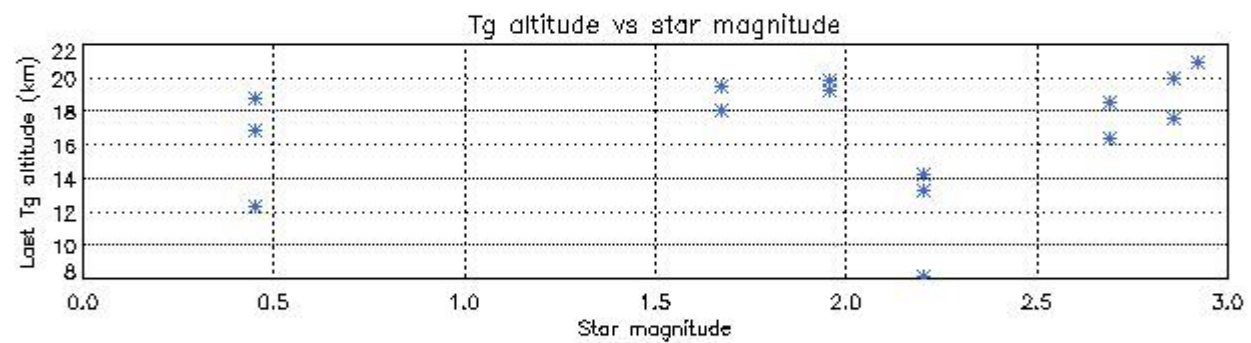
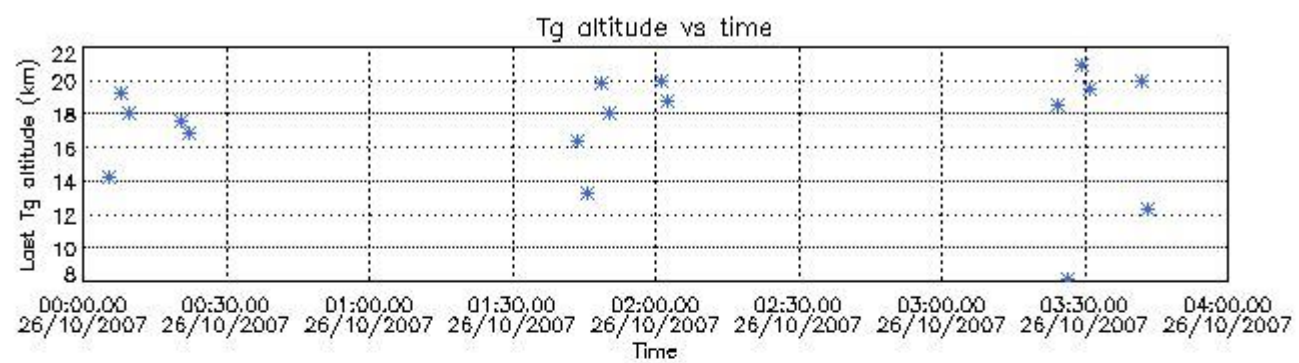
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.160	20.993	NaN
St. deviation:	3.3850	4.7552	NaN
Maximum:	20.935	28.685	NaN
Minimum:	8.1162	4.3309	NaN
Number of data:	17.000	29.000	NaN

### 6.2 Plot for DARK limb products

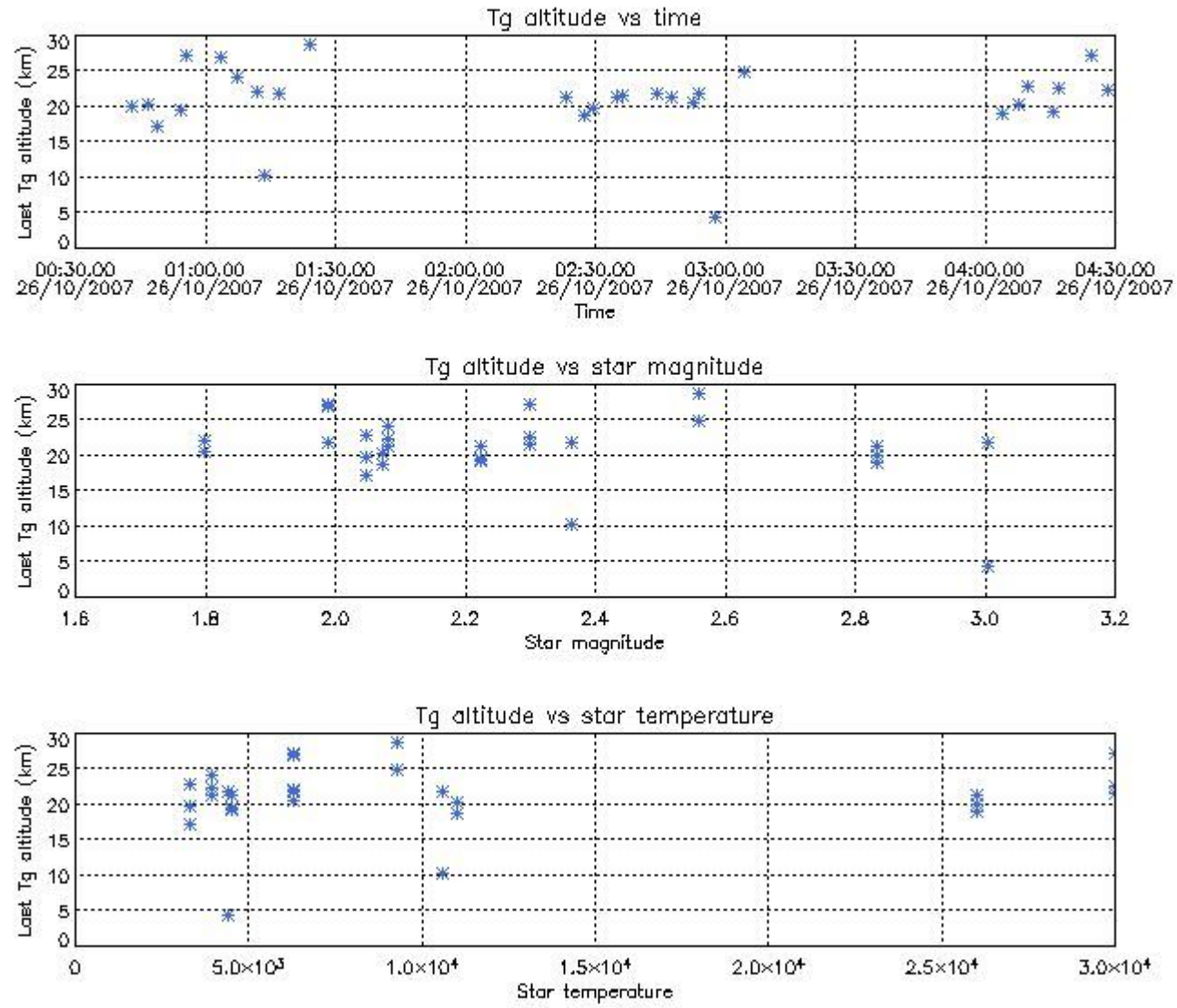
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

