

# GOMOS Daily Report 30-JUL-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	01AUG2007 10:06:23
Data source version	GOMOS/5.00
Start time of products	30-07-2007 (30JUL2007 00:00:00)
Stop time of products	31-07-2007 (31JUL2007 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)

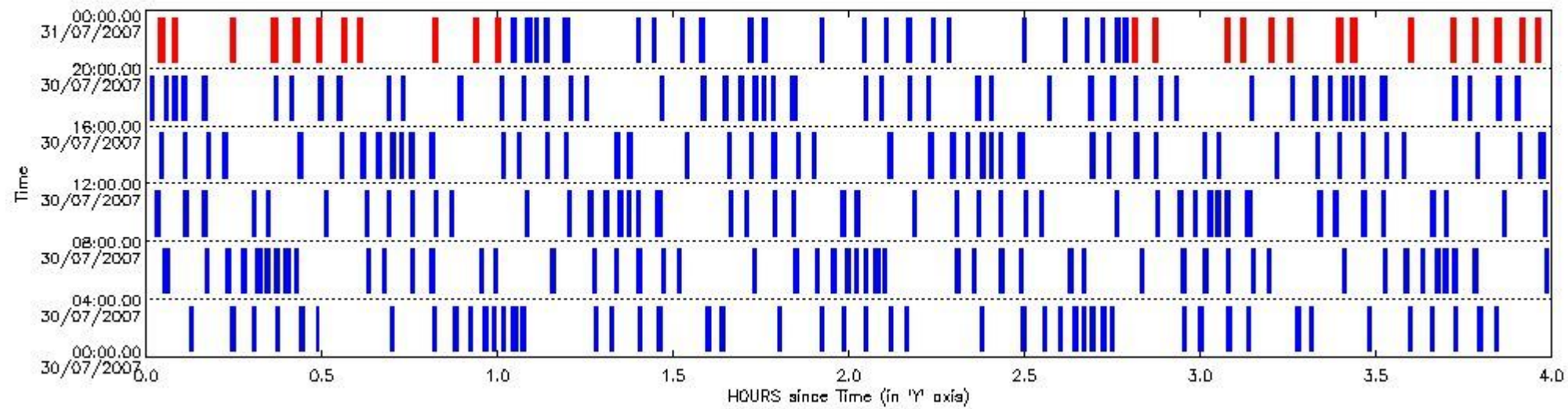
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
30-JUL-2007 20:02:08	38ZetSgr	103	28310
30-JUL-2007 20:04:31	41PISgr	155	28310
30-JUL-2007 20:14:22	17ZetAql	168	28310
30-JUL-2007 20:21:27	3AlpLyr	5	28310
30-JUL-2007 20:25:12	33GamDra	69	28310
30-JUL-2007 20:29:07	14EtaDra	119	28310
30-JUL-2007 20:33:18	7BetUMi	60	28310
30-JUL-2007 20:36:00	1AlpUMi	49	28310
30-JUL-2007 20:48:49	34BetAur	42	28310
30-JUL-2007 20:55:53	23ZetTau	176	28310
30-JUL-2007 20:59:32	58AlpOri	14	28310
30-JUL-2007 22:48:23	9BetLep	139	28311
30-JUL-2007 22:51:44	DSA1059	0	28311
30-JUL-2007 23:04:08	AlpHyi	143	28312
30-JUL-2007 23:06:51	BetHyi	135	28312

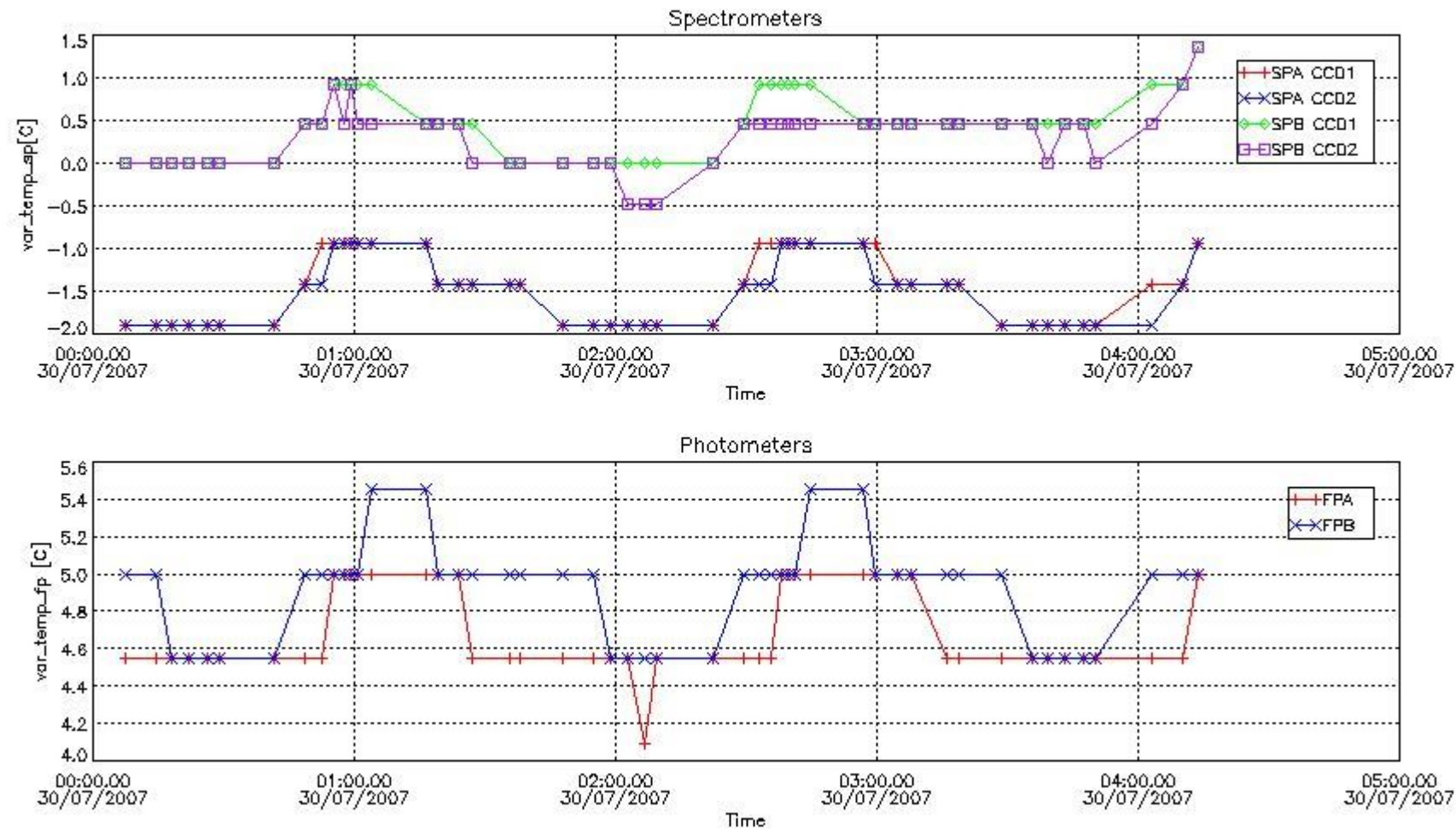
30-JUL-2007 23:11:39	AlpTuc	148	28312
30-JUL-2007 23:14:56	AlpPav	45	28312
30-JUL-2007 23:23:20	38ZetSgr	103	28312
30-JUL-2007 23:25:43	41PiSgr	155	28312
30-JUL-2007 23:35:34	17ZetAql	168	28312
30-JUL-2007 23:42:39	3AlpLyr	5	28312
30-JUL-2007 23:46:24	33GamDra	69	28312
30-JUL-2007 23:50:20	14EtaDra	119	28312
30-JUL-2007 23:54:31	7BetUMi	60	28312
30-JUL-2007 23:57:11	1AlpUMi	49	28312

## 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_1PNPDE20070730_000720_000000372060_00188_28298_6438.N1	30-JUL-2007 00:07:20	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	28298	No
2	GOM_TRA_1PNPDE20070730_001424_000000382060_00188_28298_6439.N1	30-JUL-2007 00:14:24	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28298	No
3	GOM_TRA_1PNPDE20070730_001808_000000372060_00188_28298_6440.N1	30-JUL-2007 00:18:08	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28298	No
4	GOM_TRA_1PNPDE20070730_002201_000000372060_00188_28298_6441.N1	30-JUL-2007 00:22:01	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28298	No
5	GOM_TRA_1PNPDE20070730_002612_000000372060_00188_28298_6442.N1	30-JUL-2007 00:26:12	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28298	No
6	GOM_TRA_1PNPDE20070730_002857_000000322060_00188_28298_6443.N1	30-JUL-2007 00:28:57	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28298	No
7	GOM_TRA_1PNPDE20070730_004145_000000342060_00188_28298_6444.N1	30-JUL-2007 00:41:45	Bright	33.500	42	34Bet Aur	1.9000	10200.	67	28298	No
8	GOM_TRA_1PNPDE20070730_004848_000000392060_00188_28298_6445.N1	30-JUL-2007 00:48:48	Twi_and_stray	39.000	176	23Zet Tau	3.0200	22000.	78	28298	No
9	GOM_TRA_1PNPDE20070730_005226_000000412060_00188_28298_6446.N1	30-JUL-2007 00:52:26	Dark	40.500	14	58Alp Ori	0.87000	3000.0	81	28298	No
10	GOM_TRA_1PNPDE20070730_005509_000000362060_00188_28298_6447.N1	30-JUL-2007 00:55:09	Dark	35.500	30	46Eps Ori	1.6940	30000.	71	28298	No
11	GOM_TRA_1PNPDE20070730_005734_000000392060_00188_28298_6448.N1	30-JUL-2007 00:57:34	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28298	No
12	GOM_TRA_1PNPDE20070730_005905_000000402060_00188_28298_6449.N1	30-JUL-2007 00:59:05	Dark	40.000	47	2Bet CMa	1.9760	28000.	80	28298	No
13	GOM_TRA_1PNPDE20070730_010040_000000422060_00188_28298_6563.N1	30-JUL-2007 01:00:40	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	28298	No
14	GOM_TRA_1PNPDE20070730_010402_000000402060_00188_28298_6564.N1	30-JUL-2007 01:04:02	Dark	40.000	108	Alp Col	2.6520	15200.	80	28298	No
15	GOM_TRA_1PNPDE20070730_011623_000000382060_00189_28299_6565.N1	30-JUL-2007 01:16:23	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	28299	No
16	GOM_TRA_1PNPDE20070730_011909_000000372060_00189_28299_6566.N1	30-JUL-2007 01:19:09	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28299	No
17	GOM_TRA_1PNPDE20070730_012355_000000402060_00189_28299_6567.N1	30-JUL-2007 01:23:55	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28299	No
18	GOM_TRA_1PNPDE20070730_012714_000000422060_00189_28299_6568.N1	30-JUL-2007 01:27:14	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	28299	No
19	GOM_TRA_1PNPDE20070730_013539_000000432060_00189_28299_6569.N1	30-JUL-2007 01:35:39	Bright	43.000	103	38Zet Sgr	2.6000	9700.0	86	28299	No
20	GOM_TRA_1PNPDE20070730_013802_000000372060_00189_28299_6570.N1	30-JUL-2007 01:38:02	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28299	No
21	GOM_TRA_1PNPDE20070730_014755_000000352060_00189_28299_6571.N1	30-JUL-2007 01:47:55	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28299	No
22	GOM_TRA_1PNPDE20070730_015500_000000342060_00189_28299_6572.N1	30-JUL-2007 01:55:00	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	28299	No
23	GOM_TRA_1PNPDE20070730_015844_000000372060_00189_28299_6573.N1	30-JUL-2007 01:58:44	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28299	No
24	GOM_TRA_1PNPDE20070730_020238_000000372060_00189_28299_6574.N1	30-JUL-2007 02:02:38	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	28299	No
25	GOM_TRA_1PNPDE20070730_020649_000000342060_00189_28299_6575.N1	30-JUL-2007 02:06:49	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	28299	No
26	GOM_TRA_1PNPDE20070730_020933_000000332060_00189_28299_6576.N1	30-JUL-2007 02:09:33	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28299	No
27	GOM_TRA_1PNPDE20070730_022221_000000342060_00189_28299_6712.N1	30-JUL-2007 02:22:21	Bright	33.500	42	34Bet Aur	1.9000	10200.	67	28299	No
28	GOM_TRA_1PNPDE20070730_022924_000000392060_00189_28299_6713.N1	30-JUL-2007 02:29:24	Twi_and_stray	39.000	176	23Zet Tau	3.0200	22000.	78	28299	No
29	GOM_TRA_1PNPDE20070730_023302_000000382060_00189_28299_6714.N1	30-JUL-2007 02:33:02	Dark	37.500	14	58Alp Ori	0.87000	3000.0	75	28299	No
30	GOM_TRA_1PNPDE20070730_023545_000000382060_00189_28299_6715.N1	30-JUL-2007 02:35:45	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	28299	No
31	GOM_TRA_1PNPDE20070730_023810_000000482060_00189_28299_6716.N1	30-JUL-2007 02:38:10	Dark	47.500	7	19Bet Ori	0.10000	14000.	95	28299	No
32	GOM_TRA_1PNPDE20070730_023941_000000402060_00189_28299_6717.N1	30-JUL-2007 02:39:41	Dark	39.500	47	2Bet CMa	1.9760	28000.	79	28299	No
33	GOM_TRA_1PNPDE20070730_024116_000000422060_00189_28299_6718.N1	30-JUL-2007 02:41:16	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28299	No
34	GOM_TRA_1PNPDE20070730_024438_000000382060_00189_28299_6719.N1	30-JUL-2007 02:44:38	Dark	38.000	108	Alp Col	2.6520	15200.	76	28299	No
35	GOM_TRA_1PNPDE20070730_025659_000000382060_00190_28300_6720.N1	30-JUL-2007 02:56:59	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28300	No
36	GOM_TRA_1PNPDE20070730_025945_000000372060_00190_28300_6721.N1	30-JUL-2007 02:59:45	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28300	No
37	GOM_TRA_1PNPDE20070730_030431_000000482060_00190_28300_6722.N1	30-JUL-2007 03:04:31	Straylight	48.000	148	Alp Tuc	2.8780	4100.0	96	28300	No
38	GOM_TRA_1PNPDE20070730_030750_000000392060_00190_28300_6723.N1	30-JUL-2007 03:07:50	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28300	No
39	GOM_TRA_1PNPDE20070730_031615_000000522060_00190_28300_6724.N1	30-JUL-2007 03:16:15	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	28300	No
40	GOM_TRA_1PNPDE20070730_031838_000000382060_00190_28300_6725.N1	30-JUL-2007 03:18:38	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28300	No
41	GOM_TRA_1PNPDE20070730_032831_000000352060_00190_28300_6726.N1	30-JUL-2007 03:28:31	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28300	No
42	GOM_TRA_1PNPDE20070730_033536_000000342060_00190_28300_6727.N1	30-JUL-2007 03:35:36	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	28300	No
43	GOM_TRA_1PNPDE20070730_033920_000000342060_00190_28300_6728.N1	30-JUL-2007 03:39:20	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28300	No
44	GOM_TRA_1PNPDE20070730_034314_000000342060_00190_28300_6729.N1	30-JUL-2007 03:43:14	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	28300	No

