

# GOMOS Daily Report 16-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	17AUG2007 13:56:31
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (16AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (17AUG2007 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)

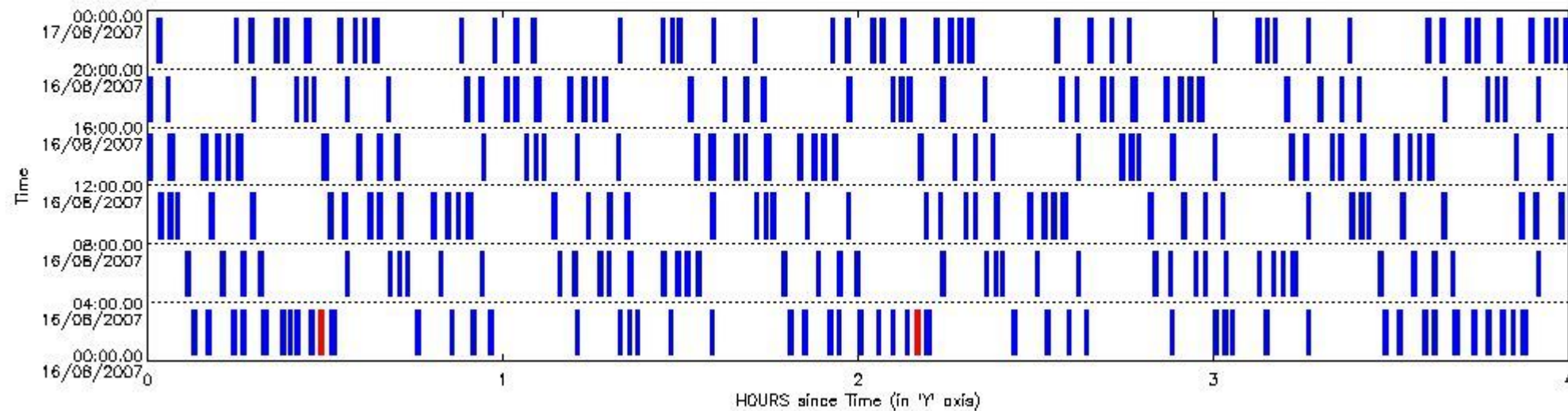
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
16-AUG-2007 00:28:51	1ZetCMa	177	28541
16-AUG-2007 02:09:28	1ZetCMa	177	28542
16-AUG-2007 21:04:39	GamGru	172	28554
16-AUG-2007 21:19:11	53AlpAql	11	28554
16-AUG-2007 21:26:27	53EpsCyg	92	28554
16-AUG-2007 21:28:03	37GamCyg	66	28554
16-AUG-2007 21:29:20	18DelCyg	144	28554
16-AUG-2007 21:35:00	5AlpCep	89	28554
16-AUG-2007 21:42:03	1AlpUMi	49	28554
16-AUG-2007 21:55:06	34BetAur	42	28554
16-AUG-2007 21:57:33	37TheAur	107	28554
16-AUG-2007 22:01:52	13MuGem	151	28554
16-AUG-2007 22:03:28	24GamGem	44	28554
16-AUG-2007 22:06:59	58AlpOri	14	28554
16-AUG-2007 22:12:36	9AlpCMa	1	28554

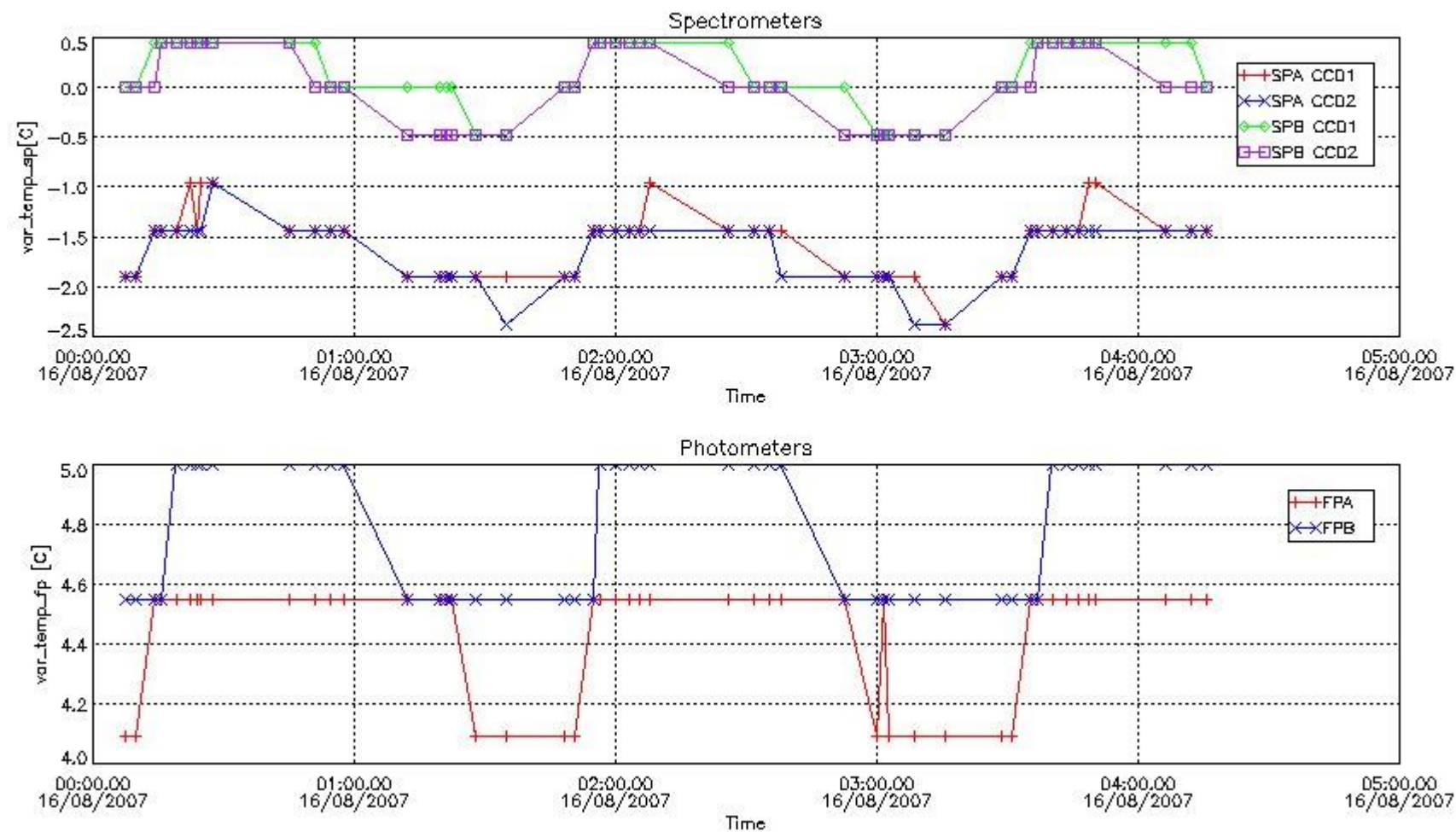
16-AUG-2007 22:15:03	11AlpLep	101	28554
16-AUG-2007 22:16:43	1ZetCMa	177	28554
16-AUG-2007 22:18:23	DSA1059	0	28554
16-AUG-2007 22:33:01	AlpEri	9	28555
16-AUG-2007 22:38:44	AlpTuc	148	28555
16-AUG-2007 22:42:18	AlpGru	31	28555
16-AUG-2007 22:45:16	GamGru	172	28555
16-AUG-2007 22:59:47	53AlpAql	11	28555
16-AUG-2007 23:07:03	53EpsCyg	92	28555
16-AUG-2007 23:08:38	37GamCyg	66	28555
16-AUG-2007 23:09:56	18DelCyg	144	28555
16-AUG-2007 23:15:36	5AlpCep	89	28555
16-AUG-2007 23:22:39	1AlpUMi	49	28555
16-AUG-2007 23:35:42	34BetAur	42	28555
16-AUG-2007 23:38:09	37TheAur	107	28555
16-AUG-2007 23:42:29	13MuGem	151	28555
16-AUG-2007 23:44:04	24GamGem	44	28555
16-AUG-2007 23:47:36	58AlpOri	14	28555
16-AUG-2007 23:53:12	9AlpCMa	1	28555
16-AUG-2007 23:55:40	11AlpLep	101	28555
16-AUG-2007 23:57:20	1ZetCMa	177	28555
16-AUG-2007 23:58:59	DSA1059	0	28555