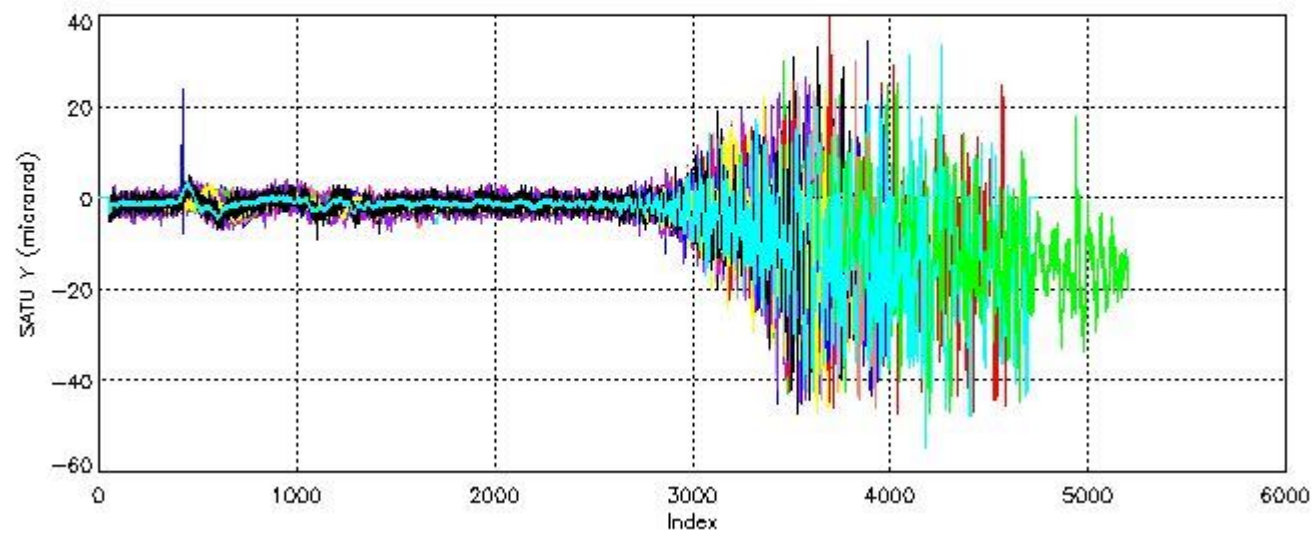
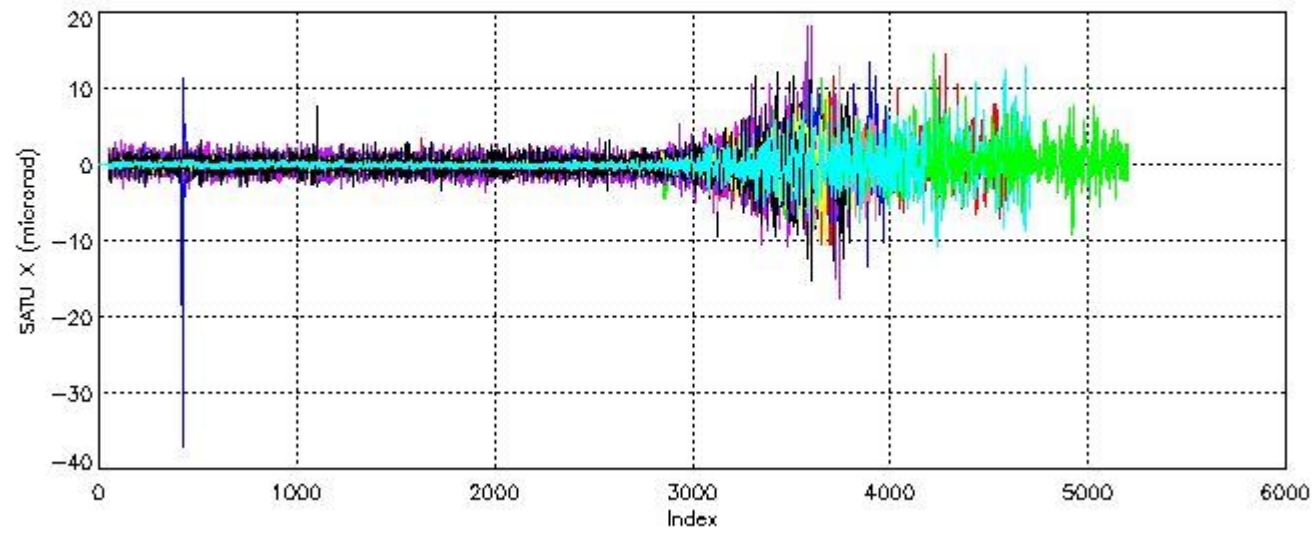


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.029423	-1.2937	0.069509	-1.3316
St. deviation:	0.56160	1.3943	0.69055	1.5364
Maximum:	11.300	23.600	7.7000	6.9000
Minimum:	-37.200	-7.7000	-5.2000	-9.0000

Number of data:	15100.	15100.	23800.	23800.
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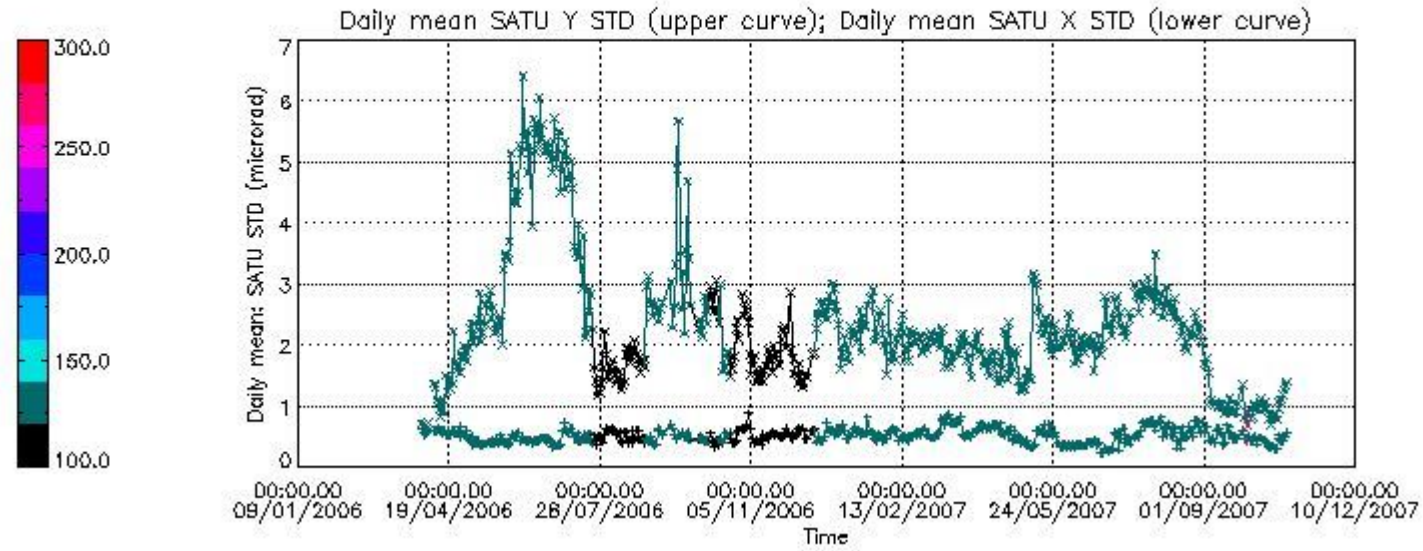
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

