

# GOMOS Daily Report 04-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 05:53:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (04NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (05NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	29
Nb of prods with errors	0

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

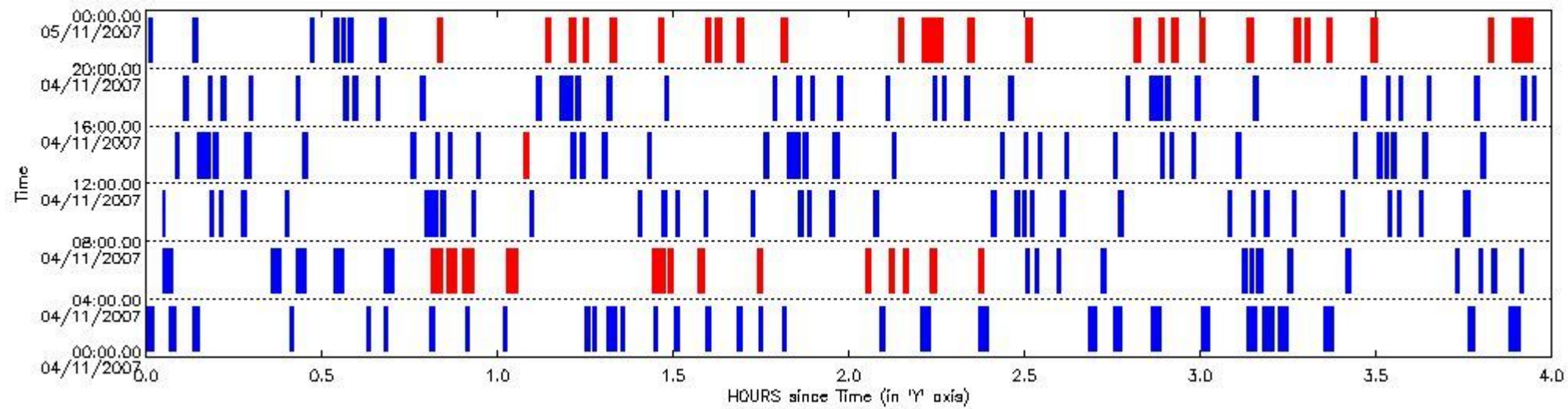
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
04-NOV-2007 04:48:37	50AlpUMa	36	29689
04-NOV-2007 04:51:13	64GamUMa	87	29689
04-NOV-2007 04:53:57	52PsiUMa	174	29689
04-NOV-2007 05:01:31	68DelLeo	96	29689
04-NOV-2007 05:26:22	DSA1030	0	29690
04-NOV-2007 05:27:42	DelVel	46	29690
04-NOV-2007 05:29:00	EpsCar	41	29690
04-NOV-2007 05:34:14	AlpCar	2	29690
04-NOV-2007 05:44:14	The1Eri	157	29690
04-NOV-2007 06:02:48	6BetAri	105	29690
04-NOV-2007 06:06:54	43BetAnd	53	29690
04-NOV-2007 06:09:11	57Gam1And	73	29690
04-NOV-2007 06:13:54	37DelCas	110	29690
04-NOV-2007 06:22:03	1AlpUMi	49	29690
04-NOV-2007 13:04:27	1AlpUMi	49	29694

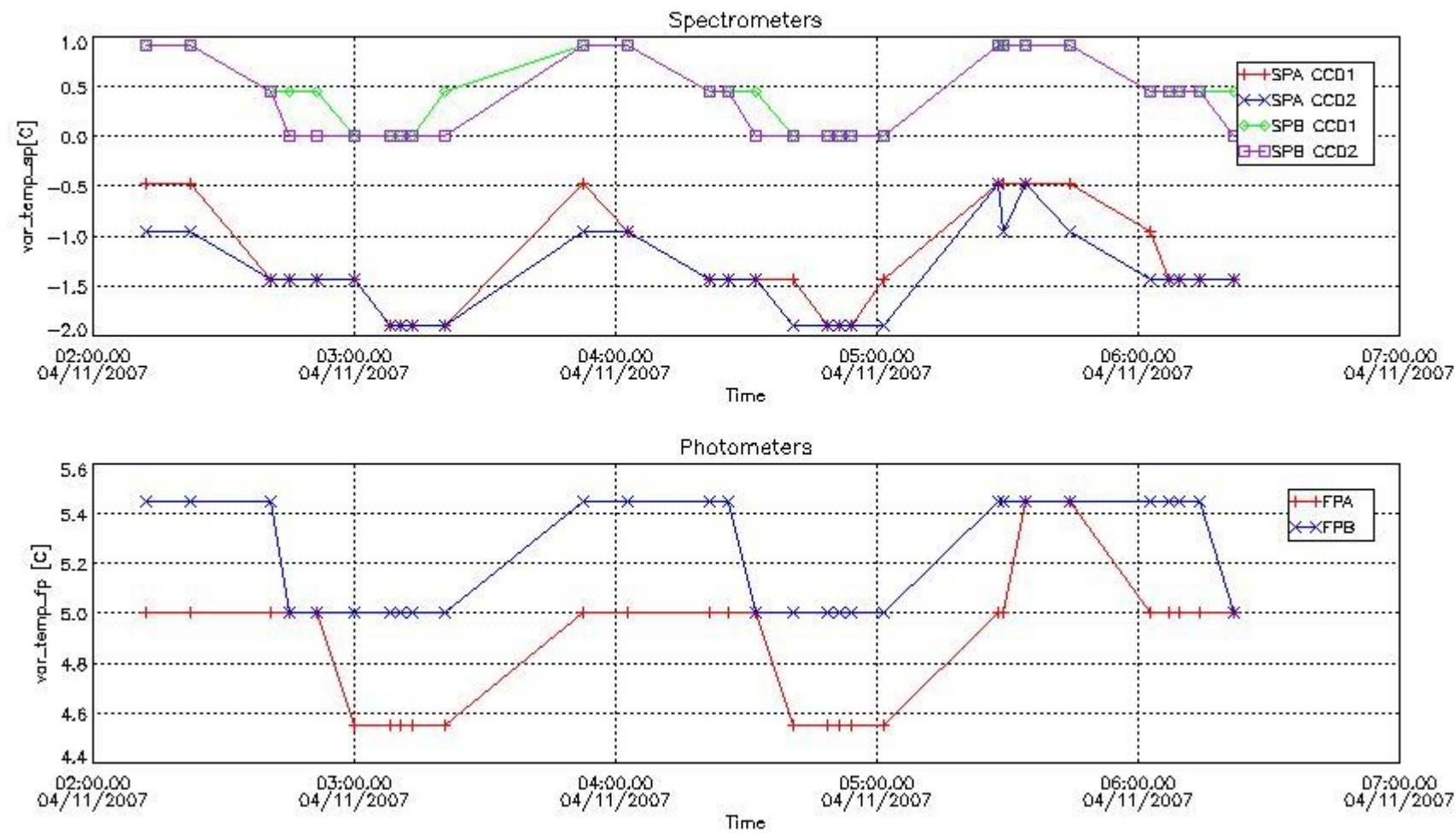
04-NOV-2007 20:49:40	The1Eri	157	29699
04-NOV-2007 21:08:10	6BetAri	105	29699
04-NOV-2007 21:12:17	43BetAnd	53	29699
04-NOV-2007 21:14:32	57Gam1And	73	29699
04-NOV-2007 21:19:17	37DelCas	110	29699
04-NOV-2007 21:27:27	1AlpUMi	49	29699
04-NOV-2007 21:35:30	50AlpUMa	36	29699
04-NOV-2007 21:37:08	48BetUMa	82	29699
04-NOV-2007 21:40:53	52PsiUMa	174	29699
04-NOV-2007 21:48:29	68DelLeo	96	29699
04-NOV-2007 22:08:29	MuVel	113	29699
04-NOV-2007 22:12:29	DSA1030	0	29700
04-NOV-2007 22:13:48	DelVel	46	29700
04-NOV-2007 22:15:05	EpsCar	41	29700
04-NOV-2007 22:20:21	AlpCar	2	29700
04-NOV-2007 22:30:16	The1Eri	157	29700
04-NOV-2007 22:48:46	6BetAri	105	29700
04-NOV-2007 22:52:53	43BetAnd	53	29700
04-NOV-2007 22:55:08	57Gam1And	73	29700
04-NOV-2007 22:59:53	37DelCas	110	29700
04-NOV-2007 23:08:02	1AlpUMi	49	29700
04-NOV-2007 23:16:06	50AlpUMa	36	29700
04-NOV-2007 23:17:43	48BetUMa	82	29700
04-NOV-2007 23:21:29	52PsiUMa	174	29700
04-NOV-2007 23:29:06	68DelLeo	96	29700
04-NOV-2007 23:49:05	MuVel	113	29700
04-NOV-2007 23:53:06	DSA1030	0	29701
04-NOV-2007 23:54:25	DelVel	46	29701
04-NOV-2007 23:55:42	EpsCar	41	29701

#### 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_1PNPDE20071104_021205_000001102063_00075_29688_3366.N1	04-NOV-2007 02:12:05	Dark	110.00	2	Alp Car	-0.73600	7000.0	220	29688	No
2	GOM_TRA_1PNPDE20071104_022210_000000932063_00075_29688_3367.N1	04-NOV-2007 02:22:10	Straylight	92.500	157	The1Eri	2.9060	9300.0	185	29688	No
3	GOM_TRA_1PNPDE20071104_024046_000000912063_00075_29688_3368.N1	04-NOV-2007 02:40:46	Bright	90.500	105	6Bet Ari	2.6450	8900.0	181	29688	No
4	GOM_TRA_1PNPDE20071104_024506_000000912063_00075_29688_3369.N1	04-NOV-2007 02:45:06	Bright	91.000	173	4Bet Tri	3.0040	8900.0	182	29688	No
5	GOM_TRA_1PNPDE20071104_025131_000000962063_00075_29688_3370.N1	04-NOV-2007 02:51:31	Bright	96.000	160	23Gam Per	2.9300	4700.0	192	29688	No
6	GOM_TRA_1PNPDE20071104_030002_000000852063_00075_29688_3371.N1	04-NOV-2007 03:00:02	Bright	84.500	49	1Alp UMi	1.9900	6300.0	169	29688	No
7	GOM_TRA_1PNPDE20071104_030804_000000952063_00075_29688_3557.N1	04-NOV-2007 03:08:04	Bright	94.500	36	50Alp UMa	1.8000	6300.0	189	29688	No
8	GOM_TRA_1PNPDE20071104_031040_000001072063_00075_29688_3558.N1	04-NOV-2007 03:10:40	Bright	107.00	87	64Gam UMa	2.4330	11000.	214	29688	No
9	GOM_TRA_1PNPDE20071104_031324_000000942063_00075_29688_3559.N1	04-NOV-2007 03:13:24	Bright	93.500	174	52Psi UMa	3.0040	4400.0	187	29688	No
10	GOM_TRA_1PNPDE20071104_032057_000000982063_00075_29688_3560.N1	04-NOV-2007 03:20:57	Bright	97.500	96	68Del Leo	2.5600	9300.0	195	29688	No
11	GOM_TRA_1PNPDE20071104_035242_000001072063_00076_29689_3561.N1	04-NOV-2007 03:52:42	Dark	106.50	2	Alp Car	-0.73600	7000.0	213	29689	No
12	GOM_TRA_1PNPDE20071104_040246_000000932063_00076_29689_3562.N1	04-NOV-2007 04:02:46	Straylight	93.000	157	The1Eri	2.9060	9300.0	186	29689	No
13	GOM_TRA_1PNPDE20071104_042122_000000922063_00076_29689_3563.N1	04-NOV-2007 04:21:22	Bright	91.500	105	6Bet Ari	2.6450	8900.0	183	29689	No
14	GOM_TRA_1PNPDE20071104_042542_000000922063_00076_29689_3564.N1	04-NOV-2007 04:25:42	Bright	92.000	173	4Bet Tri	3.0040	8900.0	184	29689	No
15	GOM_TRA_1PNPDE20071104_043207_000000972063_00076_29689_3565.N1	04-NOV-2007 04:32:07	Bright	97.000	160	23Gam Per	2.9300	4700.0	194	29689	No
16	GOM_TRA_1PNPDE20071104_044038_000000882063_00076_29689_3566.N1	04-NOV-2007 04:40:38	Bright	88.000	49	1Alp UMi	1.9900	6300.0	176	29689	No
17	GOM_TRA_1PNPDE20071104_044840_000000952063_00076_29689_3739.N1	04-NOV-2007 04:48:40	Bright	94.500	36	50Alp UMa	1.8000	6300.0	189	29689	No
18	GOM_TRA_1PNPDE20071104_045116_000000882063_00076_29689_3740.N1	04-NOV-2007 04:51:16	Bright	88.000	87	64Gam UMa	2.4330	11000.	176	29689	No
19	GOM_TRA_1PNPDE20071104_045400_000001142063_00076_29689_3741.N1	04-NOV-2007 04:54:00	Bright	114.00	174	52Psi UMa	3.0040	4400.0	228	29689	No
20	GOM_TRA_1PNPDE20071104_050133_000000952063_00076_29689_3742.N1	04-NOV-2007 05:01:33	Bright	95.000	96	68Del Leo	2.5600	9300.0	190	29689	No
21	GOM_TRA_1PNPDE20071104_052745_000000412063_00077_29690_3743.N1	04-NOV-2007 05:27:45	Dark	41.000	46	Del Vel	1.9540	10600.	82	29690	No
22	GOM_TRA_1PNPDE20071104_052902_000000412063_00077_29690_3744.N1	04-NOV-2007 05:29:02	Dark	41.000	41	Eps Car	1.8600	4100.0	82	29690	No
23	GOM_TRA_1PNPDE20071104_053417_000000602063_00077_29690_3745.N1	04-NOV-2007 05:34:17	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	29690	No
24	GOM_TRA_1PNPDE20071104_054417_000000392063_00077_29690_3746.N1	04-NOV-2007 05:44:17	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29690	No
25	GOM_TRA_1PNPDE20071104_060251_000000372063_00077_29690_3747.N1	04-NOV-2007 06:02:51	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29690	No

