

# GOMOS Daily Report 03-NOV-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	05NOV2007 05:35:51
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (03NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

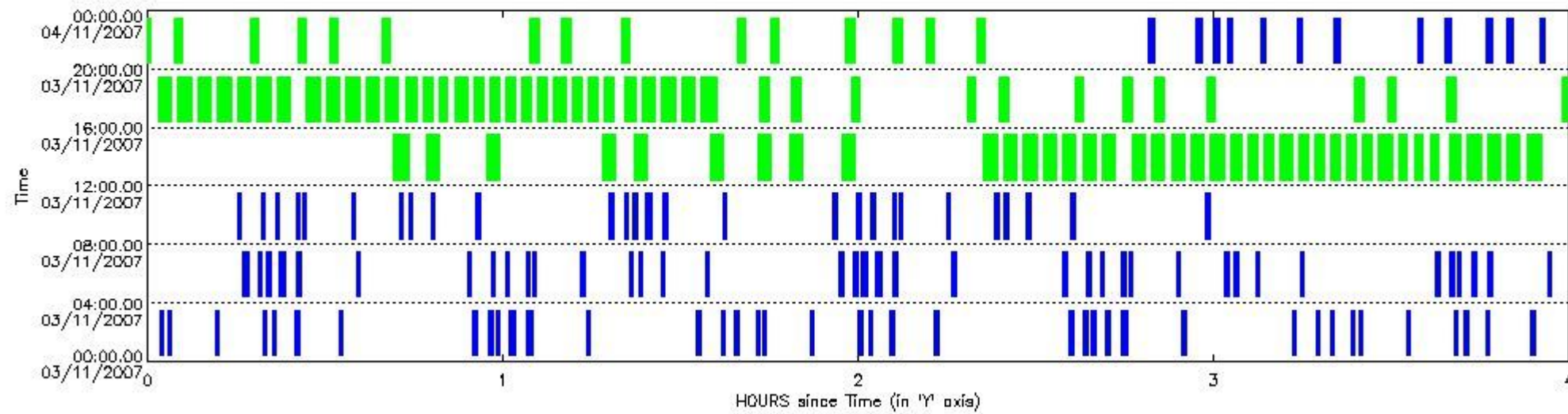
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

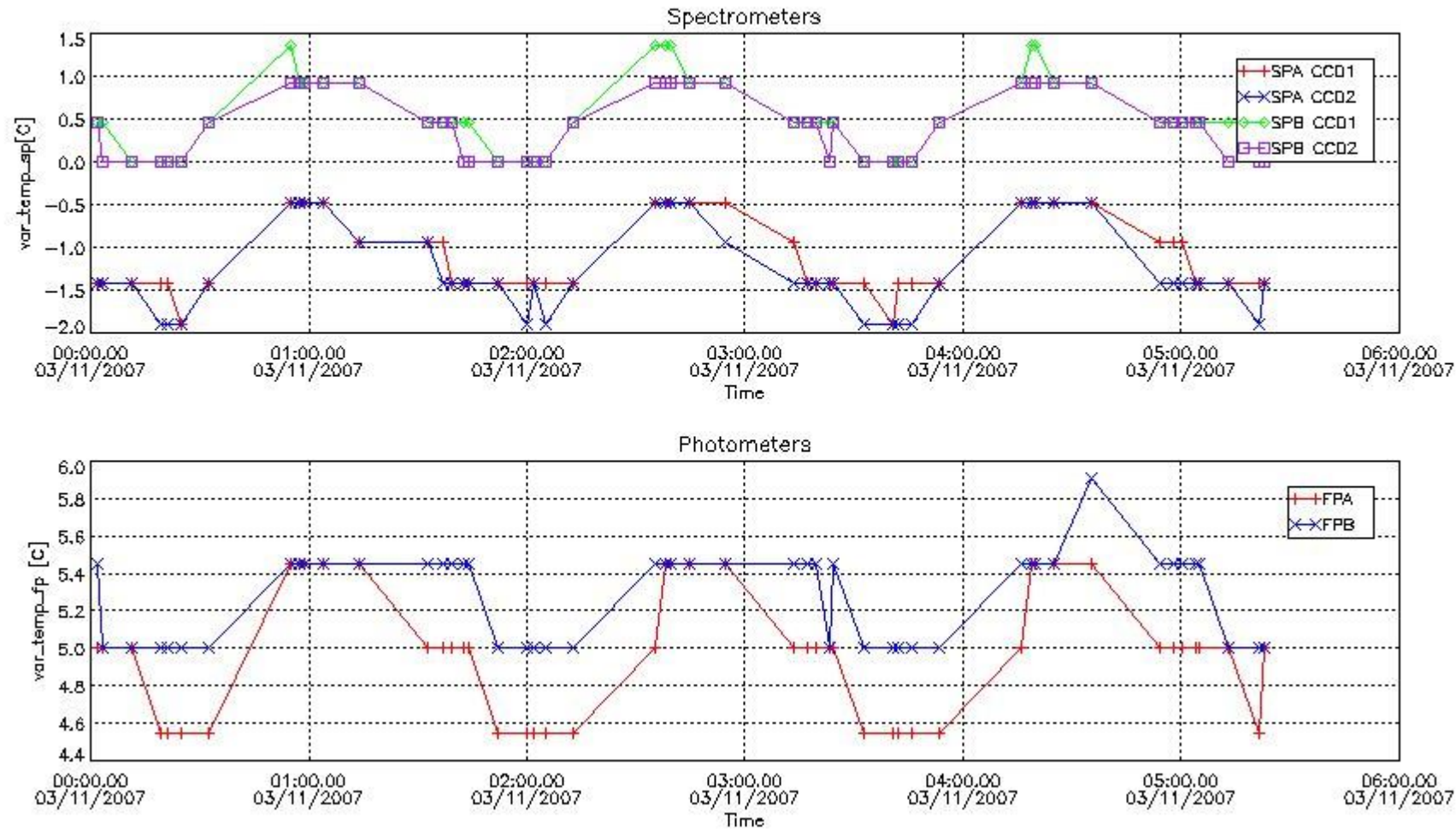
No missing products.

### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071103_000204_000000362063_00059_29672_1839.N1	03-NOV-2007 00:02:04	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29672	No
2	GOM_TRA_1PNPDE20071103_000314_000000352063_00059_29672_1840.N1	03-NOV-2007 00:03:14	Bright	35.000	76	27Gam Cas	2.3000	30000.0	70	29672	No
3	GOM_TRA_1PNPDE20071103_001119_000000362063_00059_29672_1841.N1	03-NOV-2007 00:11:19	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29672	No
4	GOM_TRA_1PNPDE20071103_001926_000000402063_00059_29672_1842.N1	03-NOV-2007 00:19:26	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29672	No
5	GOM_TRA_1PNPDE20071103_002103_000000382063_00059_29672_1843.N1	03-NOV-2007 00:21:03	Bright	37.500	82	48Bet UMa	2.3650	10600.0	75	29672	No
6	GOM_TRA_1PNPDE20071103_002446_000000552063_00059_29672_1844.N1	03-NOV-2007 00:24:46	Bright	54.500	174	52Psi UMa	3.0040	4400.0	109	29672	No
7	GOM_TRA_1PNPDE20071103_003215_000000382063_00059_29672_1845.N1	03-NOV-2007 00:32:15	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29672	No
8	GOM_TRA_1PNPDE20071103_005451_000000492063_00060_29673_1994.N1	03-NOV-2007 00:54:51	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	29673	No
9	GOM_TRA_1PNPDE20071103_005722_000000492063_00060_29673_1995.N1	03-NOV-2007 00:57:22	Dark	49.000	46	Del Vel	1.9540	10600.0	98	29673	No
10	GOM_TRA_1PNPDE20071103_005841_000000412063_00060_29673_1996.N1	03-NOV-2007 00:58:41	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29673	No
11	GOM_TRA_1PNPDE20071103_010353_000000592063_00060_29673_1997.N1	03-NOV-2007 01:03:53	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	29673	No
12	GOM_TRA_1PNPDE20071103_011400_000000402063_00060_29673_1998.N1	03-NOV-2007 01:14:00	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29673	No

13	GOM_TRA_1PNPDE20071103_013242_000000392063_00060_29673_1999.N1	03-NOV-2007 01:32:42	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29673	No
14	GOM_TRA_1PNPDE20071103_013646_000000392063_00060_29673_2000.N1	03-NOV-2007 01:36:46	Bright	38.500	53	43Bet And	2.0480	3300.0	77	29673	No
15	GOM_TRA_1PNPDE20071103_013907_000000412063_00060_29673_2001.N1	03-NOV-2007 01:39:07	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29673	No
16	GOM_TRA_1PNPDE20071103_014240_000000352063_00060_29673_2002.N1	03-NOV-2007 01:42:40	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29673	No
17	GOM_TRA_1PNPDE20071103_014350_000000362063_00060_29673_2003.N1	03-NOV-2007 01:43:50	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29673	No
18	GOM_TRA_1PNPDE20071103_015155_000000332063_00060_29673_2004.N1	03-NOV-2007 01:51:55	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29673	No
19	GOM_TRA_1PNPDE20071103_020002_000000412063_00060_29673_2005.N1	03-NOV-2007 02:00:02	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29673	No
20	GOM_TRA_1PNPDE20071103_020138_000000372063_00060_29673_2006.N1	03-NOV-2007 02:01:38	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29673	No
21	GOM_TRA_1PNPDE20071103_020522_000000382063_00060_29673_2007.N1	03-NOV-2007 02:05:22	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29673	No
22	GOM_TRA_1PNPDE20071103_021251_000000382063_00060_29673_2008.N1	03-NOV-2007 02:12:51	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29673	No
23	GOM_TRA_1PNPDE20071103_023528_000000462063_00061_29674_2140.N1	03-NOV-2007 02:35:28	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	29674	No
24	GOM_TRA_1PNPDE20071103_023759_000000422063_00061_29674_2141.N1	03-NOV-2007 02:37:59	Dark	42.000	46	Del Vel	1.9540	10600.	84	29674	No
25	GOM_TRA_1PNPDE20071103_023918_000000432063_00061_29674_2142.N1	03-NOV-2007 02:39:18	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29674	No
26	GOM_TRA_1PNPDE20071103_024430_000000562063_00061_29674_2143.N1	03-NOV-2007 02:44:30	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	29674	No
27	GOM_TRA_1PNPDE20071103_025436_000000382063_00061_29674_2144.N1	03-NOV-2007 02:54:36	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29674	No
28	GOM_TRA_1PNPDE20071103_031318_000000392063_00061_29674_2145.N1	03-NOV-2007 03:13:18	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29674	No
29	GOM_TRA_1PNPDE20071103_031722_000000382063_00061_29674_2146.N1	03-NOV-2007 03:17:22	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29674	No
30	GOM_TRA_1PNPDE20071103_031942_000000402063_00061_29674_2147.N1	03-NOV-2007 03:19:42	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29674	No
31	GOM_TRA_1PNPDE20071103_032316_000000372063_00061_29674_2148.N1	03-NOV-2007 03:23:16	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29674	No
32	GOM_TRA_1PNPDE20071103_032426_000000362063_00061_29674_2149.N1	03-NOV-2007 03:24:26	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29674	No
33	GOM_TRA_1PNPDE20071103_033231_000000352063_00061_29674_2150.N1	03-NOV-2007 03:32:31	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	29674	No
34	GOM_TRA_1PNPDE20071103_034037_000000402063_00061_29674_2311.N1	03-NOV-2007 03:40:37	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29674	No
35	GOM_TRA_1PNPDE20071103_034214_000000562063_00061_29674_2312.N1	03-NOV-2007 03:42:14	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	29674	No
36	GOM_TRA_1PNPDE20071103_034557_000000382063_00061_29674_2313.N1	03-NOV-2007 03:45:57	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29674	No
37	GOM_TRA_1PNPDE20071103_035327_000000452063_00061_29674_2314.N1	03-NOV-2007 03:53:27	Bright	45.000	96	68Del Leo	2.5600	9300.0	90	29674	No
38	GOM_TRA_1PNPDE20071103_041605_000000572063_00062_29675_2315.N1	03-NOV-2007 04:16:05	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	29675	No
39	GOM_TRA_1PNPDE20071103_041836_000000402063_00062_29675_2316.N1	03-NOV-2007 04:18:36	Dark	40.000	46	Del Vel	1.9540	10600.	80	29675	No
40	GOM_TRA_1PNPDE20071103_041954_000000522063_00062_29675_2317.N1	03-NOV-2007 04:19:54	Dark	52.000	41	Eps Car	1.8600	4100.0	104	29675	No
41	GOM_TRA_1PNPDE20071103_042507_000000482063_00062_29675_2318.N1	03-NOV-2007 04:25:07	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29675	No
42	GOM_TRA_1PNPDE20071103_043513_000000402063_00062_29675_2319.N1	03-NOV-2007 04:35:13	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29675	No
43	GOM_TRA_1PNPDE20071103_045354_000000382063_00062_29675_2320.N1	03-NOV-2007 04:53:54	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29675	No
44	GOM_TRA_1PNPDE20071103_045758_000000382063_00062_29675_2321.N1	03-NOV-2007 04:57:58	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29675	No
45	GOM_TRA_1PNPDE20071103_050018_000000382063_00062_29675_2322.N1	03-NOV-2007 05:00:18	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29675	No
46	GOM_TRA_1PNPDE20071103_050352_000000362063_00062_29675_2323.N1	03-NOV-2007 05:03:52	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29675	No
47	GOM_TRA_1PNPDE20071103_050502_000000362063_00062_29675_2324.N1	03-NOV-2007 05:05:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29675	No
48	GOM_TRA_1PNPDE20071103_051307_000000372063_00062_29675_2325.N1	03-NOV-2007 05:13:07	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29675	No
49	GOM_TRA_1PNPDE20071103_052113_000000402063_00062_29675_2476.N1	03-NOV-2007 05:21:13	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29675	No
50	GOM_TRA_1PNPDE20071103_052250_000000372063_00062_29675_2477.N1	03-NOV-2007 05:22:50	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29675	No