45	GOM_TRA_1PNPDE20070730_034725_000000372060_00190_28300_6730.N1	30-JUL-2007 03:47:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	28300	No
46	GOM_TRA_1PNPDE20070730_035009_000000362060_00190_28300_6731.N1	30-JUL-2007 03:50:09	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28300	No
47	GOM_TRA_1PNPDE20070730_040257_000000532060_00190_28300_6865.N1	30-JUL-2007 04:02:57	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	28300	No
48	GOM_TRA_1PNPDE20070730_041000_000000382060_00190_28300_6866.N1	30-JUL-2007 04:10:00	Twilight_stray	38.000	176	23Zet Tau	3.0200	22000.	76	28300	No
49	GOM_TRA_1PNPDE20070730_041338_000000382060_00190_28300_6867.N1	30-JUL-2007 04:13:38	Dark	38.000	14	58Alp Ori	0.87000	3000.0	76	28300	No

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



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

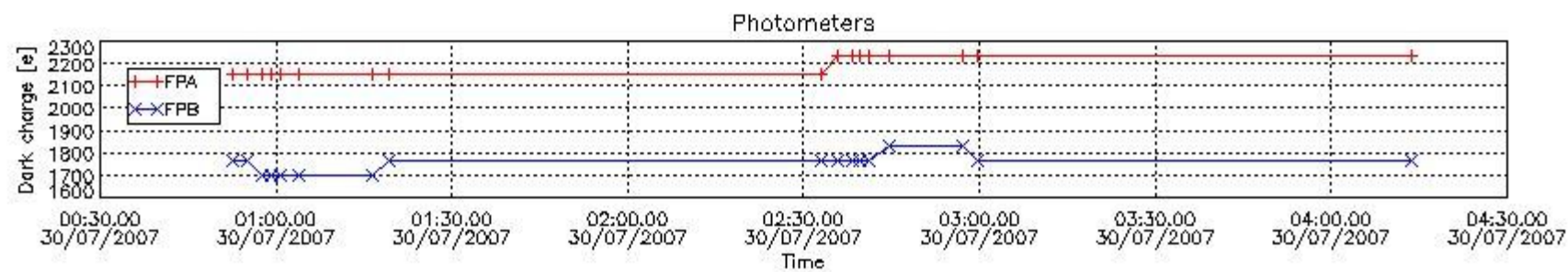
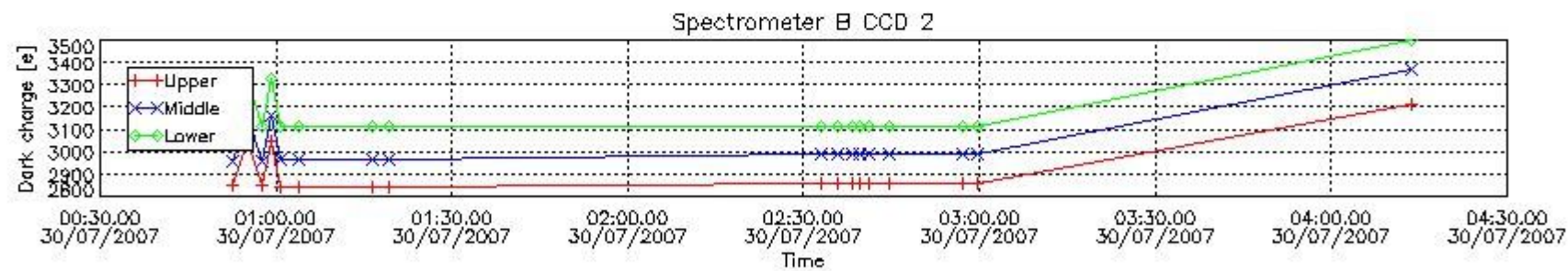
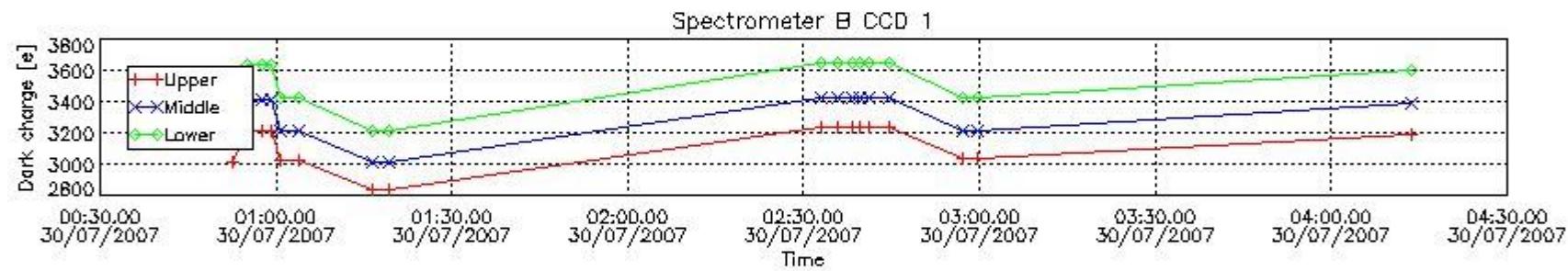
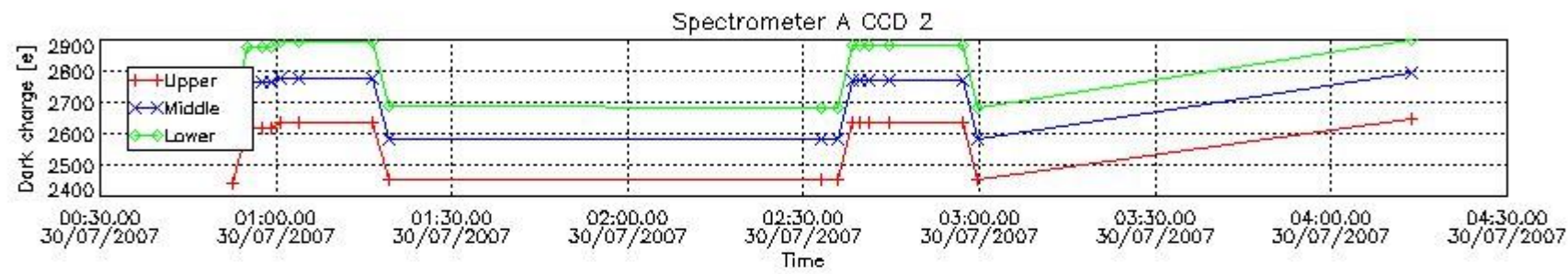
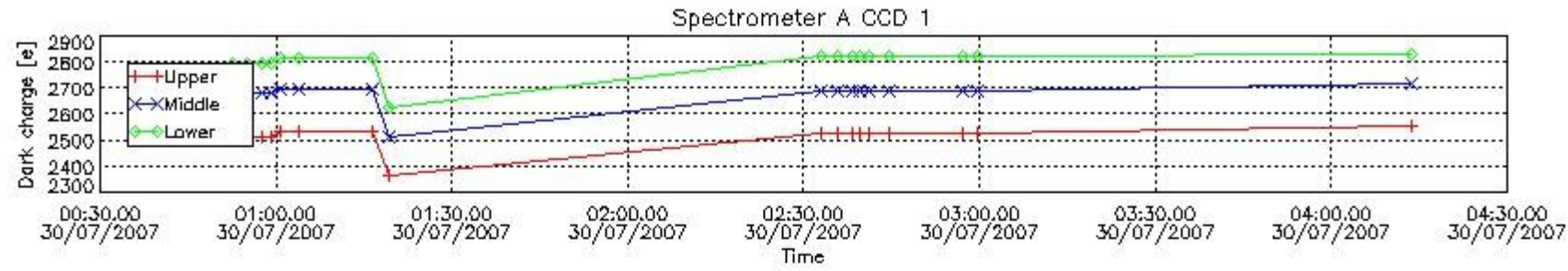
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 All products used the DSA observation for the DC computation

#### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used





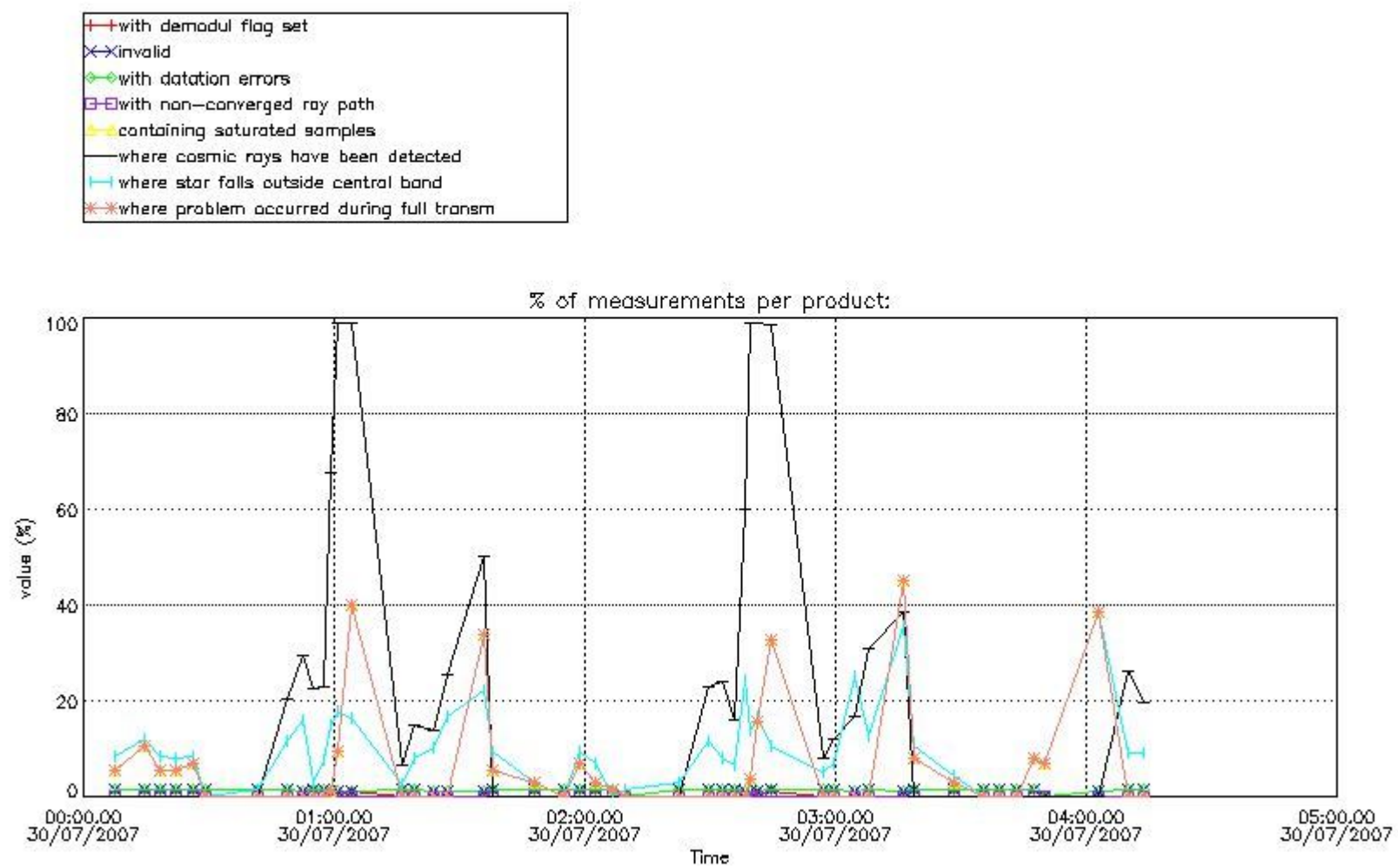
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

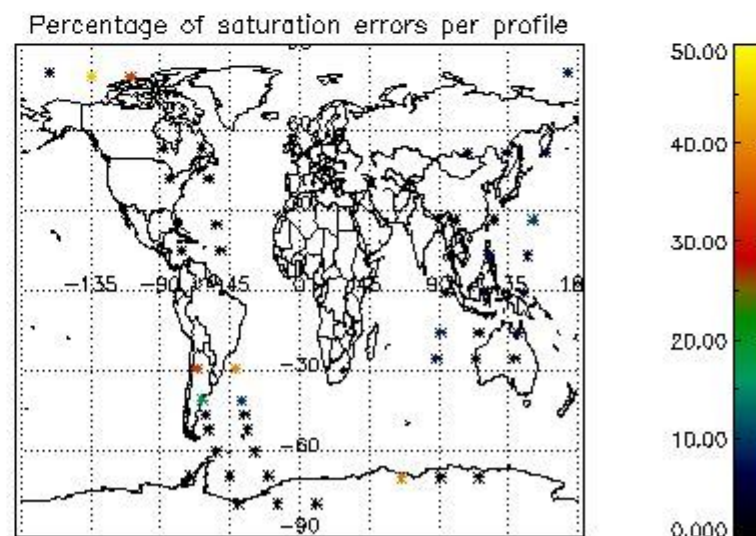
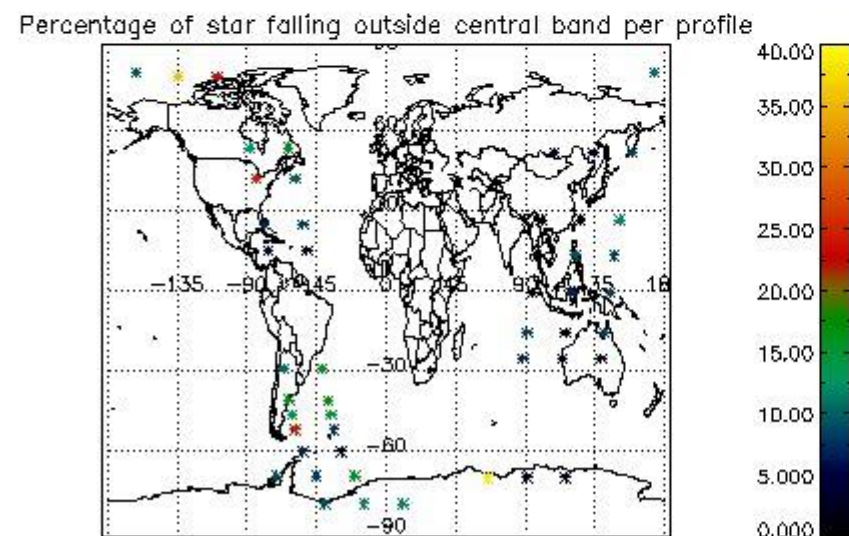
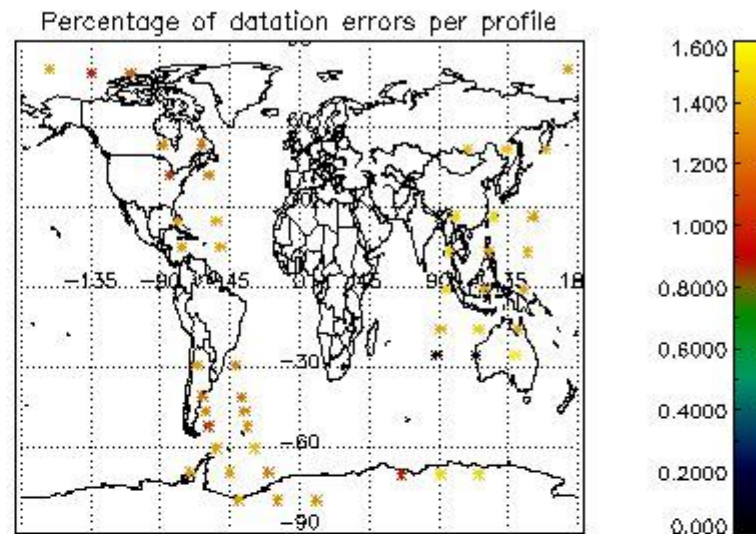
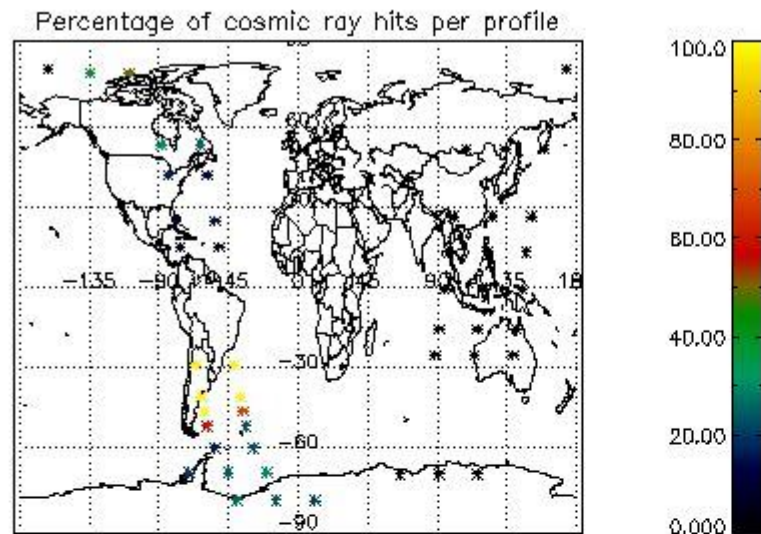
At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





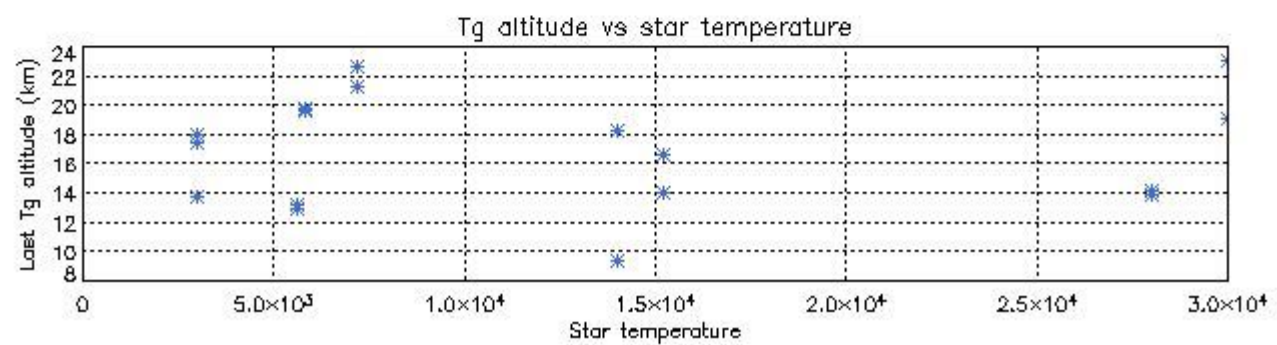
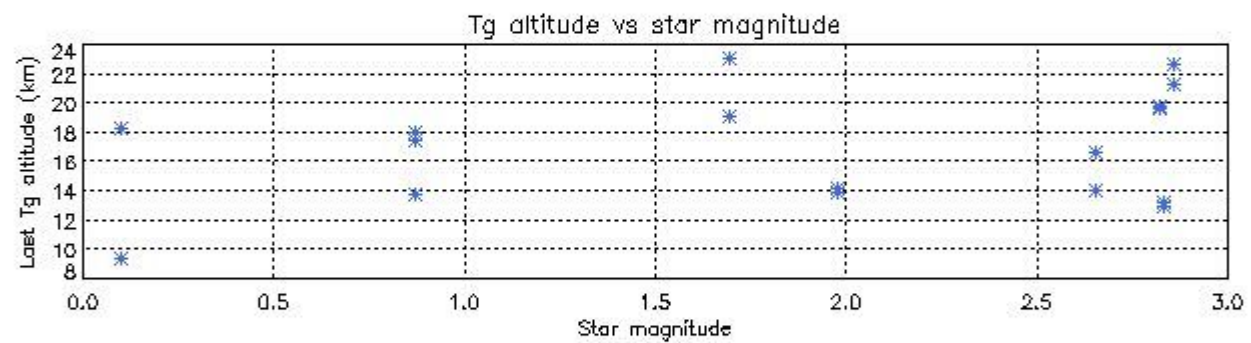
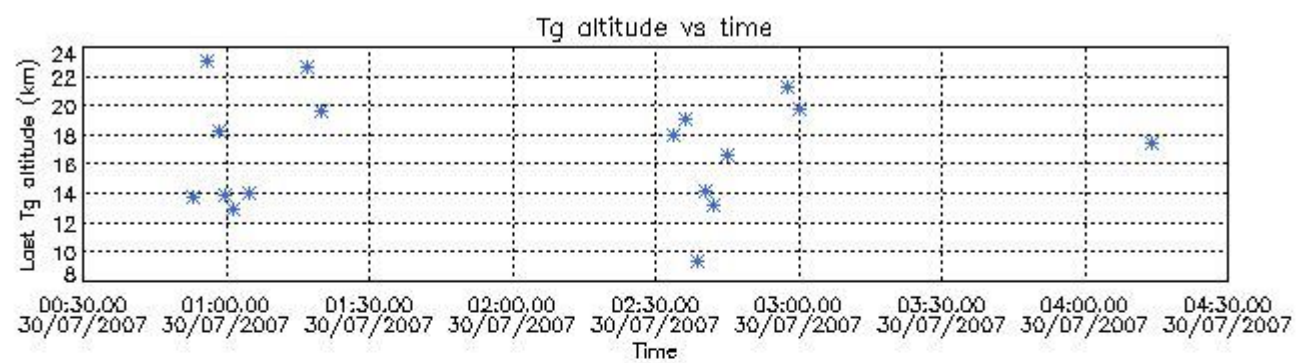
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.886	20.560	NaN
St. deviation:	3.8235	6.6589	NaN
Maximum:	22.977	29.780	NaN
Minimum:	9.4236	3.3980	NaN
Number of data:	17.000	25.000	NaN

