

# GOMOS Daily Report 25-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	27JUL2008 05:31:53
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	35
Nb of prods with errors	1

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

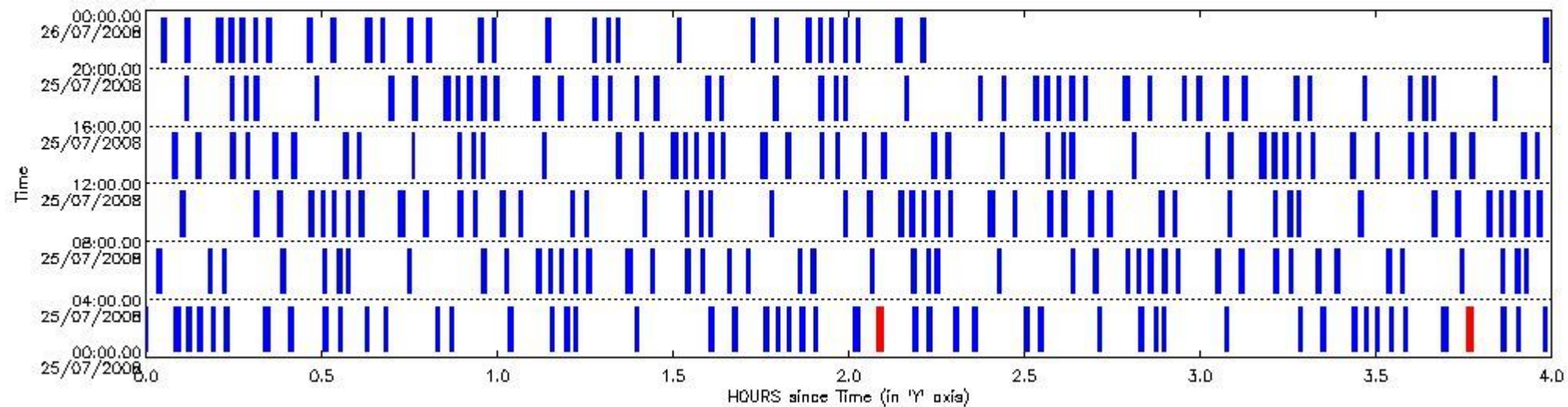
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

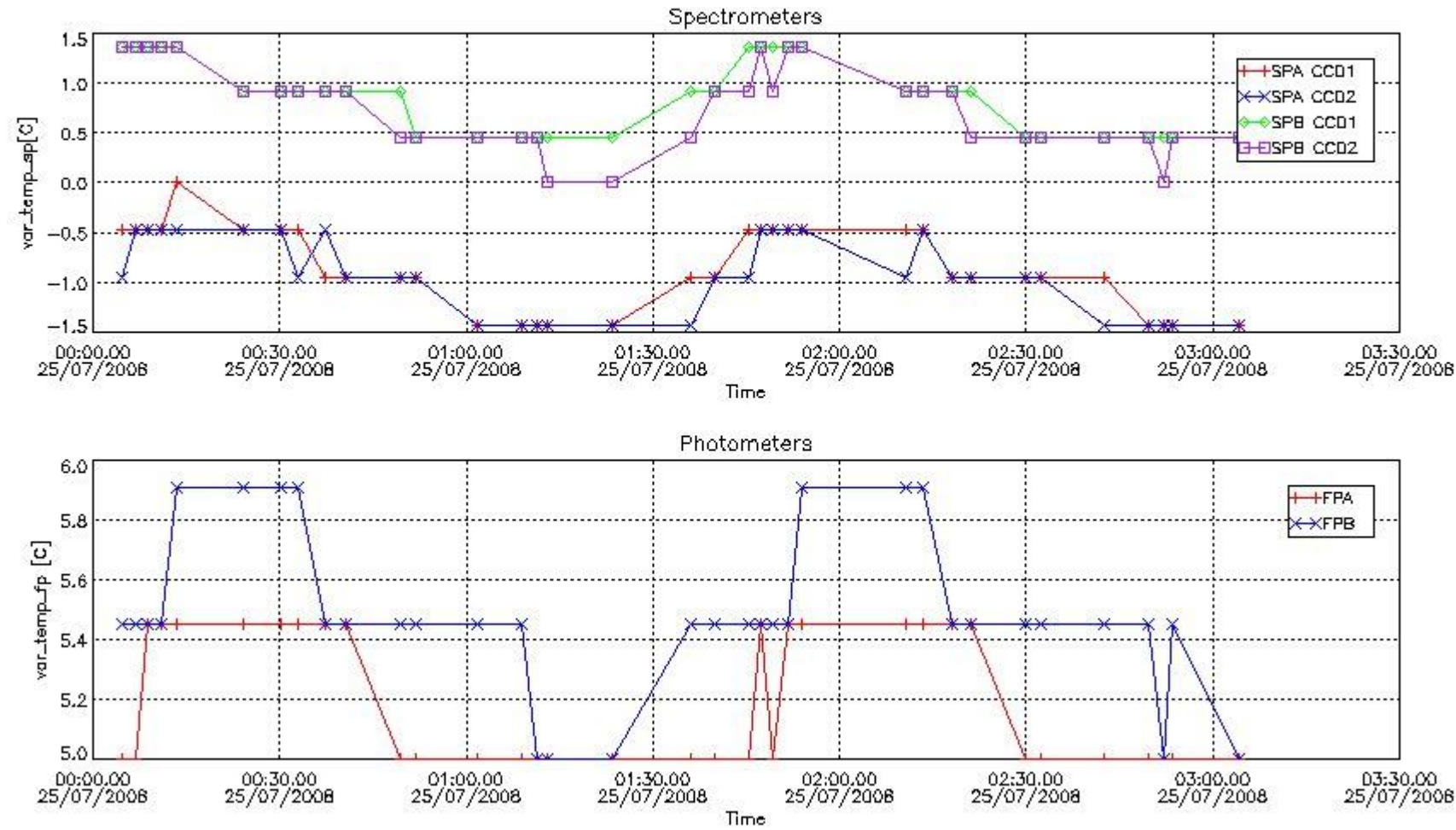
UTC start time	Star name	Star ID	Orbit
25-JUL-2008 02:04:49	The1Eri	157	33466
25-JUL-2008 03:45:26	The1Eri	157	33467

### 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_1PNPDE20080725_000447_000000552070_00345_33465_9504.N1	25-JUL-2008 00:04:47	Dark	55.000	13	87Alp Tau	0.86700	3800.0	110	33465	No
2	GOM_TRA_1PNPDE20080725_000651_000000422070_00345_33465_9212.N1	25-JUL-2008 00:06:51	Dark	42.000	27	24Gam Ori	1.6360	26000.	84	33465	No
3	GOM_TRA_1PNPDE20080725_000847_000000402070_00345_33465_9213.N1	25-JUL-2008 00:08:47	Dark	39.500	30	46Eps Ori	1.6940	30000.	79	33465	No
4	GOM_TRA_1PNPDE20080725_001106_000000382070_00345_33465_9507.N1	25-JUL-2008 00:11:06	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	33465	No
5	GOM_TRA_1PNPDE20080725_001324_000000372070_00345_33465_9485.N1	25-JUL-2008 00:13:24	Dark	37.000	101	11Alp Lep	2.5820	7000.0	74	33465	Yes
6	GOM_TRA_1PNPDE20080725_002416_000000442070_00345_33465_9486.N1	25-JUL-2008 00:24:16	Dark	44.000	157	The1Eri	2.9060	9300.0	88	33465	No
7	GOM_TRA_1PNPDE20080725_003009_000000502070_00346_33466_9487.N1	25-JUL-2008 00:30:09	Dark	49.500	9	Alp Eri	0.45300	24000.	99	33466	No
8	GOM_TRA_1PNPDE20080725_003248_000000382070_00346_33466_9324.N1	25-JUL-2008 00:32:48	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	33466	No
9	GOM_TRA_1PNPDE20080725_003721_000000412070_00346_33466_9489.N1	25-JUL-2008 00:37:21	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	33466	No

10	GOM_TRA_1PNPDE20080725_004032_000000402070_00346_33466_9490.N1	25-JUL-2008 00:40:32	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	33466	No
11	GOM_TRA_1PNPDE20080725_004923_000000372070_00346_33466_9491.N1	25-JUL-2008 00:49:23	Bright	36.500	103	38Zet Sgr	2.6000	9700.0	73	33466	No
12	GOM_TRA_1PNPDE20080725_005147_000000382070_00346_33466_9492.N1	25-JUL-2008 00:51:47	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	33466	No
13	GOM_TRA_1PNPDE20080725_010151_000000362070_00346_33466_9493.N1	25-JUL-2008 01:01:51	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33466	No
14	GOM_TRA_1PNPDE20080725_010855_000000402070_00346_33466_9330.N1	25-JUL-2008 01:08:55	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	33466	No
15	GOM_TRA_1PNPDE20080725_011128_000000392070_00346_33466_9331.N1	25-JUL-2008 01:11:28	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	33466	No
16	GOM_TRA_1PNPDE20080725_011257_000000352070_00346_33466_9332.N1	25-JUL-2008 01:12:57	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	33466	No
17	GOM_TRA_1PNPDE20080725_012329_000000332070_00346_33466_9333.N1	25-JUL-2008 01:23:29	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33466	No
18	GOM_TRA_1PNPDE20080725_013605_000000402070_00346_33466_9334.N1	25-JUL-2008 01:36:05	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	33466	No
19	GOM_TRA_1PNPDE20080725_014001_000000512070_00346_33466_9335.N1	25-JUL-2008 01:40:01	Bright	51.000	114	3Iot Aur	2.6930	4600.0	102	33466	No
20	GOM_TRA_1PNPDE20080725_014523_000000442070_00346_33466_9336.N1	25-JUL-2008 01:45:23	Dark	44.000	13	87Alp Tau	0.86700	3800.0	88	33466	No
21	GOM_TRA_1PNPDE20080725_014728_000000392070_00346_33466_9337.N1	25-JUL-2008 01:47:28	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	33466	No
22	GOM_TRA_1PNPDE20080725_014923_000000382070_00346_33466_9338.N1	25-JUL-2008 01:49:23	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	33466	No
23	GOM_TRA_1PNPDE20080725_015142_000000422070_00346_33466_9339.N1	25-JUL-2008 01:51:42	Dark	42.000	7	19Bet Ori	0.10000	14000.	84	33466	No
24	GOM_TRA_1PNPDE20080725_015400_000000382070_00346_33466_9458.N1	25-JUL-2008 01:54:00	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	33466	No
25	GOM_TRA_1PNPDE20080725_021045_000000512070_00347_33467_9459.N1	25-JUL-2008 02:10:45	Dark	51.000	9	Alp Eri	0.45300	24000.	102	33467	No
26	GOM_TRA_1PNPDE20080725_021324_000000382070_00347_33467_9460.N1	25-JUL-2008 02:13:24	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33467	No
27	GOM_TRA_1PNPDE20080725_021758_000000402070_00347_33467_9461.N1	25-JUL-2008 02:17:58	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	33467	No
28	GOM_TRA_1PNPDE20080725_022109_000000402070_00347_33467_9462.N1	25-JUL-2008 02:21:09	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	33467	No
29	GOM_TRA_1PNPDE20080725_022959_000000412070_00347_33467_9463.N1	25-JUL-2008 02:29:59	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	33467	No
30	GOM_TRA_1PNPDE20080725_023223_000000372070_00347_33467_9464.N1	25-JUL-2008 02:32:23	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33467	No
31	GOM_TRA_1PNPDE20080725_024227_000000362070_00347_33467_9465.N1	25-JUL-2008 02:42:27	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	33467	No
32	GOM_TRA_1PNPDE20080725_024931_000000402070_00347_33467_9466.N1	25-JUL-2008 02:49:31	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	33467	No
33	GOM_TRA_1PNPDE20080725_025203_000000382070_00347_33467_9467.N1	25-JUL-2008 02:52:03	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	33467	No
34	GOM_TRA_1PNPDE20080725_025333_000000362070_00347_33467_9468.N1	25-JUL-2008 02:53:33	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	33467	No
35	GOM_TRA_1PNPDE20080725_030405_000000332070_00347_33467_9469.N1	25-JUL-2008 03:04:05	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33467	No

