

# GOMOS Daily Report 08-JUL-2008

## 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	10JUL2008 05:32:15
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

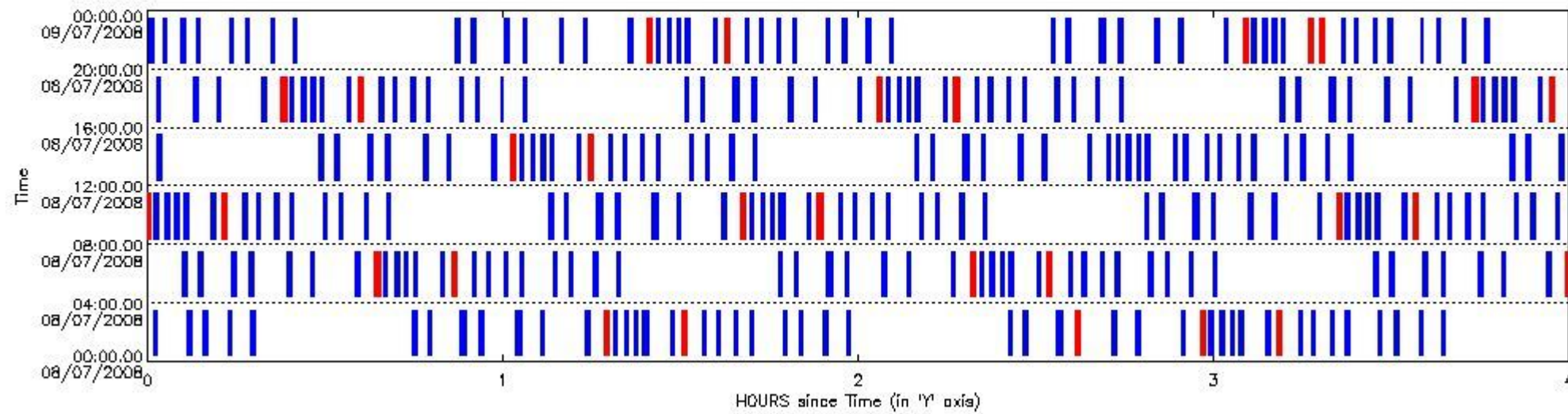
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
08-JUL-2008 01:17:04	BetAra	141	33223
08-JUL-2008 01:30:02	13ZetOph	98	33223
08-JUL-2008 02:36:30	The1Eri	157	33223
08-JUL-2008 02:57:40	BetAra	141	33224
08-JUL-2008 03:10:38	13ZetOph	98	33224
08-JUL-2008 04:38:16	BetAra	141	33225
08-JUL-2008 04:51:14	13ZetOph	98	33225
08-JUL-2008 06:18:52	BetAra	141	33226
08-JUL-2008 06:31:51	13ZetOph	98	33226
08-JUL-2008 07:59:28	BetAra	141	33227
08-JUL-2008 08:12:27	13ZetOph	98	33227
08-JUL-2008 09:40:04	BetAra	141	33228
08-JUL-2008 09:53:03	13ZetOph	98	33228
08-JUL-2008 11:20:40	BetAra	141	33229
08-JUL-2008 11:33:39	13ZetOph	98	33229

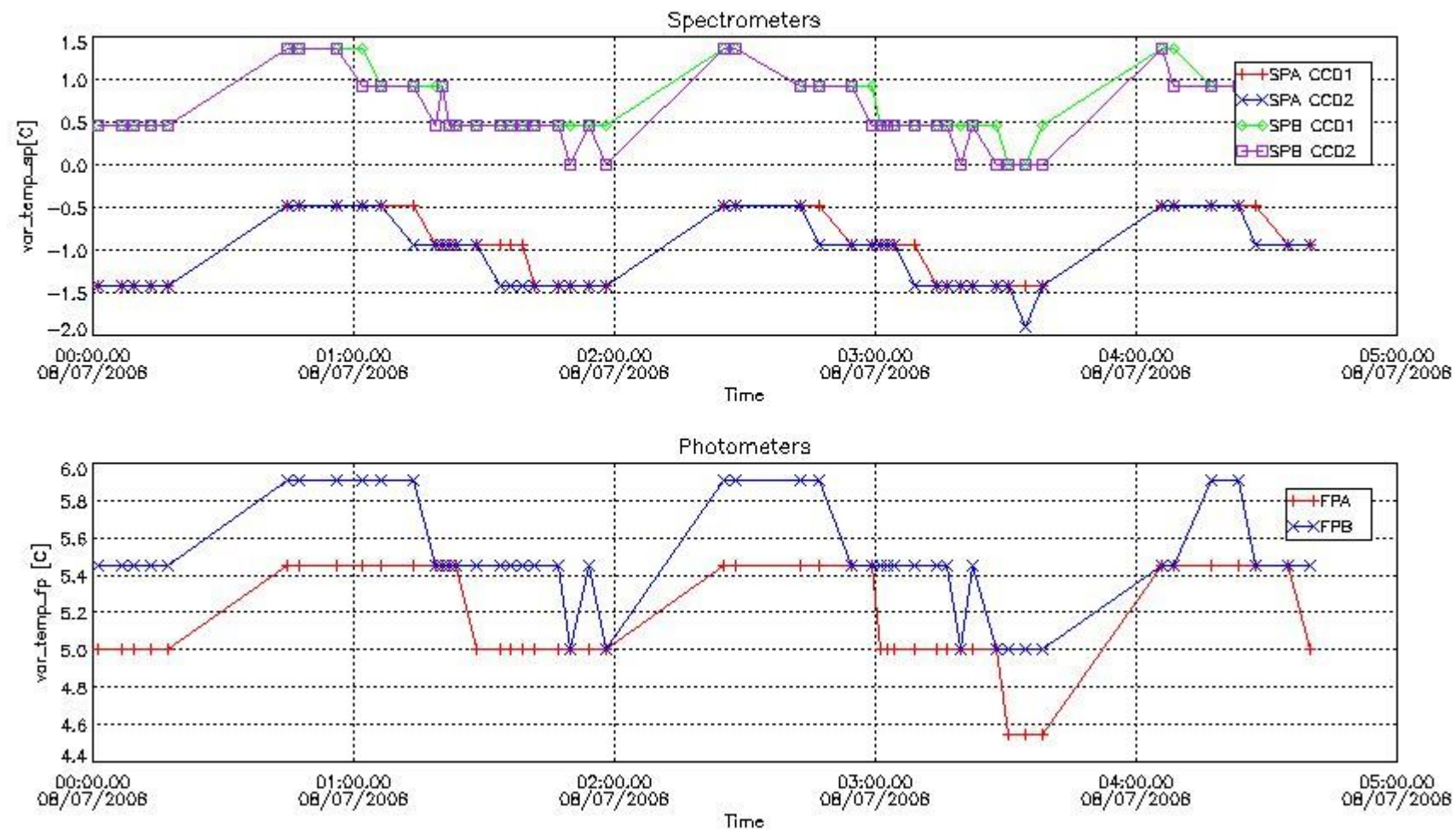
08-JUL-2008 13:01:16	BetAra	141	33230
08-JUL-2008 13:14:15	13ZetOph	98	33230
08-JUL-2008 16:22:29	BetAra	141	33232
08-JUL-2008 16:35:27	13ZetOph	98	33232
08-JUL-2008 18:03:05	BetAra	141	33233
08-JUL-2008 18:16:04	13ZetOph	98	33233
08-JUL-2008 19:43:41	BetAra	141	33234
08-JUL-2008 19:56:40	13ZetOph	98	33234
08-JUL-2008 21:24:17	BetAra	141	33235
08-JUL-2008 21:37:16	13ZetOph	98	33235
08-JUL-2008 23:04:53	BetAra	141	33236
08-JUL-2008 23:16:02	35EtaOph	86	33236
08-JUL-2008 23:17:52	13ZetOph	98	33236

## 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_1PNPDE20080708_000101_000000342070_00102_33222_6344.N1	08-JUL-2008 00:01:01	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	33222	No
2	GOM_TRA_1PNPDE20080708_000638_000000422070_00102_33222_6345.N1	08-JUL-2008 00:06:38	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	33222	No
3	GOM_TRA_1PNPDE20080708_000921_000000372070_00102_33222_6346.N1	08-JUL-2008 00:09:21	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33222	No
4	GOM_TRA_1PNPDE20080708_001329_000000342070_00102_33222_6347.N1	08-JUL-2008 00:13:29	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	33222	No
5	GOM_TRA_1PNPDE20080708_001725_000000352070_00102_33222_6348.N1	08-JUL-2008 00:17:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33222	No
6	GOM_TRA_1PNPDE20080708_004440_000000402070_00102_33222_6349.N1	08-JUL-2008 00:44:40	Dark	39.500	7	19Bet Ori	0.10000	14000.	79	33222	No
7	GOM_TRA_1PNPDE20080708_004715_000000372070_00102_33222_6350.N1	08-JUL-2008 00:47:15	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	33222	No
8	GOM_TRA_1PNPDE20080708_005556_000000412070_00102_33222_6560.N1	08-JUL-2008 00:55:56	Dark	40.500	157	The1Eri	2.9060	9300.0	81	33222	No
9	GOM_TRA_1PNPDE20080708_010208_000000512070_00103_33223_6561.N1	08-JUL-2008 01:02:08	Dark	51.000	9	Alp Eri	0.45300	24000.	102	33223	No
10	GOM_TRA_1PNPDE20080708_010617_000000372070_00103_33223_6562.N1	08-JUL-2008 01:06:17	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33223	No
11	GOM_TRA_1PNPDE20080708_011350_000000422070_00103_33223_6563.N1	08-JUL-2008 01:13:50	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33223	No
12	GOM_TRA_1PNPDE20080708_011837_000000382070_00103_33223_6564.N1	08-JUL-2008 01:18:37	Twilight	37.500	147	Alp Ara	2.8770	26000.	75	33223	No
13	GOM_TRA_1PNPDE20080708_012027_000000432070_00103_33223_6565.N1	08-JUL-2008 01:20:27	Twilight	42.500	40	The Sco	1.8590	7100.0	85	33223	No
14	GOM_TRA_1PNPDE20080708_012207_000000402070_00103_33223_6566.N1	08-JUL-2008 01:22:07	Twilight	39.500	25	35Lam Sco	1.6200	28000.	79	33223	No
15	GOM_TRA_1PNPDE20080708_012335_000000532070_00103_33223_6567.N1	08-JUL-2008 01:23:35	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	33223	No
16	GOM_TRA_1PNPDE20080708_012816_000000372070_00103_33223_6568.N1	08-JUL-2008 01:28:16	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33223	No
17	GOM_TRA_1PNPDE20080708_013341_000000362070_00103_33223_6569.N1	08-JUL-2008 01:33:41	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33223	No
18	GOM_TRA_1PNPDE20080708_013558_000000362070_00103_33223_6570.N1	08-JUL-2008 01:35:58	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33223	No
19	GOM_TRA_1PNPDE20080708_013900_000000362070_00103_33223_6571.N1	08-JUL-2008 01:39:00	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	33223	No
20	GOM_TRA_1PNPDE20080708_014137_000000352070_00103_33223_6572.N1	08-JUL-2008 01:41:37	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	33223	No
21	GOM_TRA_1PNPDE20080708_014714_000000422070_00103_33223_6573.N1	08-JUL-2008 01:47:14	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	33223	No
22	GOM_TRA_1PNPDE20080708_014957_000000362070_00103_33223_6574.N1	08-JUL-2008 01:49:57	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	33223	No
23	GOM_TRA_1PNPDE20080708_015405_000000372070_00103_33223_6575.N1	08-JUL-2008 01:54:05	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	33223	No
24	GOM_TRA_1PNPDE20080708_015801_000000362070_00103_33223_6576.N1	08-JUL-2008 01:58:01	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33223	No
25	GOM_TRA_1PNPDE20080708_022516_000000452070_00103_33223_6607.N1	08-JUL-2008 02:25:16	Dark	44.500	7	19Bet Ori	0.10000	14000.	89	33223	No
26	GOM_TRA_1PNPDE20080708_022752_000000382070_00103_33223_6608.N1	08-JUL-2008 02:27:52	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	33223	No
27	GOM_TRA_1PNPDE20080708_024244_000000532070_00104_33224_6609.N1	08-JUL-2008 02:42:44	Dark	52.500	9	Alp Eri	0.45300	24000.	105	33224	No
28	GOM_TRA_1PNPDE20080708_024653_000000372070_00104_33224_6610.N1	08-JUL-2008 02:46:53	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33224	No
29	GOM_TRA_1PNPDE20080708_025427_000000392070_00104_33224_6611.N1	08-JUL-2008 02:54:27	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	33224	No
30	GOM_TRA_1PNPDE20080708_025913_000000392070_00104_33224_6612.N1	08-JUL-2008 02:59:13	Twilight	38.500	147	Alp Ara	2.8770	26000.	77	33224	No
31	GOM_TRA_1PNPDE20080708_030104_000000412070_00104_33224_6613.N1	08-JUL-2008 03:01:04	Twilight	41.000	40	The Sco	1.8590	7100.0	82	33224	No
32	GOM_TRA_1PNPDE20080708_030243_000000402070_00104_33224_6614.N1	08-JUL-2008 03:02:43	Twilight	39.500	25	35Lam Sco	1.6200	28000.	79	33224	No
33	GOM_TRA_1PNPDE20080708_030411_000000462070_00104_33224_6615.N1	08-JUL-2008 03:04:11	Bright	46.000	116	19Del Sgr	2.7000	4100.0	92	33224	No
34	GOM_TRA_1PNPDE20080708_030852_000000372070_00104_33224_6616.N1	08-JUL-2008 03:08:52	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33224	No
35	GOM_TRA_1PNPDE20080708_031417_000000362070_00104_33224_6617.N1	08-JUL-2008 03:14:17	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33224	No
36	GOM_TRA_1PNPDE20080708_031634_000000362070_00104_33224_6618.N1	08-JUL-2008 03:16:34	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33224	No
37	GOM_TRA_1PNPDE20080708_031936_000000362070_00104_33224_6619.N1	08-JUL-2008 03:19:36	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	33224	No
38	GOM_TRA_1PNPDE20080708_032213_000000362070_00104_33224_6620.N1	08-JUL-2008 03:22:13	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33224	No
39	GOM_TRA_1PNPDE20080708_032750_000000352070_00104_33224_6621.N1	08-JUL-2008 03:27:50	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	33224	No
40	GOM_TRA_1PNPDE20080708_033032_000000362070_00104_33224_6622.N1	08-JUL-2008 03:30:32	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	33224	No
41	GOM_TRA_1PNPDE20080708_033441_000000332070_00104_33224_6623.N1	08-JUL-2008 03:34:41	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	33224	No