#### 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_1PNPDE20070816_000727_000000372060_00431_28541_9058.N1	16-AUG-2007 00:07:27	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	28541	No
2	GOM_TRA_1PNPDE20070816_000953_000000482060_00431_28541_9059.N1	16-AUG-2007 00:09:53	Bright	48.000	107	37The Aur	2.6490	11000.	96	28541	No
3	GOM_TRA_1PNPDE20070816_001411_000000452060_00431_28541_9060.N1	16-AUG-2007 00:14:11	Twilight	45.000	151	13Mu Gem	2.8900	3000.0	90	28541	No
4	GOM_TRA_1PNPDE20070816_001546_000000412060_00431_28541_9061.N1	16-AUG-2007 00:15:46	Twilight	41.000	44	24Gam Gem	1.9280	11000.	82	28541	No
5	GOM_TRA_1PNPDE20070816_001914_000000532060_00431_28541_9062.N1	16-AUG-2007 00:19:14	Dark	52.500	14	58Alp Ori	0.87000	3000.0	105	28541	No
6	GOM_TRA_1PNPDE20070816_002228_000000462060_00431_28541_9063.N1	16-AUG-2007 00:22:28	Dark	46.000	33	50Zet Ori	1.7660	30000.	92	28541	No
7	GOM_TRA_1PNPDE20070816_002350_000000252060_00431_28541_9064.N1	16-AUG-2007 00:23:50	Dark	25.000	125	44Iot Ori	2.7700	30000.	50	28541	No
8	GOM_TRA_1PNPDE20070816_002453_000000402060_00431_28541_9065.N1	16-AUG-2007 00:24:53	Dark	39.500	1	9Alp CMa	-1.4400	11000.	79	28541	No
9	GOM_TRA_1PNPDE20070816_002715_000000452060_00431_28541_9203.N1	16-AUG-2007 00:27:15	Dark	44.500	101	11Alp Lep	2.5820	7000.0	89	28541	No
10	GOM_TRA_1PNPDE20070816_004513_000000432060_00432_28542_9204.N1	16-AUG-2007 00:45:13	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28542	No
11	GOM_TRA_1PNPDE20070816_005100_000000422060_00432_28542_9205.N1	16-AUG-2007 00:51:00	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28542	No
12	GOM_TRA_1PNPDE20070816_005434_000000452060_00432_28542_9206.N1	16-AUG-2007 00:54:34	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	28542	No
13	GOM_TRA_1PNPDE20070816_005732_000000412060_00432_28542_9207.N1	16-AUG-2007 00:57:32	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	28542	No
14	GOM_TRA_1PNPDE20070816_011206_000000382060_00432_28542_9208.N1	16-AUG-2007 01:12:06	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	28542	No
15	GOM_TRA_1PNPDE20070816_011926_000000392060_00432_28542_9209.N1	16-AUG-2007 01:19:26	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	28542	No
16	GOM_TRA_1PNPDE20070816_012101_000000382060_00432_28542_9210.N1	16-AUG-2007 01:21:01	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	28542	No
17	GOM_TRA_1PNPDE20070816_012217_000000352060_00432_28542_9211.N1	16-AUG-2007 01:22:17	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	28542	No
18	GOM_TRA_1PNPDE20070816_012800_000000382060_00432_28542_9212.N1	16-AUG-2007 01:28:00	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28542	No
19	GOM_TRA_1PNPDE20070816_013500_000000372060_00432_28542_9213.N1	16-AUG-2007 01:35:00	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28542	No
20	GOM_TRA_1PNPDE20070816_014803_000000572060_00432_28542_9214.N1	16-AUG-2007 01:48:03	Bright	57.000	42	34Bet Aur	1.9000	10200.	114	28542	No
21	GOM_TRA_1PNPDE20070816_015029_000000522060_00432_28542_9215.N1	16-AUG-2007 01:50:29	Bright	52.000	107	37The Aur	2.6490	11000.	104	28542	No
22	GOM_TRA_1PNPDE20070816_015447_000000472060_00432_28542_9216.N1	16-AUG-2007 01:54:47	Twilight	46.500	151	13Mu Gem	2.8900	3000.0	93	28542	No
23	GOM_TRA_1PNPDE20070816_015622_000000412060_00432_28542_9217.N1	16-AUG-2007 01:56:22	Twilight	40.500	44	24Gam Gem	1.9280	11000.	81	28542	No
24	GOM_TRA_1PNPDE20070816_015950_000000522060_00432_28542_9218.N1	16-AUG-2007 01:59:50	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	28542	No
25	GOM_TRA_1PNPDE20070816_020305_000000362060_00432_28542_9339.N1	16-AUG-2007 02:03:05	Dark	36.000	33	50Zet Ori	1.7660	30000.	72	28542	No
26	GOM_TRA_1PNPDE20070816_020529_000000392060_00432_28542_9340.N1	16-AUG-2007 02:05:29	Dark	38.500	1	9Alp CMa	-1.4400	11000.	77	28542	No
27	GOM_TRA_1PNPDE20070816_020752_000000432060_00432_28542_9341.N1	16-AUG-2007 02:07:52	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	28542	No
28	GOM_TRA_1PNPDE20070816_022549_000000462060_00433_28543_9342.N1	16-AUG-2007 02:25:49	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28543	No
29	GOM_TRA_1PNPDE20070816_023137_000000442060_00433_28543_9343.N1	16-AUG-2007 02:31:37	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	28543	No
30	GOM_TRA_1PNPDE20070816_023510_000000402060_00433_28543_9344.N1	16-AUG-2007 02:35:10	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28543	No
31	GOM_TRA_1PNPDE20070816_023809_000000422060_00433_28543_9345.N1	16-AUG-2007 02:38:09	Straylight	41.500	172	Gam Gru	3.0030	13100.	83	28543	No
32	GOM_TRA_1PNPDE20070816_025242_000000362060_00433_28543_9346.N1	16-AUG-2007 02:52:42	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	28543	No