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



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

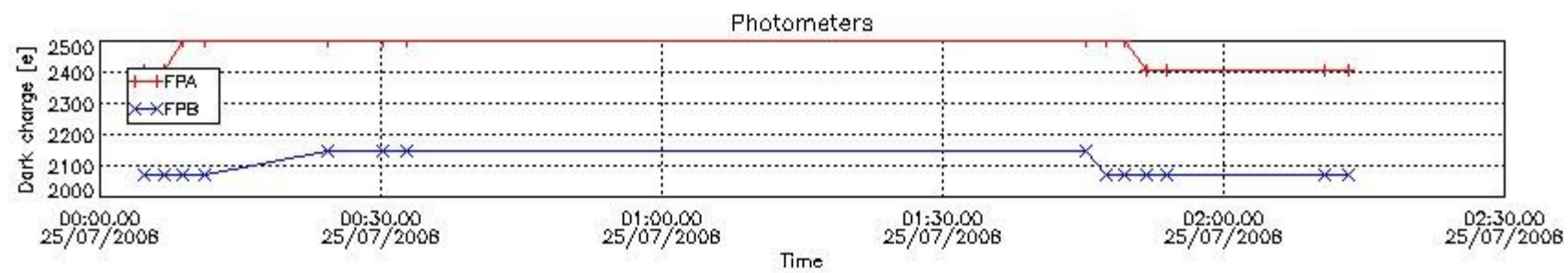
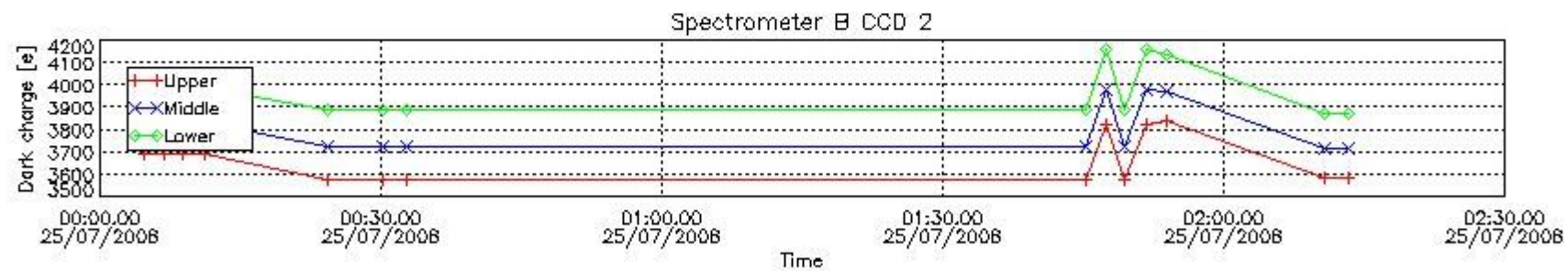
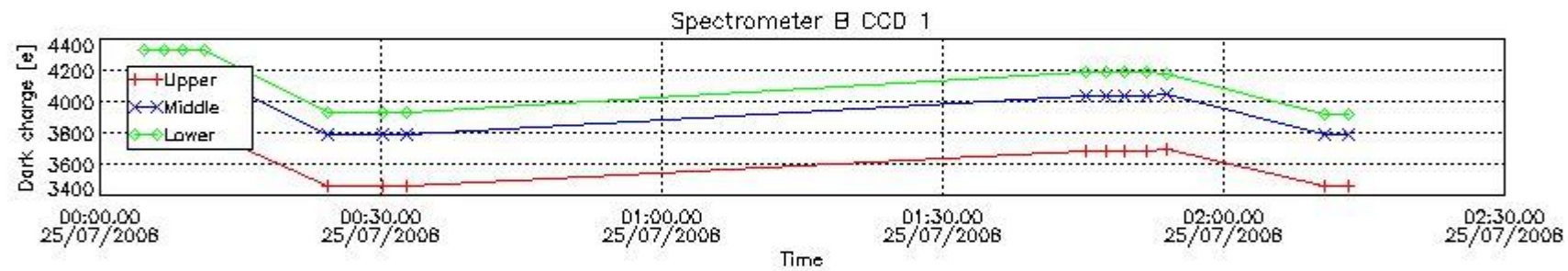
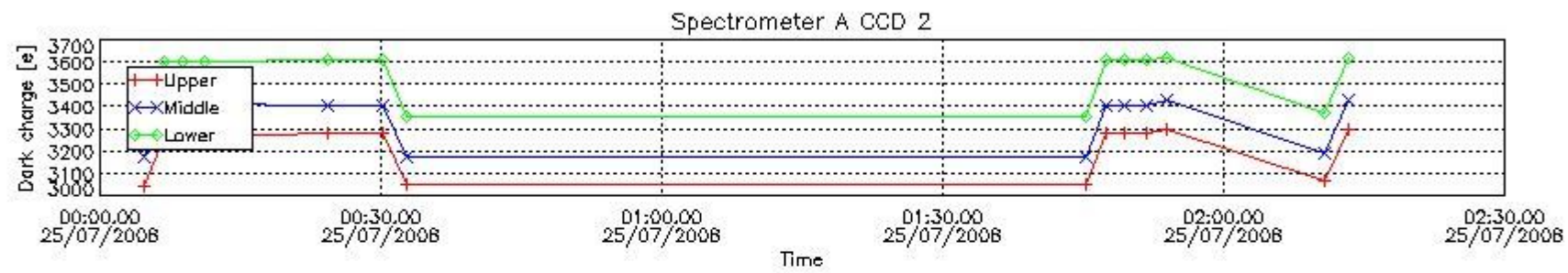
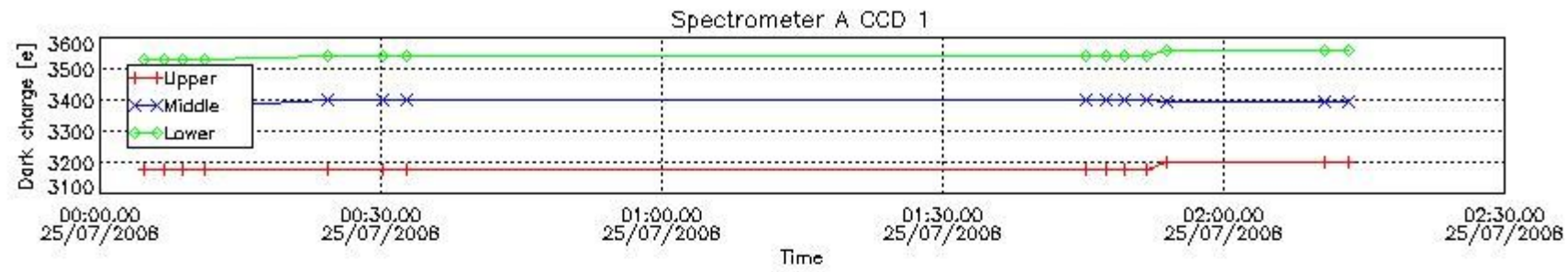
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





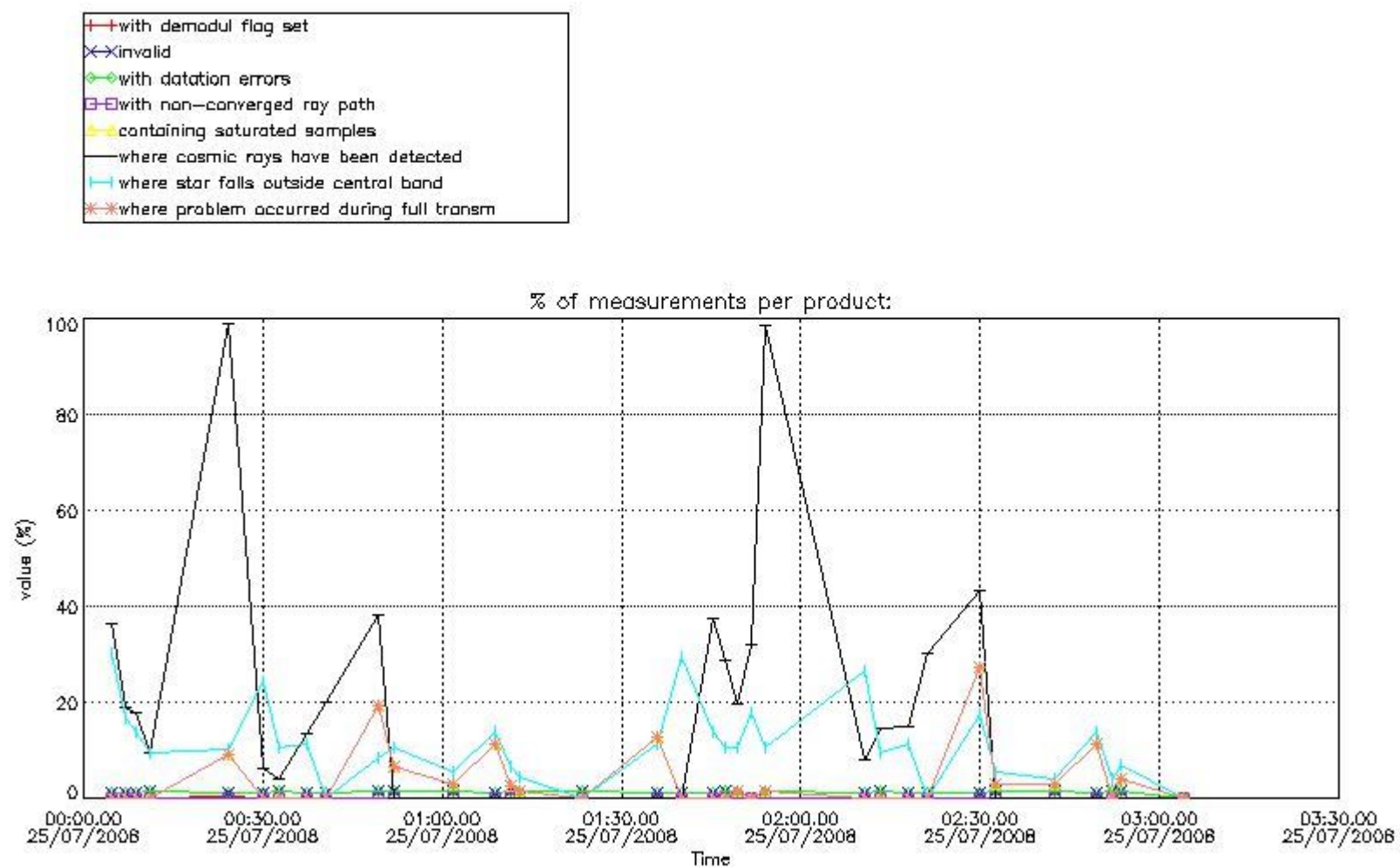
## 5. Demodulation flag and quality information monitoring

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.