### 6.2 Plot for DARK limb products

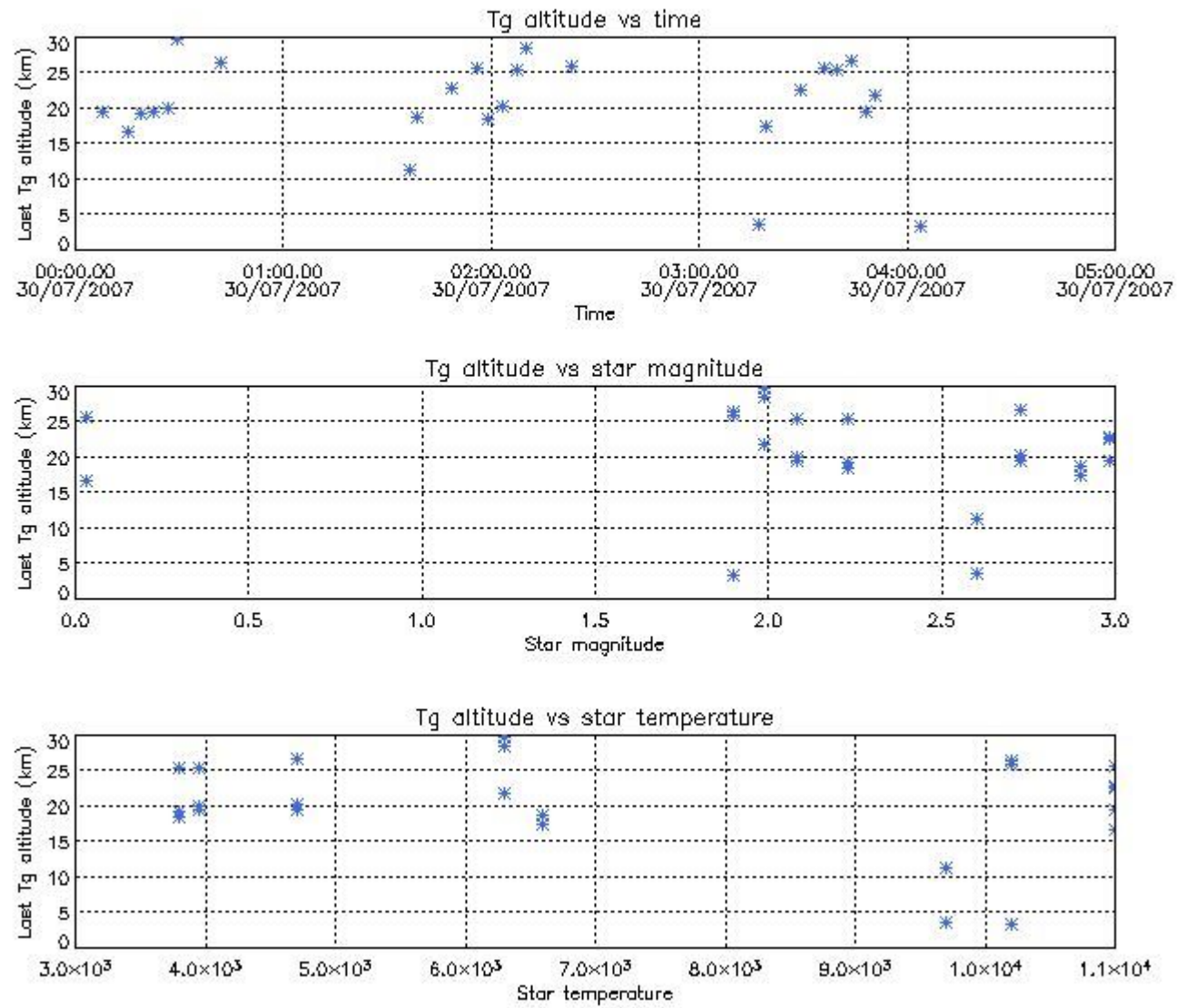
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

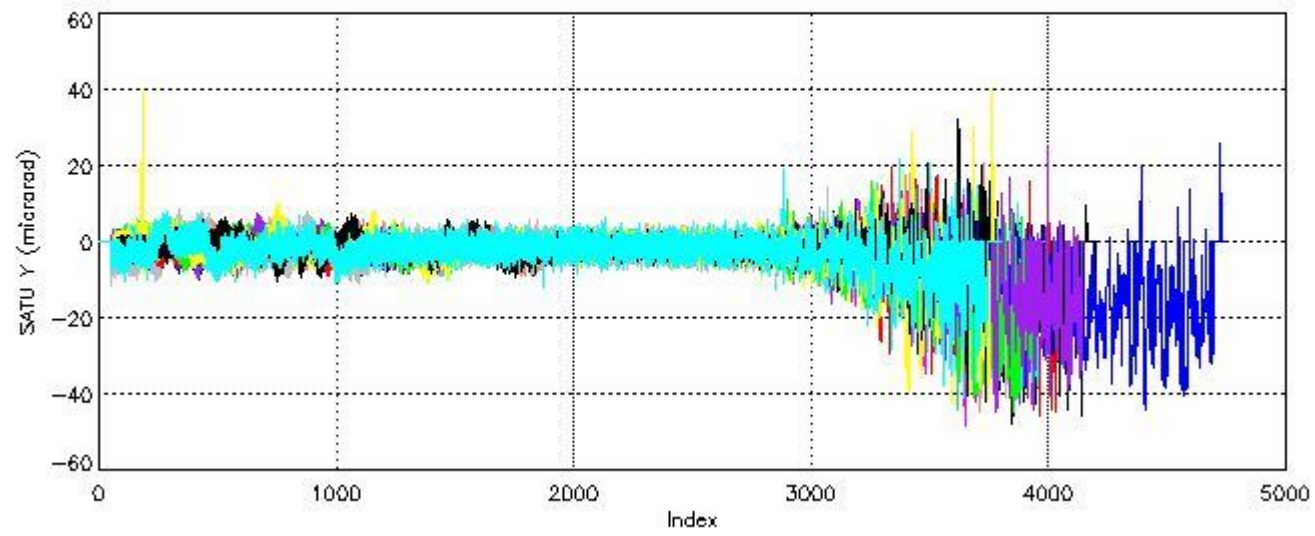
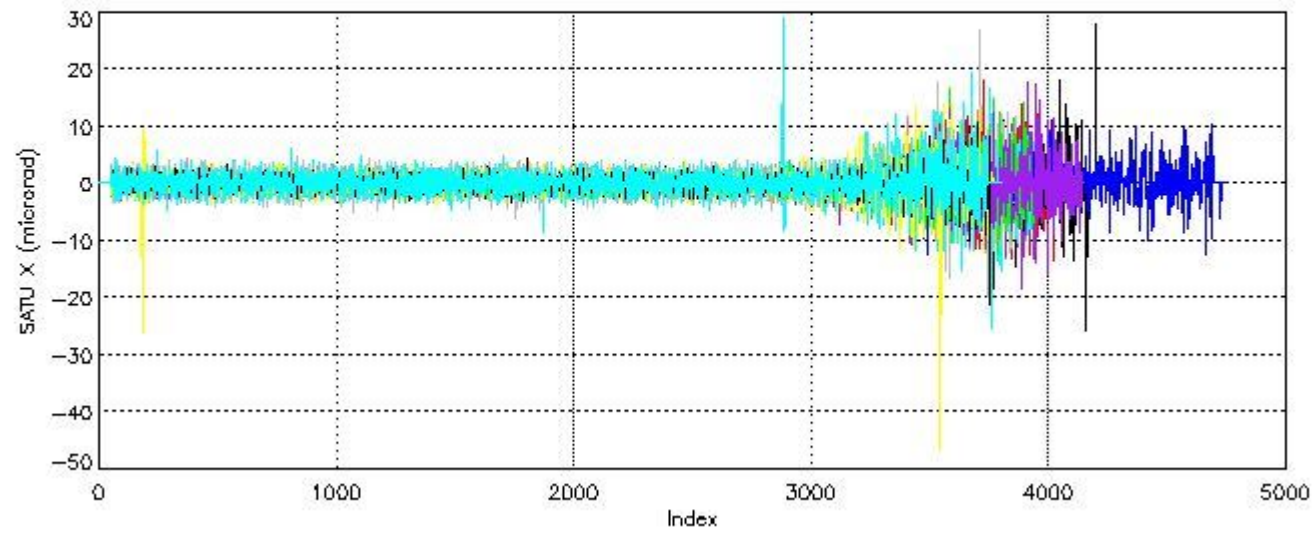


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.027670	-1.1950	-0.00071706	-1.1268
St. deviation:	0.66246	2.5467	0.70855	2.5148
Maximum:	9.6000	39.300	5.1000	8.7000
Minimum:	-26.100	-10.600	-5.8000	-11.700

Number of data:	14850.	14850.	20350.	20350.
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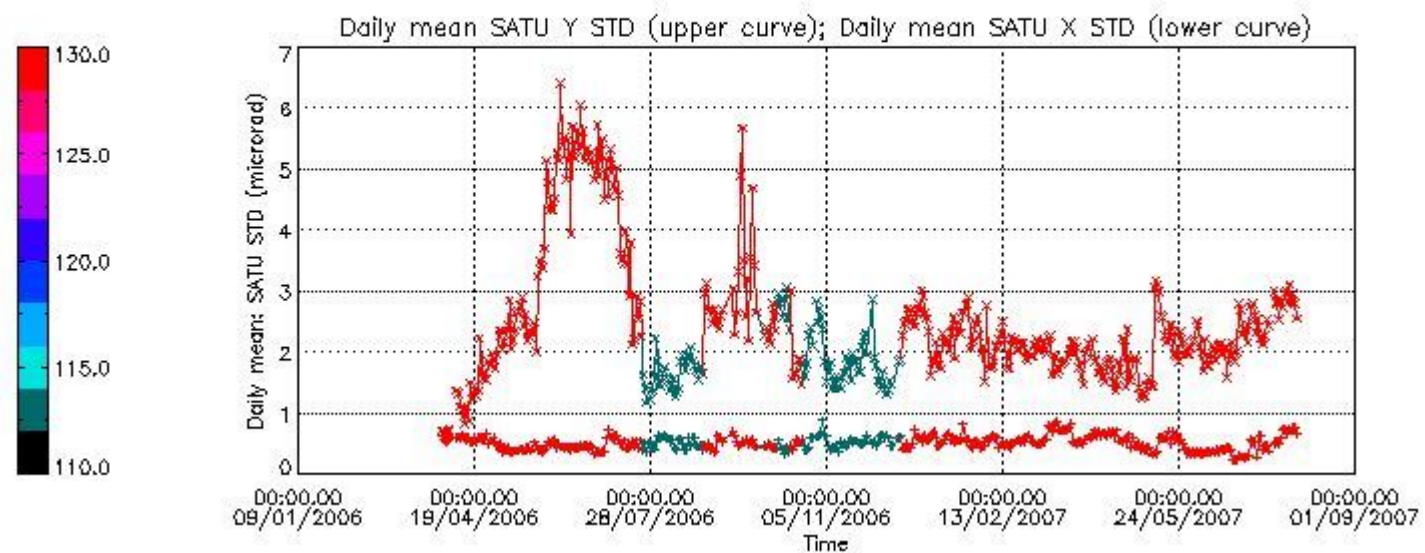
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