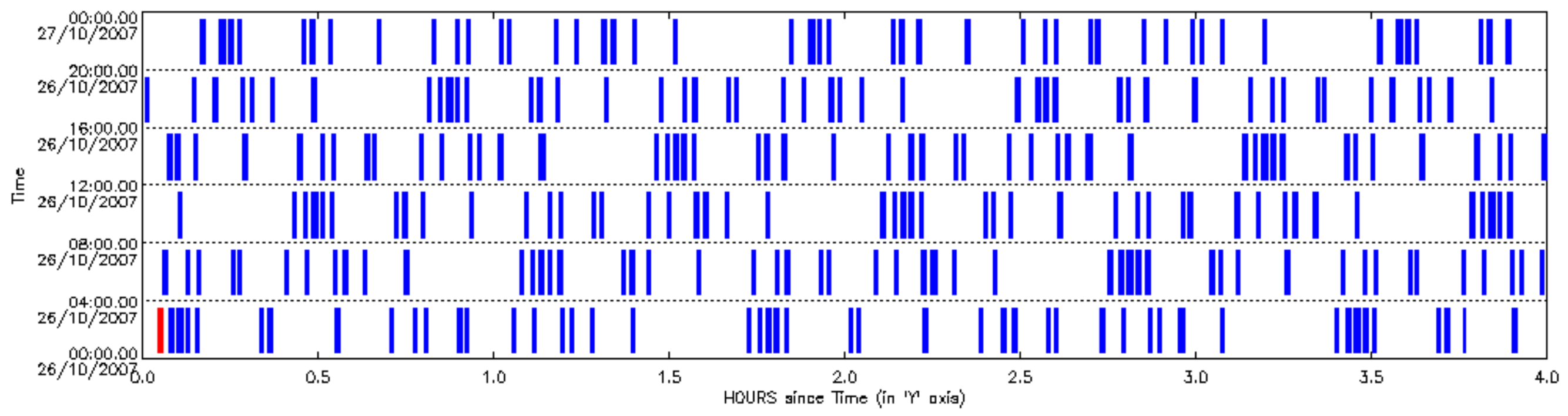


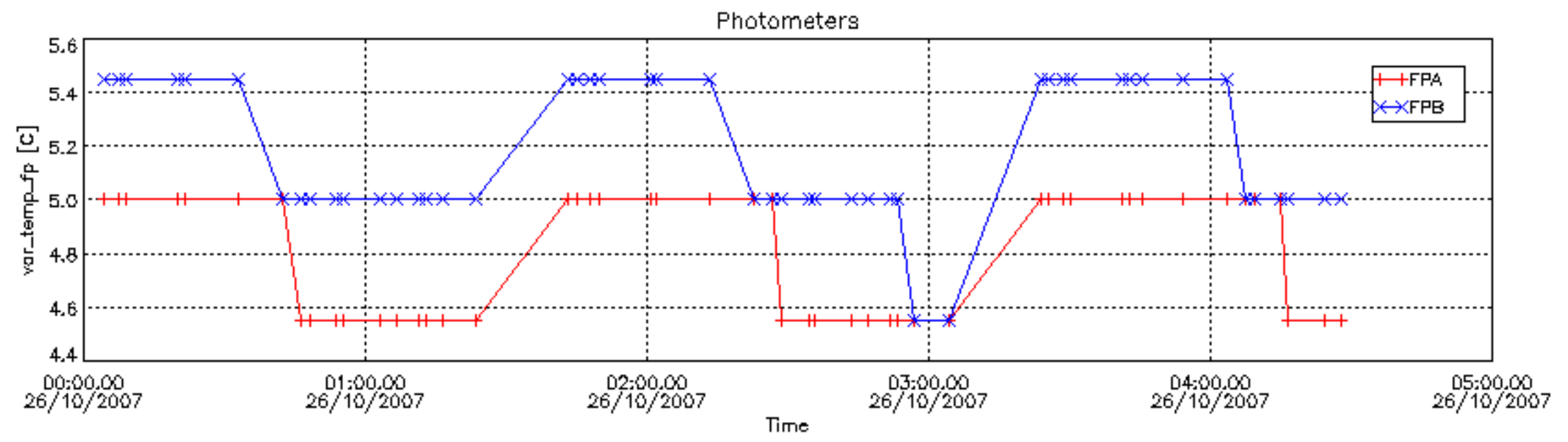
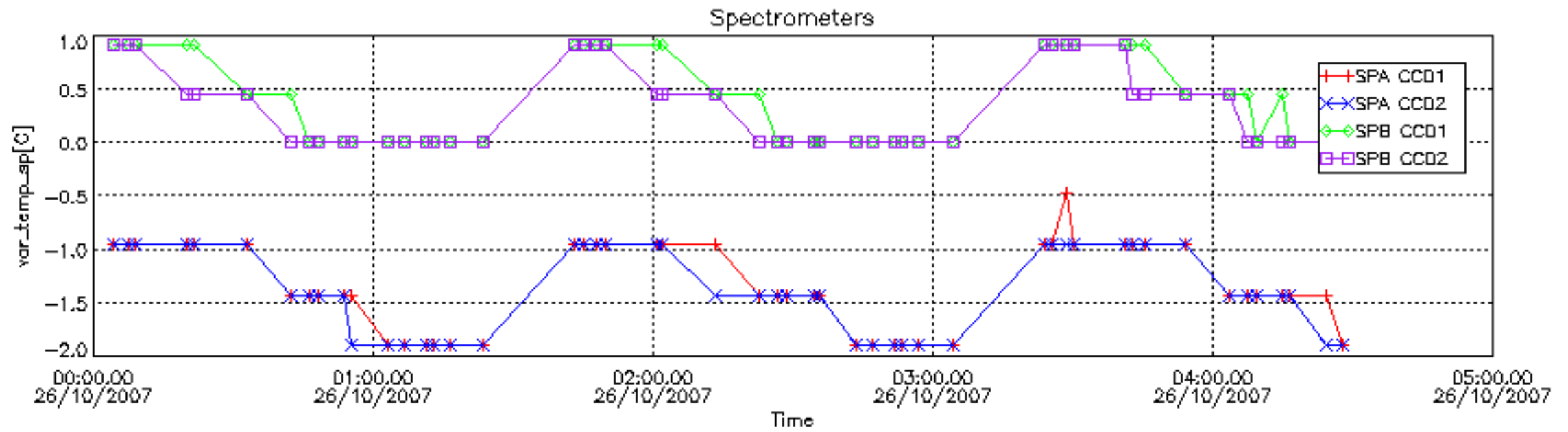
### 8. Auxiliary Data Files used for the production reported in section 2.4