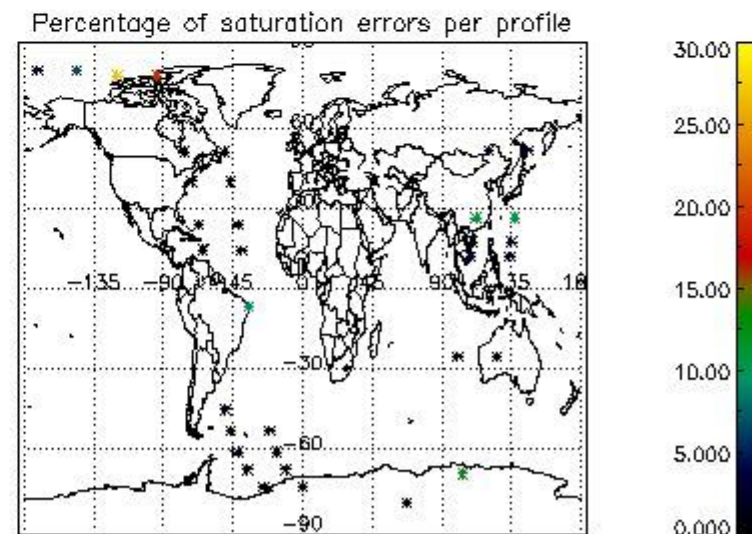
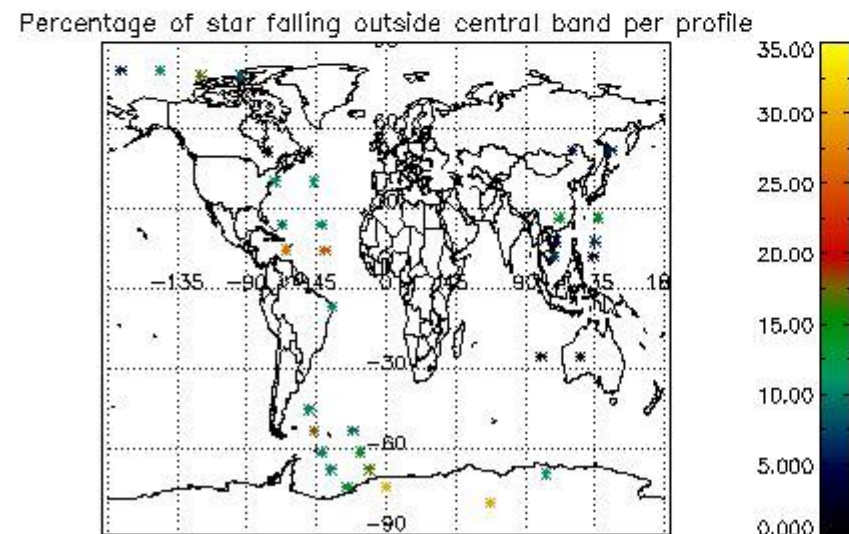
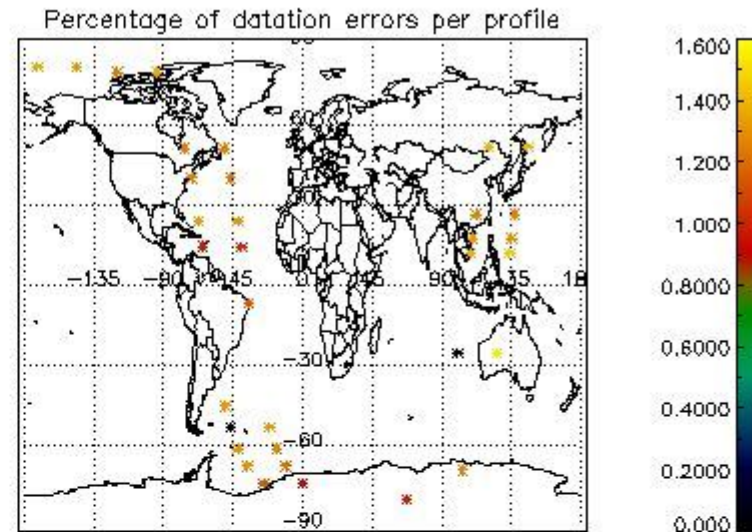
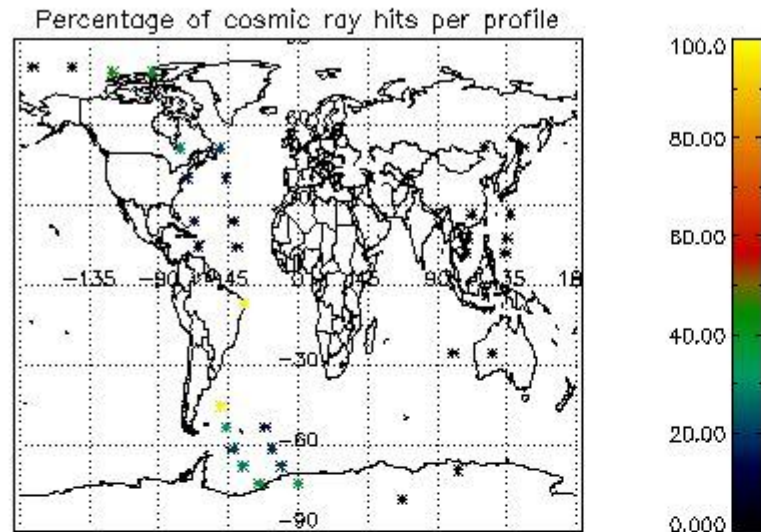
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.5882 %
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)

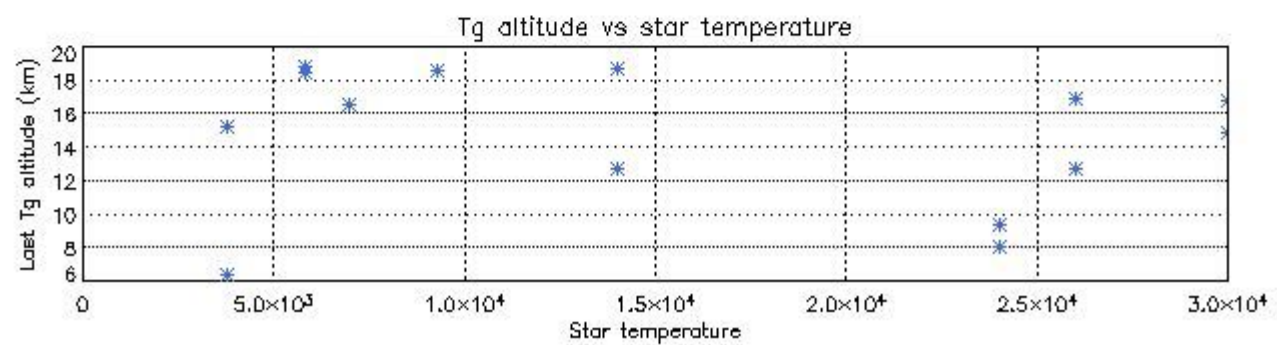
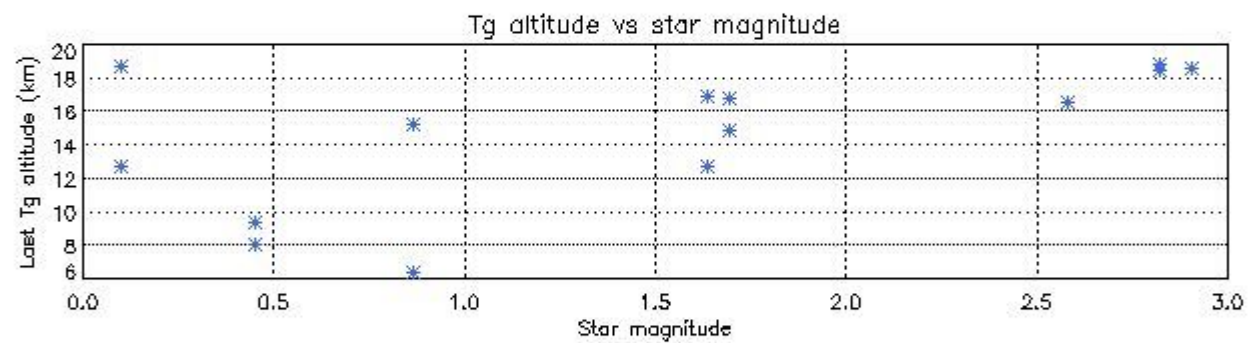
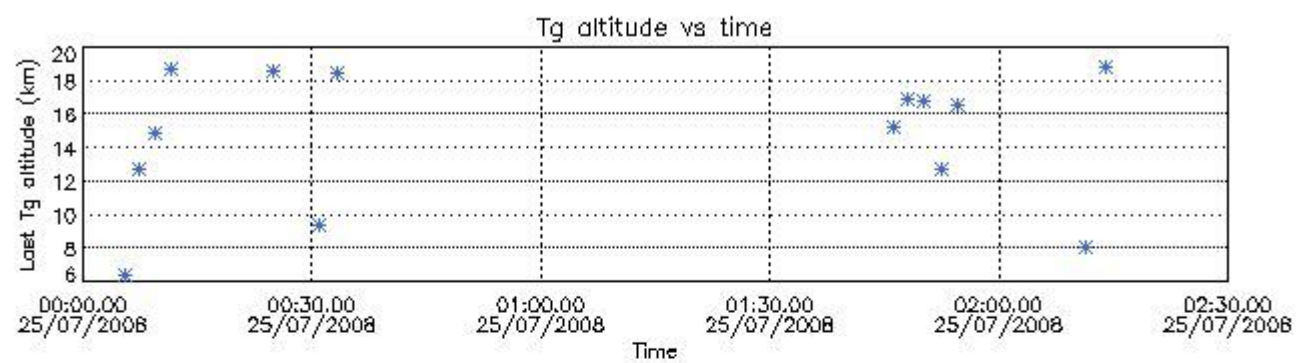
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.563	19.907	NaN
St. deviation:	4.1521	5.4333	NaN
Maximum:	18.857	28.779	NaN
Minimum:	6.3857	7.3597	NaN
Number of data:	14.000	16.000	NaN

### 6.2 Plot for DARK limb products



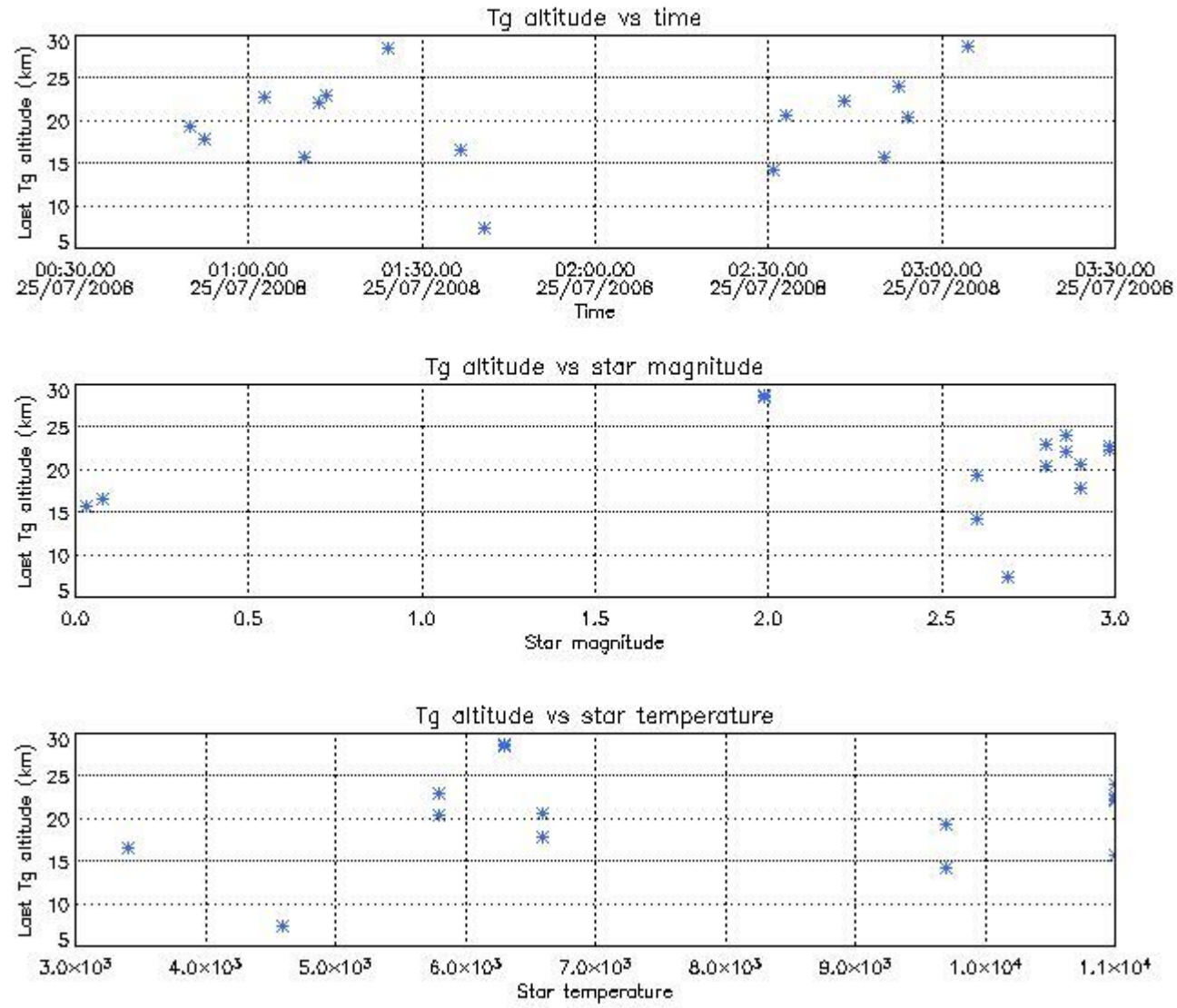
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

