

# GOMOS Daily Report 01-MAY-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	03MAY2007 05:39:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02MAY2007 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)

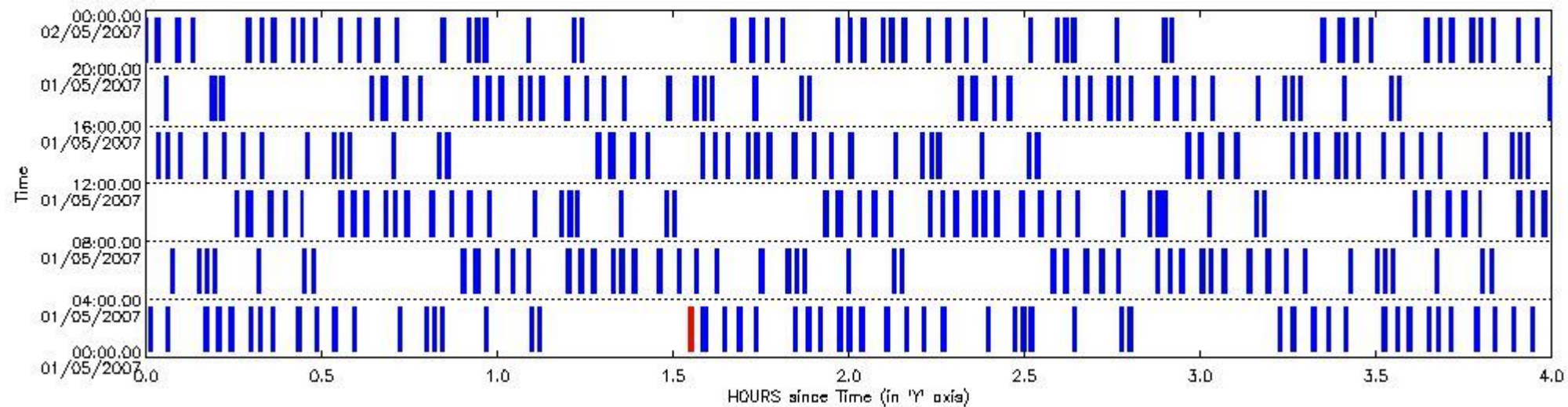
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

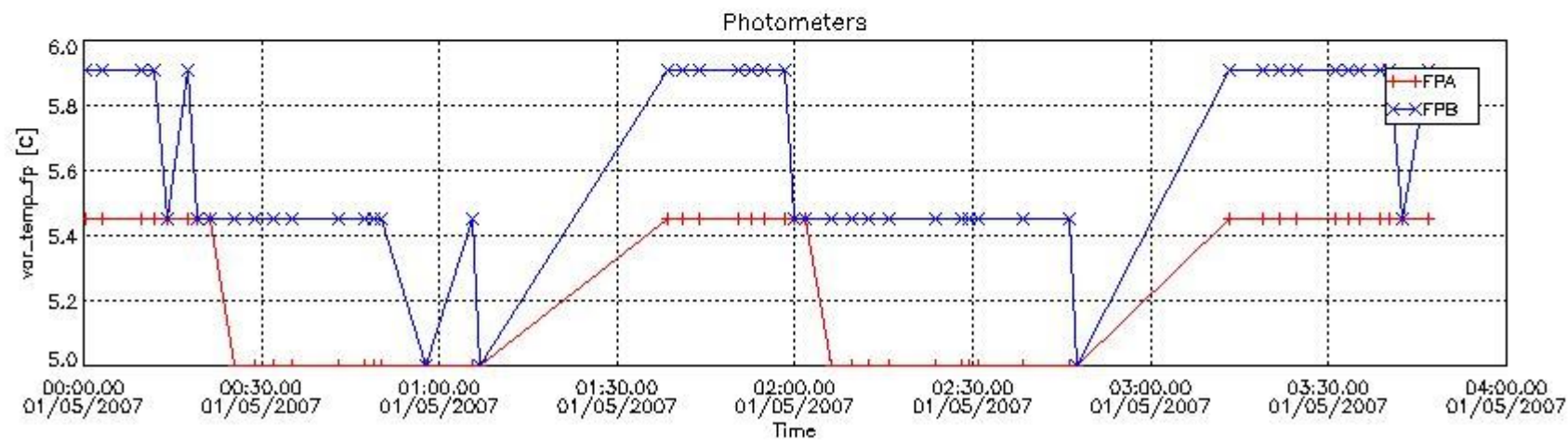
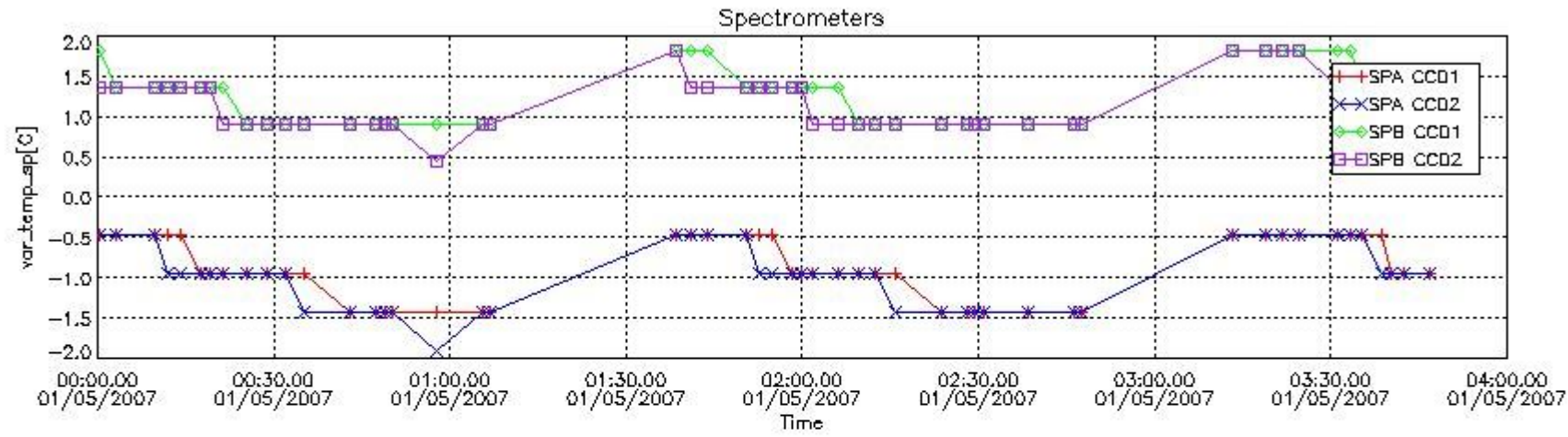
UTC start time	Star name	Star ID	Orbit
01-MAY-2007 01:32:31	24AlpPsA	18	27010

### 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_1PNPDE20070501_000025_000000392057_00403_27010_3637.N1	01-MAY-2007 00:00:25	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	27010	No
2	GOM_TRA_1PNPDE20070501_000314_000000352057_00403_27010_3638.N1	01-MAY-2007 00:03:14	Dark	35.000	45	Alp Pav	1.9400	26000.	70	27010	No
3	GOM_TRA_1PNPDE20070501_000952_000000392057_00403_27010_3639.N1	01-MAY-2007 00:09:52	Straylight	39.000	43	Alp TrA	1.9100	4250.0	78	27010	No
4	GOM_TRA_1PNPDE20070501_001204_000000382057_00403_27010_3640.N1	01-MAY-2007 00:12:04	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	27010	No
5	GOM_TRA_1PNPDE20070501_001408_000000512057_00403_27010_3641.N1	01-MAY-2007 00:14:08	Straylight	51.000	4	Alp1Cen	-0.010000	5800.0	102	27010	No
6	GOM_TRA_1PNPDE20070501_001733_000000392057_00403_27010_3642.N1	01-MAY-2007 00:17:33	Straylight	39.000	78	Alp Lup	2.3040	28000.	78	27010	No
7	GOM_TRA_1PNPDE20070501_001906_000000412057_00403_27010_3643.N1	01-MAY-2007 00:19:06	Straylight	40.500	81	Eta Cen	2.3560	28000.	81	27010	No
8	GOM_TRA_1PNPDE20070501_002111_000000432057_00403_27010_3644.N1	01-MAY-2007 00:21:11	Twilight_stray	42.500	54	5The Cen	2.0550	4500.0	85	27010	No
9	GOM_TRA_1PNPDE20070501_002529_000000522057_00403_27010_3645.N1	01-MAY-2007 00:25:29	Bright	52.000	169	46Gam Hya	2.9910	4700.0	104	27010	No
10	GOM_TRA_1PNPDE20070501_002849_000000392057_00403_27010_3646.N1	01-MAY-2007 00:28:49	Bright	38.500	15	67Alp Vir	0.97600	28000.	77	27010	No

11	GOM_TRA_1PNPDE20070501_003153_000000372057_00403_27010_3647.N1	01-MAY-2007 00:31:53	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	27010	No
12	GOM_TRA_1PNPDE20070501_003512_000000352057_00403_27010_3648.N1	01-MAY-2007 00:35:12	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27010	No
13	GOM_TRA_1PNPDE20070501_004257_000000342057_00403_27010_3649.N1	01-MAY-2007 00:42:57	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	27010	No
14	GOM_TRA_1PNPDE20070501_004729_000000332057_00403_27010_3650.N1	01-MAY-2007 00:47:29	Bright	33.000	87	64Gam UMa	2.4330	11000.	66	27010	No
15	GOM_TRA_1PNPDE20070501_004852_000000362057_00403_27010_3651.N1	01-MAY-2007 00:48:52	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	27010	No
16	GOM_TRA_1PNPDE20070501_005012_000000372057_00403_27010_3652.N1	01-MAY-2007 00:50:12	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	27010	No
17	GOM_TRA_1PNPDE20070501_005742_000000332057_00403_27010_3653.N1	01-MAY-2007 00:57:42	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27010	No
18	GOM_TRA_1PNPDE20070501_010534_000000332057_00403_27010_3654.N1	01-MAY-2007 01:05:34	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	27010	No
19	GOM_TRA_1PNPDE20070501_010657_000000352057_00403_27010_3655.N1	01-MAY-2007 01:06:57	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	27010	No
20	GOM_TRA_1PNPDE20070501_013822_000000432057_00403_27010_3783.N1	01-MAY-2007 01:38:22	Dark	42.500	31	Alp Gru	1.7340	15200.	85	27010	No
21	GOM_TRA_1PNPDE20070501_014101_000000462057_00404_27011_3784.N1	01-MAY-2007 01:41:01	Dark	45.500	148	Alp Tuc	2.8780	4100.0	91	27011	No
22	GOM_TRA_1PNPDE20070501_014351_000000352057_00404_27011_3785.N1	01-MAY-2007 01:43:51	Dark	35.000	45	Alp Pav	1.9400	26000.	70	27011	No
23	GOM_TRA_1PNPDE20070501_015028_000000422057_00404_27011_3786.N1	01-MAY-2007 01:50:28	Straylight	42.000	43	Alp TrA	1.9100	4250.0	84	27011	No
24	GOM_TRA_1PNPDE20070501_015240_000000432057_00404_27011_3787.N1	01-MAY-2007 01:52:40	Straylight	42.500	134	Bet TrA	2.8100	6600.0	85	27011	No
25	GOM_TRA_1PNPDE20070501_015444_000000442057_00404_27011_3788.N1	01-MAY-2007 01:54:44	Straylight	43.500	4	Alp1Cen	-0.010000	5800.0	87	27011	No
26	GOM_TRA_1PNPDE20070501_015809_000000422057_00404_27011_3789.N1	01-MAY-2007 01:58:09	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	27011	No
27	GOM_TRA_1PNPDE20070501_015942_000000392057_00404_27011_3790.N1	01-MAY-2007 01:59:42	Straylight	39.000	81	Eta Cen	2.3560	28000.	78	27011	No
28	GOM_TRA_1PNPDE20070501_020148_000000432057_00404_27011_3791.N1	01-MAY-2007 02:01:48	Tw_i_and_stray	43.000	54	5The Cen	2.0550	4500.0	86	27011	No
29	GOM_TRA_1PNPDE20070501_020605_000000412057_00404_27011_3792.N1	01-MAY-2007 02:06:05	Bright	41.000	169	46Gam Hya	2.9910	4700.0	82	27011	No
30	GOM_TRA_1PNPDE20070501_020925_000000392057_00404_27011_3793.N1	01-MAY-2007 02:09:25	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	27011	No
31	GOM_TRA_1PNPDE20070501_021229_000000362057_00404_27011_3794.N1	01-MAY-2007 02:12:29	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	27011	No
32	GOM_TRA_1PNPDE20070501_021548_000000362057_00404_27011_3795.N1	01-MAY-2007 02:15:48	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	27011	No
33	GOM_TRA_1PNPDE20070501_022333_000000352057_00404_27011_3796.N1	01-MAY-2007 02:23:33	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	27011	No
34	GOM_TRA_1PNPDE20070501_022805_000000352057_00404_27011_3797.N1	01-MAY-2007 02:28:05	Bright	35.000	87	64Gam UMa	2.4330	11000.	70	27011	No
35	GOM_TRA_1PNPDE20070501_022929_000000352057_00404_27011_3798.N1	01-MAY-2007 02:29:29	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	27011	No
36	GOM_TRA_1PNPDE20070501_023048_000000362057_00404_27011_3799.N1	01-MAY-2007 02:30:48	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	27011	No
37	GOM_TRA_1PNPDE20070501_023818_000000322057_00404_27011_3800.N1	01-MAY-2007 02:38:18	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27011	No
38	GOM_TRA_1PNPDE20070501_024610_000000422057_00404_27011_3956.N1	01-MAY-2007 02:46:10	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	27011	No
39	GOM_TRA_1PNPDE20070501_024733_000000522057_00404_27011_3957.N1	01-MAY-2007 02:47:33	Bright	52.000	68	18Alp Cas	2.2250	4500.0	104	27011	No
40	GOM_TRA_1PNPDE20070501_031313_000000442057_00404_27011_3958.N1	01-MAY-2007 03:13:13	Dark	44.000	18	24Alp PsA	1.1660	9700.0	88	27011	No
41	GOM_TRA_1PNPDE20070501_031859_000000392057_00404_27011_3959.N1	01-MAY-2007 03:18:59	Dark	39.000	31	Alp Gru	1.7340	15200.	78	27011	No
42	GOM_TRA_1PNPDE20070501_032137_000000382057_00405_27012_3960.N1	01-MAY-2007 03:21:37	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	27012	No
43	GOM_TRA_1PNPDE20070501_032427_000000322057_00405_27012_3961.N1	01-MAY-2007 03:24:27	Dark	32.000	45	Alp Pav	1.9400	26000.	64	27012	No
44	GOM_TRA_1PNPDE20070501_033105_000000422057_00405_27012_3962.N1	01-MAY-2007 03:31:05	Straylight	41.500	43	Alp TrA	1.9100	4250.0	83	27012	No
45	GOM_TRA_1PNPDE20070501_033317_000000392057_00405_27012_3963.N1	01-MAY-2007 03:33:17	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	27012	No
46	GOM_TRA_1PNPDE20070501_033521_000000492057_00405_27012_3964.N1	01-MAY-2007 03:35:21	Straylight	49.000	4	Alp1Cen	-0.010000	5800.0	98	27012	No
47	GOM_TRA_1PNPDE20070501_033845_000000402057_00405_27012_3965.N1	01-MAY-2007 03:38:45	Straylight	40.000	78	Alp Lup	2.3040	28000.	80	27012	No
48	GOM_TRA_1PNPDE20070501_034018_000000392057_00405_27012_3966.N1	01-MAY-2007 03:40:18	Straylight	39.000	81	Eta Cen	2.3560	28000.	78	27012	No
49	GOM_TRA_1PNPDE20070501_034224_000000422057_00405_27012_3967.N1	01-MAY-2007 03:42:24	Tw_i_and_stray	41.500	54	5The Cen	2.0550	4500.0	83	27012	No
50	GOM_TRA_1PNPDE20070501_034641_000000482057_00405_27012_3968.N1	01-MAY-2007 03:46:41	Bright	47.500	169	46Gam Hya	2.9910	4700.0	95	27012	No

