

# GOMOS Daily Report 20-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	22AUG2007 07:53:05
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (20AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

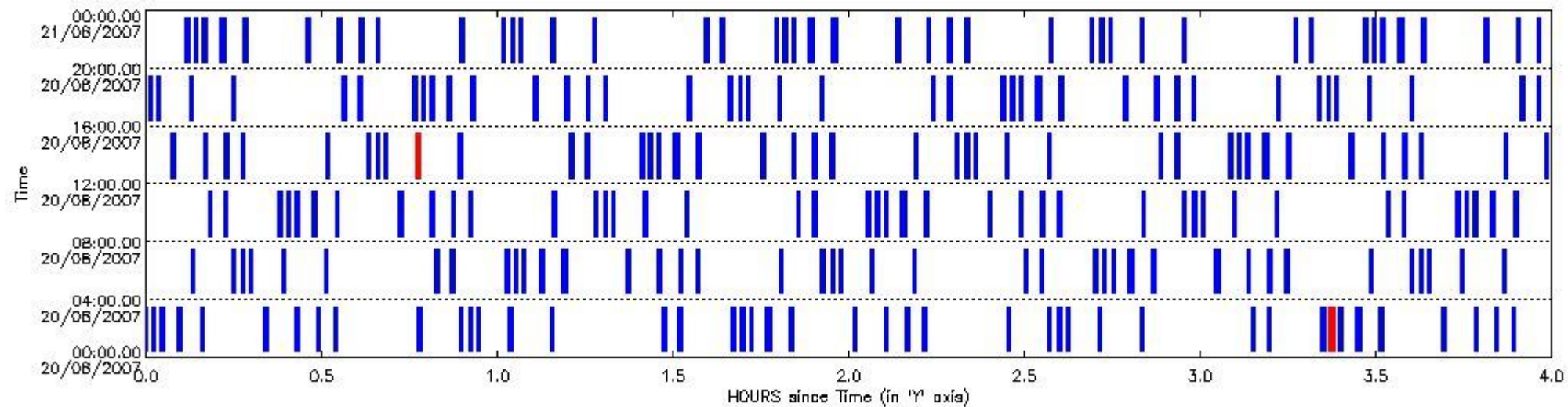
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

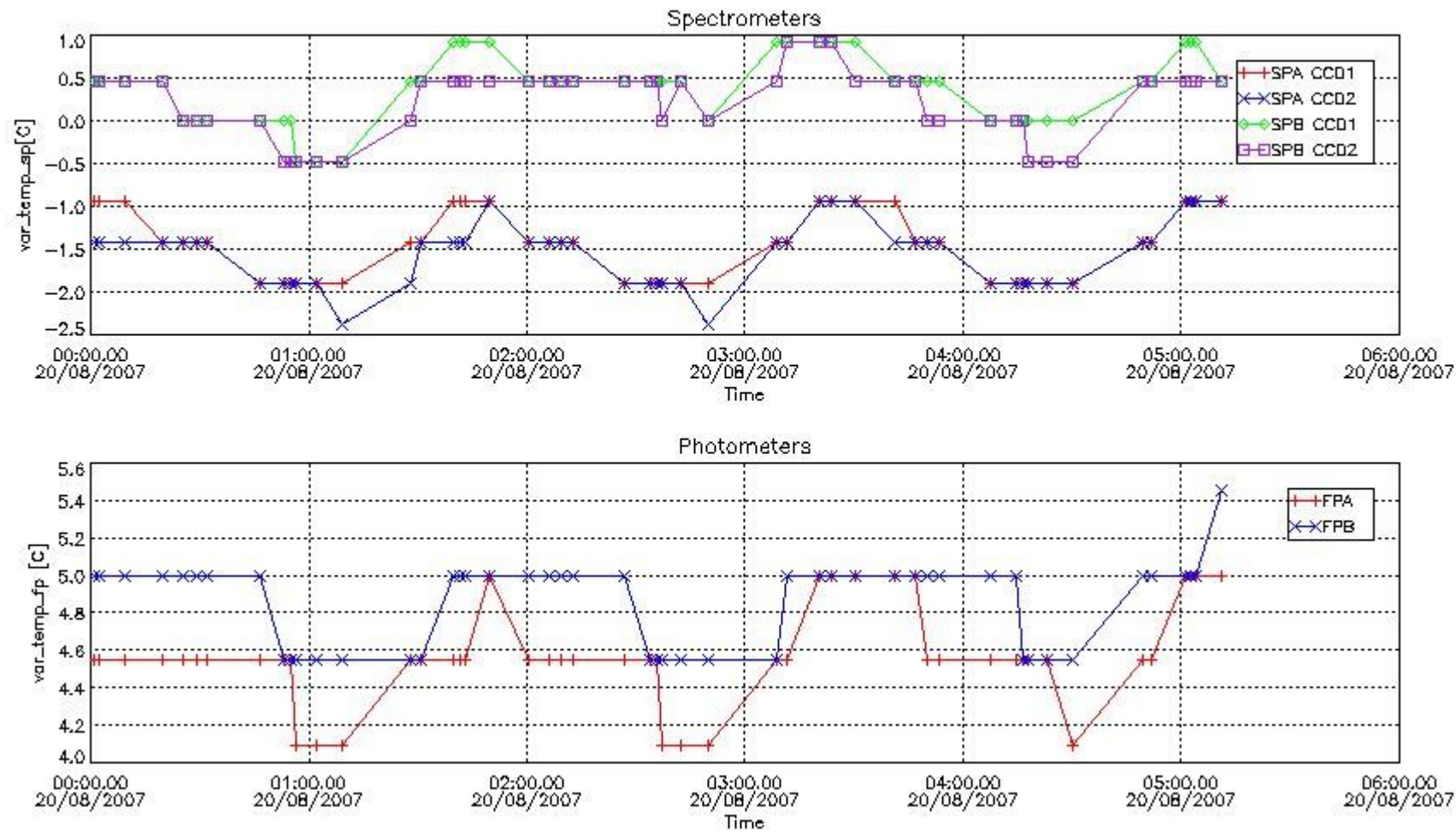
UTC start time	Star name	Star ID	Orbit
20-AUG-2007 03:21:58	24Omi2CMa	179	28600
20-AUG-2007 12:45:56	5AlpCep	89	28606

### 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_1PNPDE20070820_000054_000000362060_00488_28598_3939.N1	20-AUG-2007 00:00:54	Dark	35.500	179	24Omi2CMa	3.0320	24000.	71	28598	No
2	GOM_TRA_1PNPDE20070820_000221_000000402060_00488_28598_3940.N1	20-AUG-2007 00:02:21	Dark	39.500	23	21Eps CMa	1.5020	26000.	79	28598	No
3	GOM_TRA_1PNPDE20070820_000911_000000442060_00488_28598_3941.N1	20-AUG-2007 00:09:11	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	28598	No
4	GOM_TRA_1PNPDE20070820_001959_000000542060_00489_28599_3942.N1	20-AUG-2007 00:19:59	Dark	53.500	9	Alp Eri	0.45300	24000.	107	28599	No
5	GOM_TRA_1PNPDE20070820_002527_000000402060_00489_28599_3943.N1	20-AUG-2007 00:25:27	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28599	No
6	GOM_TRA_1PNPDE20070820_002902_000000392060_00489_28599_3944.N1	20-AUG-2007 00:29:02	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	28599	No
7	GOM_TRA_1PNPDE20070820_003158_000000402060_00489_28599_3945.N1	20-AUG-2007 00:31:58	Straylight	40.000	172	Gam Gru	3.0030	13100.	80	28599	No
8	GOM_TRA_1PNPDE20070820_004621_000000372060_00489_28599_3946.N1	20-AUG-2007 00:46:21	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28599	No
9	GOM_TRA_1PNPDE20070820_005324_000000382060_00489_28599_3947.N1	20-AUG-2007 00:53:24	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28599	No

10	GOM_TRA_1PNPDE20070820_005504_000000372060_00489_28599_3948.N1	20-AUG-2007 00:55:04	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28599	No
11	GOM_TRA_1PNPDE20070820_005627_000000342060_00489_28599_3949.N1	20-AUG-2007 00:56:27	Bright	33.500	144	18Del Cyg	2.8600	11000.	67	28599	No
12	GOM_TRA_1PNPDE20070820_010154_000000352060_00489_28599_3950.N1	20-AUG-2007 01:01:54	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	28599	No
13	GOM_TRA_1PNPDE20070820_010907_000000342060_00489_28599_3951.N1	20-AUG-2007 01:09:07	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28599	No
14	GOM_TRA_1PNPDE20070820_012804_000000402060_00489_28599_3952.N1	20-AUG-2007 01:28:04	Bright	40.000	170	27Eps Gem	3.0000	9700.0	80	28599	No
15	GOM_TRA_1PNPDE20070820_013044_000000452060_00489_28599_3953.N1	20-AUG-2007 01:30:44	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	28599	No
16	GOM_TRA_1PNPDE20070820_013956_000000432060_00489_28599_4091.N1	20-AUG-2007 01:39:56	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	28599	No
17	GOM_TRA_1PNPDE20070820_014130_000000392060_00489_28599_4092.N1	20-AUG-2007 01:41:30	Dark	39.000	179	24Omi2CMa	3.0320	24000.	78	28599	No
18	GOM_TRA_1PNPDE20070820_014257_000000402060_00489_28599_4093.N1	20-AUG-2007 01:42:57	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	28599	No
19	GOM_TRA_1PNPDE20070820_014948_000000452060_00489_28599_4094.N1	20-AUG-2007 01:49:48	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	28599	No
20	GOM_TRA_1PNPDE20070820_020036_000000442060_00490_28600_4095.N1	20-AUG-2007 02:00:36	Dark	43.500	9	Alp Eri	0.45300	24000.	87	28600	No
21	GOM_TRA_1PNPDE20070820_020603_000000422060_00490_28600_4096.N1	20-AUG-2007 02:06:03	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28600	No
22	GOM_TRA_1PNPDE20070820_020938_000000402060_00490_28600_4097.N1	20-AUG-2007 02:09:38	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28600	No
23	GOM_TRA_1PNPDE20070820_021234_000000412060_00490_28600_4098.N1	20-AUG-2007 02:12:34	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	28600	No
24	GOM_TRA_1PNPDE20070820_022657_000000372060_00490_28600_4099.N1	20-AUG-2007 02:26:57	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28600	No
25	GOM_TRA_1PNPDE20070820_023400_000000362060_00490_28600_4100.N1	20-AUG-2007 02:34:00	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28600	No
26	GOM_TRA_1PNPDE20070820_023539_000000372060_00490_28600_4101.N1	20-AUG-2007 02:35:39	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28600	No
27	GOM_TRA_1PNPDE20070820_023703_000000352060_00490_28600_4102.N1	20-AUG-2007 02:37:03	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	28600	No
28	GOM_TRA_1PNPDE20070820_024230_000000382060_00490_28600_4103.N1	20-AUG-2007 02:42:30	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	28600	No
29	GOM_TRA_1PNPDE20070820_024943_000000332060_00490_28600_4104.N1	20-AUG-2007 02:49:43	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28600	No
30	GOM_TRA_1PNPDE20070820_030840_000000402060_00490_28600_4246.N1	20-AUG-2007 03:08:40	Bright	40.000	170	27Eps Gem	3.0000	9700.0	80	28600	No
31	GOM_TRA_1PNPDE20070820_031120_000000432060_00490_28600_4247.N1	20-AUG-2007 03:11:20	Twilight	43.000	44	24Gam Gem	1.9280	11000.	86	28600	No
32	GOM_TRA_1PNPDE20070820_032033_000000452060_00490_28600_4248.N1	20-AUG-2007 03:20:33	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	28600	No
33	GOM_TRA_1PNPDE20070820_032334_000000412060_00490_28600_4249.N1	20-AUG-2007 03:23:34	Dark	40.500	23	21Eps CMa	1.5020	26000.	81	28600	No
34	GOM_TRA_1PNPDE20070820_033024_000000482060_00490_28600_4250.N1	20-AUG-2007 03:30:24	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	28600	No
35	GOM_TRA_1PNPDE20070820_034112_000000462060_00491_28601_4251.N1	20-AUG-2007 03:41:12	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28601	No
36	GOM_TRA_1PNPDE20070820_034639_000000382060_00491_28601_4252.N1	20-AUG-2007 03:46:39	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	28601	No
37	GOM_TRA_1PNPDE20070820_035015_000000422060_00491_28601_4253.N1	20-AUG-2007 03:50:15	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	28601	No
38	GOM_TRA_1PNPDE20070820_035311_000000382060_00491_28601_4254.N1	20-AUG-2007 03:53:11	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	28601	No
39	GOM_TRA_1PNPDE20070820_040734_000000372060_00491_28601_4255.N1	20-AUG-2007 04:07:34	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28601	No
40	GOM_TRA_1PNPDE20070820_041436_000000392060_00491_28601_4256.N1	20-AUG-2007 04:14:36	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	28601	No
41	GOM_TRA_1PNPDE20070820_041615_000000362060_00491_28601_4257.N1	20-AUG-2007 04:16:15	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	28601	No
42	GOM_TRA_1PNPDE20070820_041739_000000342060_00491_28601_4258.N1	20-AUG-2007 04:17:39	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28601	No
43	GOM_TRA_1PNPDE20070820_042305_000000342060_00491_28601_4259.N1	20-AUG-2007 04:23:05	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	28601	No
44	GOM_TRA_1PNPDE20070820_043019_000000332060_00491_28601_4260.N1	20-AUG-2007 04:30:19	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28601	No
45	GOM_TRA_1PNPDE20070820_044916_000000372060_00491_28601_4414.N1	20-AUG-2007 04:49:16	Bright	37.000	170	27Eps Gem	3.0000	9700.0	74	28601	No
46	GOM_TRA_1PNPDE20070820_045157_000000432060_00491_28601_4415.N1	20-AUG-2007 04:51:57	Twilight	42.500	44	24Gam Gem	1.9280	11000.	85	28601	No
47	GOM_TRA_1PNPDE20070820_050109_000000492060_00491_28601_4416.N1	20-AUG-2007 05:01:09	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	28601	No
48	GOM_TRA_1PNPDE20070820_050242_000000402060_00491_28601_4417.N1	20-AUG-2007 05:02:42	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	28601	No
49	GOM_TRA_1PNPDE20070820_050410_000000412060_00491_28601_4418.N1	20-AUG-2007 05:04:10	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	28601	No
50	GOM_TRA_1PNPDE20070820_051100_000000522060_00491_28601_4419.N1	20-AUG-2007 05:11:00	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	28601	No