42	GOM_TRA_1PNPDE20080708_033837_000000332070_00104_33224_6624.N1	08-JUL-2008 03:38:37	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33224	No
43	GOM_TRA_1PNPDE20080708_040552_000000382070_00104_33224_6753.N1	08-JUL-2008 04:05:52	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	33224	No
44	GOM_TRA_1PNPDE20080708_040828_000000452070_00104_33224_6754.N1	08-JUL-2008 04:08:28	Dark	45.000	165	34Gam Eri	2.9500	3200.0	90	33224	No
45	GOM_TRA_1PNPDE20080708_041709_000000402070_00104_33224_6755.N1	08-JUL-2008 04:17:09	Dark	39.500	157	The1Eri	2.9060	9300.0	79	33224	No
46	GOM_TRA_1PNPDE20080708_042321_000000522070_00105_33225_6756.N1	08-JUL-2008 04:23:21	Dark	51.500	9	Alp Eri	0.45300	24000.	103	33225	No
47	GOM_TRA_1PNPDE20080708_042729_000000362070_00105_33225_6757.N1	08-JUL-2008 04:27:29	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	33225	No
48	GOM_TRA_1PNPDE20080708_043503_000000422070_00105_33225_6758.N1	08-JUL-2008 04:35:03	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33225	No
49	GOM_TRA_1PNPDE20080708_043950_000000372070_00105_33225_6759.N1	08-JUL-2008 04:39:50	Twilight	36.500	147	Alp Ara	2.8770	26000.	73	33225	No

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



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

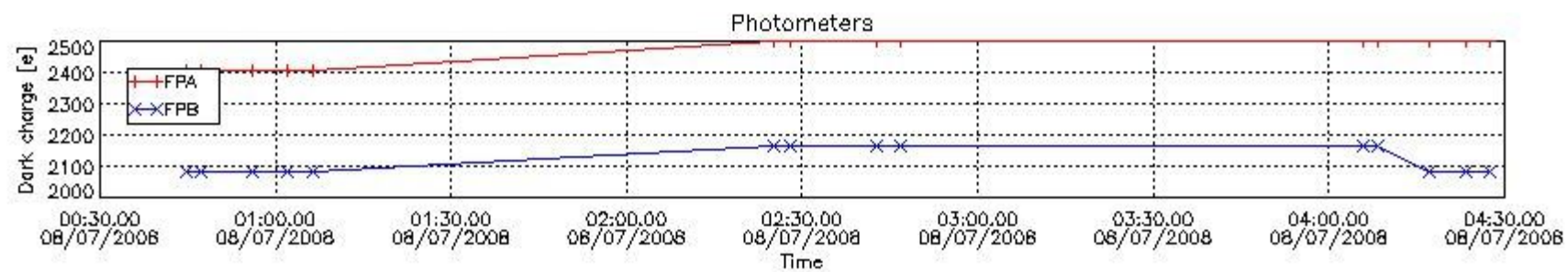
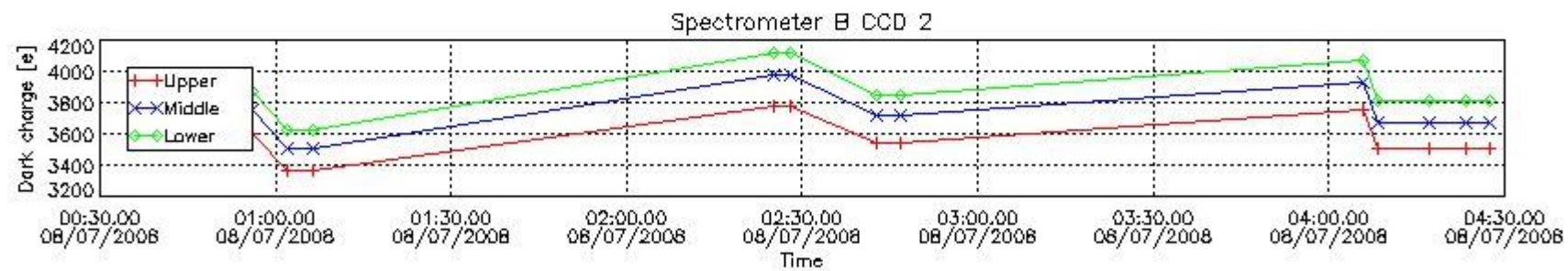
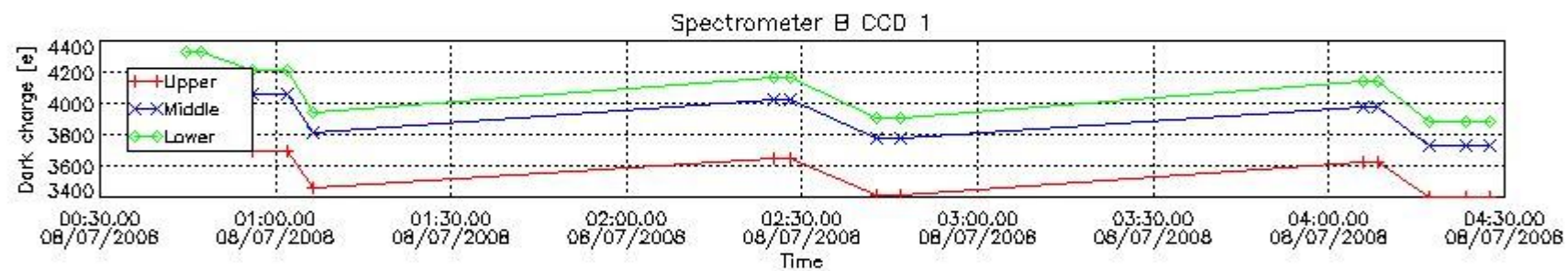
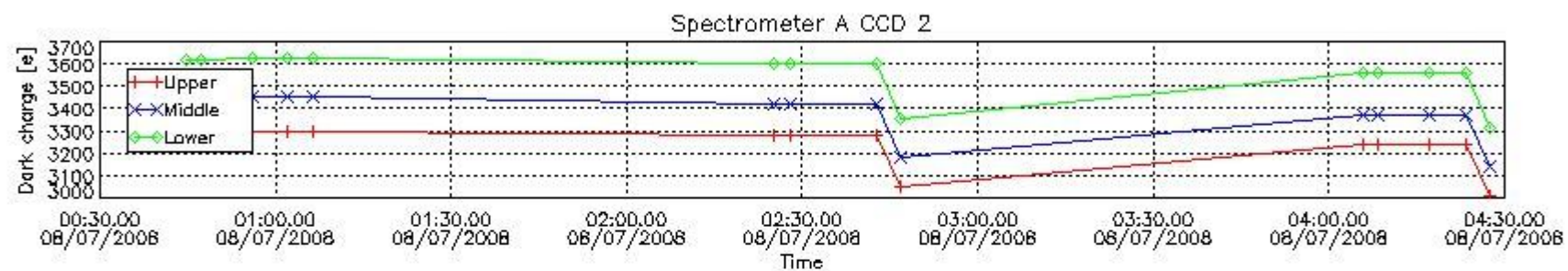
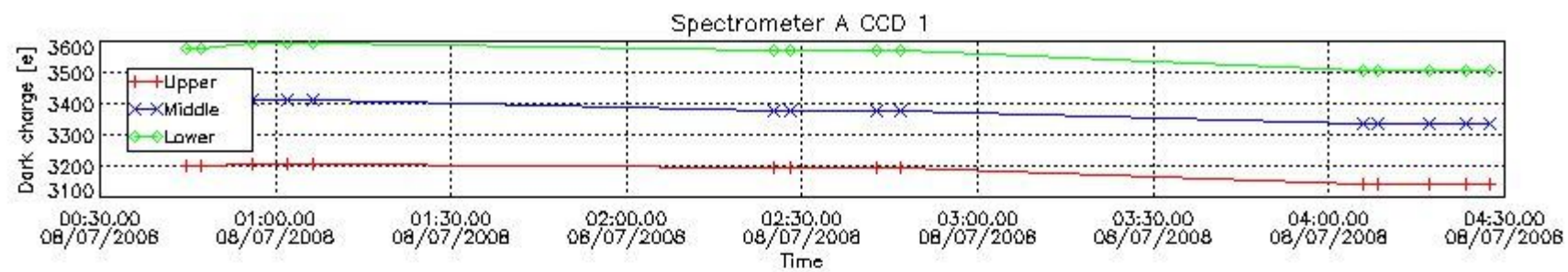
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





