

# GOMOS Daily Report 17-AUG-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	20AUG2007 11:43:08
Data source version	GOMOS/5.00
Start time of products	17-08-2007 (17AUG2007 00:00:00)
Stop time of products	18-08-2007 (18AUG2007 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)

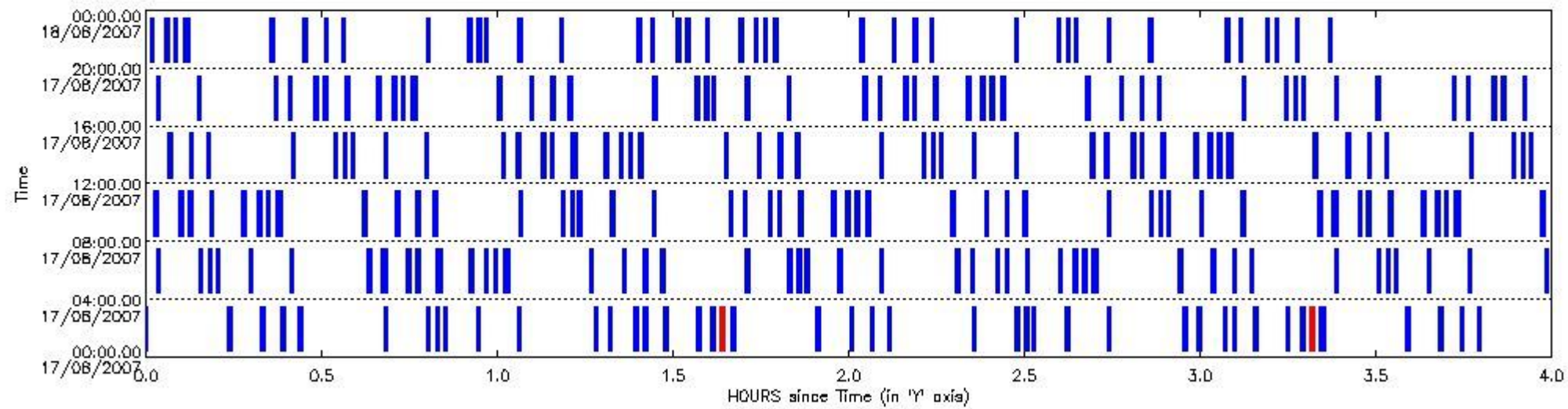
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

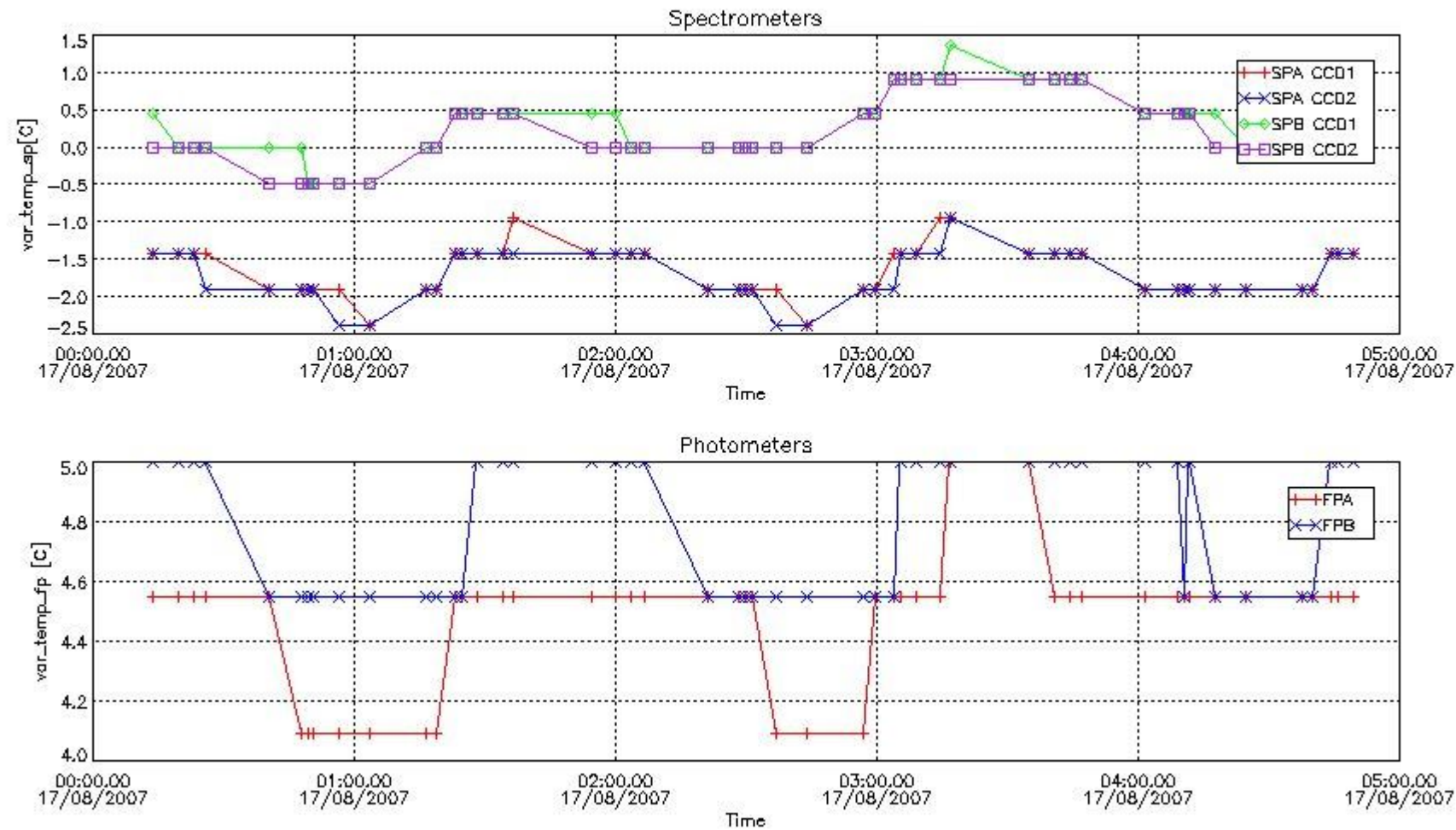
UTC start time	Star name	Star ID	Orbit
17-AUG-2007 01:37:56	1ZetCMa	177	28556
17-AUG-2007 03:18:32	1ZetCMa	177	28557

### 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_1PNPDE20070817_001345_000000462060_00446_28556_0405.N1	17-AUG-2007 00:13:45	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28556	No
2	GOM_TRA_1PNPDE20070817_001928_000000412060_00446_28556_0406.N1	17-AUG-2007 00:19:28	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	28556	No
3	GOM_TRA_1PNPDE20070817_002302_000000402060_00446_28556_0407.N1	17-AUG-2007 00:23:02	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28556	No
4	GOM_TRA_1PNPDE20070817_002600_000000402060_00446_28556_0408.N1	17-AUG-2007 00:26:00	Straylight	40.000	172	Gam Gru	3.0030	13100.	80	28556	No
5	GOM_TRA_1PNPDE20070817_004031_000000362060_00446_28556_0409.N1	17-AUG-2007 00:40:31	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	28556	No
6	GOM_TRA_1PNPDE20070817_004746_000000392060_00446_28556_0410.N1	17-AUG-2007 00:47:46	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	28556	No
7	GOM_TRA_1PNPDE20070817_004922_000000382060_00446_28556_0411.N1	17-AUG-2007 00:49:22	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	28556	No
8	GOM_TRA_1PNPDE20070817_005040_000000342060_00446_28556_0412.N1	17-AUG-2007 00:50:40	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28556	No
9	GOM_TRA_1PNPDE20070817_005620_000000382060_00446_28556_0413.N1	17-AUG-2007 00:56:20	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	28556	No

10	GOM_TRA_1PNPDE20070817_010323_000000352060_00446_28556_0414.N1	17-AUG-2007 01:03:23	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28556	No
11	GOM_TRA_1PNPDE20070817_011626_000000382060_00446_28556_0415.N1	17-AUG-2007 01:16:26	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	28556	No
12	GOM_TRA_1PNPDE20070817_011853_000000392060_00446_28556_0416.N1	17-AUG-2007 01:18:53	Bright	38.500	107	37The Aur	2.6490	11000.	77	28556	No
13	GOM_TRA_1PNPDE20070817_012313_000000482060_00446_28556_0417.N1	17-AUG-2007 01:23:13	Twilight	47.500	151	13Mu Gem	2.8900	3000.0	95	28556	No
14	GOM_TRA_1PNPDE20070817_012448_000000422060_00446_28556_0418.N1	17-AUG-2007 01:24:48	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	28556	No
15	GOM_TRA_1PNPDE20070817_012820_000000492060_00446_28556_0419.N1	17-AUG-2007 01:28:20	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	28556	No
16	GOM_TRA_1PNPDE20070817_013356_000000412060_00446_28556_0546.N1	17-AUG-2007 01:33:56	Dark	41.000	1	9Alp CMa	-1.4400	11000.	82	28556	No
17	GOM_TRA_1PNPDE20070817_013624_000000462060_00446_28556_0547.N1	17-AUG-2007 01:36:24	Dark	45.500	101	11Alp Lep	2.5820	7000.0	91	28556	No
18	GOM_TRA_1PNPDE20070817_015422_000000422060_00447_28557_0548.N1	17-AUG-2007 01:54:22	Dark	41.500	9	Alp Eri	0.45300	24000.	83	28557	No
19	GOM_TRA_1PNPDE20070817_020004_000000372060_00447_28557_0549.N1	17-AUG-2007 02:00:04	Straylight	37.000	148	Alp Tuc	2.8780	4100.0	74	28557	No
20	GOM_TRA_1PNPDE20070817_020338_000000402060_00447_28557_0550.N1	17-AUG-2007 02:03:38	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28557	No
21	GOM_TRA_1PNPDE20070817_020636_000000402060_00447_28557_0551.N1	17-AUG-2007 02:06:36	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	28557	No
22	GOM_TRA_1PNPDE20070817_022107_000000372060_00447_28557_0552.N1	17-AUG-2007 02:21:07	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28557	No
23	GOM_TRA_1PNPDE20070817_022822_000000372060_00447_28557_0553.N1	17-AUG-2007 02:28:22	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	28557	No
24	GOM_TRA_1PNPDE20070817_022958_000000382060_00447_28557_0554.N1	17-AUG-2007 02:29:58	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	28557	No
25	GOM_TRA_1PNPDE20070817_023116_000000362060_00447_28557_0555.N1	17-AUG-2007 02:31:16	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	28557	No
26	GOM_TRA_1PNPDE20070817_023655_000000382060_00447_28557_0556.N1	17-AUG-2007 02:36:55	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28557	No
27	GOM_TRA_1PNPDE20070817_024359_000000332060_00447_28557_0557.N1	17-AUG-2007 02:43:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28557	No
28	GOM_TRA_1PNPDE20070817_025702_000000382060_00447_28557_0713.N1	17-AUG-2007 02:57:02	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	28557	No
29	GOM_TRA_1PNPDE20070817_025929_000000392060_00447_28557_0714.N1	17-AUG-2007 02:59:29	Bright	39.000	107	37The Aur	2.6490	11000.	78	28557	No
30	GOM_TRA_1PNPDE20070817_030349_000000452060_00447_28557_0715.N1	17-AUG-2007 03:03:49	Twilight	44.500	151	13Mu Gem	2.8900	3000.0	89	28557	No
31	GOM_TRA_1PNPDE20070817_030524_000000392060_00447_28557_0716.N1	17-AUG-2007 03:05:24	Twilight	39.000	44	24Gam Gem	1.9280	11000.	78	28557	No
32	GOM_TRA_1PNPDE20070817_030856_000000602060_00447_28557_0717.N1	17-AUG-2007 03:08:56	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	28557	No
33	GOM_TRA_1PNPDE20070817_031432_000000352060_00447_28557_0718.N1	17-AUG-2007 03:14:32	Dark	34.500	1	9Alp CMa	-1.4400	11000.	69	28557	No
34	GOM_TRA_1PNPDE20070817_031701_000000472060_00447_28557_0719.N1	17-AUG-2007 03:17:01	Dark	46.500	101	11Alp Lep	2.5820	7000.0	93	28557	No
35	GOM_TRA_1PNPDE20070817_033458_000000472060_00448_28558_0720.N1	17-AUG-2007 03:34:58	Dark	47.000	9	Alp Eri	0.45300	24000.	94	28558	No
36	GOM_TRA_1PNPDE20070817_034041_000000392060_00448_28558_0721.N1	17-AUG-2007 03:40:41	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28558	No
37	GOM_TRA_1PNPDE20070817_034415_000000412060_00448_28558_0722.N1	17-AUG-2007 03:44:15	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	28558	No
38	GOM_TRA_1PNPDE20070817_034713_000000412060_00448_28558_0723.N1	17-AUG-2007 03:47:13	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	28558	No
39	GOM_TRA_1PNPDE20070817_040143_000000382060_00448_28558_0724.N1	17-AUG-2007 04:01:43	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	28558	No
40	GOM_TRA_1PNPDE20070817_040858_000000382060_00448_28558_0725.N1	17-AUG-2007 04:08:58	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28558	No
41	GOM_TRA_1PNPDE20070817_041034_000000372060_00448_28558_0726.N1	17-AUG-2007 04:10:34	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28558	No
42	GOM_TRA_1PNPDE20070817_041152_000000342060_00448_28558_0727.N1	17-AUG-2007 04:11:52	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28558	No
43	GOM_TRA_1PNPDE20070817_041731_000000382060_00448_28558_0728.N1	17-AUG-2007 04:17:31	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	28558	No
44	GOM_TRA_1PNPDE20070817_042435_000000362060_00448_28558_0729.N1	17-AUG-2007 04:24:35	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28558	No
45	GOM_TRA_1PNPDE20070817_043738_000000442060_00448_28558_0854.N1	17-AUG-2007 04:37:38	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	28558	No
46	GOM_TRA_1PNPDE20070817_044005_000000582060_00448_28558_0855.N1	17-AUG-2007 04:40:05	Bright	58.000	107	37The Aur	2.6490	11000.	116	28558	No
47	GOM_TRA_1PNPDE20070817_044425_000000472060_00448_28558_0856.N1	17-AUG-2007 04:44:25	Twilight	46.500	151	13Mu Gem	2.8900	3000.0	93	28558	No
48	GOM_TRA_1PNPDE20070817_044601_000000432060_00448_28558_0857.N1	17-AUG-2007 04:46:01	Twilight	42.500	44	24Gam Gem	1.9280	11000.	85	28558	No
49	GOM_TRA_1PNPDE20070817_044932_000000562060_00448_28558_0858.N1	17-AUG-2007 04:49:32	Dark	55.500	14	58Alp Ori	0.87000	3000.0	111	28558	No