26	GOM_TRA_1PNPDE20071104_060656_000000362063_00077_29690_3748.N1	04-NOV-2007 06:06:56	Bright	35.500	53	43Bet And	2.0480	3300.0	71	29690	No
27	GOM_TRA_1PNPDE20071104_060913_000000392063_00077_29690_3749.N1	04-NOV-2007 06:09:13	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29690	No
28	GOM_TRA_1PNPDE20071104_061357_000000362063_00077_29690_3750.N1	04-NOV-2007 06:13:57	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	29690	No
29	GOM_TRA_1PNPDE20071104_062206_000000362063_00077_29690_3751.N1	04-NOV-2007 06:22:06	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29690	No

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



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

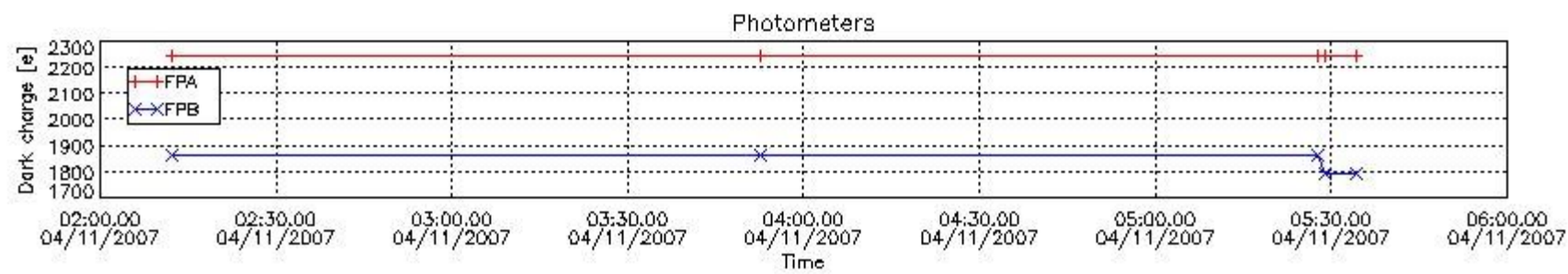
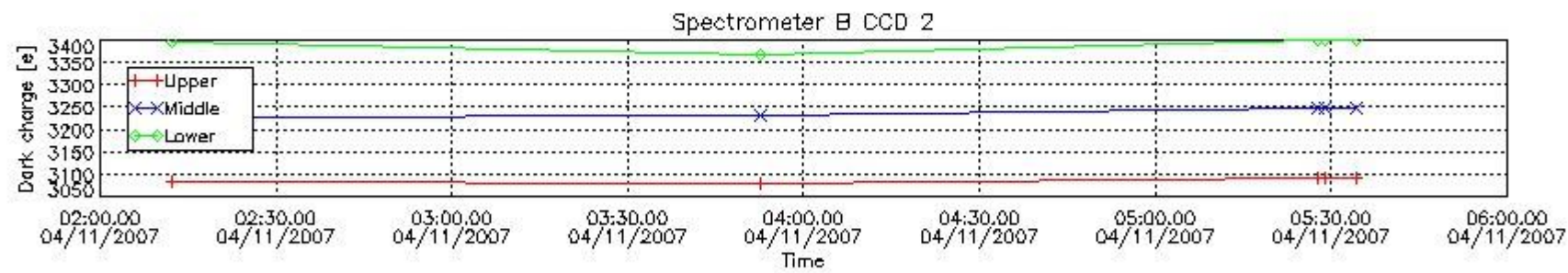
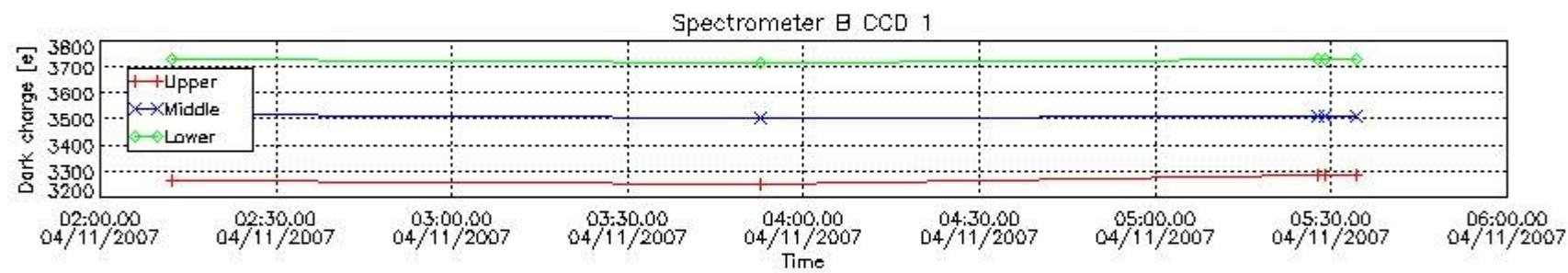
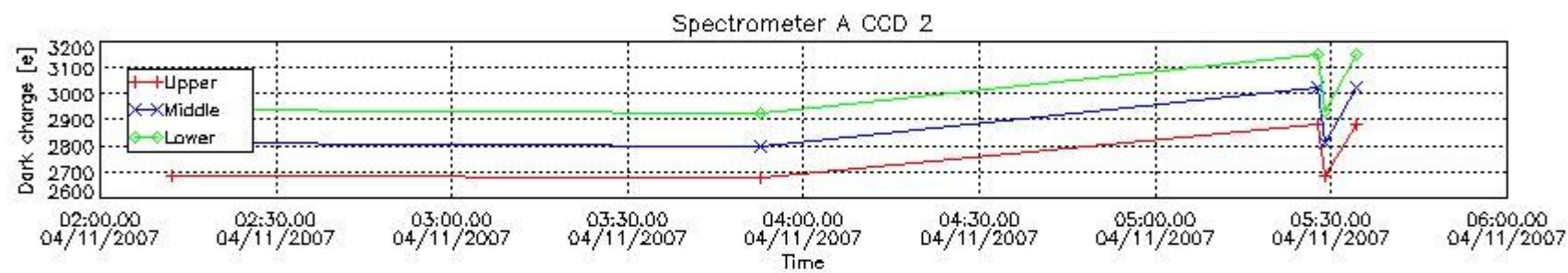
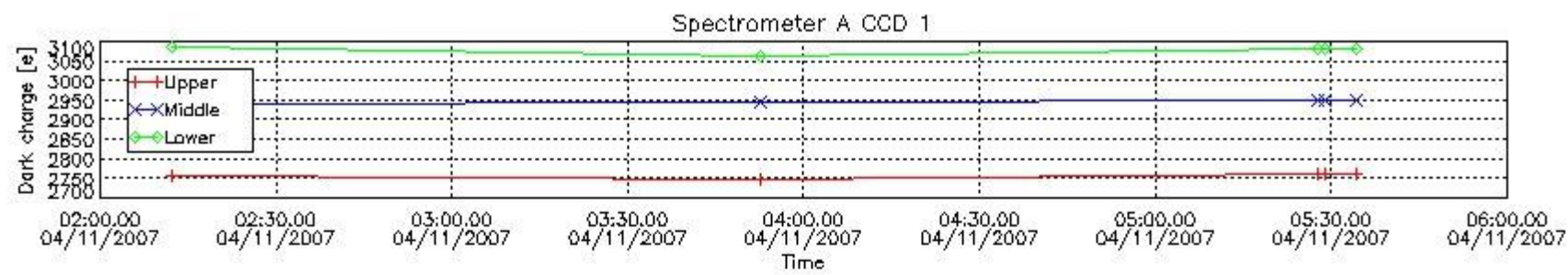
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