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



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

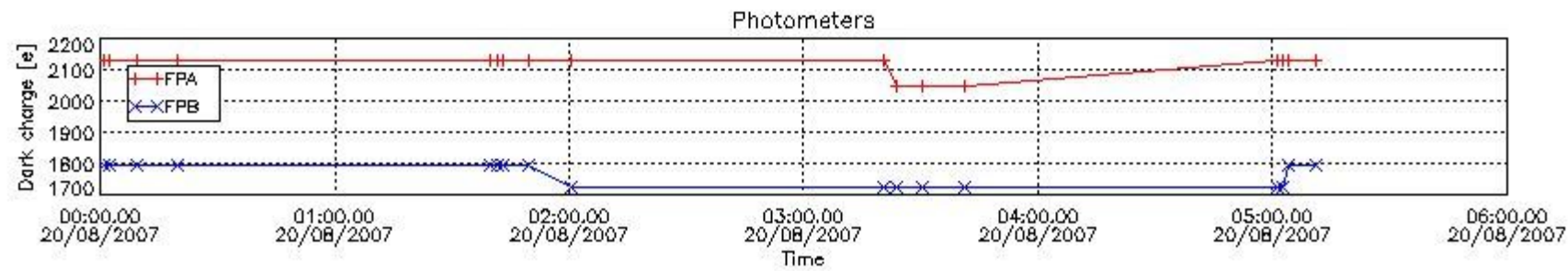
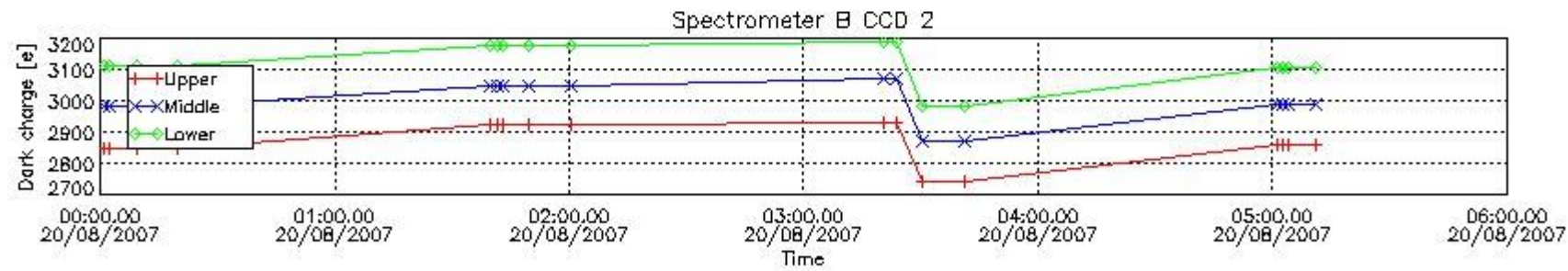
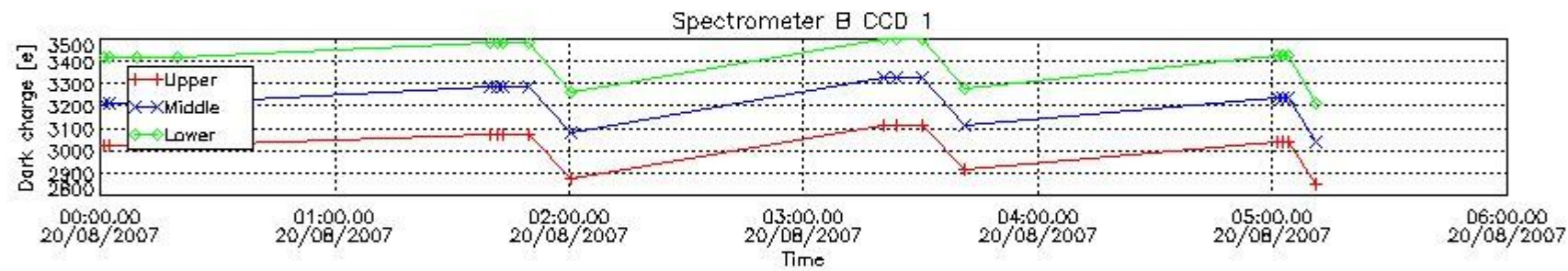
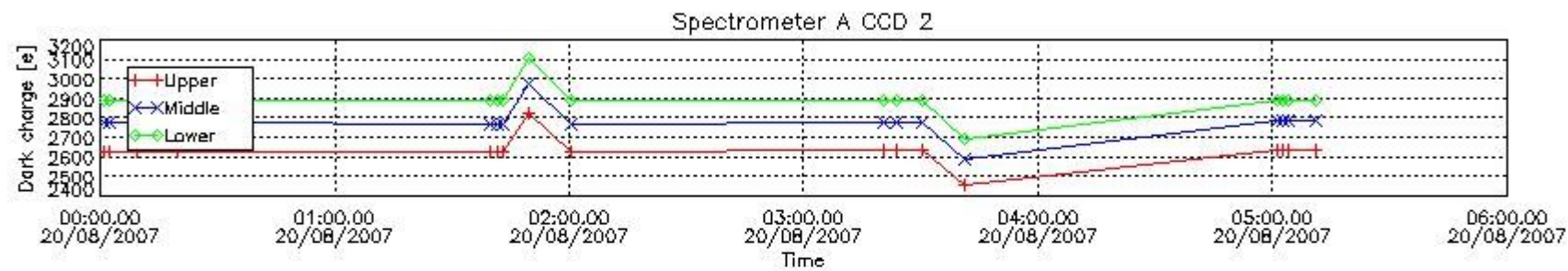
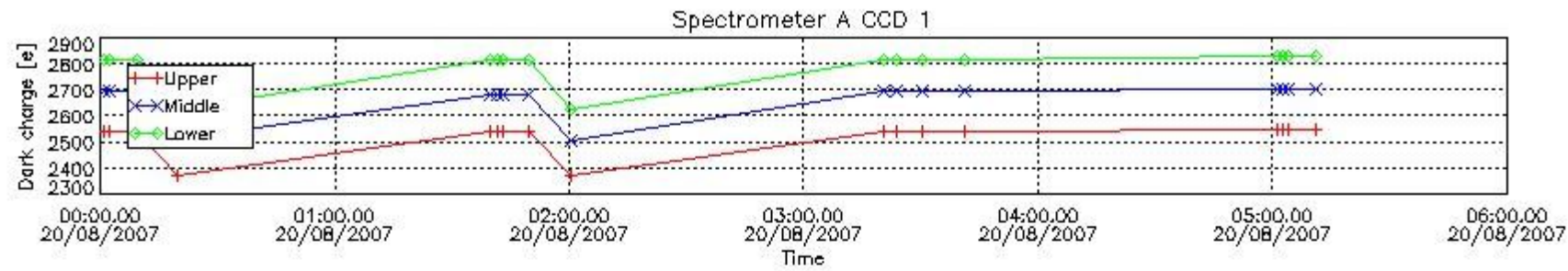
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





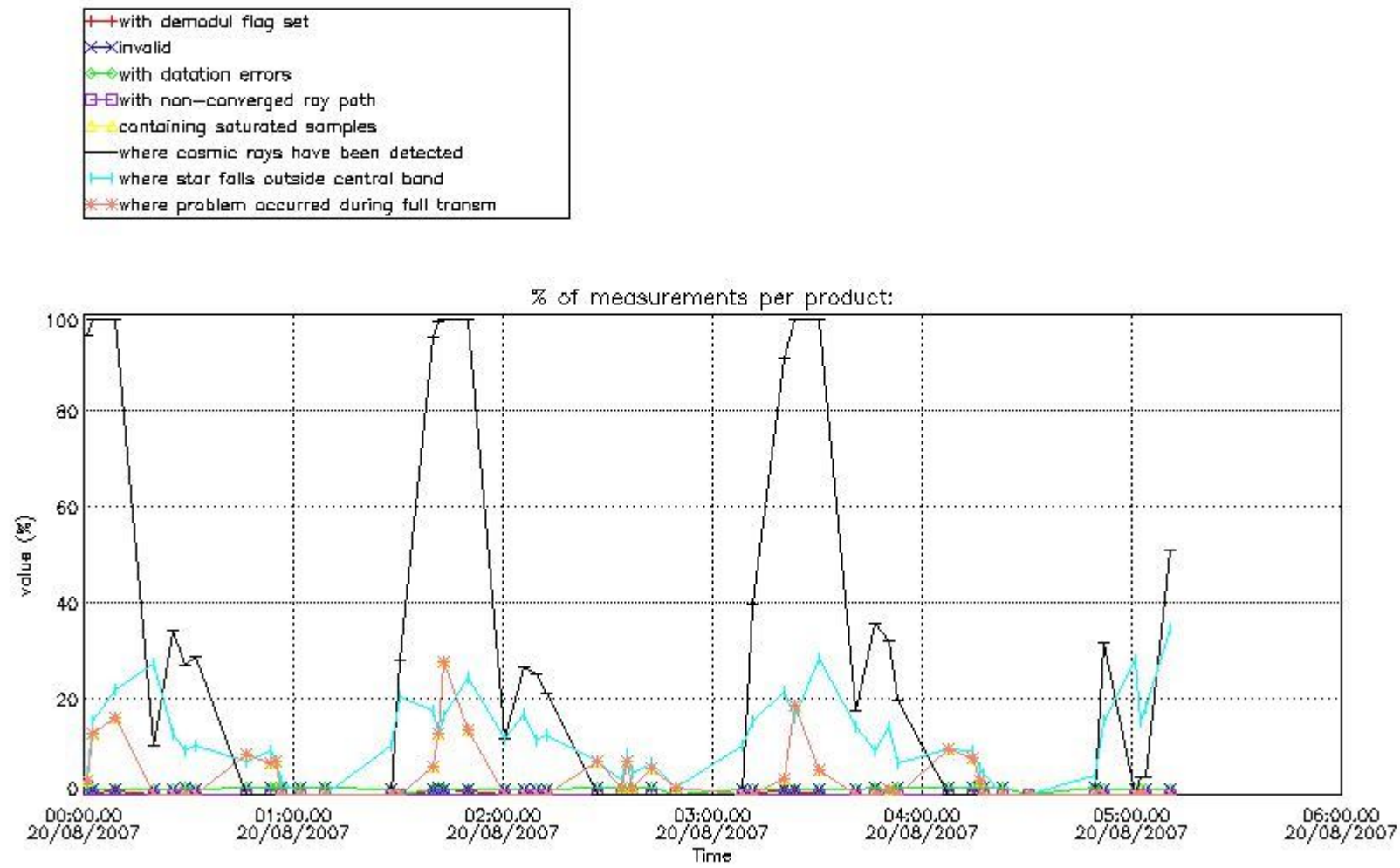
## 5. Demodulation flag and quality information monitoring