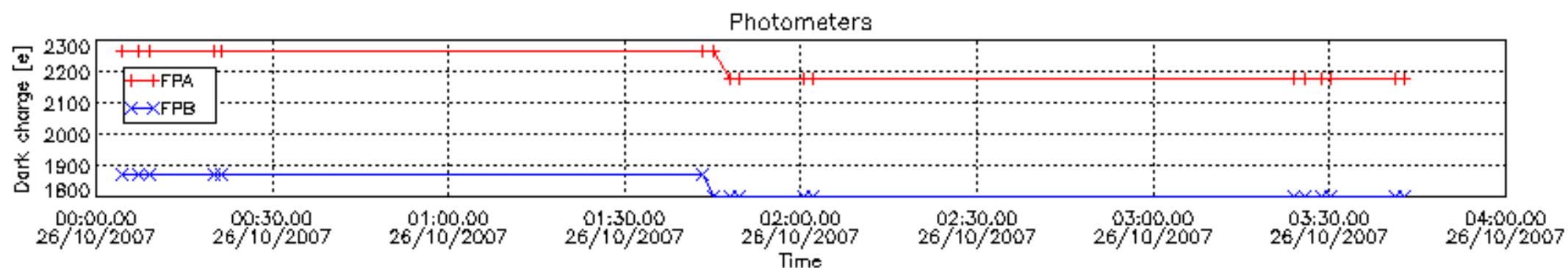
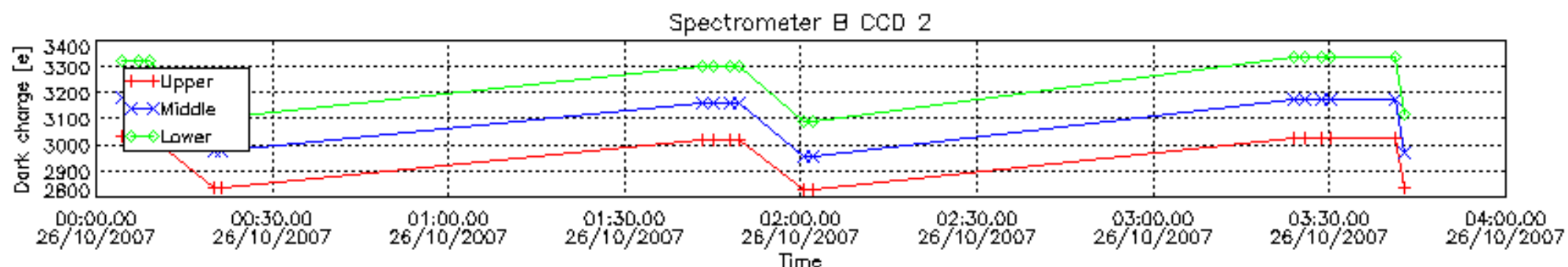
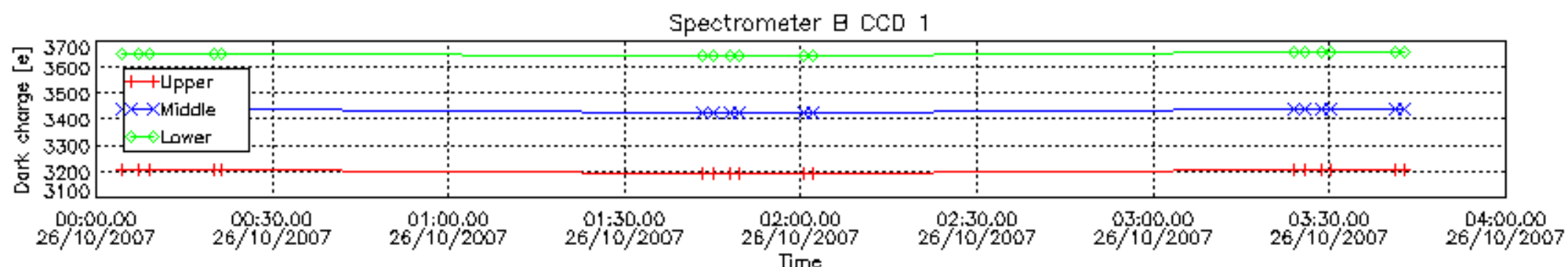
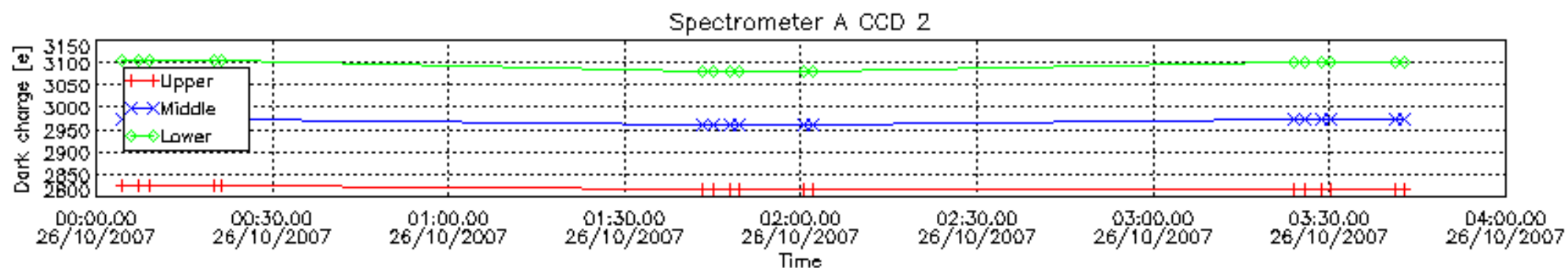
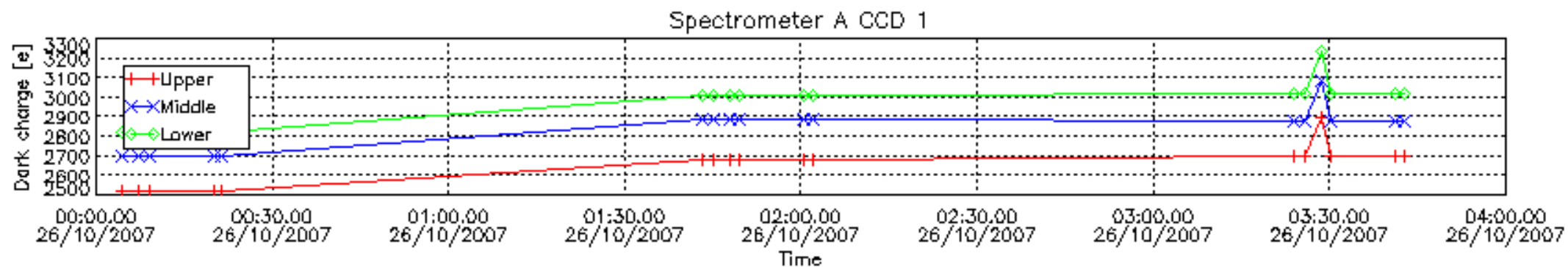
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-OCT-2007 00:04:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	26-OCT-2007 00:04:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-OCT-2007 00:04:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-OCT-2007 00:04:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-OCT-2007 00:04:25
ECMWF_FILE	AUX_ECF_AXNECM20071025_060114_20071025_210000_20071026_090000	1	26-OCT-2007 00:04:25
OPTIONAL_ECMWF_FILE	MISSING	1	26-OCT-2007 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071025_221021_000057382062_00444_29556_4430.N1	1	26-OCT-2007 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071025_235118_000057382062_00445_29557_4431.N1	18	26-OCT-2007 01:43:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071026_012656_000041442062_00446_29558_4432.N1	31	26-OCT-2007 02:47:12