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



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

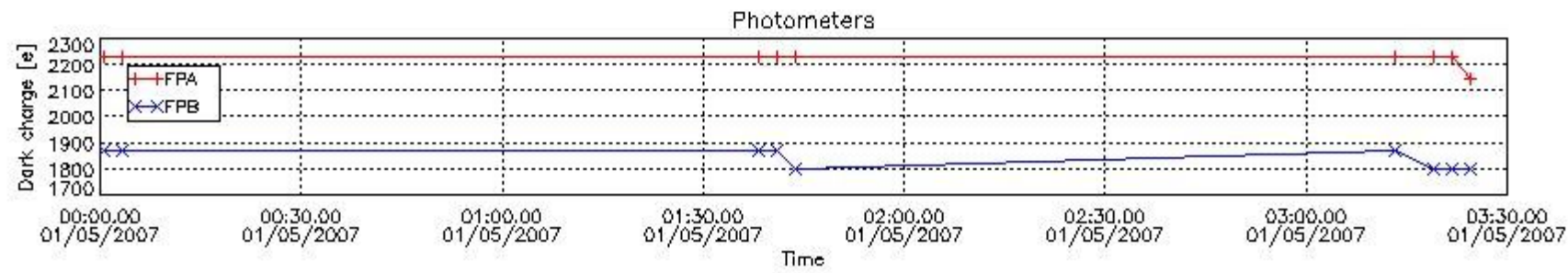
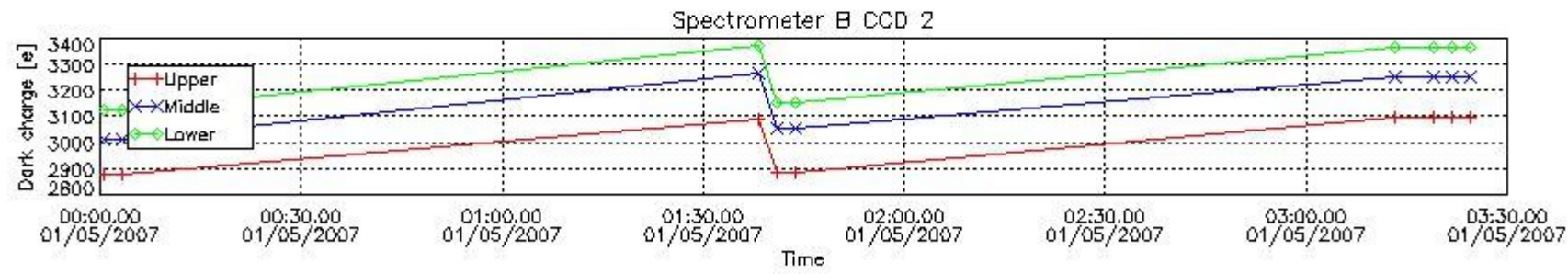
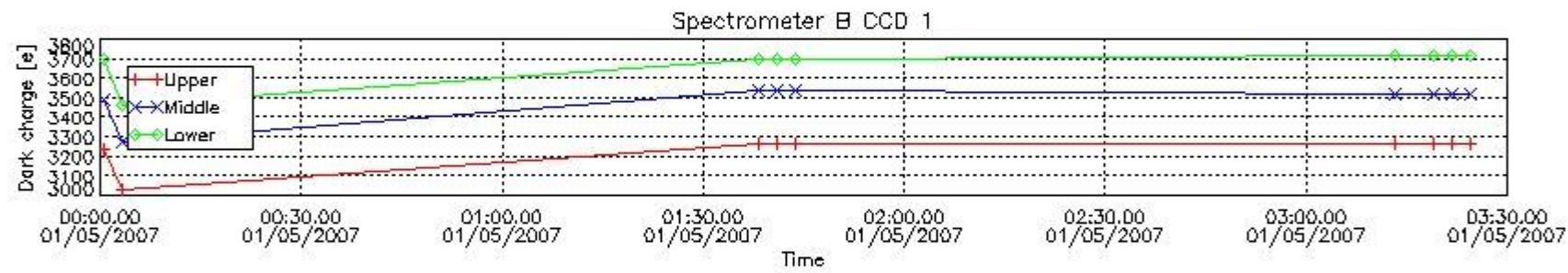
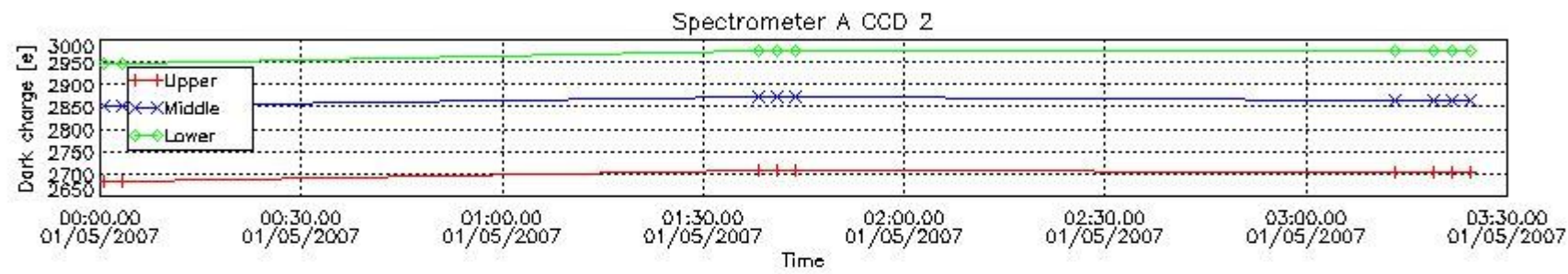
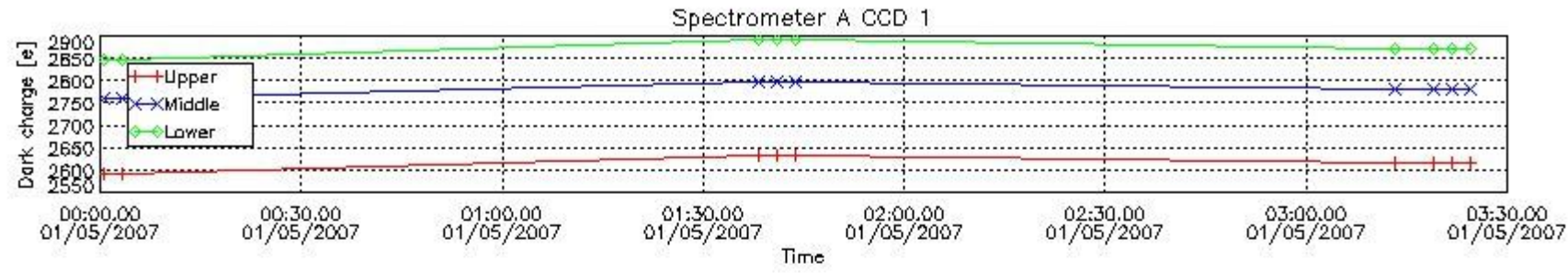
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





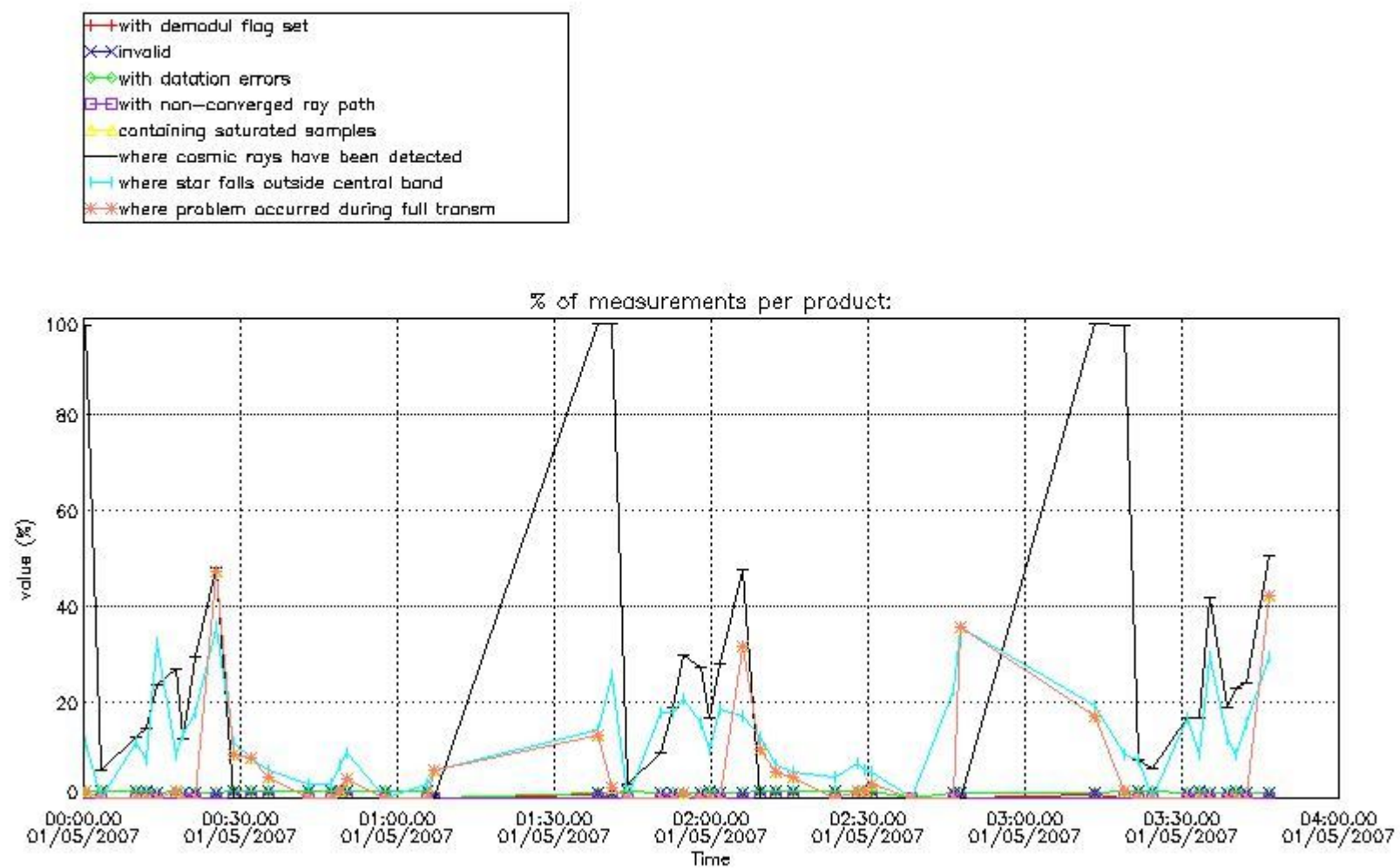
## 5. Demodulation flag and quality information monitoring