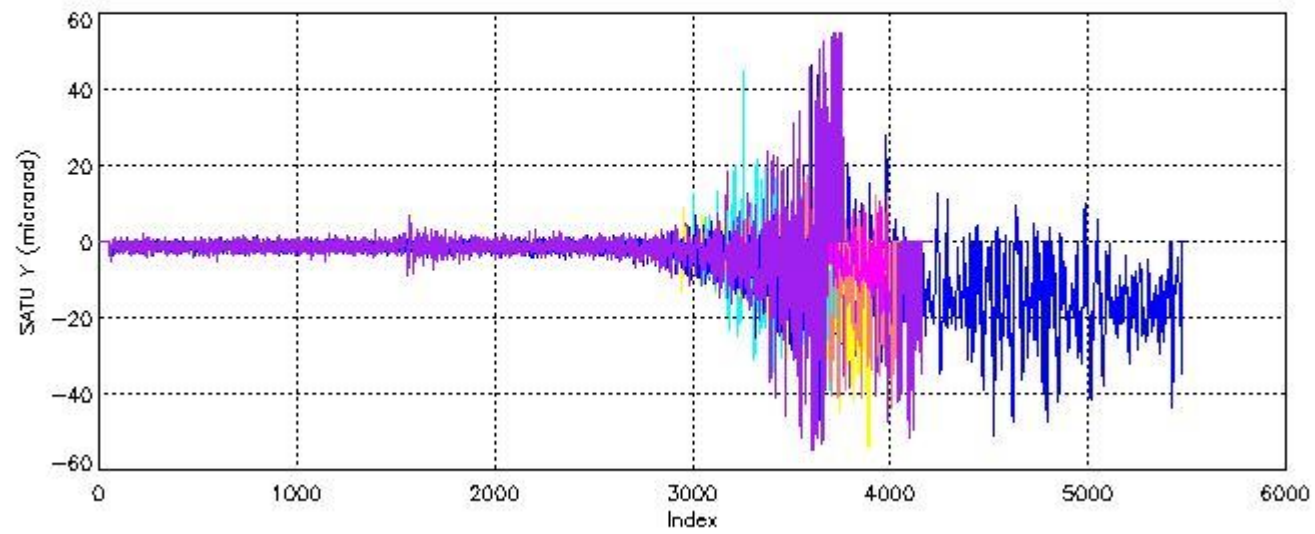
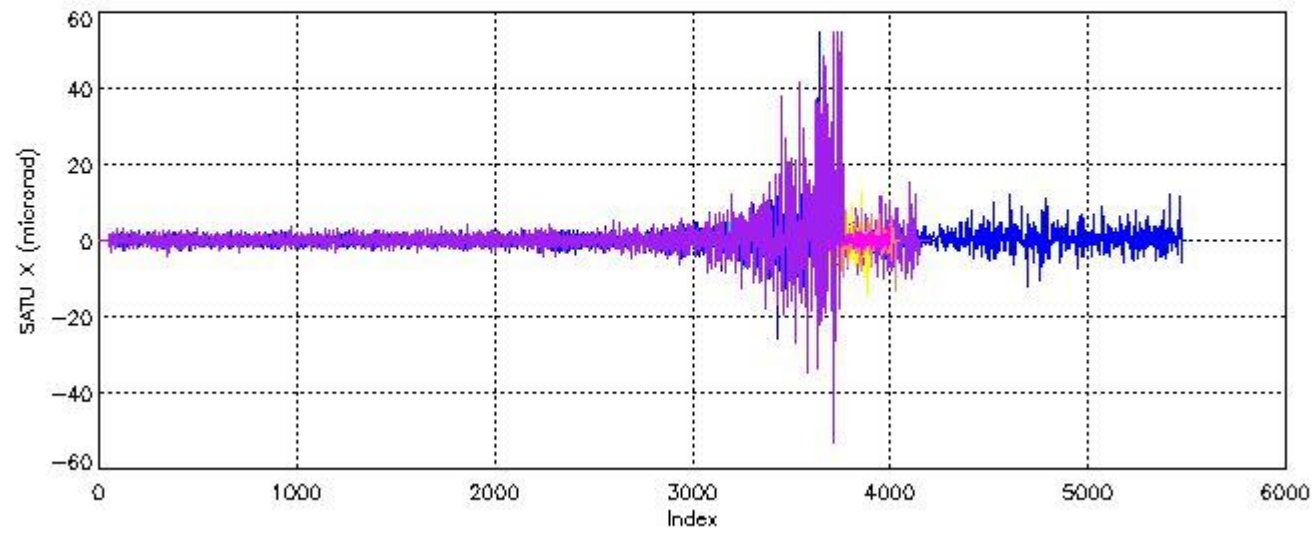


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.043227	-1.3711	0.096569	-1.3936
St. deviation:	0.44092	0.59643	0.80934	0.92313
Maximum:	21.400	5.7000	5.8000	4.1000
Minimum:	-5.8000	-27.800	-5.1000	-6.9000

Number of data:	12650.	12650.	13250.	13250.
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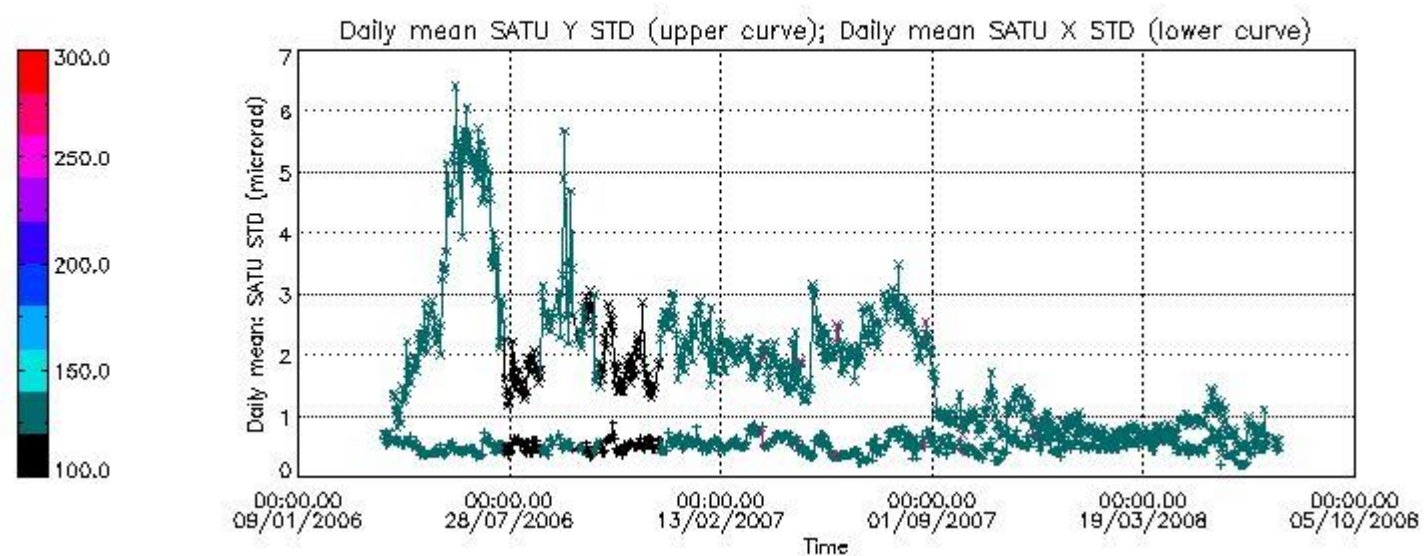
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