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



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

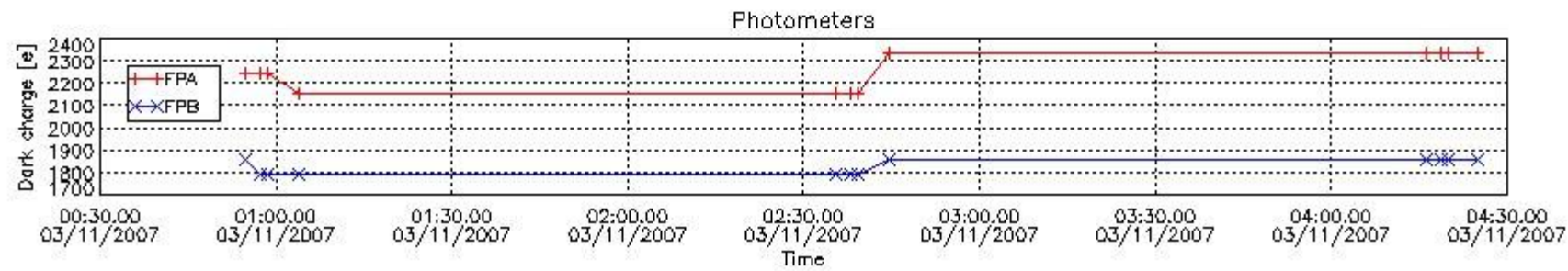
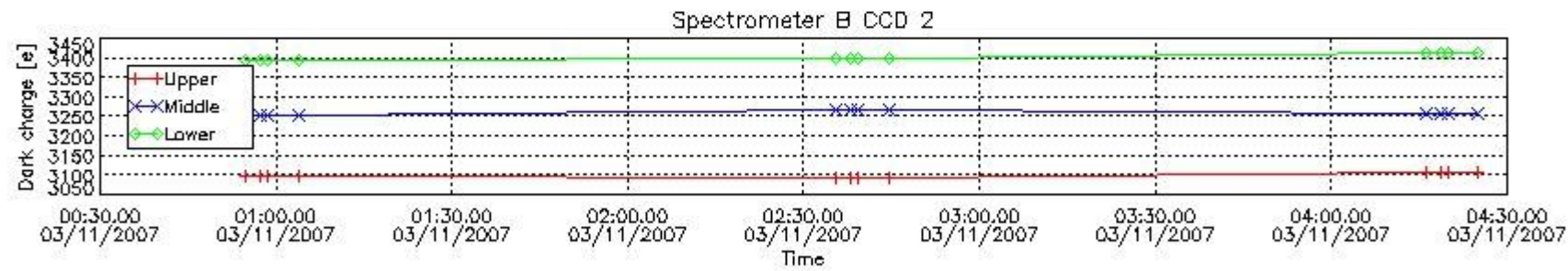
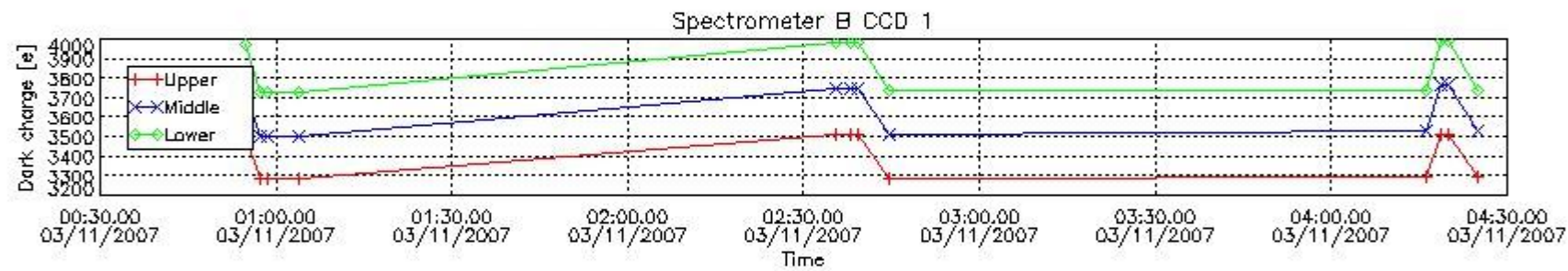
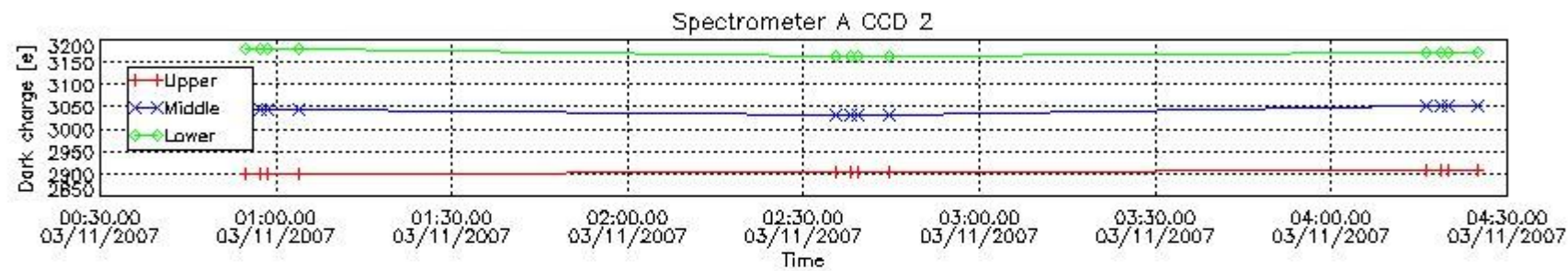
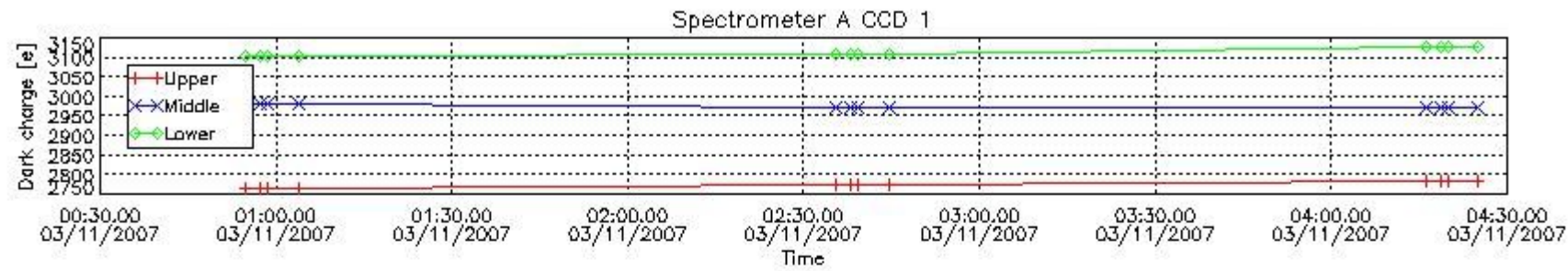
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





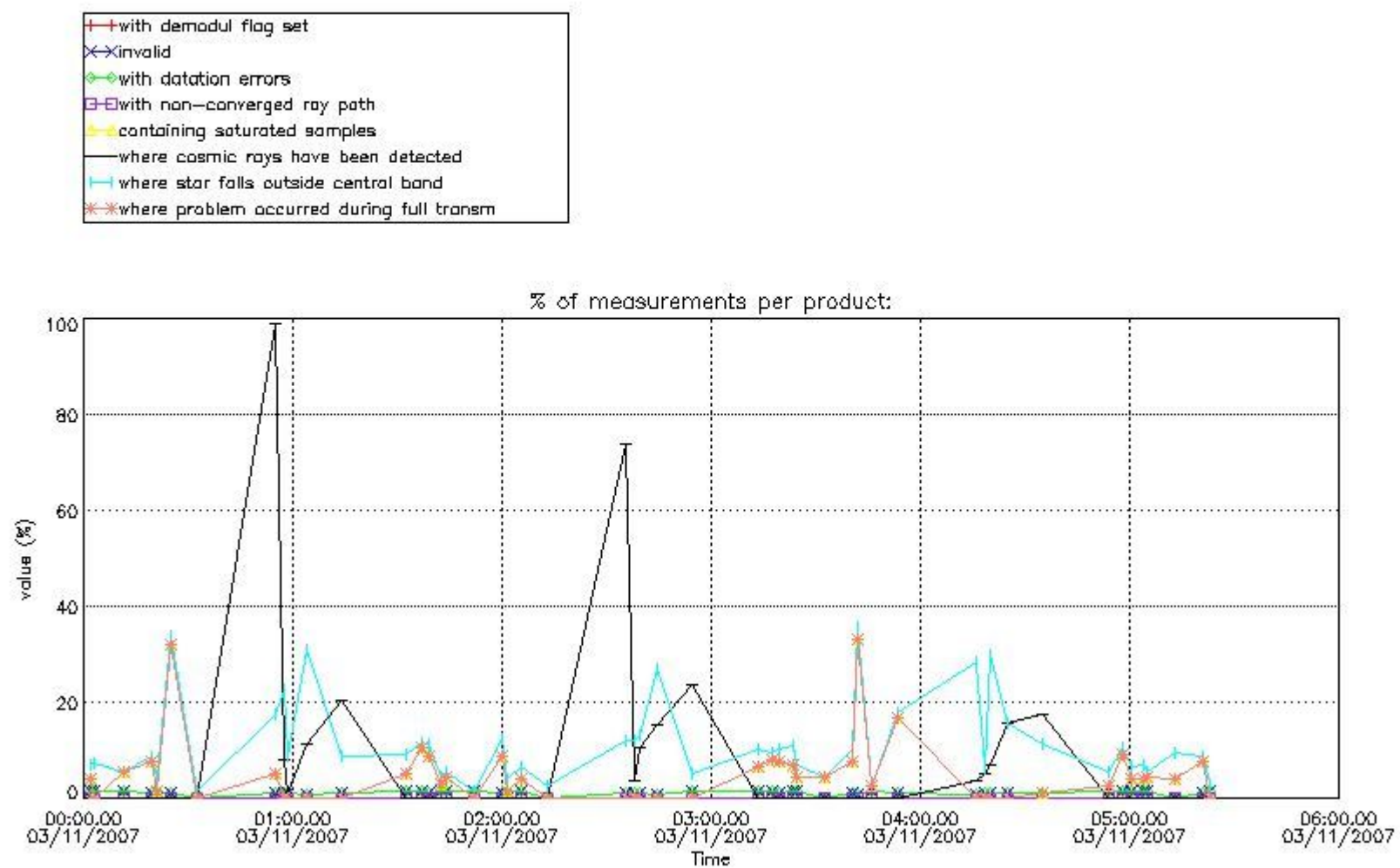
## 5. Demodulation flag and quality information monitoring

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:

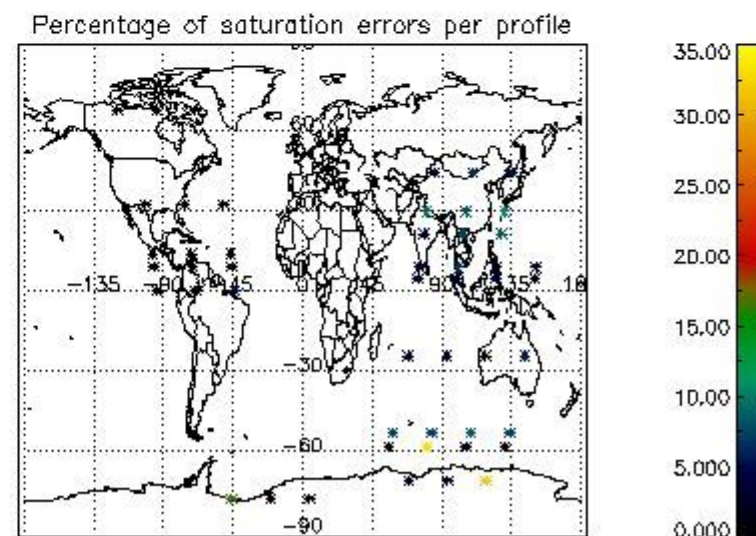
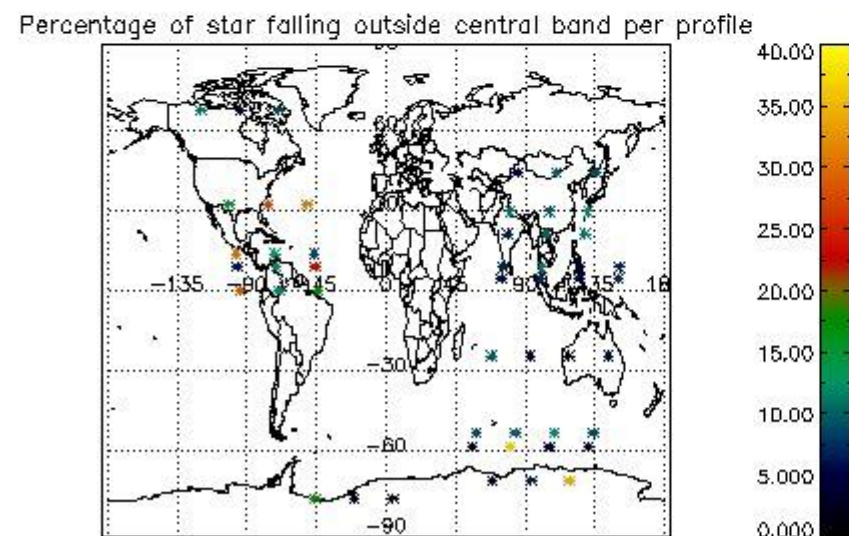
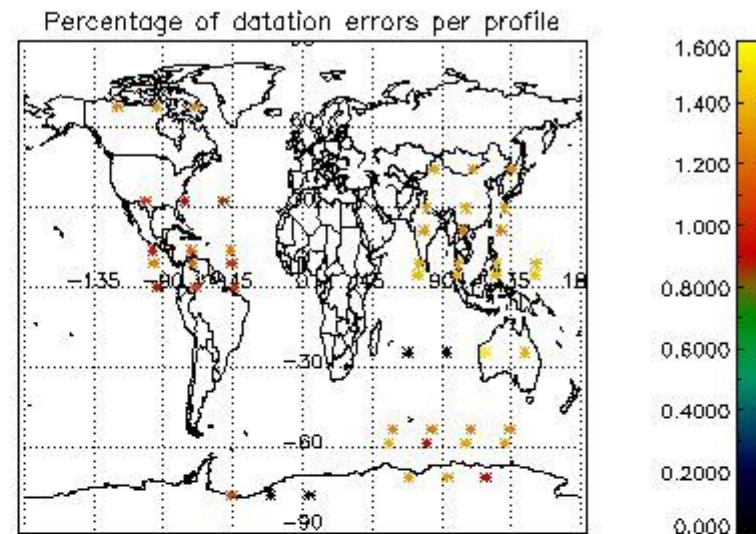
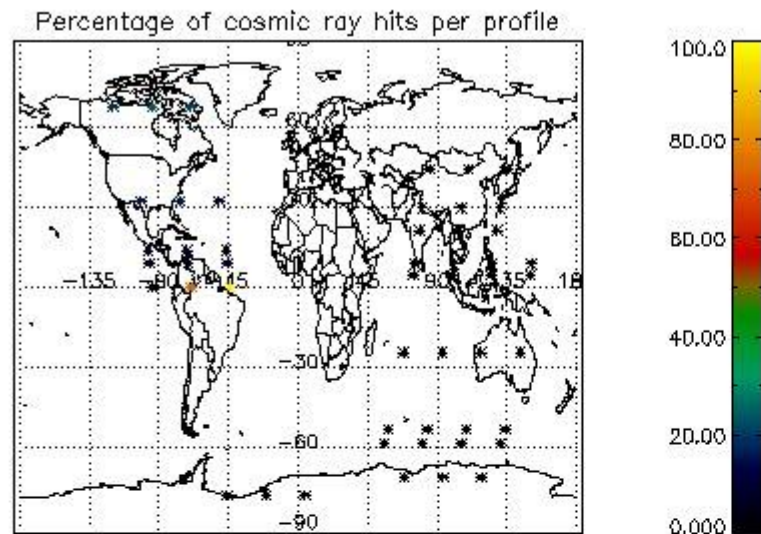
At least one measurement with demodulation flag set:	6.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





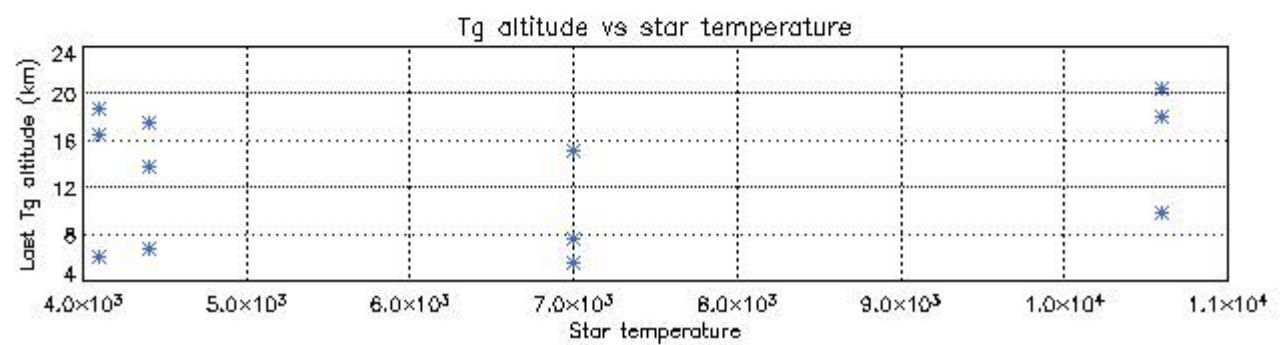
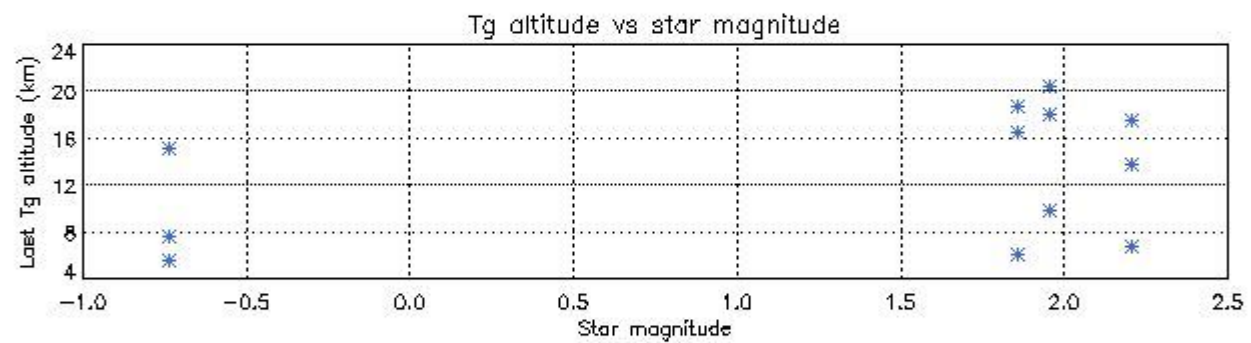
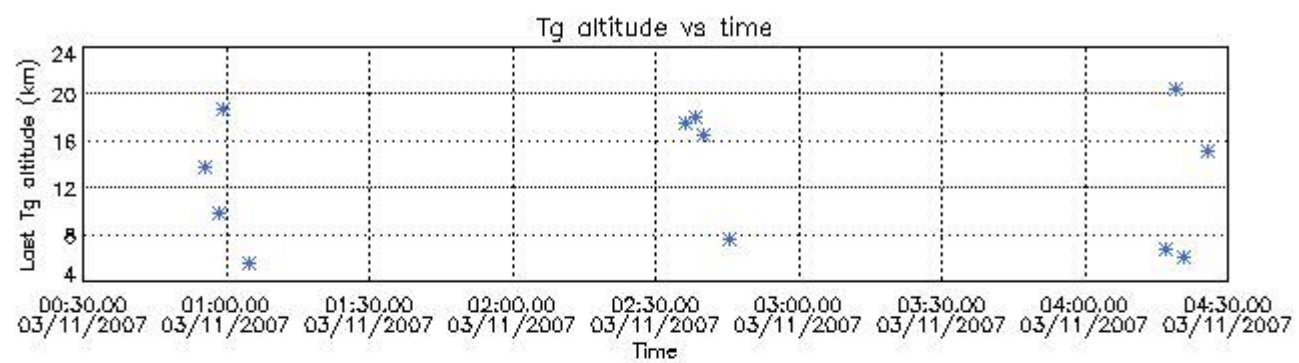
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.976	19.757	NaN
St. deviation:	5.5246	4.8125	NaN
Maximum:	20.465	28.634	NaN
Minimum:	5.4879	4.0010	NaN
Number of data:	12.000	35.000	NaN

### 6.2 Plot for DARK limb products

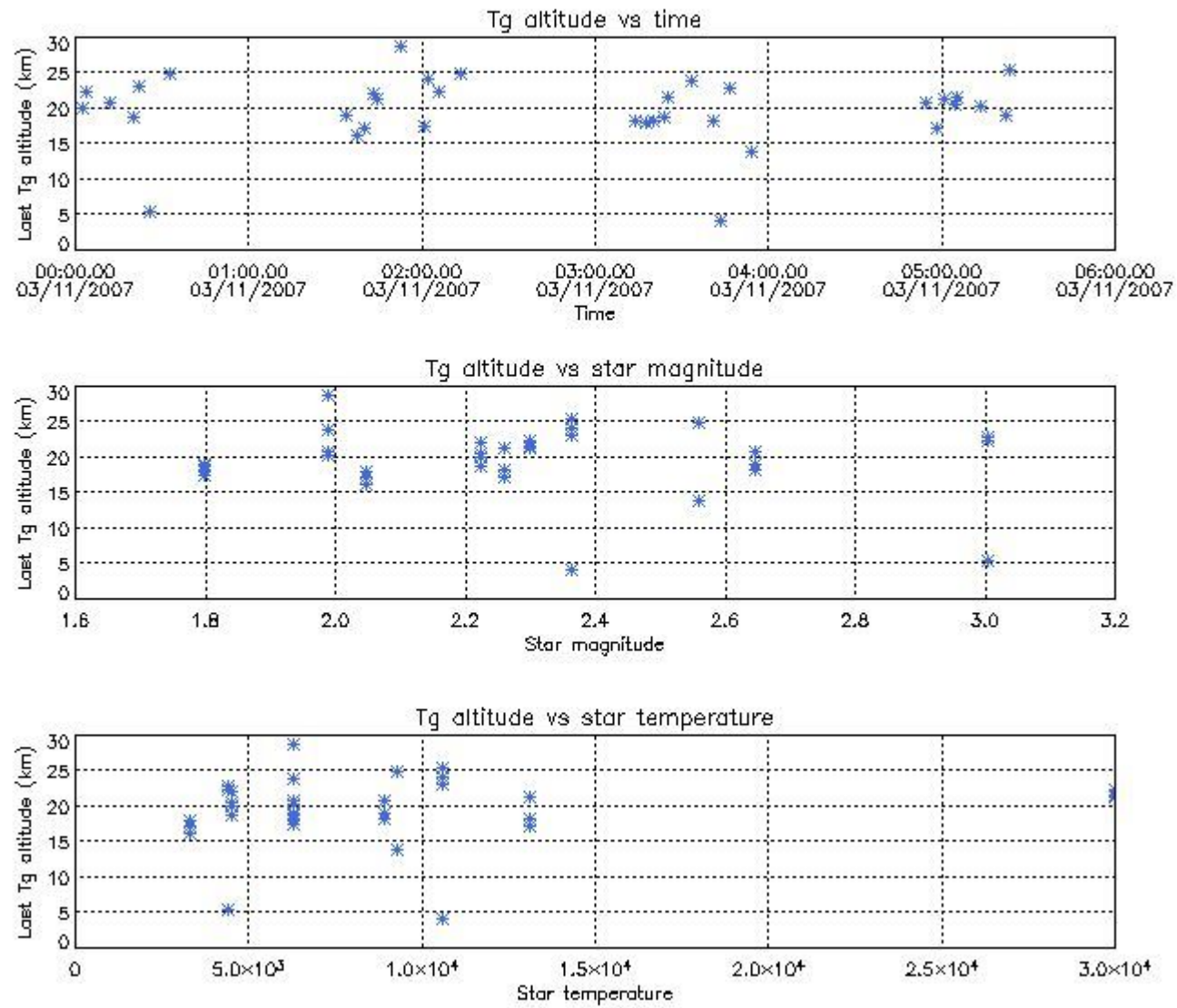
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