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:

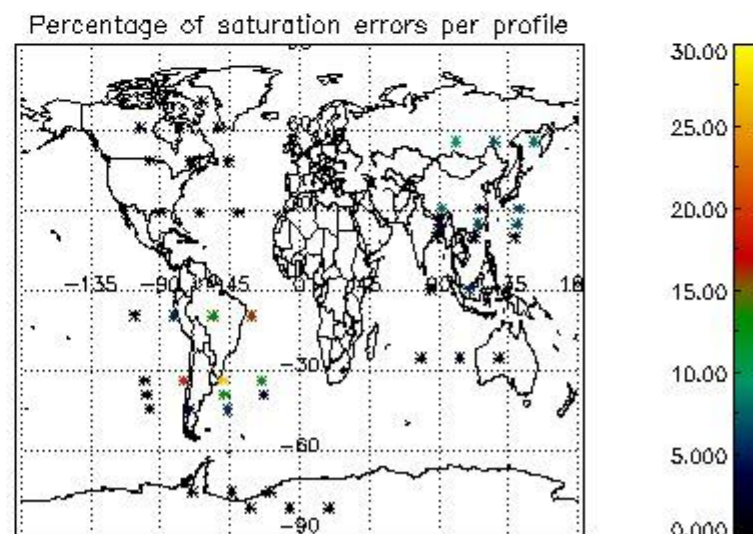
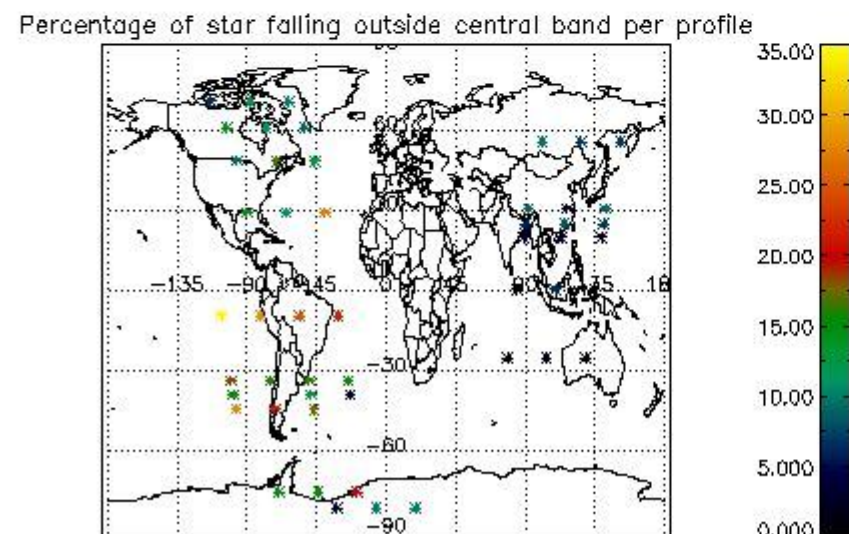
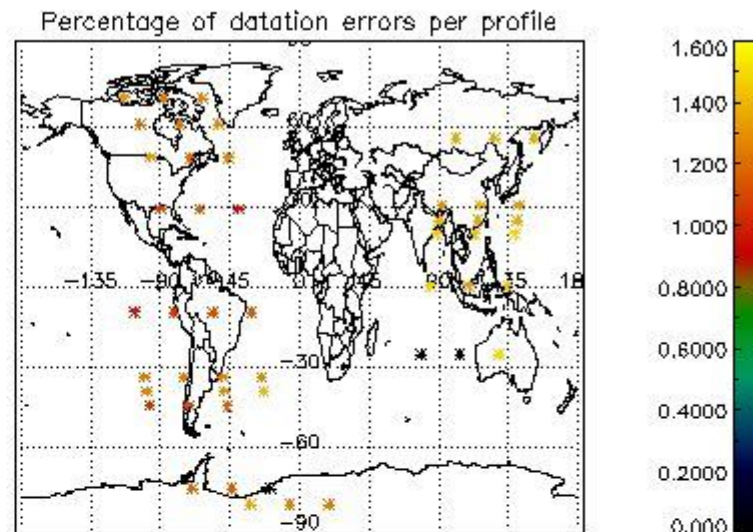
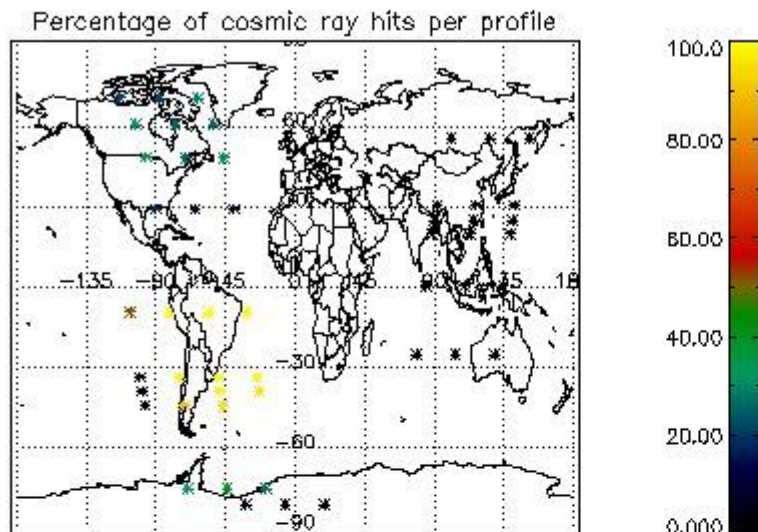
At least one measurement with demodulation flag set:	28.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





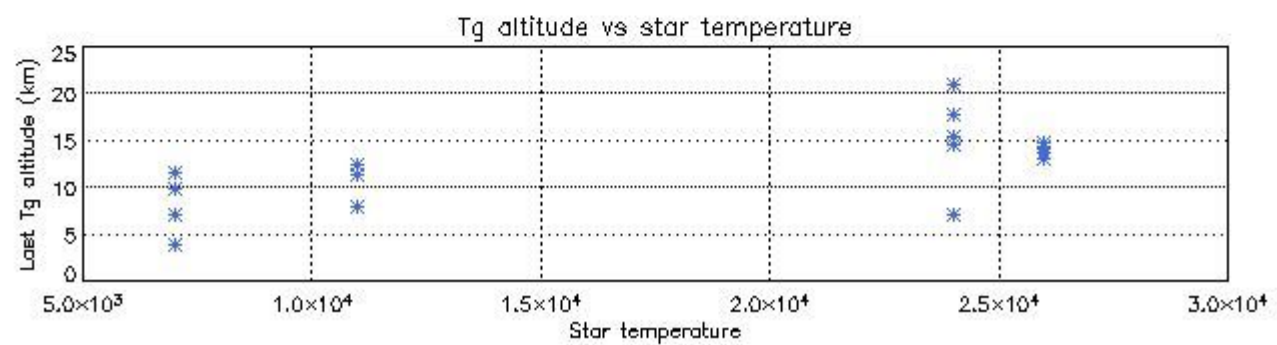
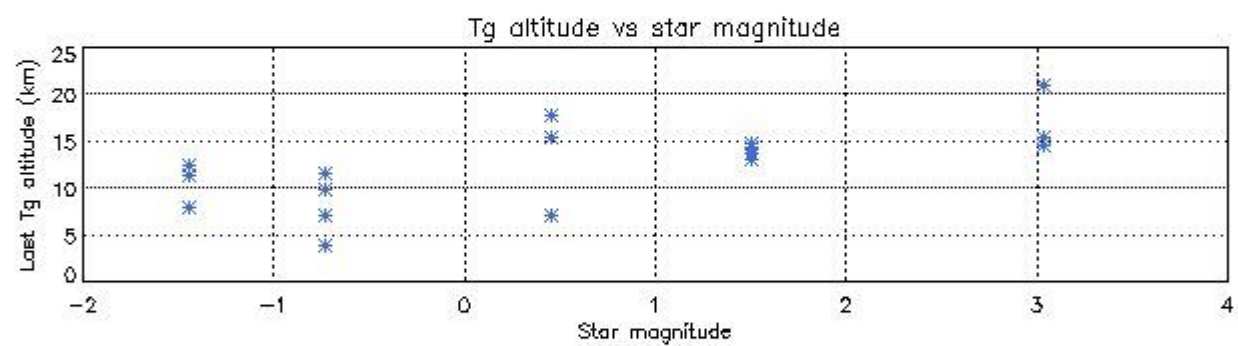
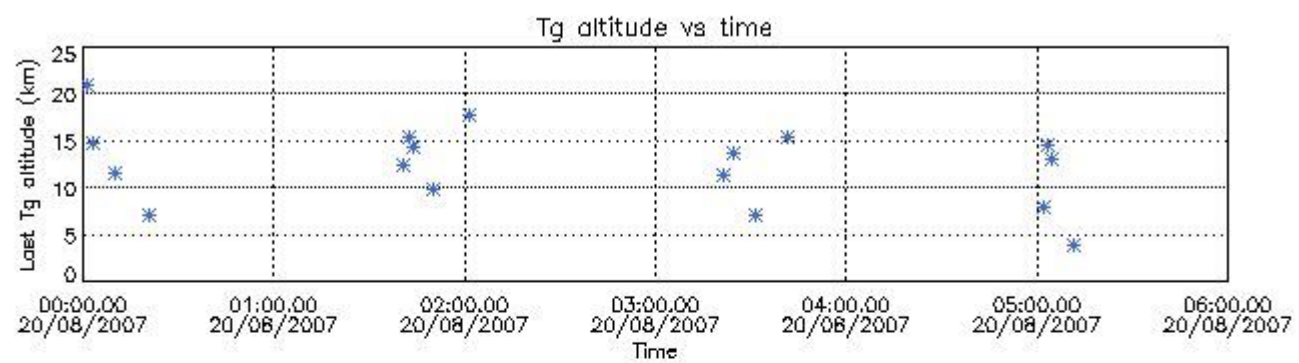
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.391	22.067	NaN
St. deviation:	4.2941	3.8688	NaN
Maximum:	20.897	28.484	NaN
Minimum:	3.9270	16.502	NaN
Number of data:	17.000	21.000	NaN