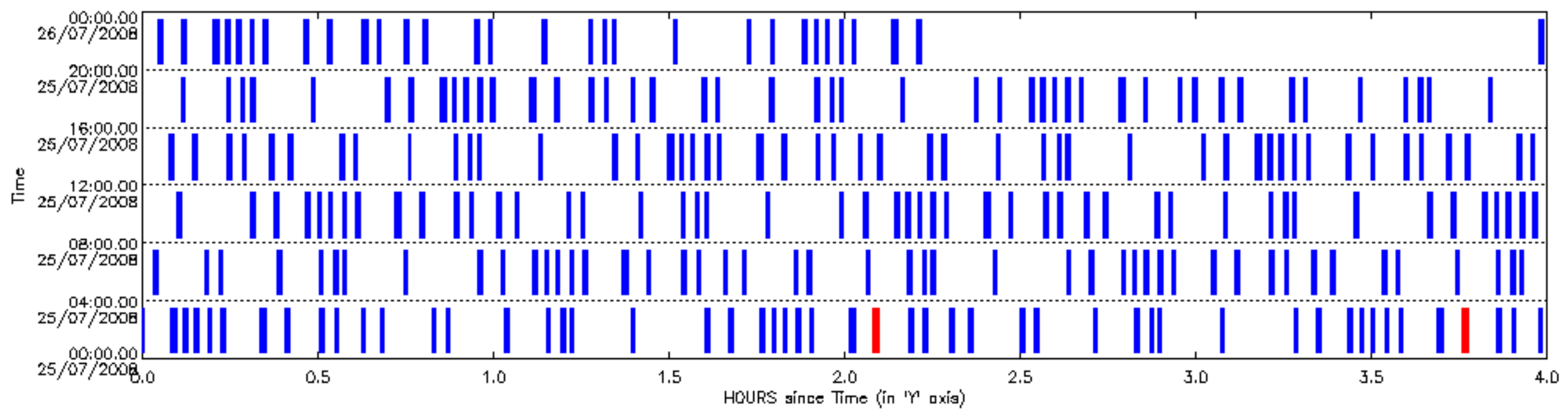
Lower curve: STD of SATU X axis



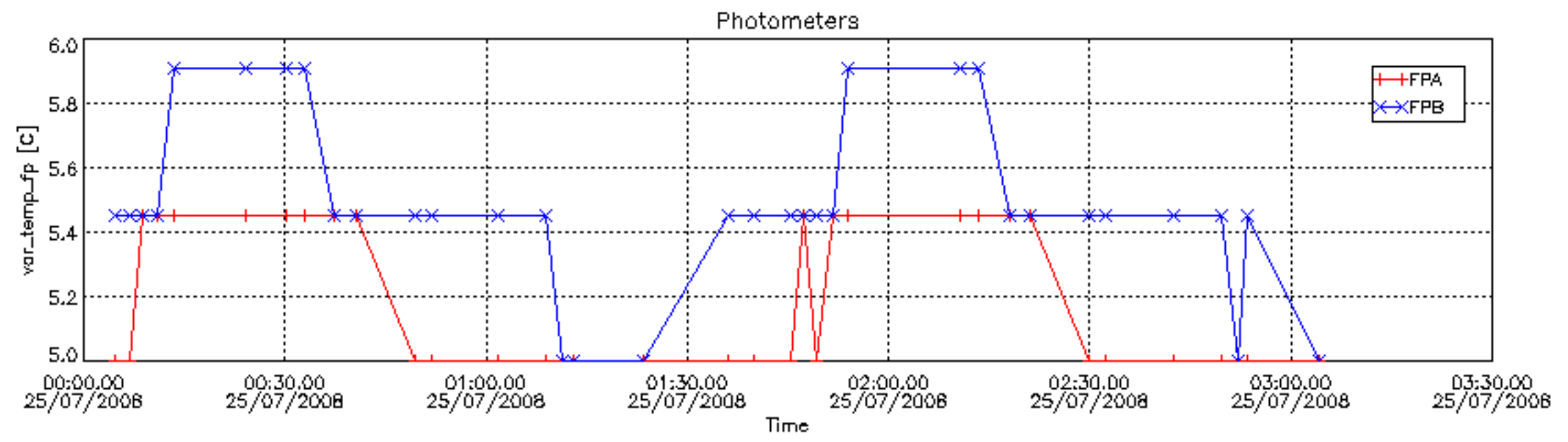
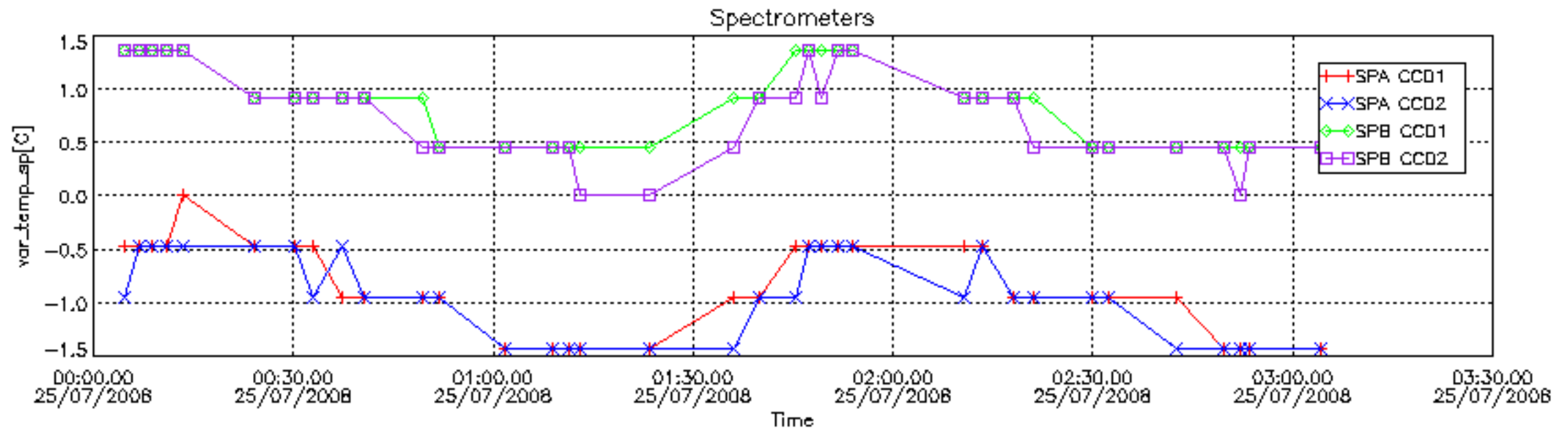
### 8. Auxiliary Data Files used for the production reported in section 2.4

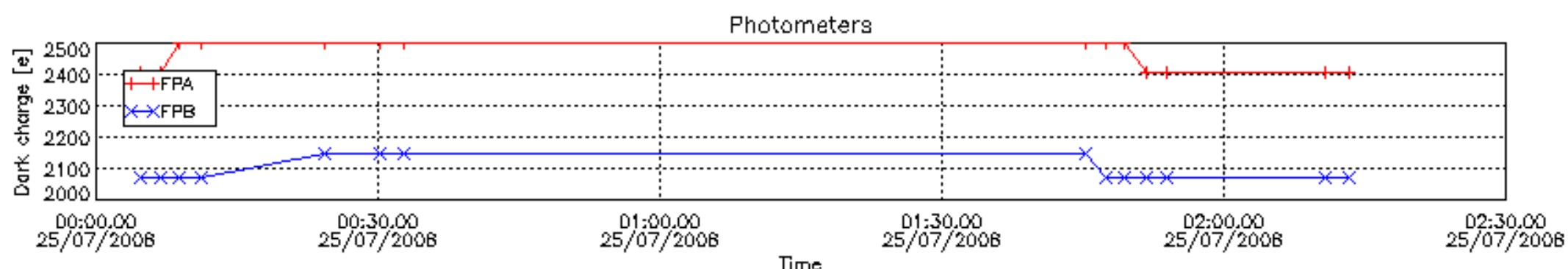
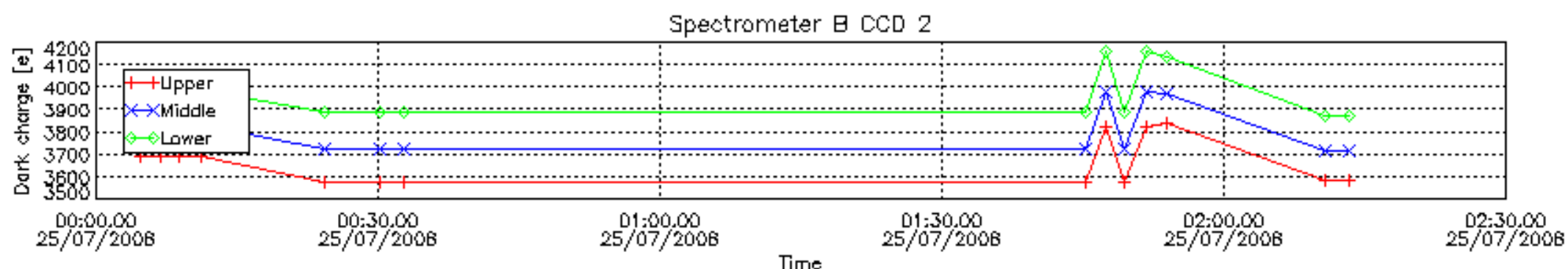
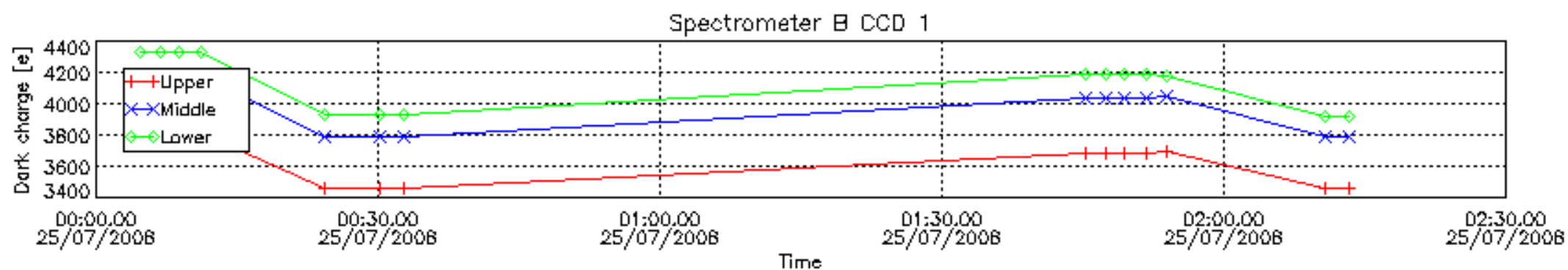
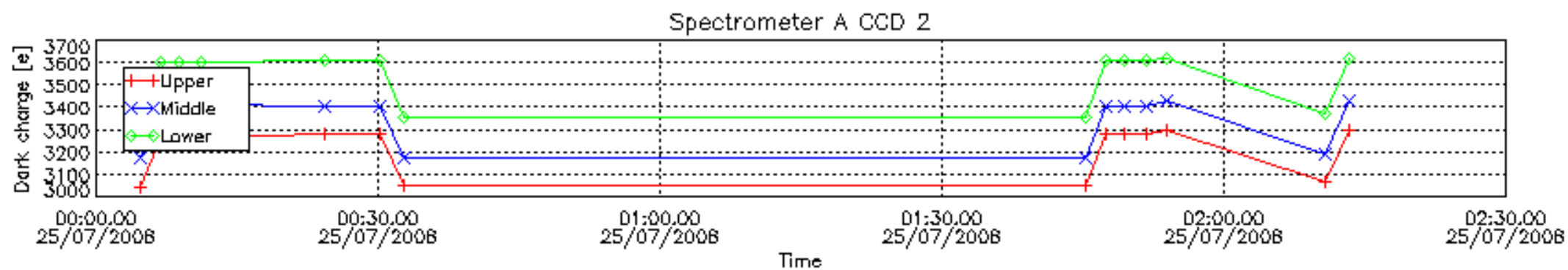
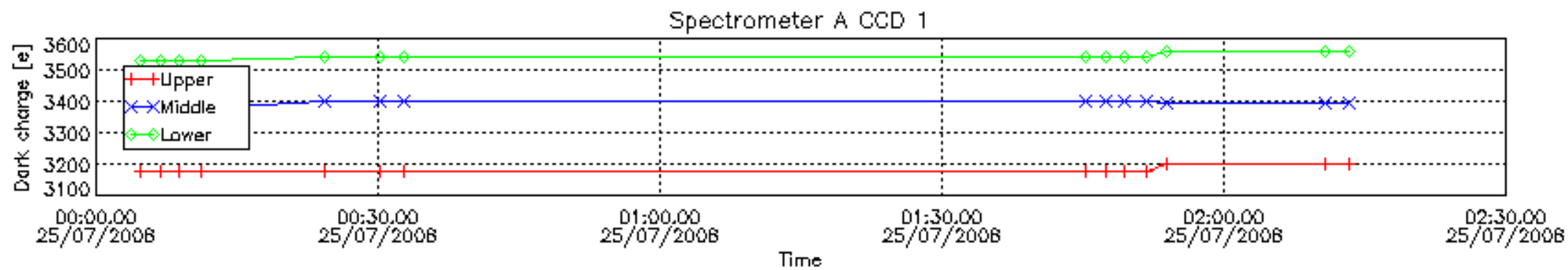
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