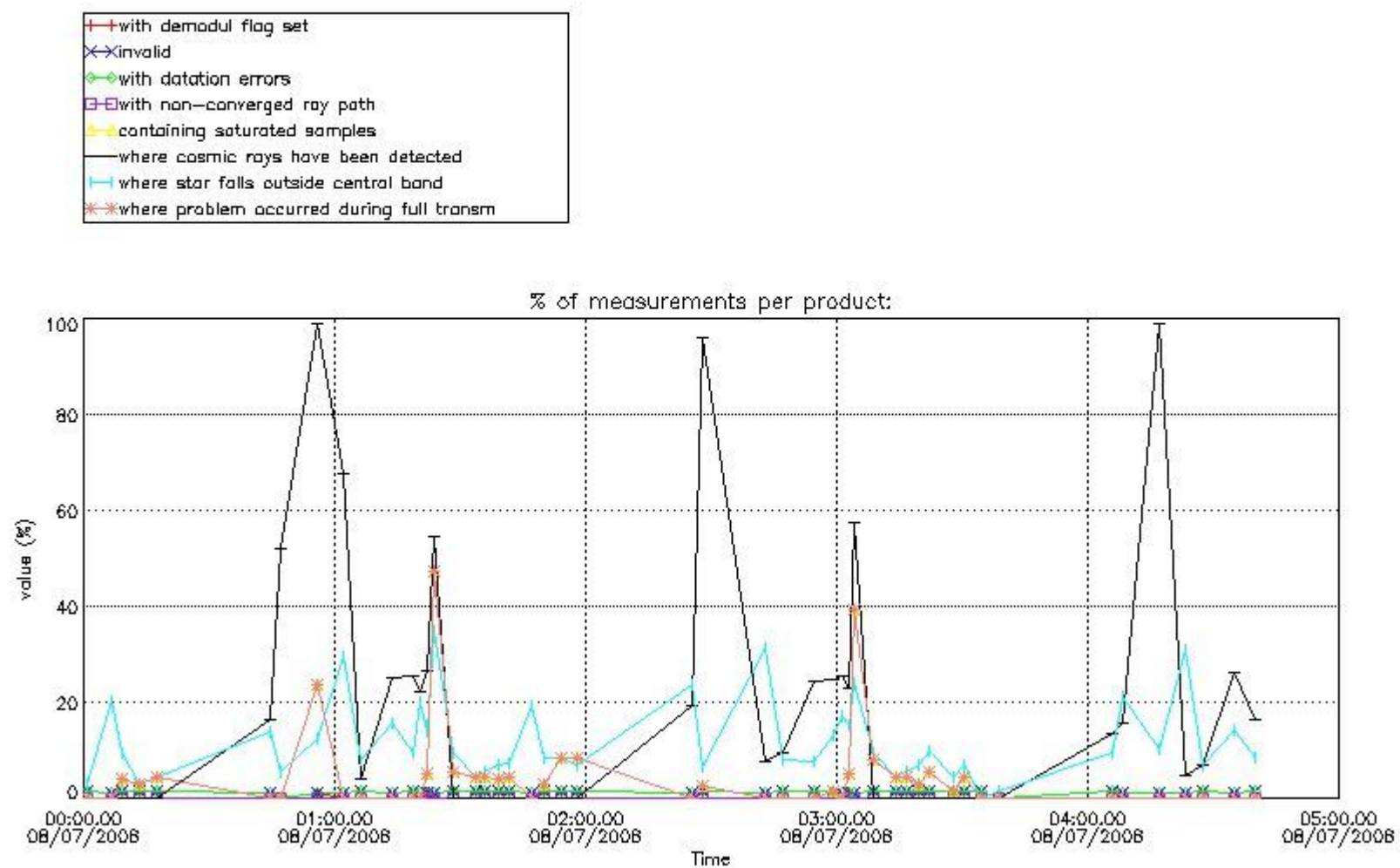
## 5. Demodulation flag and quality information monitoring

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:

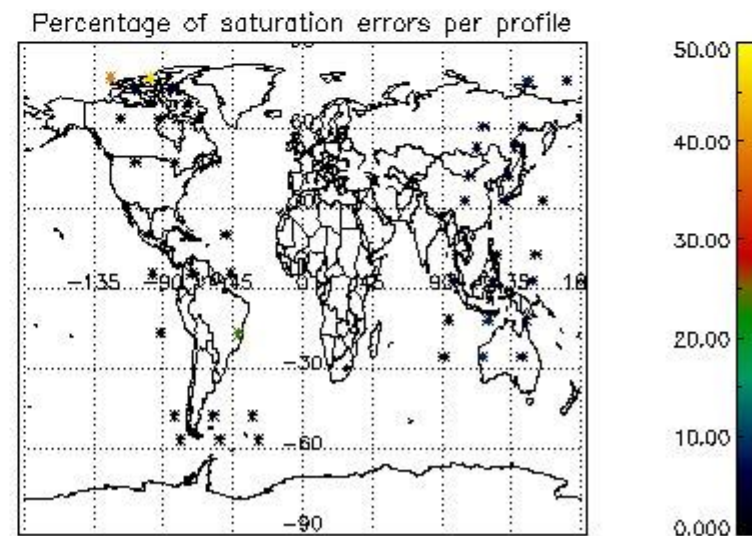
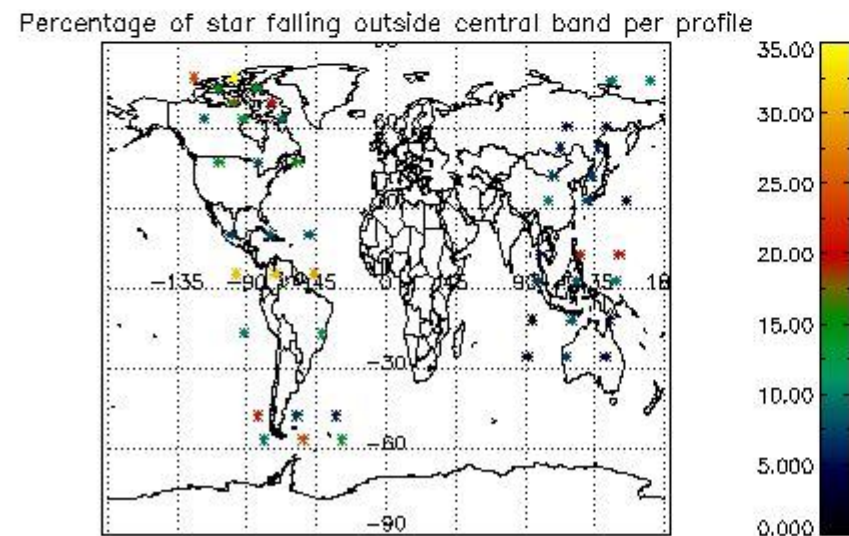
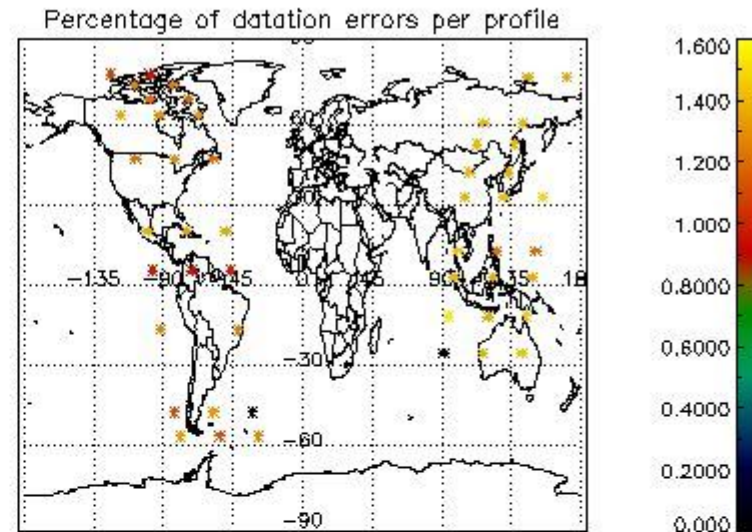
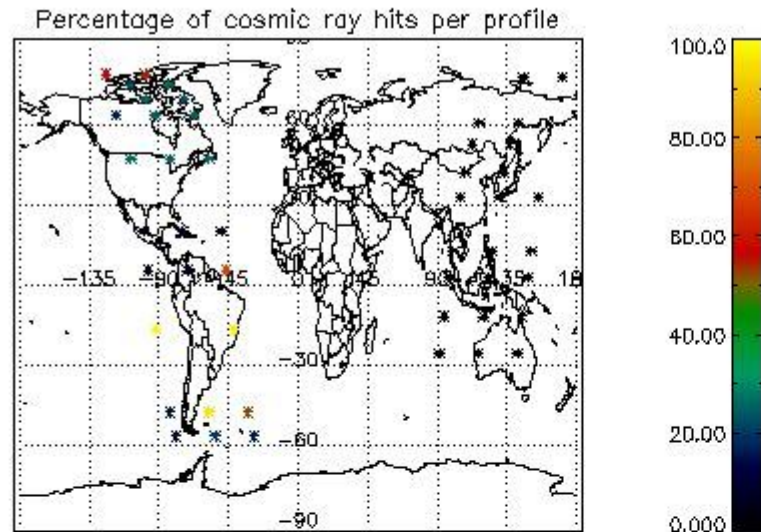
At least one measurement with demodulation flag set:	24.4898 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





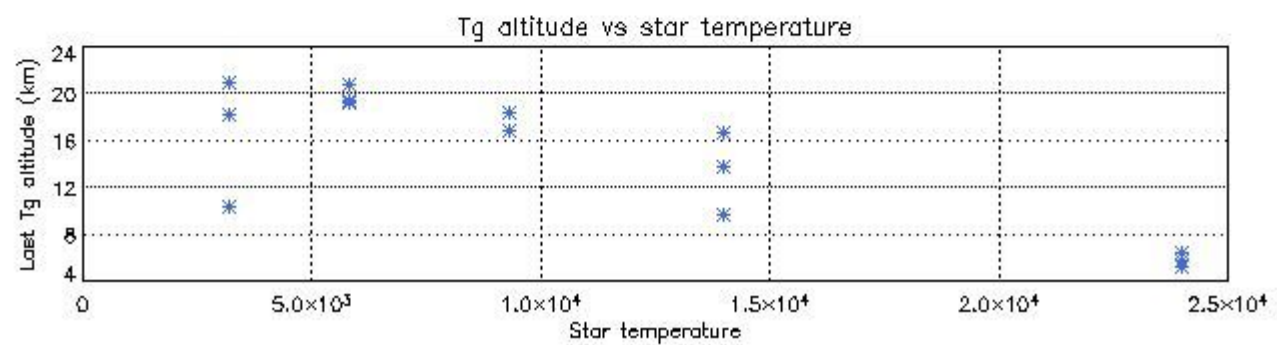
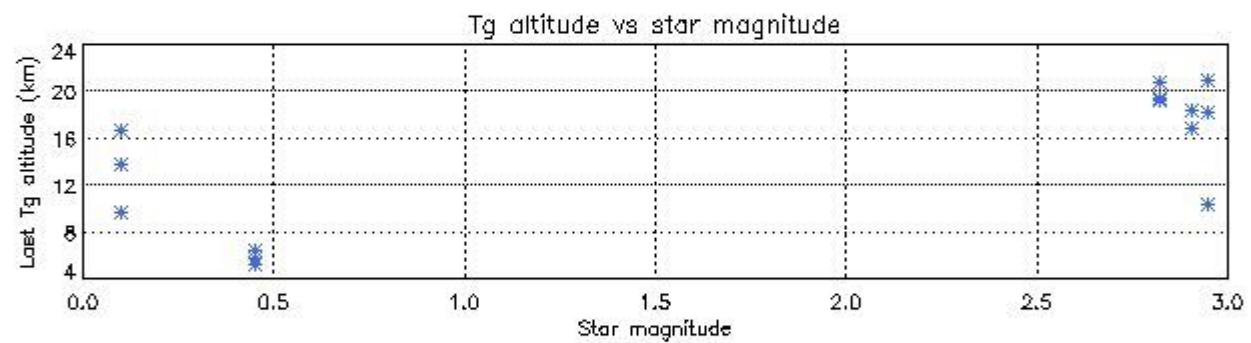
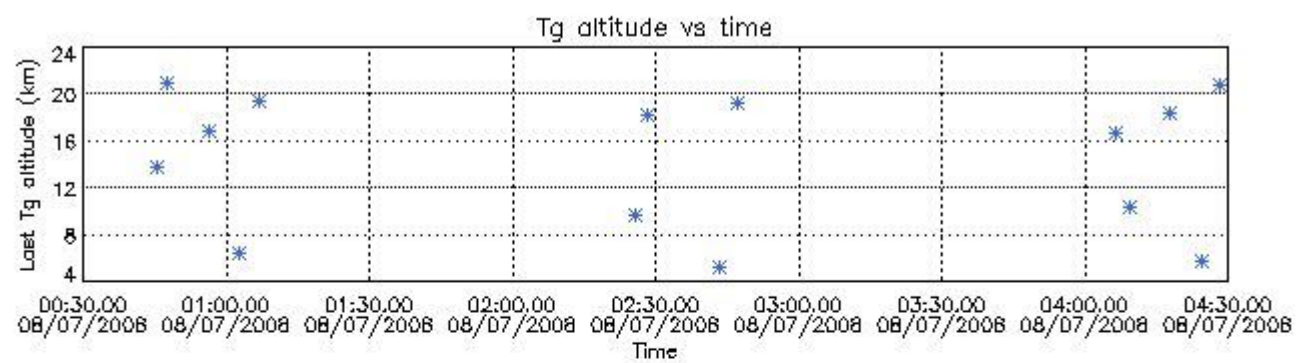
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.382	19.924	NaN
St. deviation:	5.8008	5.3126	NaN
Maximum:	20.926	28.730	NaN
Minimum:	5.2220	3.9242	NaN
Number of data:	14.000	25.000	NaN