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



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

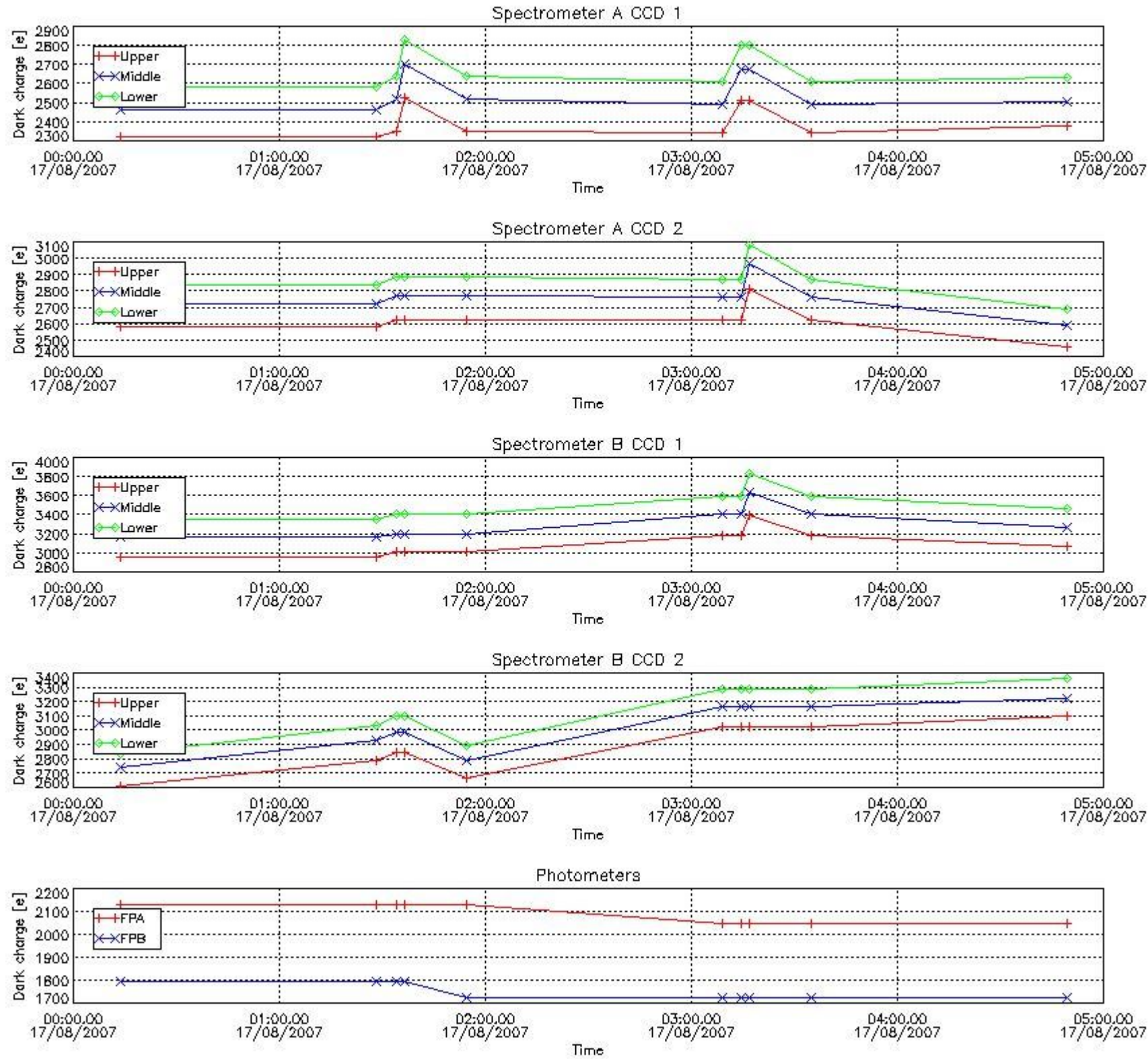
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





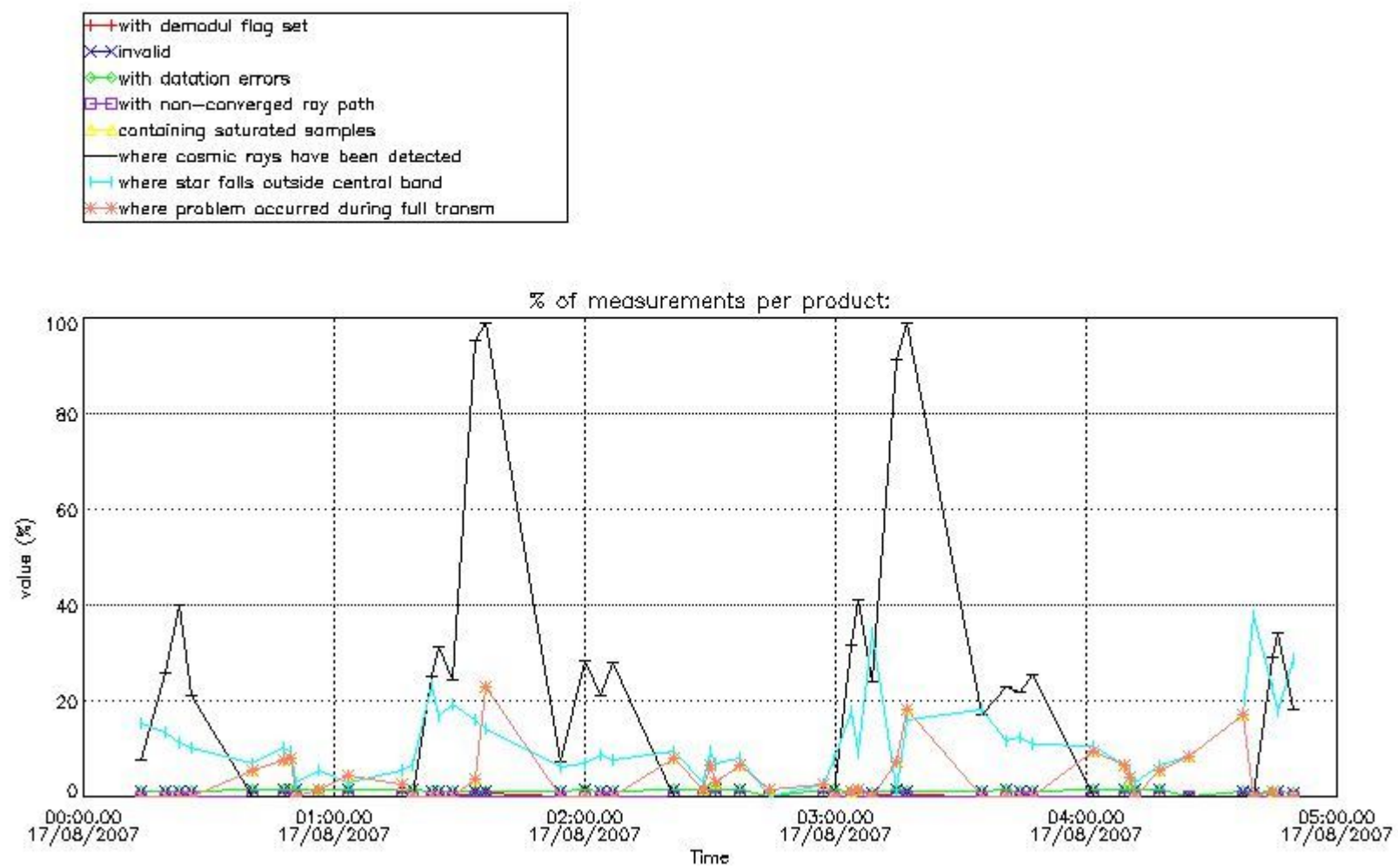
## 5. Demodulation flag and quality information monitoring

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:

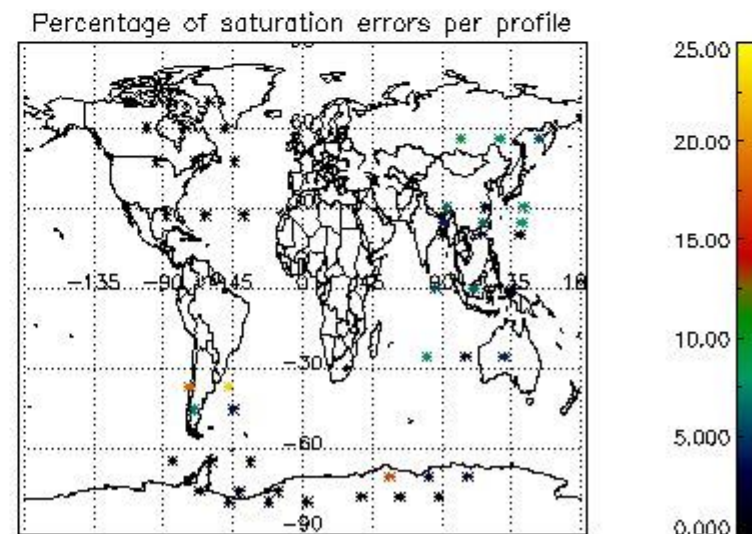
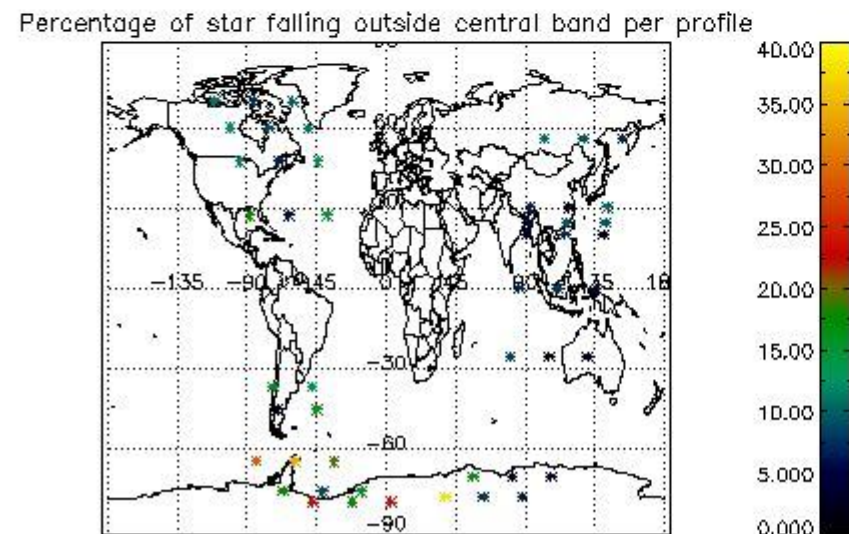
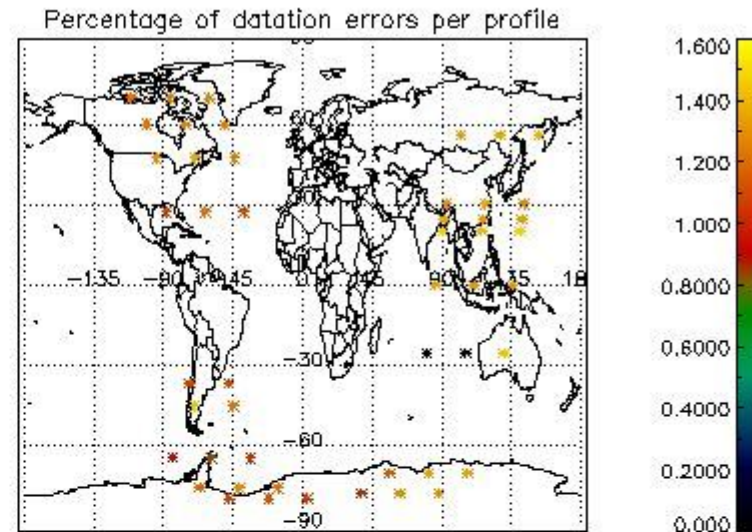
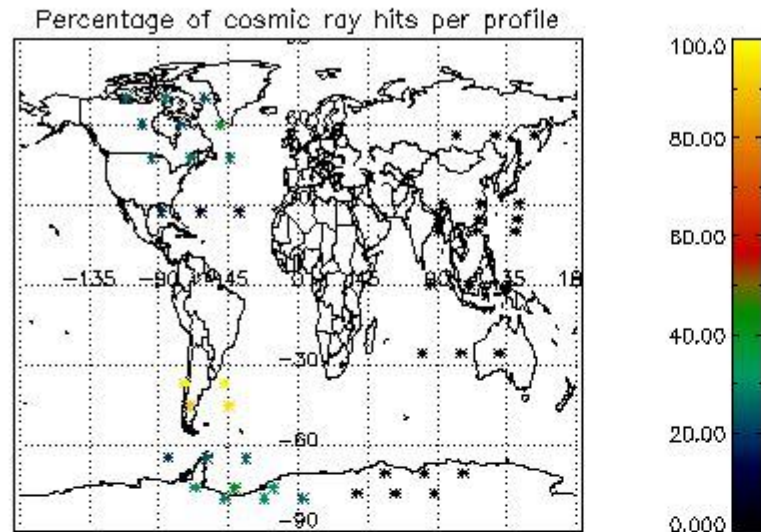
At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





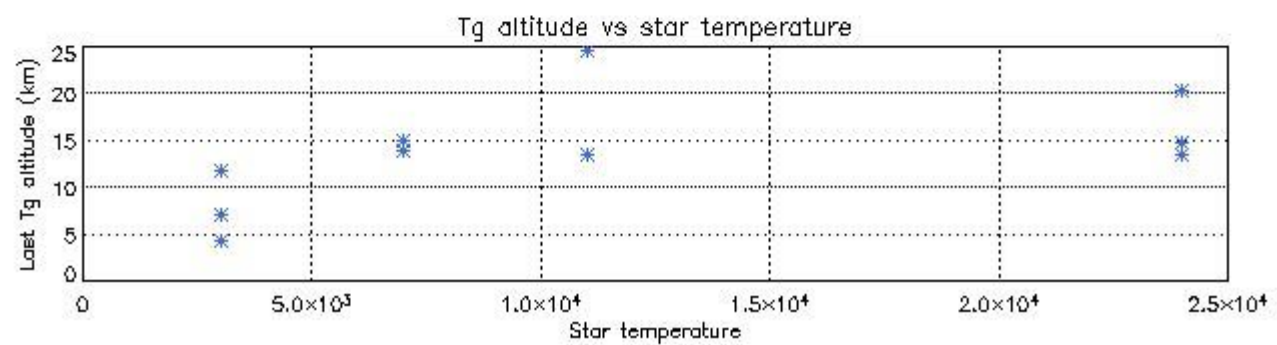
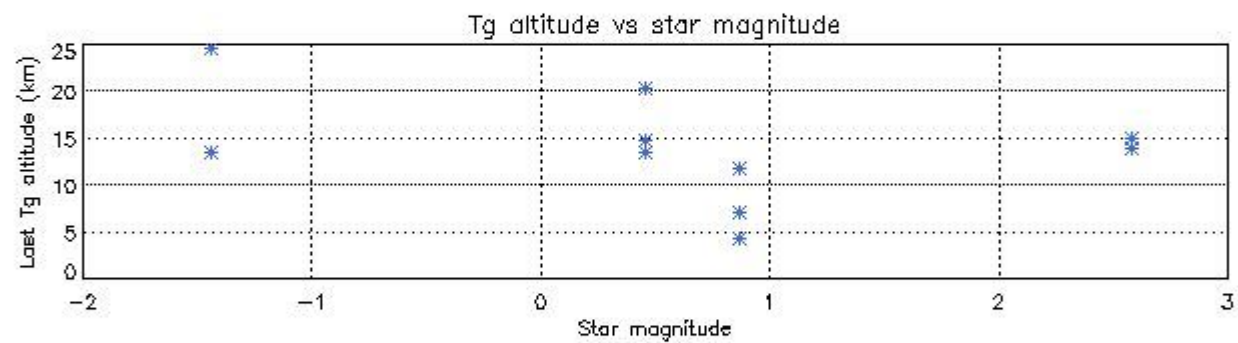
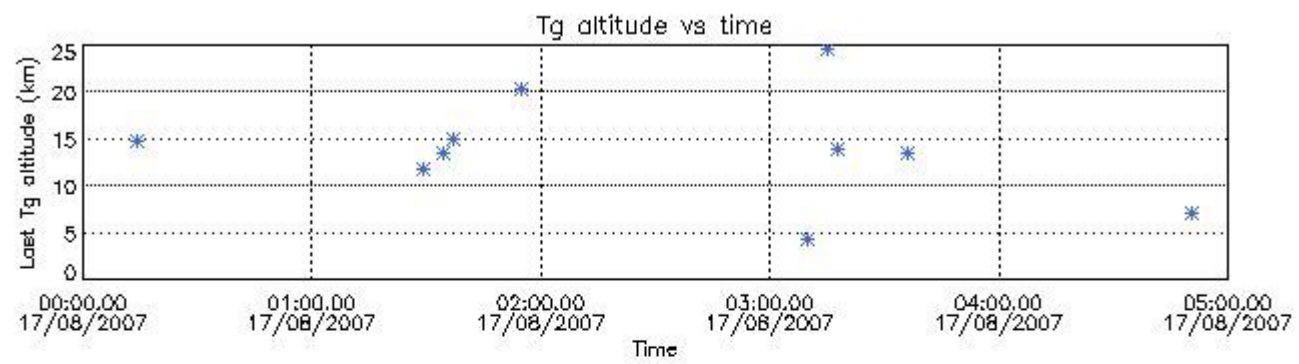
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.840	20.480	NaN
St. deviation:	5.7892	4.4109	NaN
Maximum:	24.638	27.144	NaN
Minimum:	4.3620	4.3123	NaN
Number of data:	10.000	24.000	NaN

### 6.2 Plot for DARK limb products

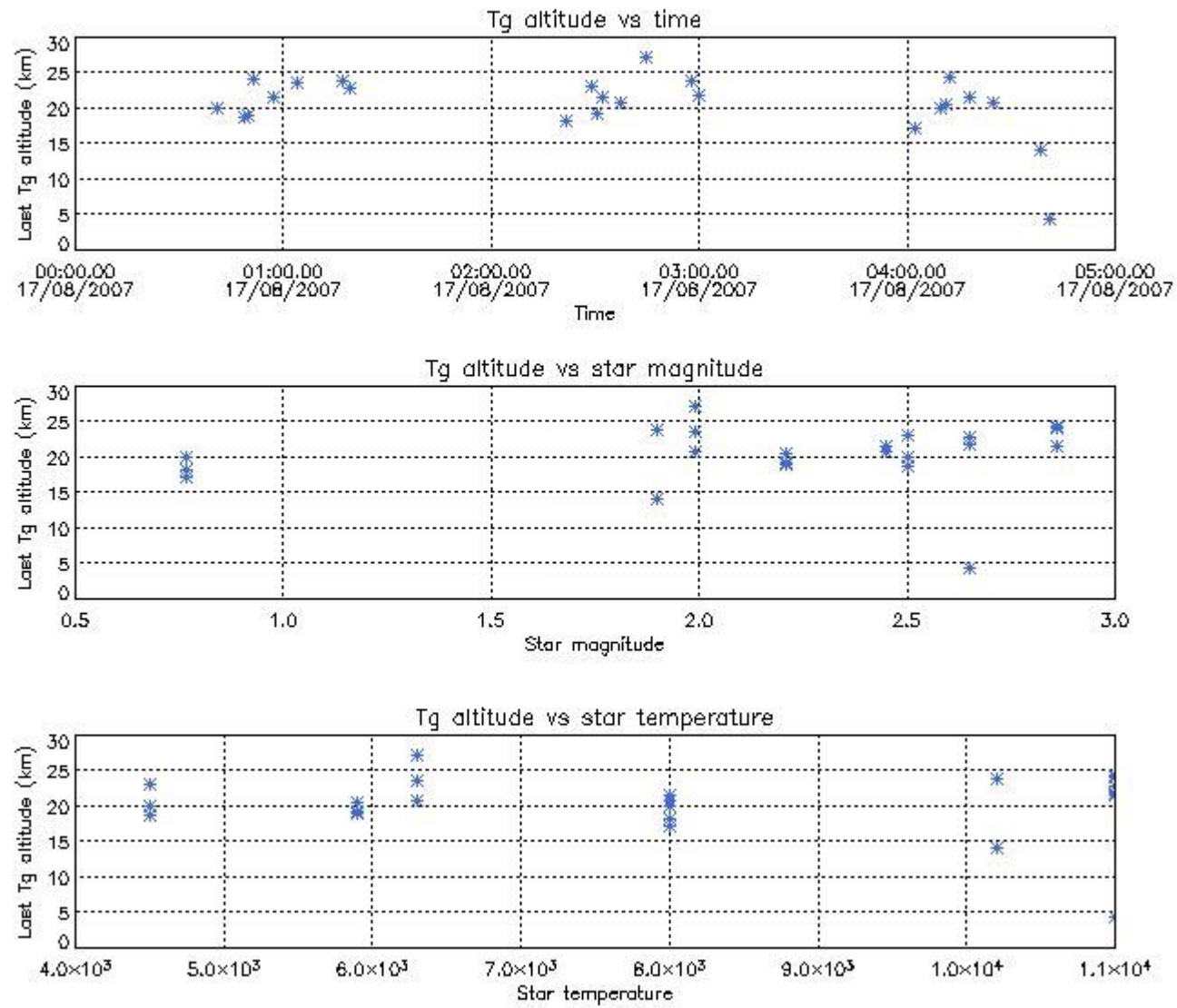
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