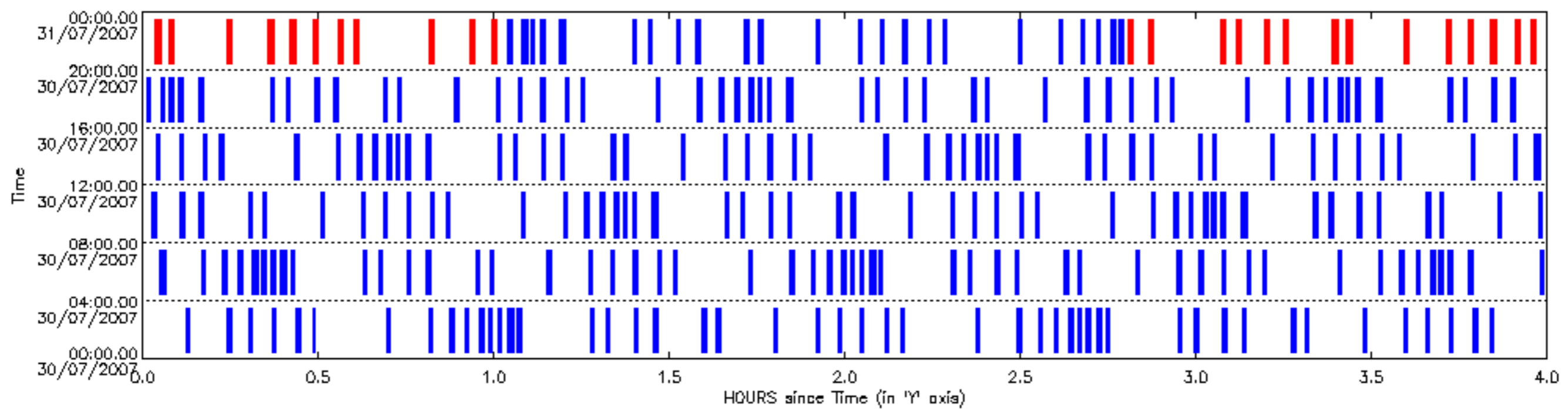


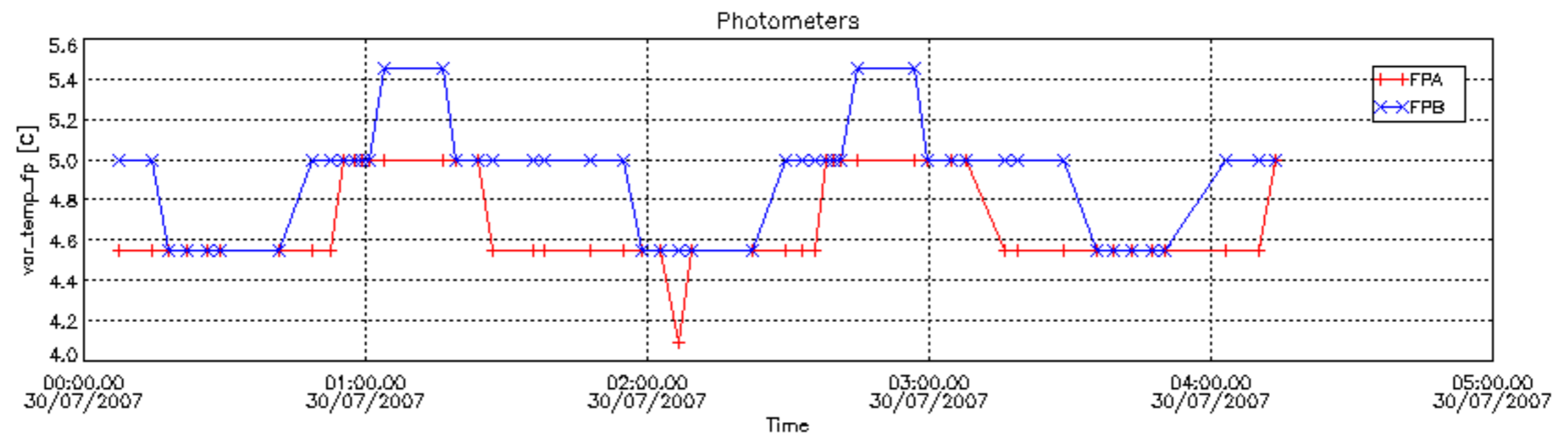
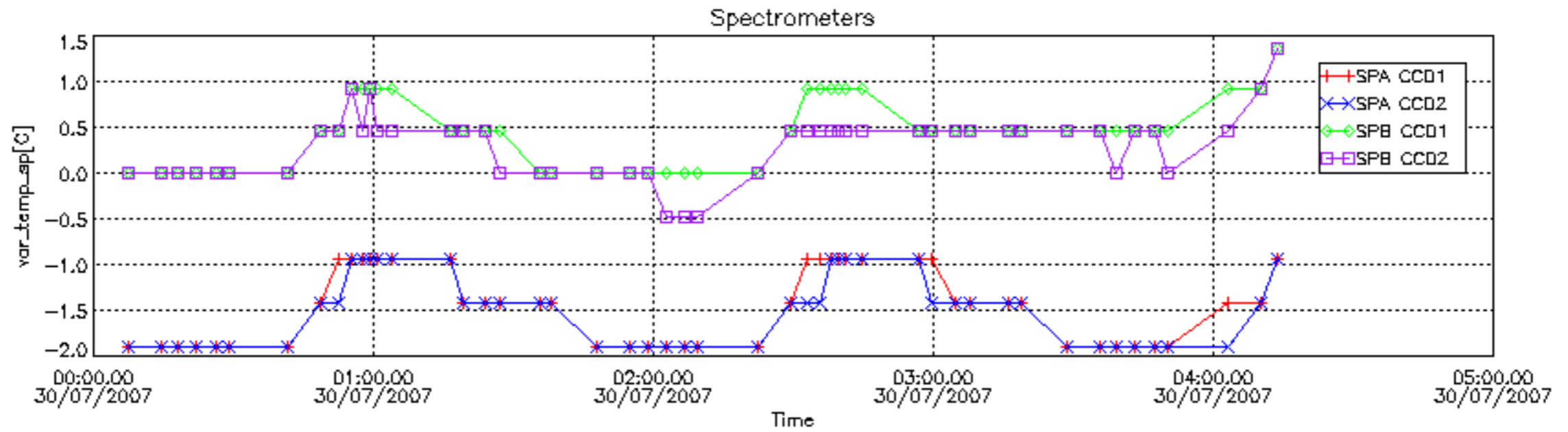
### 8. Auxiliary Data Files used for the production reported in section 2.4

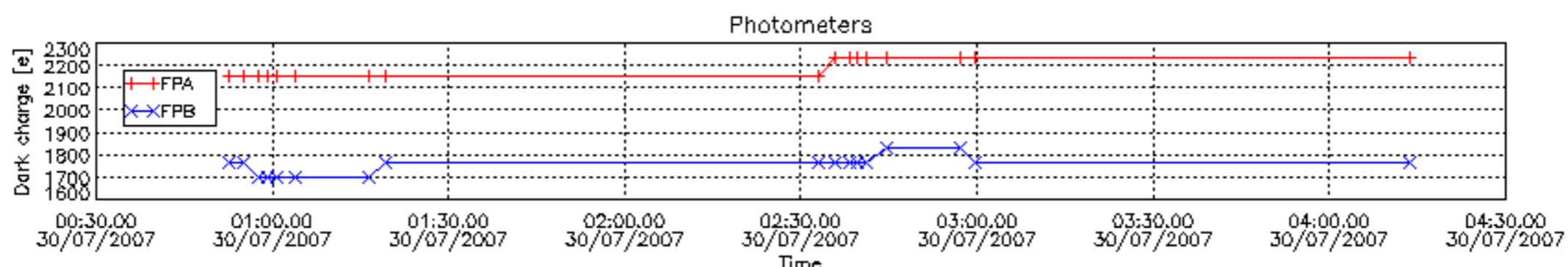
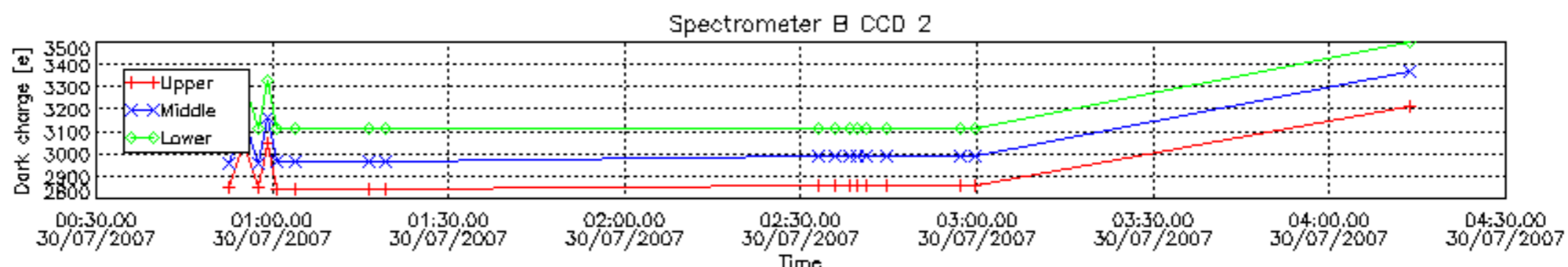
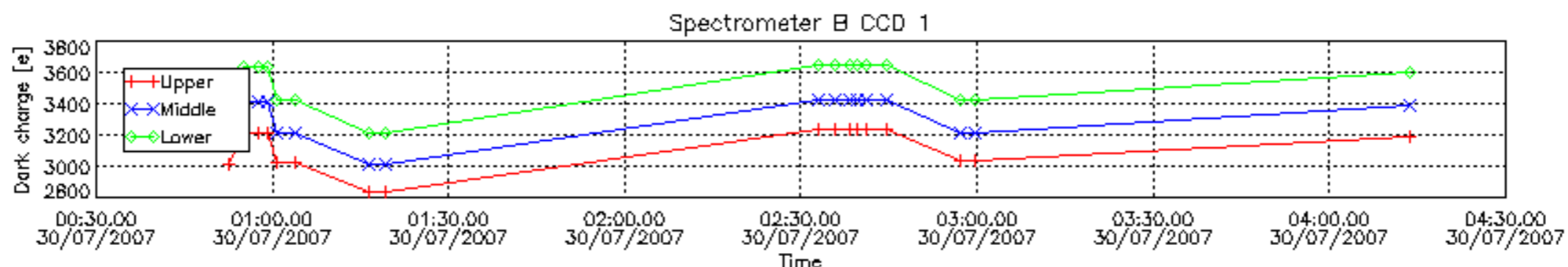
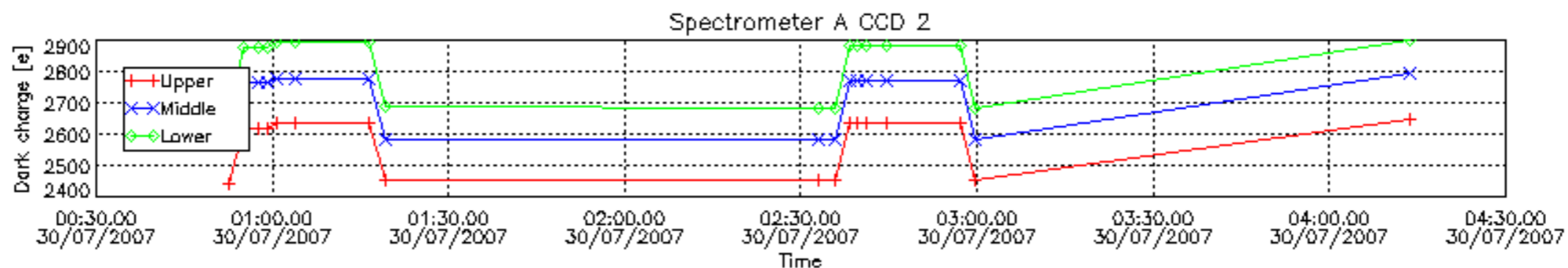
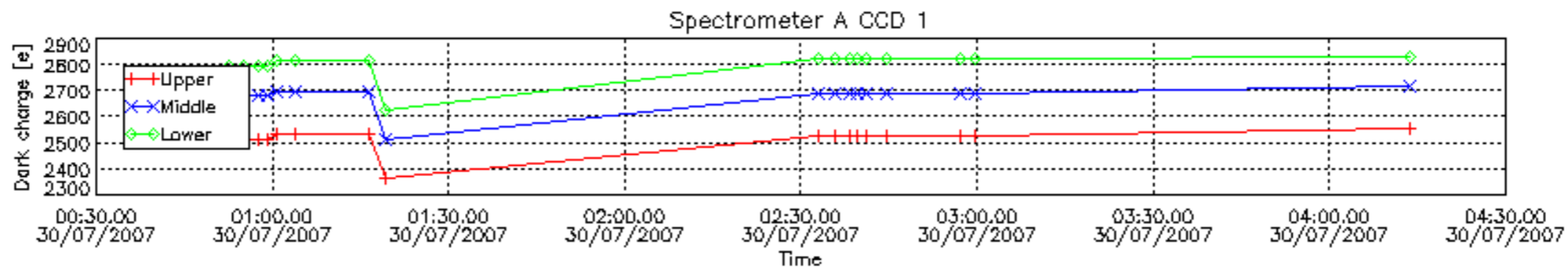
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-JUL-2007 00:07:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	30-JUL-2007 00:07:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-JUL-2007 00:07:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-JUL-2007 00:07:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-JUL-2007 00:07:20
ECMWF_FILE	AUX_ECF_AXNECM20070729_062113_20070729_210000_20070730_090000	1	30-JUL-2007 00:07:20
ECMWF_FILE	AUX_ECF_AXNECM20070729_181115_20070730_030000_20070730_150000	47	30-JUL-2007 04:02:57
OPTIONAL_ECMWF_FILE	MISSING	1	30-JUL-2007 00:07:20
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20070729_231115_20070729_182948_20070808_213638	1	30-JUL-2007 00:07:20