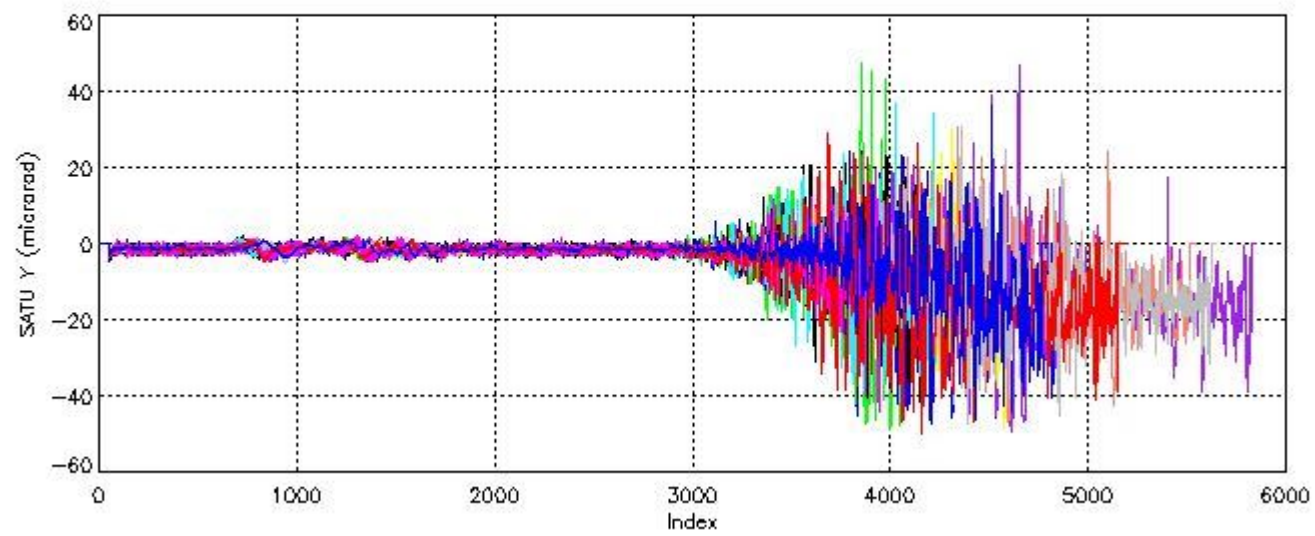
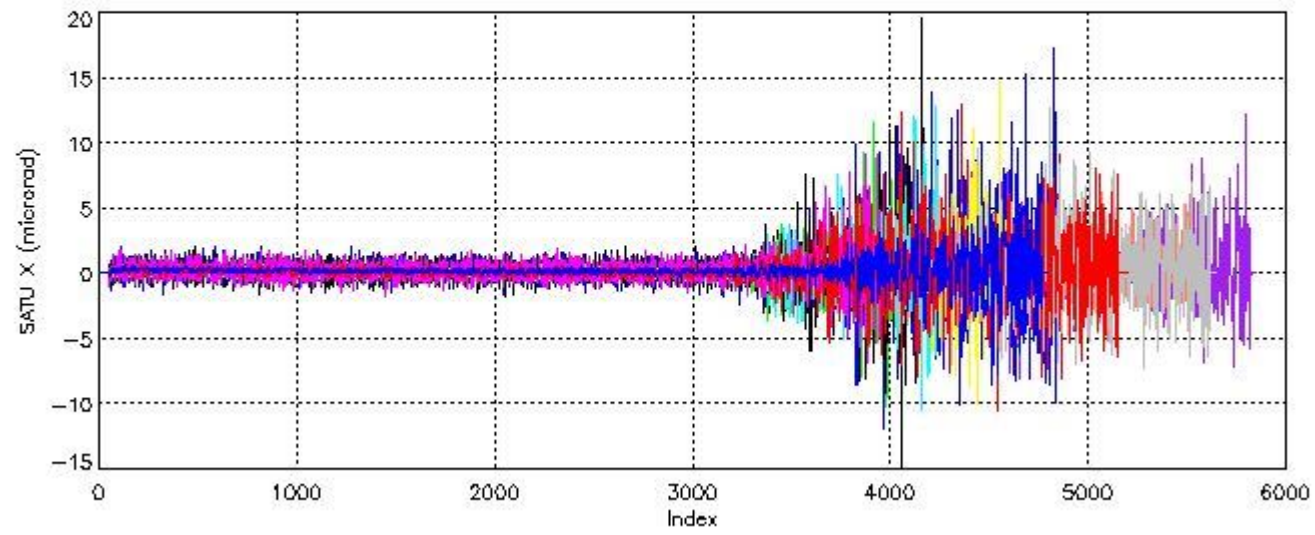


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20077	-1.3307	0.13264	-1.2632
St. deviation:	0.26592	0.82597	0.65111	1.2648
Maximum:	2.1000	2.2000	4.2000	5.1000
Minimum:	-1.6000	-5.5000	-4.3000	-7.3000

Number of data:	12000.	12000.	29750.	29750.
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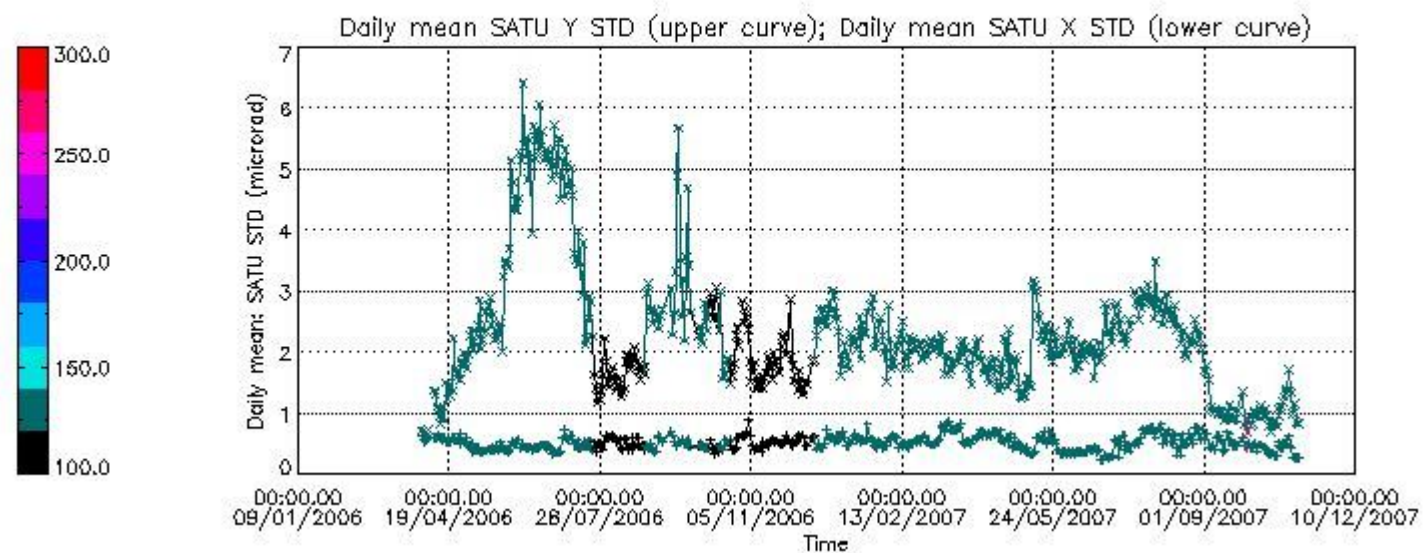
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