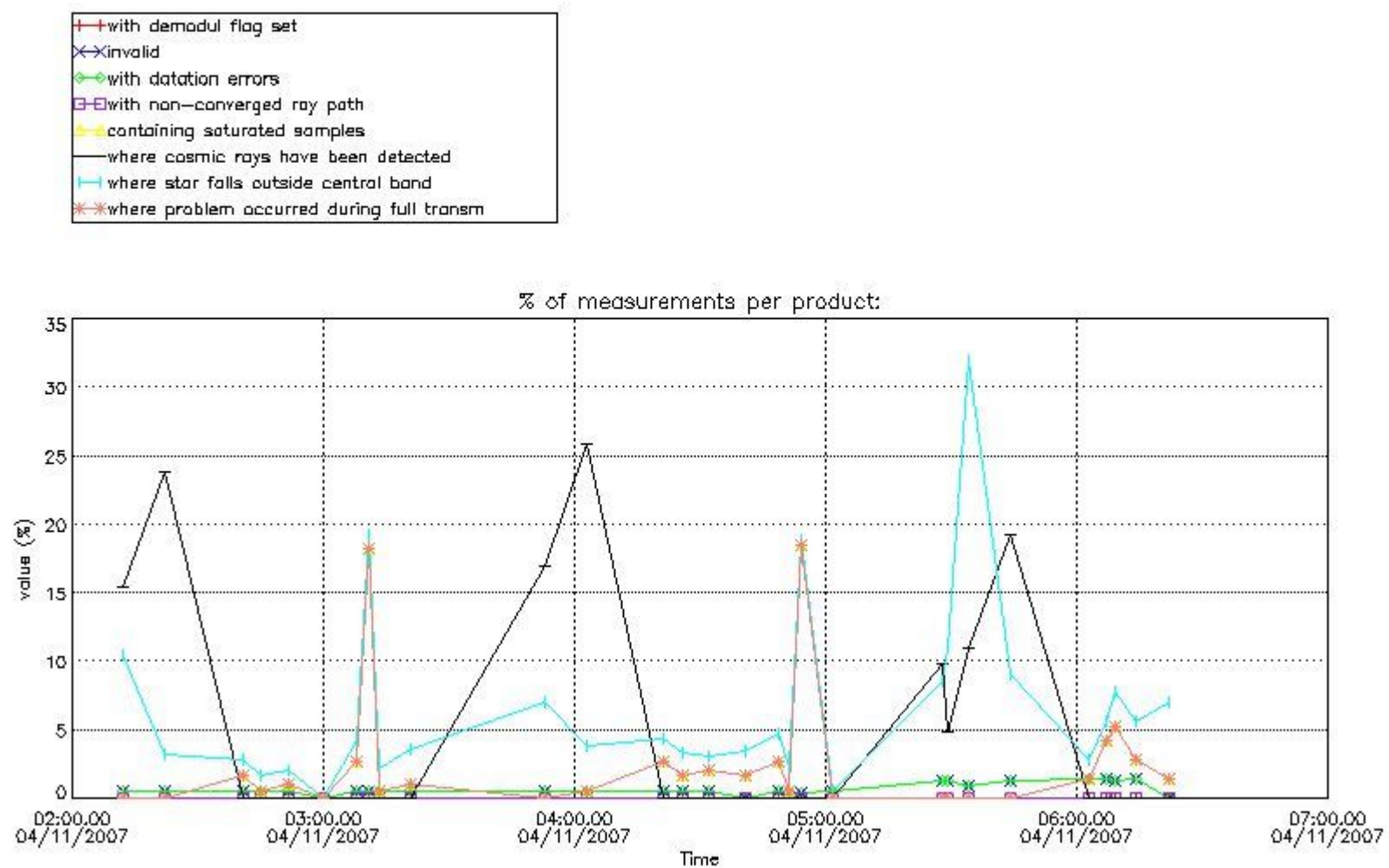
## 5. Demodulation flag and quality information monitoring

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.

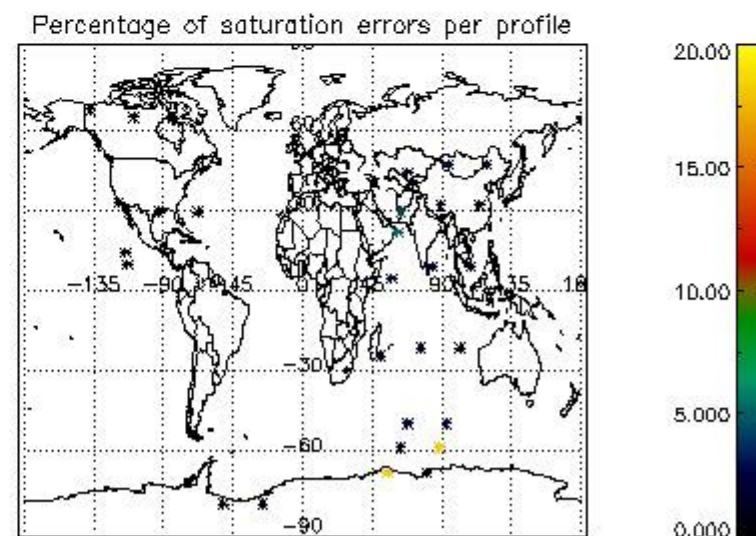
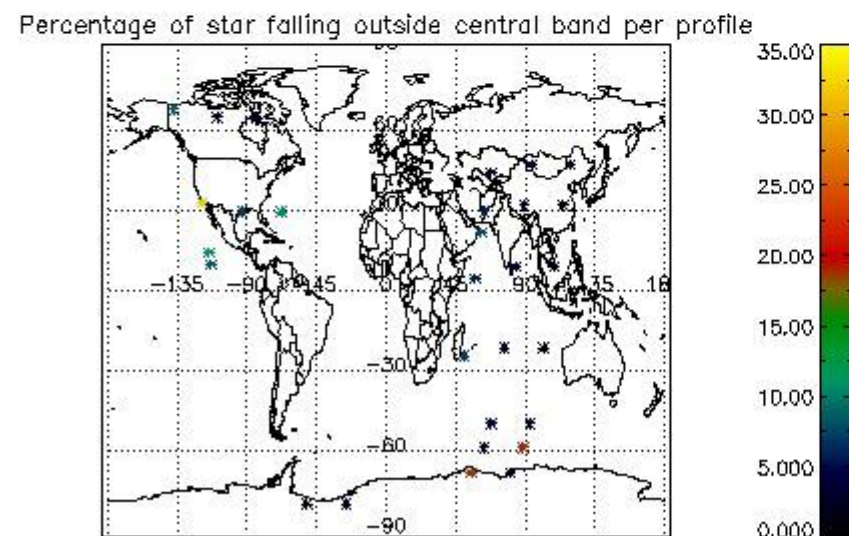
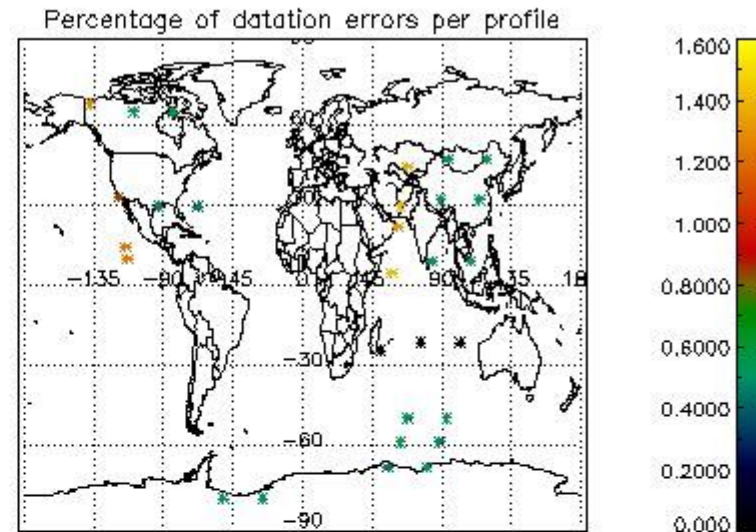
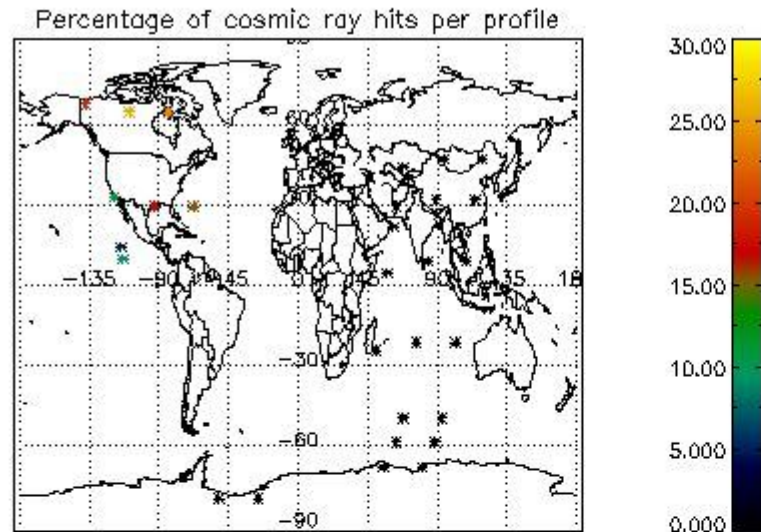
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.89655 %
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)

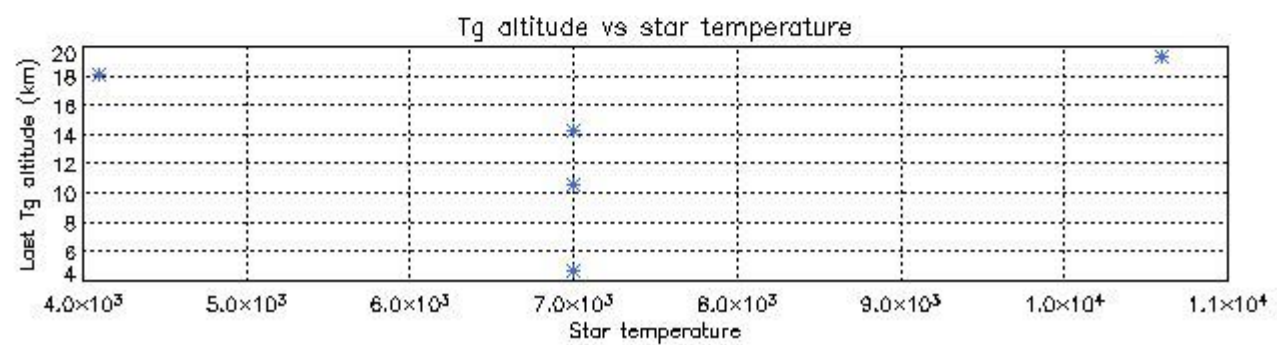
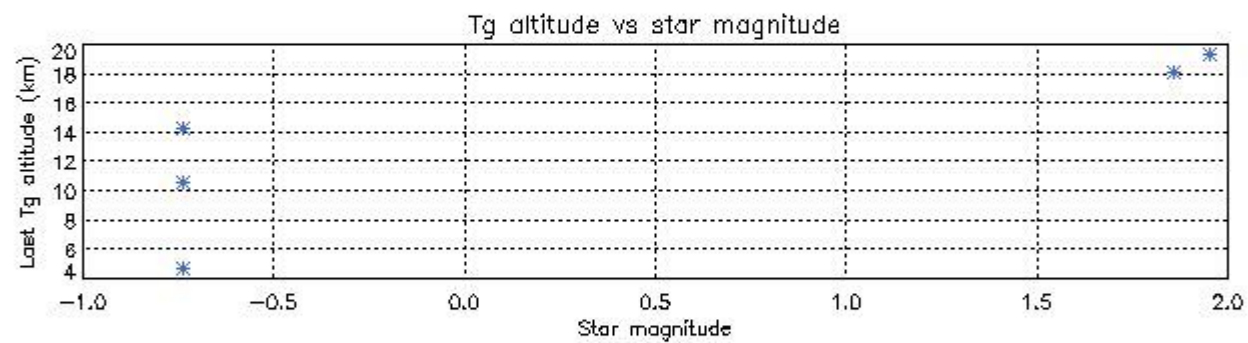
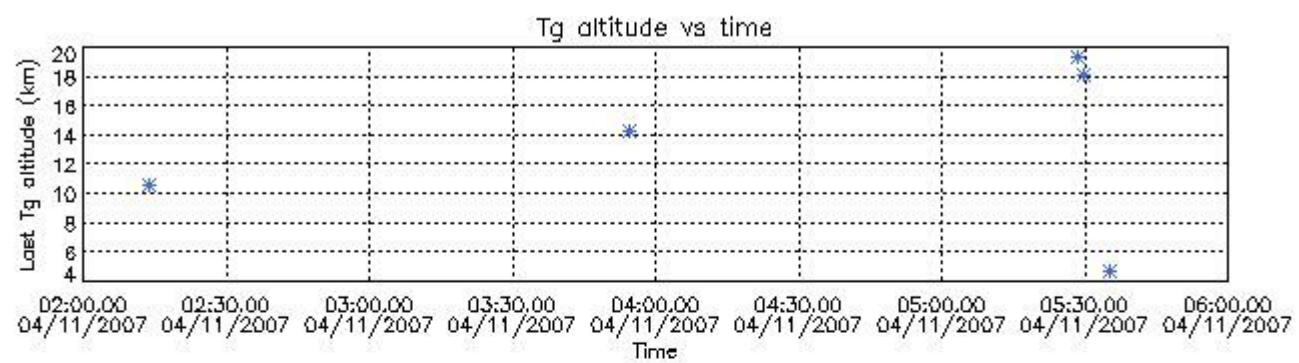
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.378	19.934	NaN
St. deviation:	5.9288	5.8611	NaN
Maximum:	19.313	27.560	NaN
Minimum:	4.7425	3.5235	NaN
Number of data:	5.0000	21.000	NaN