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:

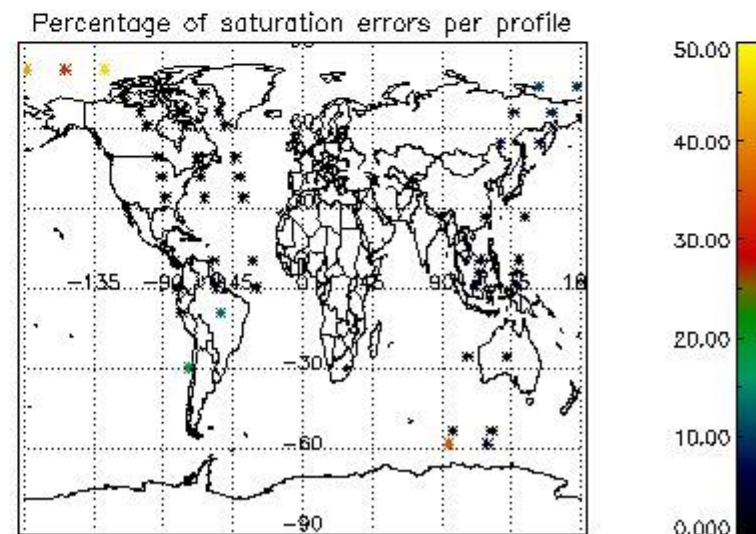
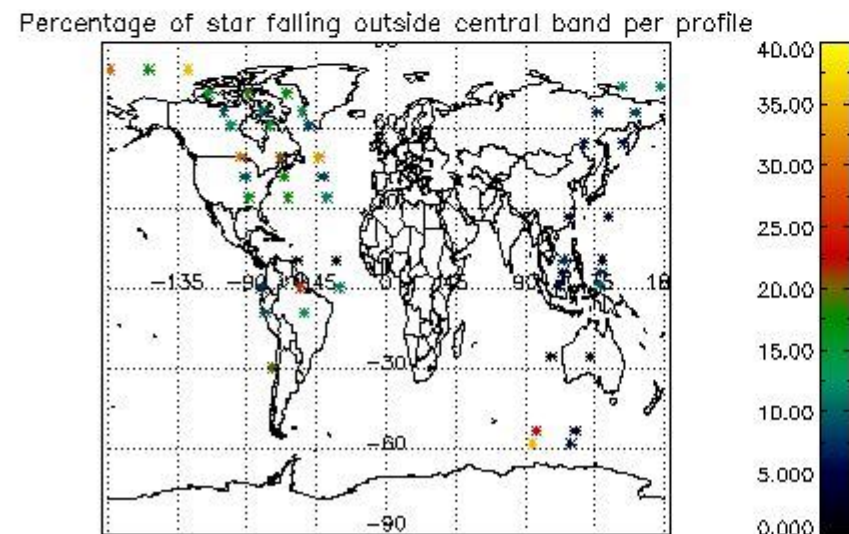
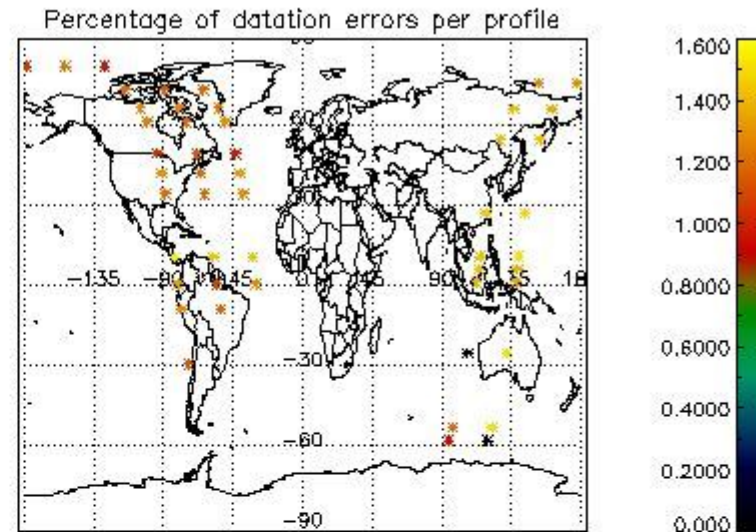
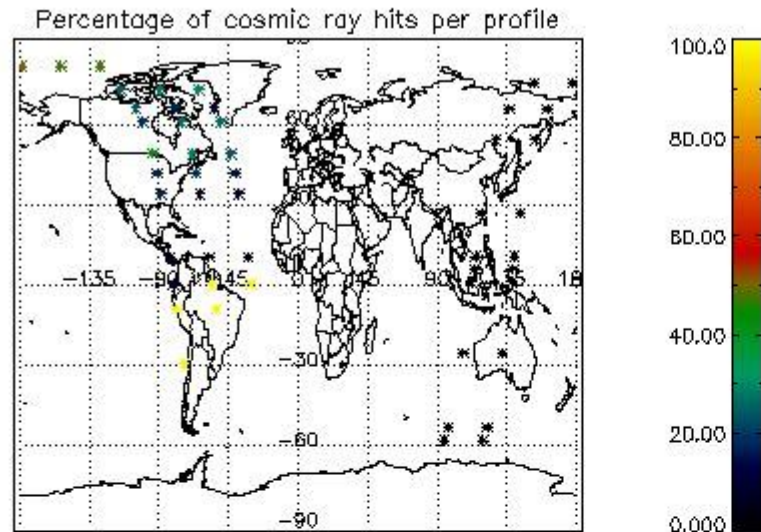
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





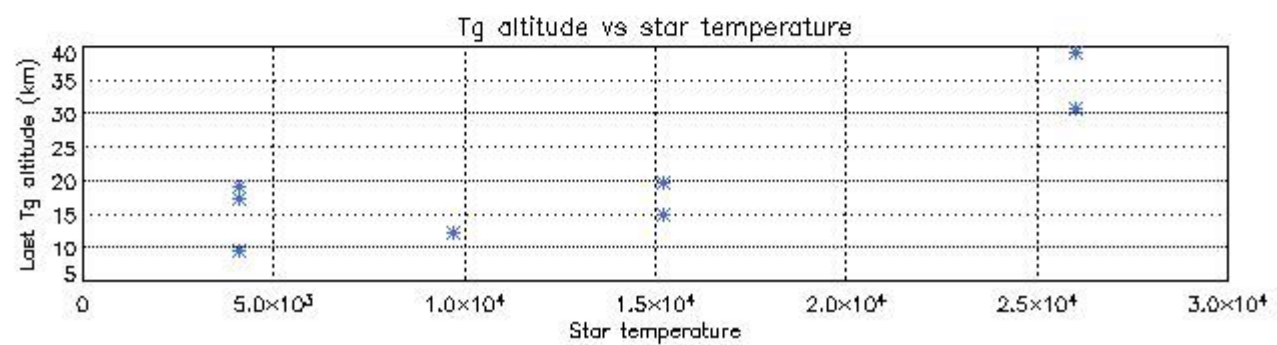
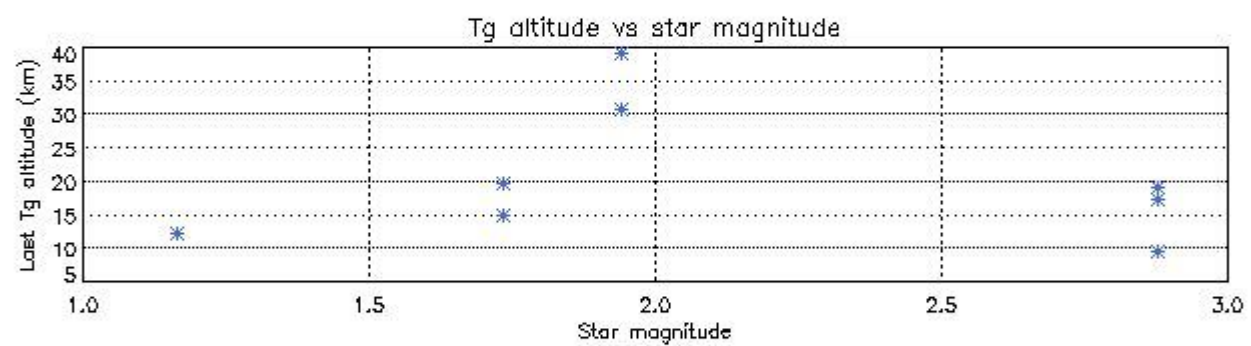
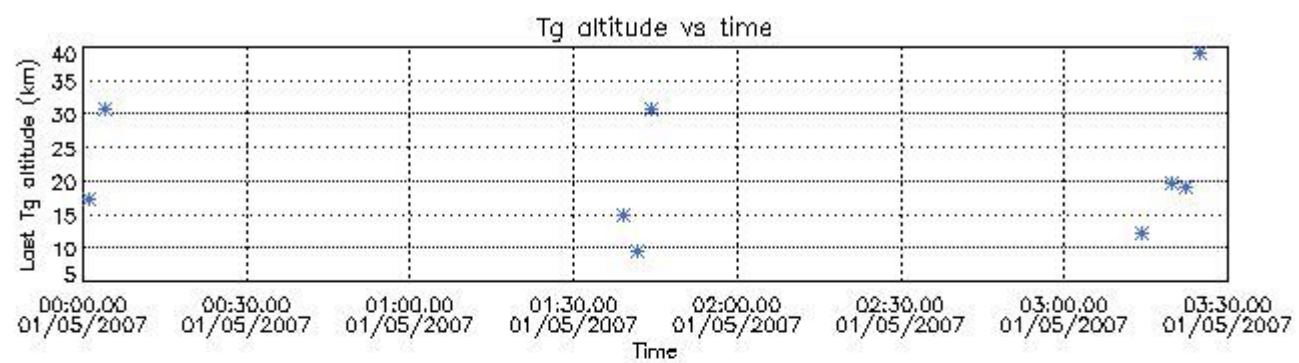
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.476	19.314	NaN
St. deviation:	9.9192	6.9737	NaN
Maximum:	39.092	29.915	NaN
Minimum:	9.3847	3.5900	NaN
Number of data:	9.0000	23.000	NaN