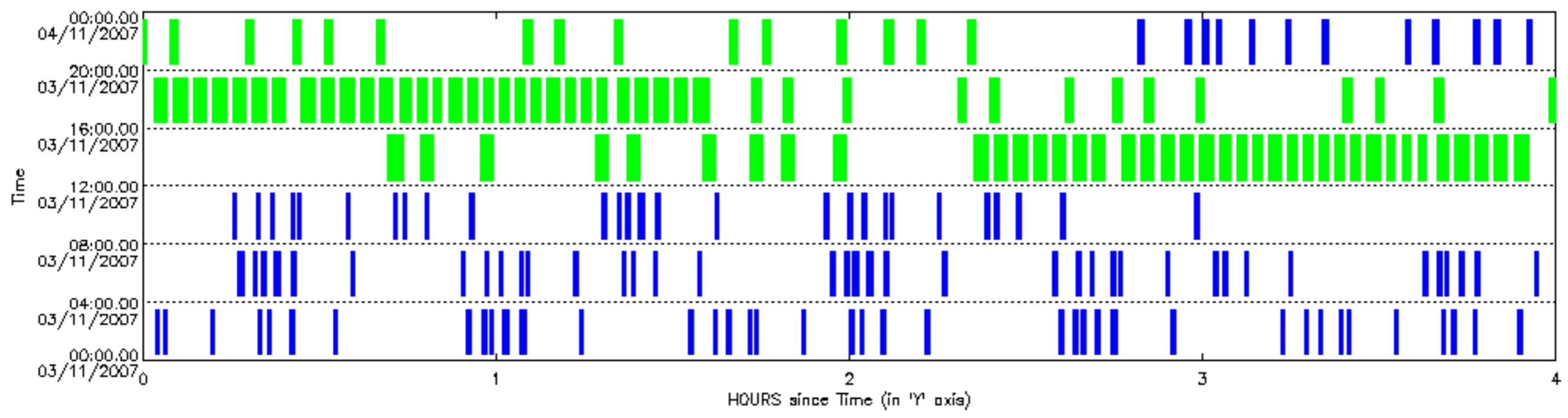


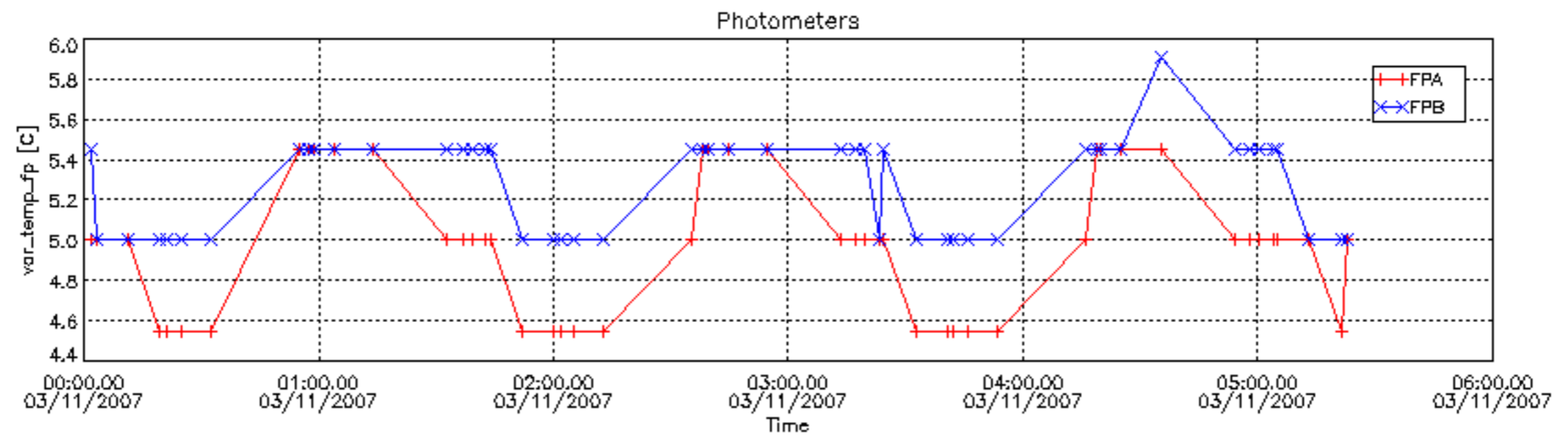
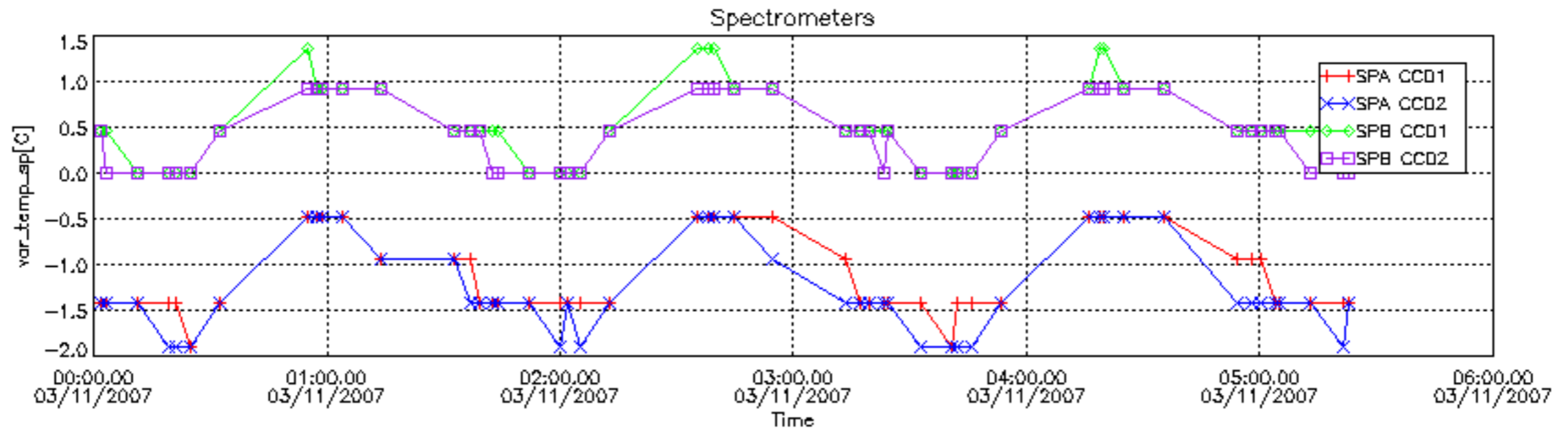
### 8. Auxiliary Data Files used for the production reported in section 2.4

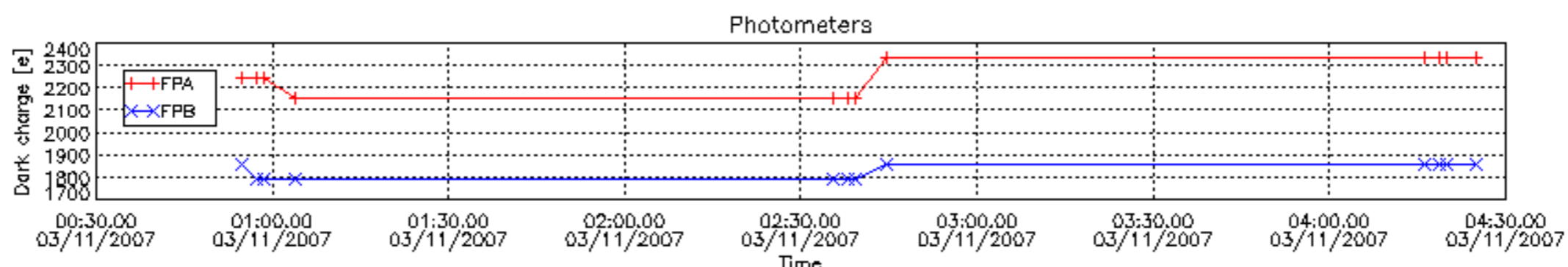
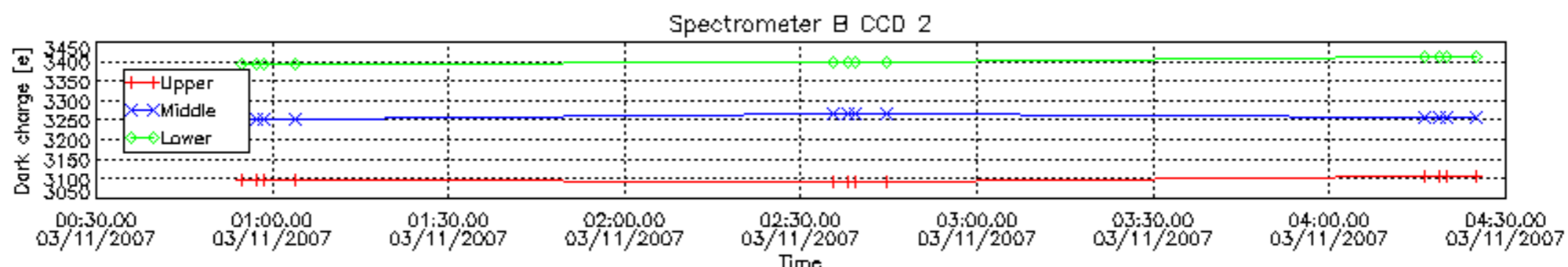
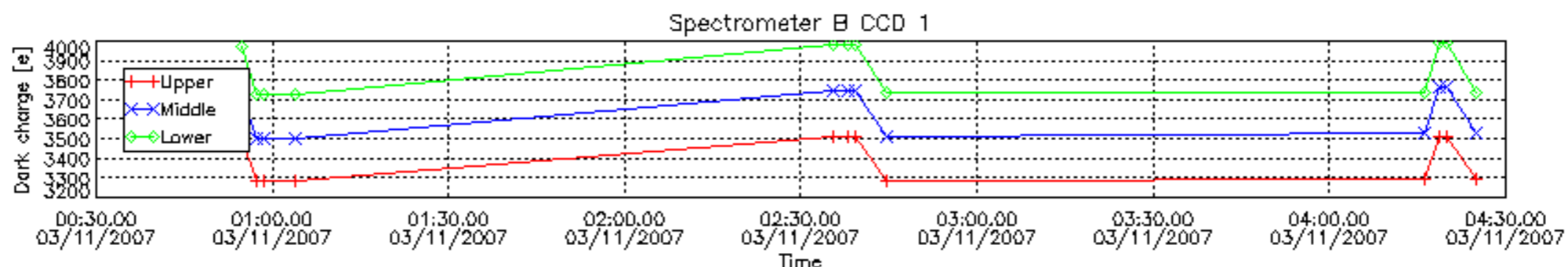
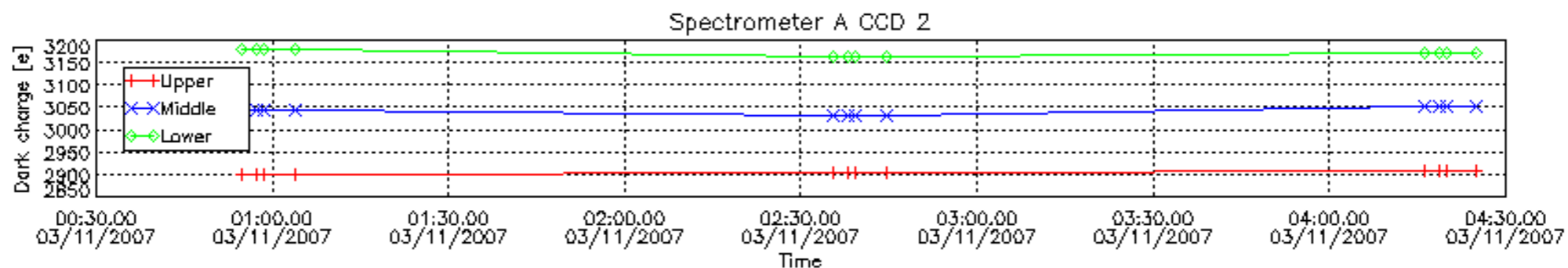
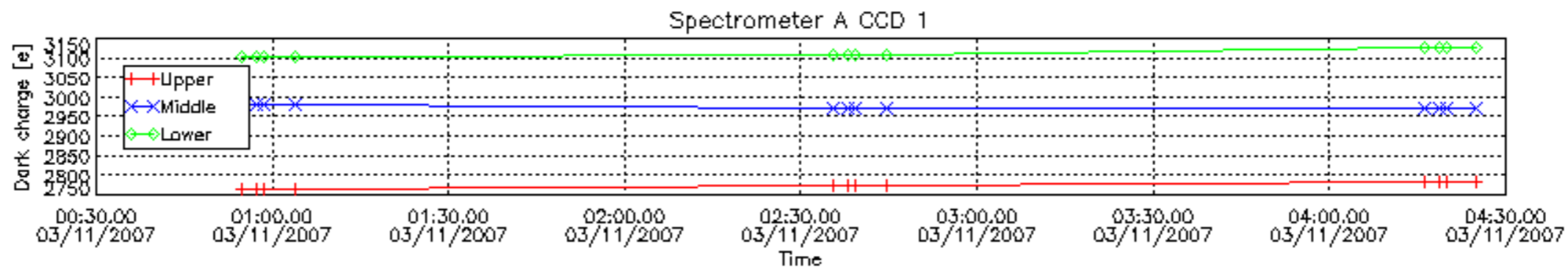
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-NOV-2007 00:02:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	03-NOV-2007 00:02:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-NOV-2007 00:02:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-NOV-2007 00:02:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-NOV-2007 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20071102_063113_20071102_210000_20071103_090000	1	03-NOV-2007 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20071102_180115_20071103_030000_20071103_150000	34	03-NOV-2007 03:40:37
OPTIONAL_ECMWF_FILE	MISSING	1	03-NOV-2007 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071102_211615_000057382063_00057_29670_4481.N1	1	03-NOV-2007 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071102_225712_000057382063_00058_29671_4482.N1	8	03-NOV-2007 00:54:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071103_003809_000054192063_00059_29672_4483.N1	23	03-NOV-2007 02:35:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071103_021347_000044632063_00060_29673_4484.N1	34	03-NOV-2007 03:40:37
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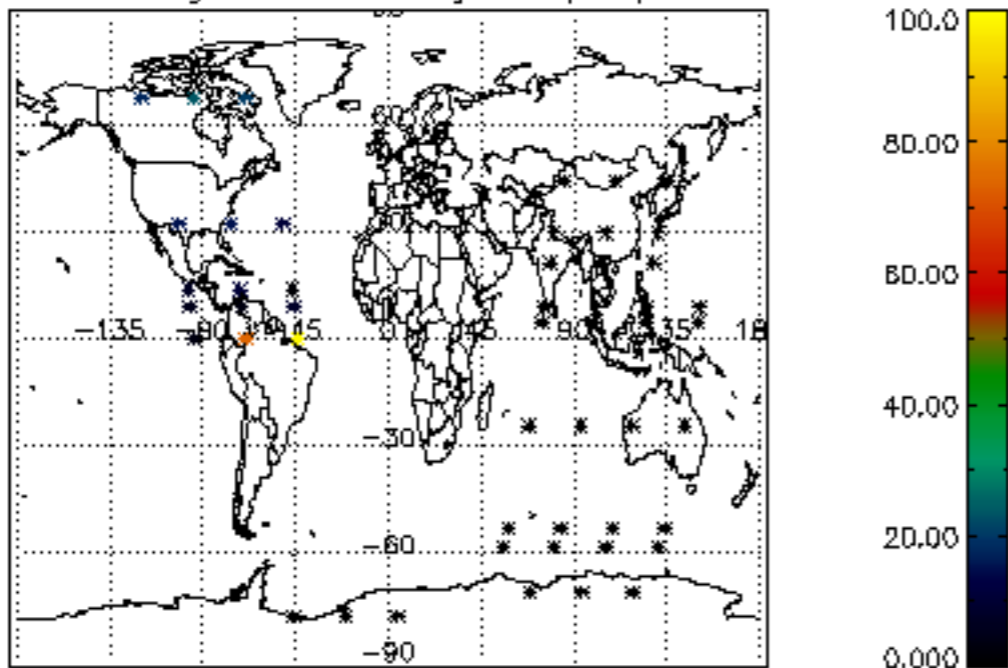