### 6.2 Plot for DARK limb products

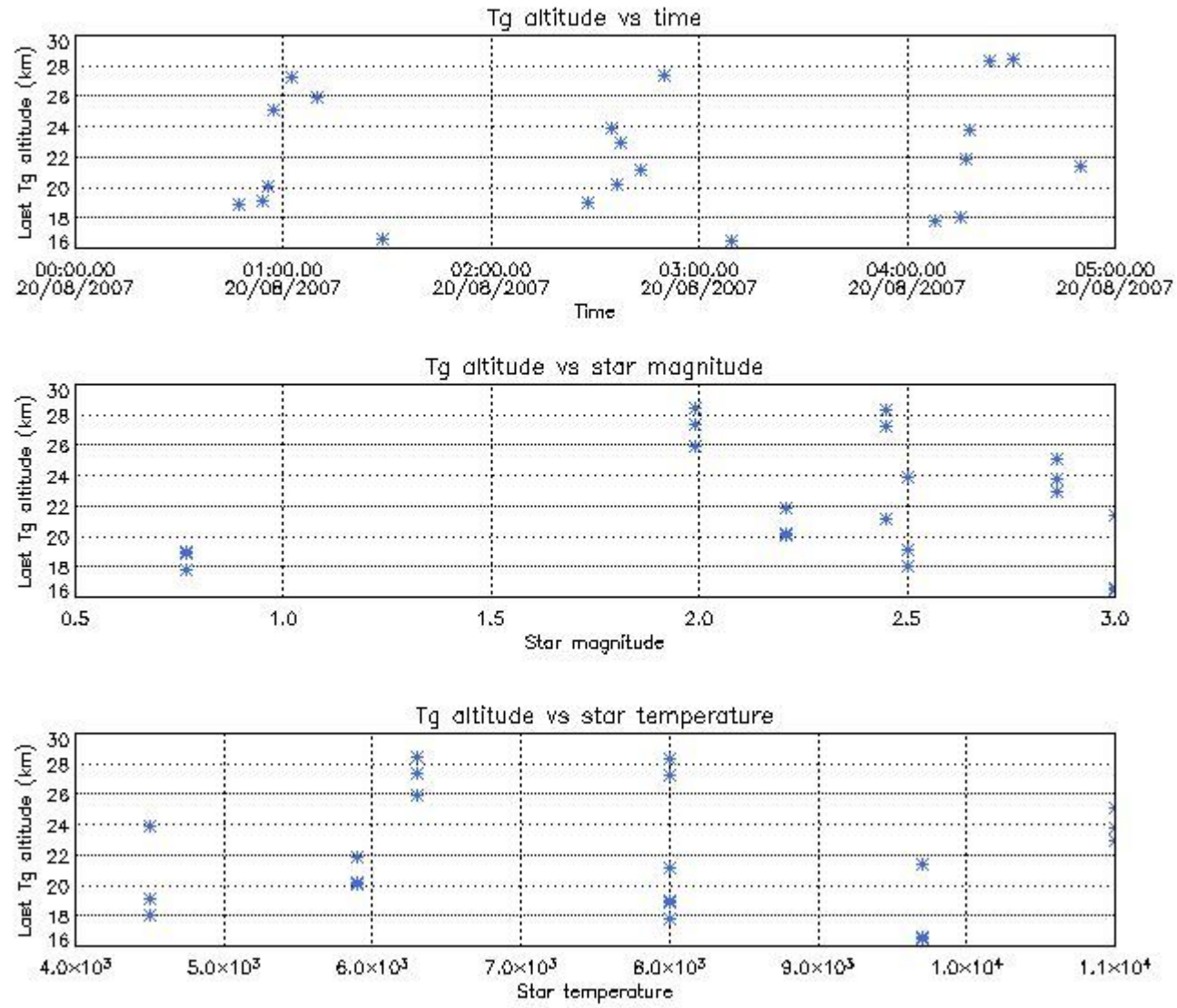
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

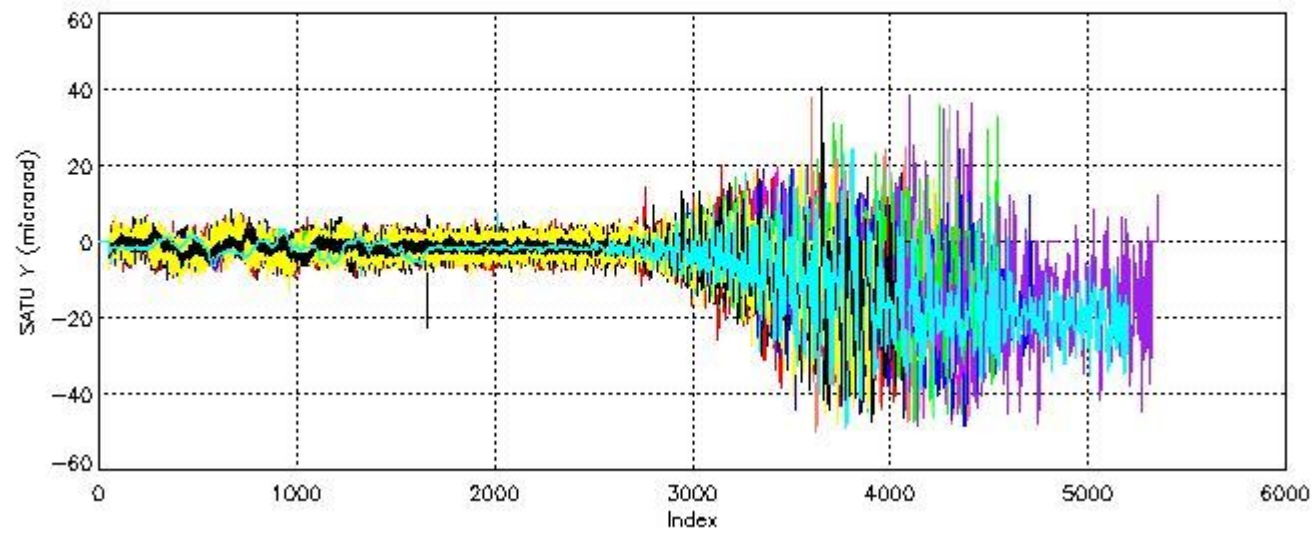
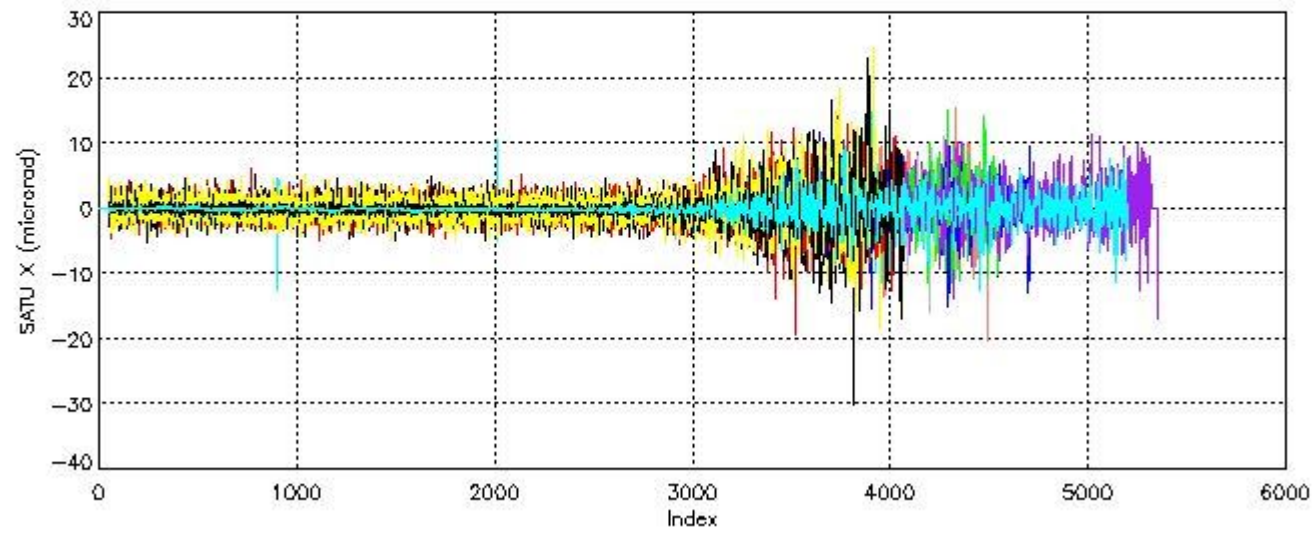


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	-0.030929	-1.1173	0.093206	-1.3201
St. deviation:	0.49373	1.9601	0.72040	1.9501
Maximum:	6.1000	8.2000	5.8000	6.5000
Minimum:	-5.3000	-10.400	-5.0000	-10.900

Number of data:	15050.	15050.	17250.	17250.
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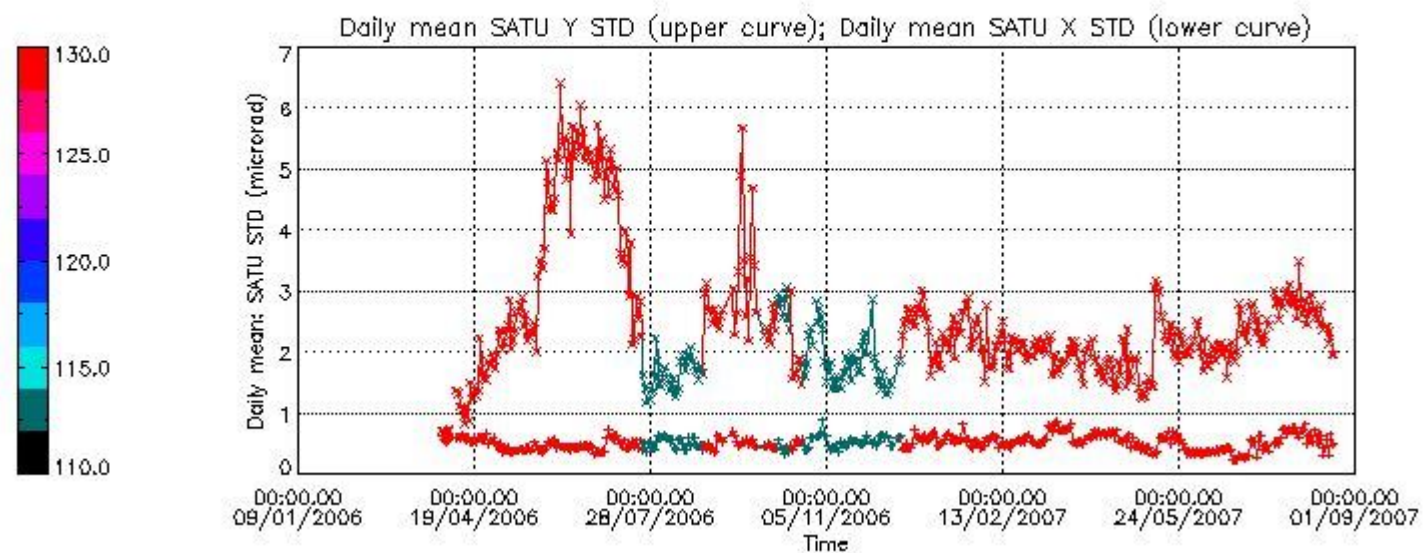
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