### 6.2 Plot for DARK limb products

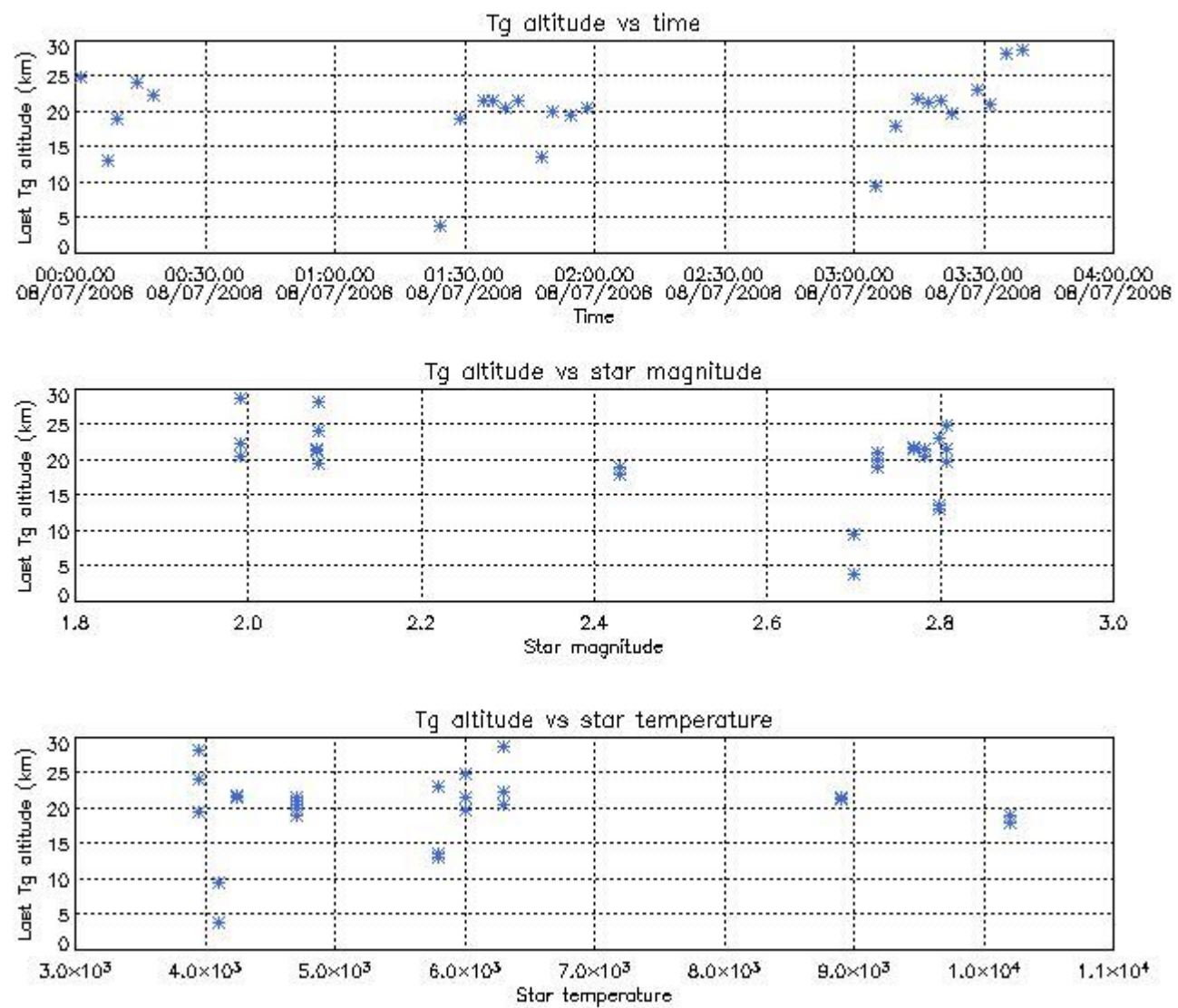
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

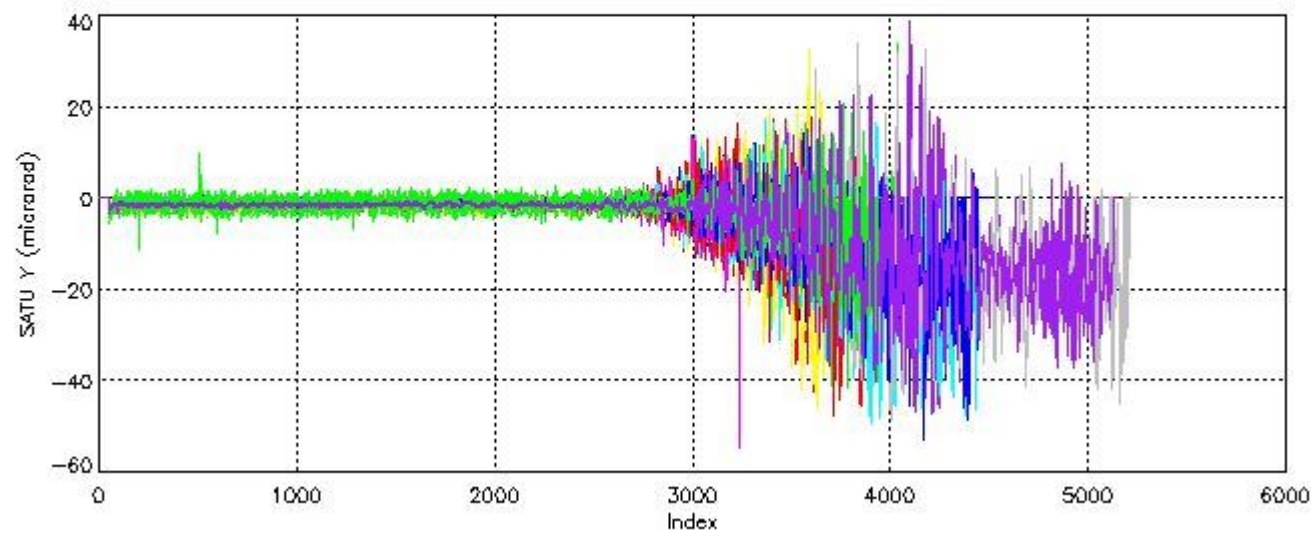
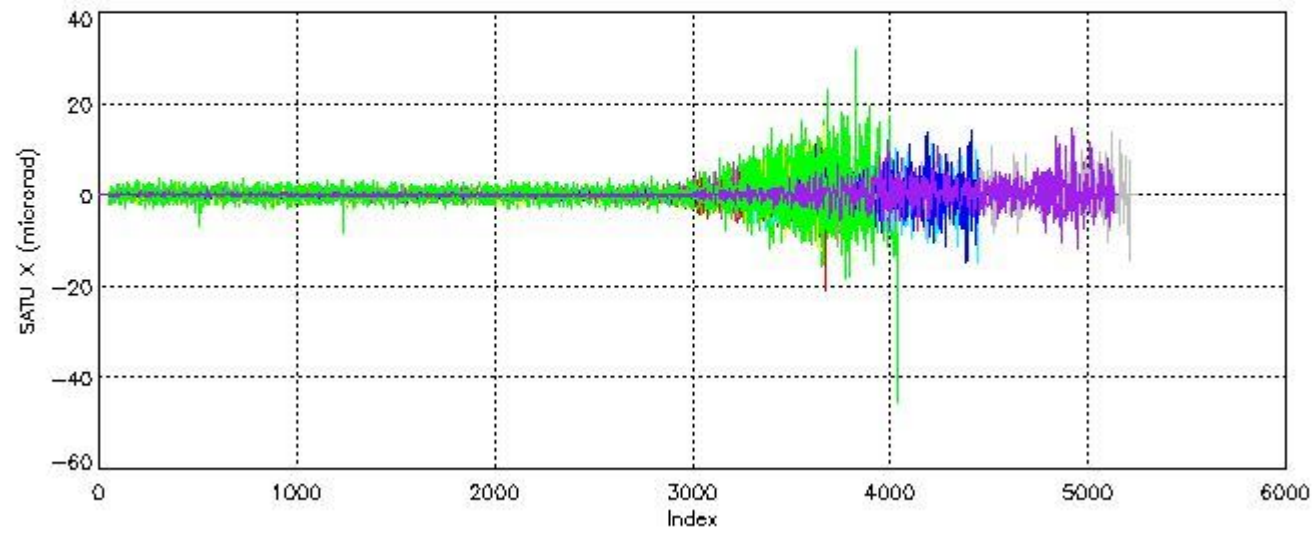


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.019380	-1.3817	0.012452	-1.4129
St. deviation:	0.44924	0.68920	0.65110	0.80139
Maximum:	3.8000	9.8000	3.0000	2.3000
Minimum:	-7.1000	-11.400	-3.4000	-5.9000

Number of data:	12050.	12050.	20350.	20350.
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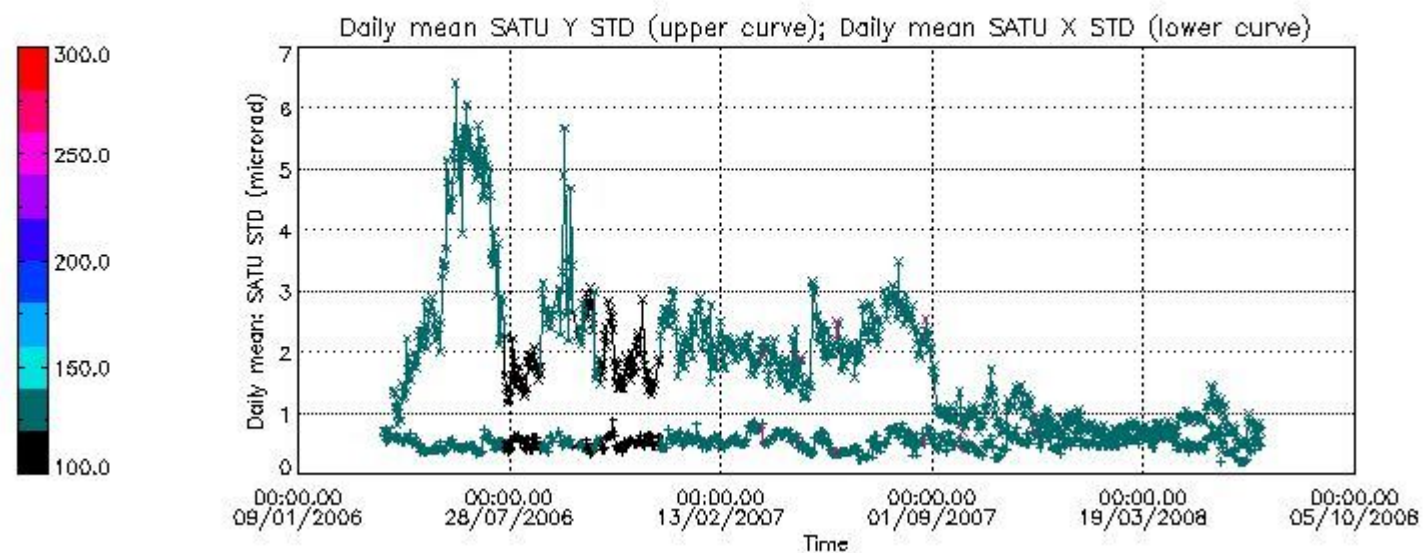
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