33	GOM_TRA_1PNPDE20070816_030002_000000392060_00433_28543_9347.N1	16-AUG-2007 03:00:02	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	28543	No
34	GOM_TRA_1PNPDE20070816_030137_000000392060_00433_28543_9348.N1	16-AUG-2007 03:01:37	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	28543	No
35	GOM_TRA_1PNPDE20070816_030253_000000352060_00433_28543_9349.N1	16-AUG-2007 03:02:53	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	28543	No
36	GOM_TRA_1PNPDE20070816_030836_000000352060_00433_28543_9350.N1	16-AUG-2007 03:08:36	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	28543	No
37	GOM_TRA_1PNPDE20070816_031536_000000332060_00433_28543_9351.N1	16-AUG-2007 03:15:36	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28543	No
38	GOM_TRA_1PNPDE20070816_032839_000000402060_00433_28543_9496.N1	16-AUG-2007 03:28:39	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	28543	No
39	GOM_TRA_1PNPDE20070816_033105_000000382060_00433_28543_9497.N1	16-AUG-2007 03:31:05	Bright	37.500	107	37The Aur	2.6490	11000.	75	28543	No
40	GOM_TRA_1PNPDE20070816_033523_000000482060_00433_28543_9498.N1	16-AUG-2007 03:35:23	Twilight	48.000	151	13Mu Gem	2.8900	3000.0	96	28543	No
41	GOM_TRA_1PNPDE20070816_033658_000000412060_00433_28543_9499.N1	16-AUG-2007 03:36:58	Twilight	40.500	44	24Gam Gem	1.9280	11000.	81	28543	No
42	GOM_TRA_1PNPDE20070816_034027_000000572060_00433_28543_9500.N1	16-AUG-2007 03:40:27	Dark	57.000	14	58Alp Ori	0.87000	3000.0	114	28543	No
43	GOM_TRA_1PNPDE20070816_034341_000000362060_00433_28543_9501.N1	16-AUG-2007 03:43:41	Dark	36.000	33	50Zet Ori	1.7660	30000.	72	28543	No
44	GOM_TRA_1PNPDE20070816_034605_000000342060_00433_28543_9502.N1	16-AUG-2007 03:46:05	Dark	34.000	1	9Alp CMa	-1.4400	11000.	68	28543	No
45	GOM_TRA_1PNPDE20070816_034828_000000482060_00433_28543_9503.N1	16-AUG-2007 03:48:28	Dark	48.000	101	11Alp Lep	2.5820	7000.0	96	28543	No
46	GOM_TRA_1PNPDE20070816_035012_000000402060_00433_28543_9504.N1	16-AUG-2007 03:50:12	Dark	39.500	177	1Zet CMa	3.0220	26000.	79	28543	No
47	GOM_TRA_1PNPDE20070816_040626_000000472060_00434_28544_9505.N1	16-AUG-2007 04:06:26	Dark	46.500	9	Alp Eri	0.45300	24000.	93	28544	No
48	GOM_TRA_1PNPDE20070816_041213_000000402060_00434_28544_9506.N1	16-AUG-2007 04:12:13	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28544	No
49	GOM_TRA_1PNPDE20070816_041547_000000412060_00434_28544_9507.N1	16-AUG-2007 04:15:47	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	28544	No

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



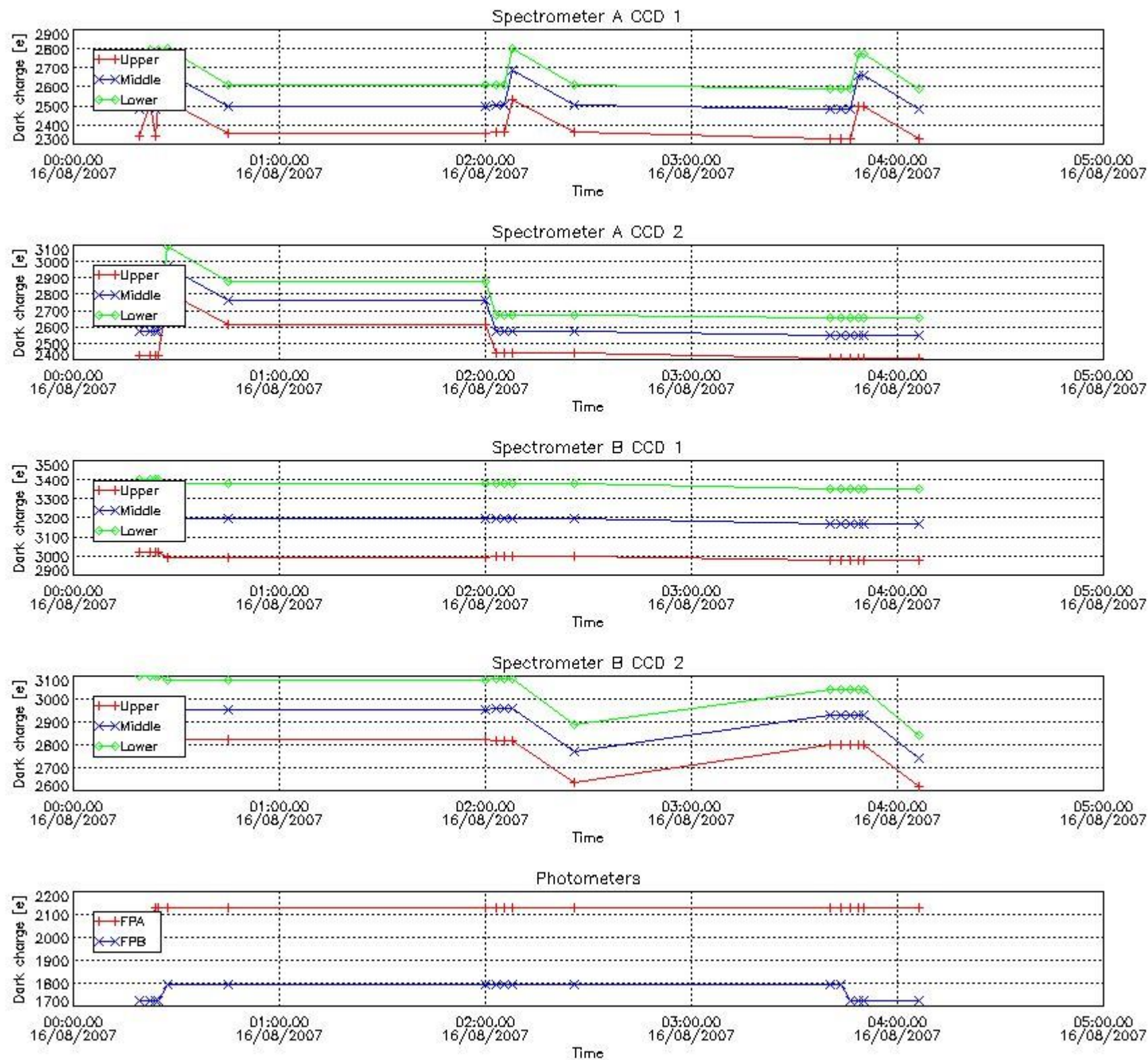
### 4. Overview of dark signal processing per product