### 6.2 Plot for DARK limb products

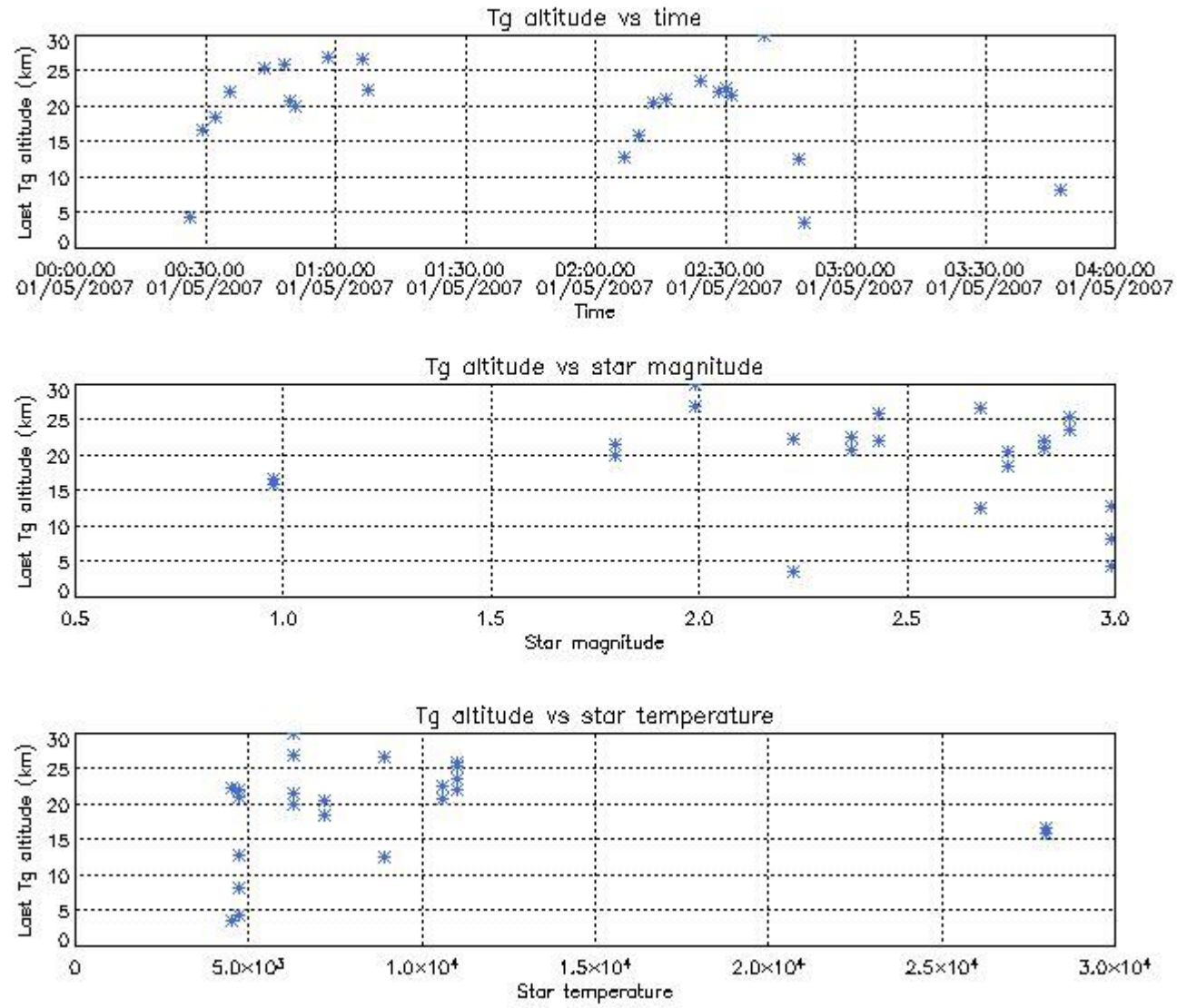
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

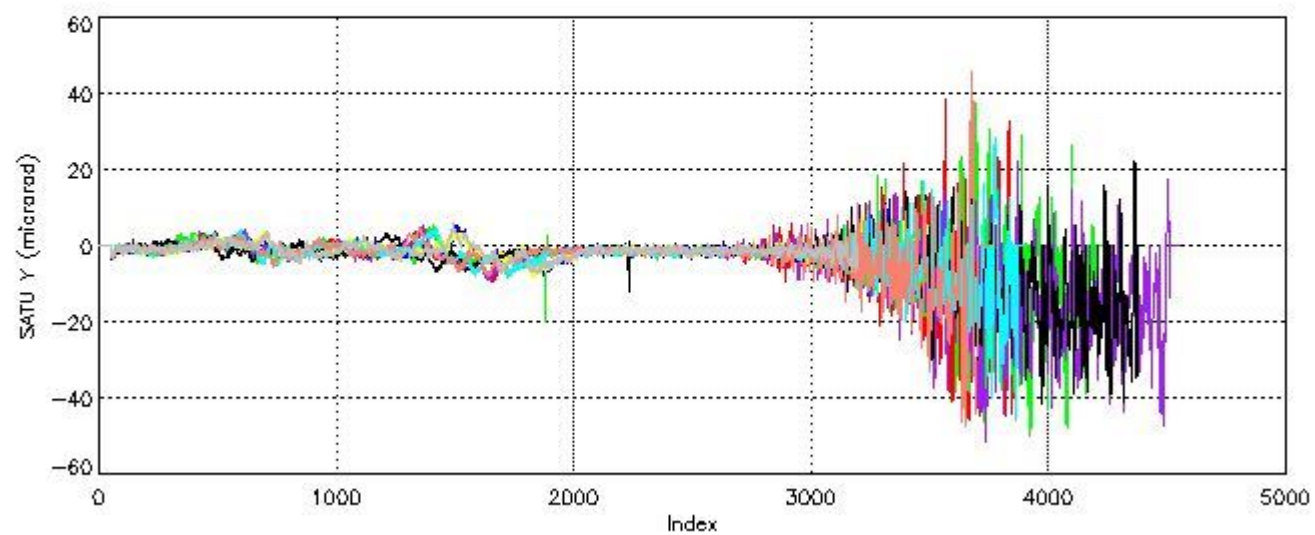
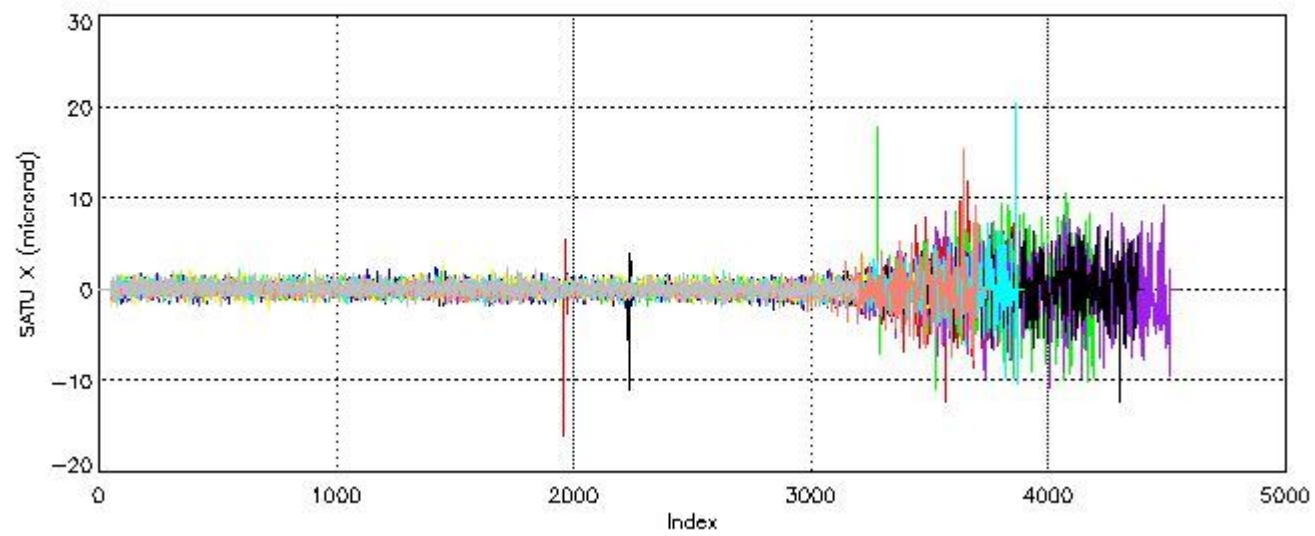


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.059217	-0.67021	0.022860	-0.69911
St. deviation:	0.49271	1.4216	0.79702	1.4811
Maximum:	2.1000	4.2000	4.8000	5.8000
Minimum:	-2.3000	-5.9000	-4.8000	-6.9000

Number of data:	8400.0	8400.0	19050.	19050.
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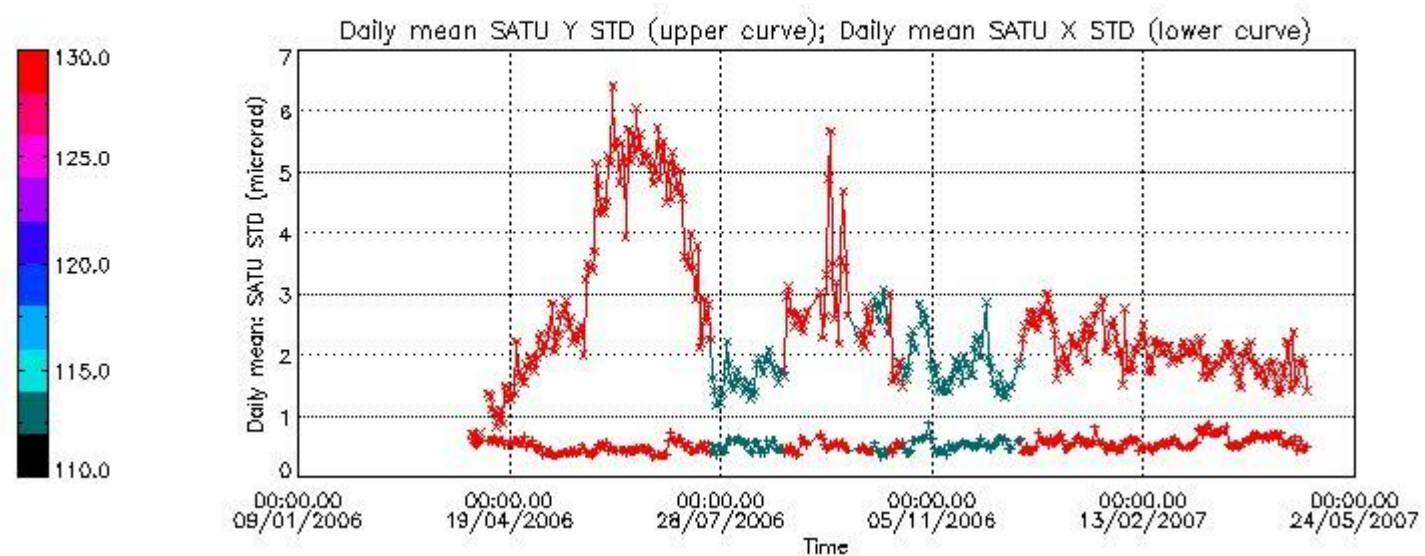
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