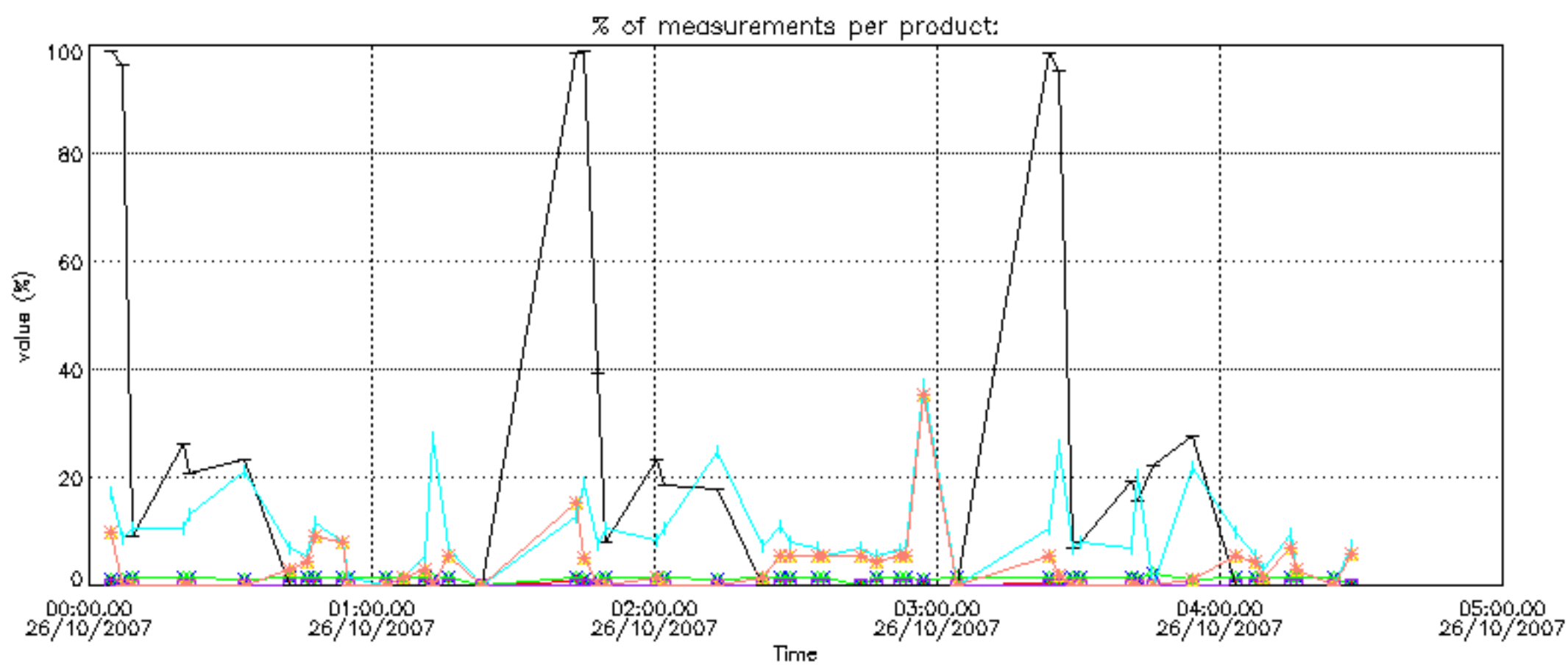




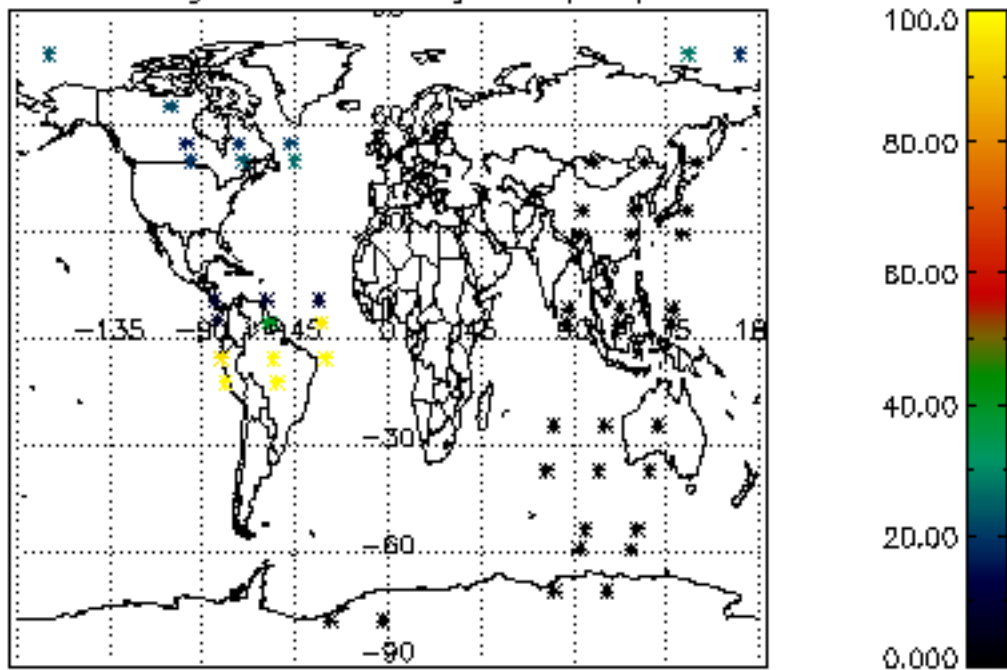




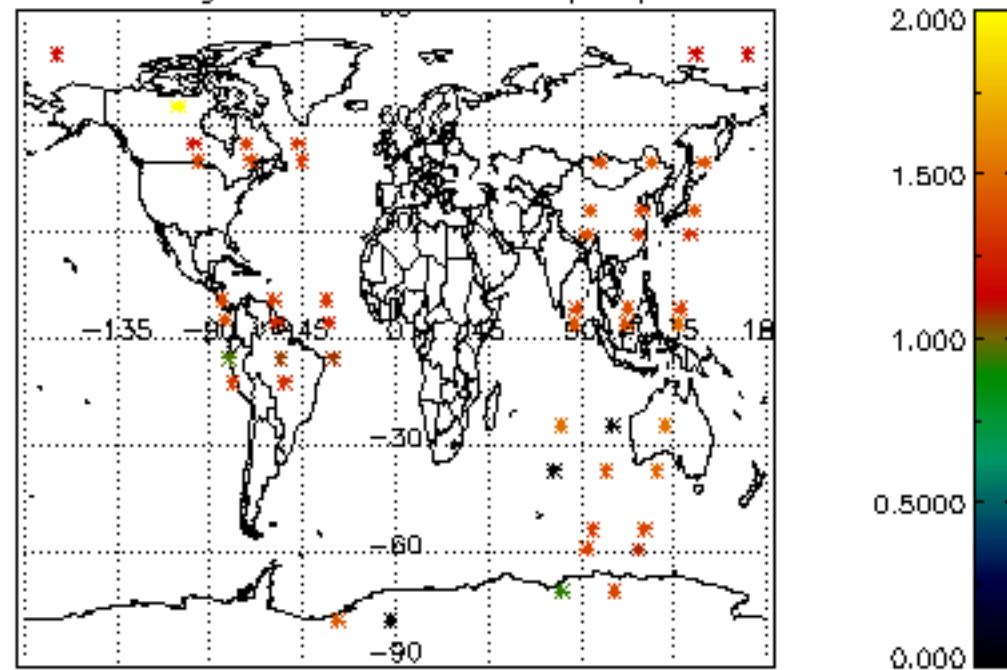




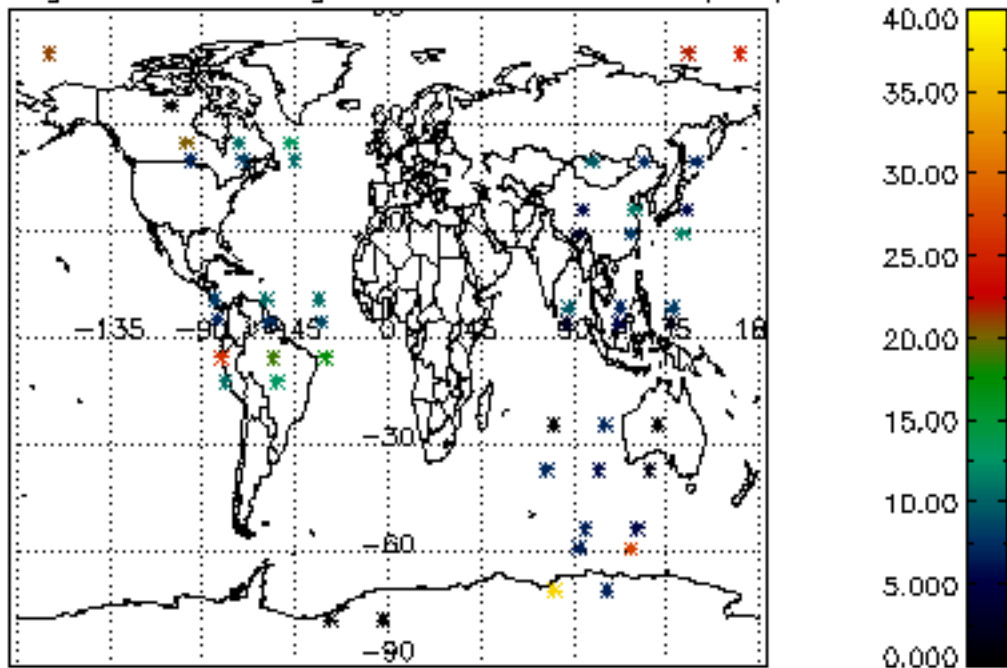
Percentage of cosmic ray hits per profile



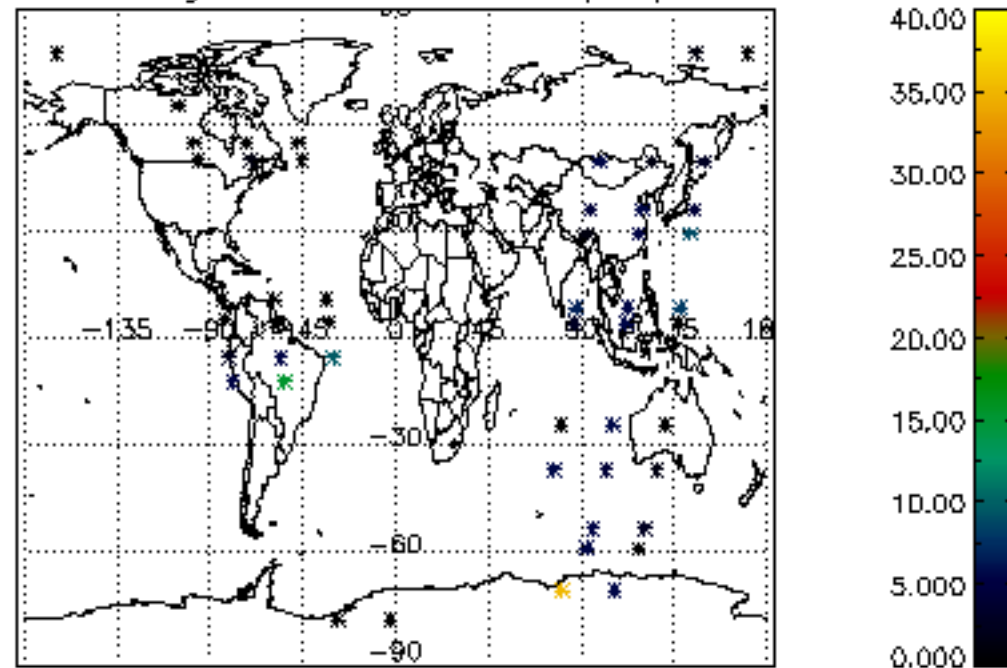
Percentage of datation errors per profile