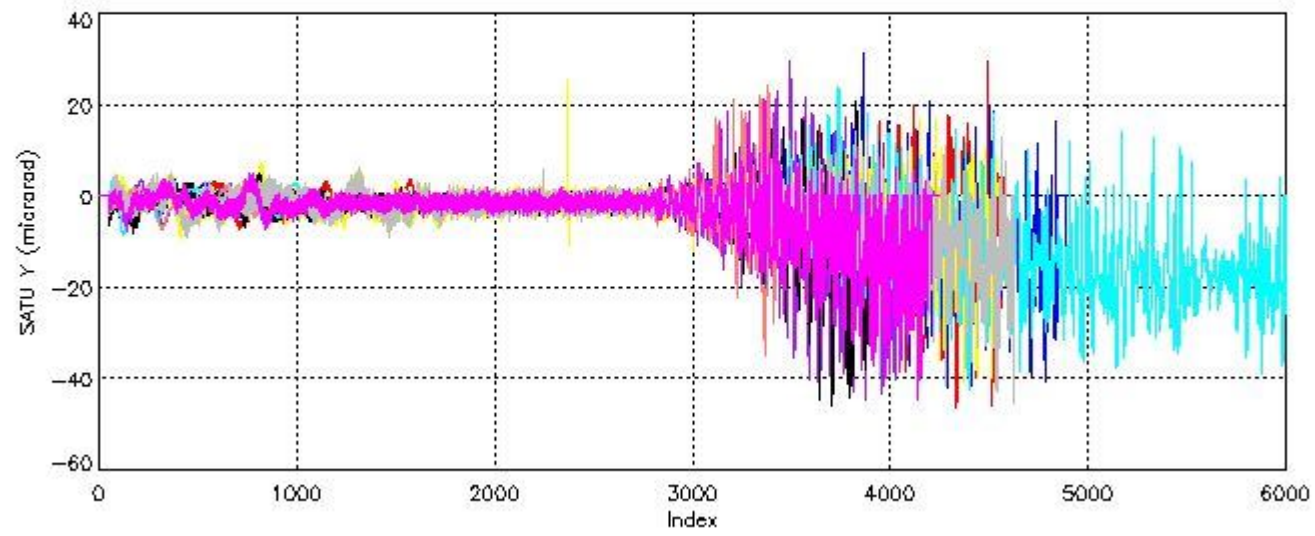
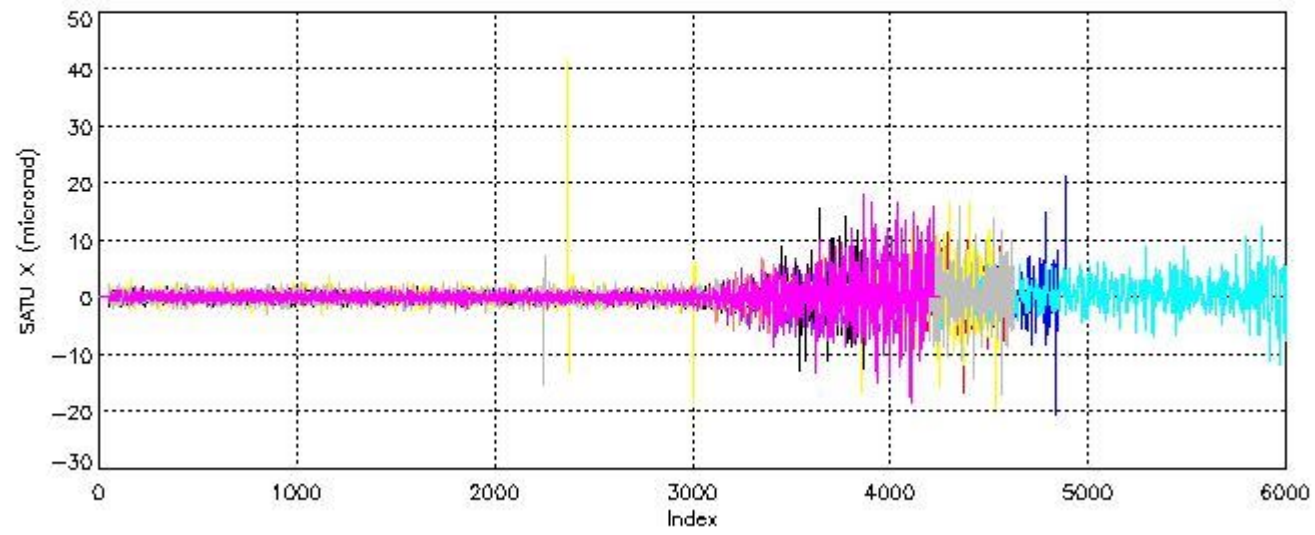


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13811	-1.0766	0.12293	-1.1158
St. deviation:	0.31089	2.1403	0.78179	2.4068
Maximum:	3.0000	7.5000	5.2000	8.1000
Minimum:	-2.9000	-10.800	-5.1000	-11.300

Number of data:	9900.0	9900.0	20050.	20050.
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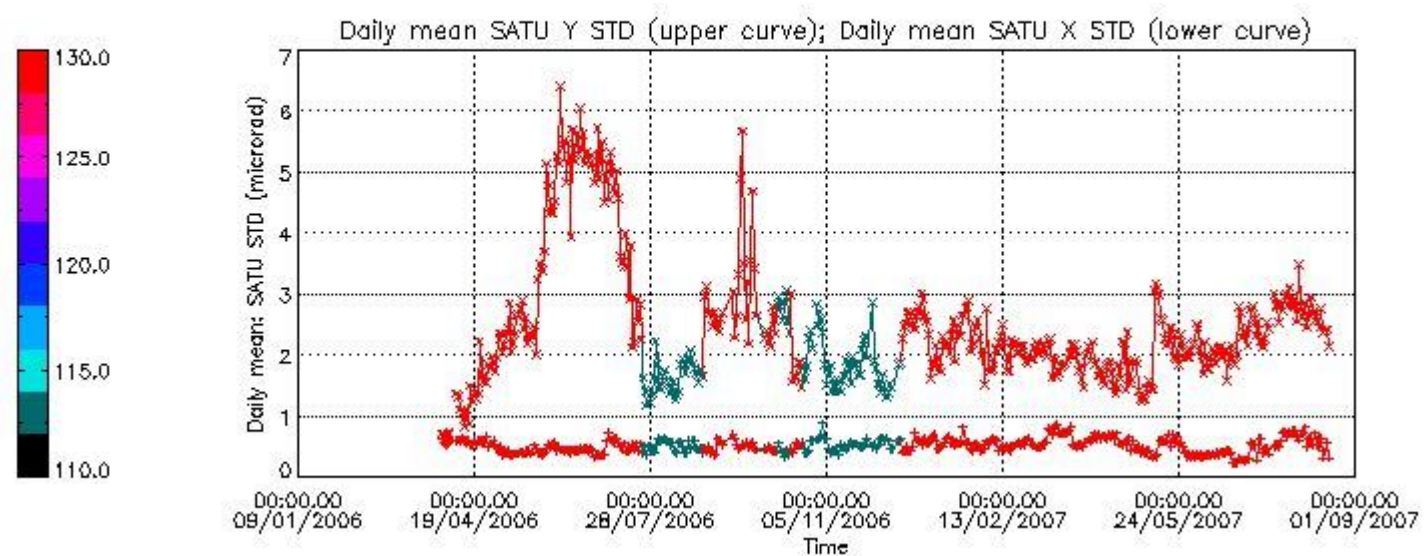
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