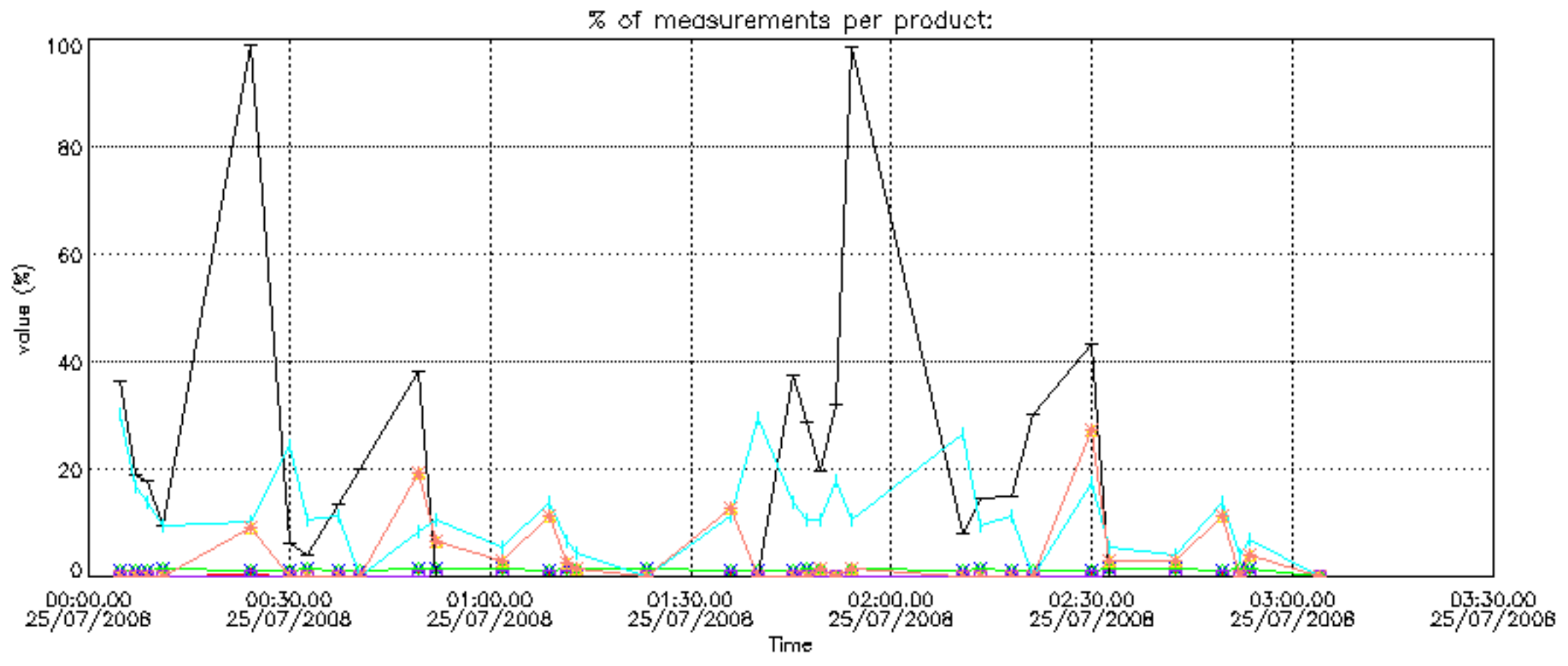
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-JUL-2008 00:04:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	25-JUL-2008 00:04:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-JUL-2008 00:04:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JUL-2008 00:04:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-JUL-2008 00:04:47
ECMWF_FILE	AUX_ECF_AXNECM20080724_072114_20080724_210000_20080725_090000	1	25-JUL-2008 00:04:47
OPTIONAL_ECMWF_FILE	MISSING	1	25-JUL-2008 00:04:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_223319_000057382070_00344_33464_6017.N1	1	25-JUL-2008 00:04:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_204703_000060572070_00343_33463_6016.N1	2	25-JUL-2008 00:06:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_223319_000057382070_00344_33464_6017.N1	4	25-JUL-2008 00:11:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080725_000857_000057382070_00345_33465_6018.N1	5	25-JUL-2008 00:13:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_223319_000057382070_00344_33464_6017.N1	8	25-JUL-2008 00:32:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080725_000857_000057382070_00345_33465_6018.N1	9	25-JUL-2008 00:37:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_223319_000057382070_00344_33464_6017.N1	14	25-JUL-2008 01:08:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080725_000857_000057382070_00345_33465_6018.N1	24	25-JUL-2008 01:54:00



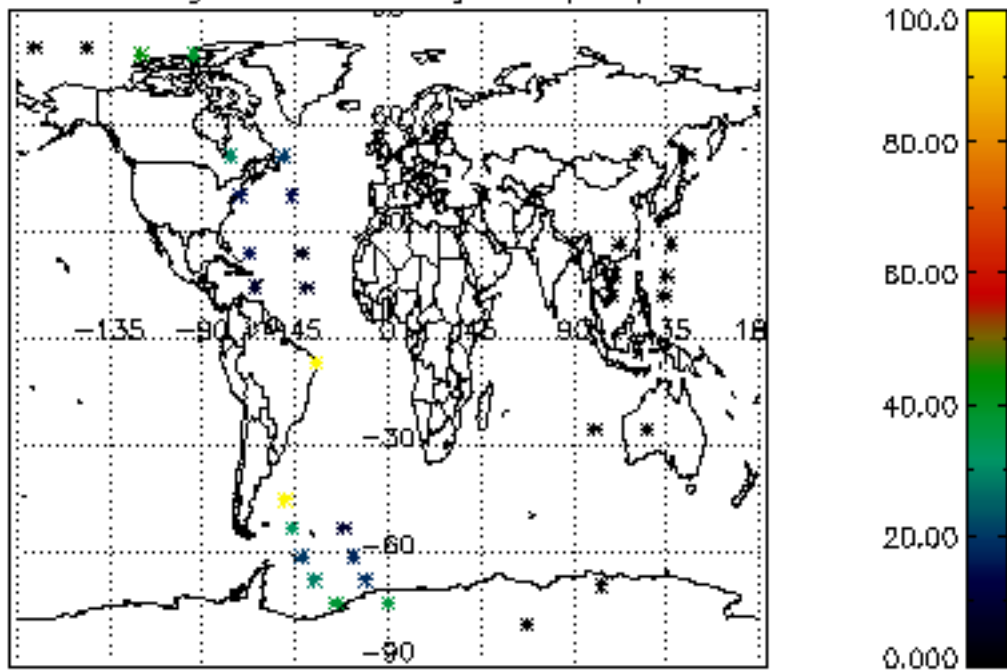




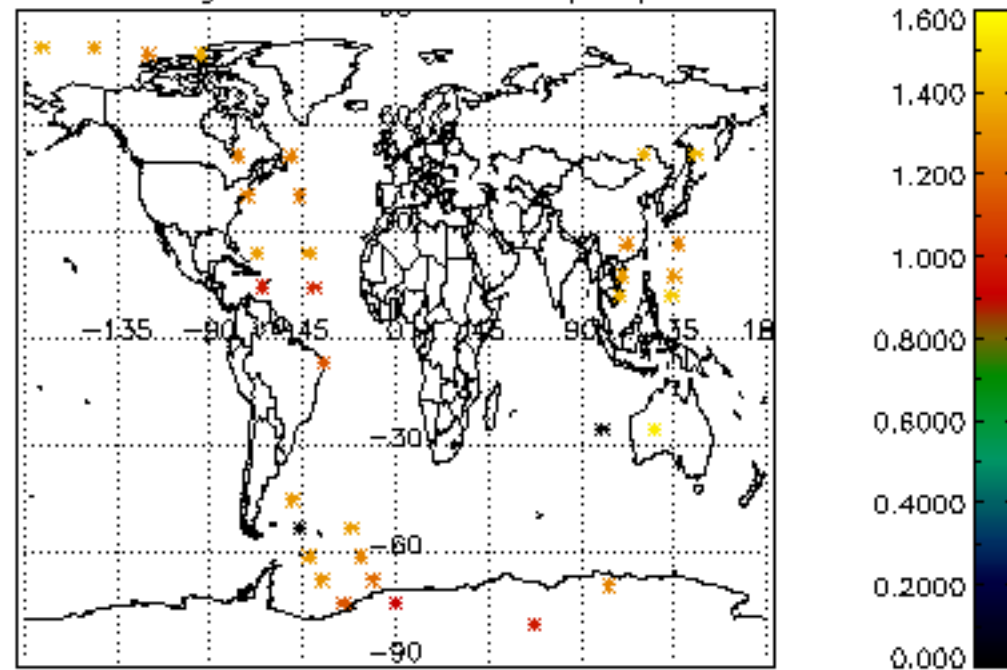




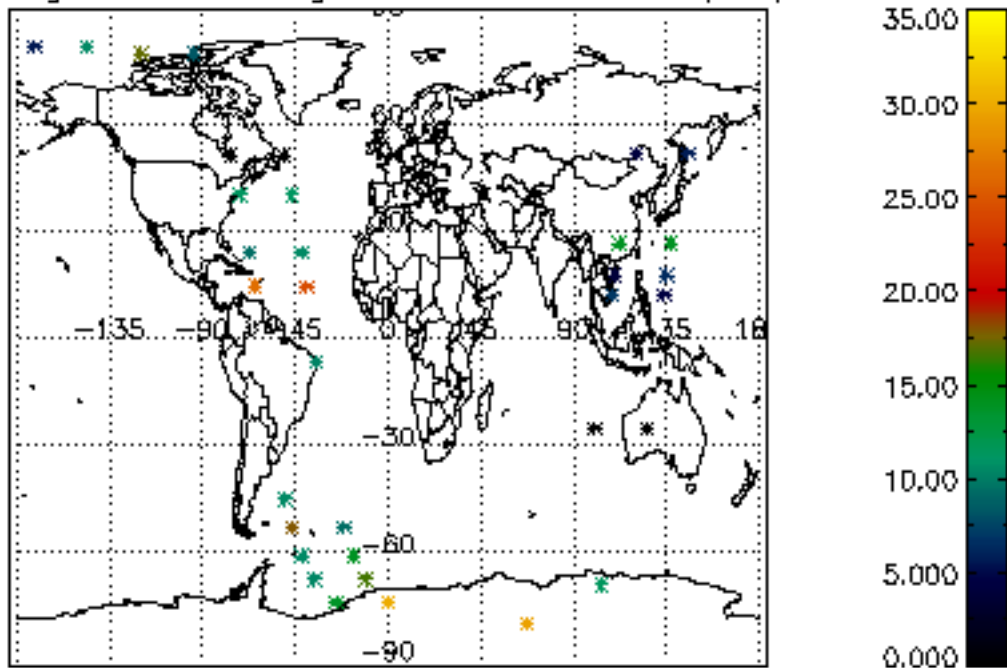
Percentage of cosmic ray hits per profile



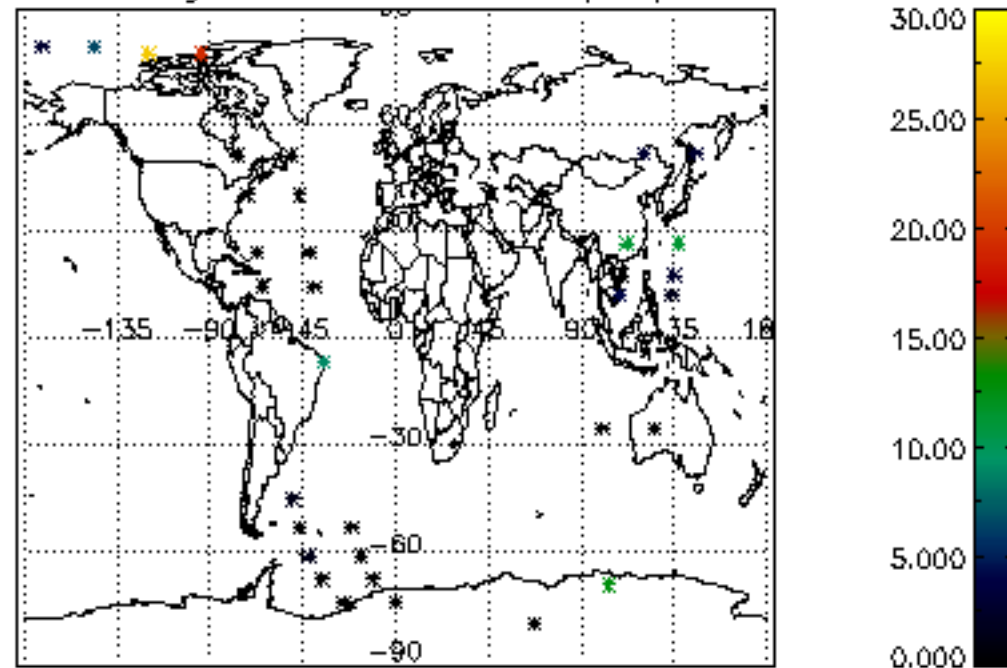
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