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



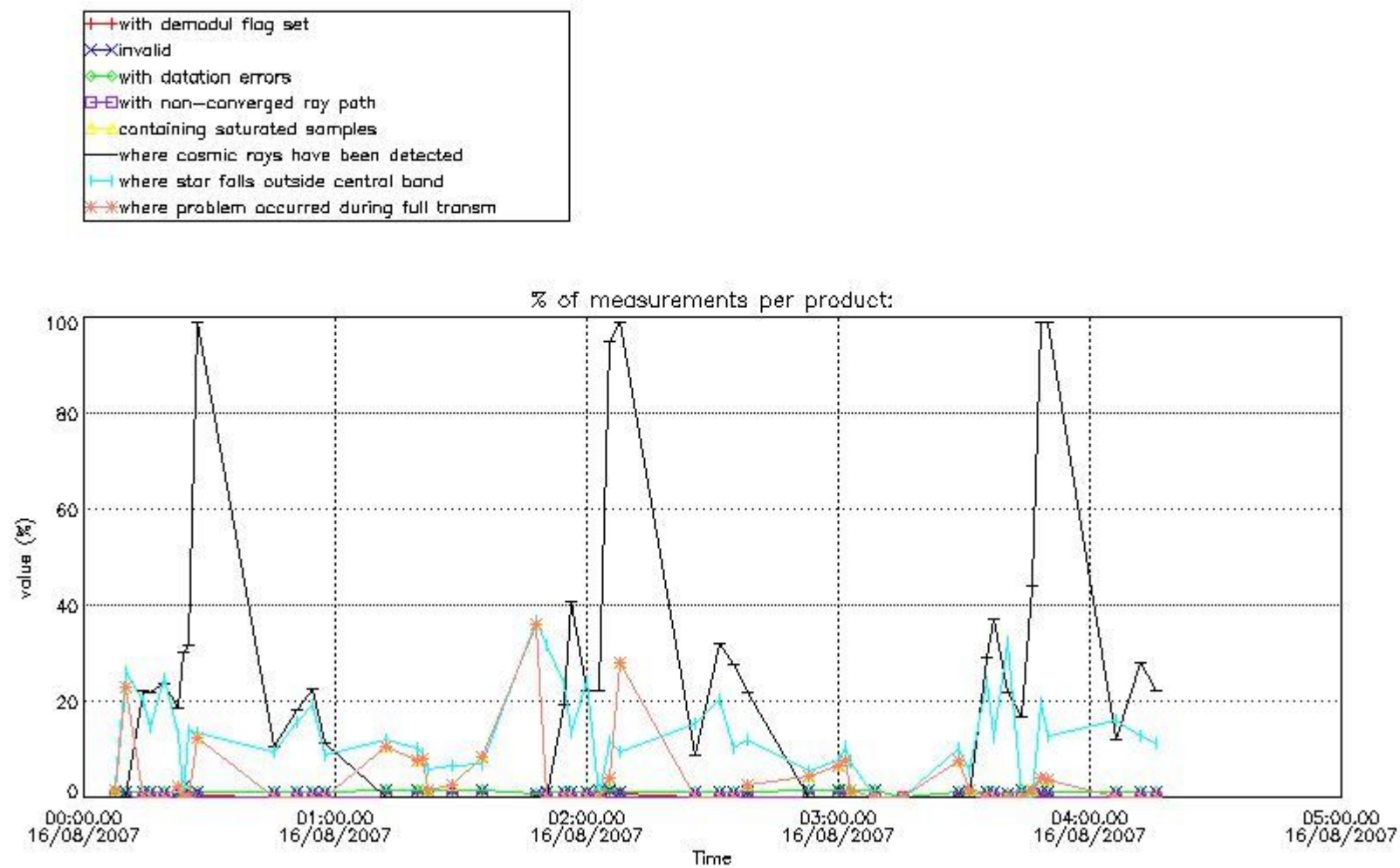
#### 5. Demodulation flag and quality information monitoring

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.