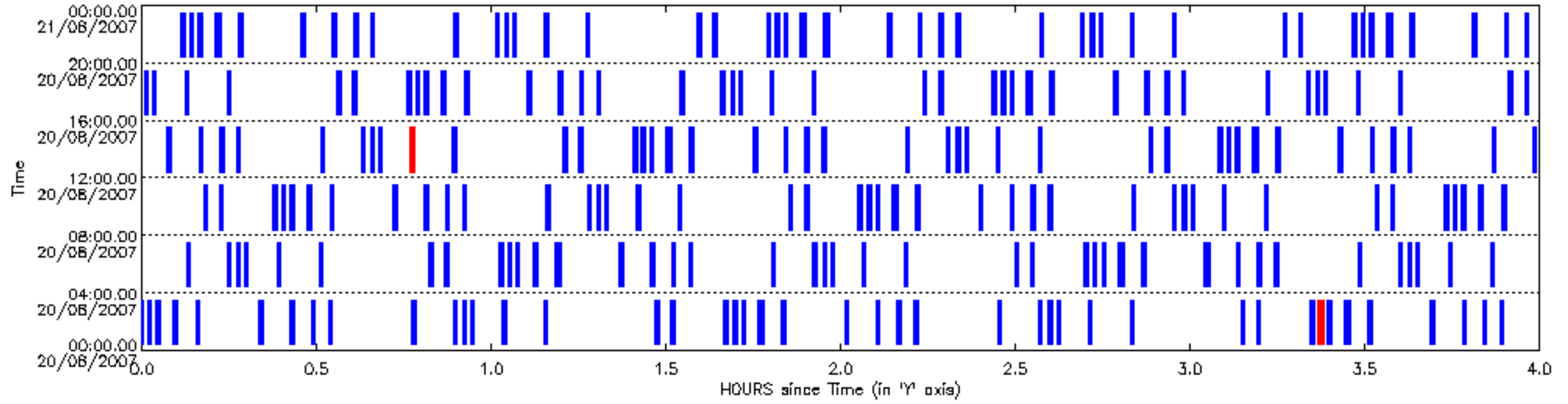


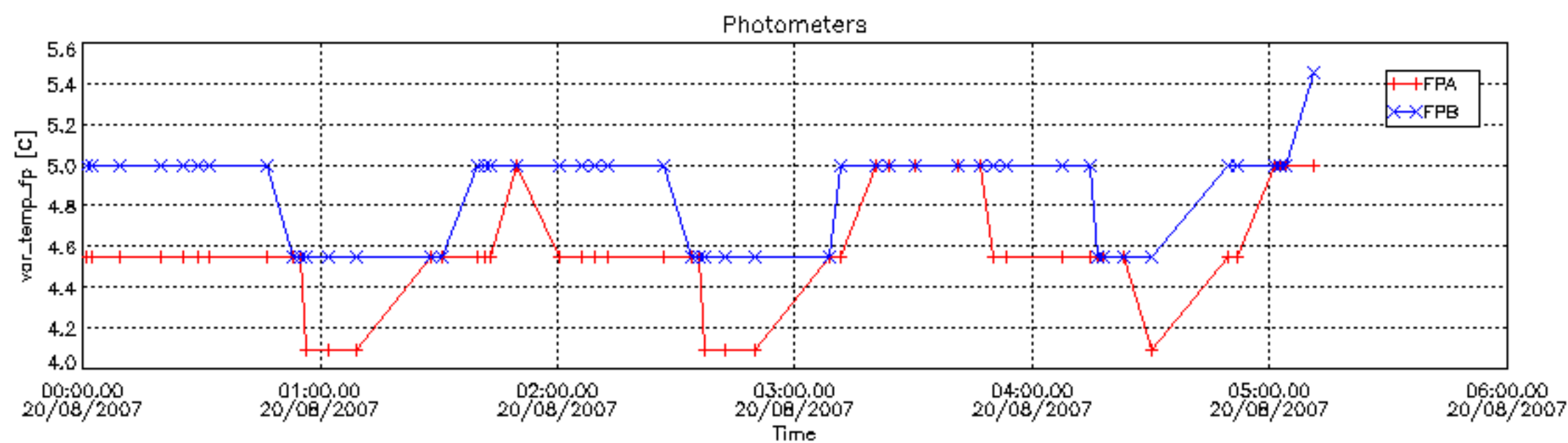
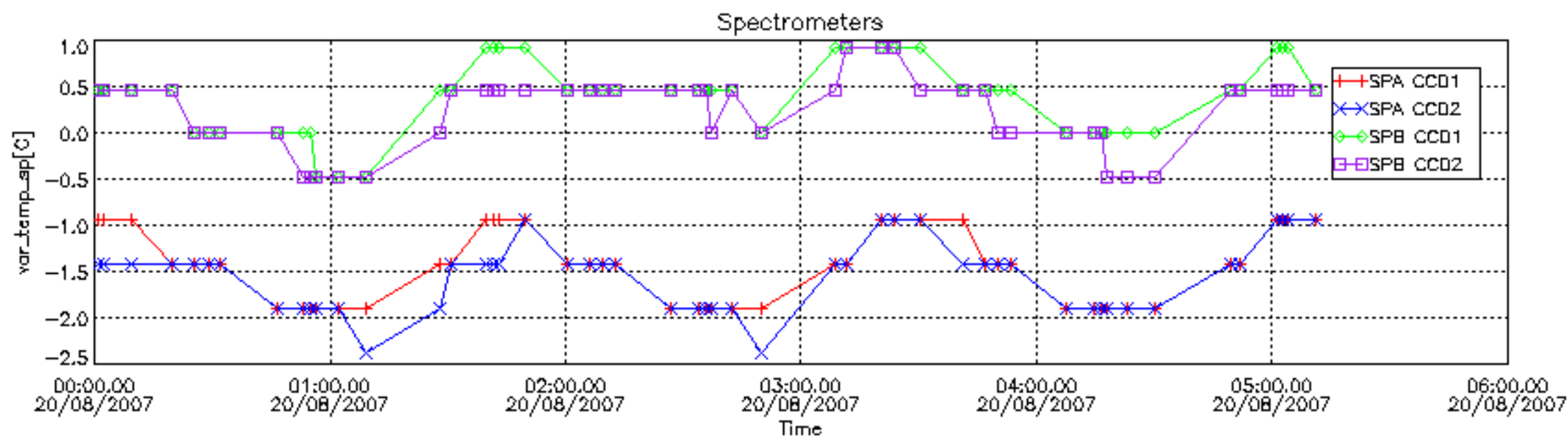
### 8. Auxiliary Data Files used for the production reported in section 2.4

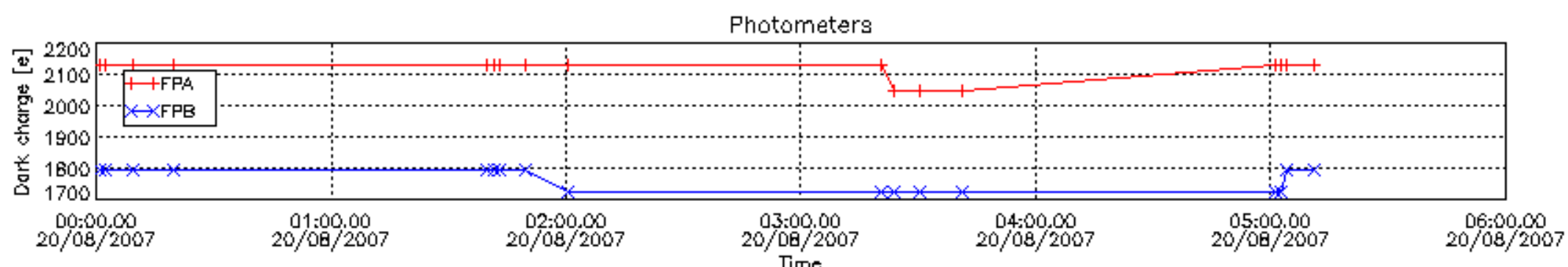
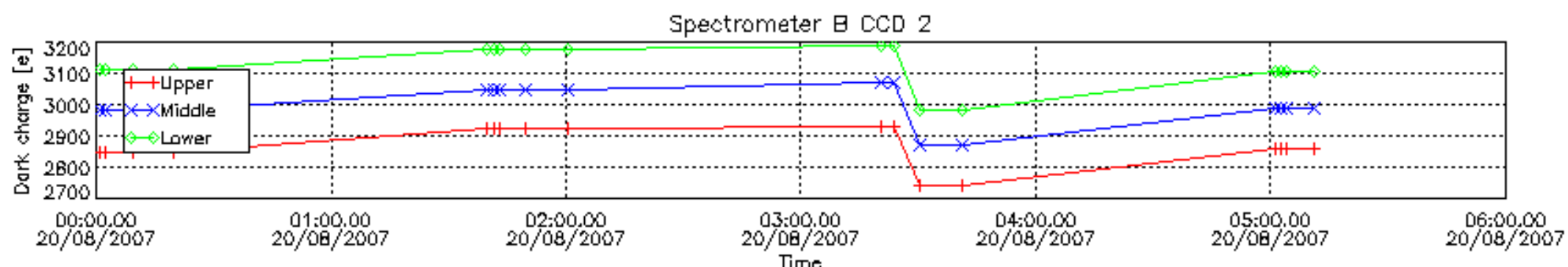
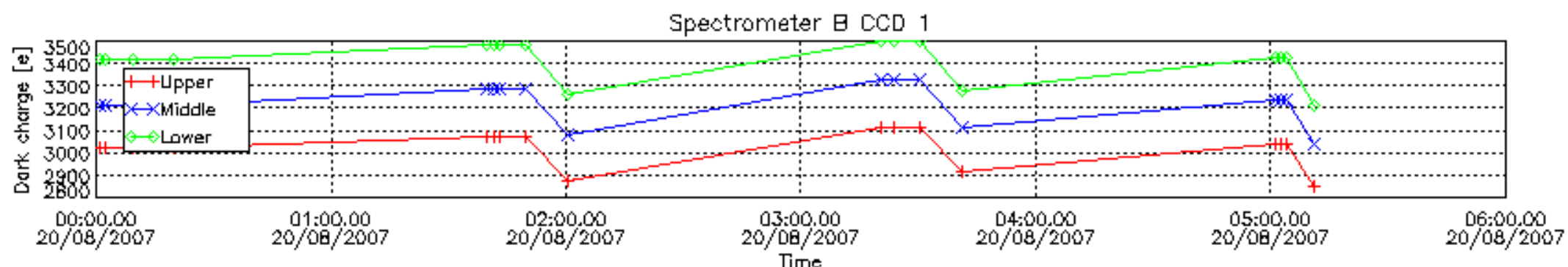
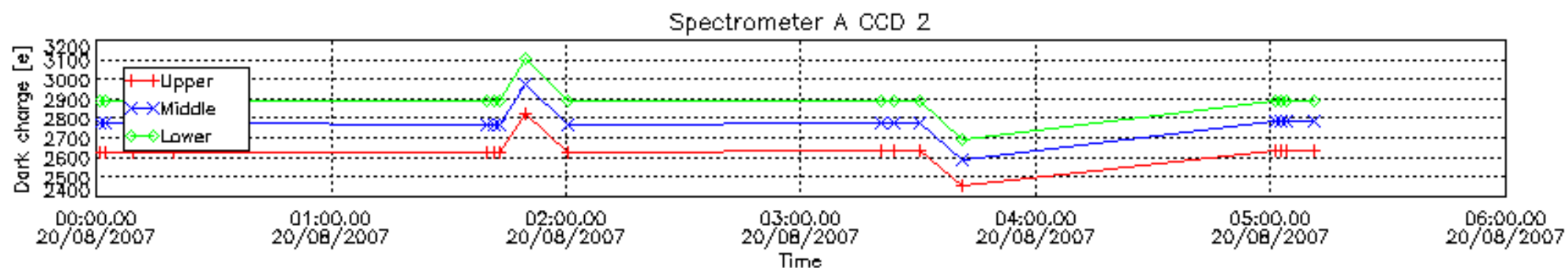
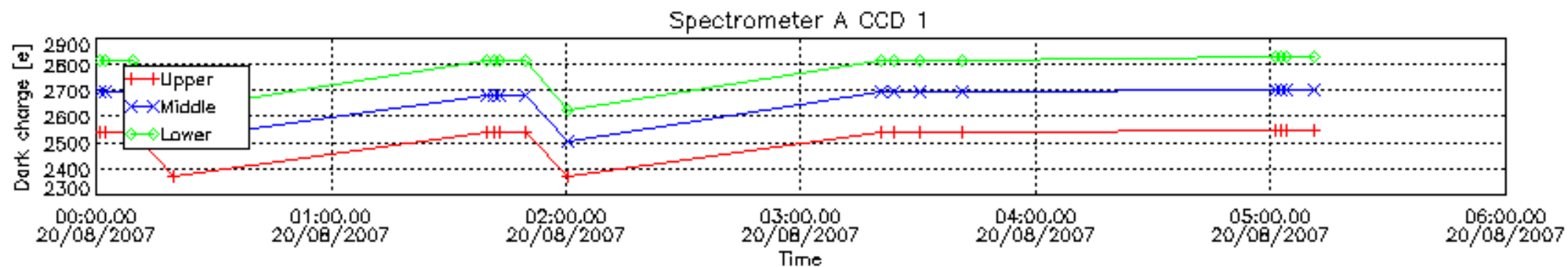
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-AUG-2007 00:00:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070814_104912_20070813_000000_20100101_000000	1	20-AUG-2007 00:00:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-AUG-2007 00:00:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-AUG-2007 00:00:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-AUG-2007 00:00:54
ECMWF_FILE	AUX_ECF_AXNECM20070819_062111_20070819_210000_20070820_090000	1	20-AUG-2007 00:00:54
ECMWF_FILE	AUX_ECF_AXNECM20070819_182113_20070820_030000_20070820_150000	30	20-AUG-2007 03:08:40
OPTIONAL_ECMWF_FILE	MISSING	1	20-AUG-2007 00:00:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070819_221611_000057382060_00487_28597_4003.N1	1	20-AUG-2007 00:00:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070819_235708_000057382060_00488_28598_4004.N1	16	20-AUG-2007 01:39:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070820_013805_000038252060_00489_28599_4005.N1	30	20-AUG-2007 03:08:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070820_024709_000060572060_00490_28600_4006.N1	45	20-AUG-2007 04:49:16