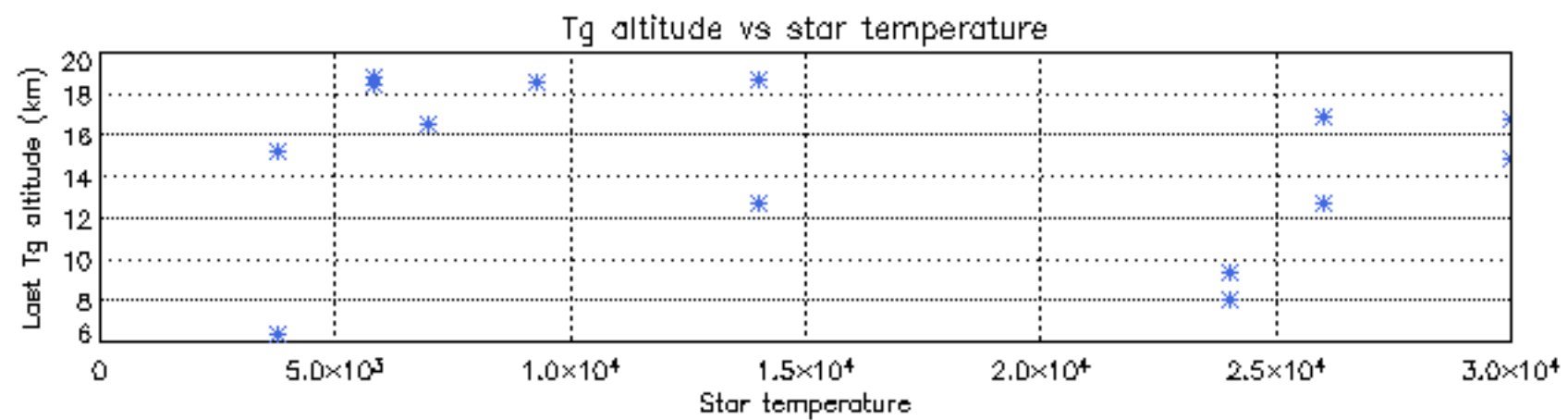
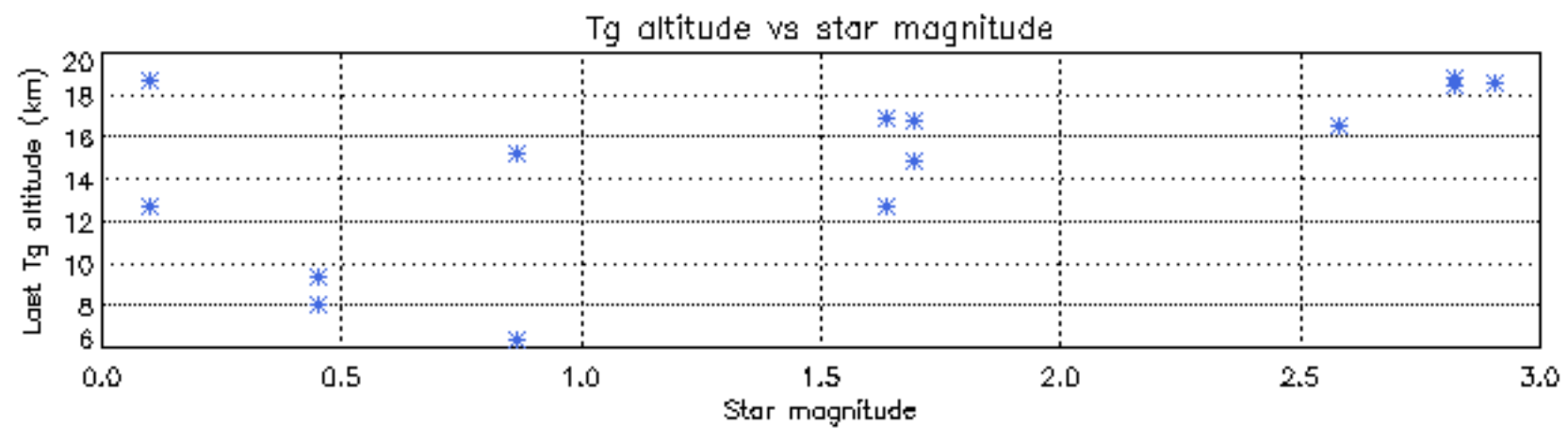
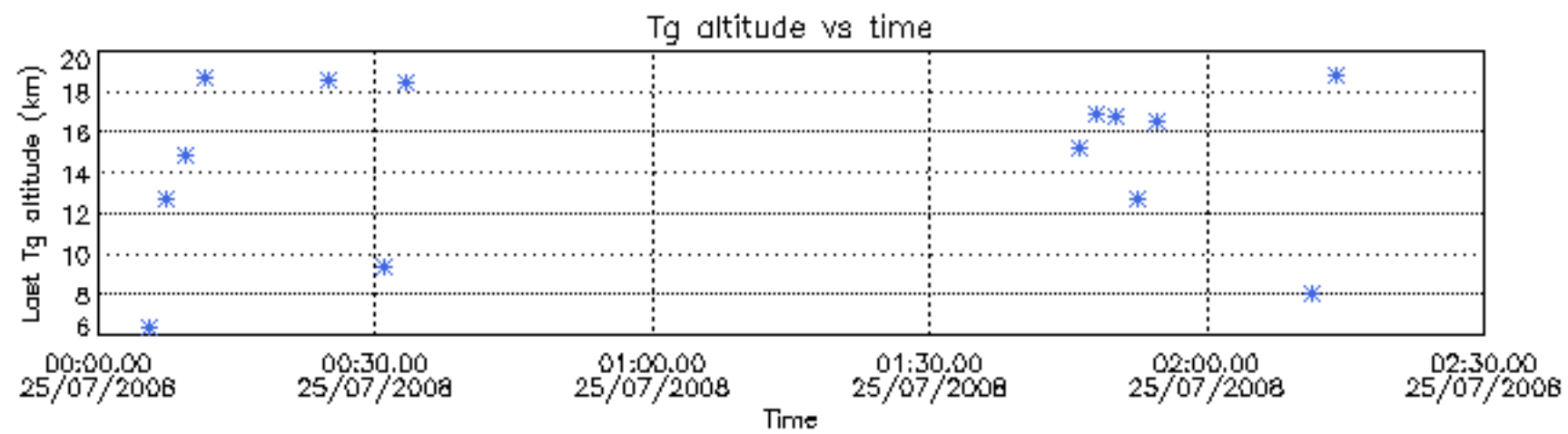


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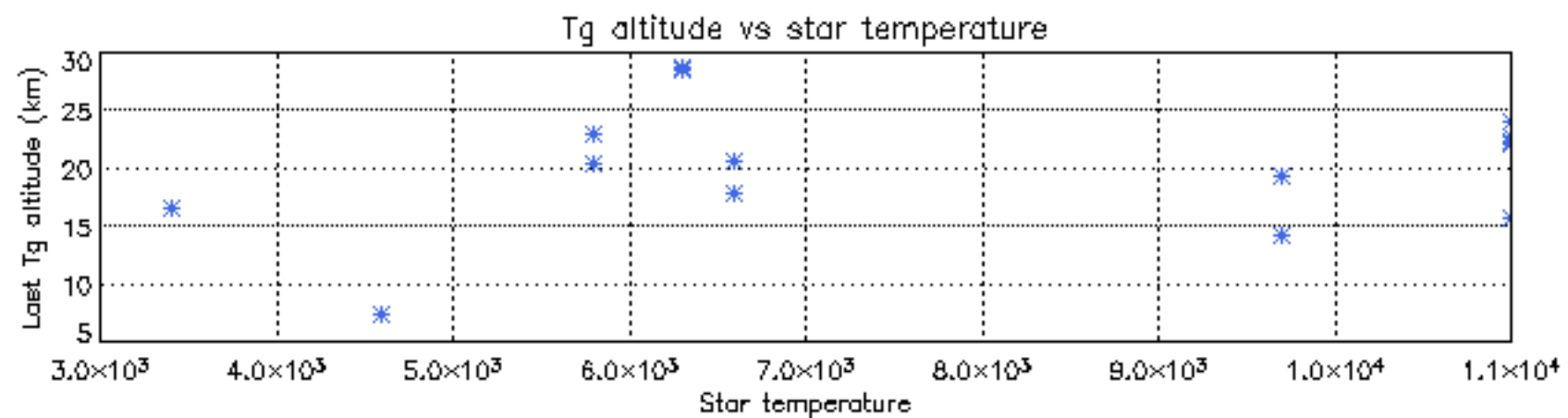
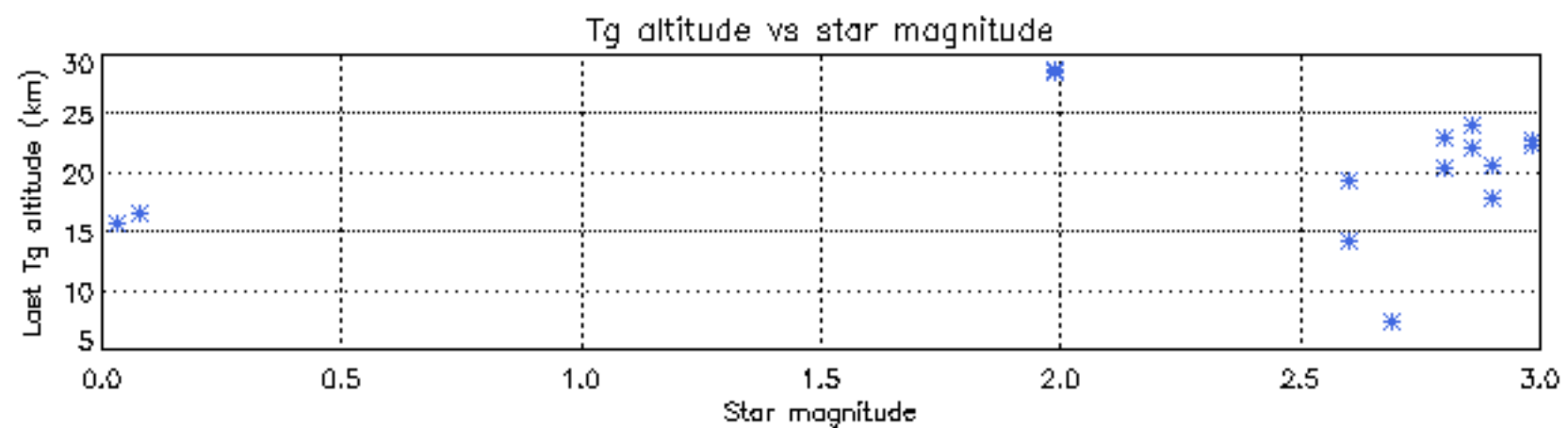
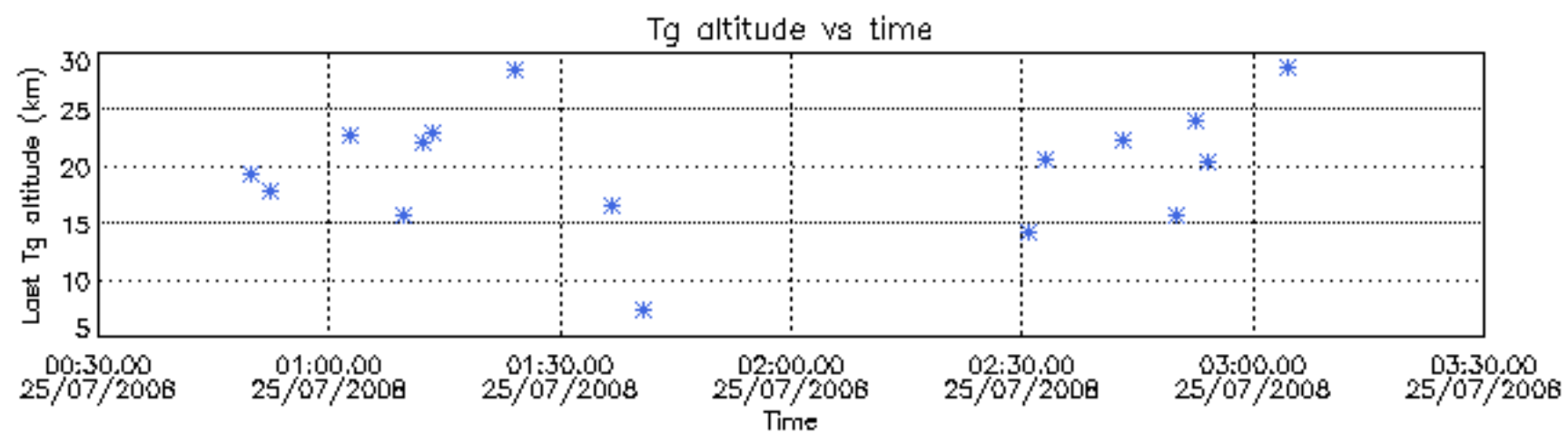