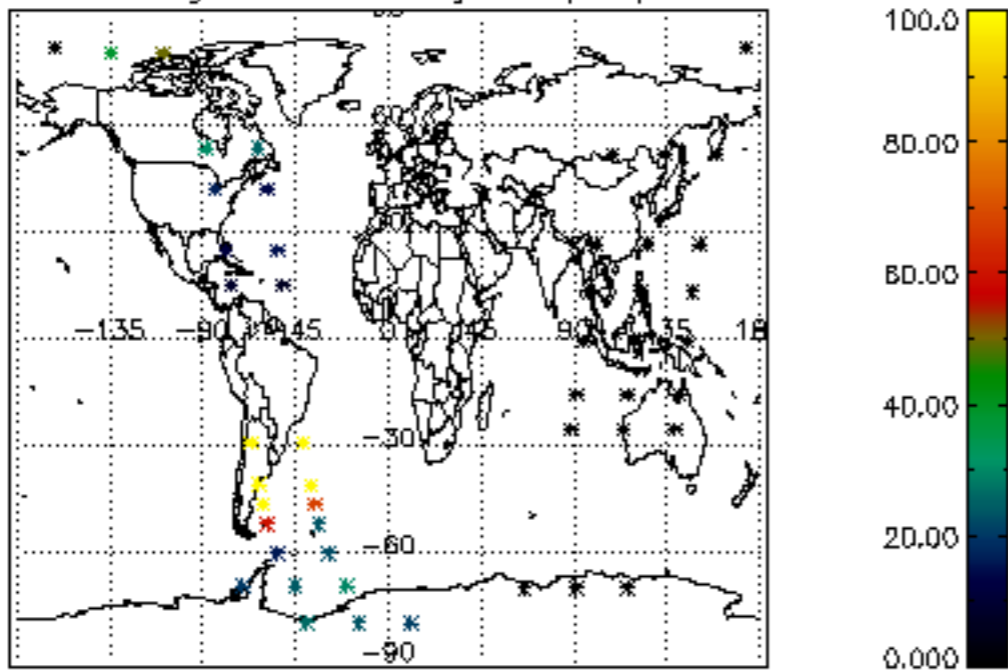




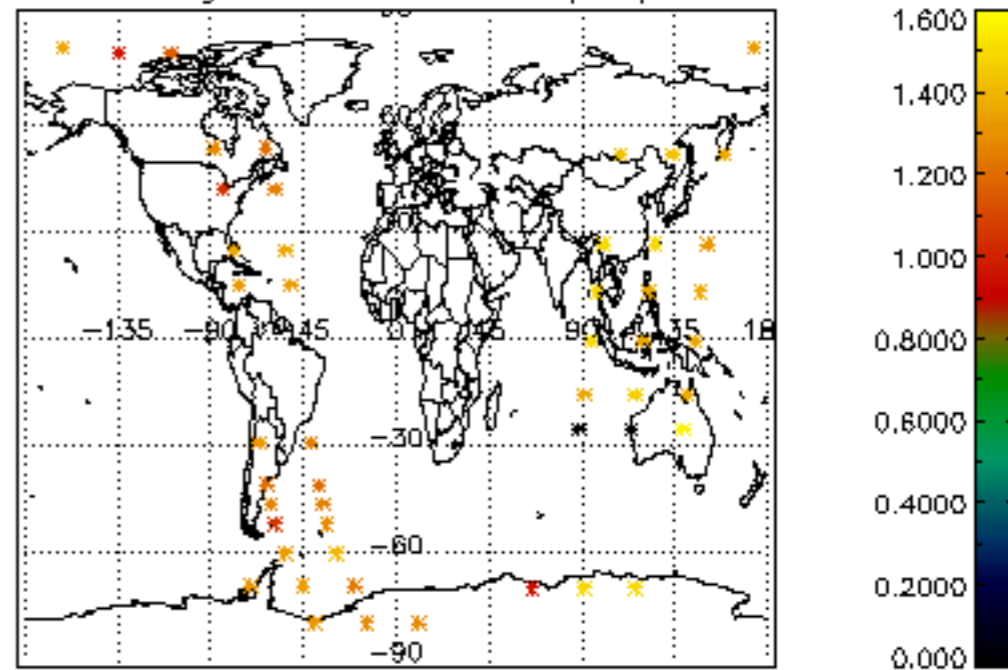




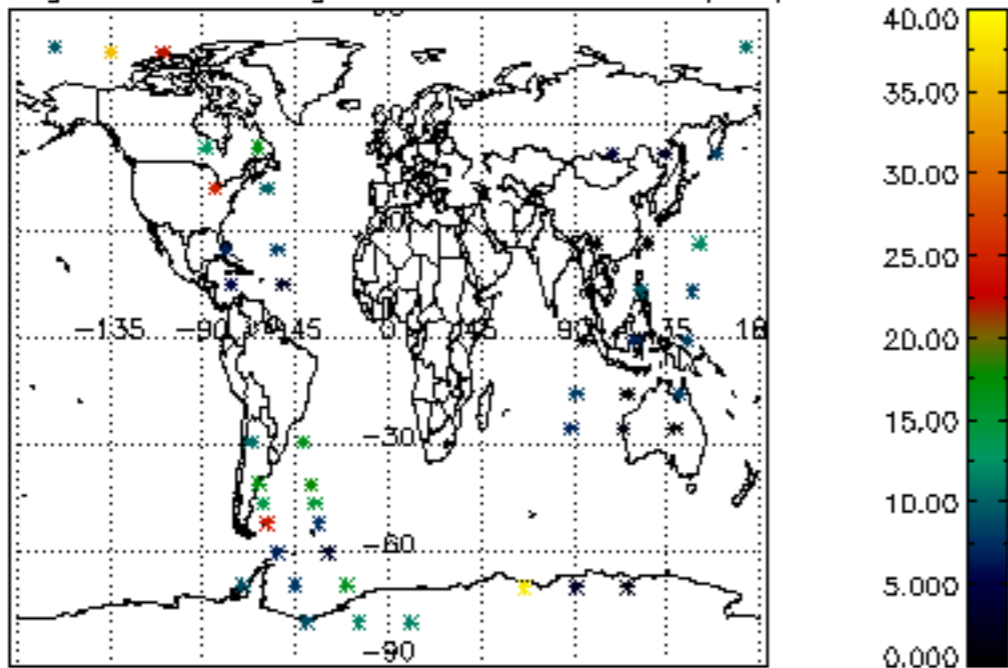
Percentage of cosmic ray hits per profile



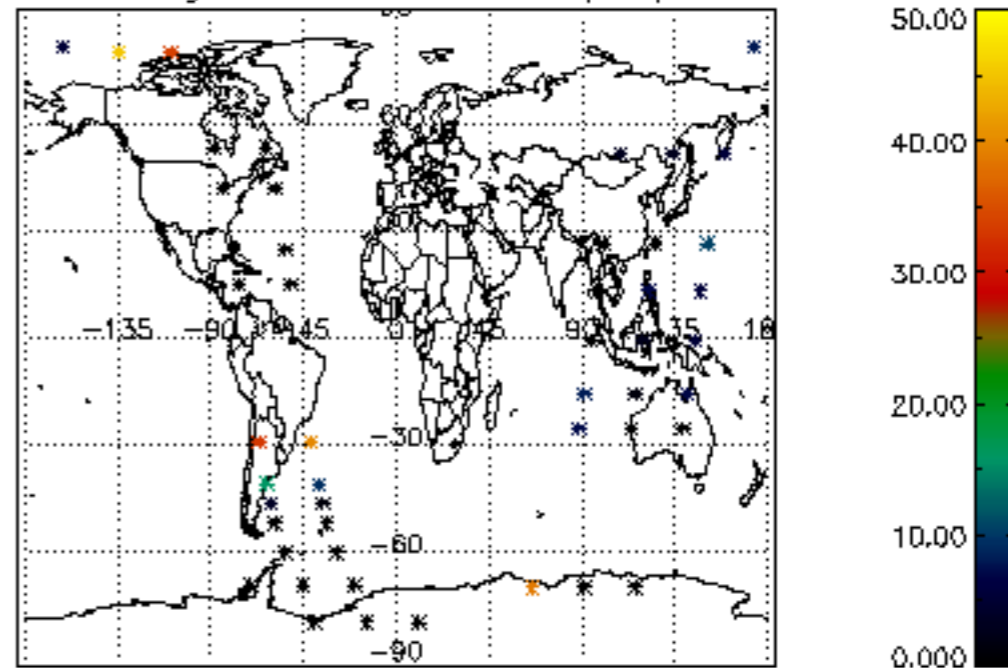
Percentage of datation errors per profile