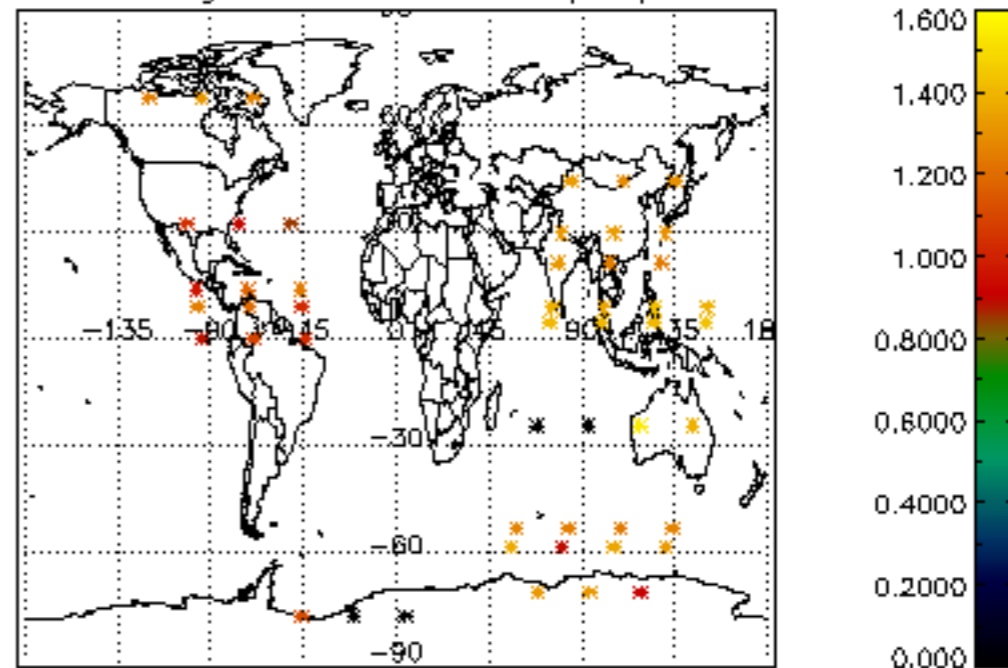




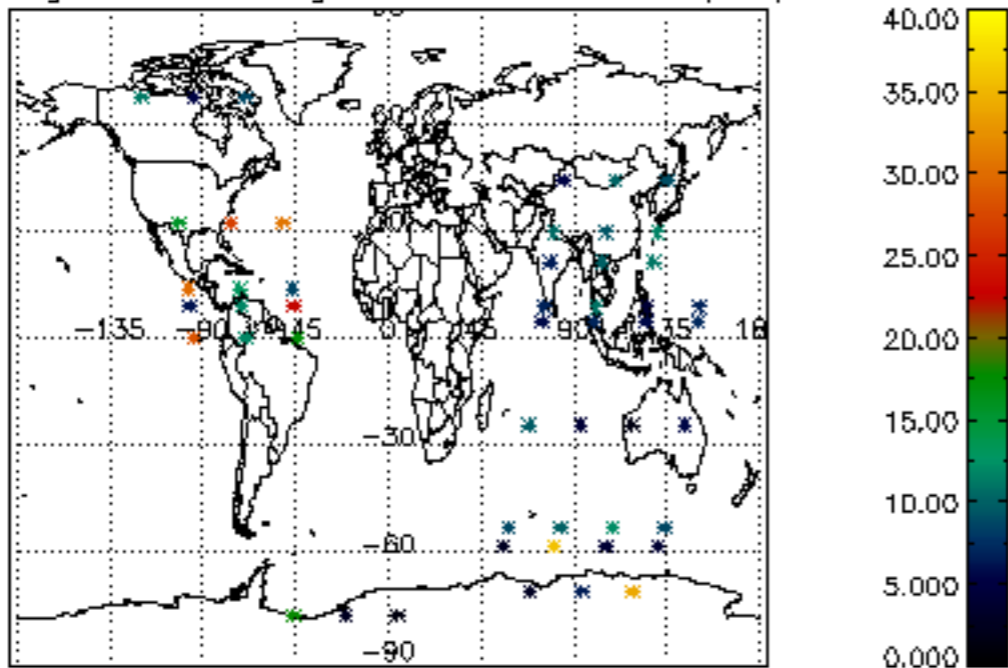
Percentage of cosmic ray hits per profile



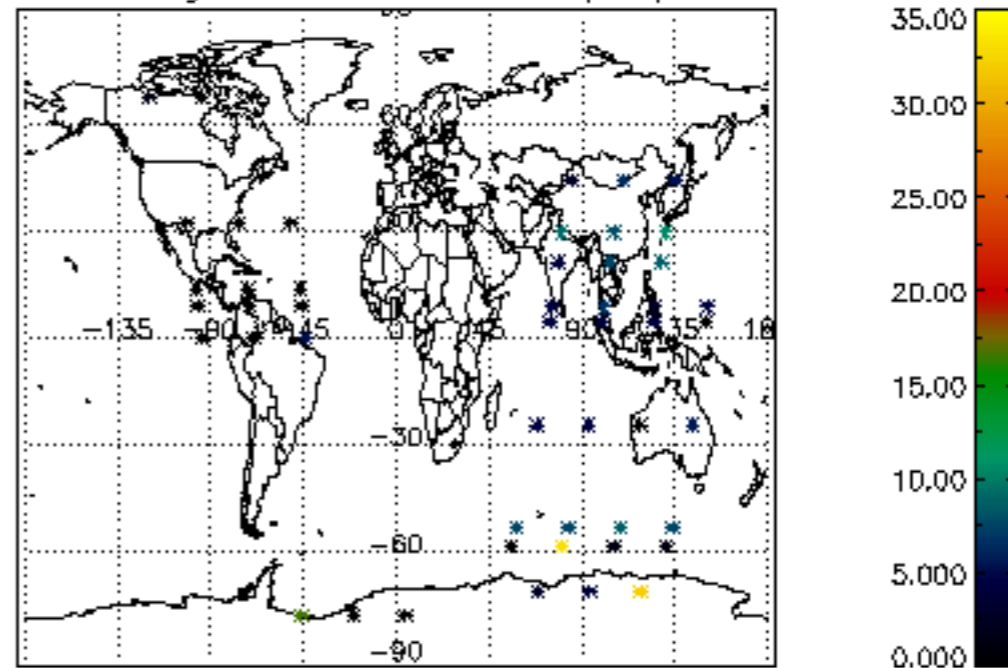
Percentage of datation errors per profile



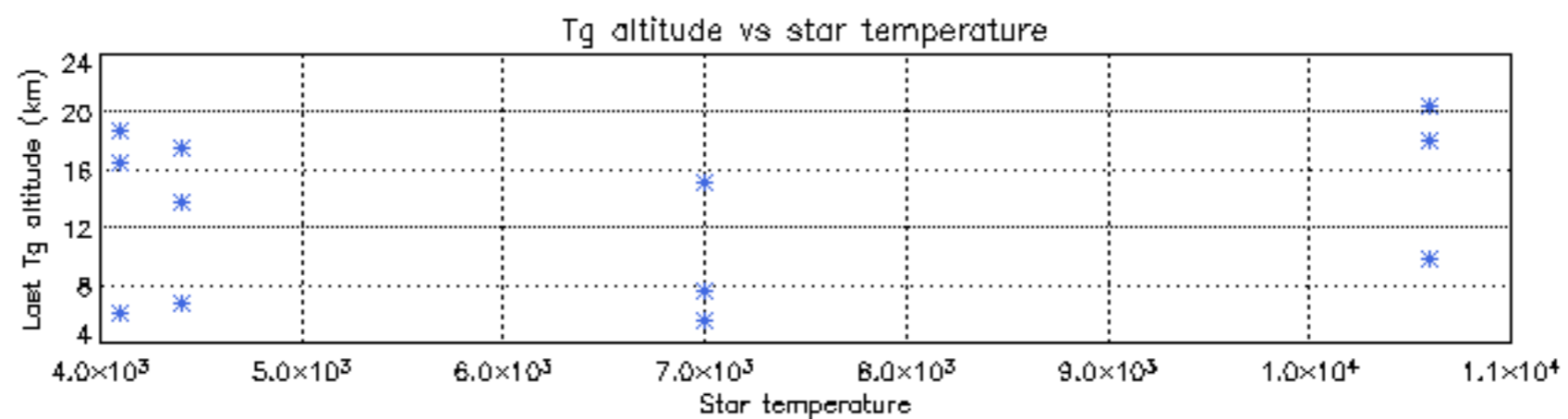
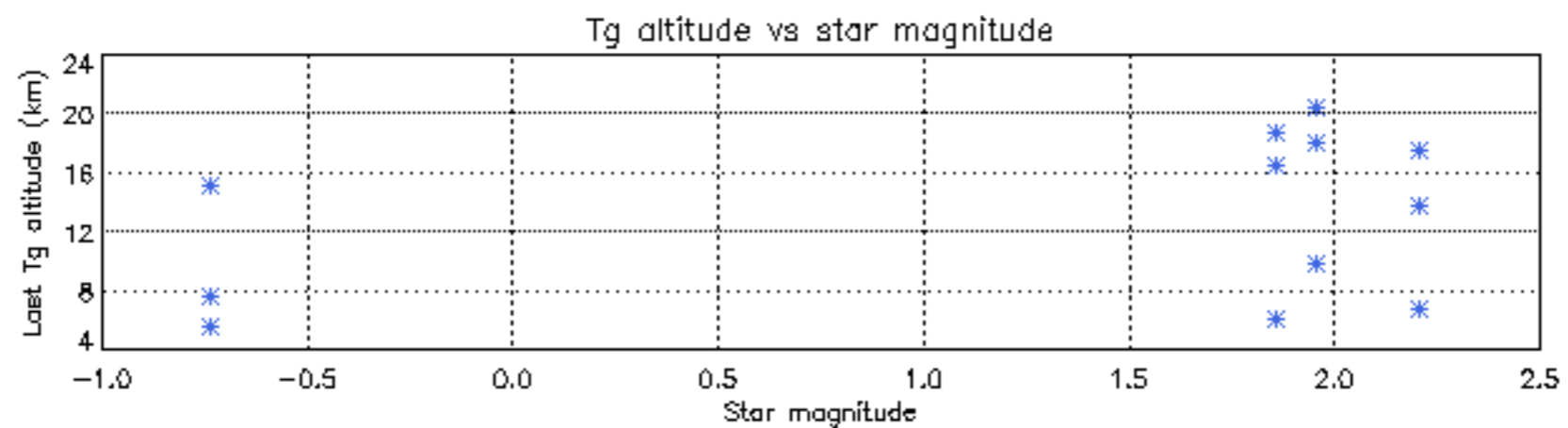
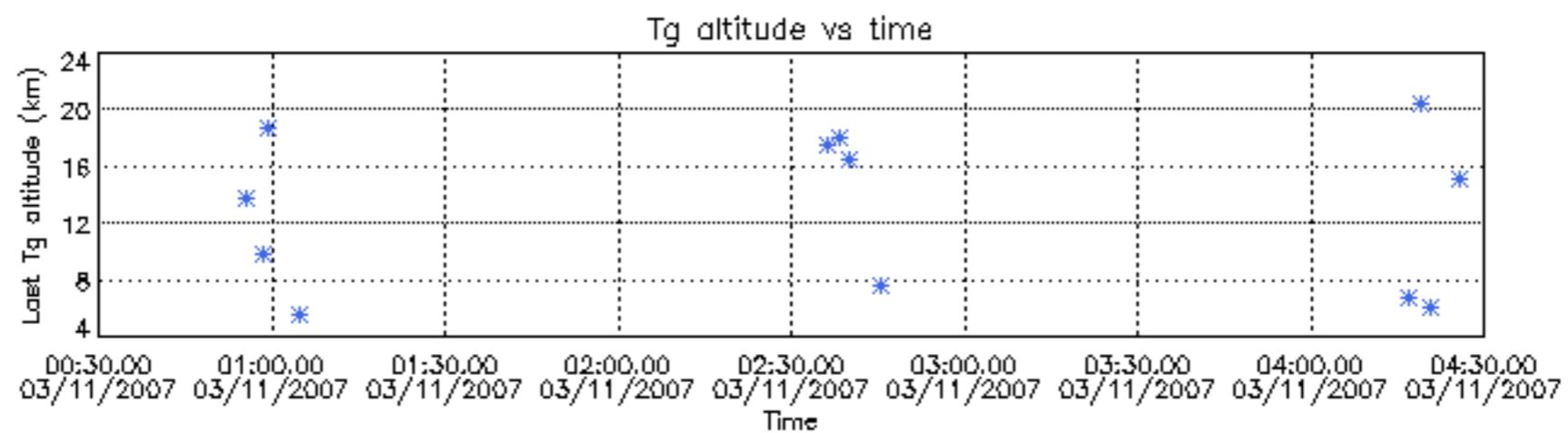
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