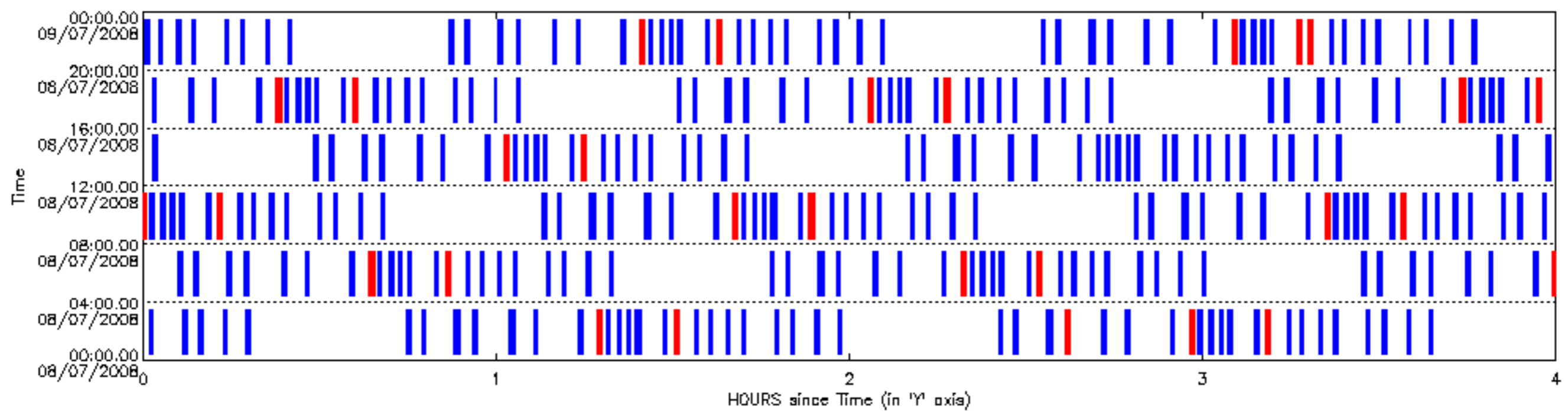


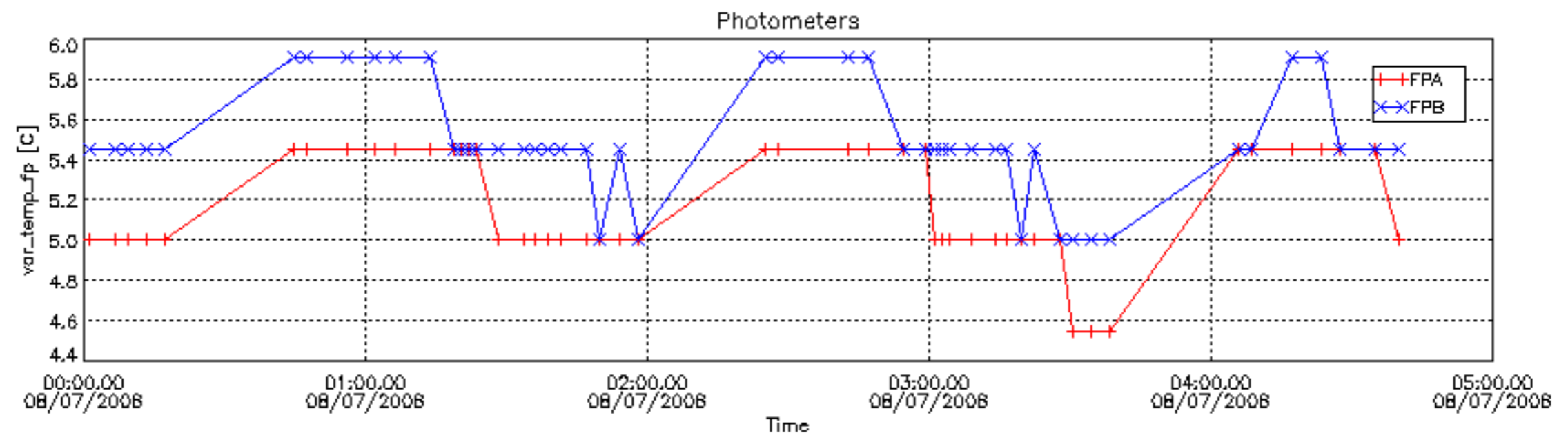
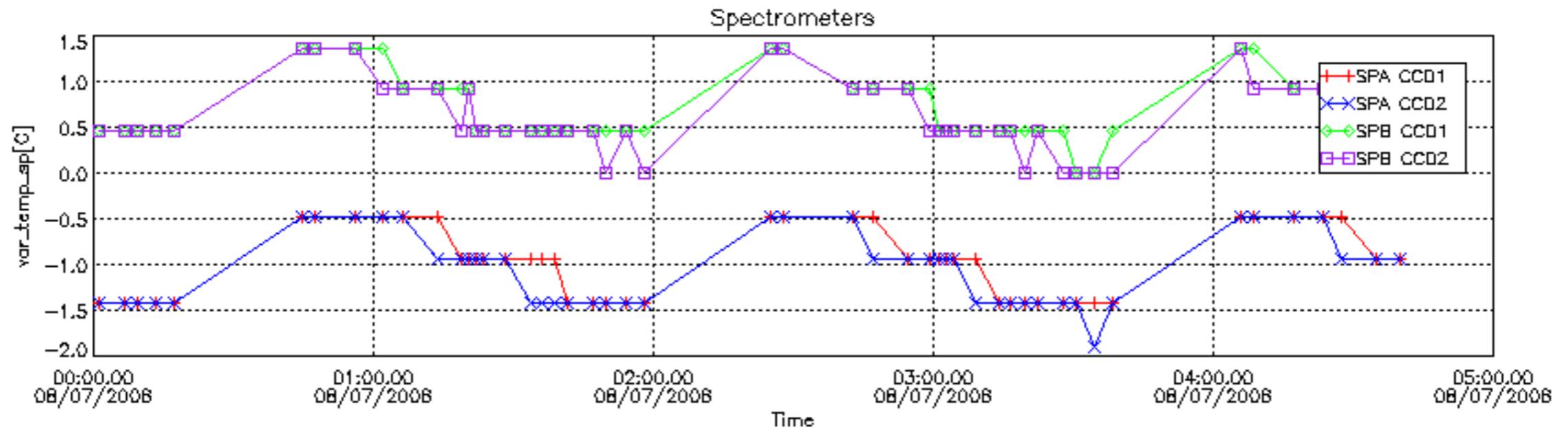
### 8. Auxiliary Data Files used for the production reported in section 2.4

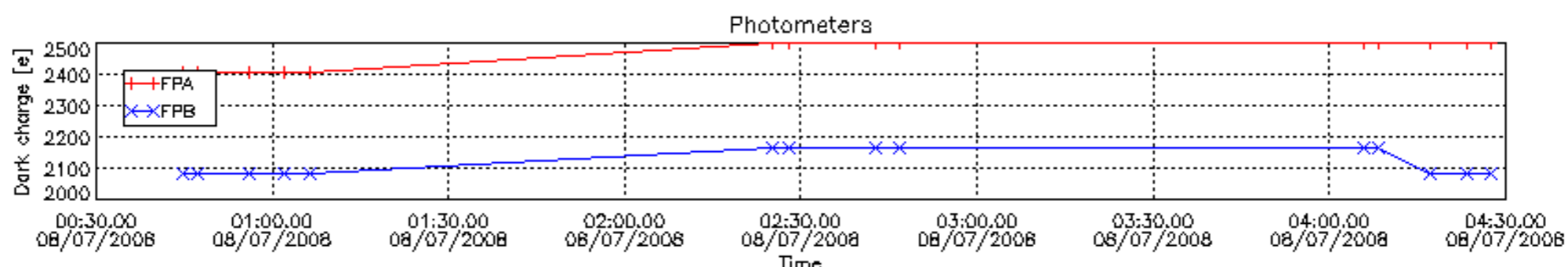
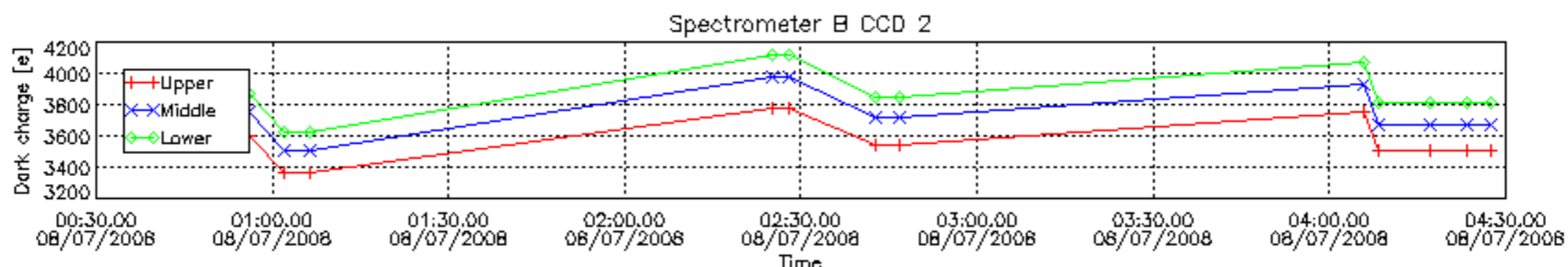
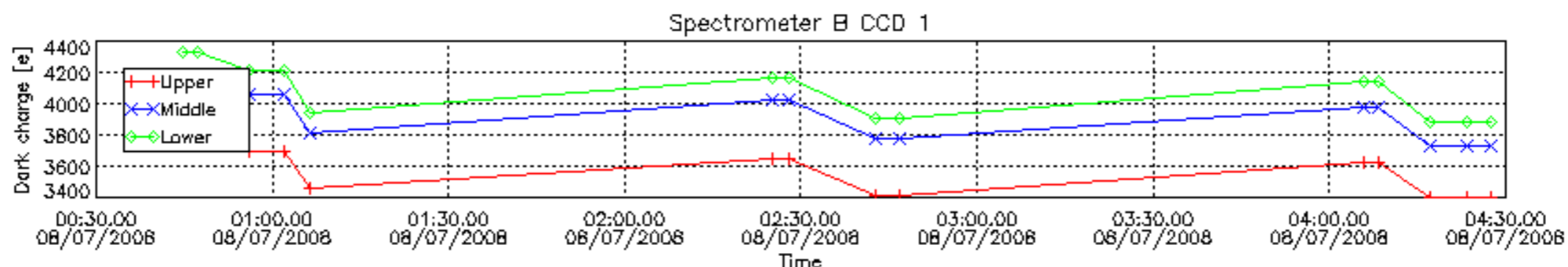
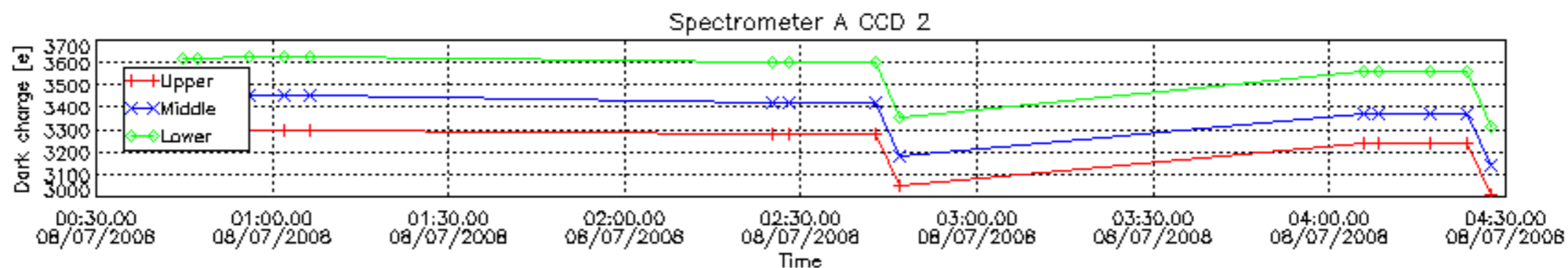
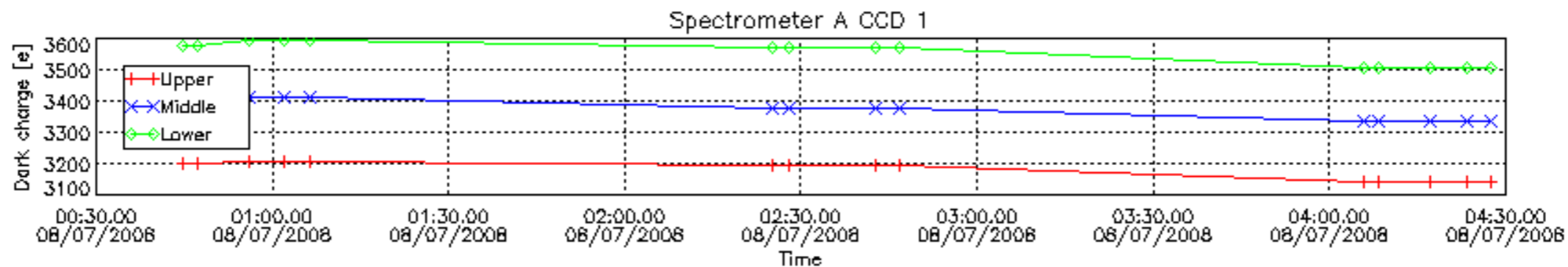
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JUL-2008 00:01:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080707_131940_20080705_000000_20100101_000000	1	08-JUL-2008 00:01:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JUL-2008 00:01:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUL-2008 00:01:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JUL-2008 00:01:01
ECMWF_FILE	AUX_ECF_AXNECM20080707_072111_20080707_210000_20080708_090000	1	08-JUL-2008 00:01:01
ECMWF_FILE	AUX_ECF_AXNECM20080707_192113_20080708_030000_20080708_150000	43	08-JUL-2008 04:05:52
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUL-2008 00:01:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080707_212622_000057382070_00100_33220_5903.N1	1	08-JUL-2008 00:01:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080707_230719_000057382070_00101_33221_5782.N1	8	08-JUL-2008 00:55:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080708_022354_000041442070_00103_33223_5784.N1	25	08-JUL-2008 02:25:16