### 6.2 Plot for DARK limb products



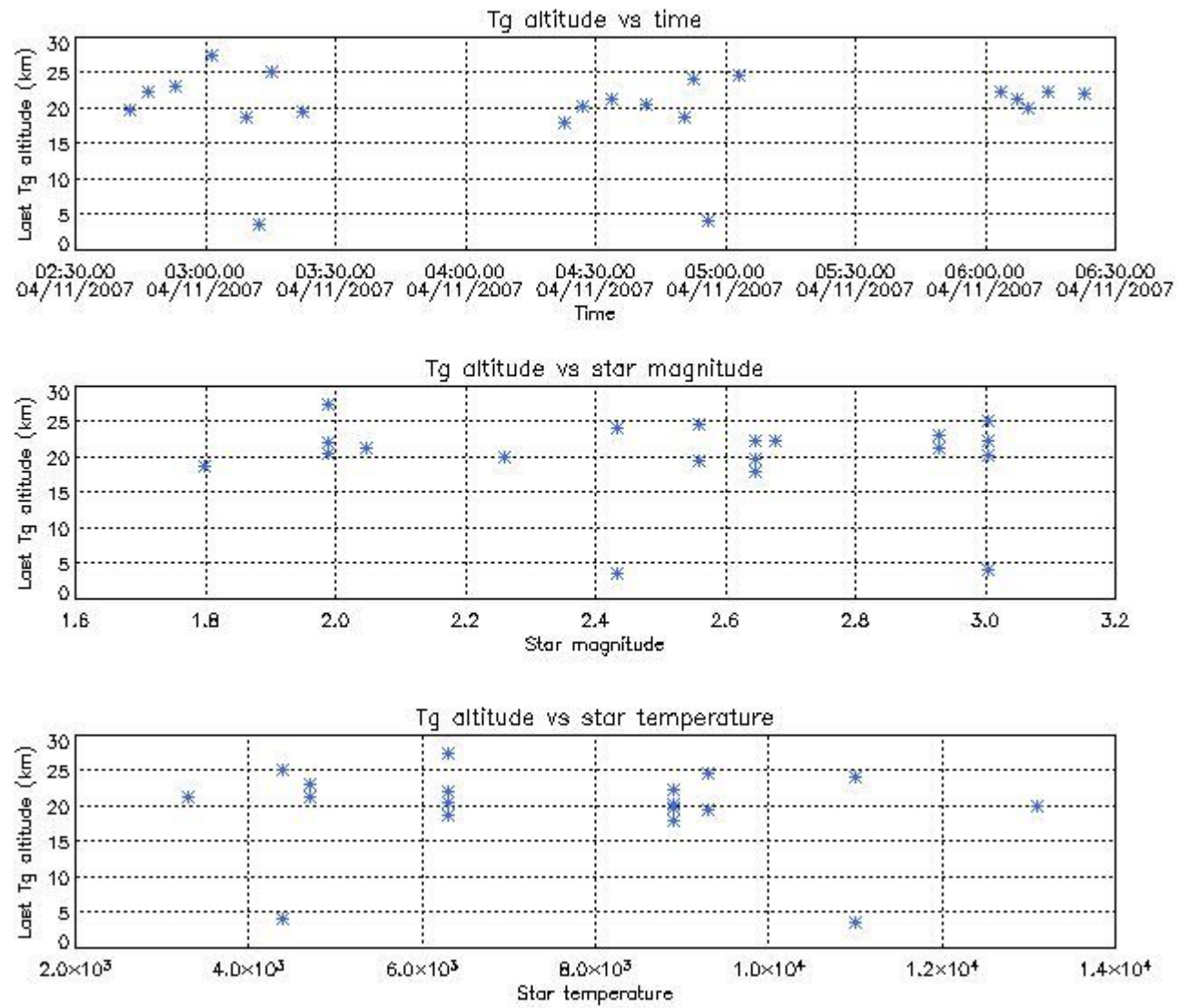
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

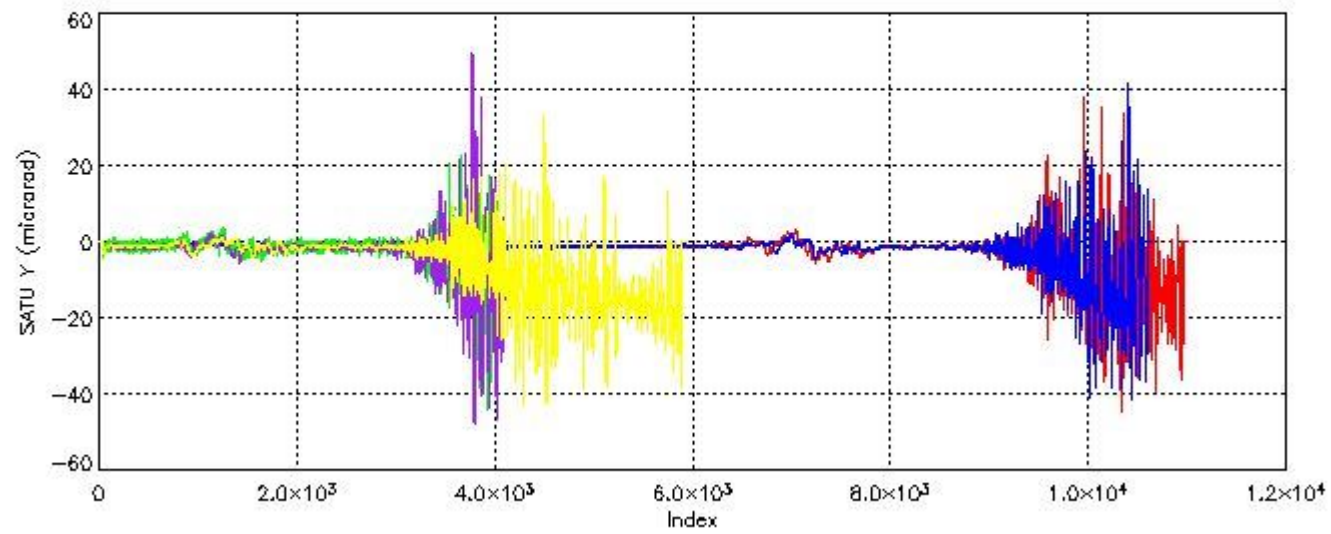
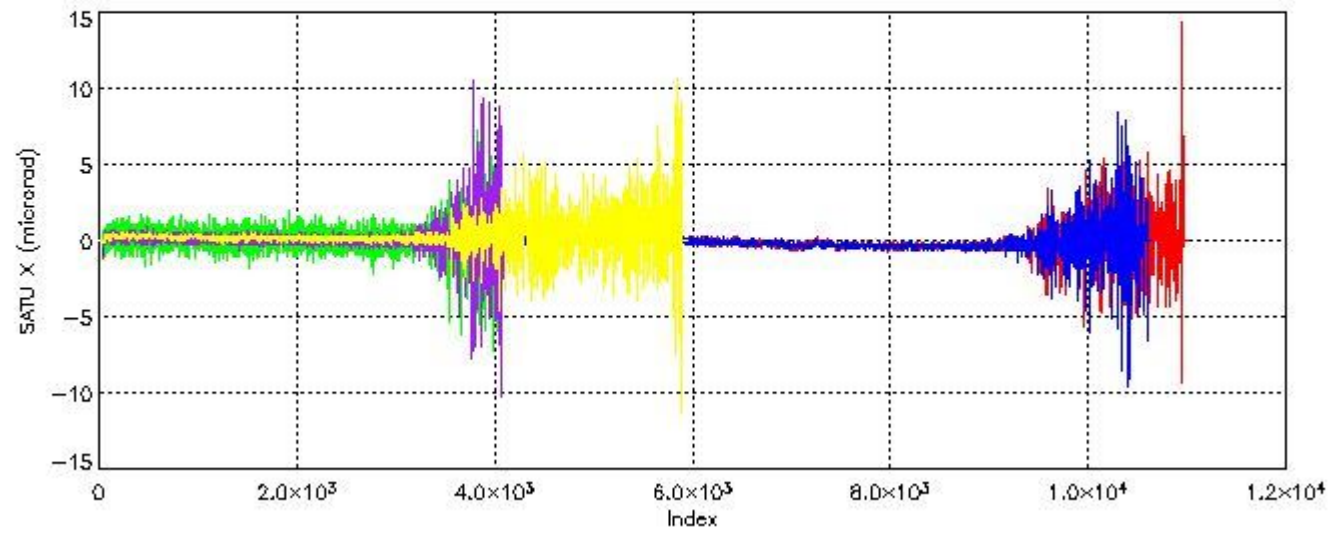


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.12890	-1.1680	0.087157	-1.2899
St. deviation:	0.23096	0.62007	0.84728	1.2777
Maximum:	1.7000	2.4000	5.6000	6.1000
Minimum:	-1.7000	-4.3000	-6.0000	-7.8000

Number of data:	16650.	16650.	1.0490E+05	1.0490E+05
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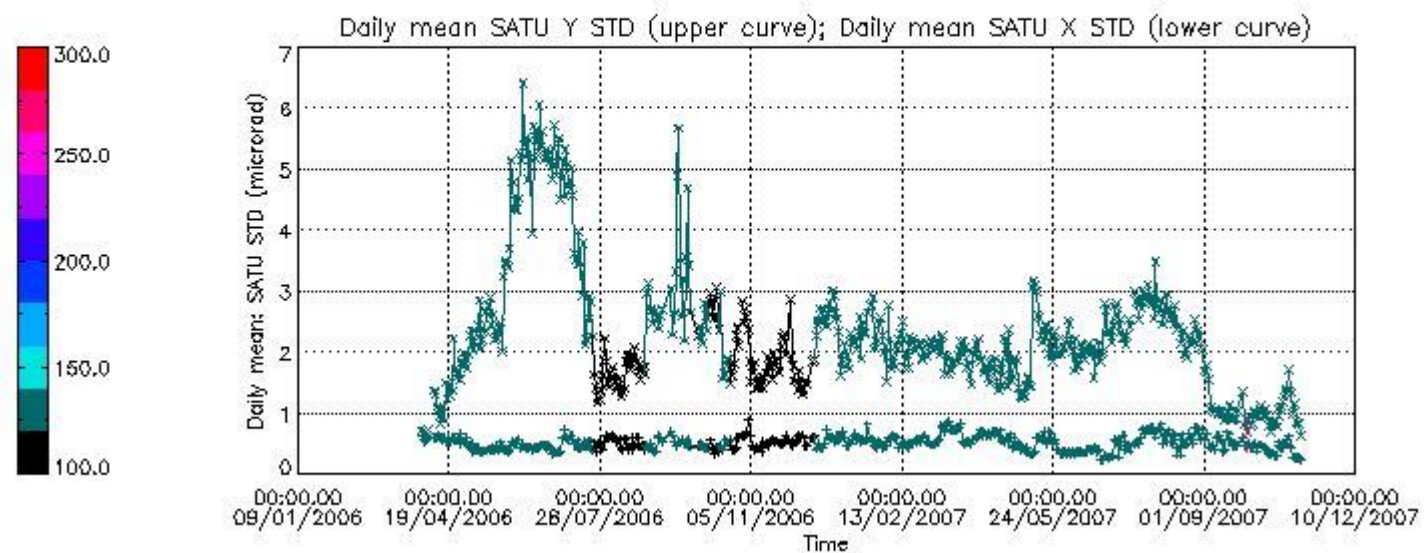
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