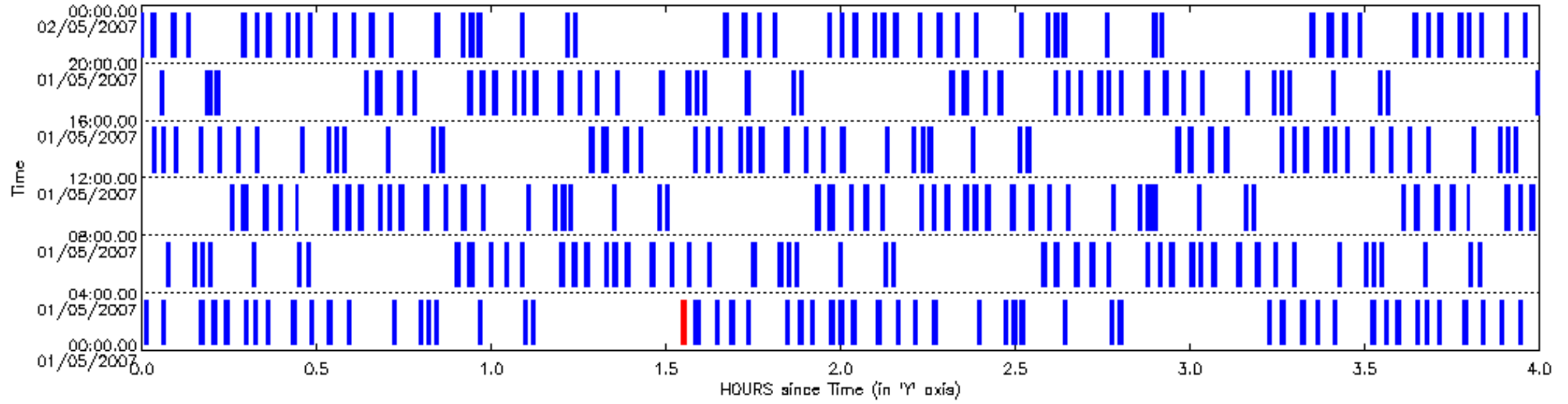


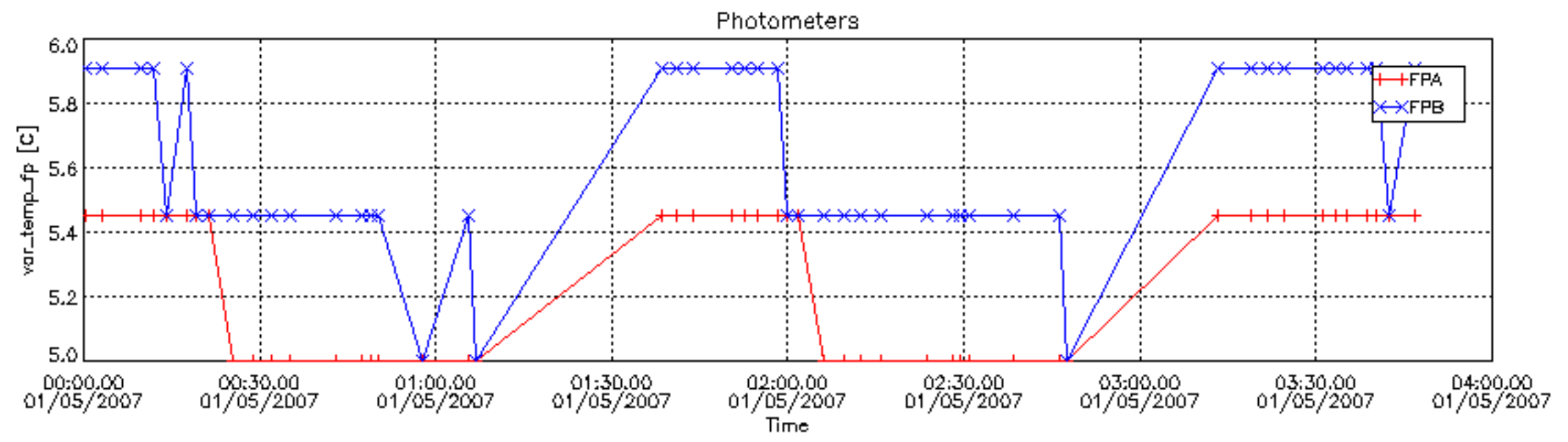
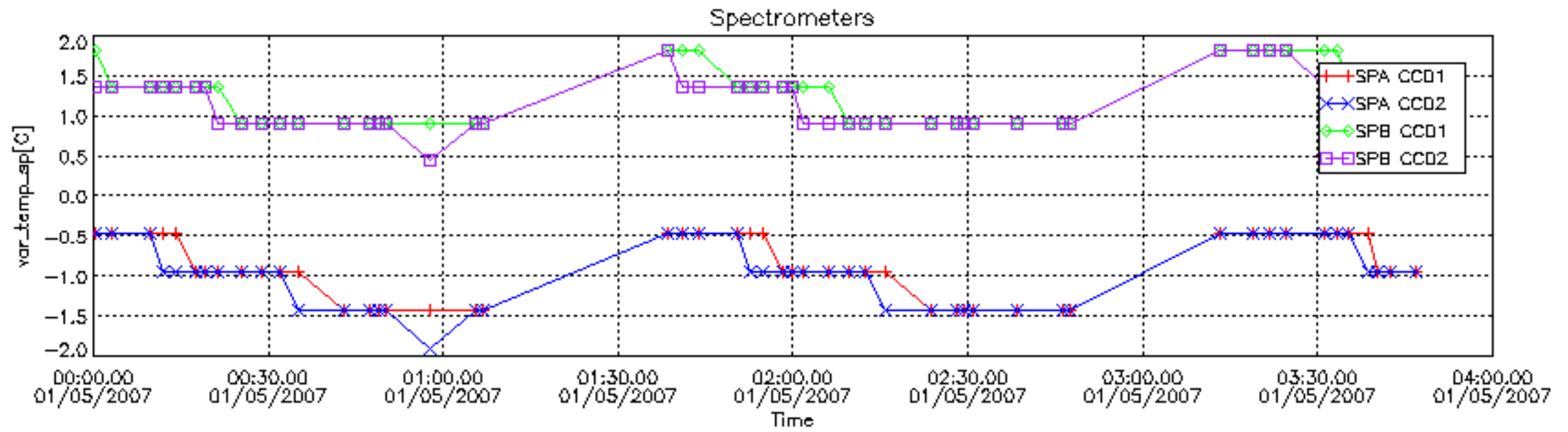
### 8. Auxiliary Data Files used for the production reported in section 2.4

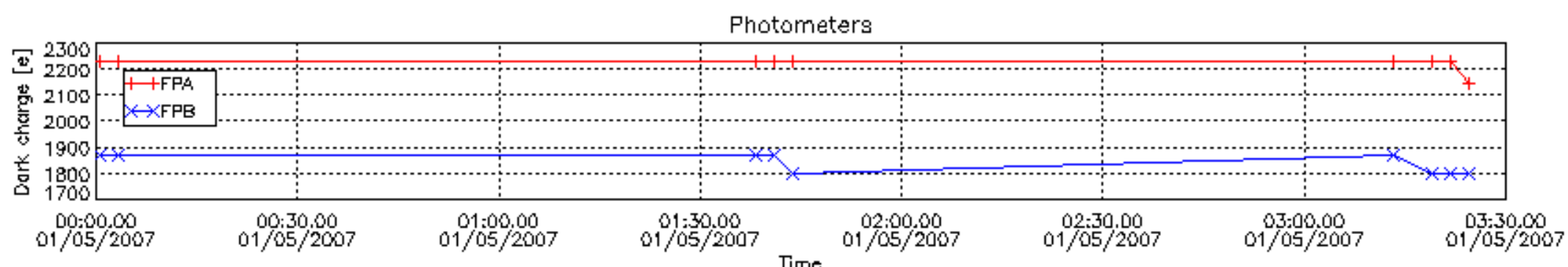
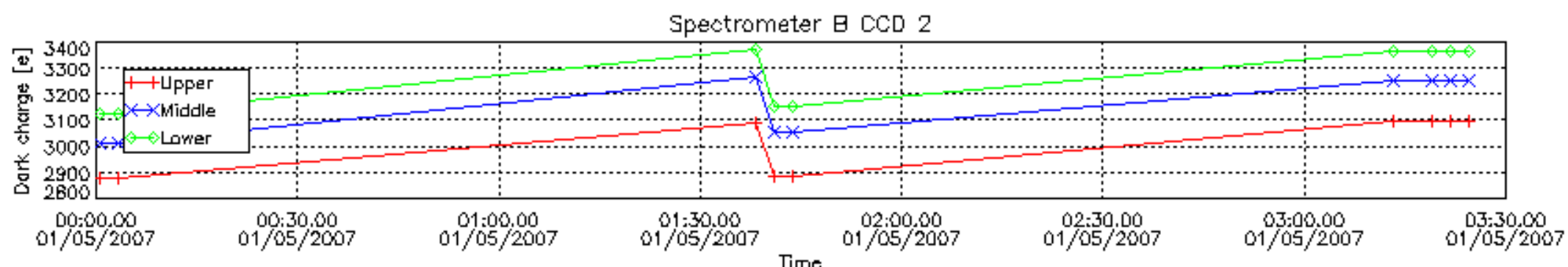
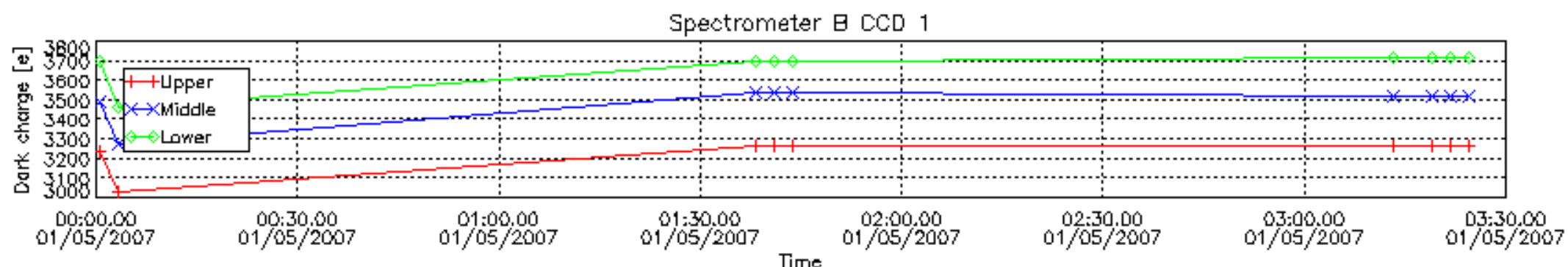
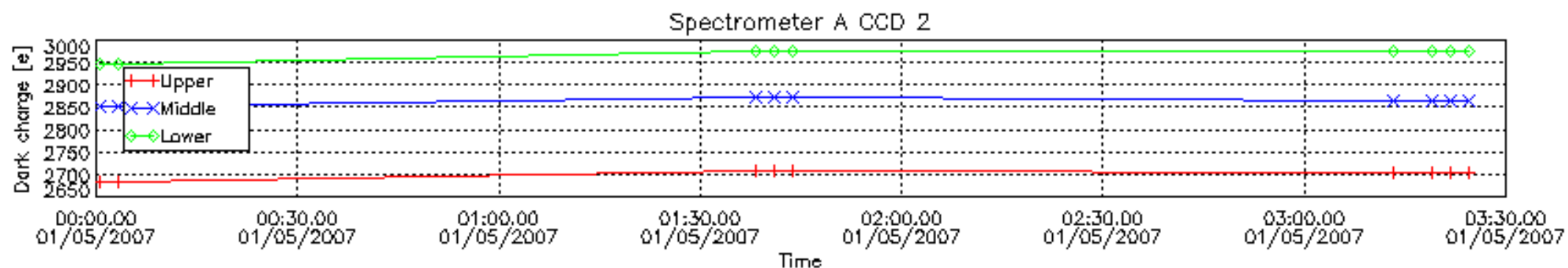
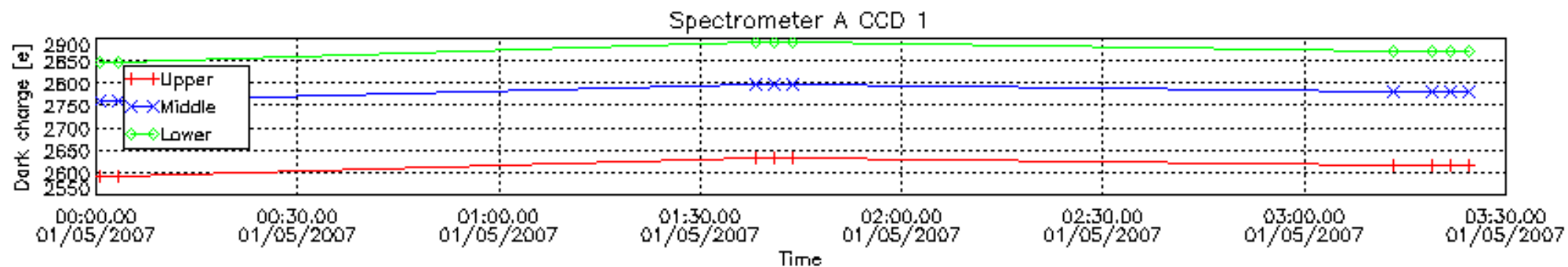
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-MAY-2007 00:00:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070420_153235_20070419_000000_20100101_000000	1	01-MAY-2007 00:00:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-MAY-2007 00:00:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-MAY-2007 00:00:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-MAY-2007 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20070430_062113_20070430_210000_20070501_090000	1	01-MAY-2007 00:00:25
OPTIONAL_ECMWF_FILE	MISSING	1	01-MAY-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070430_220257_000057382057_00401_27008_3391.N1	1	01-MAY-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070430_234354_000057382057_00402_27009_3392.N1	20	01-MAY-2007 01:38:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070501_012451_000041442057_00403_27010_3393.N1	38	01-MAY-2007 02:46:10