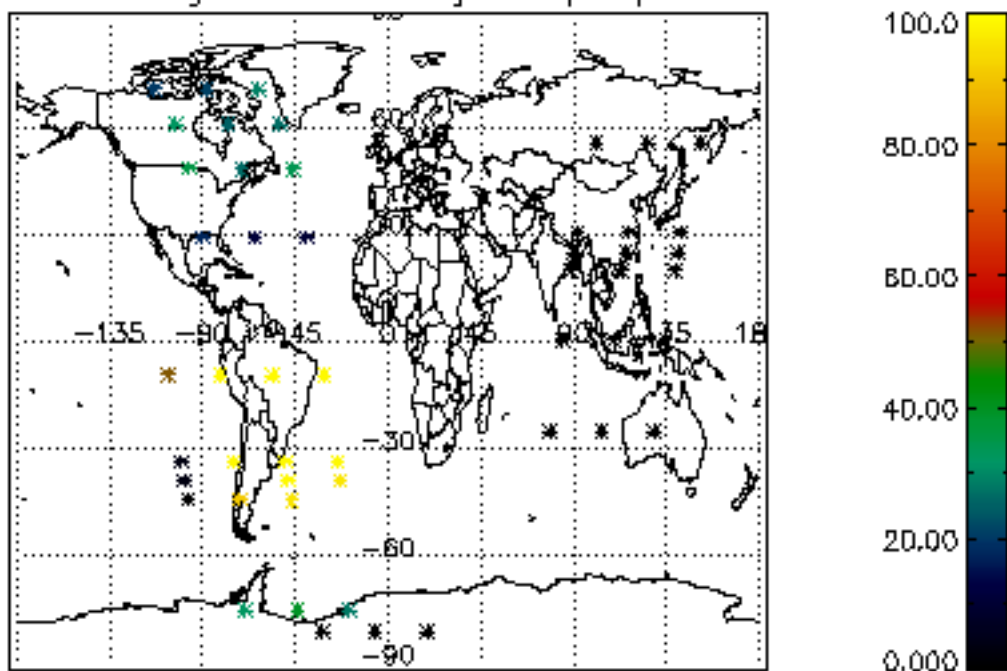




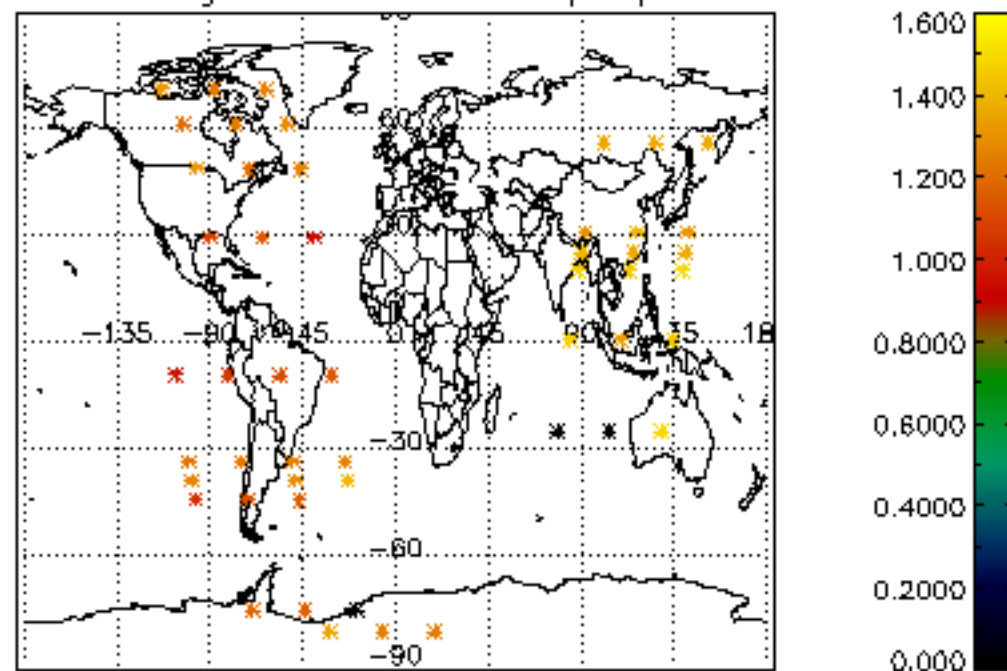




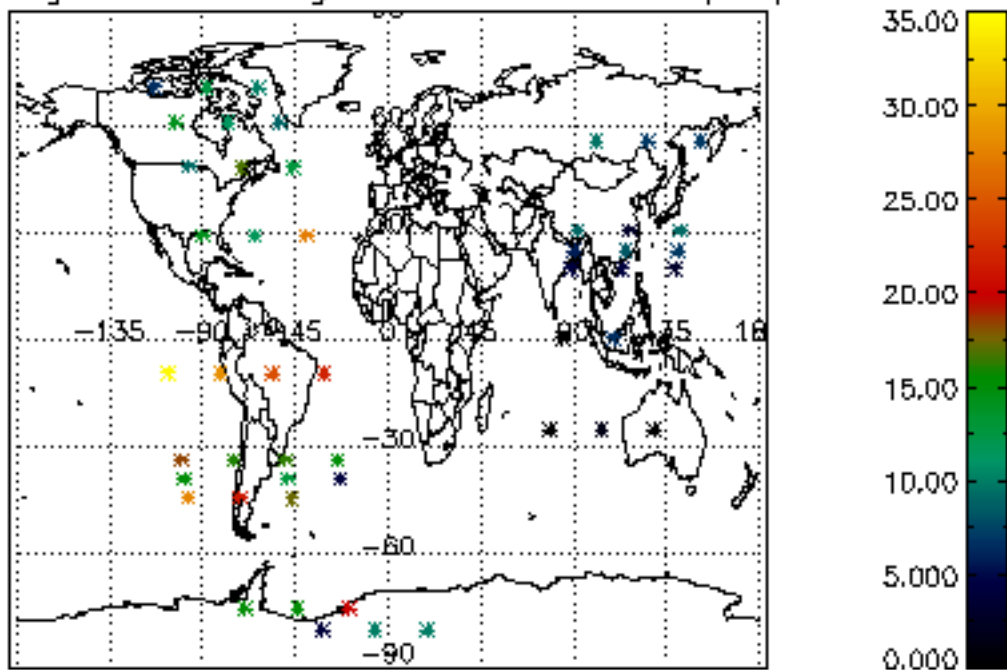
Percentage of cosmic ray hits per profile



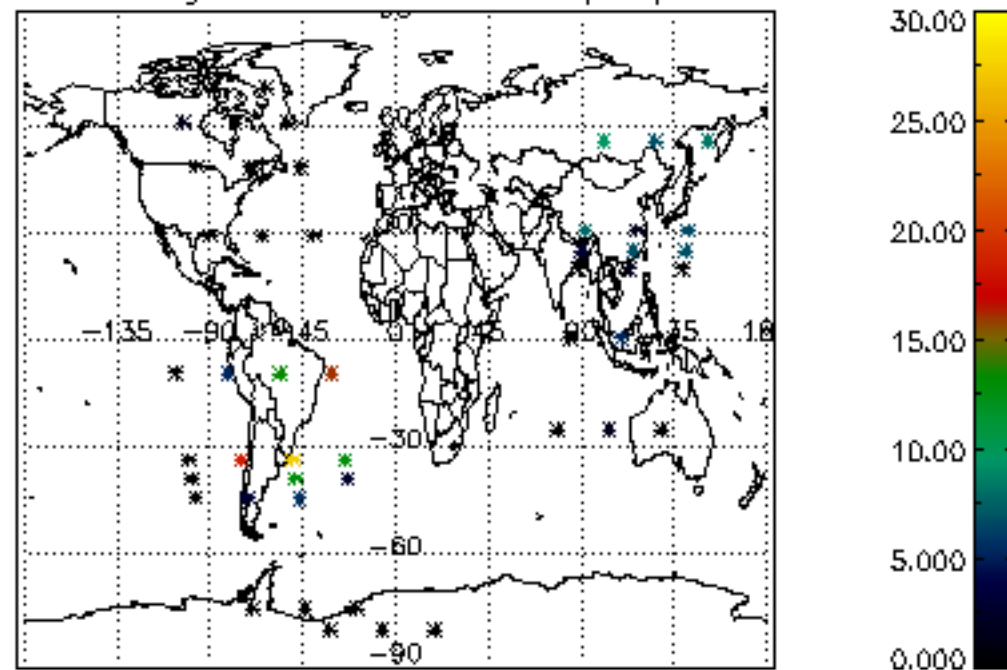
Percentage of datation errors per profile