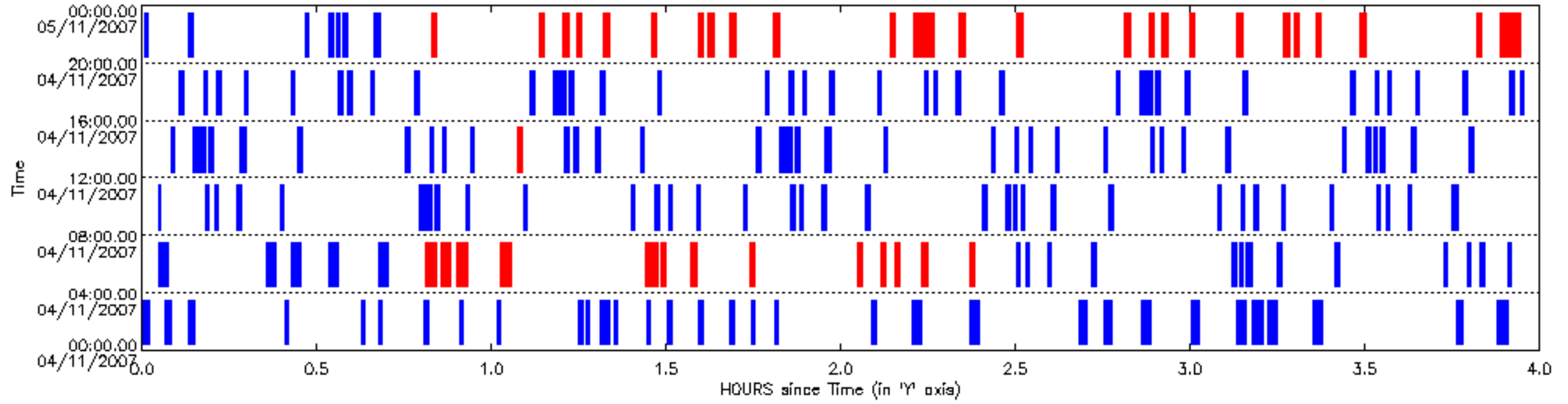
Lower curve: STD of SATU X axis



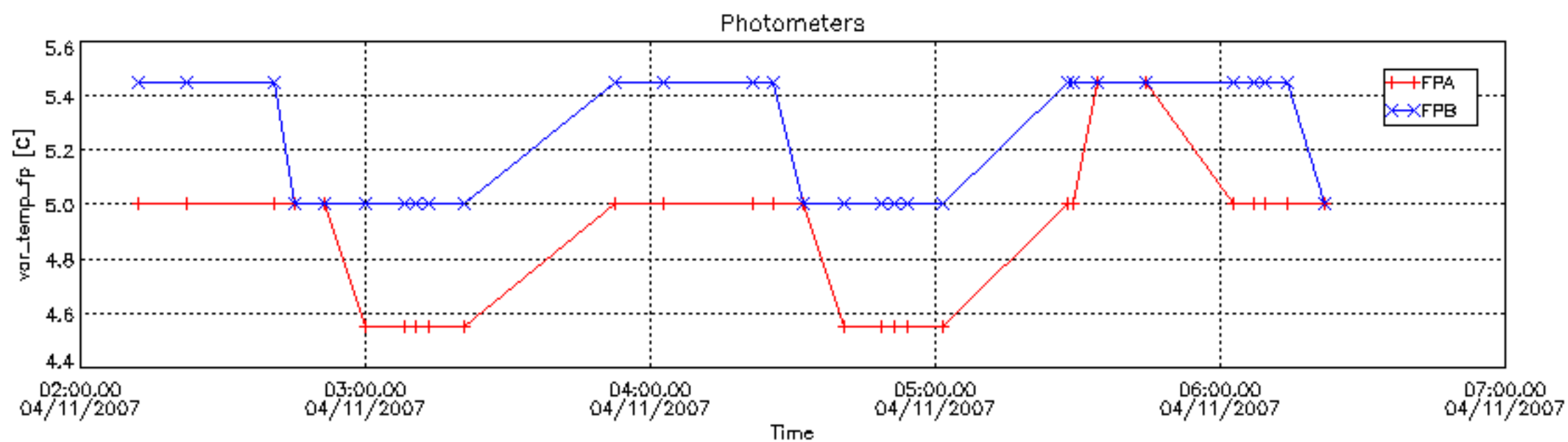
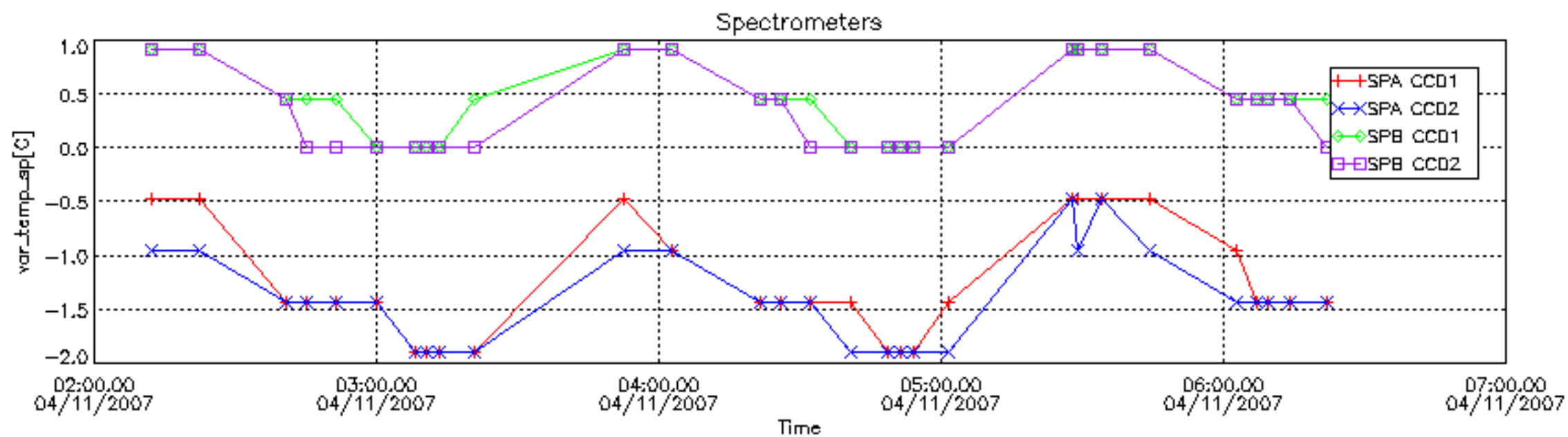
### 8. Auxiliary Data Files used for the production reported in section 2.4

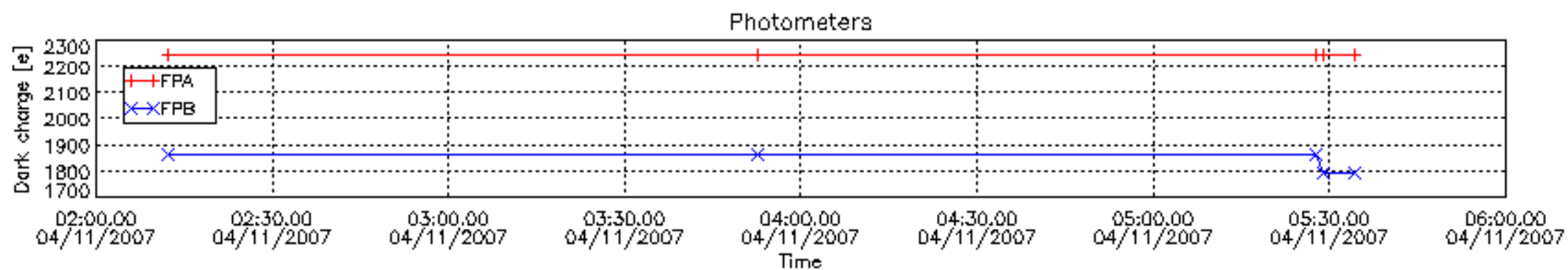
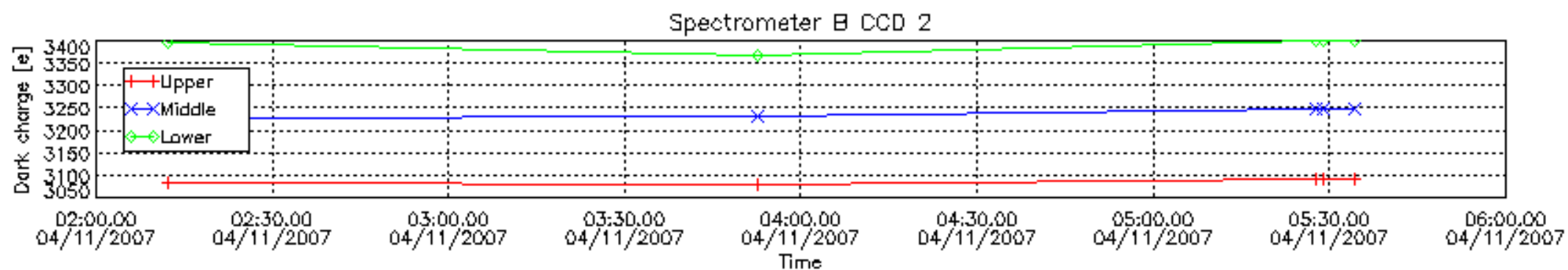
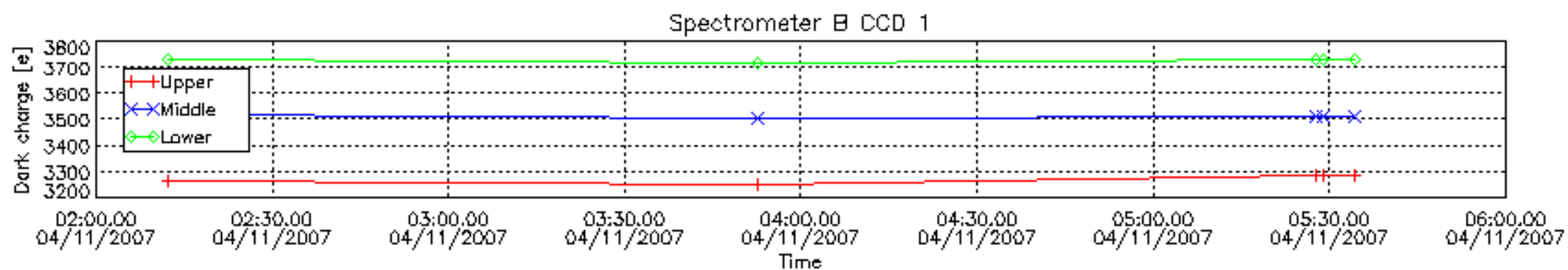
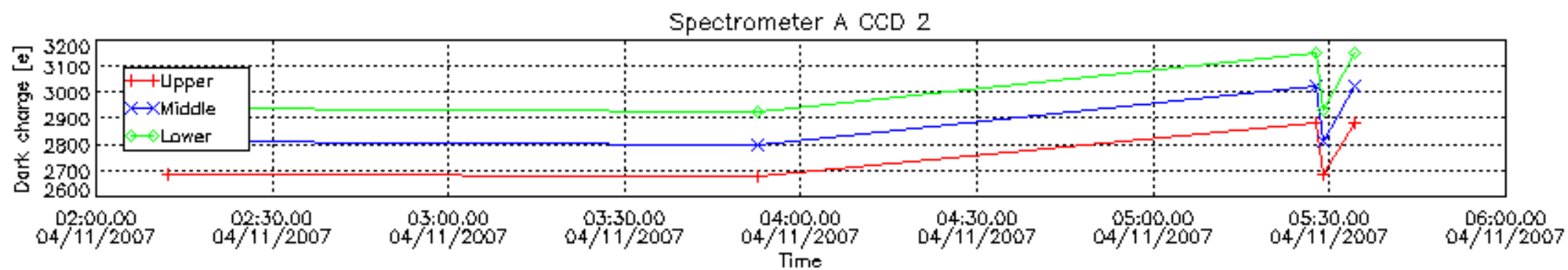
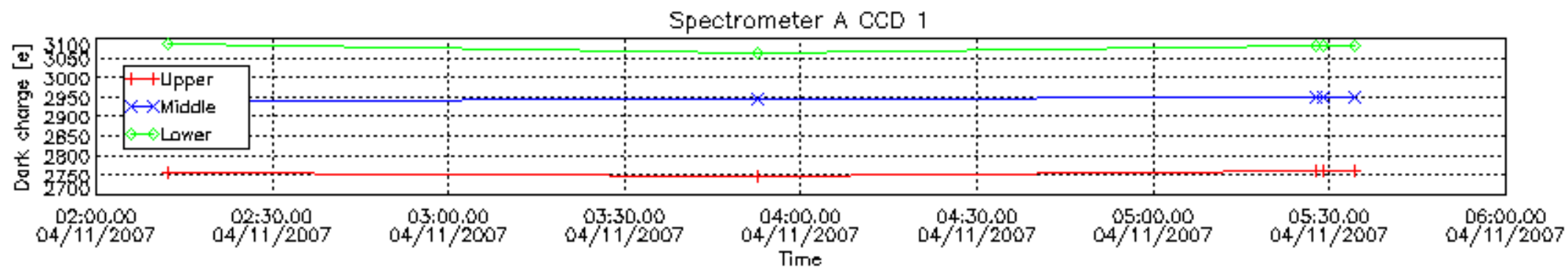
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-NOV-2007 02:12:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	04-NOV-2007 02:12:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-NOV-2007 02:12:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-NOV-2007 02:12:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-NOV-2007 02:12:05
ECMWF_FILE	AUX_ECF_AXNECM20071103_063112_20071103_210000_20071104_090000	1	04-NOV-2007 02:12:05
ECMWF_FILE	AUX_ECF_AXNECM20071103_190111_20071104_030000_20071104_150000	7	04-NOV-2007 03:08:04
OPTIONAL_ECMWF_FILE	MISSING	1	04-NOV-2007 02:12:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071104_000609_000057382063_00073_29686_4490.N1	1	04-NOV-2007 02:12:05
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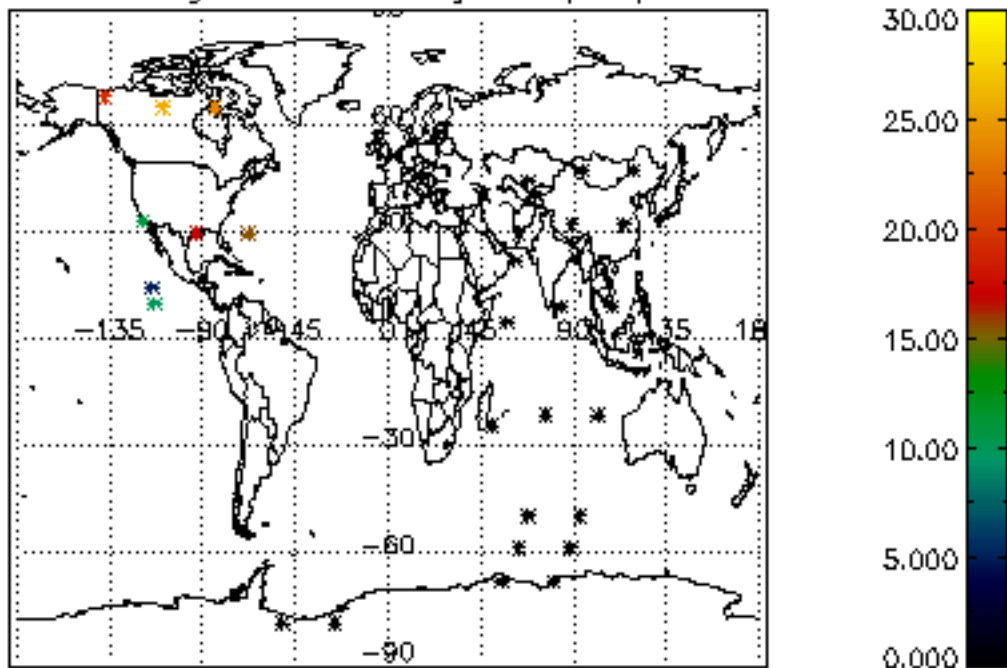