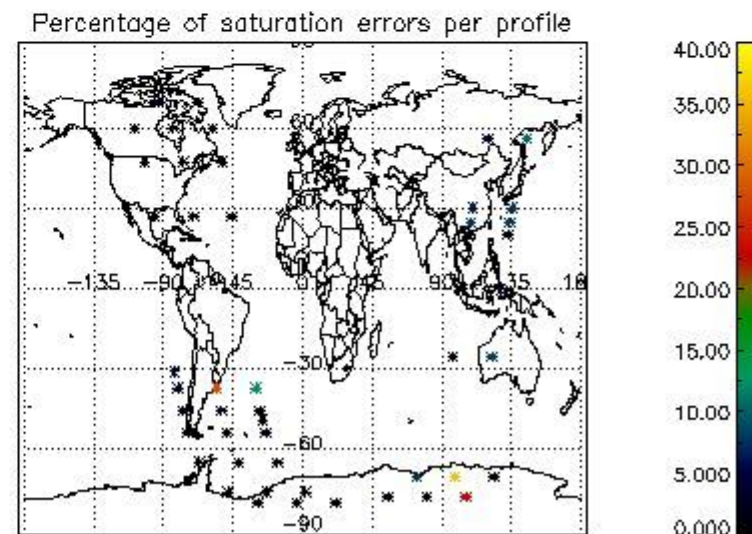
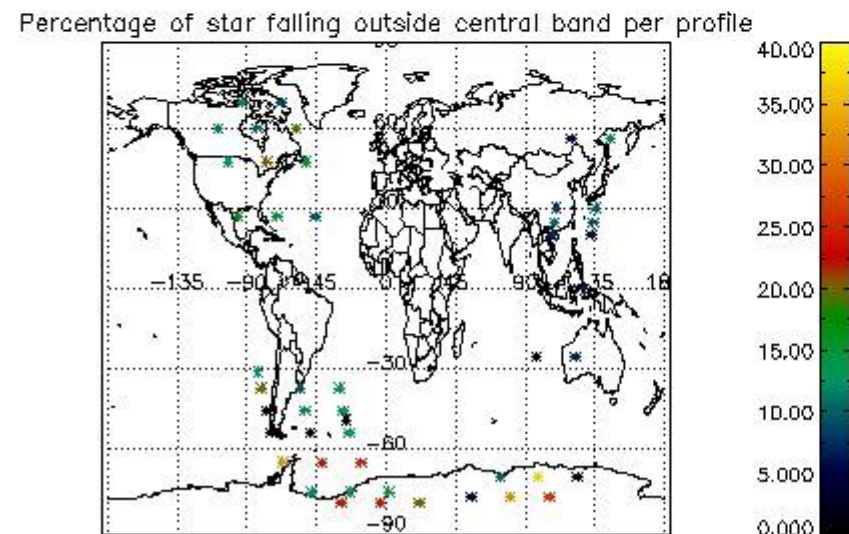
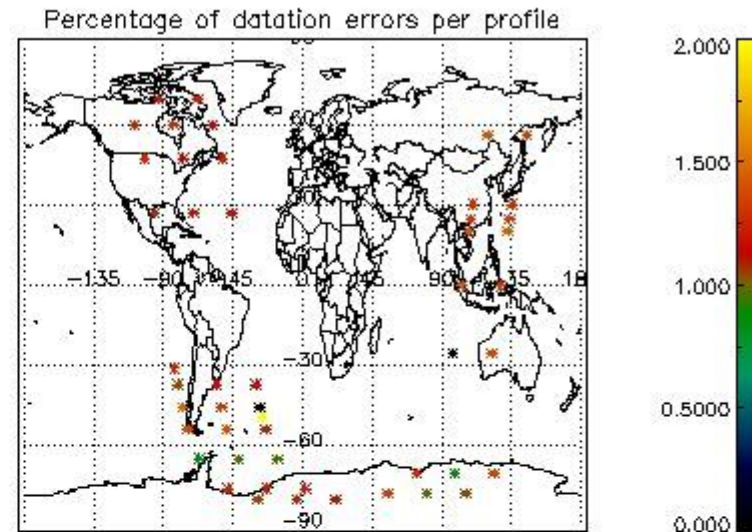
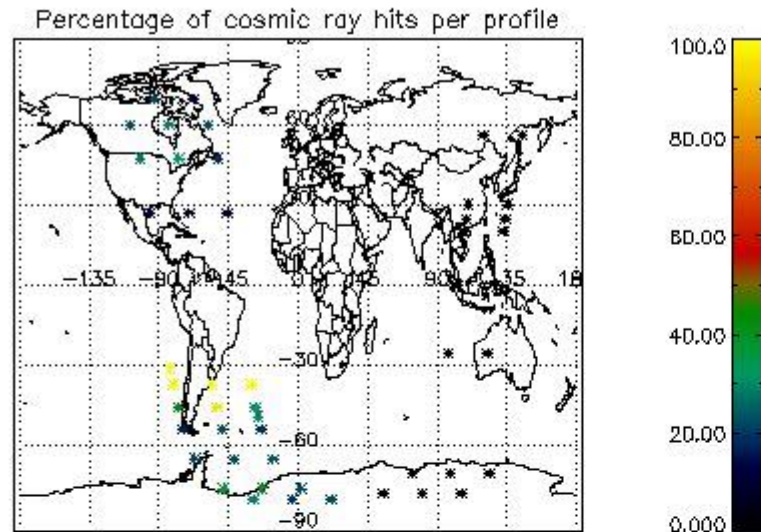
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)



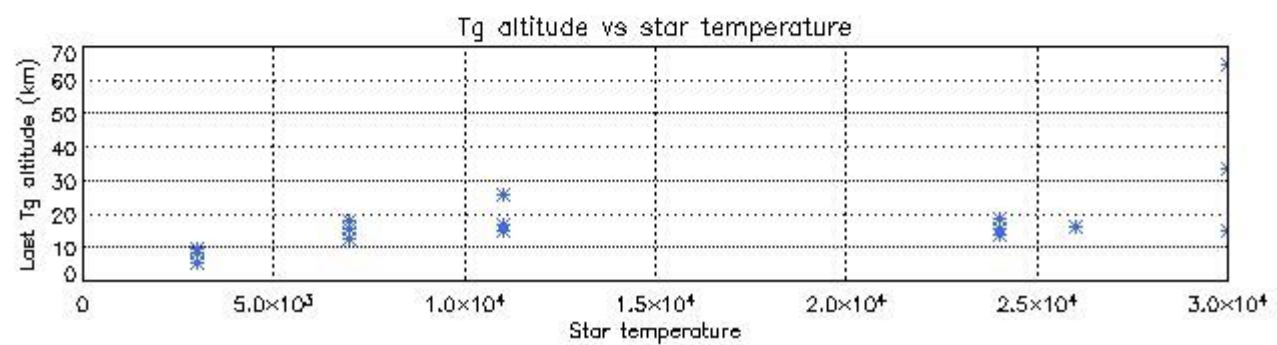
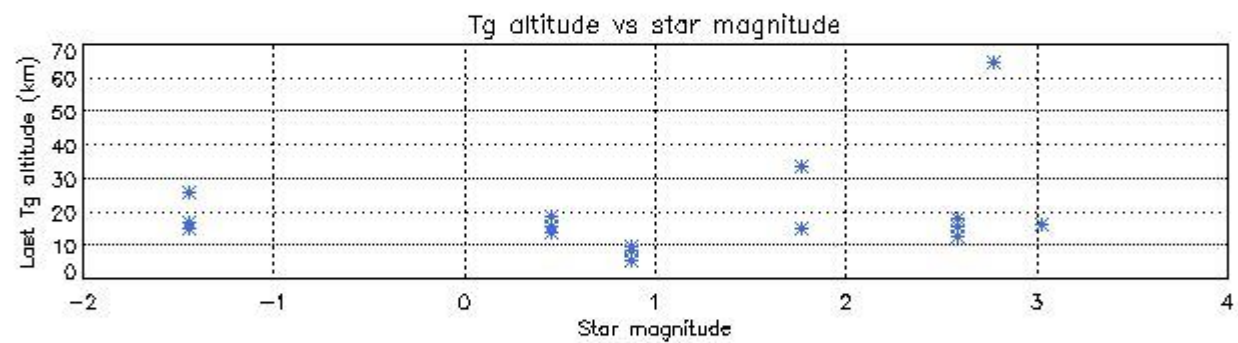
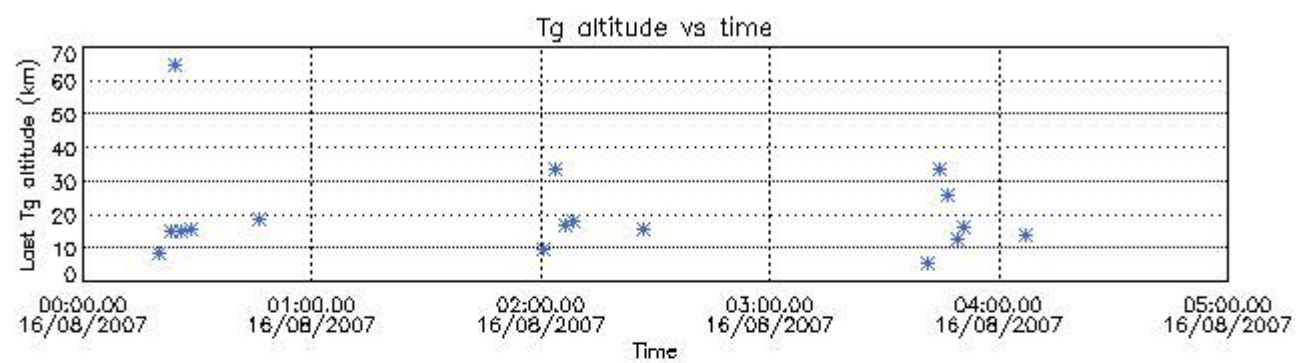
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.846	19.228	NaN
St. deviation:	13.843	6.2982	NaN
Maximum:	64.750	28.684	NaN
Minimum:	5.6364	3.8750	NaN
Number of data:	17.000	18.000	NaN