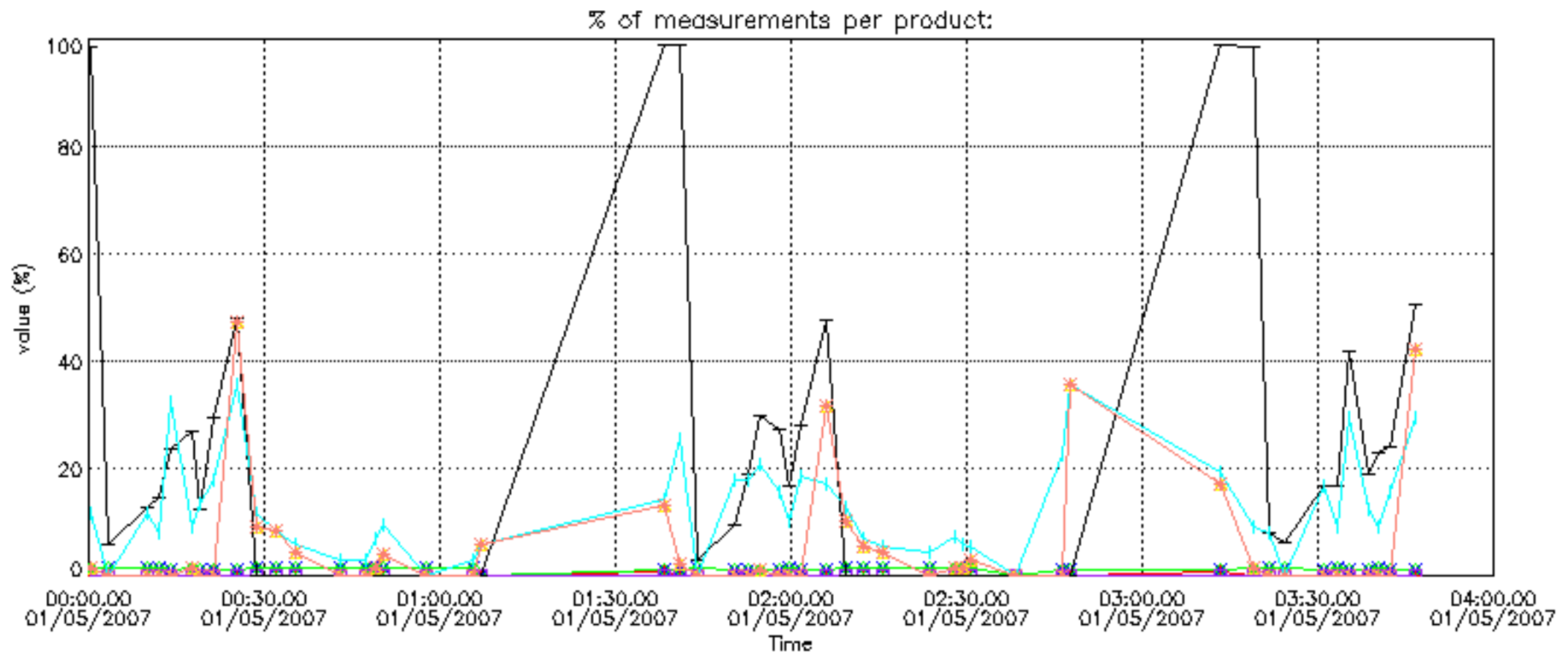




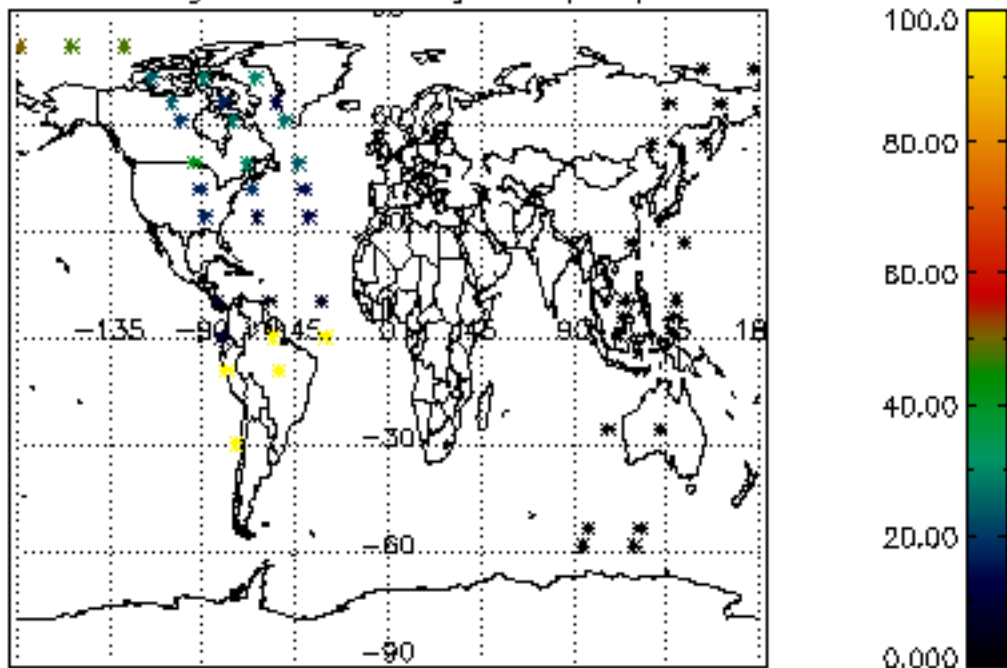




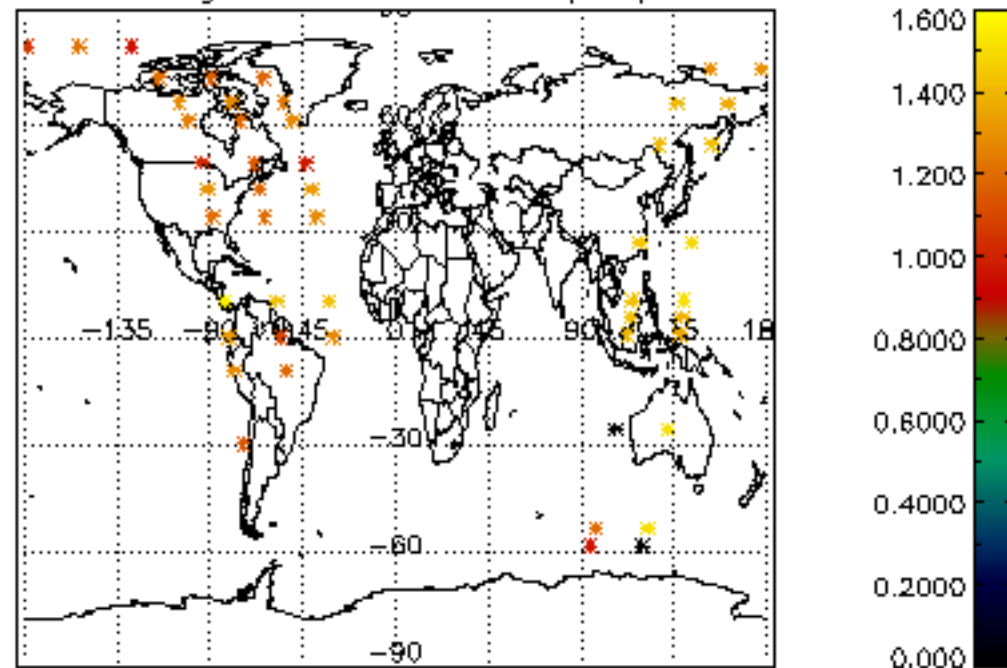




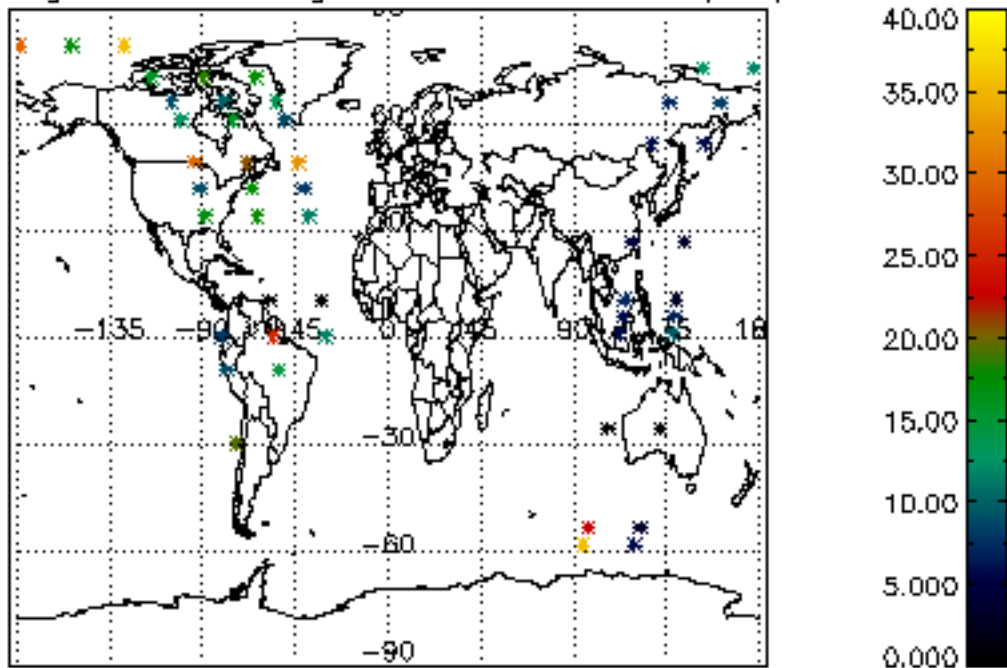
Percentage of cosmic ray hits per profile



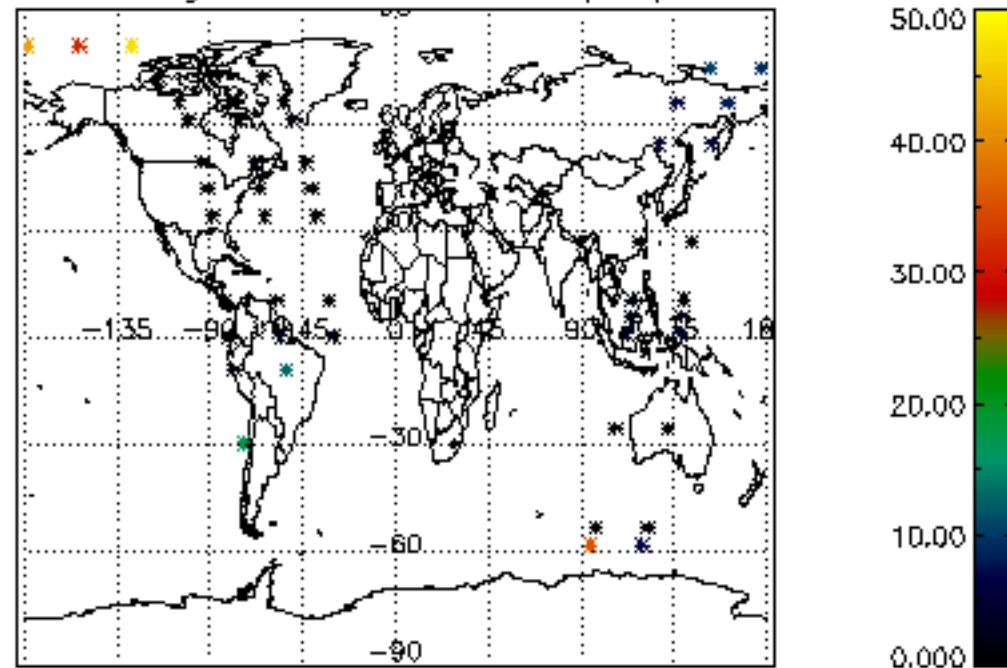
Percentage of datation errors per profile