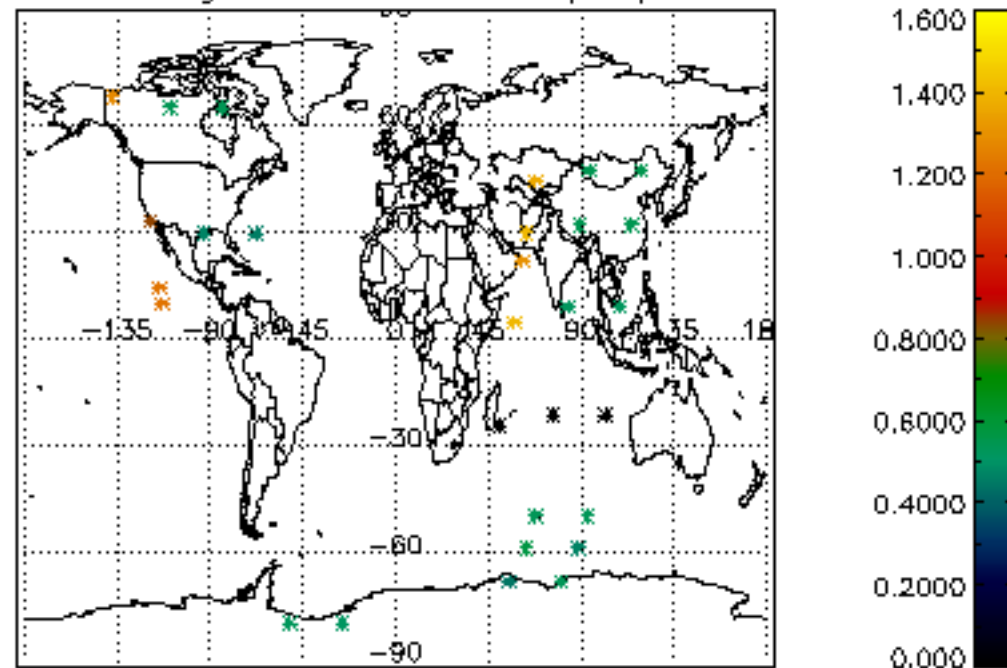




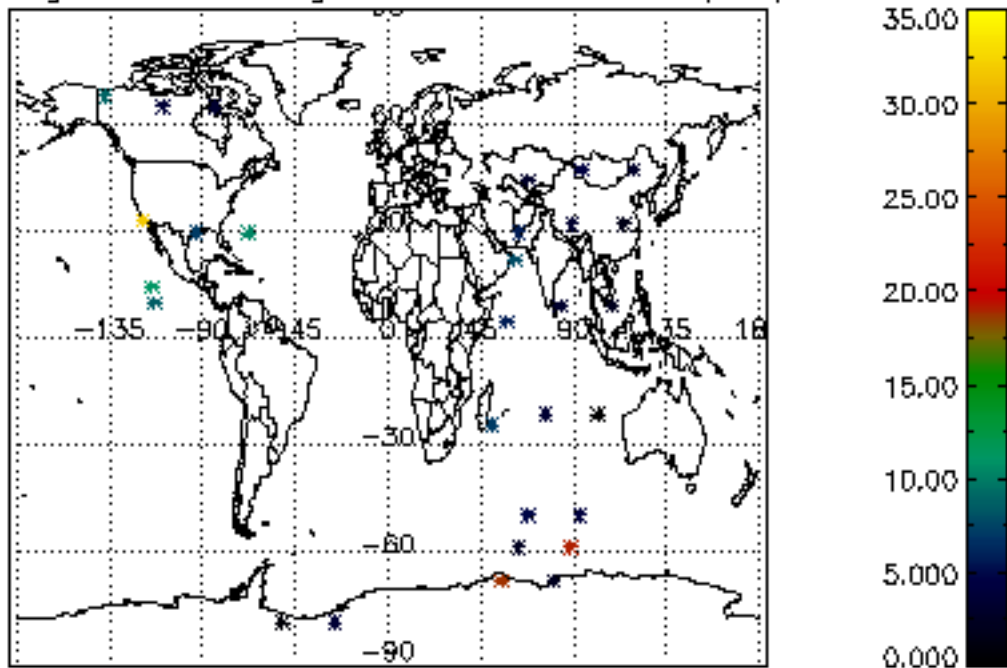
Percentage of cosmic ray hits per profile



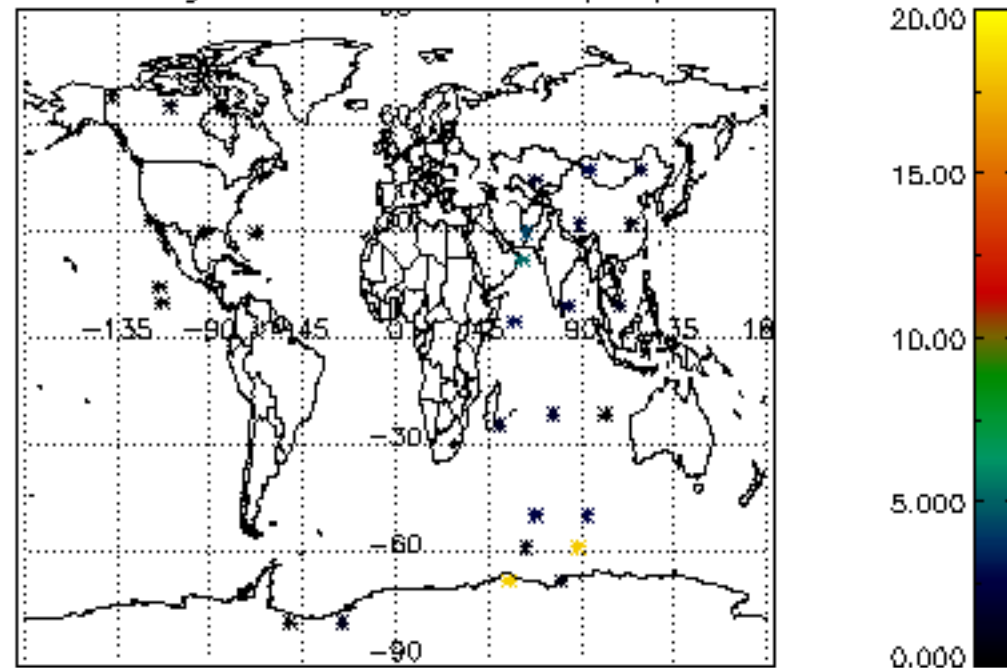
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