### 6.2 Plot for DARK limb products

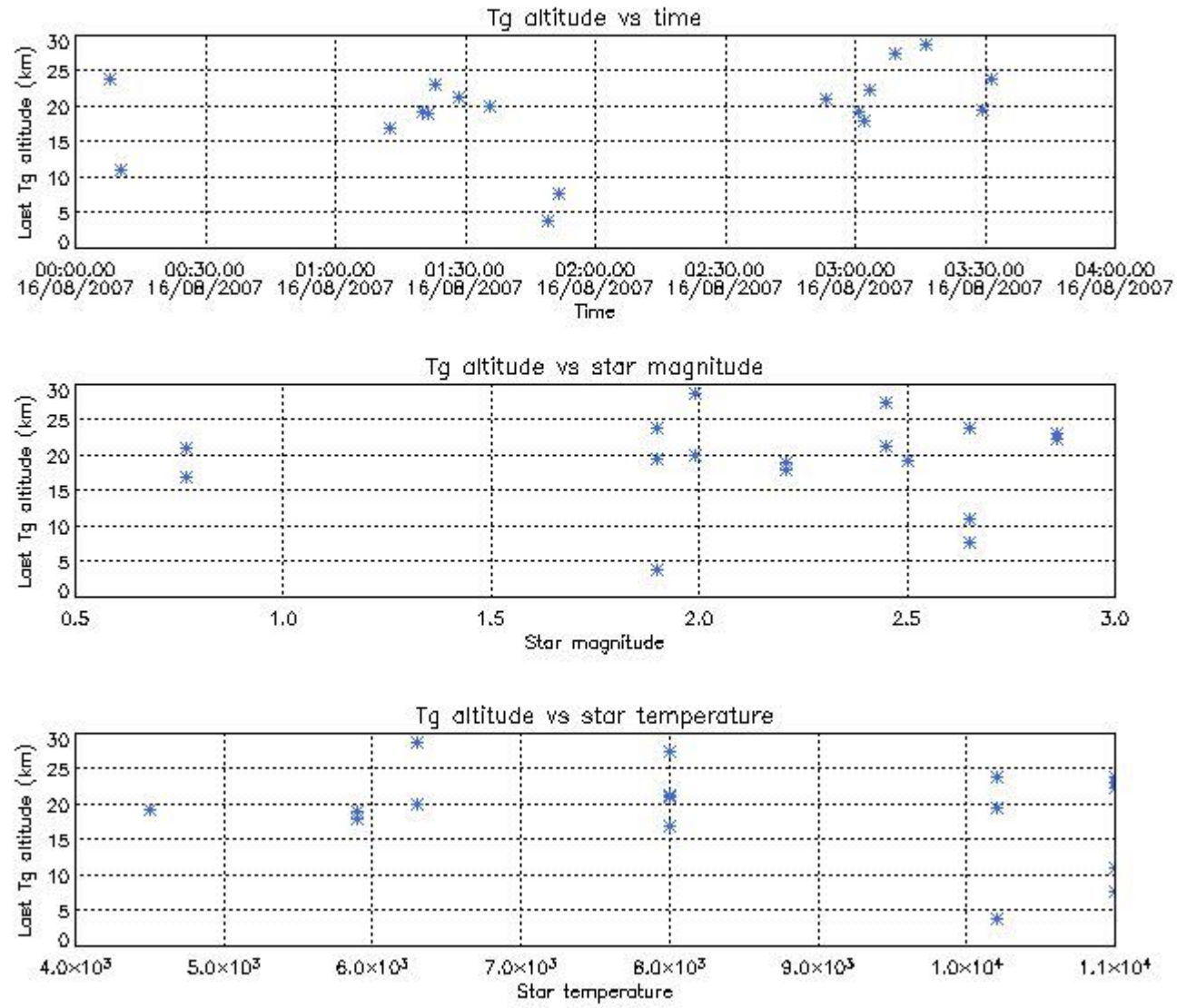
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

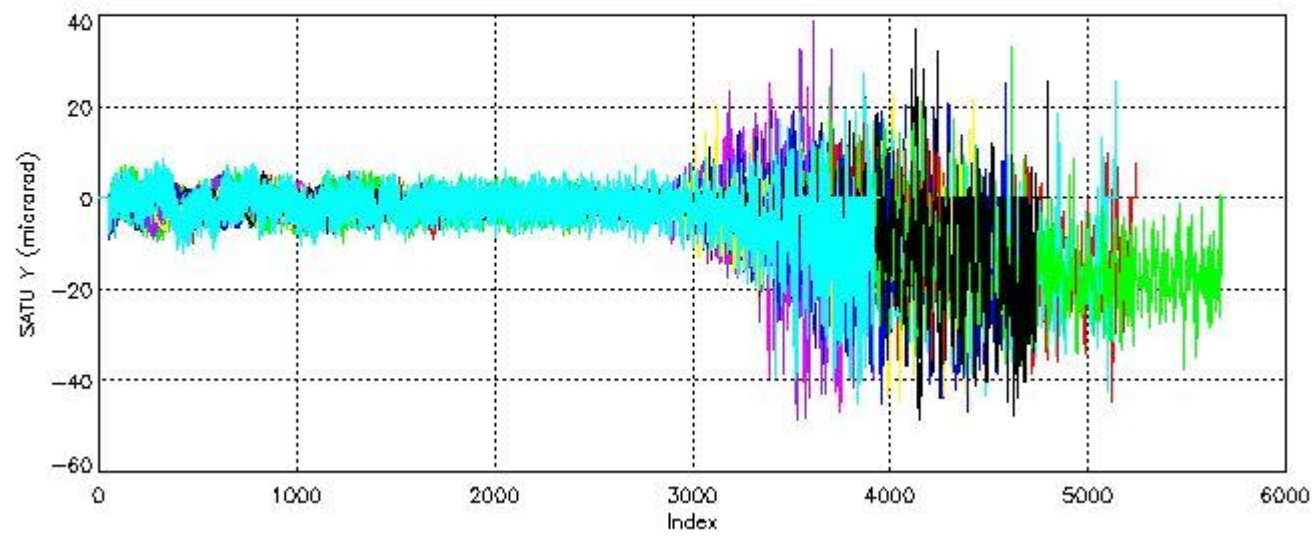
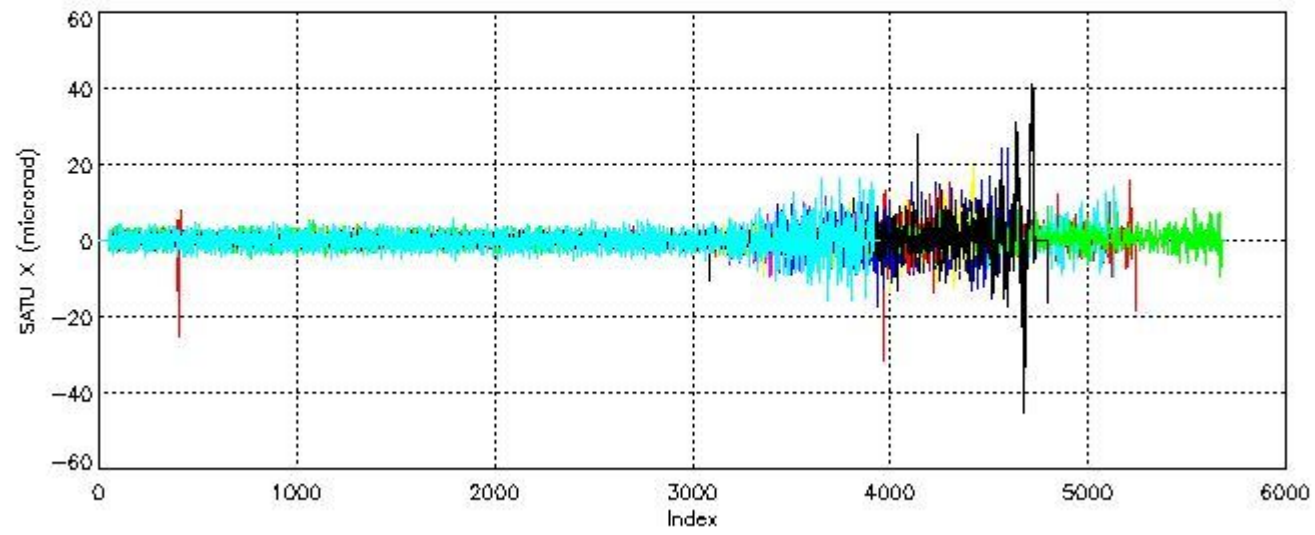