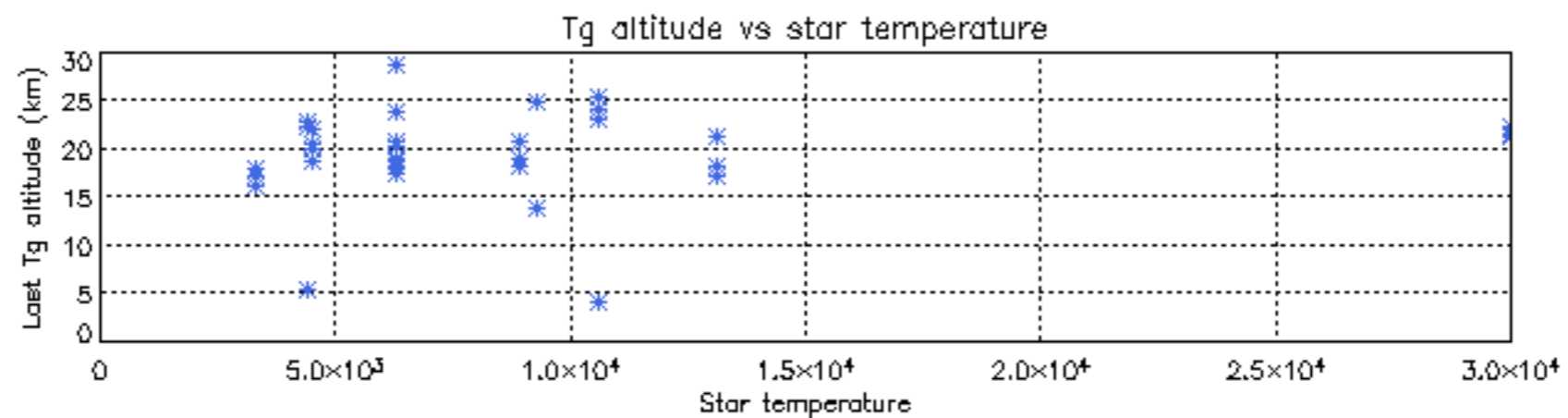
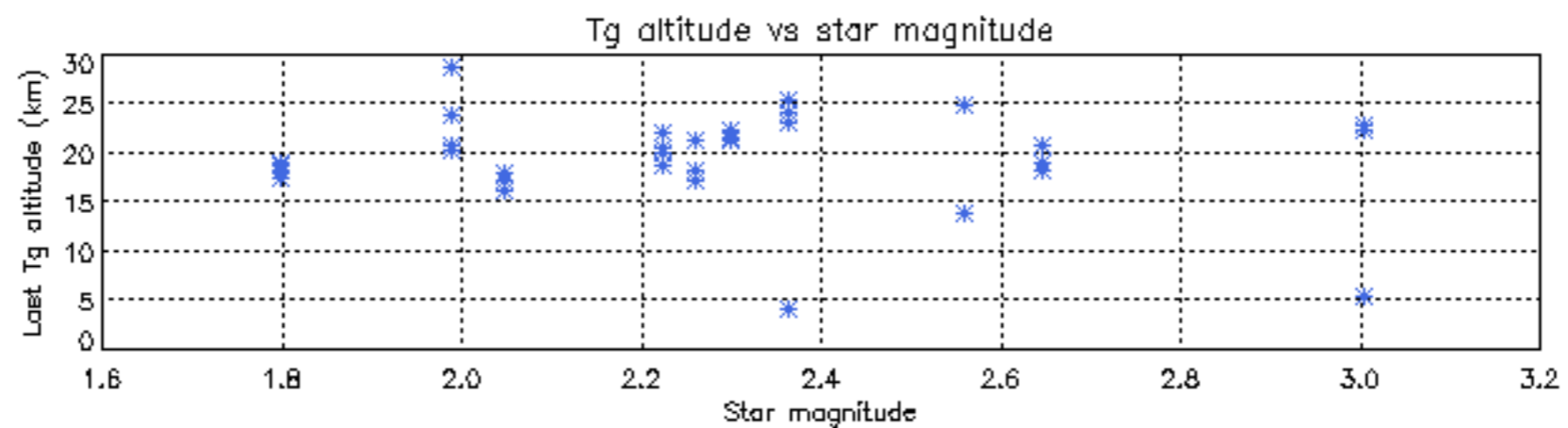
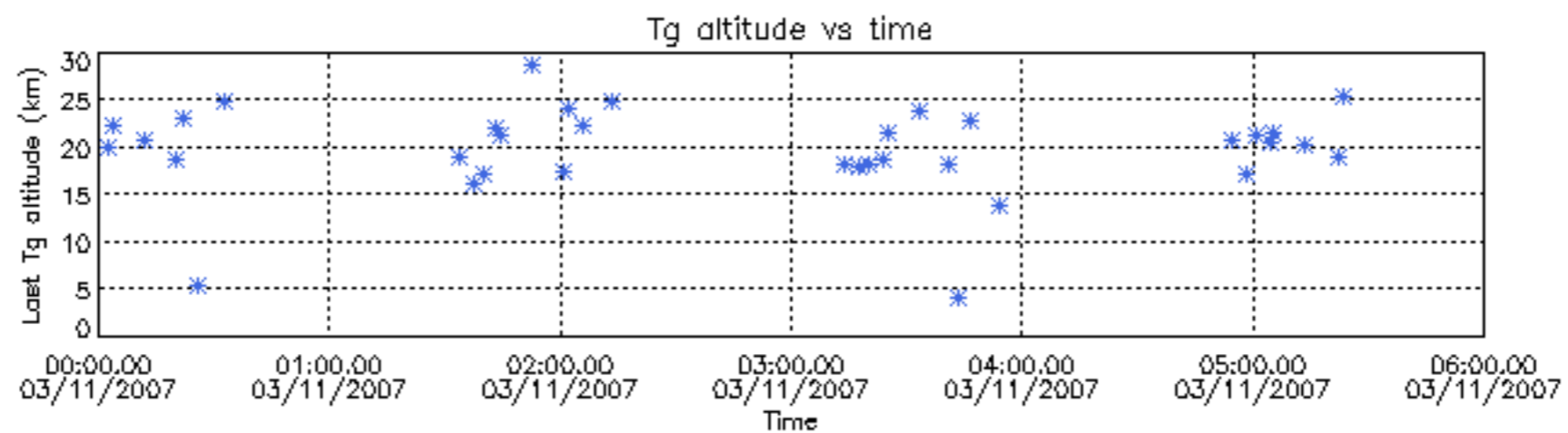


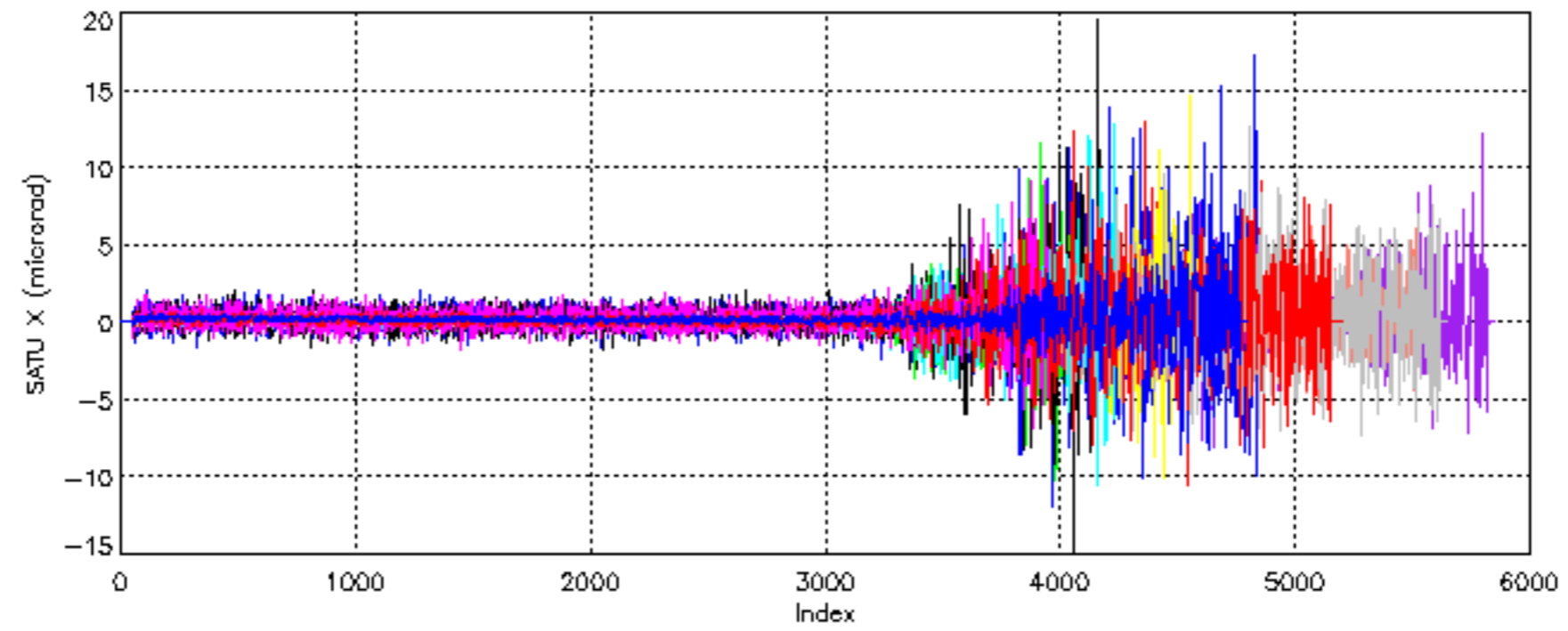
Tangent altitude at which the star is lost