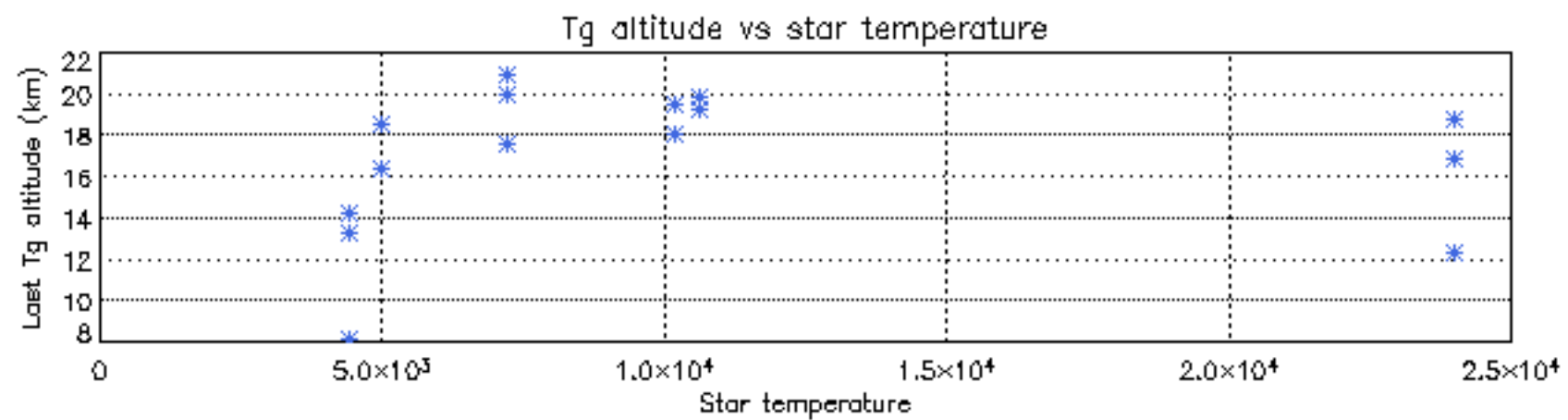
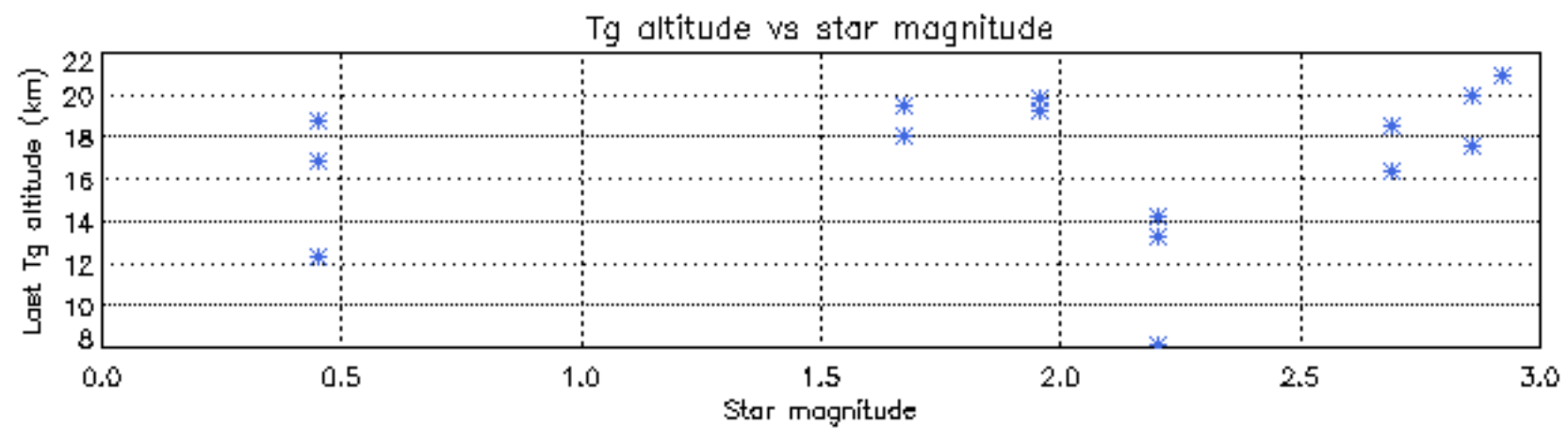
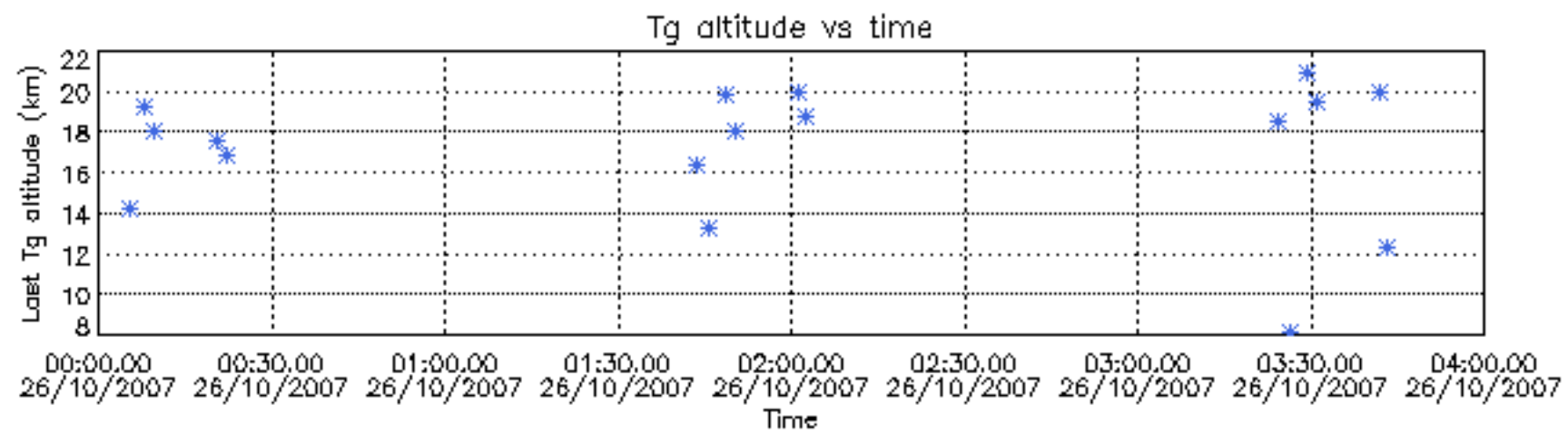
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