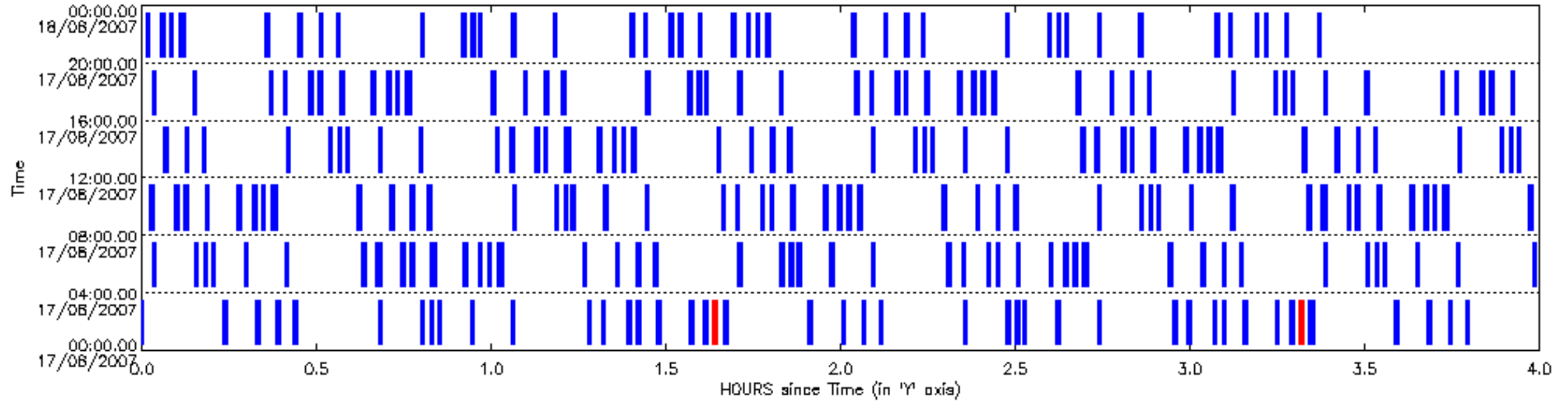


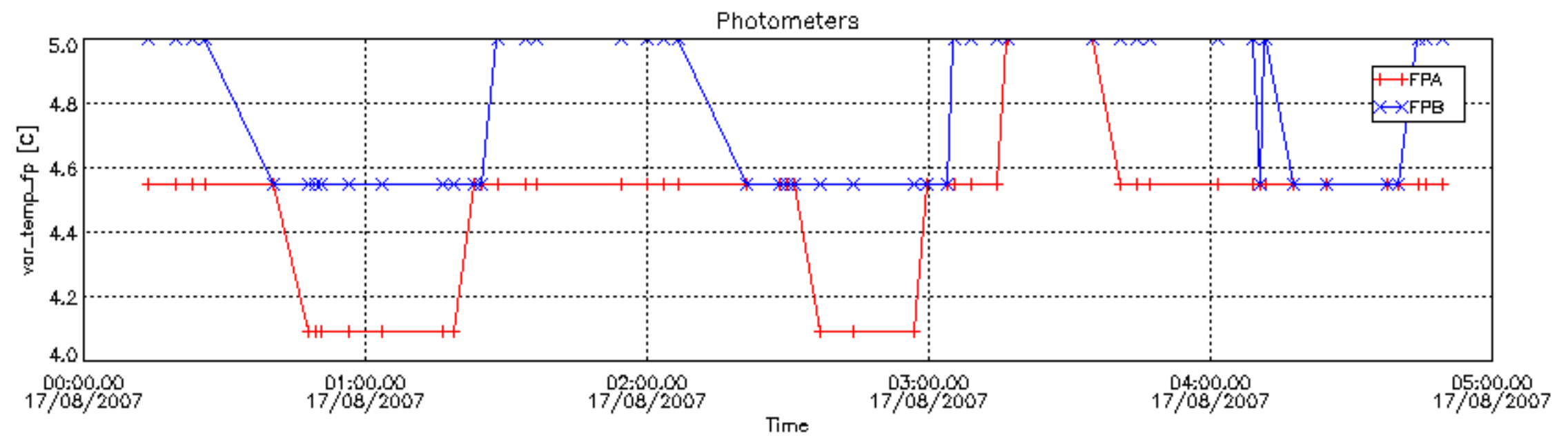
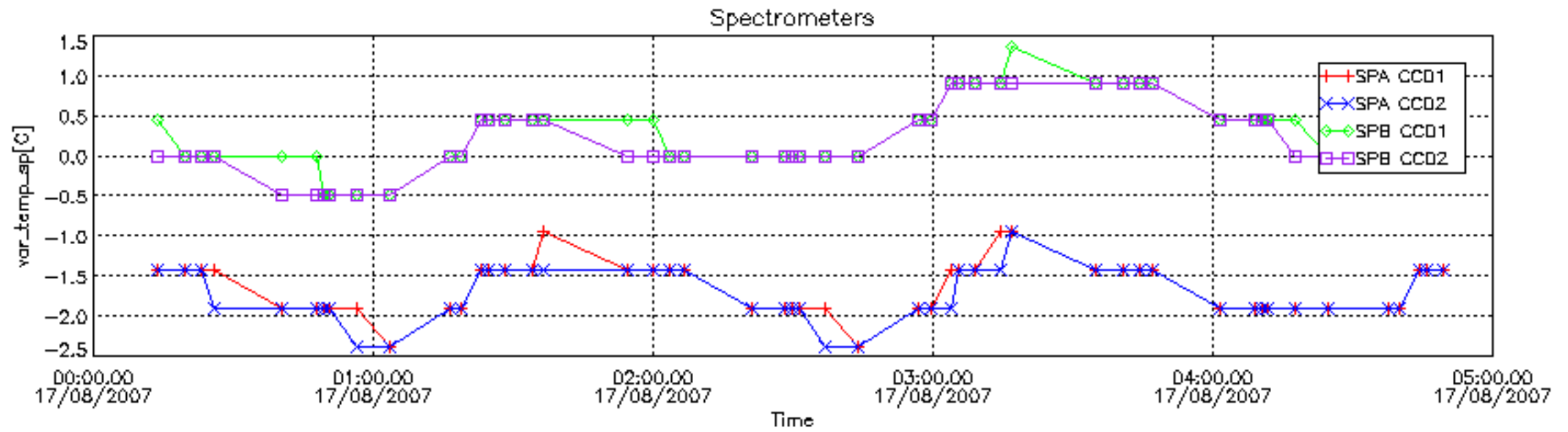
### 8. Auxiliary Data Files used for the production reported in section 2.4

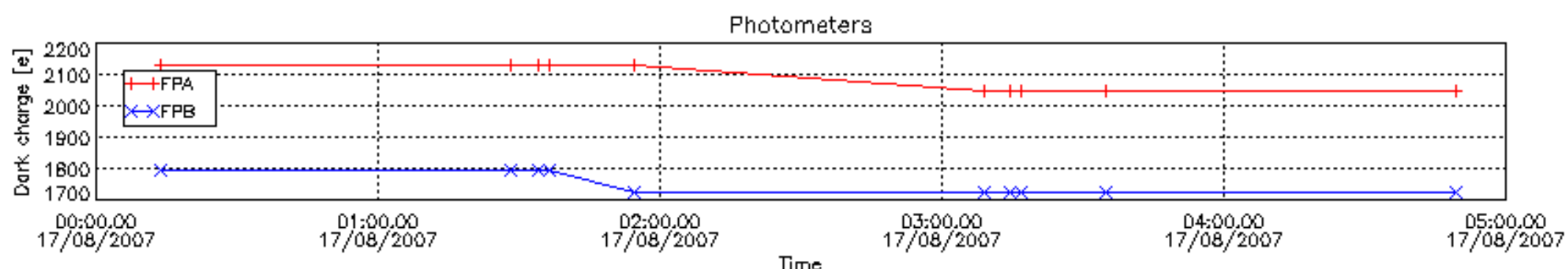
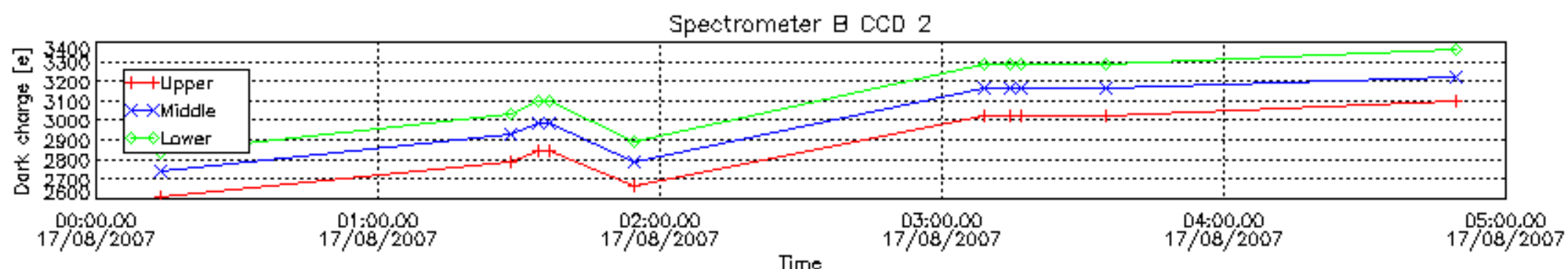
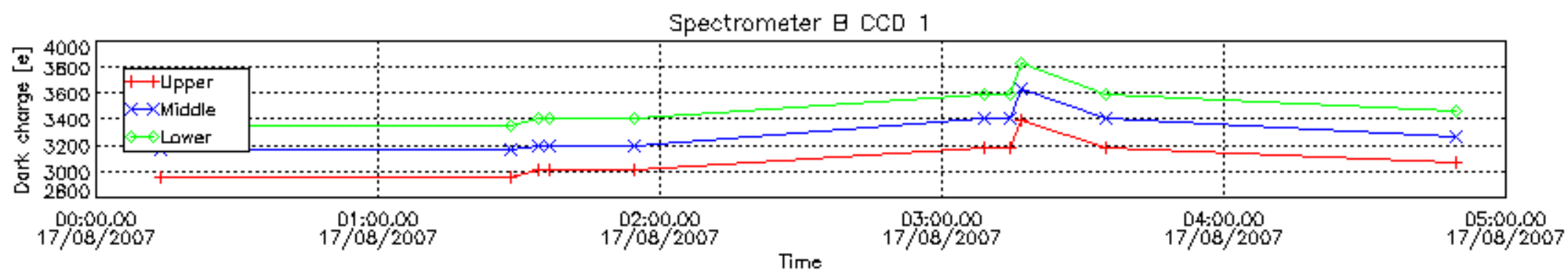
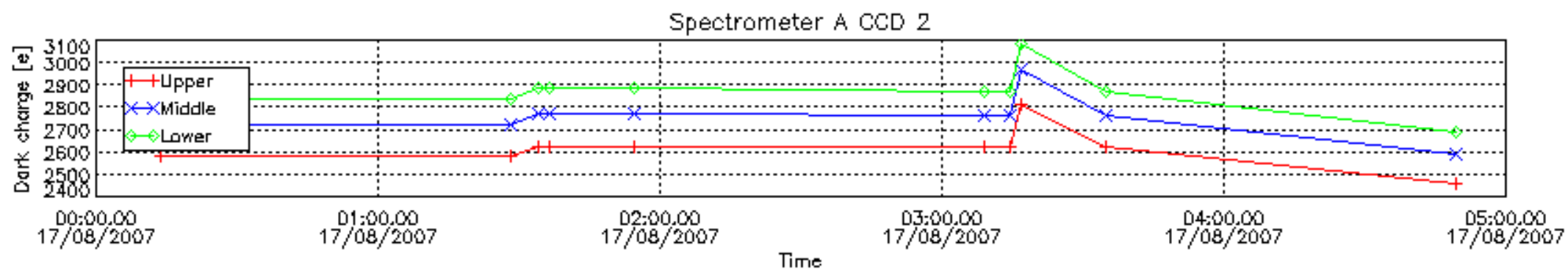
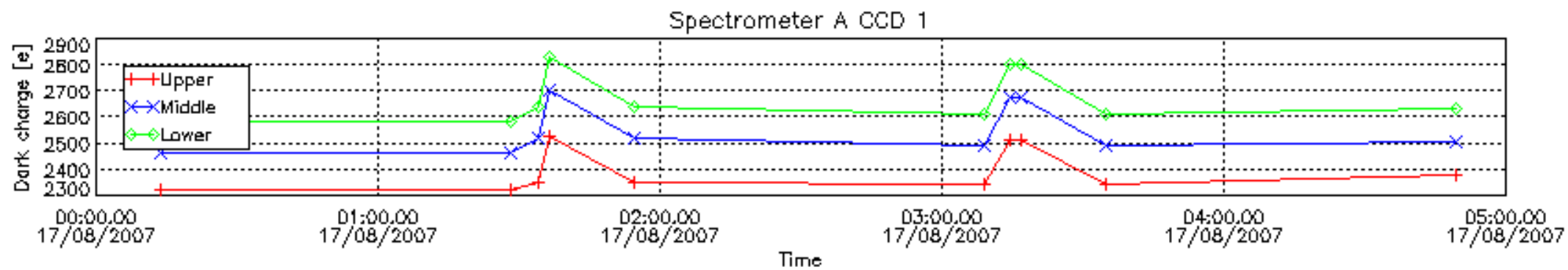
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-AUG-2007 00:13:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070814_104912_20070813_000000_20100101_000000	1	17-AUG-2007 00:13:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-AUG-2007 00:13:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-AUG-2007 00:13:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-AUG-2007 00:13:45
ECMWF_FILE	AUX_ECF_AXNECM20070816_062113_20070816_210000_20070817_090000	1	17-AUG-2007 00:13:45
ECMWF_FILE	AUX_ECF_AXNECM20070816_182116_20070817_030000_20070817_150000	45	17-AUG-2007 04:37:38
OPTIONAL_ECMWF_FILE	MISSING	1	17-AUG-2007 00:13:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070816_221117_000057382060_00444_28554_3984.N1	1	17-AUG-2007 00:13:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070816_235214_000057382060_00445_28555_3985.N1	16	17-AUG-2007 01:33:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070817_012752_000041442060_00446_28556_3986.N1	28	17-AUG-2007 02:57:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070817_024215_000057382060_00447_28557_3987.N1	45	17-AUG-2007 04:37:38