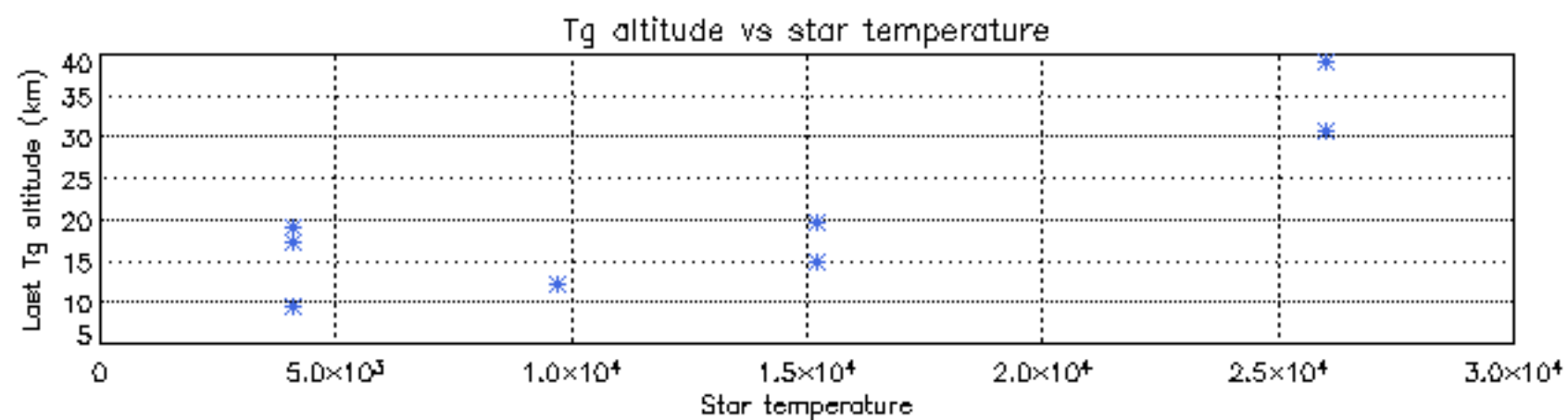
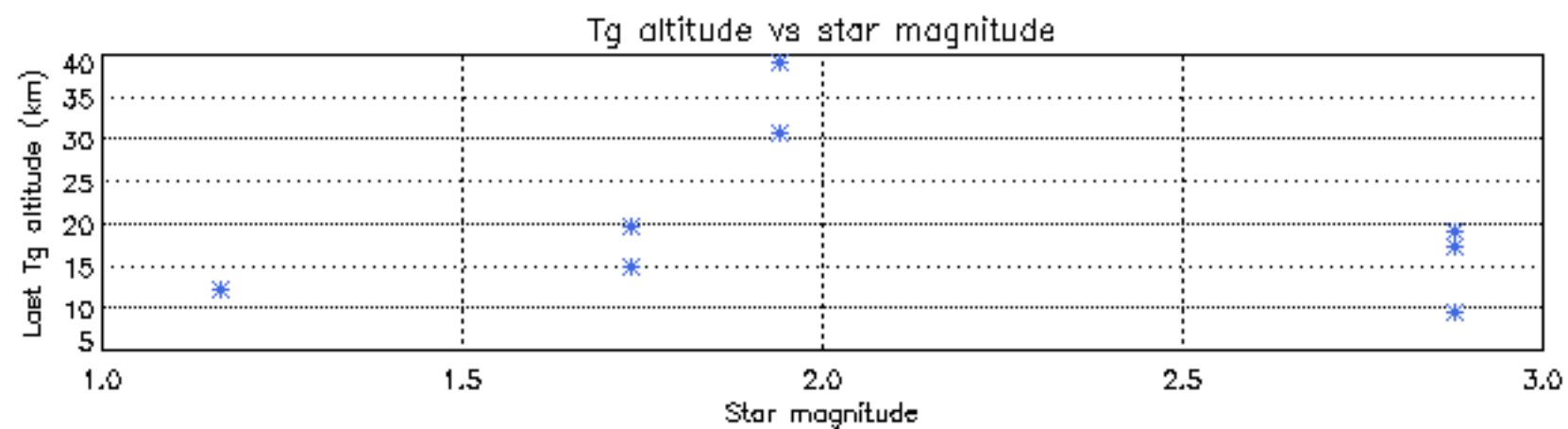
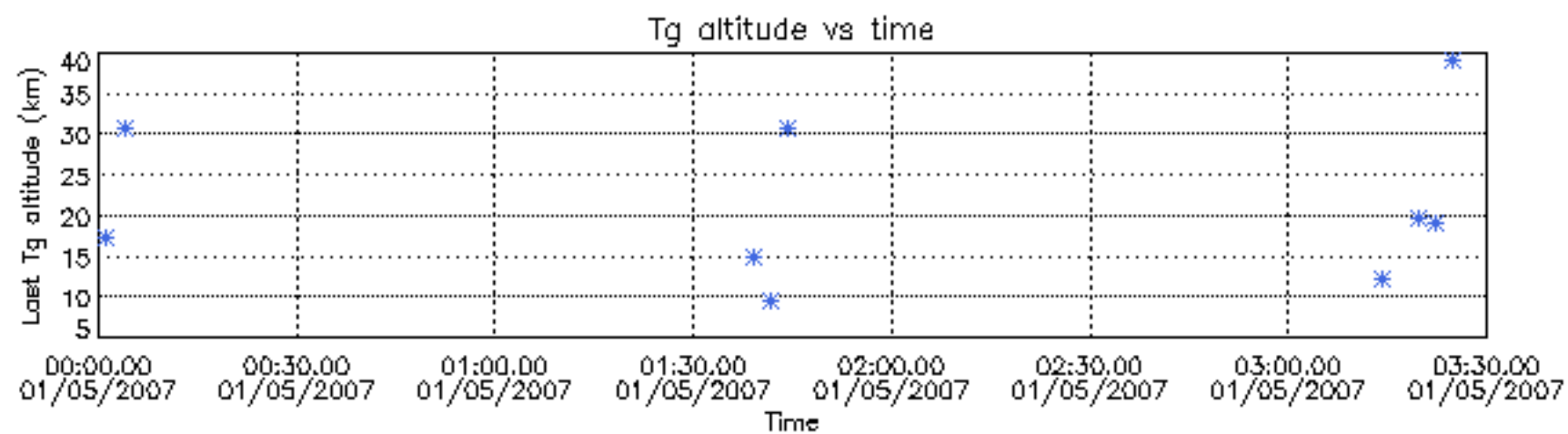
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

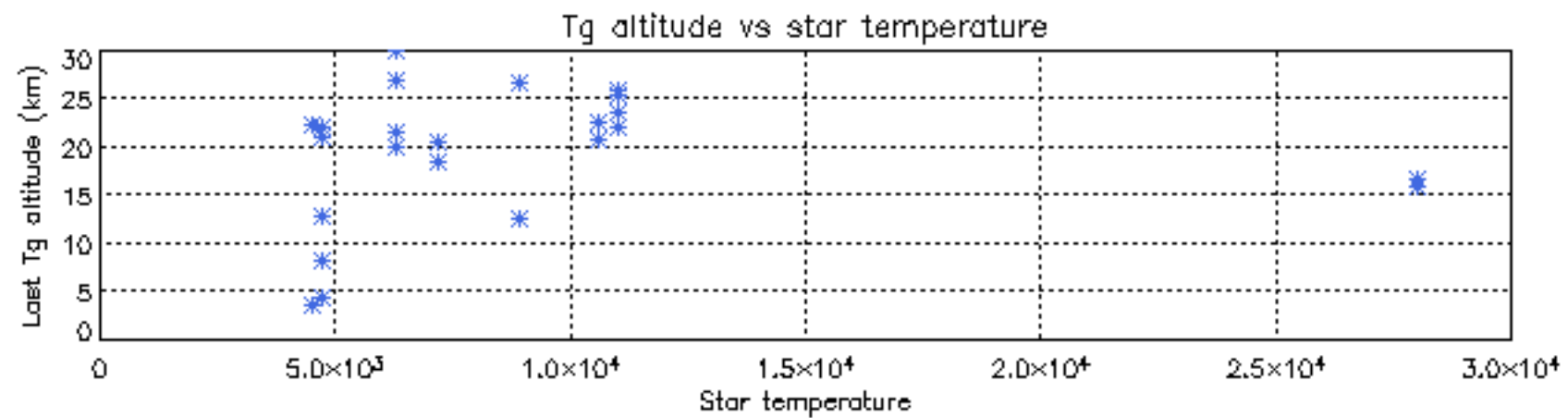
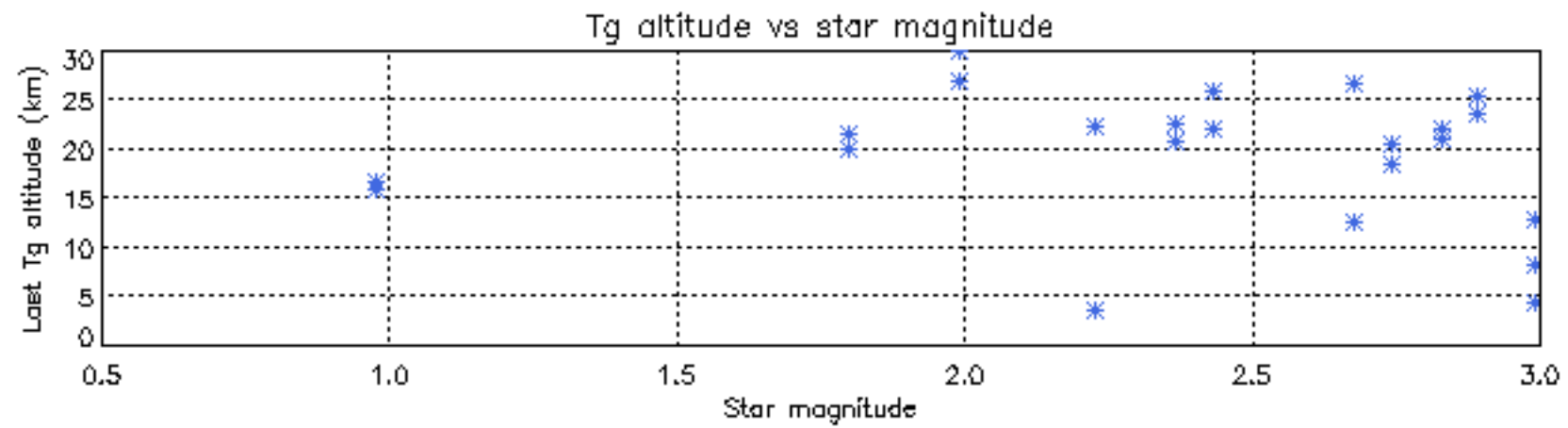
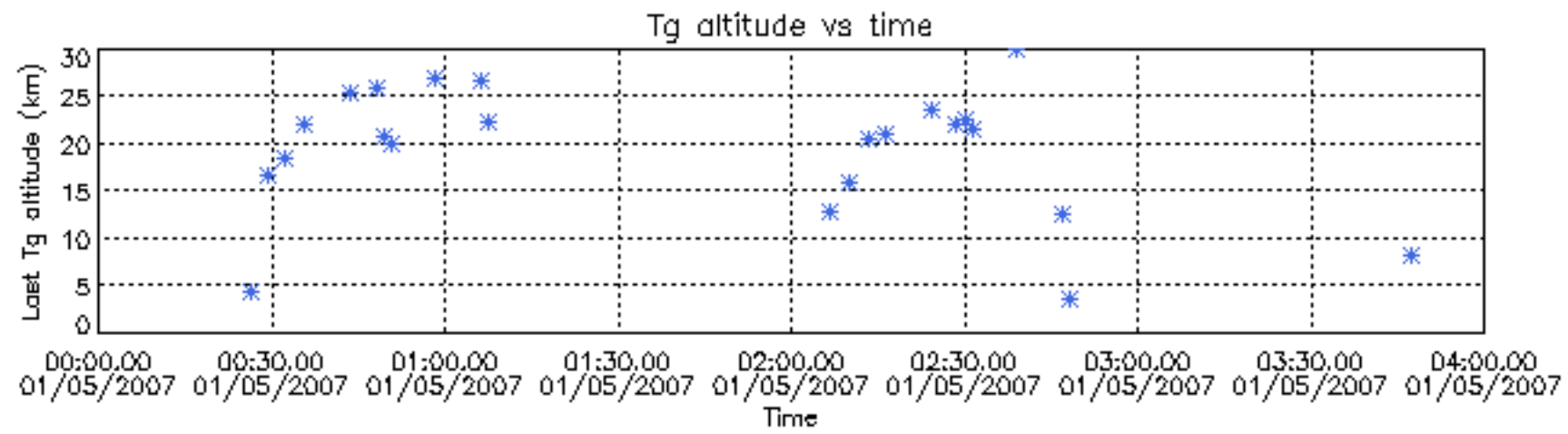