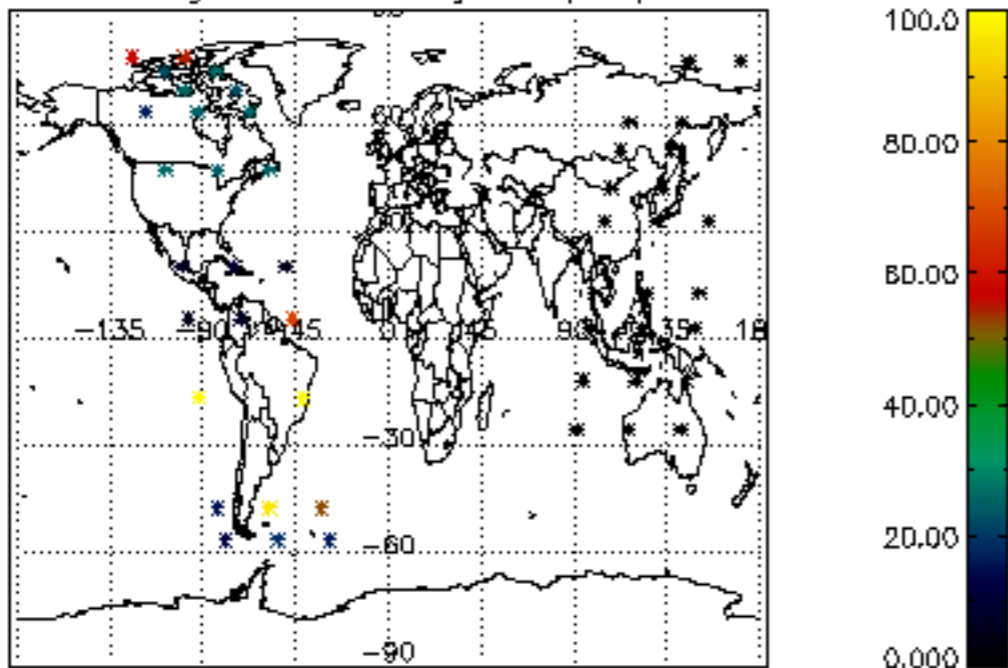




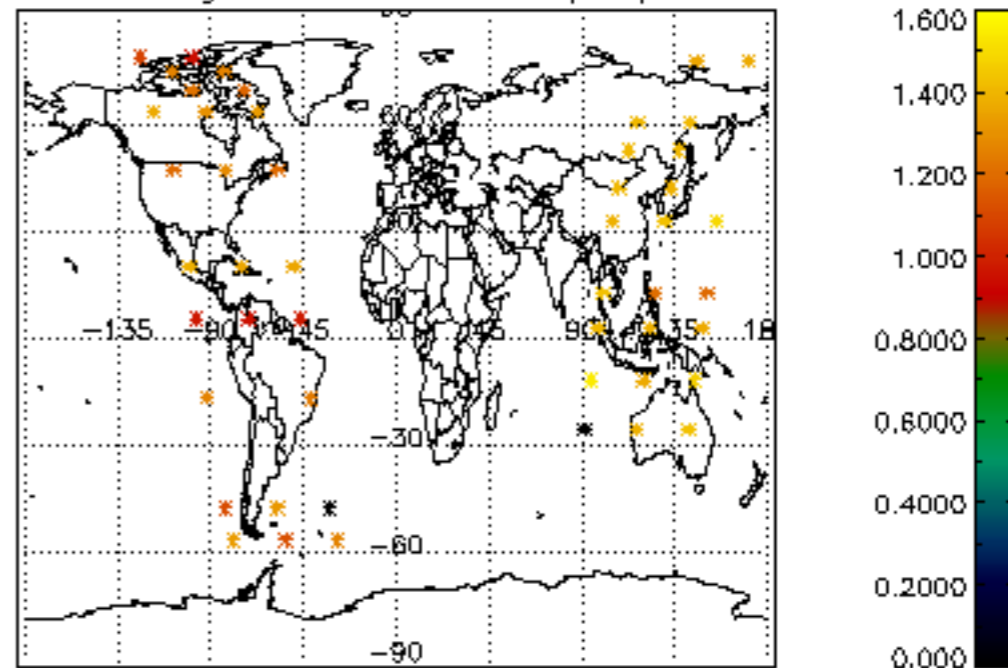




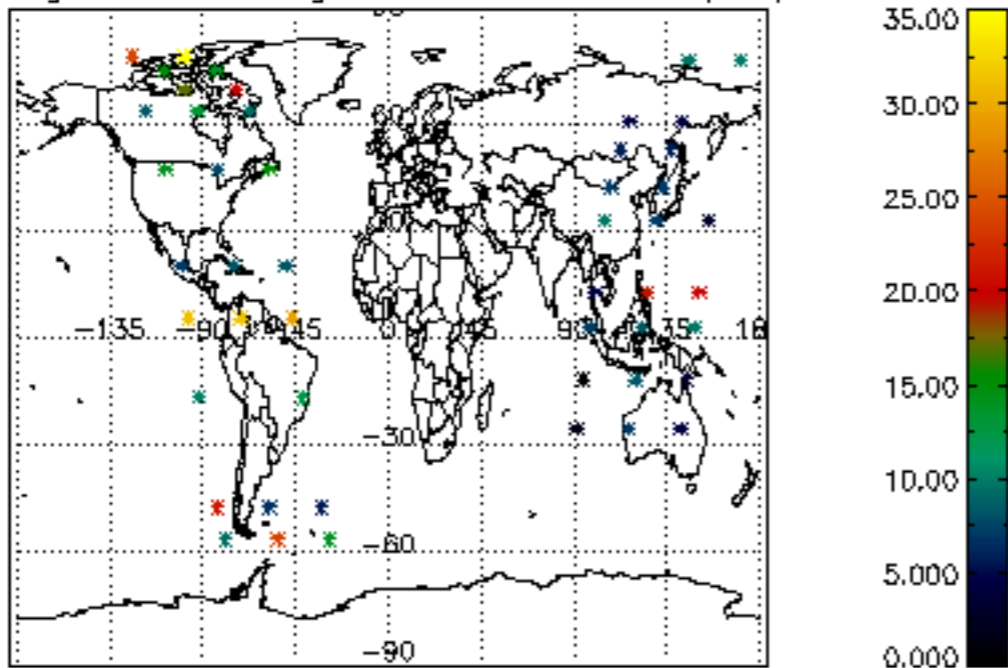
Percentage of cosmic ray hits per profile



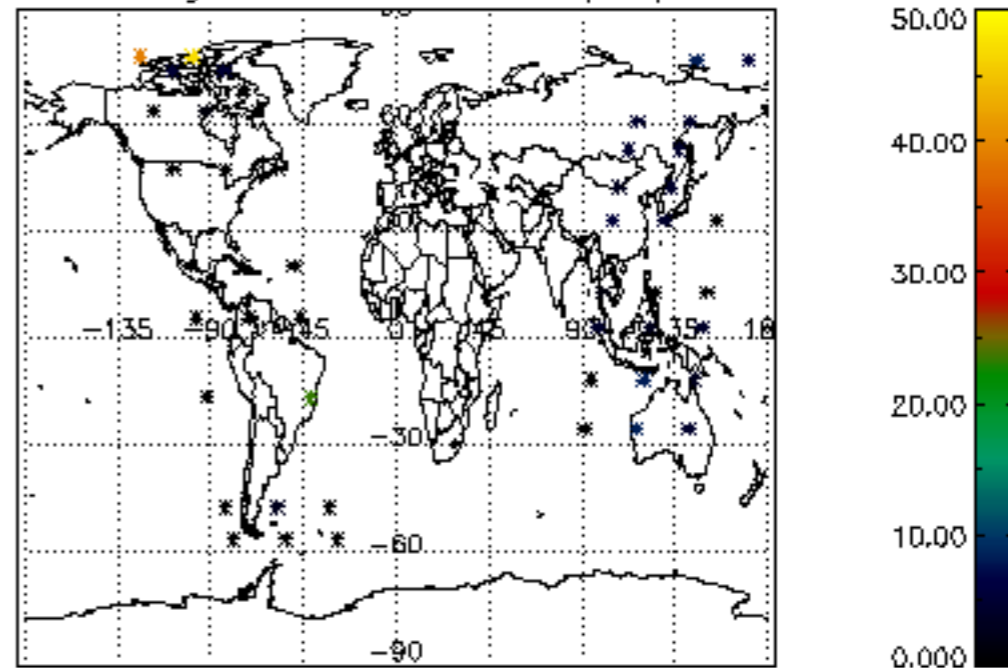
Percentage of datation errors per profile