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.14807	-1.2175	0.12843	-1.1696
St. deviation:	0.56816	2.4156	0.81844	2.5209
Maximum:	7.7000	8.4000	5.6000	9.5000
Minimum:	-25.200	-12.100	-5.8000	-11.600

Number of data:	16750.	16750.	15200.	15200.
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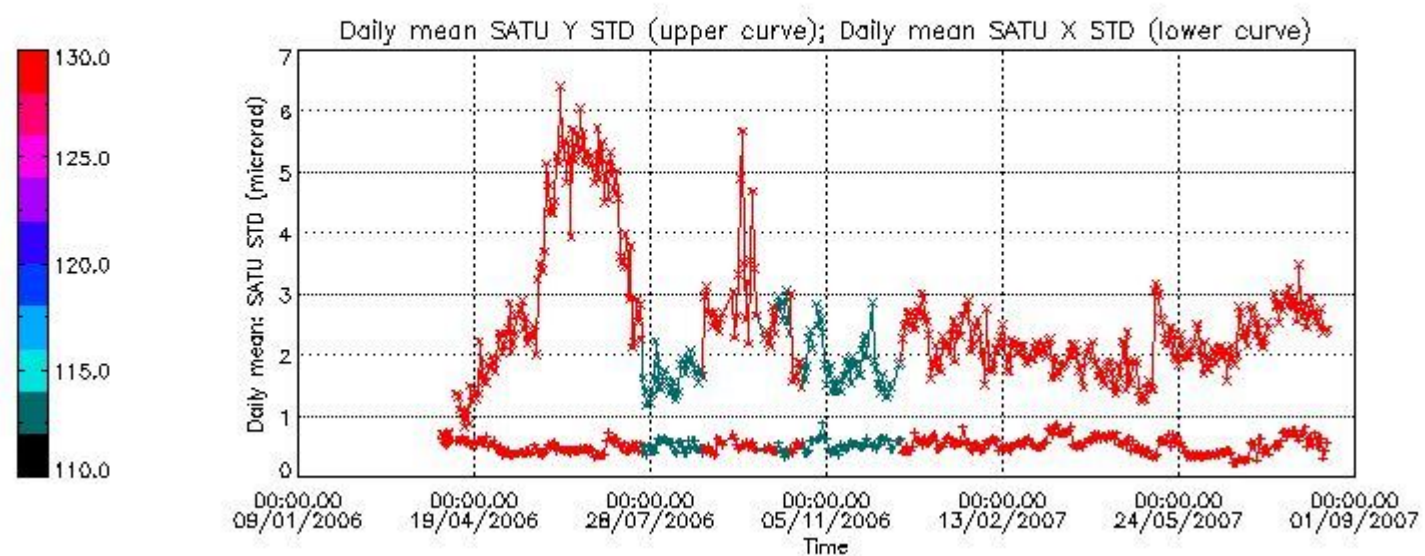
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