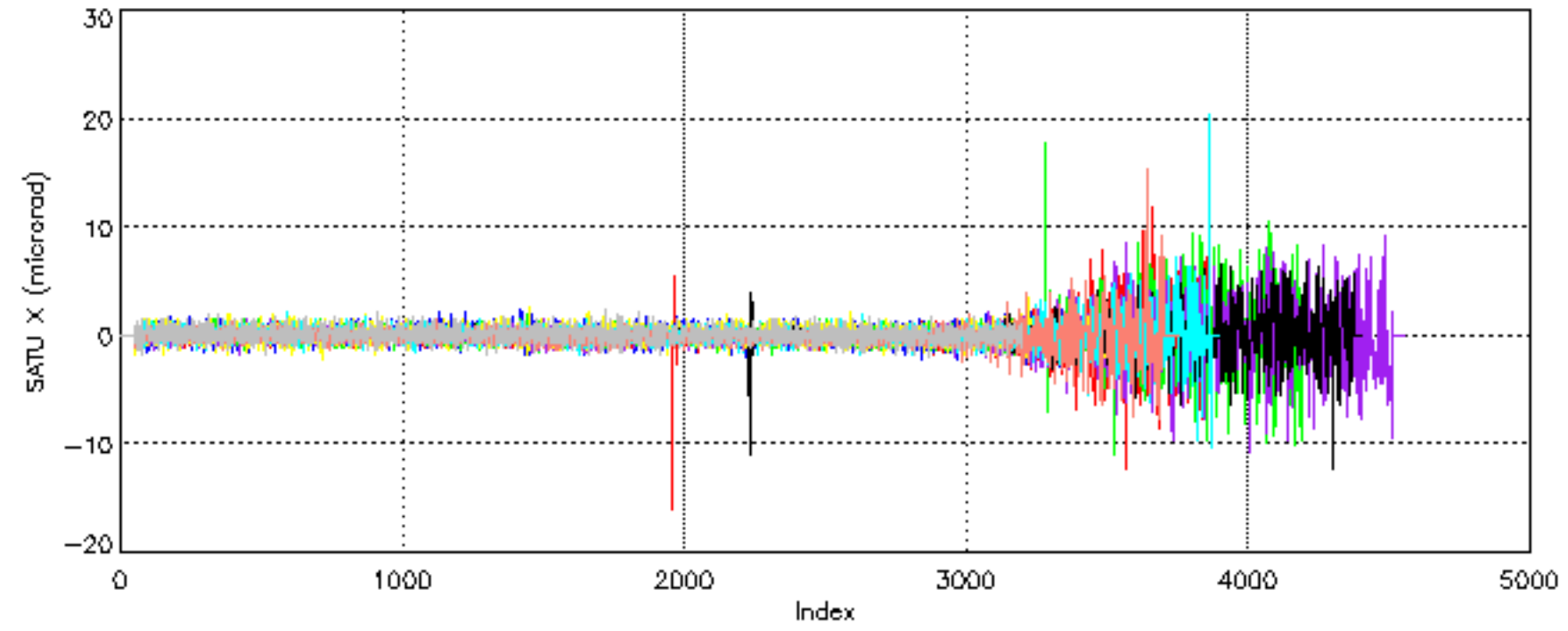
Tangent altitude at which the star is lost

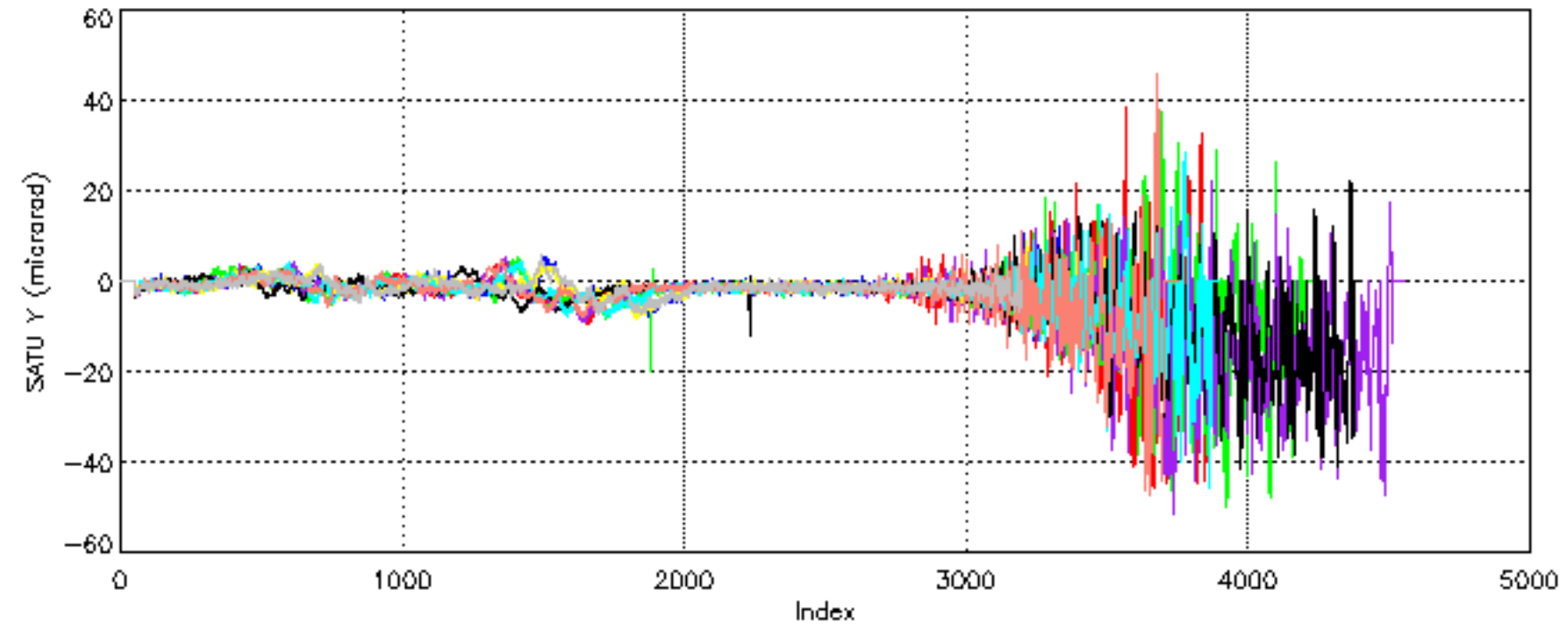




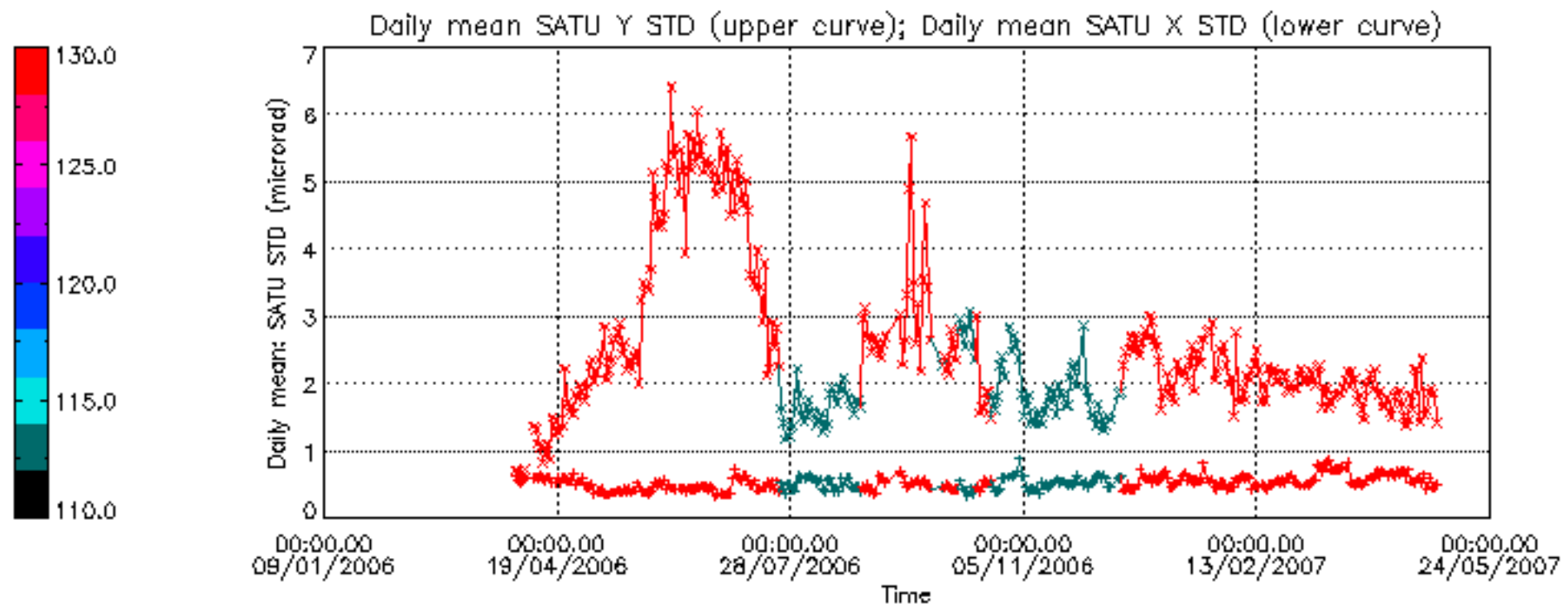
Tangent altitude at which the star is lost











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 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011  
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011  
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011  
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 9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012  
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3; 1257.2; 01-MAY-2007 20:28:26; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;27022
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3; -143.9; 01-MAY-2007 21:45:40; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27022
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6; 711.6; 01-MAY-2007 21:59:56; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27023
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3; 2926.1; 03-MAY-2007 13:10:37; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;27046
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6; 4003.3; 03-MAY-2007 15:09:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27047
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16; 2560.6; 05-MAY-2007 00:17:06; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27067  
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22; 4004.8; 05-MAY-2007 00:41:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27067  
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6; 24.8; 04-MAY-2007 06:48:51; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27057  
7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057  
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057  
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;27057  
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11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057  
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057  
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057  
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3; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
4; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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5; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
6; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
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15; 6628.2; 04-MAY-2007 08:38:54; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;27057
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17; 6879.5; 04-MAY-2007 08:43:06; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;27057
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22; 7753.5; 04-MAY-2007 08:57:40; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27057
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3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
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5; -471.9; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
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3; 2099.3; 04-MAY-2007 10:44:37; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27059  
4; 2560.2; 04-MAY-2007 10:52:18; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27059  
5; 2840.3; 04-MAY-2007 10:56:58; Bright; 35.5; 87; 64Gam UMA ; 2.43; 11000;occ; 71; 0;27059  
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 9; 3924.6; 04-MAY-2007 12:55:38; Bright; 32.5; 110; 37Del Cas ; 2.68; 8900;occ; 65; 0;27060  
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7; 845.9; 05-MAY-2007 01:29:07; Dark ; 39.5; 4; Alp1Cen ; -0.01; 5800;occ; 79; 0;27068
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19; 7179.4; 04-MAY-2007 12:09:17; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27059
20; 7302.1; 04-MAY-2007 12:11:20; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27059
21; 7556.1; 04-MAY-2007 12:15:34; Bright; 36.0; 169; 46Gam Hya ; 2.99; 4700;occ; 72; 0;27059
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2;-2031.6; 04-MAY-2007 12:56:58; Bright; 2.5; 68; 18Alp Cas ; 2.22; 4500;occ; 5; 0;27060
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2;-121.8; 04-MAY-2007 13:28:48; Dark ; 9.5; 31; Alp Gru ; 1.73; 15200;occ; 19; 0;27060
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2; 593.3; 04-MAY-2007 13:40:43; Dark ; 22.5; 43; Alp TrA ; 1.91; 4250;occ; 45; 0;27061
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3; 2845.2; 04-MAY-2007 14:18:15; Bright; 34.0; 55; 79Zet UMa ; 2.06; 10200;occ; 68; 0;27061  
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3; 3445.3; 04-MAY-2007 14:28:15; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27061  
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13; 5739.9; 05-MAY-2007 12:54:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27074  
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9; 396.6; 23-MAY-2007 06:57:56; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329
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16; 6433.2; 23-MAY-2007 08:38:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329  
17; 6842.3; 23-MAY-2007 08:45:22; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27329  
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13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330  
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14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331  
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16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331  
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18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331  
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21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331  
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331  
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
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3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27333	
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	;	2.73;	4700;occ;	116;	0;	27333	
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	27333	
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	27333	
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11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	27333	
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	90;	0;	27333	
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27333	
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16;	6012.4;	23-MAY-2007	15:13:56;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	27333	
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;	27333	
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19;	6844.0;	23-MAY-2007	15:27:47;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	27333	
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	27333	
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22;	7244.0;	23-MAY-2007	15:34:27;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	98;	0;	27333	
23;	7416.1;	23-MAY-2007	15:37:19;	Dark	;	3.0;	16;	21Alp Sco	;	1.02;	3000;occ;	6;	0;	27333

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3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	69;	0;	27334	
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	;	2.61;	13100;occ;	73;	0;	27334	
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27334	
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27334	
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27334	
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27334	
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	27334	
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11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	;	2.30;	30000;occ;	74;	0;	27334	
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13;	4532.4;	23-MAY-2007	16:29:52;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	91;	0;	27334	
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27334	
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	86;	0;	27334	
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27334	
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	99;	0;	27334	
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	27334	
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27334	
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	27334	
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22; 7142.1; 26-MAY-2007 13:57:55; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;27375
23; 7259.2; 26-MAY-2007 13:59:52; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27375
24; 7387.4; 26-MAY-2007 14:02:00; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;27375
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 9; 2369.2; 26-MAY-2007 17:40:10; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27378  
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6; 434.5; 27-MAY-2007 01:30:55; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27383
7; 829.3; 27-MAY-2007 01:37:29; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27383
8; 999.6; 27-MAY-2007 01:40:20; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27383
9; 1109.5; 27-MAY-2007 01:42:10; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;27383
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