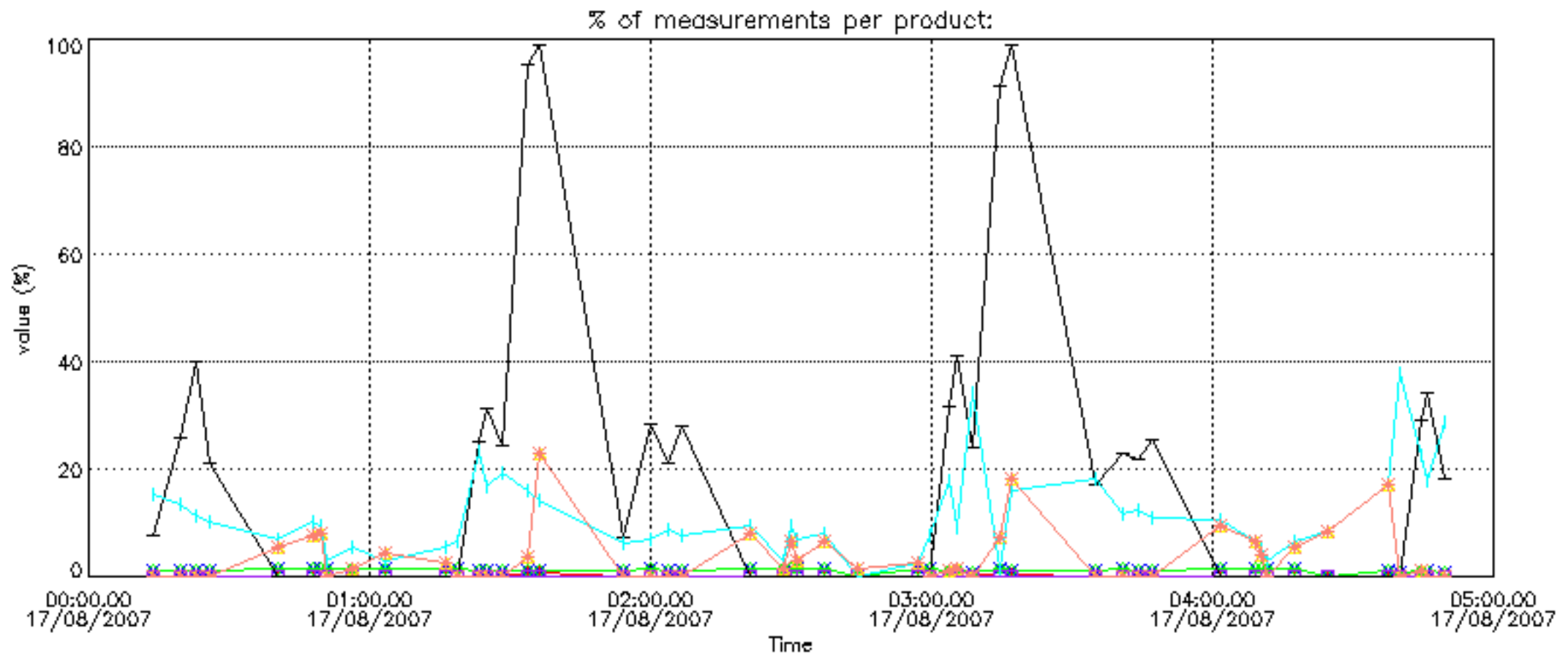




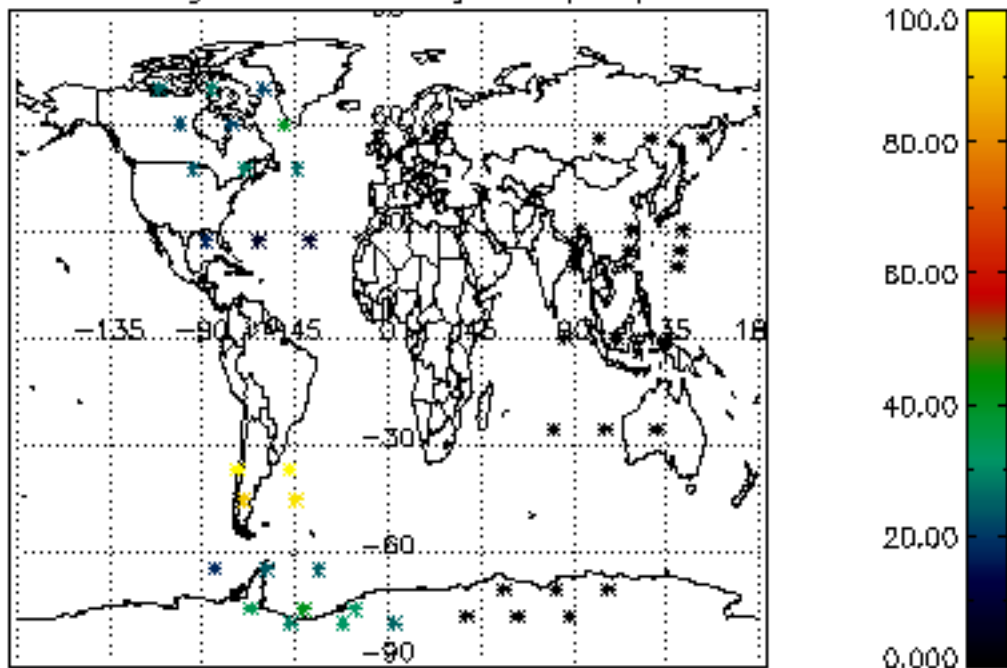




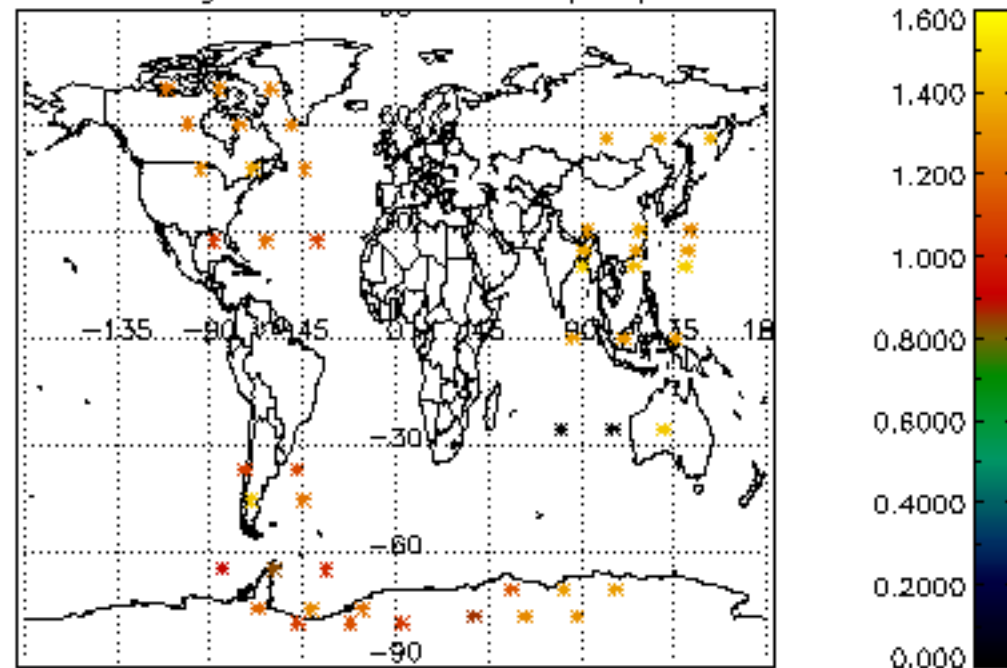




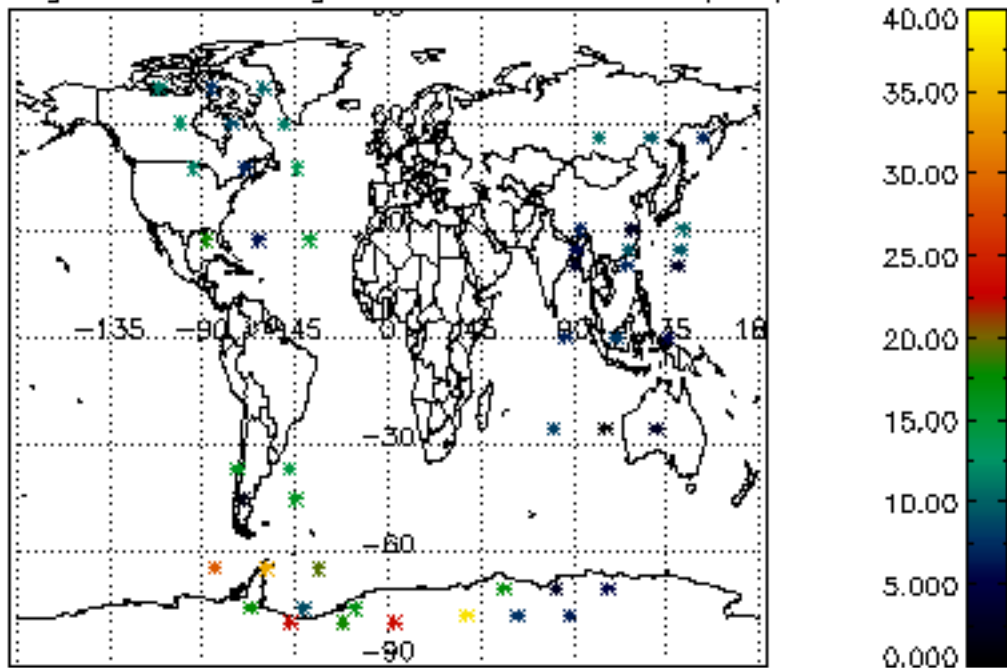
Percentage of cosmic ray hits per profile



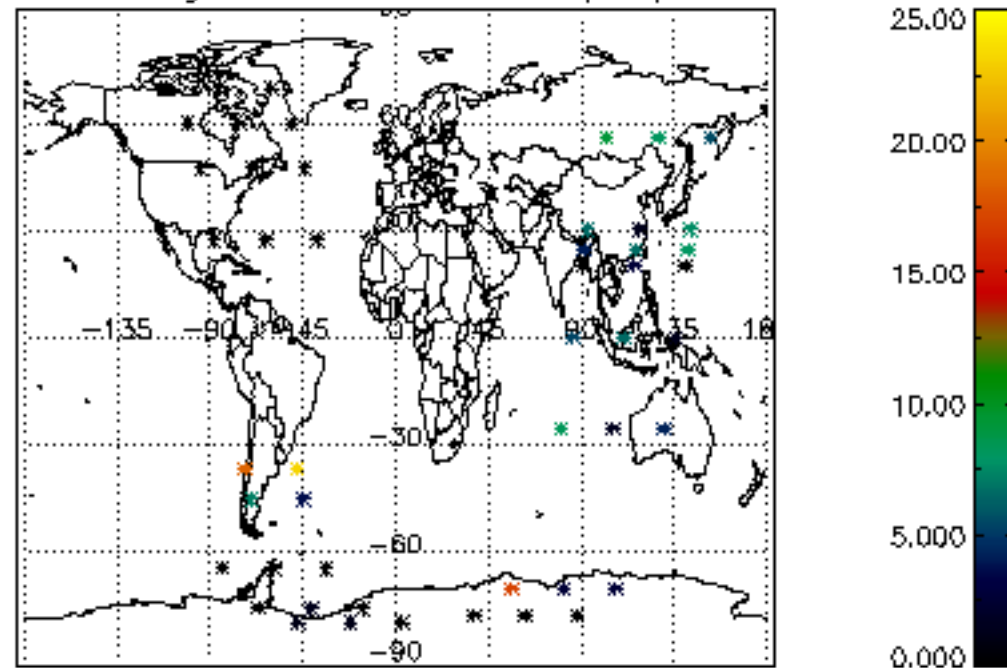
Percentage of datation errors per profile