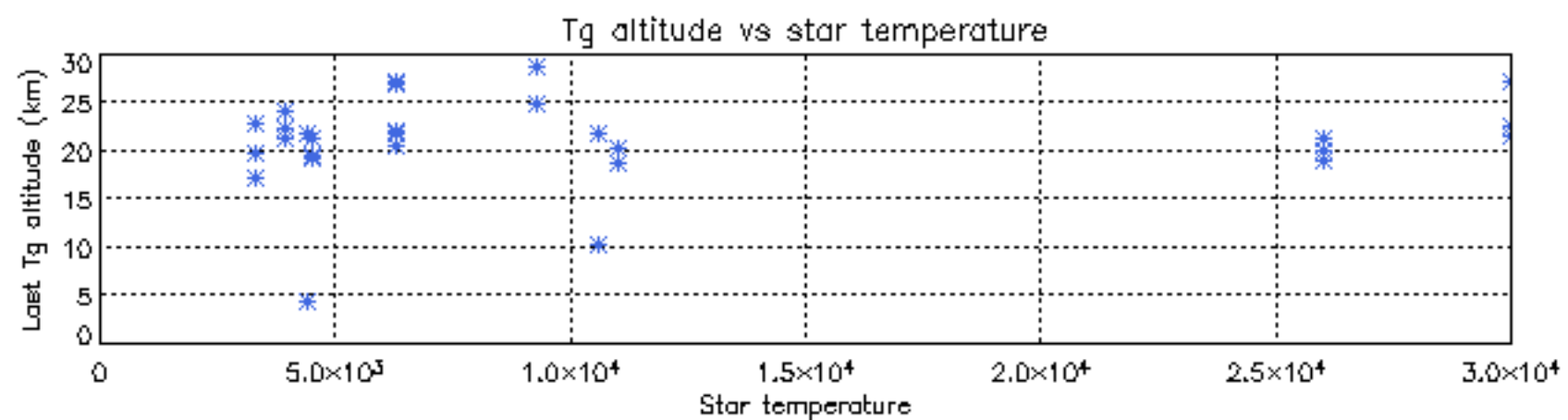
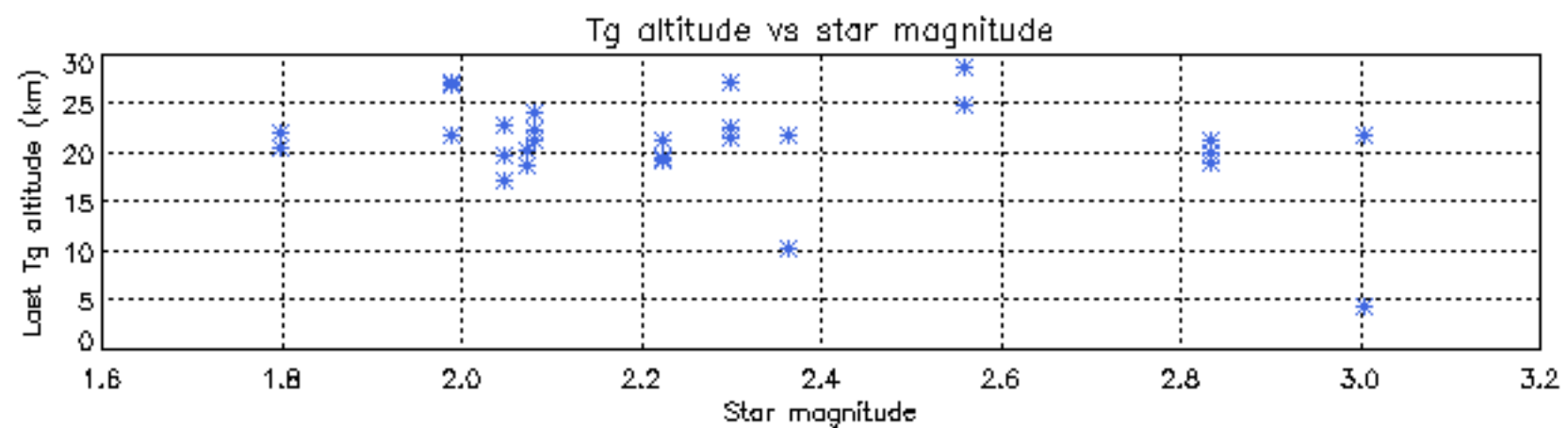
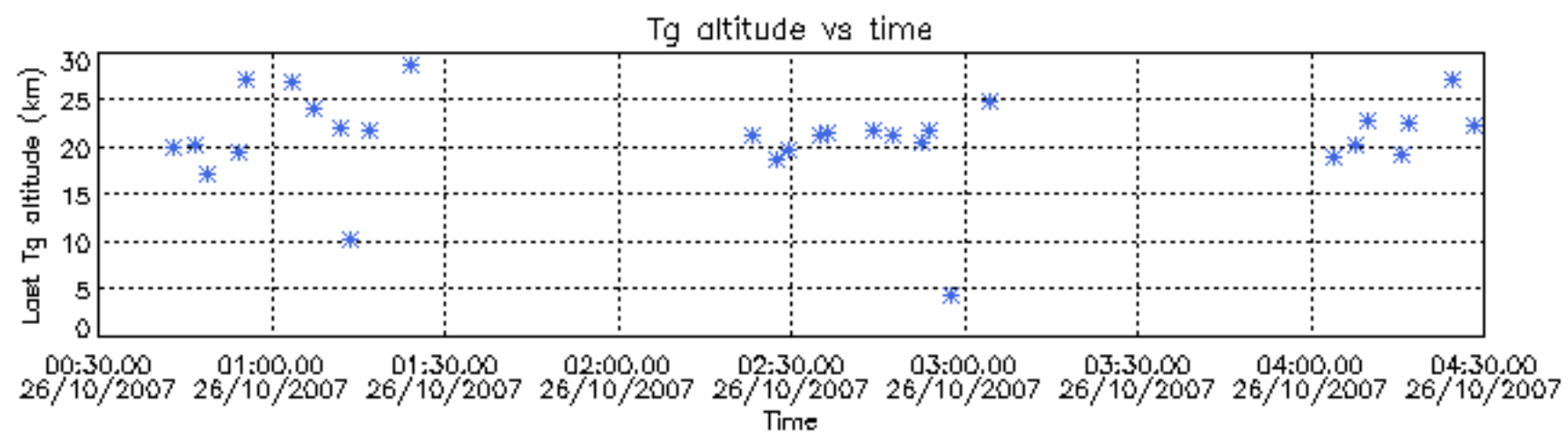


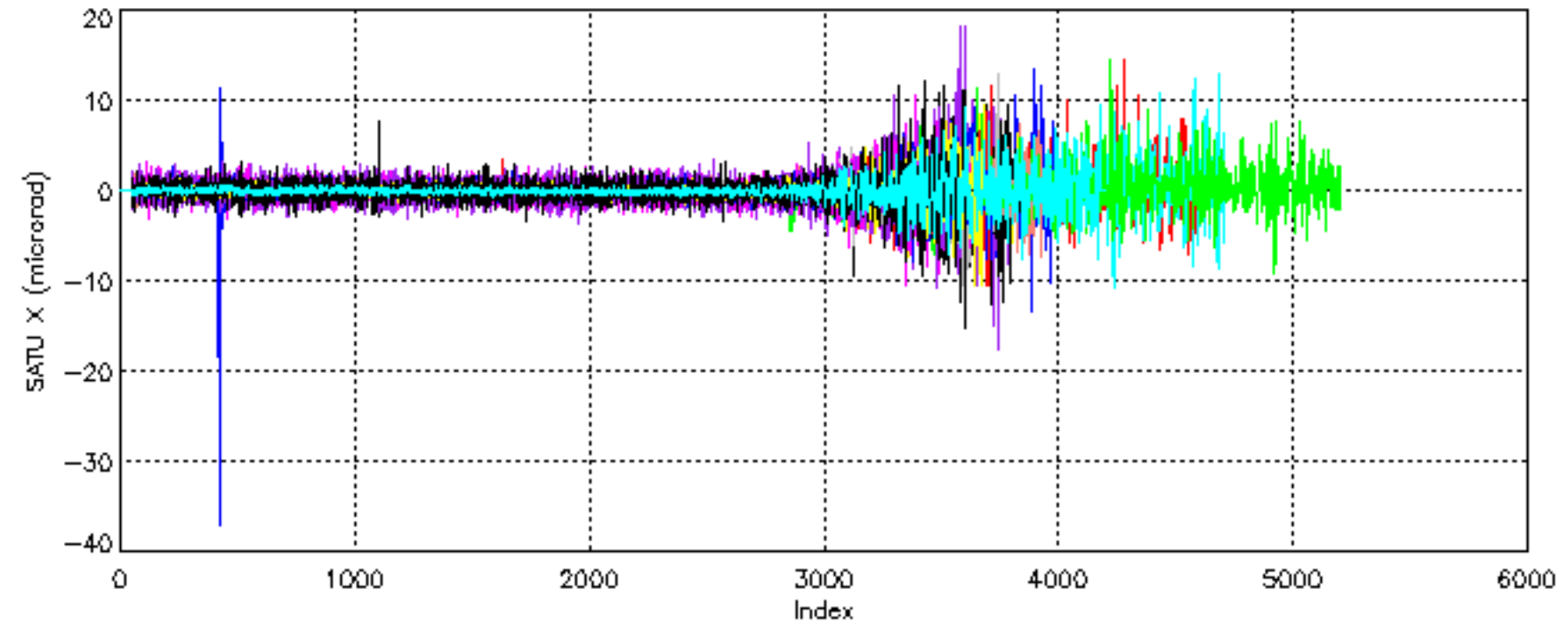
Tangent altitude at which the star is lost