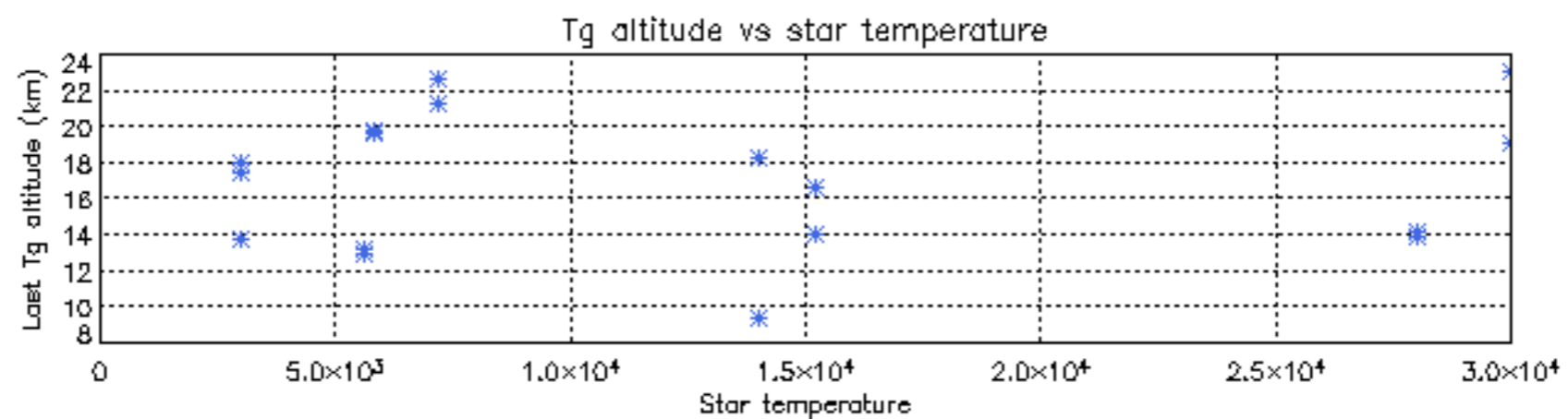
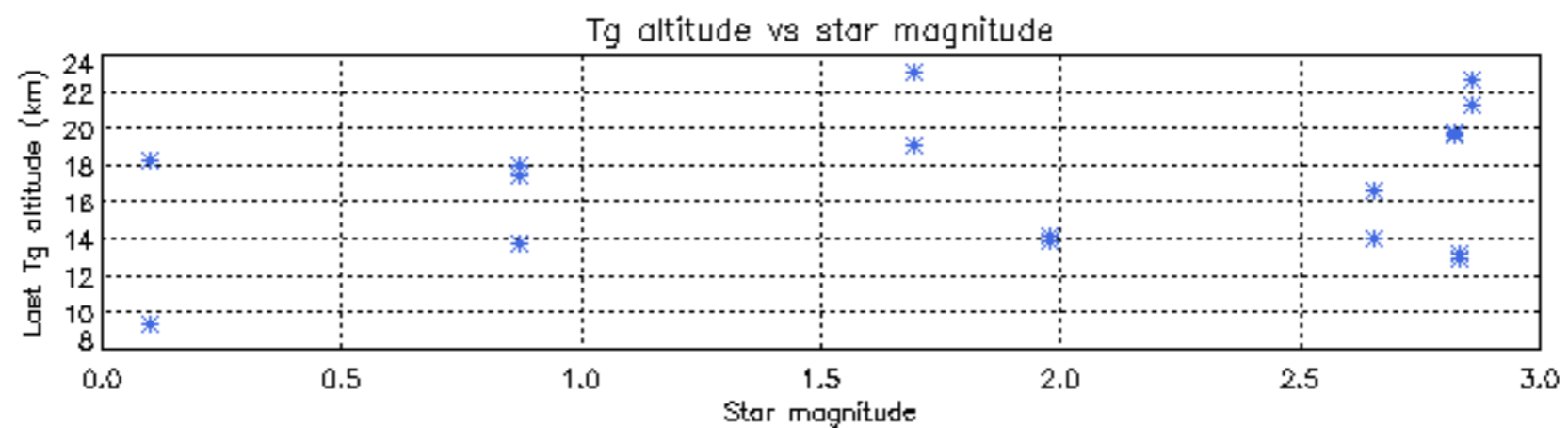
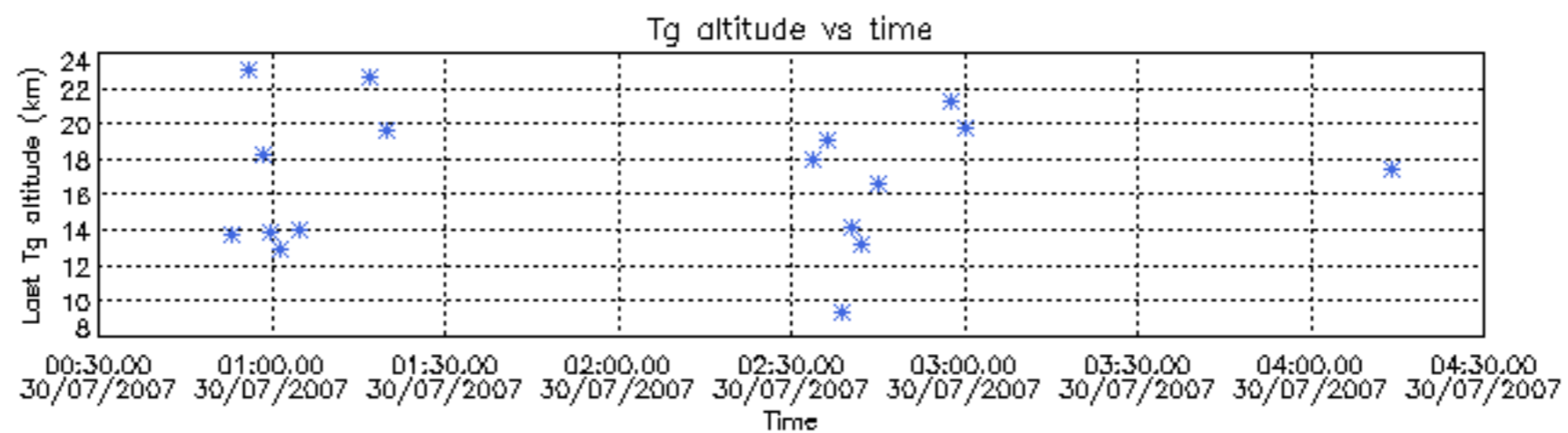
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

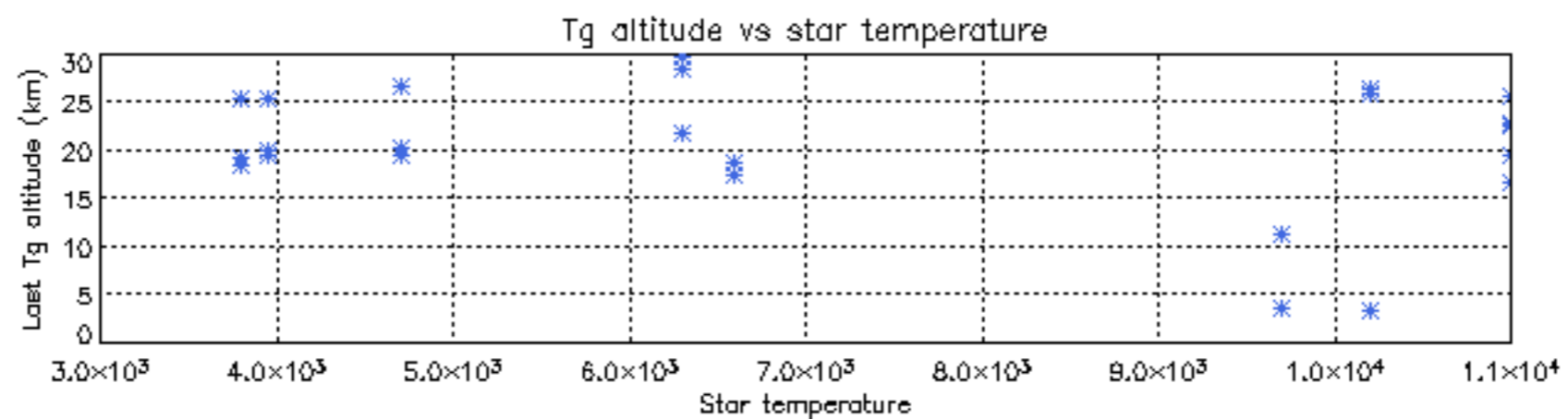
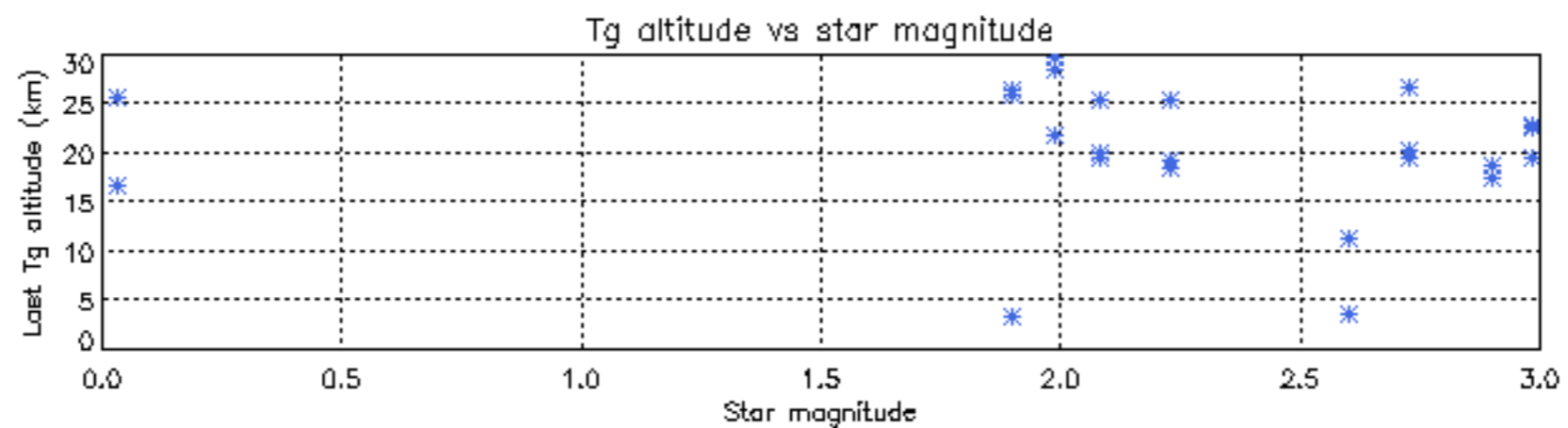
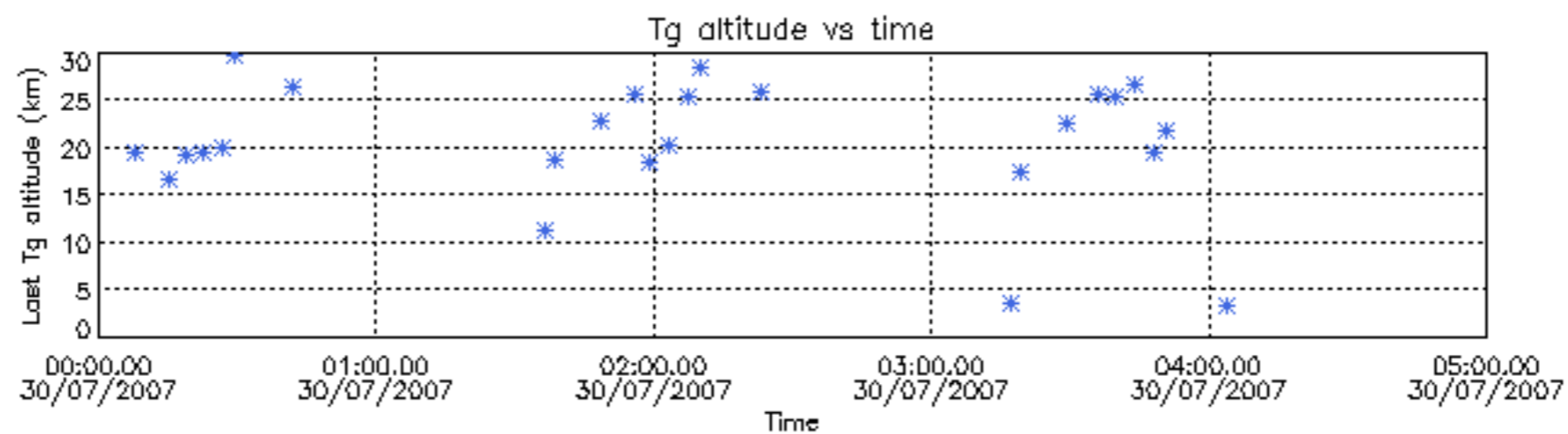