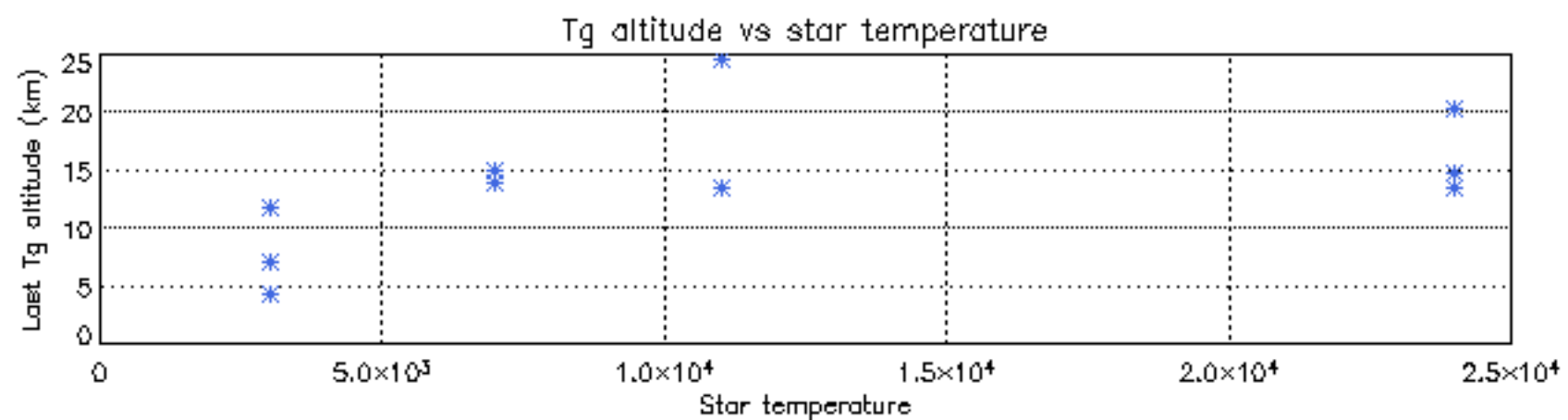
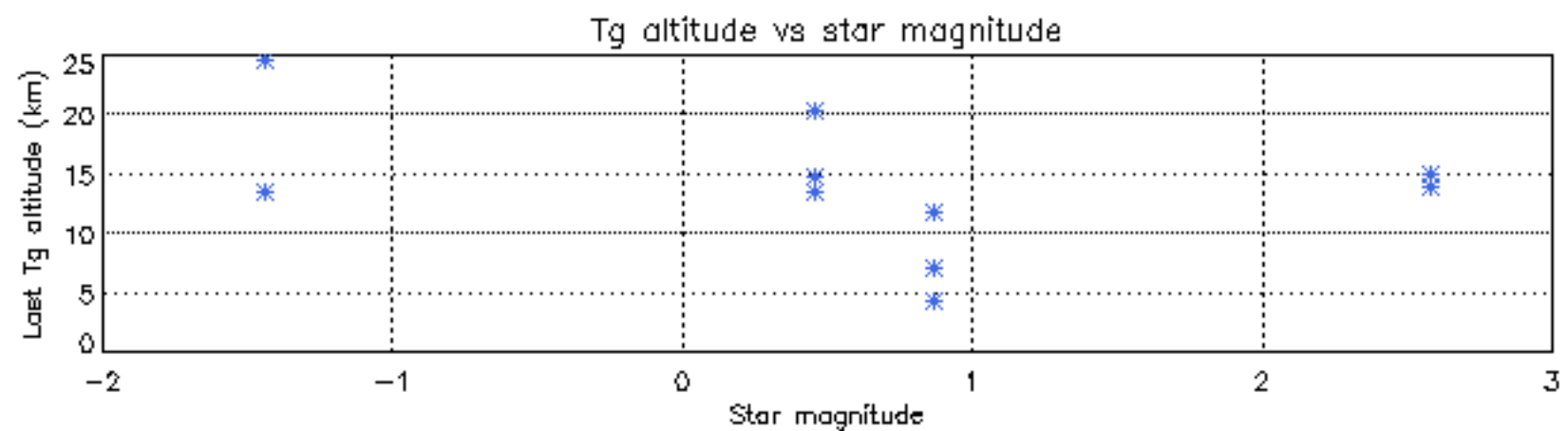
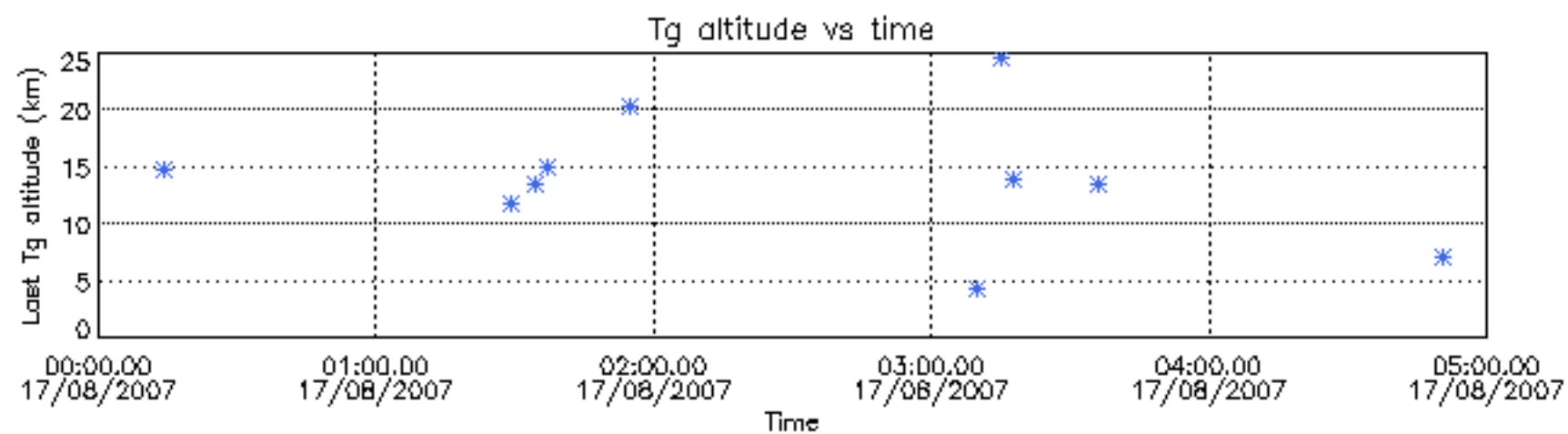
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

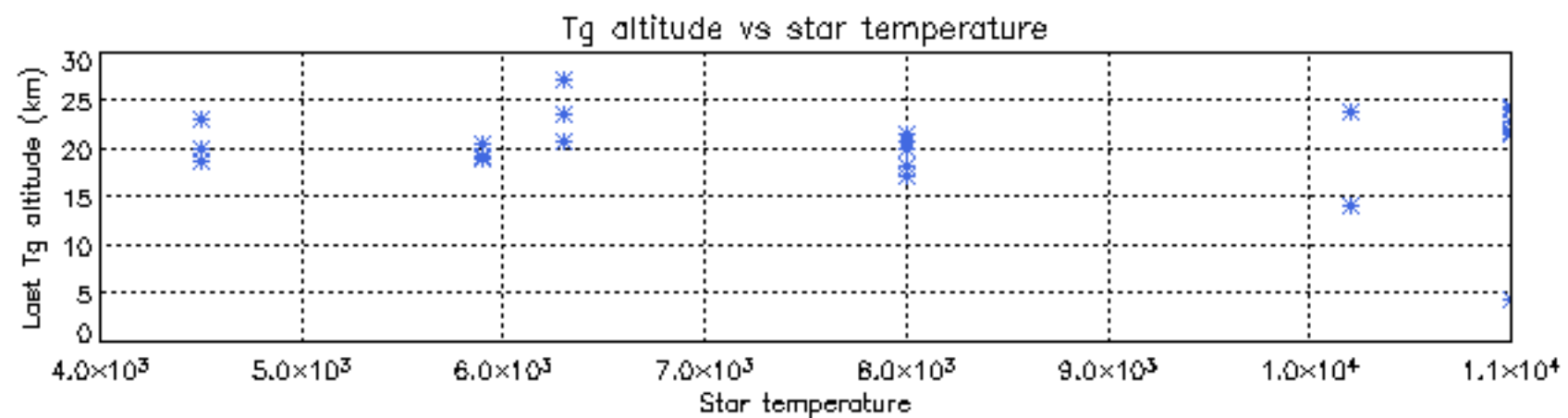
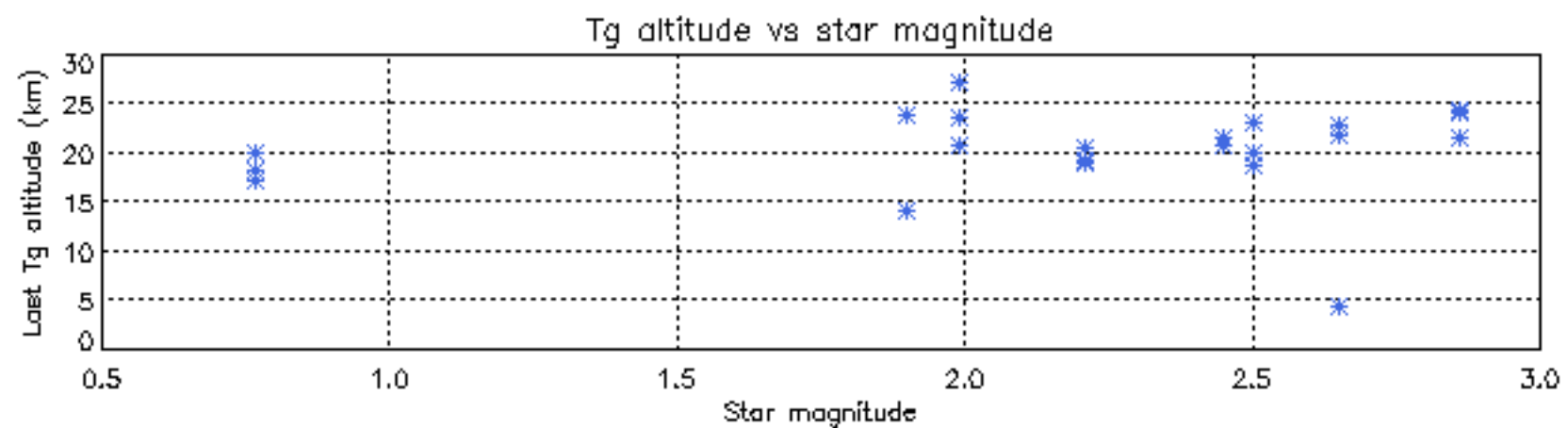
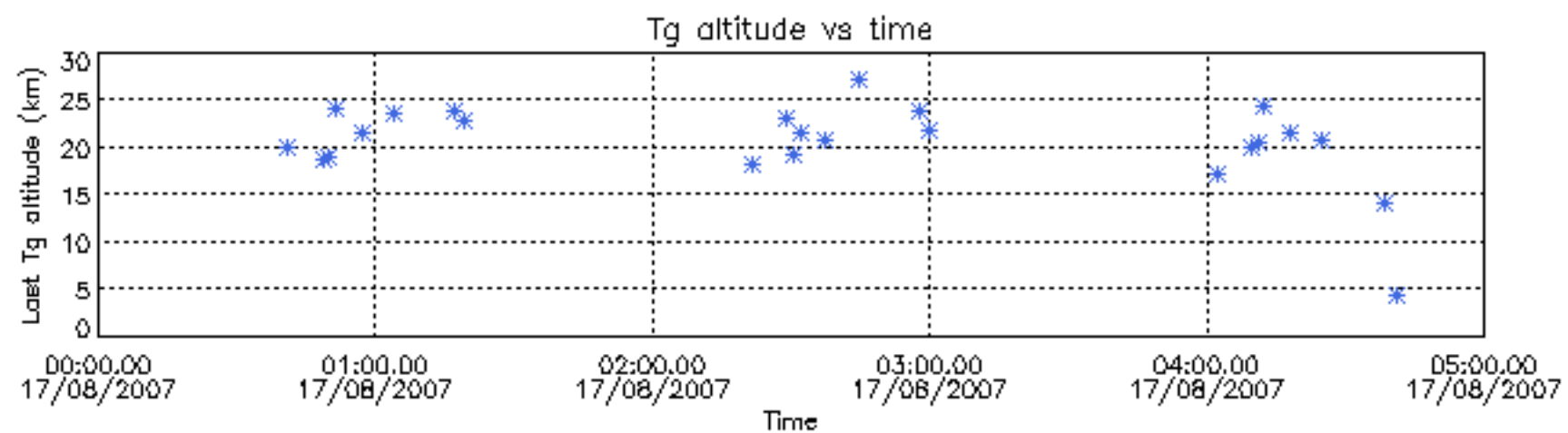