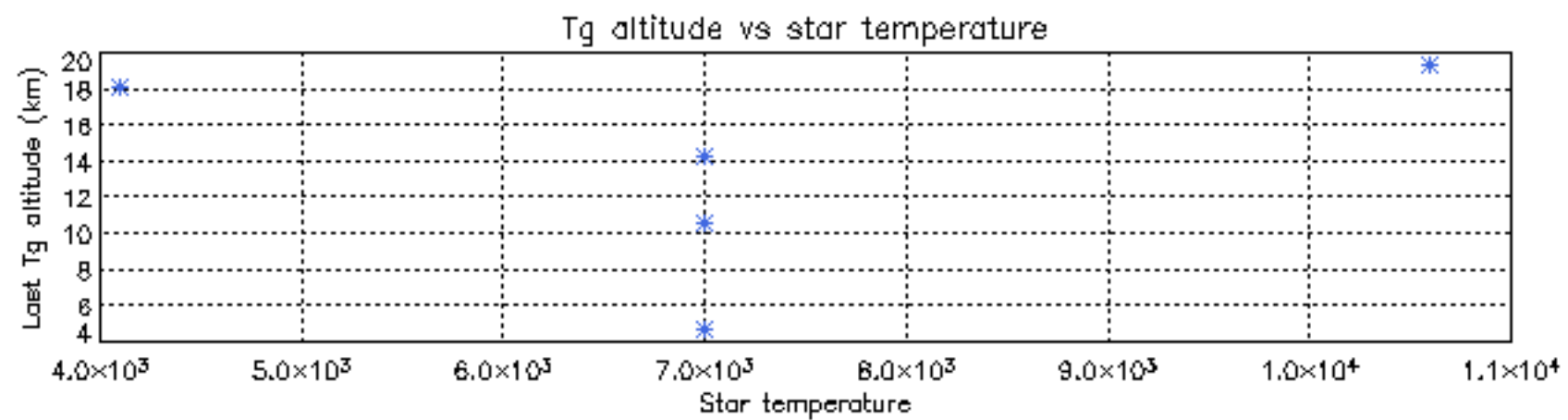
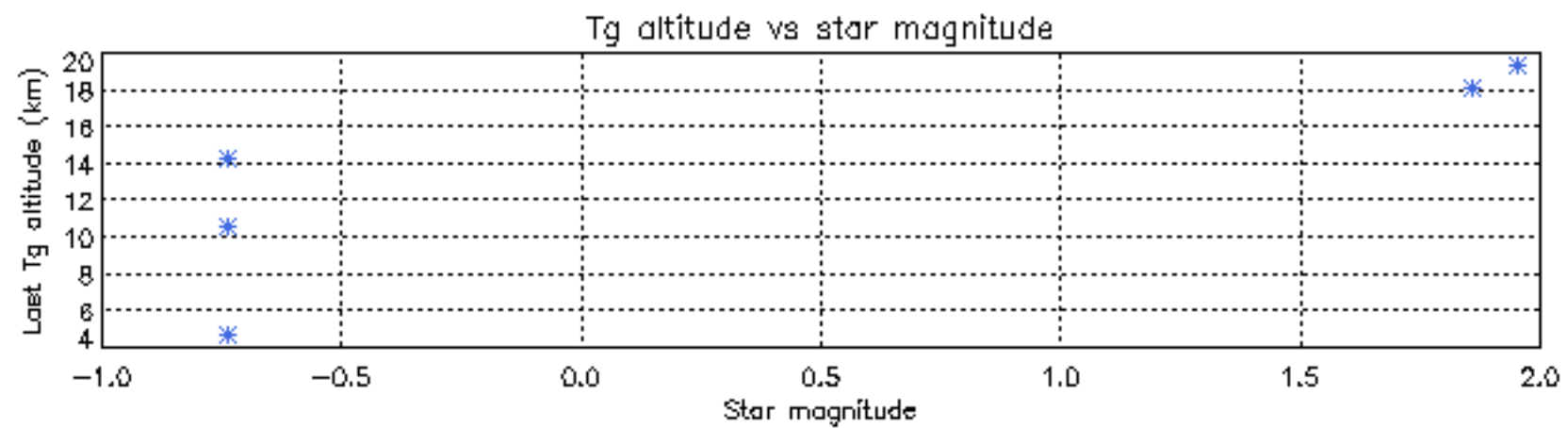
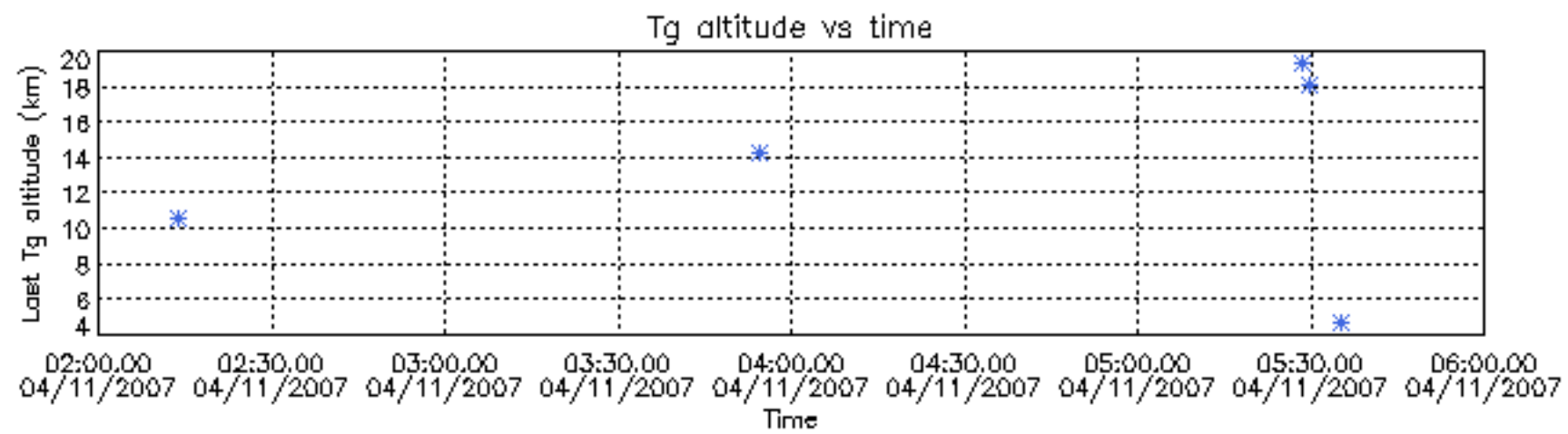


Percentage of saturation errors per profile

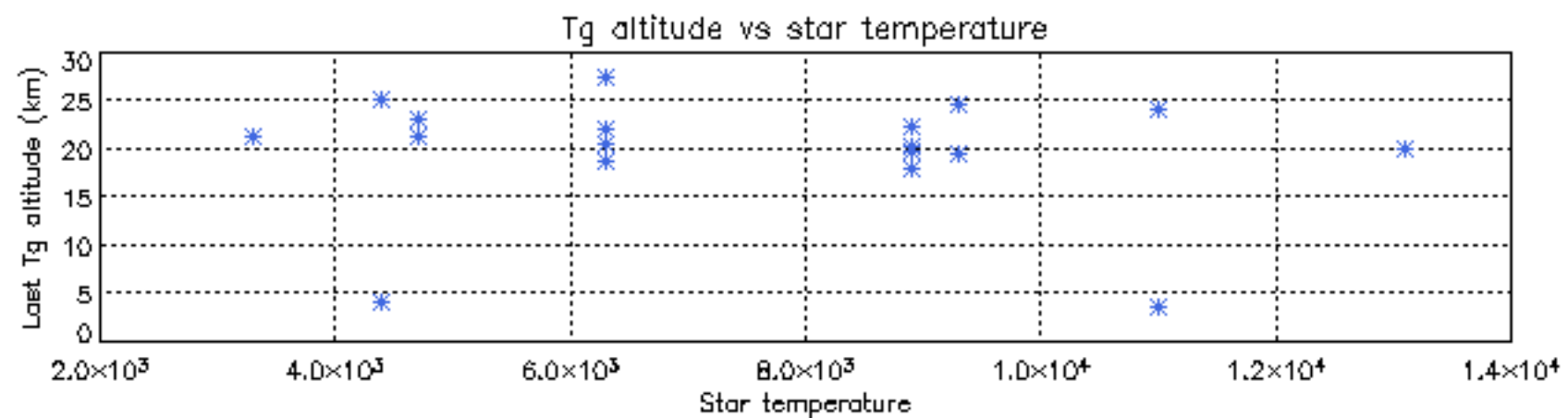
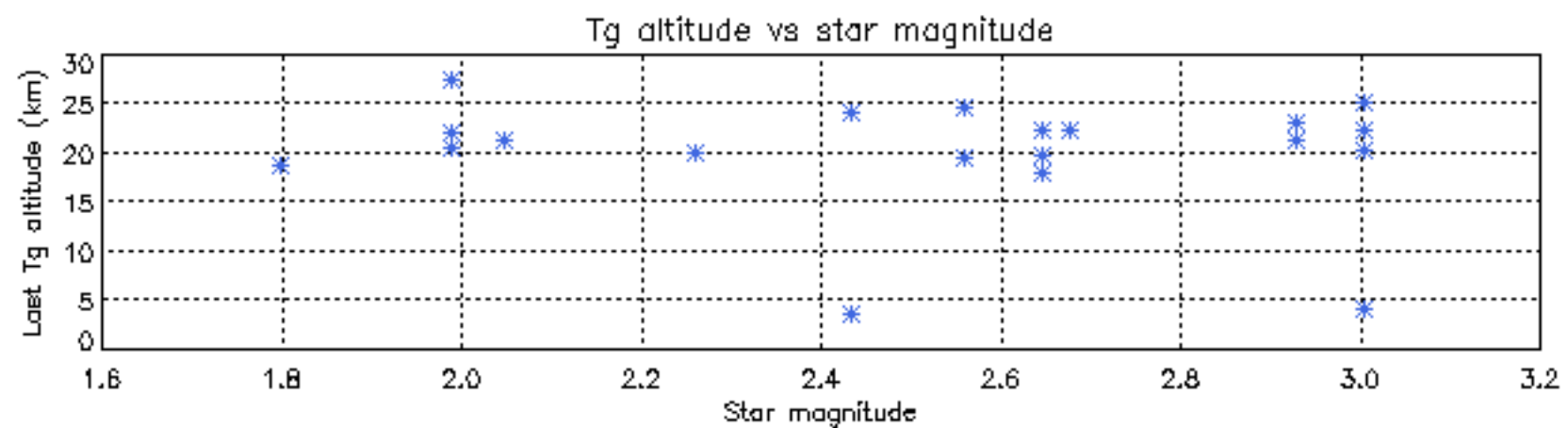
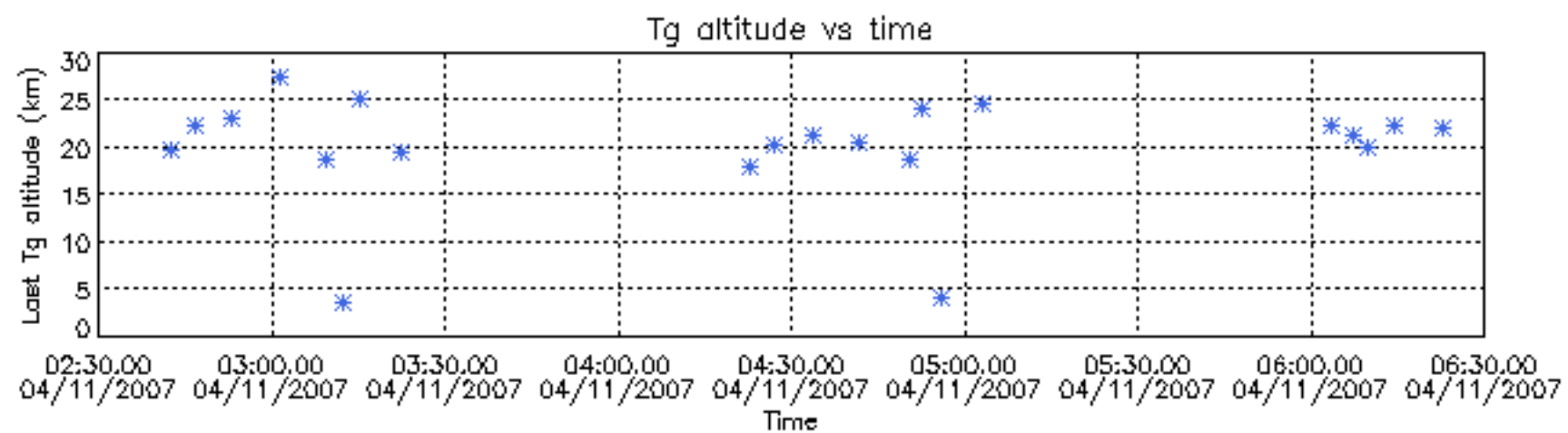