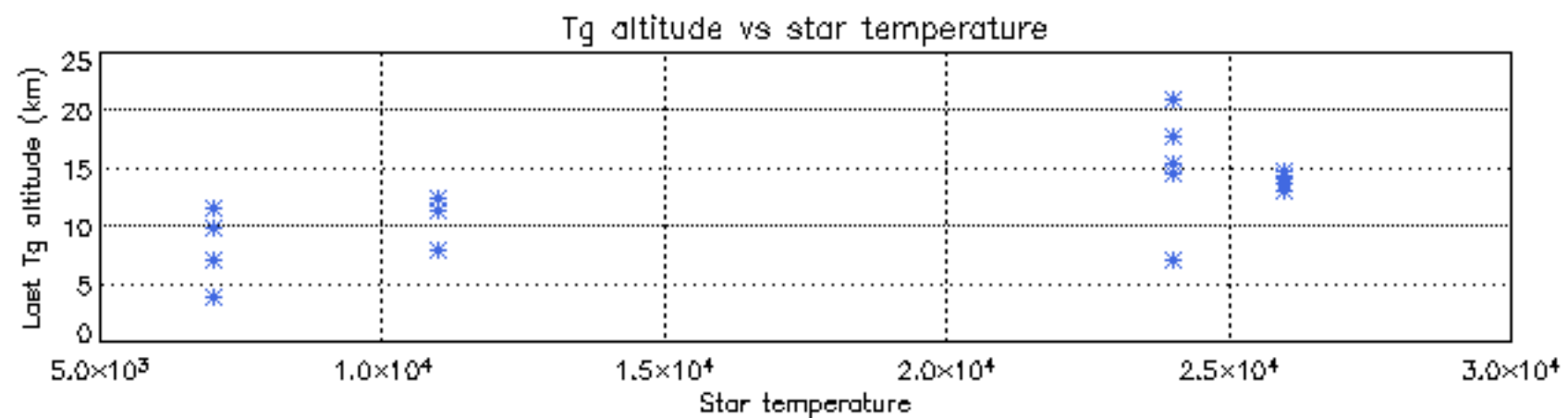
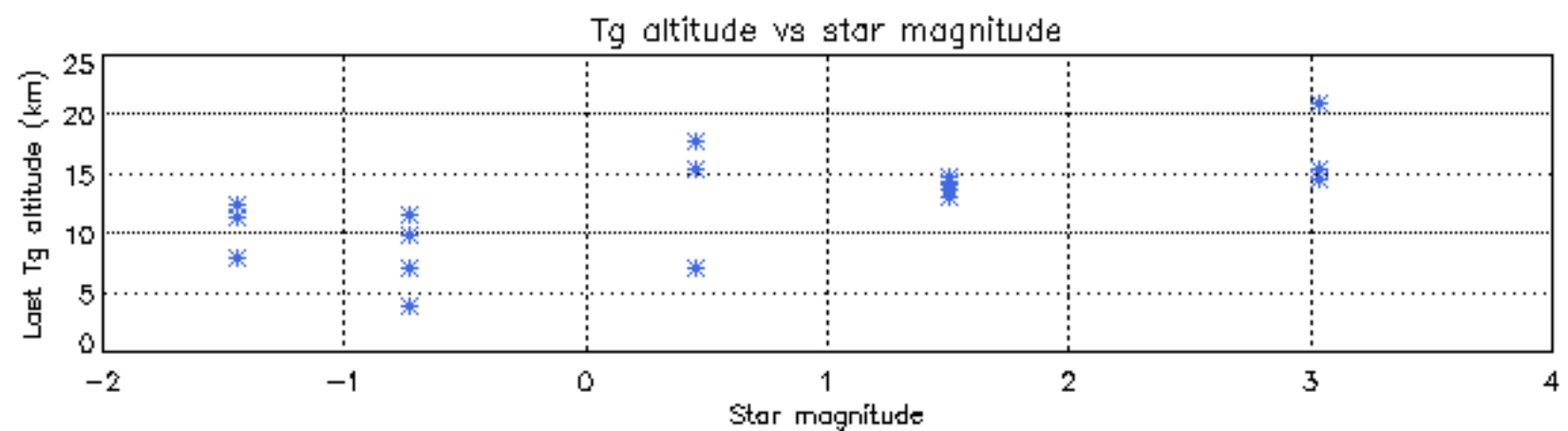
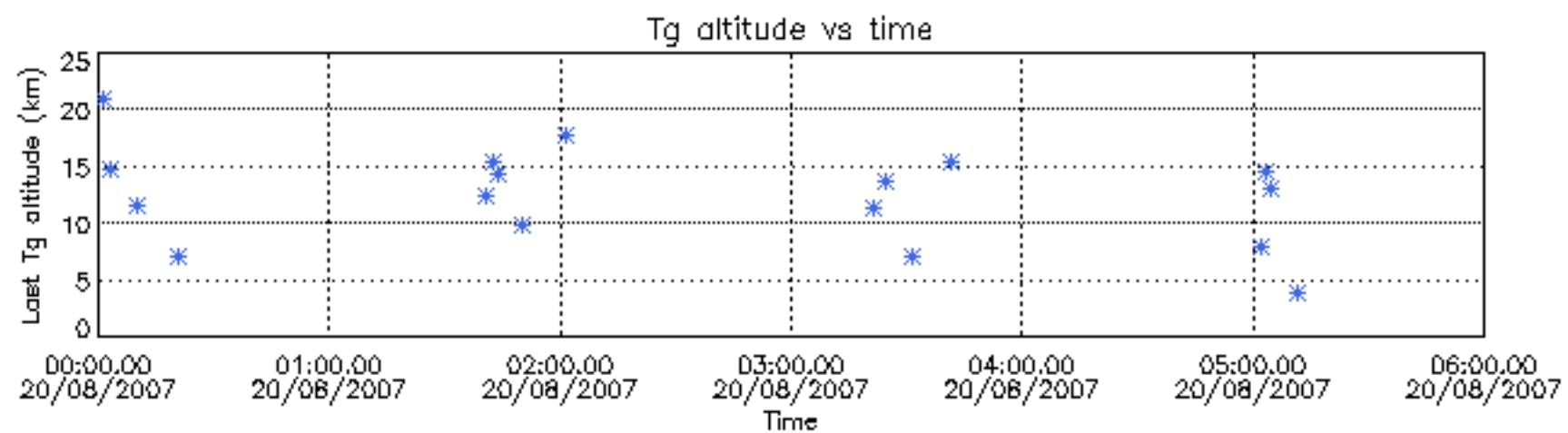
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

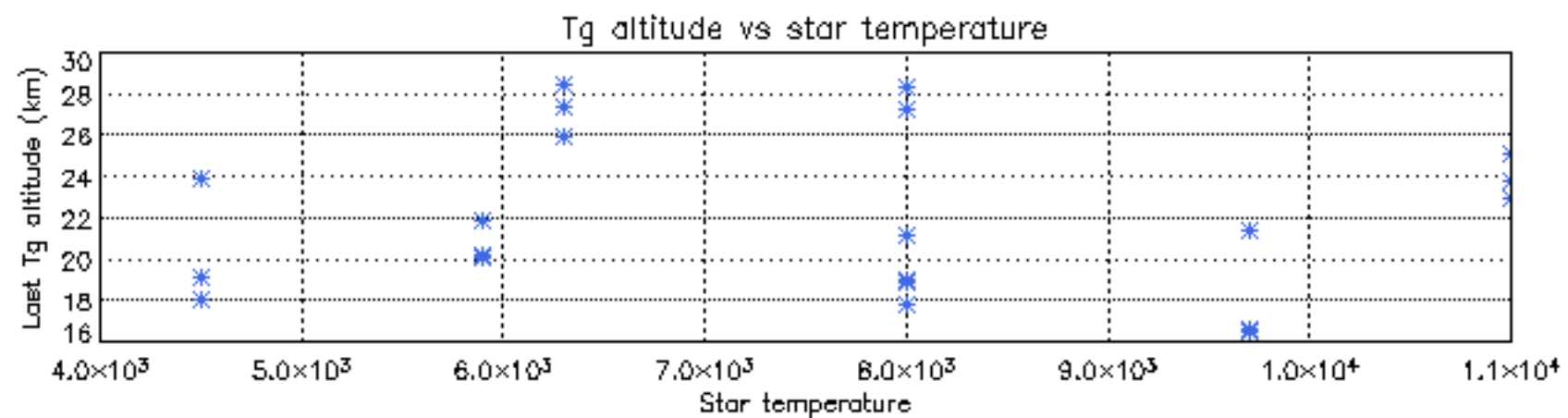
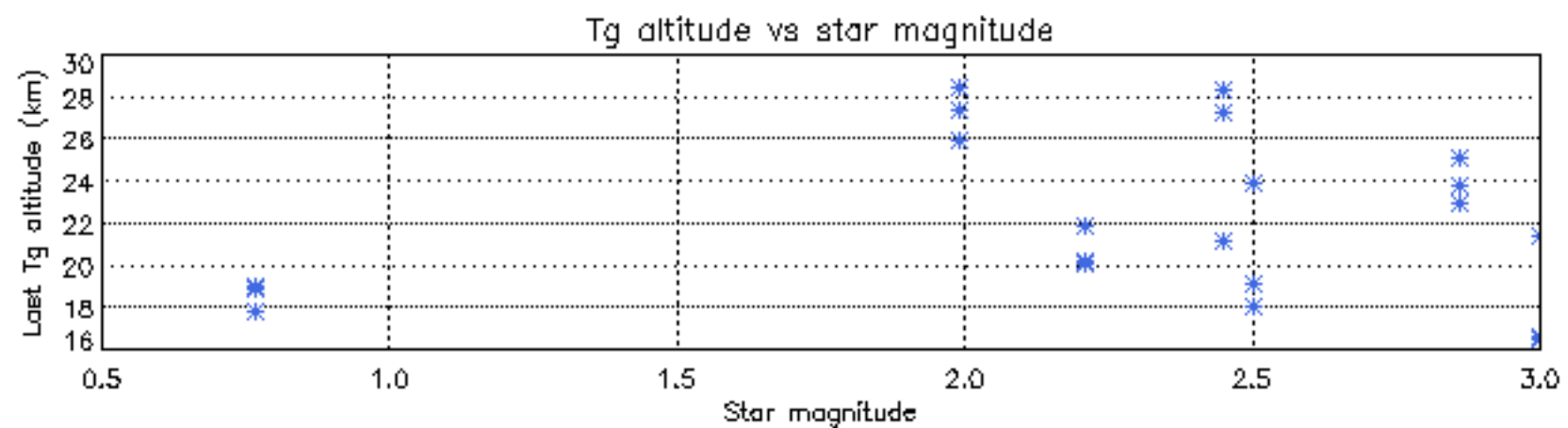
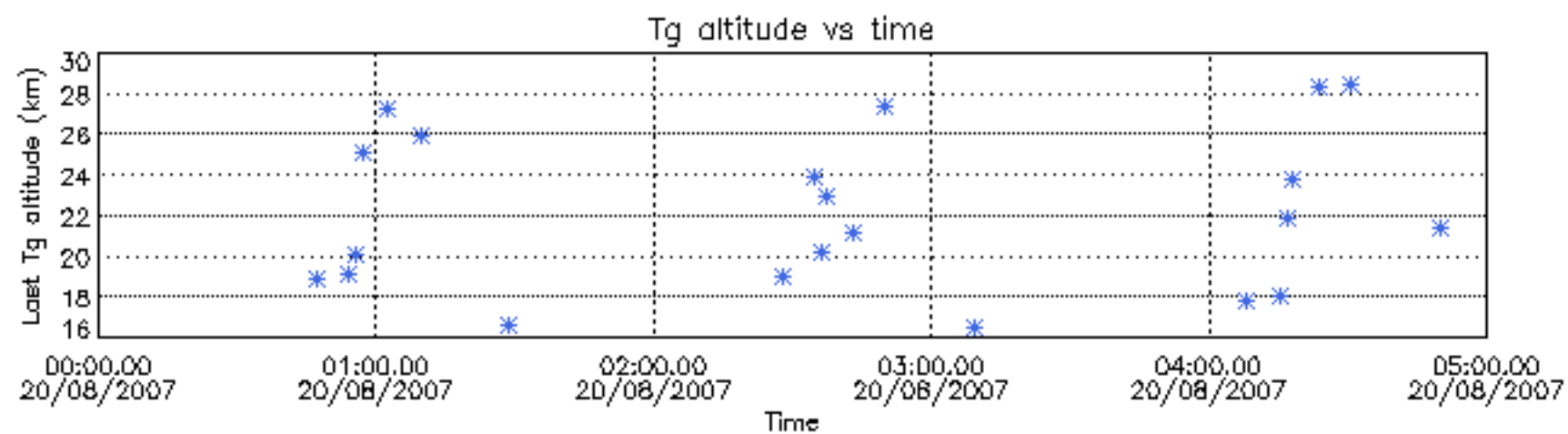