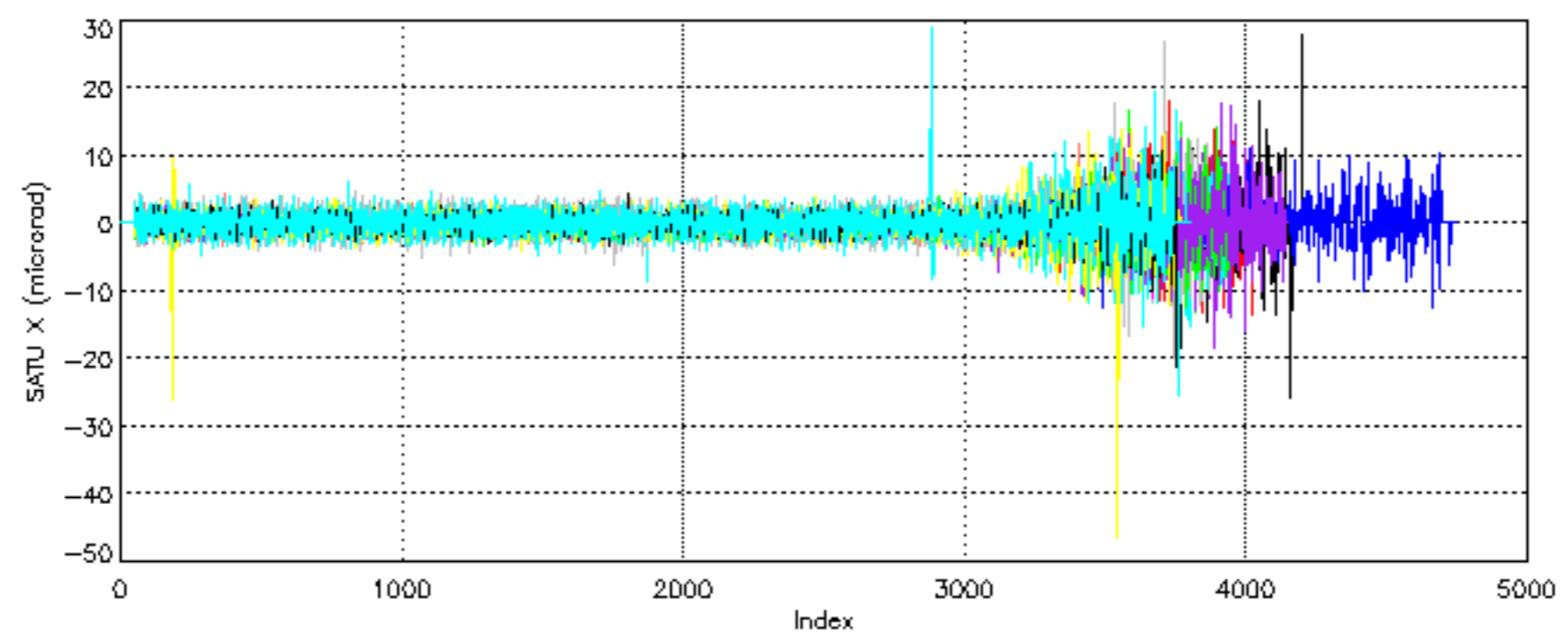
Tangent altitude at which the star is lost

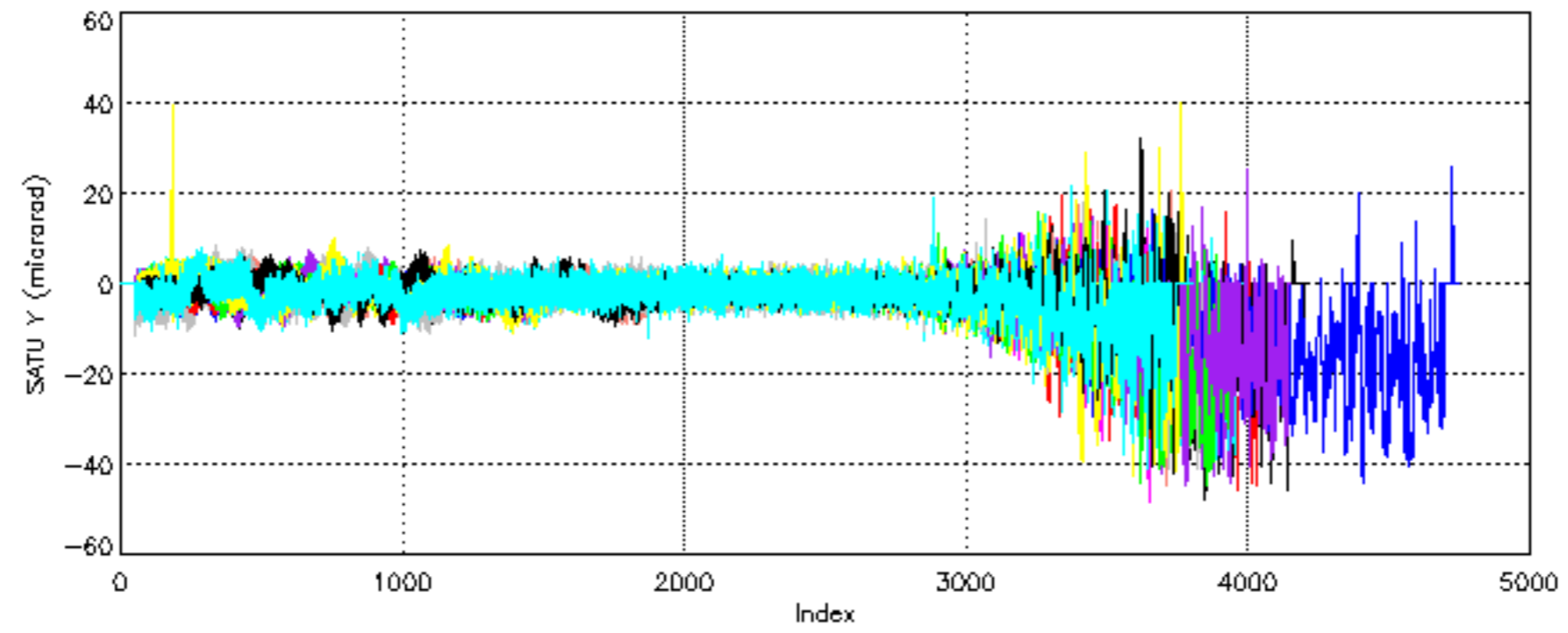


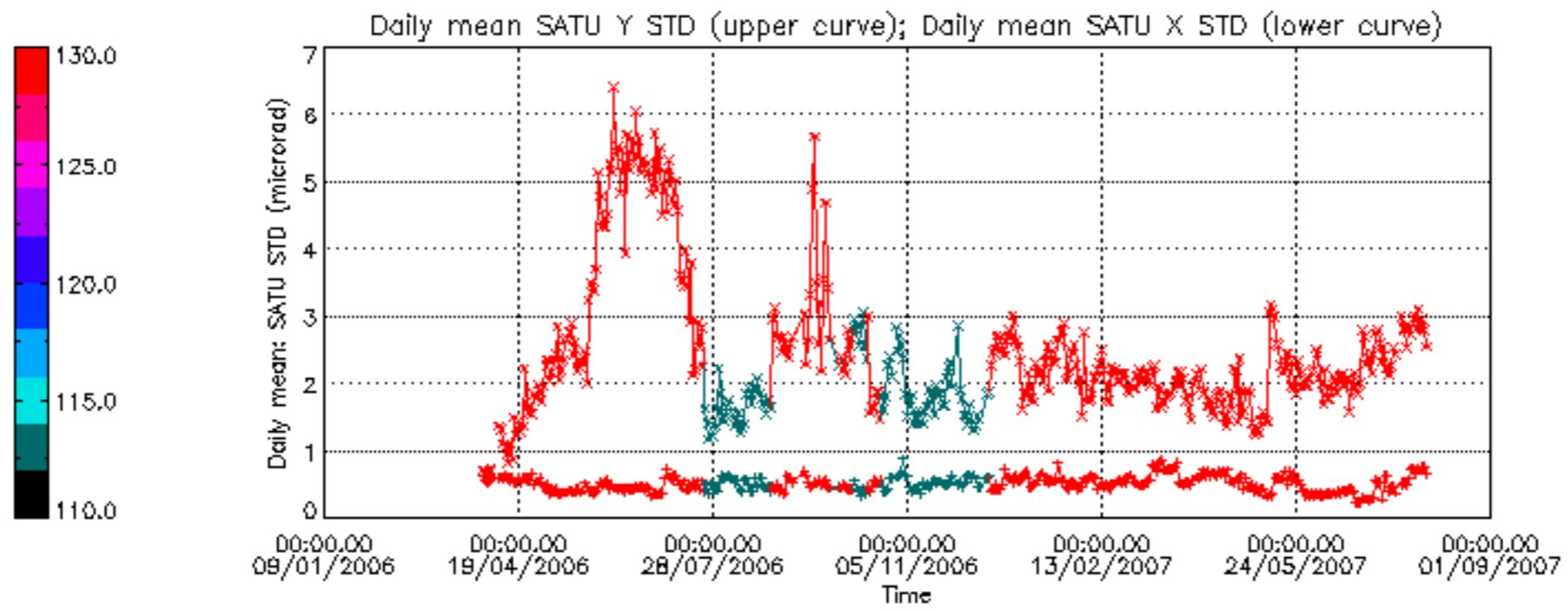


Tangent altitude at which the star is lost











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1; -836.3; 01-JUL-2007 01:09:45; Dark ; 37.0; 165; 34Gam Eri ; 2.95; 3200;occ; 74; 0;27883  
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 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884  
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884  
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884  
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884  
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884  
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884  
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884  
 10; 1642.0; 01-JUL-2007 01:51:03; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27884  
 11; 1982.2; 01-JUL-2007 01:56:43; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;27884  
 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884  
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 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884  
 15; 2810.0; 01-JUL-2007 02:10:31; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27884  
 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884  
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884  
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 2; -1869.8; 01-JUL-2007 02:33:07; Bright; 32.5; 175; 39Del Per ; 3.01; 19400;occ; 65; 0;27884  
 3; -836.2; 01-JUL-2007 02:50:21; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27884  
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 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885  
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885  
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885  
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 11; 1354.8; 01-JUL-2007 03:26:52; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;27885  
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 13; 1982.3; 01-JUL-2007 03:37:19; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27885  
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 15; 2283.4; 01-JUL-2007 03:42:20; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;27885  
 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885  
 17; 2810.0; 01-JUL-2007 03:51:07; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27885  
 18; 2952.5; 01-JUL-2007 03:53:30; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;27885  
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 6; 481.7; 01-JUL-2007 04:52:55; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27886  
 7; 743.9; 01-JUL-2007 04:57:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27886  
 8; 1062.5; 01-JUL-2007 05:02:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27886  
 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886  
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 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886  
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 5; 35.1; 01-JUL-2007 06:26:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27887  
 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887

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8; 1062.7; 01-JUL-2007 06:43:12; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27887
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17; 2809.7; 01-JUL-2007 07:12:19; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27887
18; 2952.5; 01-JUL-2007 07:14:42; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27887
19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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3; 1272.3; 01-JUL-2007 20:11:29; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;27895
4; 1357.1; 01-JUL-2007 20:12:54; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27895
5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
8; 2284.8; 01-JUL-2007 20:28:21; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;27895
9; 2448.5; 01-JUL-2007 20:31:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27895
10; 2808.4; 01-JUL-2007 20:37:05; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27895
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12; 3192.5; 01-JUL-2007 20:43:29; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27895
13; 3445.4; 01-JUL-2007 20:47:42; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27895
14; 4131.0; 01-JUL-2007 20:59:08; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;27895
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5; 748.9; 01-JUL-2007 21:43:21; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27896
6; 1064.5; 01-JUL-2007 21:48:37; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;27896
7; 1172.7; 01-JUL-2007 21:50:25; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;27896
8; 1272.5; 01-JUL-2007 21:52:05; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27896
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10; 1644.0; 01-JUL-2007 21:58:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27896
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12; 2121.8; 01-JUL-2007 22:06:14; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;27896
13; 2284.9; 01-JUL-2007 22:08:57; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27896
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13;	4305.2;	06-JUL-2007	20:04:33;	Bright;	;	34.5;	149;	45Eps Per	;	2.89;	30000;occ;	69;	0;	27966
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8;	532.0;	07-JUL-2007	03:24:39;	Dark	;	43.5;	148;	Alp Tuc	;	2.88;	4100;occ;	87;	0;	27971
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13; 902.4; 30-JUL-2007 03:07:50; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;28300
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13; 902.7; 30-JUL-2007 04:48:26; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;28301
14; 1407.8; 30-JUL-2007 04:56:51; Dark ; 41.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 82; 0;28301
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6; 3441.5; 30-JUL-2007 08:51:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28303
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19; 6939.9; 30-JUL-2007 13:11:27; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28305
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