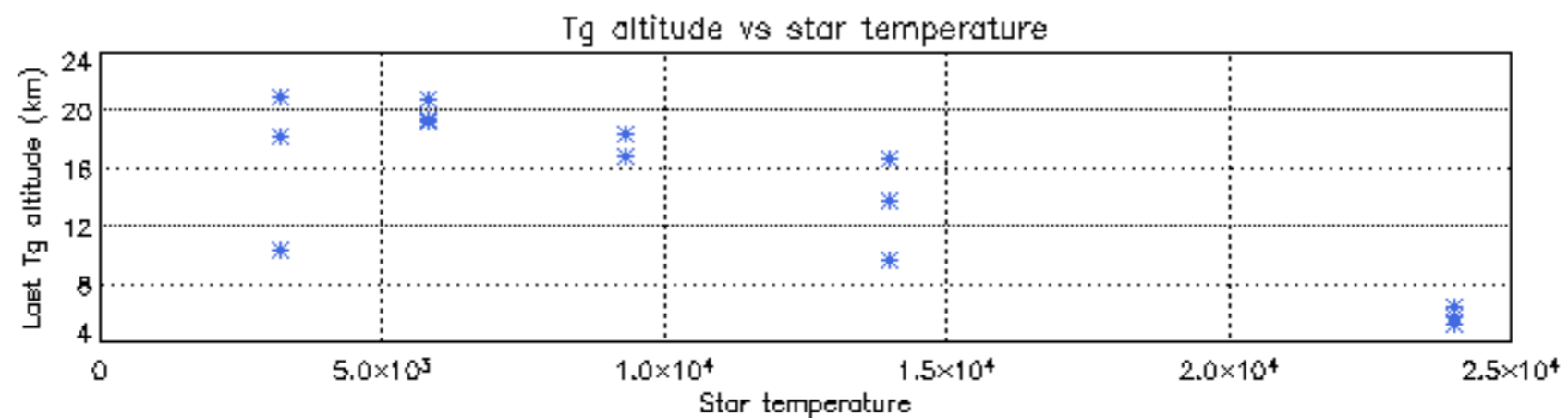
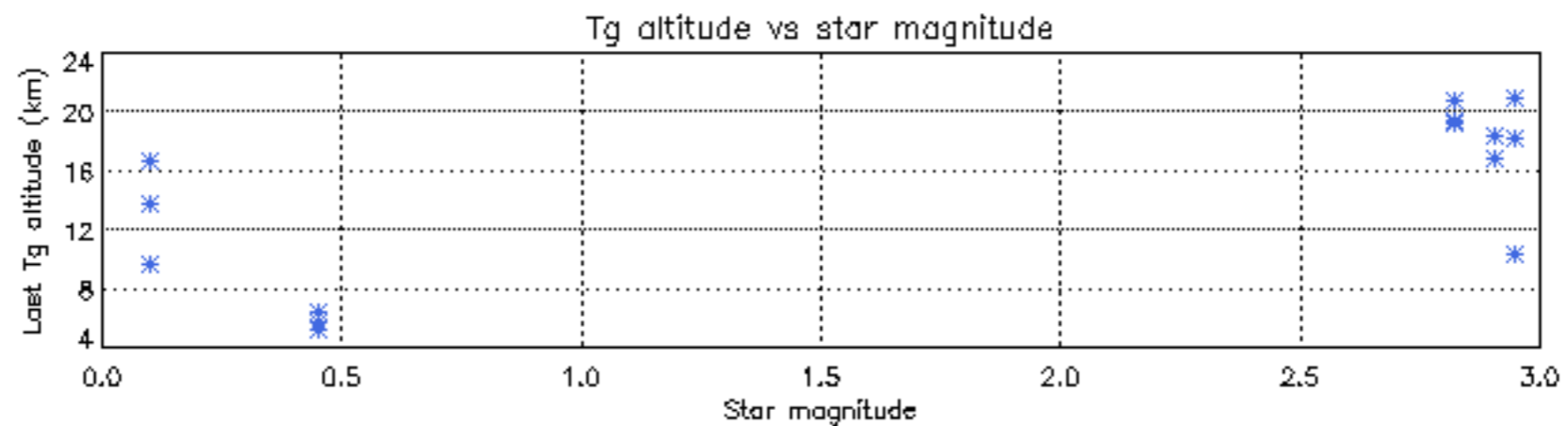
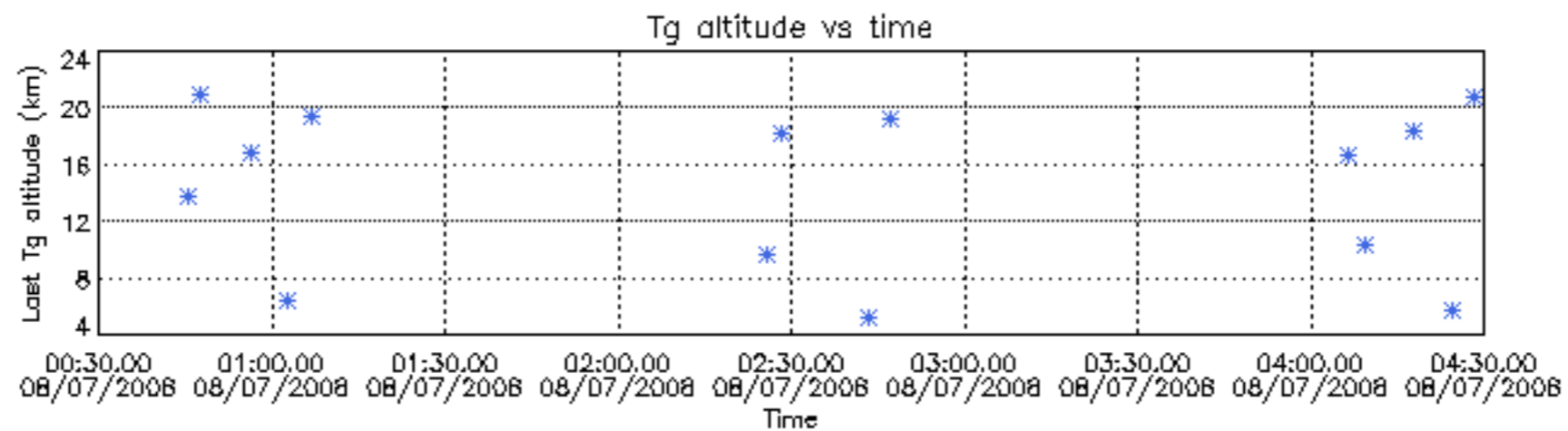
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

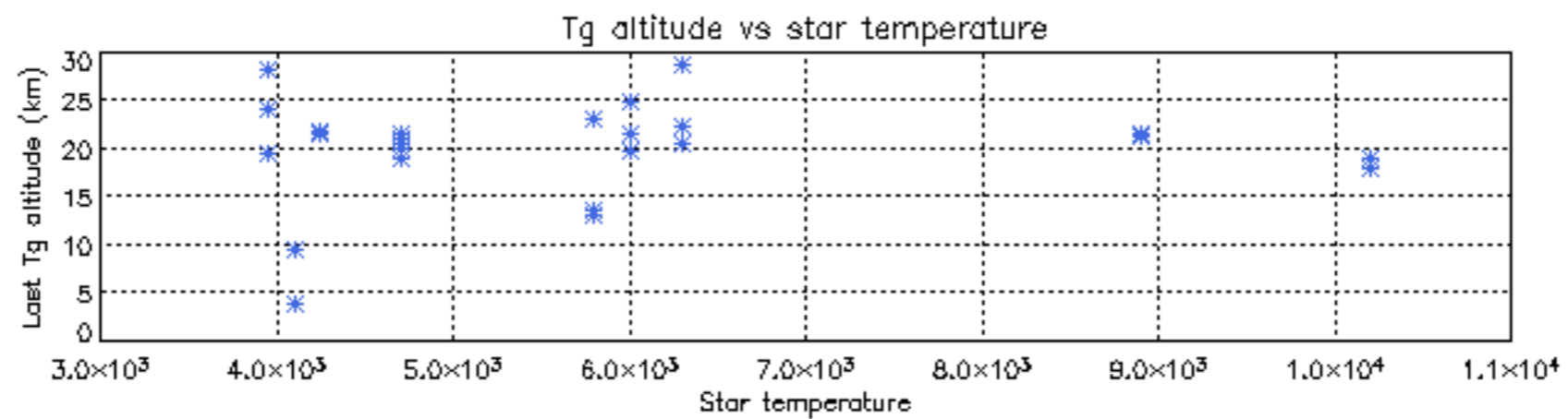
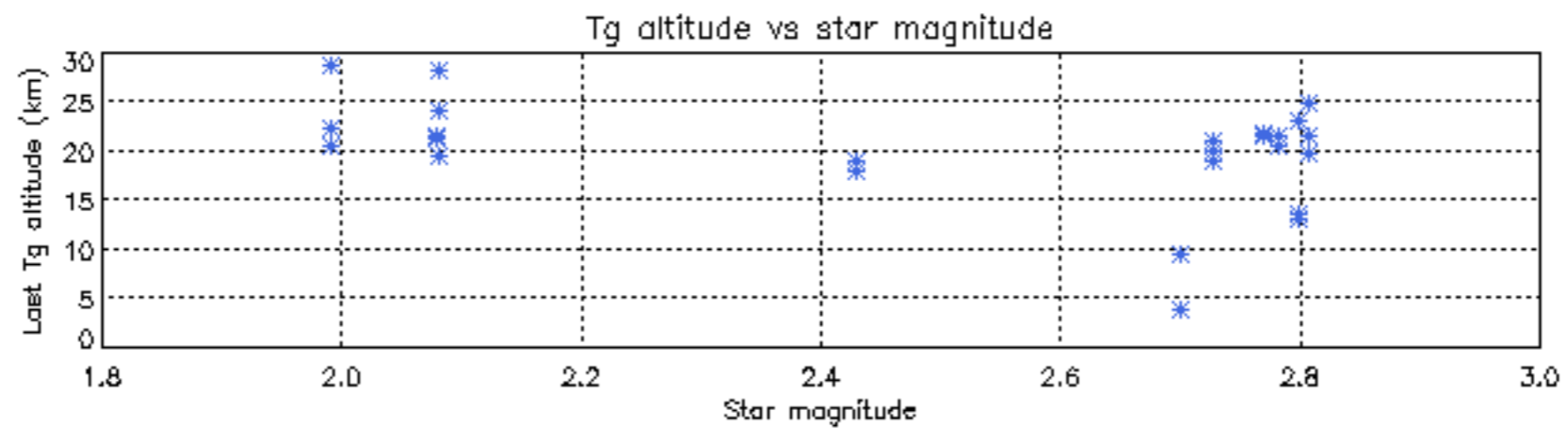
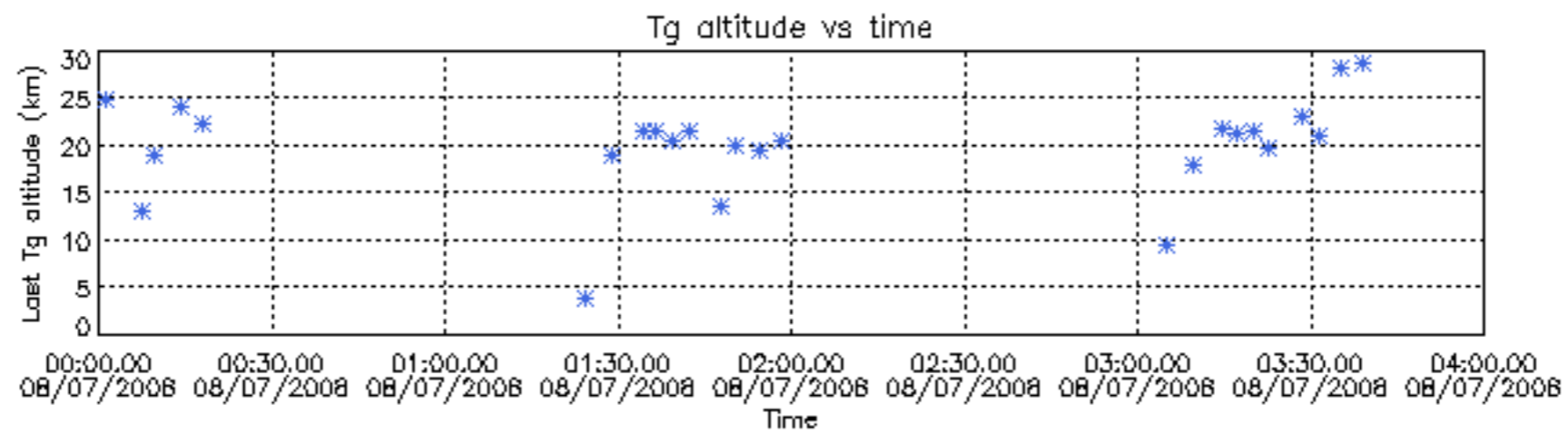