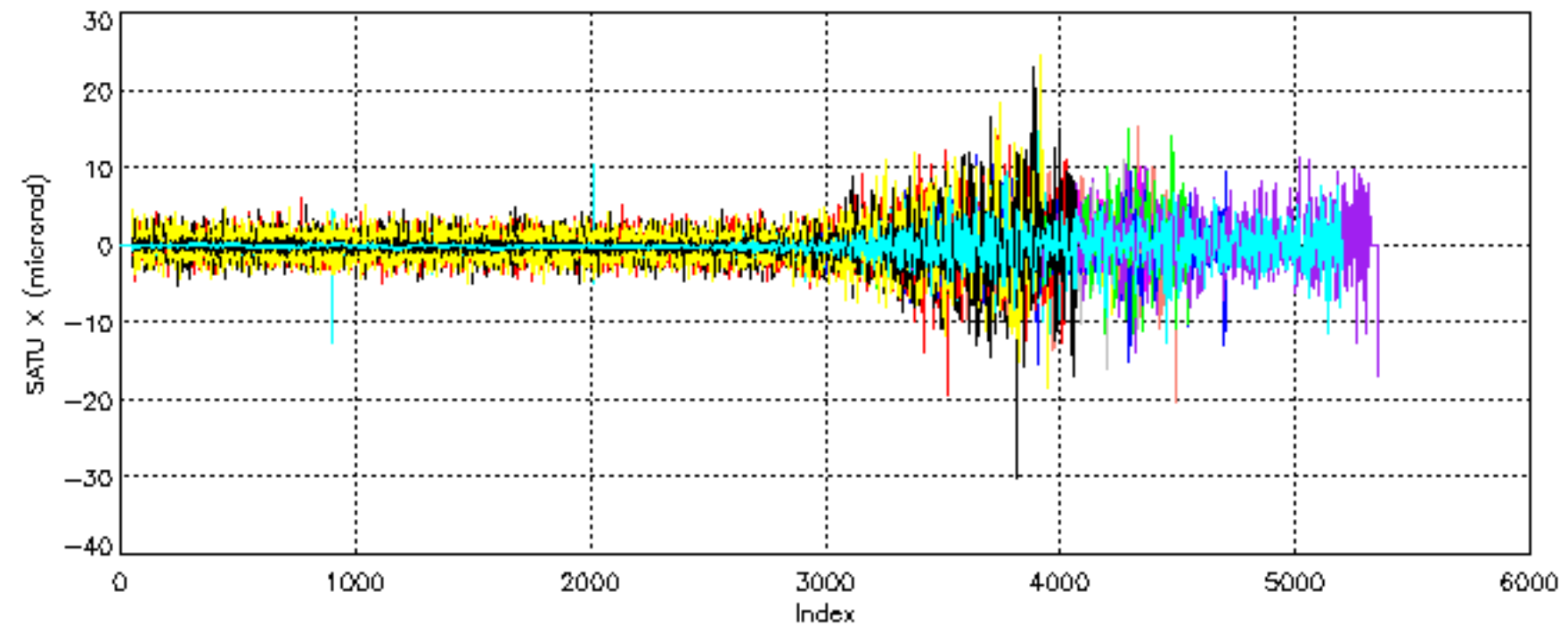
Tangent altitude at which the star is lost

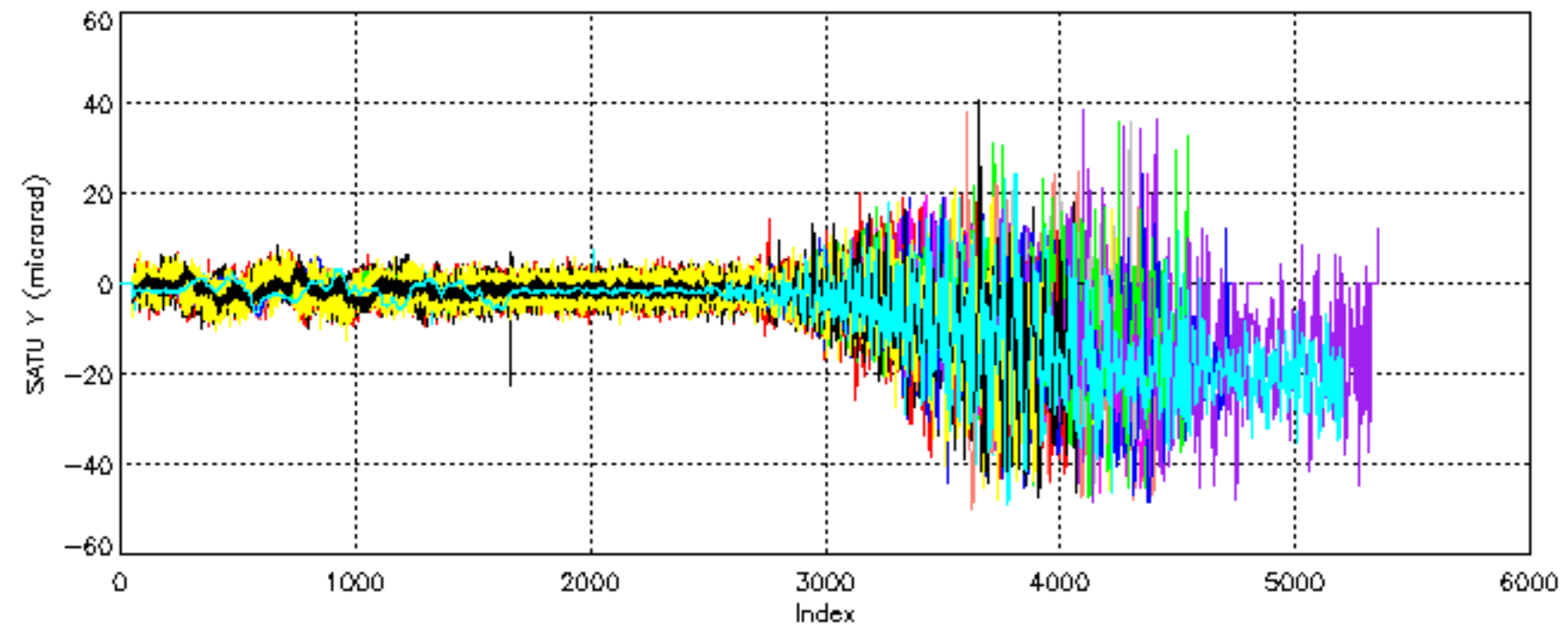




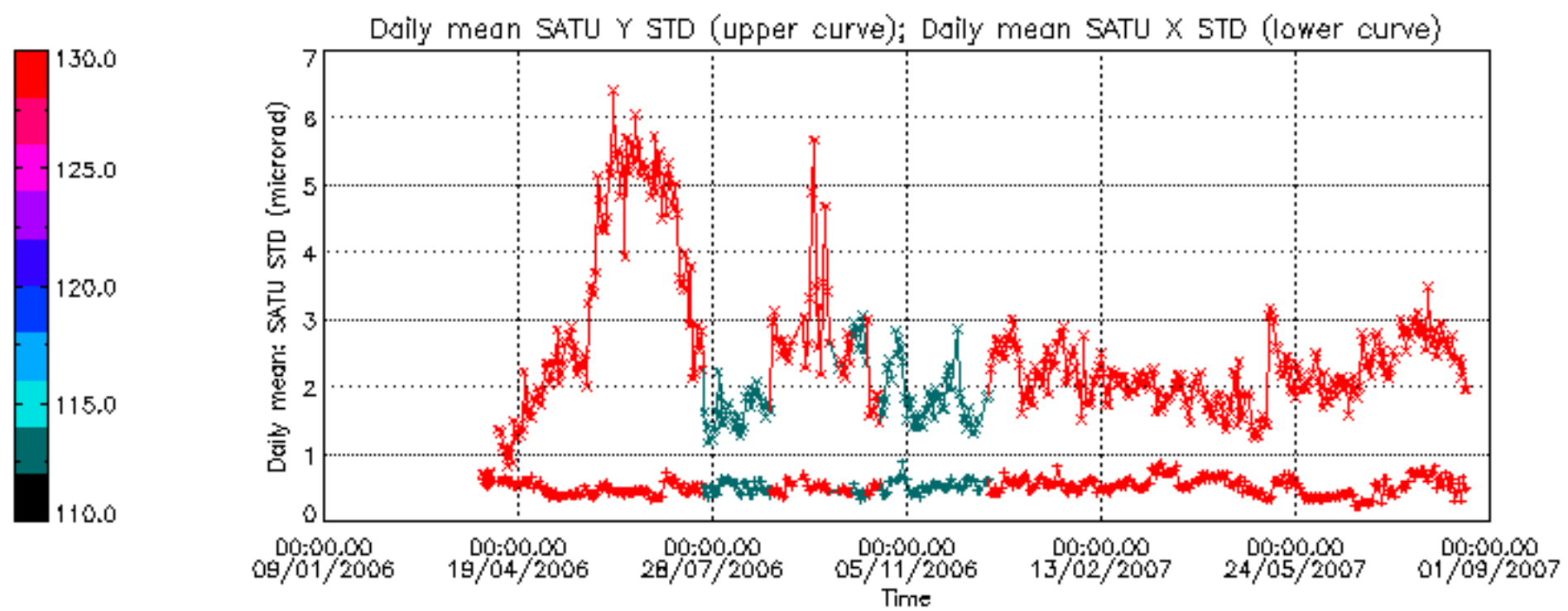
Tangent altitude at which the star is lost











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1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327  
 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

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 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  
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328  
 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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 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329  
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329  
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329  
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329  
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 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  
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 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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 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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3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339  
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339  
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  
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340  
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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17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340  
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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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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  
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12; 2798.4; 02-AUG-2007 00:23:59; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28341  
13; 3288.3; 02-AUG-2007 00:32:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28341  
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15; 4213.3; 02-AUG-2007 00:47:34; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;28341  
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2; 1896.8; 30-AUG-2007 08:52:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28747  
3; 2077.4; 30-AUG-2007 08:55:04; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;28747  
4; 2486.6; 30-AUG-2007 09:01:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28747

5; 2677.5; 30-AUG-2007 09:05:04; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28747  
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  
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747  
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14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747  
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747  
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747  
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747  
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747  
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747  
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747  
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  
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748  
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748  
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  
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748  
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748  
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748  
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748  
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748  
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748  
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748  
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748  
18; 6622.8; 30-AUG-2007 11:51:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28748  
19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748  
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21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748  
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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3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749  
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749  
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749  
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  
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749  
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749  
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749  
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749  
14; 5438.0; 30-AUG-2007 13:12:16; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 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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19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 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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21; 7078.5; 30-AUG-2007 15:20:12; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 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  
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751  
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751  
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751  
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751  
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3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752  
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  
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752  
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16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752  
17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752  
18; 5719.7; 30-AUG-2007 18:18:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28752  
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3; 1616.5; 30-AUG-2007 18:50:58; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28753

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6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
7; 2486.8; 30-AUG-2007 19:05:29; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28753
8; 2677.6; 30-AUG-2007 19:08:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28753
9; 2978.3; 30-AUG-2007 19:13:40; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28753
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11; 4449.2; 30-AUG-2007 19:38:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28753
12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 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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