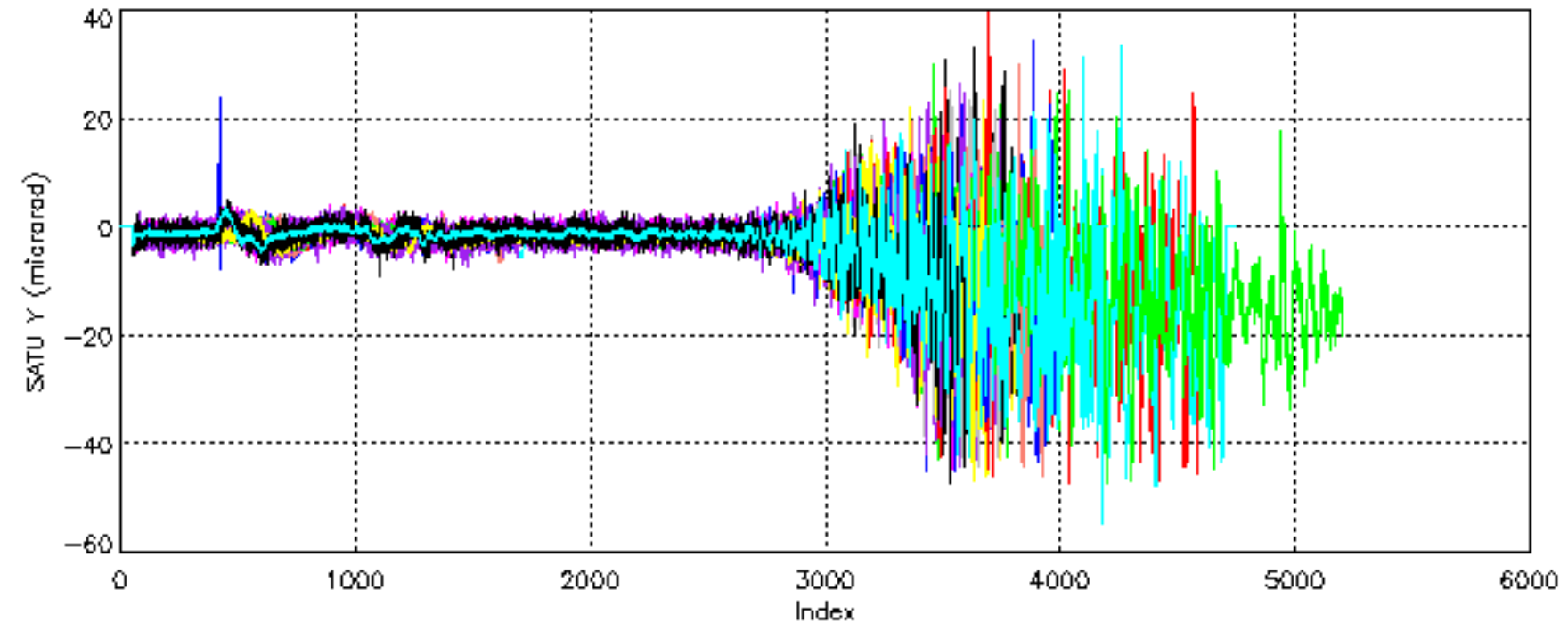




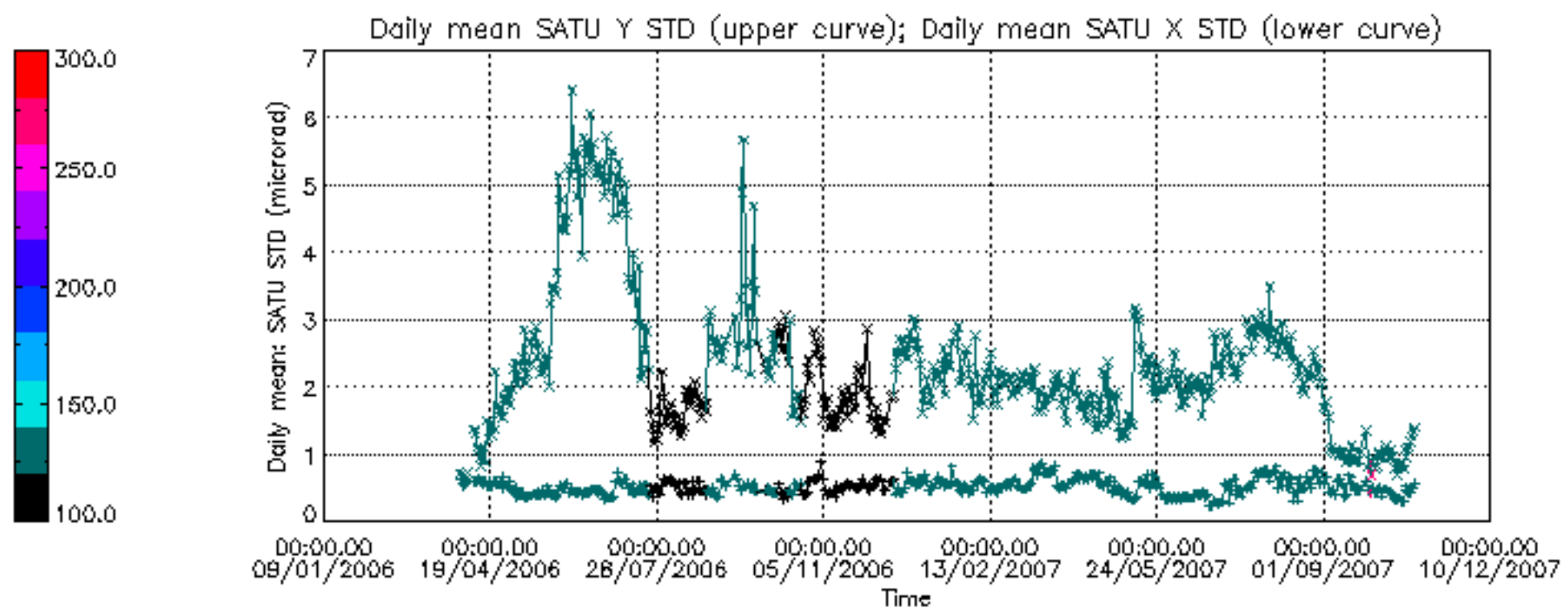
Tangent altitude at which the star is lost











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 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201  
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201  
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201  
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201  
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 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201  
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 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201  
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201  
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201  
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 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202  
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 13; 2386.3; 01-OCT-2007 03:52:36; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29202  
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15; 2386.4; 02-OCT-2007 05:01:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29217
16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29218
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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
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3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219  
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 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29219  
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 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219  
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219  
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 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220  
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220  
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220  
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29220  
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 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221  
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 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221  
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221  
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 9; 5747.6; 02-OCT-2007 12:40:00; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29221  
 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221  
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221  
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 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221  
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 16; 6861.4; 02-OCT-2007 12:58:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29221  
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7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287  
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287  
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10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288  
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12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288  
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9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
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 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289  
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
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 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300  
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 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300  
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
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 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300  
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
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 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
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 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290  
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290  
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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290  
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290  
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290  
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290  
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290  
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290  
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 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290  
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 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
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6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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7; 1582.5; 13-OCT-2007 22:28:48; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29385
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9; 2405.0; 13-OCT-2007 22:42:30; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29385
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6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496  
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19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496  
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4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497  
5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
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7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497  
9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497  
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12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497  
13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497  
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19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497  
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7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499  
8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499  
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3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
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8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509
9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
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16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
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5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 17; 6202.3; 22-OCT-2007 17:20:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29510  
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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512  
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 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512  
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512  
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515  
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 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515  
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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516  
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 18; 6871.2; 24-OCT-2007 11:26:45; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29535  
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4;-1384.1; 26-OCT-2007 06:25:20; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29561
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7; -11.2; 26-OCT-2007 06:48:13; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29561
8; 87.5; 26-OCT-2007 06:49:51; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29562
9; 181.2; 26-OCT-2007 06:51:25; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29562
10; 841.6; 26-OCT-2007 07:02:26; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29562
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3; 2522.1; 26-OCT-2007 09:11:02; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29563
4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
8; 3918.0; 26-OCT-2007 09:34:18; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29563
9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564  
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