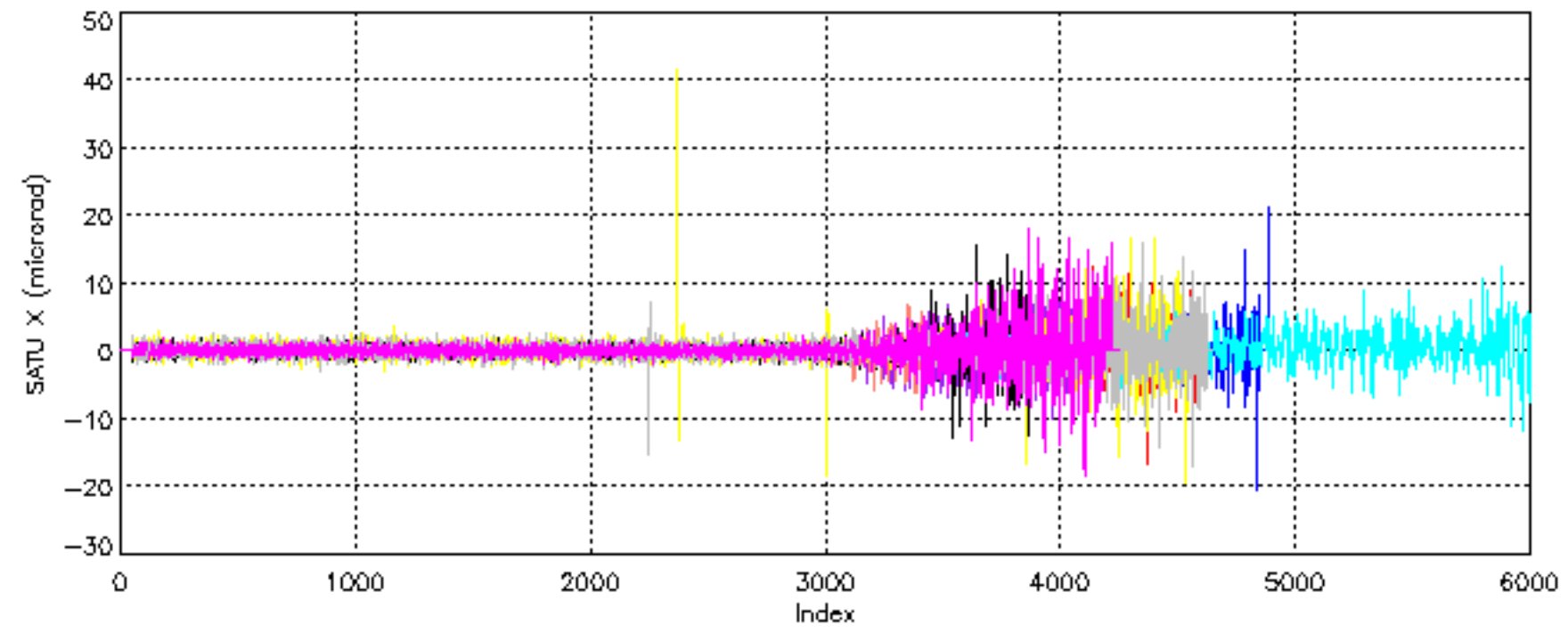
Tangent altitude at which the star is lost

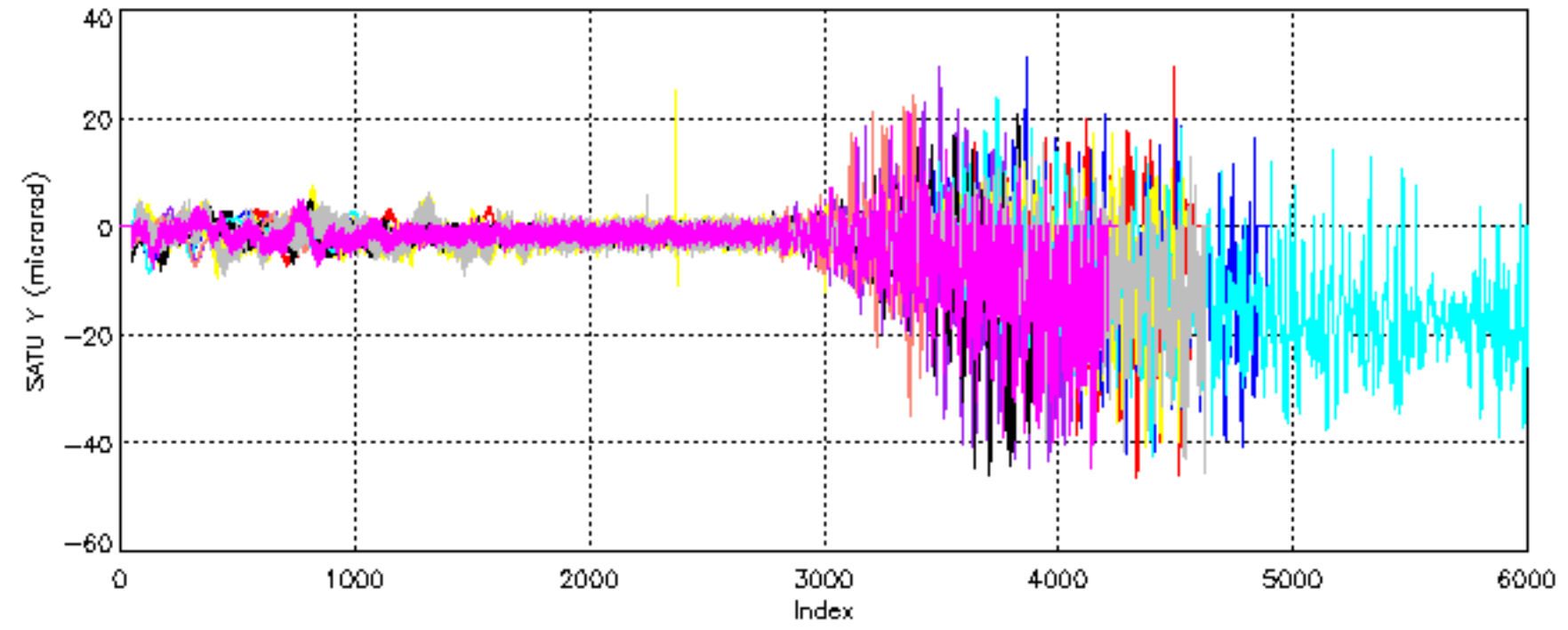




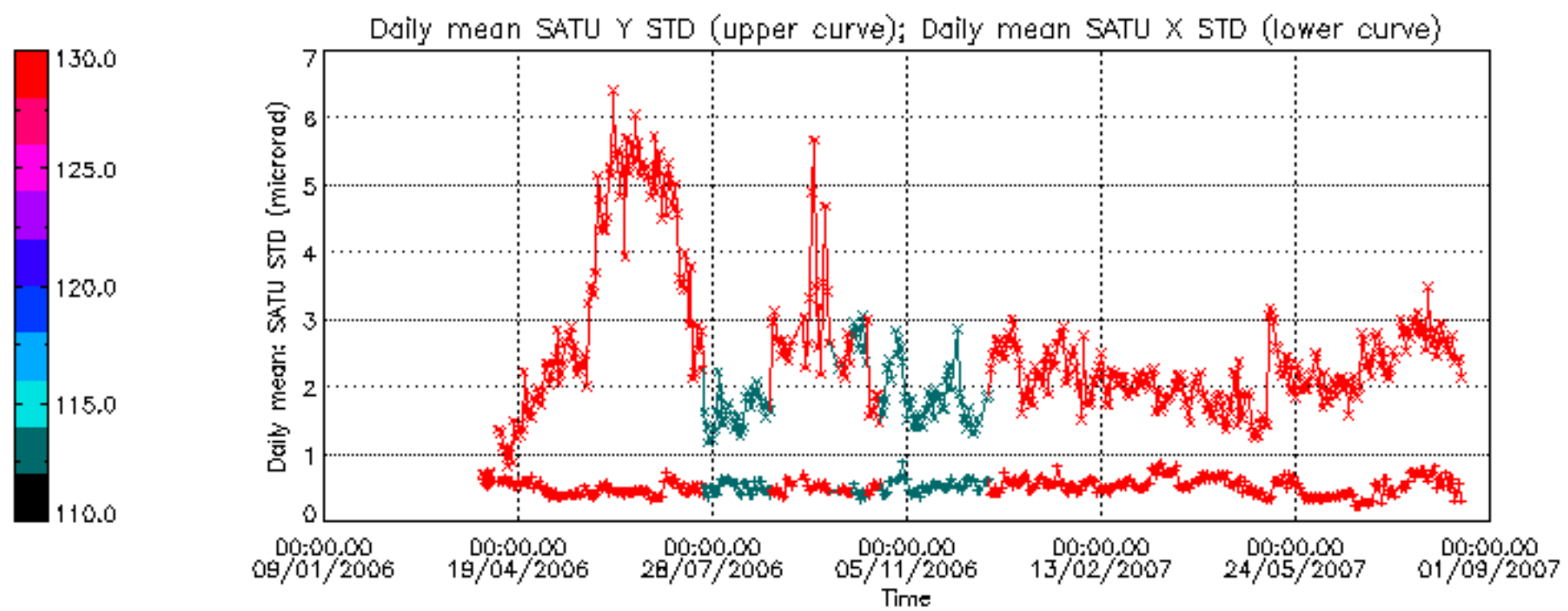
Tangent altitude at which the star is lost











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 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327  
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327  
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328  
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328  
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328  
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328  
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328  
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328  
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328  
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328  
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328  
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328  
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328  
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_025946\_000053002060\_00218\_28328\_4075.N1

1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328  
 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328  
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328  
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 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328  
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328  
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328  
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328  
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328  
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328  
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329  
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329  
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329  
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329  
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329  
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329  
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329  
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329  
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329  
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329  
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329  
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329  
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 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330  
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330  
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330  
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330  
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330  
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330  
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330  
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330  
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330  
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 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330  
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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1; 1414.3; 01-AUG-2007 20:39:43; Dark ; 40.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 81; 0;28339  
 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339  
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339  
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339  
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339  
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339  
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339  
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339  
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339  
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339  
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339  
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339  
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339  
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5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340  
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340  
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340  
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9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340  
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16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340  
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21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340  
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340  
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3; -481.3; 01-AUG-2007 23:29:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28340  
4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341  
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28341  
6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341  
7; 913.2; 01-AUG-2007 23:52:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28341  
8; 1414.5; 02-AUG-2007 00:00:55; Dark ; 51.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 102; 0;28341  
9; 1557.2; 02-AUG-2007 00:03:18; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28341  
10; 2145.5; 02-AUG-2007 00:13:06; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;28341  
11; 2570.4; 02-AUG-2007 00:20:11; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;28341  
12; 2798.4; 02-AUG-2007 00:23:59; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28341  
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22; 5360.6; 02-AUG-2007 01:06:41; Dark ; 7.5; 139; 9Bet Lep ; 2.83; 5600;occ; 15; 0;28341

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6; 4219.7; 10-AUG-2007 11:40:08; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;28462
7; 4360.2; 10-AUG-2007 11:42:28; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;28462
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13; 5486.3; 10-AUG-2007 12:01:14; Dark ; 38.0; 177; 1Zet CMa ; 3.02; 26000;occ; 76; 0;28462
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5; 3439.4; 10-AUG-2007 13:07:43; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28463
6; 4219.8; 10-AUG-2007 13:20:44; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;28463
7; 4360.3; 10-AUG-2007 13:23:04; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;28463
8; 4608.5; 10-AUG-2007 13:27:12; Dark ; 44.0; 151; 13Mu Gem ; 2.89; 3000;occ; 88; 0;28463
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4; 2677.3; 10-AUG-2007 14:35:37; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;28464
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7; 4361.4; 11-AUG-2007 07:49:40; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;28474
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4; -659.0; 19-AUG-2007 05:34:15; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;28587
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8; 482.1; 19-AUG-2007 05:53:17; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28588
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7; 4572.5; 19-AUG-2007 10:22:39; Bright; 35.0; 170; 27Eps Gem ; 3.00; 9700;occ; 70; 0;28590  
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4; 2676.9; 19-AUG-2007 11:31:39; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69; 0;28591  
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9; 5283.8; 19-AUG-2007 12:15:06; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;28591  
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6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747  
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747  
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747  
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21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747  
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748  
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748  
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748  
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7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748  
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748  
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748  
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22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749  
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749  
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749  
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749  
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749  
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21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749  
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750  
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750  
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750  
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750  
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750  
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750  
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750  
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750  
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750  
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750  
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15; 5526.6; 30-AUG-2007 14:54:20; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28750  
16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28750  
17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750  
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751  
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751  
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751  
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751  
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751  
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751  
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751  
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11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751  
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4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752  
5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752  
6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752  
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752  
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752  
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752  
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11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752  
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752  
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13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
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17; 5528.0; 30-AUG-2007 19:56:10; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;28753
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19; 5720.3; 30-AUG-2007 19:59:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28753
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7; 2977.2; 31-AUG-2007 11:59:38; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28763  
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