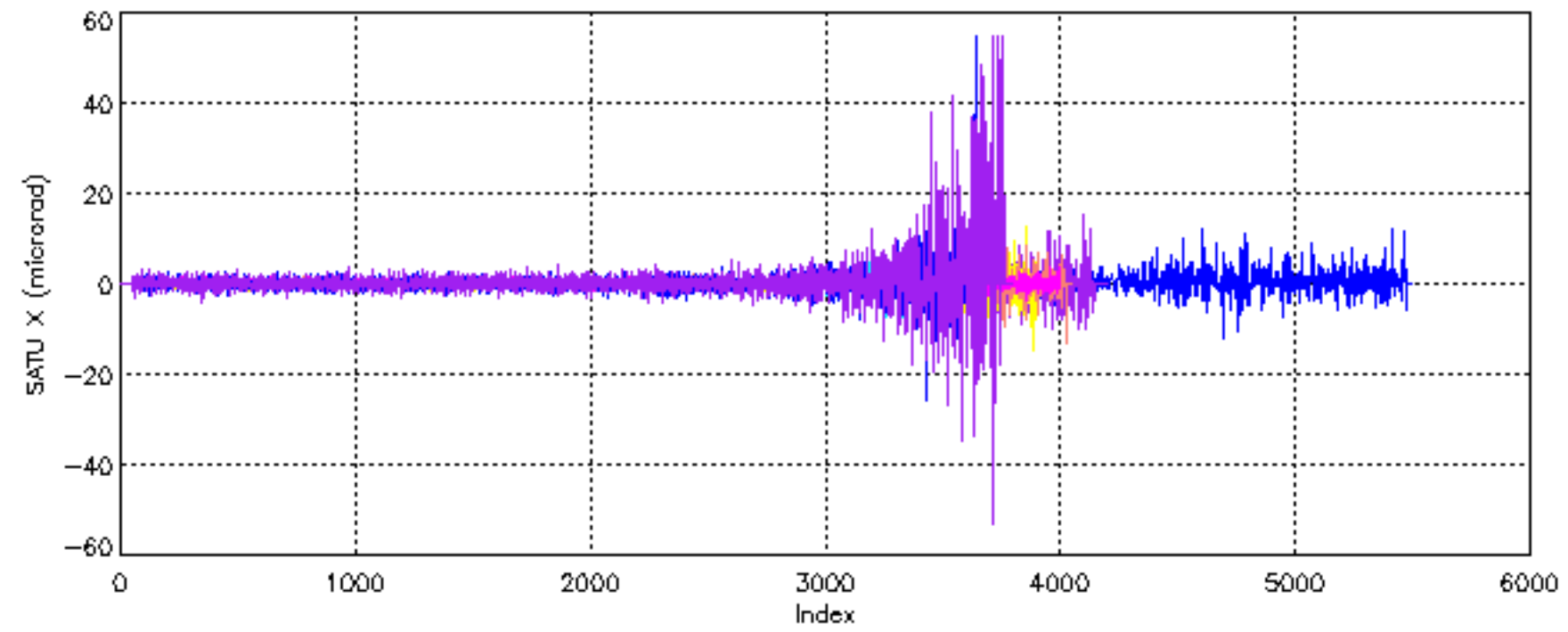


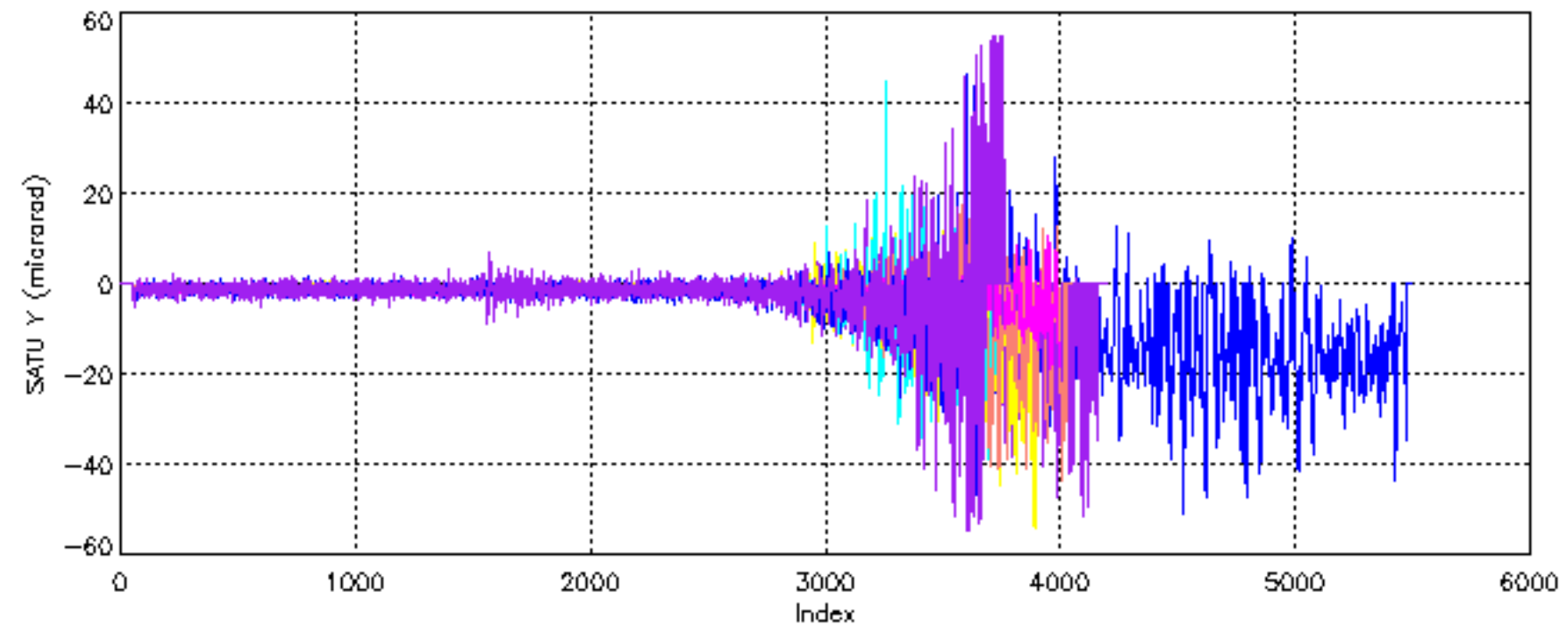
Tangent altitude at which the star is lost



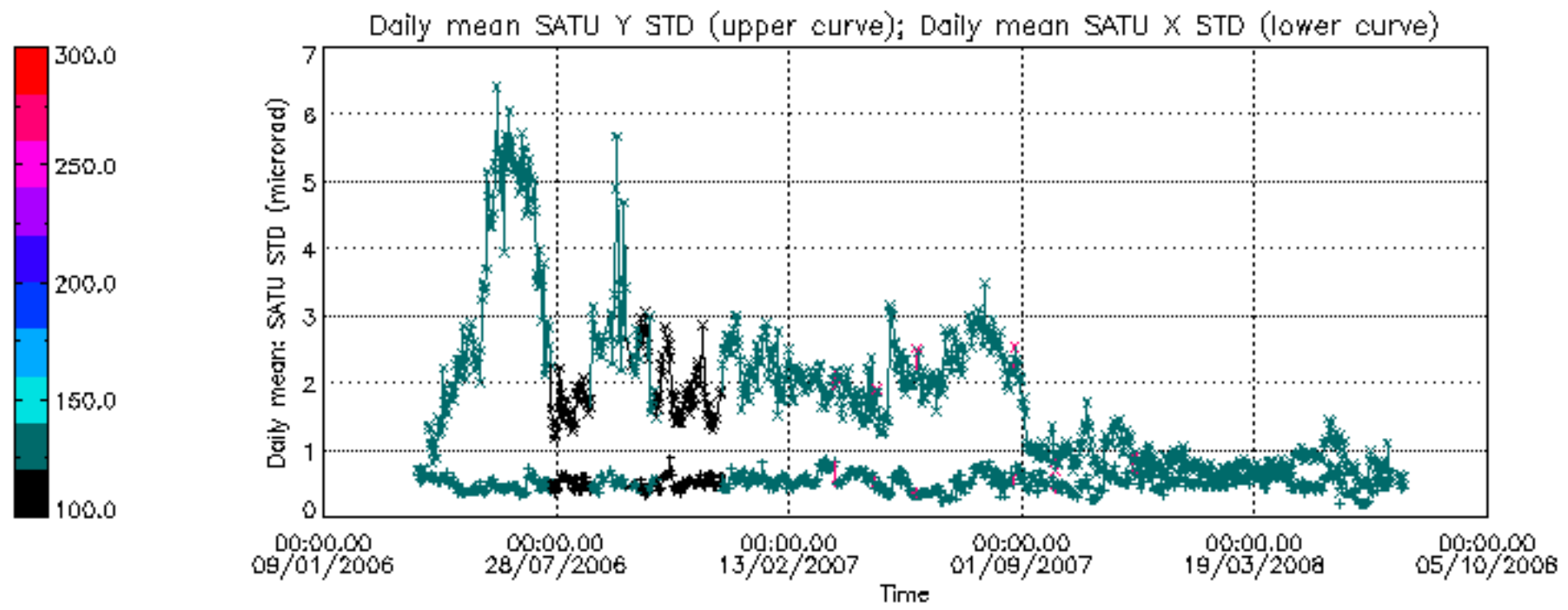
Tangent altitude at which the star is lost











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 17; 6713.1; 25-JUL-2008 10:41:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33471  
 18; 6904.9; 25-JUL-2008 10:44:12; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;33471  
 19; 7433.3; 25-JUL-2008 10:53:00; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;33471  
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 3; 2718.8; 25-JUL-2008 11:15:01; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;33472  
 4; 2811.2; 25-JUL-2008 11:16:34; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33472  
 5; 3442.3; 25-JUL-2008 11:27:05; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33472  
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 7; 4434.5; 25-JUL-2008 11:43:37; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;33472  
 8; 4758.0; 25-JUL-2008 11:49:01; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;33472  
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 12; 5274.7; 25-JUL-2008 11:57:37; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;33472  
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 19; 7433.5; 25-JUL-2008 12:33:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;33472  
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 4; 2811.3; 25-JUL-2008 12:57:10; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33473  
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 7; 4434.6; 25-JUL-2008 13:24:13; Bright; 41.5; 114; 3Iot Aur ; 2.69; 4600;occ; 83; 0;33473  
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 16; 6439.3; 25-JUL-2008 13:57:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33473  
 17; 6714.1; 25-JUL-2008 14:02:13; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33473  
 18; 6906.1; 25-JUL-2008 14:05:25; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;33473  
 19; 7433.7; 25-JUL-2008 14:14:12; Dark ; 39.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 78; 0;33473  
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 3; 2567.9; 25-JUL-2008 14:33:42; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;33474  
 4; 2718.4; 25-JUL-2008 14:36:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;33474  
 5; 2811.6; 25-JUL-2008 14:37:46; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33474  
 6; 3442.3; 25-JUL-2008 14:48:17; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33474  
 7; 4198.3; 25-JUL-2008 15:00:53; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33474  
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 13; 5275.3; 25-JUL-2008 15:18:50; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33474  
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17; 6439.6; 25-JUL-2008 15:38:14; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33474
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13; 5138.7; 25-JUL-2008 16:57:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;33475
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17; 6284.3; 25-JUL-2008 17:16:15; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33475
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19; 6716.0; 25-JUL-2008 20:44:38; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33477
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12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
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