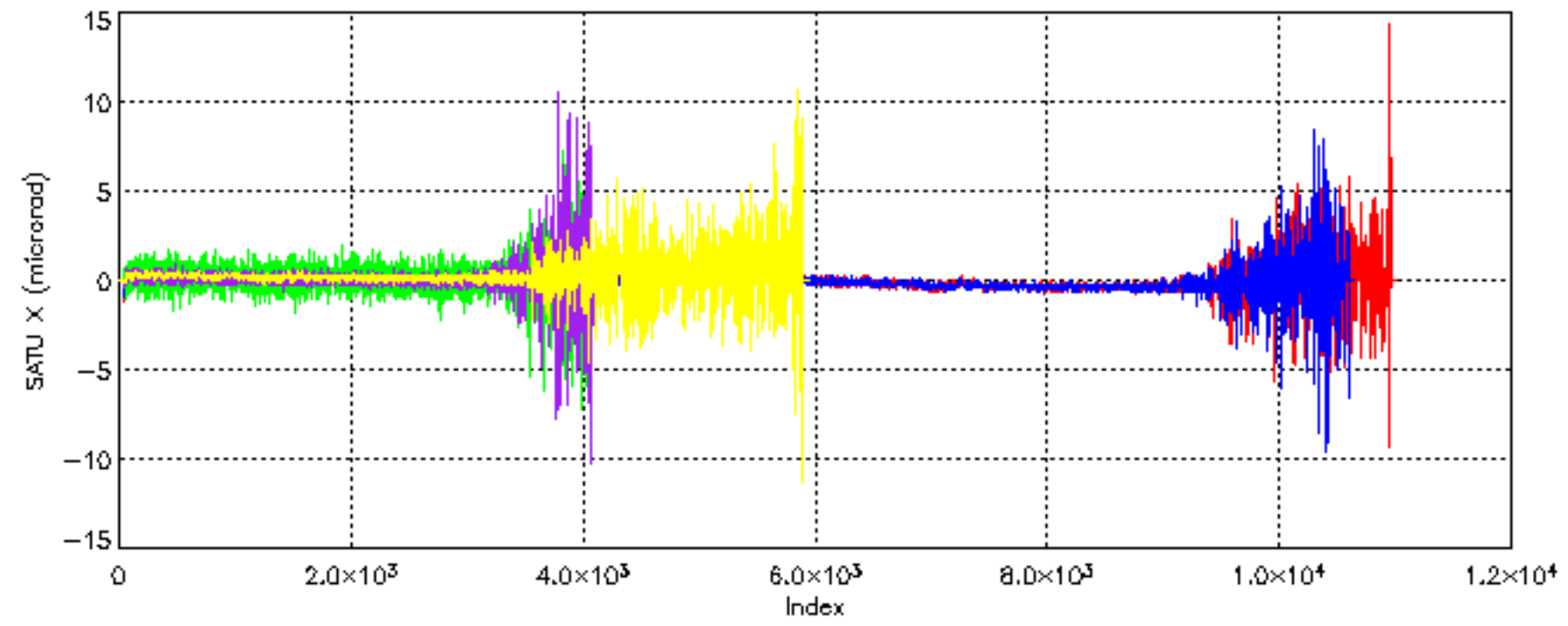


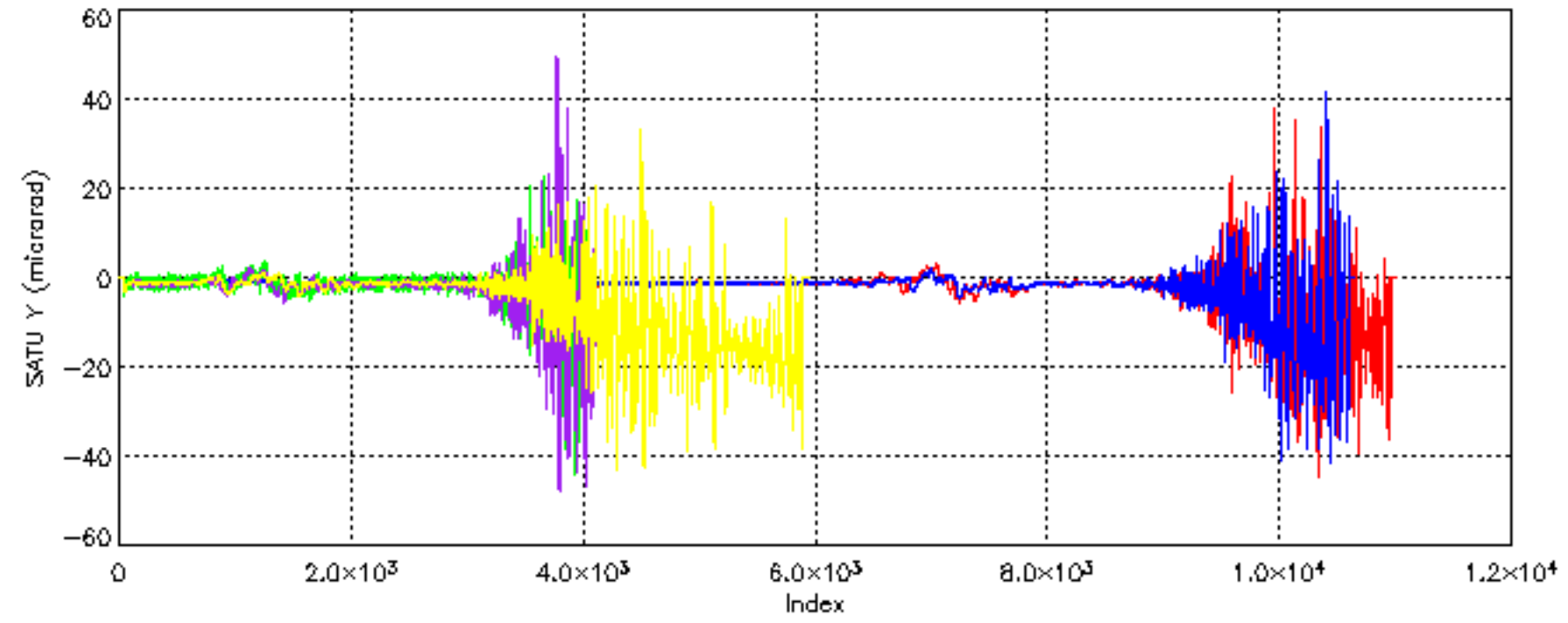
Tangent altitude at which the star is lost



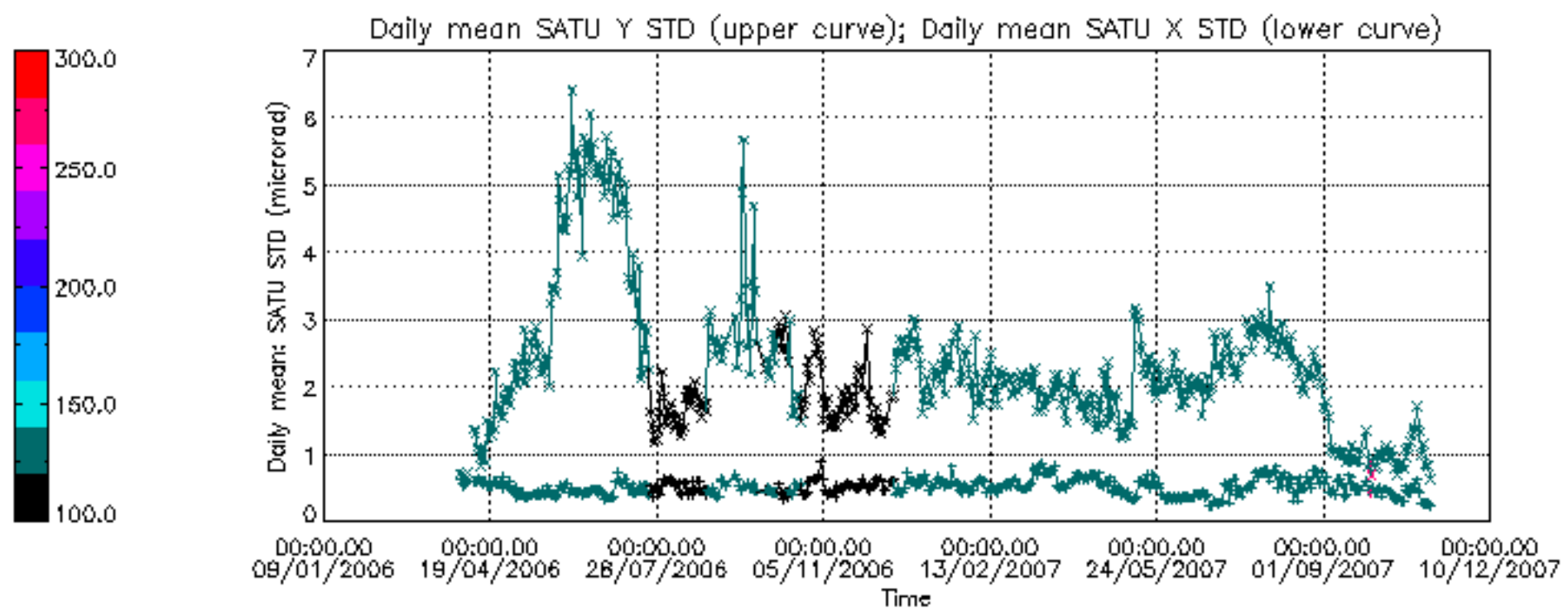
Tangent altitude at which the star is lost











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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
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10;	4229.7;	01-NOV-2007	19:54:35;	Bright;	;	56.0;	174;	52Psi UMa	;	3.00;	4400;occ;	112;	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
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7;	2272.5;	01-NOV-2007	22:43:10;	Bright;	;	38.0;	105;	6Bet Ari	;	2.64;	8900;occ;	76;	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
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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
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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
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15;	4229.8;	02-NOV-2007	00:56:23;	Bright;	;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	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
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 18; 5868.3; 28-NOV-2007 09:29:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30035  
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 12; 4637.0; 28-NOV-2007 10:49:27; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30036  
 13; 4844.1; 28-NOV-2007 10:52:54; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30036  
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 17; 5521.7; 28-NOV-2007 11:04:12; Dark ; 43.0; 171; 2Eps Crv ; 3.00; 4250;occ; 86; 0;30036  
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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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9; 4017.9; 28-NOV-2007 12:19:44; Bright; 48.5; 32; 77Eps UMa ; 1.76; 11000;occ; 97; 0;30037  
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17; 5522.5; 28-NOV-2007 12:44:49; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;30037  
18; 5869.4; 28-NOV-2007 12:50:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30037  
19; 6091.3; 28-NOV-2007 12:54:17; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;30037  
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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4; 2481.7; 28-NOV-2007 13:34:44; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30038  
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7; 3421.9; 28-NOV-2007 13:50:24; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30038  
8; 3699.7; 28-NOV-2007 13:55:02; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30038  
9; 4017.9; 28-NOV-2007 14:00:20; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;30038  
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17; 5476.7; 28-NOV-2007 14:24:39; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30038  
18; 5607.8; 28-NOV-2007 14:26:50; Dark ; 38.0; 123; Iot Cen ; 2.75; 10200;occ; 76; 0;30038  
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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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5; 2608.5; 28-NOV-2007 15:17:26; Bright; 37.5; 79; 26Bet Per ; 2.31; 13100;occ; 75; 0;30039  
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7; 3422.0; 28-NOV-2007 15:31:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30039  
8; 3699.8; 28-NOV-2007 15:35:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;30039  
9; 4017.9; 28-NOV-2007 15:40:56; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30039  
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18; 5608.2; 28-NOV-2007 16:07:26; Dark ; 36.5; 123; Iot Cen ; 2.75; 10200;occ; 73; 0;30039  
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22; 4138.6; 30-NOV-2007 23:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;30072
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