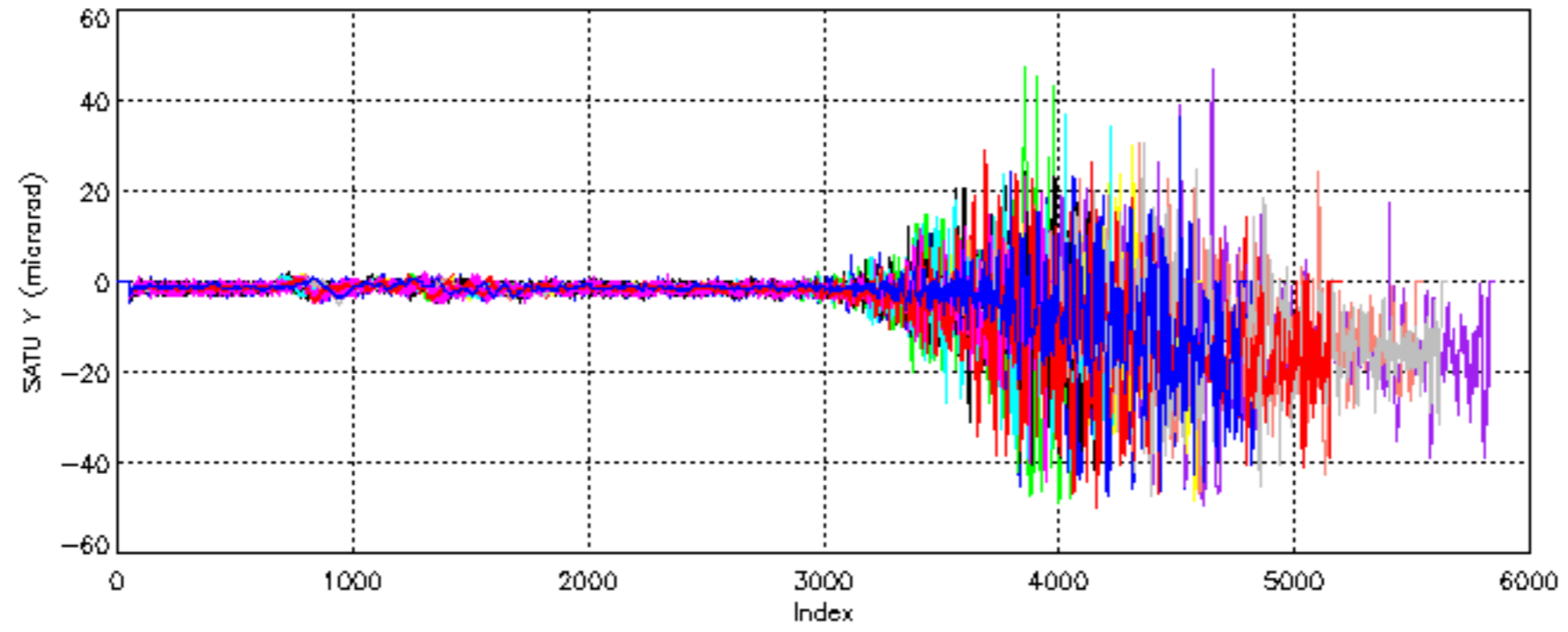


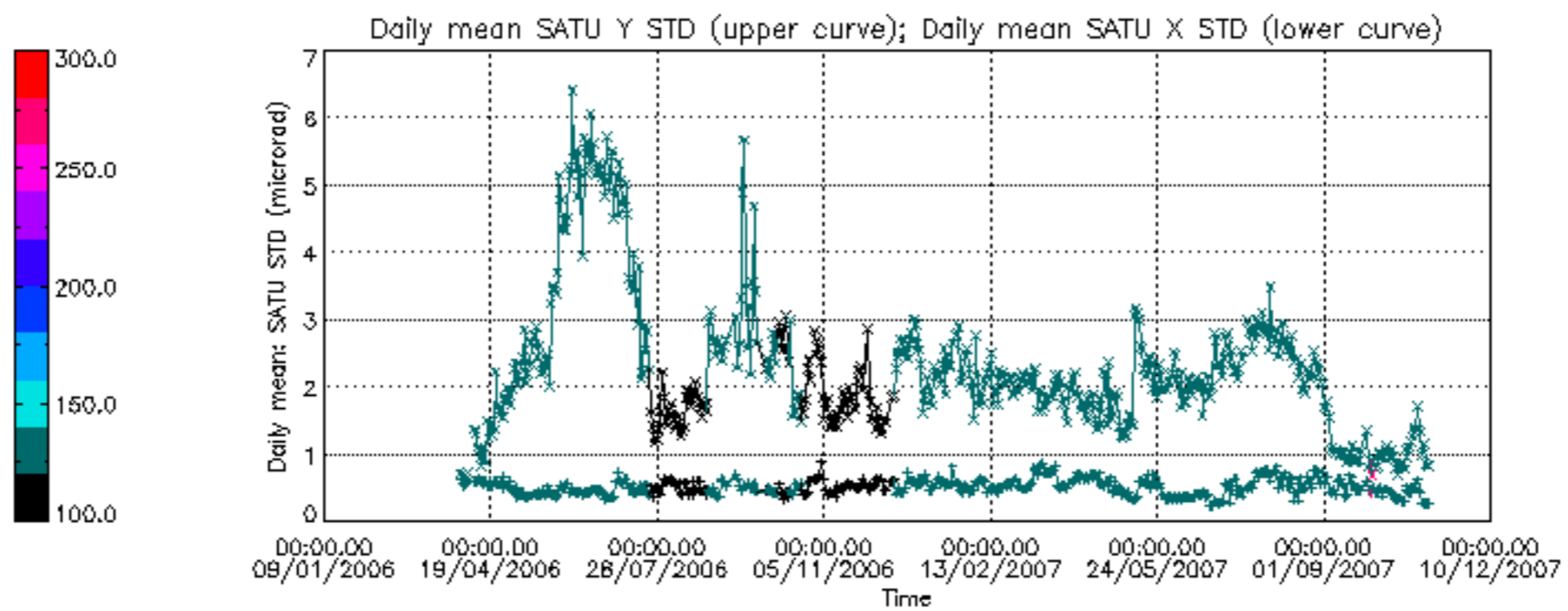


Tangent altitude at which the star is lost











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 2; 131.3; 01-NOV-2007 00:19:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29644  
 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644  
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644  
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 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644  
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656

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7; 214.8; 01-NOV-2007 07:03:28; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;29648
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4;	2659.9;	01-NOV-2007	19:28:25;	Bright;	;	39.5;	73;	57Gam1And	;	2.26;	13100;occ;	79;	0;	29655
5;	2867.7;	01-NOV-2007	19:31:53;	Bright;	;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	29655
6;	2938.8;	01-NOV-2007	19:33:04;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29655
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8;	3911.7;	01-NOV-2007	19:49:17;	Bright;	;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	29655
9;	4008.3;	01-NOV-2007	19:50:54;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	29655
10;	4229.7;	01-NOV-2007	19:54:35;	Bright;	;	56.0;	174;	52Psi UMa	;	3.00;	4400;occ;	112;	0;	29655
11;	4674.3;	01-NOV-2007	20:01:59;	Bright;	;	45.0;	96;	68Del Leo	;	2.56;	9300;occ;	90;	0;	29655
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14;	6255.5;	01-NOV-2007	20:28:21;	Dark	;	49.0;	41;	Eps Car	;	1.86;	4100;occ;	98;	0;	29655
15;	6388.5;	01-NOV-2007	20:30:34;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29655
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4;	353.5;	01-NOV-2007	22:11:10;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29657
5;	529.1;	01-NOV-2007	22:14:06;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	29657
6;	1143.4;	01-NOV-2007	22:24:20;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29657
7;	2272.5;	01-NOV-2007	22:43:10;	Bright;	;	38.0;	105;	6Bet Ari	;	2.64;	8900;occ;	76;	0;	29657
8;	2514.4;	01-NOV-2007	22:47:11;	Bright;	;	36.5;	53;	43Bet And	;	2.05;	3300;occ;	73;	0;	29657
9;	2659.3;	01-NOV-2007	22:49:36;	Bright;	;	36.5;	73;	57Gam1And	;	2.26;	13100;occ;	73;	0;	29657
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11;	2938.7;	01-NOV-2007	22:54:16;	Bright;	;	35.0;	76;	27Gam Cas	;	2.30;	30000;occ;	70;	0;	29657
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13;	3911.5;	01-NOV-2007	23:10:29;	Bright;	;	35.5;	36;	50Alp UMa	;	1.80;	6300;occ;	71;	0;	29657
14;	4008.1;	01-NOV-2007	23:12:05;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	29657
15;	4229.8;	01-NOV-2007	23:15:47;	Bright;	;	57.0;	174;	52Psi UMa	;	3.00;	4400;occ;	114;	0;	29657
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2;	140.6;	01-NOV-2007	23:48:13;	Dark	;	41.5;	46;	Del Vel	;	1.95;	10600;occ;	83;	0;	29658
3;	220.7;	01-NOV-2007	23:49:34;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	29658
4;	354.4;	01-NOV-2007	23:51:47;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29658
5;	529.9;	01-NOV-2007	23:54:43;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	29658
6;	1143.6;	02-NOV-2007	00:04:56;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29658
7;	2272.3;	02-NOV-2007	00:23:45;	Bright;	;	38.0;	105;	6Bet Ari	;	2.64;	8900;occ;	76;	0;	29658
8;	2514.3;	02-NOV-2007	00:27:47;	Bright;	;	38.5;	53;	43Bet And	;	2.05;	3300;occ;	77;	0;	29658
9;	2658.9;	02-NOV-2007	00:30:12;	Bright;	;	39.5;	73;	57Gam1And	;	2.26;	13100;occ;	79;	0;	29658
10;	2867.8;	02-NOV-2007	00:33:41;	Bright;	;	33.5;	68;	18Alp Cas	;	2.22;	4500;occ;	67;	0;	29658
11;	2938.5;	02-NOV-2007	00:34:51;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29658
12;	3423.5;	02-NOV-2007	00:42:56;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	29658
13;	3911.3;	02-NOV-2007	00:51:04;	Bright;	;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	29658
14;	4008.0;	02-NOV-2007	00:52:41;	Bright;	;	37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	29658
15;	4229.8;	02-NOV-2007	00:56:23;	Bright;	;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;	29658
16;	4675.0;	02-NOV-2007	01:03:48;	Bright;	;	38.0;	96;	68Del Leo	;	2.56;	9300;occ;	76;	0;	29658

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2;	141.3;	02-NOV-2007	01:28:50;	Dark	;	40.0;	46;	Del Vel	;	1.95;	10600;occ;	80;	0;	29659
3;	221.3;	02-NOV-2007	01:30:10;	Dark	;	41.5;	41;	Eps Car	;	1.86;	4100;occ;	83;	0;	29659
4;	355.4;	02-NOV-2007	01:32:24;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29659
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6;	1143.9;	02-NOV-2007	01:45:33;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29659
7;	2272.2;	02-NOV-2007	02:04:21;	Bright;	;	39.0;	105;	6Bet Ari	;	2.64;	8900;occ;	78;	0;	29659
8;	2514.3;	02-NOV-2007	02:08:23;	Bright;	;	37.0;	53;	43Bet And	;	2.05;	3300;occ;	74;	0;	29659
9;	2658.7;	02-NOV-2007	02:10:47;	Bright;	;	40.0;	73;	57Gam1And	;	2.26;	13100;occ;	80;	0;	29659
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 23; 6819.9; 28-NOV-2007 11:25:50; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;30036

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22; 6391.4; 28-NOV-2007 14:39:53; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30038  
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22; 6111.2; 30-NOV-2007 08:30:11; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;30063
23; 6233.8; 30-NOV-2007 08:32:14; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30063
24; 6401.6; 30-NOV-2007 08:35:02; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30063
25; 6511.4; 30-NOV-2007 08:36:52; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;30063
26; 6834.6; 30-NOV-2007 08:42:15; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;30063
27; 7693.6; 30-NOV-2007 08:56:34; Dark ; 39.5; 165; 34Gam Eri ; 2.95; 3200;occ; 79; 0;30063
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 11; 4311.1; 30-NOV-2007 11:21:23; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;30065  
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 18; 5616.9; 30-NOV-2007 11:43:09; Dark ; 39.0; 123; Iot Cen ; 2.75; 10200;occ; 78; 0;30065  
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 23; 6402.3; 30-NOV-2007 11:56:14; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30065  
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 6; 2741.3; 30-NOV-2007 12:35:49; Bright; 34.5; 175; 39Del Per ; 3.01; 19400;occ; 69; 0;30066  
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 10; 4016.0; 30-NOV-2007 12:57:04; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;30066  
 11; 4138.4; 30-NOV-2007 12:59:06; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30066  
 12; 4311.3; 30-NOV-2007 13:01:59; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;30066  
 13; 4642.8; 30-NOV-2007 13:07:31; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30066  
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 16; 5201.8; 30-NOV-2007 13:16:50; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;30066  
 17; 5395.9; 30-NOV-2007 13:20:04; Dark ; 42.0; 163; 7Del Crv ; 2.94; 11000;occ; 84; 0;30066  
 18; 5493.9; 30-NOV-2007 13:21:42; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;30066  
 19; 5617.4; 30-NOV-2007 13:23:45; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;30066  
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 21; 5986.7; 30-NOV-2007 13:29:55; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;30066  
 22; 6113.6; 30-NOV-2007 13:32:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;30066  
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 25; 6513.2; 30-NOV-2007 13:38:41; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30066  
 26; 6836.1; 30-NOV-2007 13:44:04; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;30066

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 5; 2606.2; 30-NOV-2007 15:54:46; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30068  
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 9; 3701.4; 30-NOV-2007 16:13:01; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30068  
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 11; 4138.6; 30-NOV-2007 16:20:18; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30068  
 12; 4311.9; 30-NOV-2007 16:23:11; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30068  
 13; 4643.3; 30-NOV-2007 16:28:43; Bright; 34.0; 3; 16Alp Boo ;-0.05; 4250;occ; 68; 0;30068  
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 23; 6236.2; 30-NOV-2007 16:55:16; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30068  
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 25; 6514.6; 30-NOV-2007 16:59:54; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;30068  
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