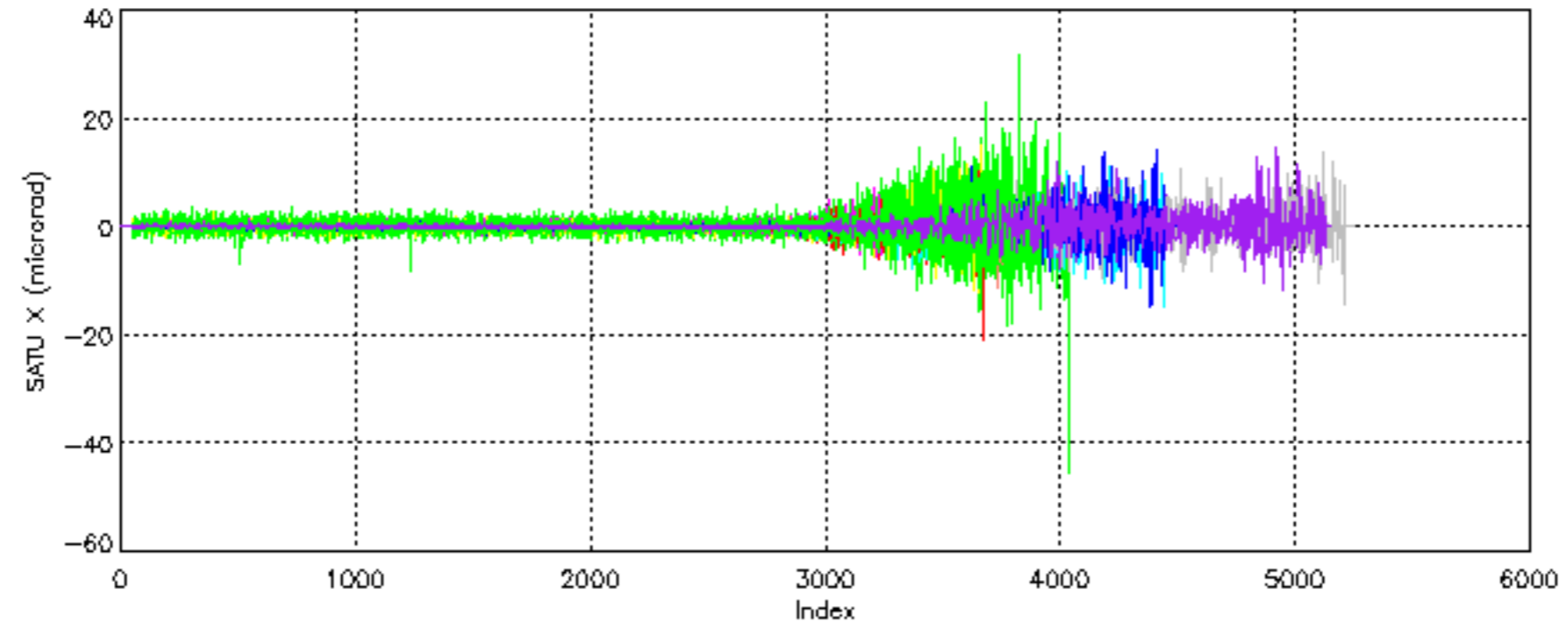
Tangent altitude at which the star is lost

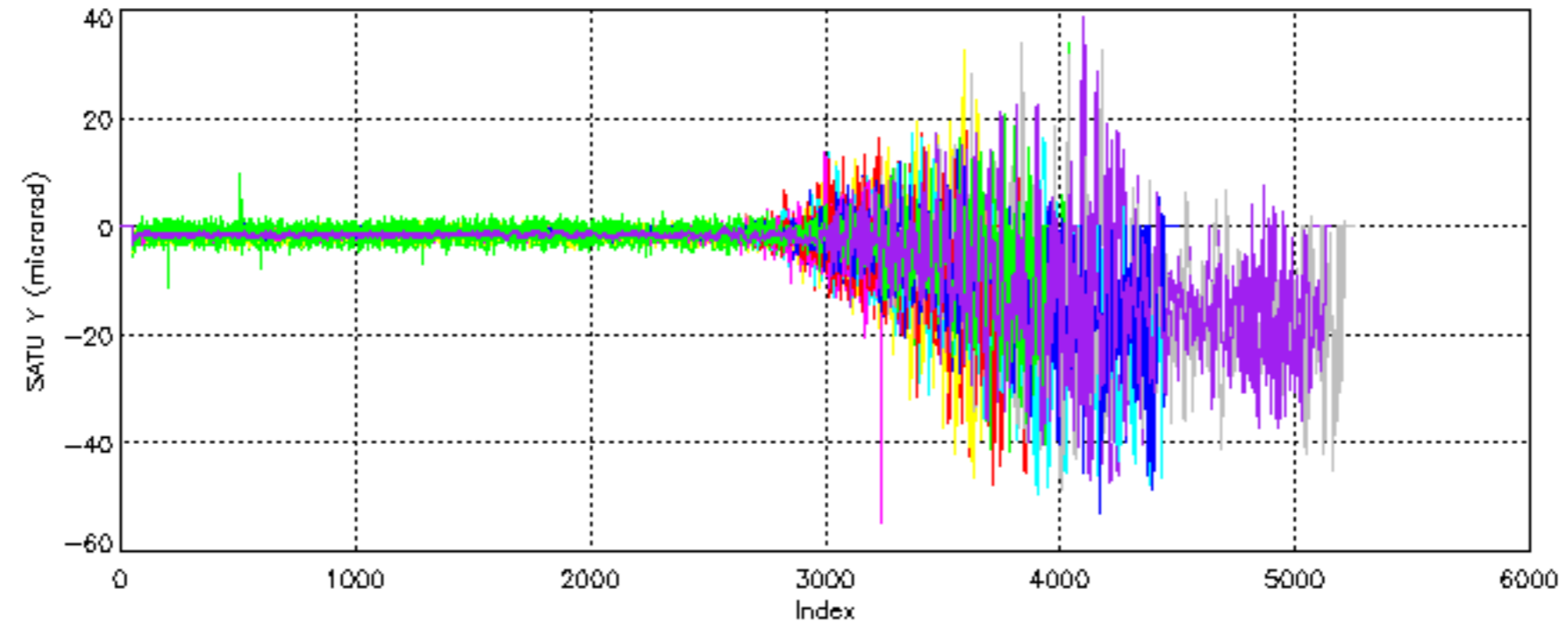


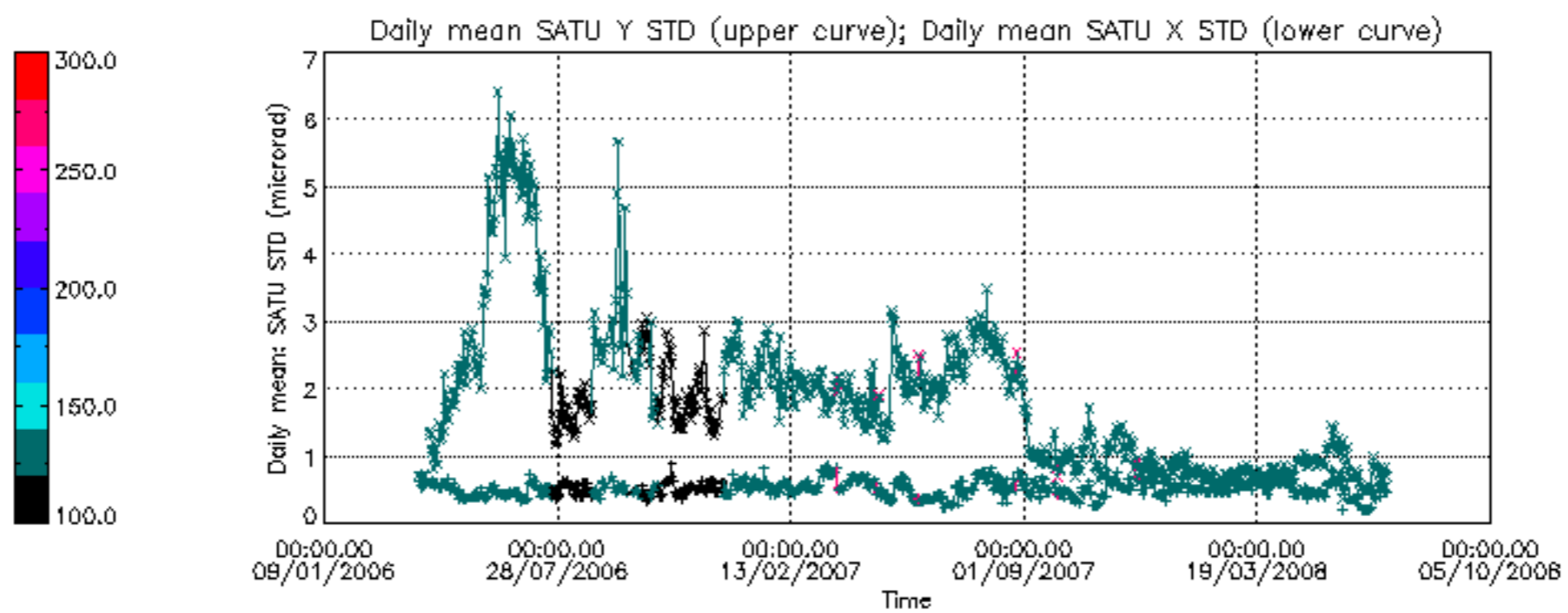


Tangent altitude at which the star is lost











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 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134  
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9; 2463.0; 08-JUL-2008 20:08:15; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33234
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 7; 794.9; 26-JUL-2008 01:48:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;33481  
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 18; 2715.8; 26-JUL-2008 04:00:58; Bright; 57.0; 144; 18Del Cyg ; 2.86; 11000;occ; 114; 0;33482  
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 5; 2712.8; 26-JUL-2008 20:46:54; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33492  
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12; 3122.6; 26-JUL-2008 22:34:20; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33493
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3; 2568.9; 30-JUL-2008 13:36:14; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;33545
4; 2657.7; 30-JUL-2008 13:37:43; Bright; 43.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 86; 0;33545
5; 3098.9; 30-JUL-2008 13:45:04; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;33545
6; 3441.3; 30-JUL-2008 13:50:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33545
7; 4200.7; 30-JUL-2008 14:03:26; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;33545
8; 4511.9; 30-JUL-2008 14:08:37; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33545
9; 4635.7; 30-JUL-2008 14:10:41; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33545
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12; 5019.1; 30-JUL-2008 14:17:04; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33545
13; 5165.6; 30-JUL-2008 14:19:31; Dark ; 39.5; 7; 19Bet Ori ; 0.10; 14000;occ; 79; 0;33545
14; 5297.7; 30-JUL-2008 14:21:43; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;33545
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19; 6946.8; 30-JUL-2008 14:49:12; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33545
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3; 2144.3; 30-JUL-2008 15:09:45; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33546

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13; 5019.5; 30-JUL-2008 15:57:40; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33546  
14; 5166.2; 30-JUL-2008 16:00:07; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;33546  
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6; 2656.4; 30-JUL-2008 18:39:29; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33548  
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13; 4905.2; 30-JUL-2008 19:16:58; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33548  
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15; 5166.9; 30-JUL-2008 19:21:20; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;33548  
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19; 6333.7; 30-JUL-2008 19:40:47; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33548  
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6; 714.3; 31-JUL-2008 02:30:07; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;33553
7; 914.4; 31-JUL-2008 02:33:27; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33553
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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