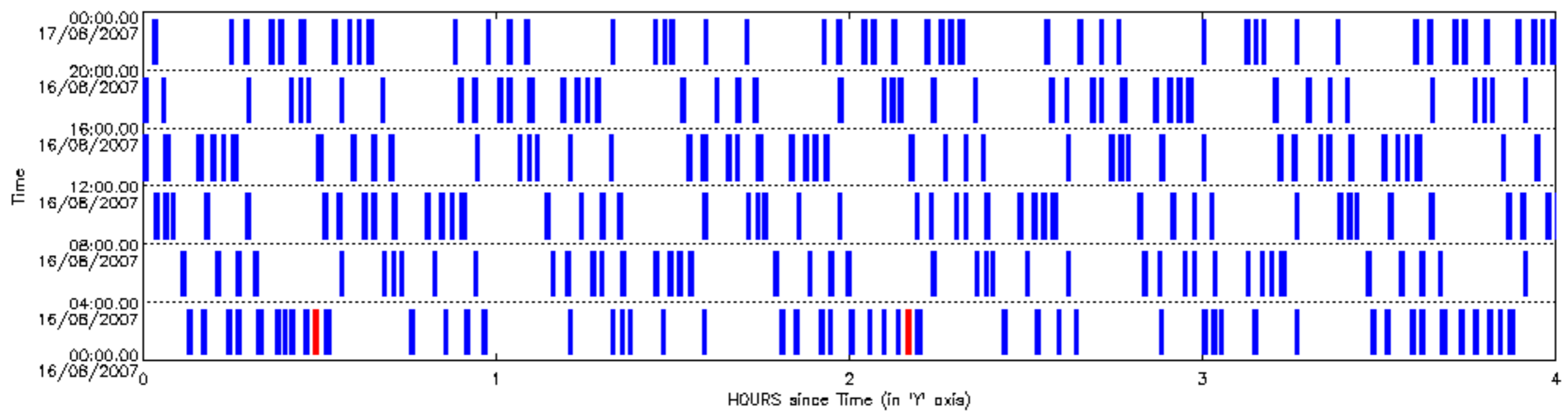
Lower curve: STD of SATU X axis

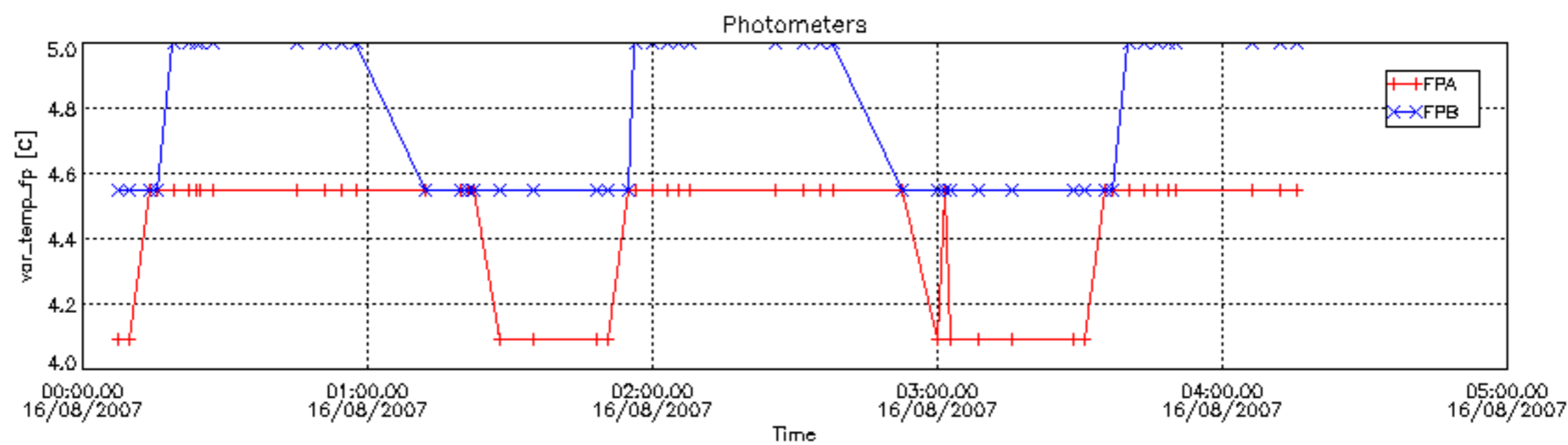
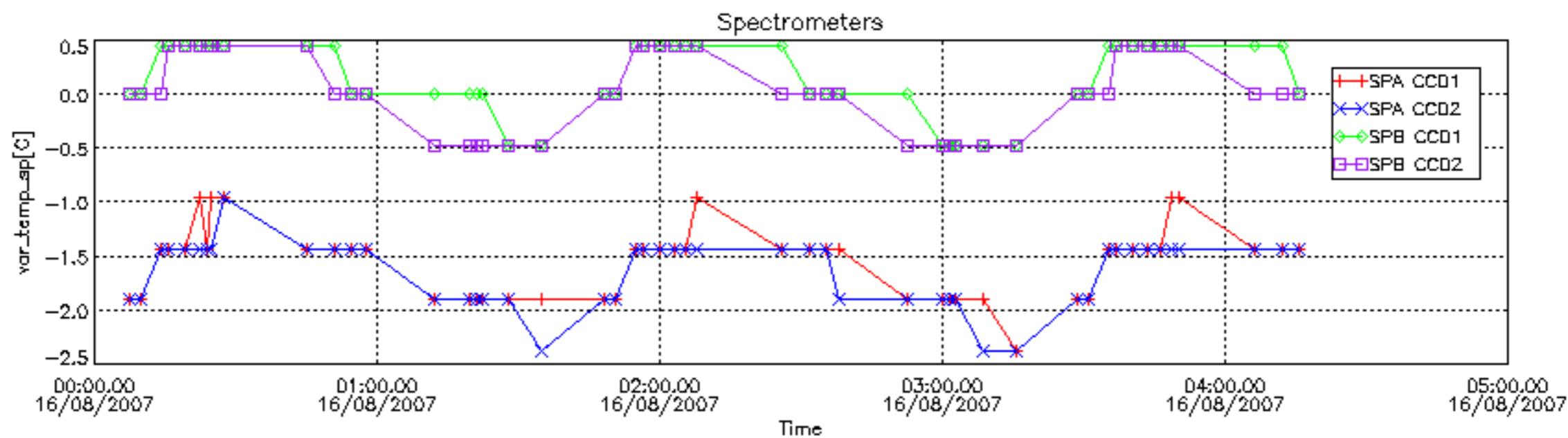


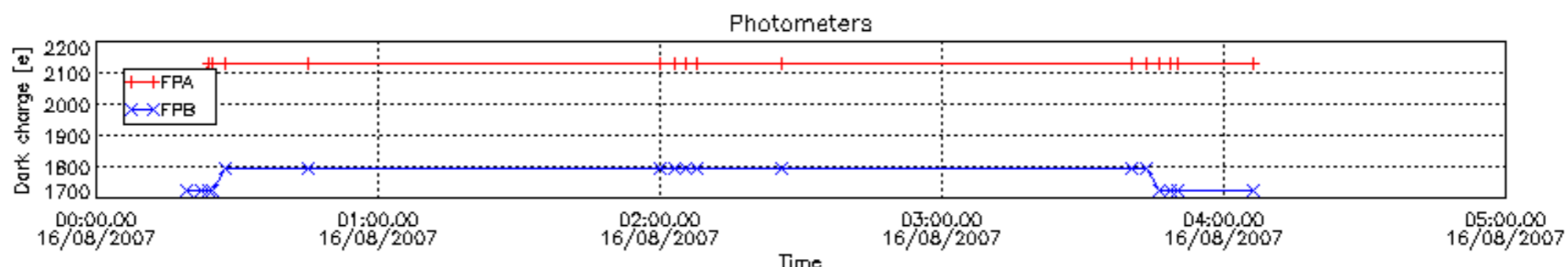
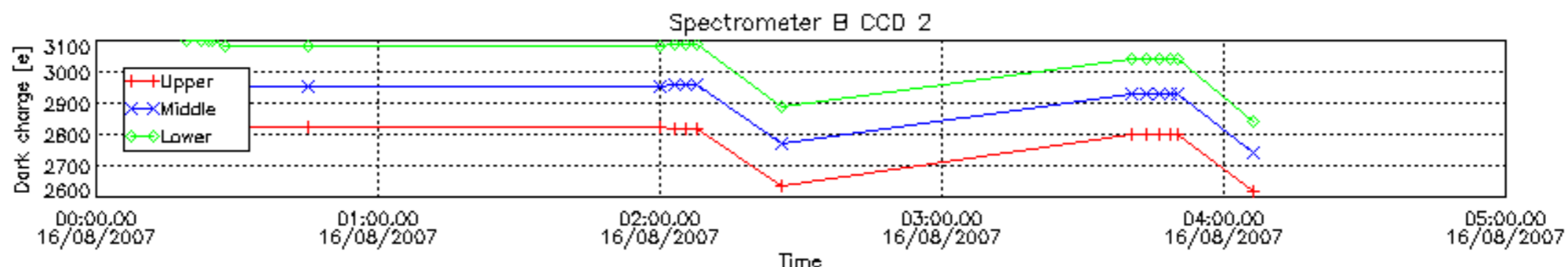
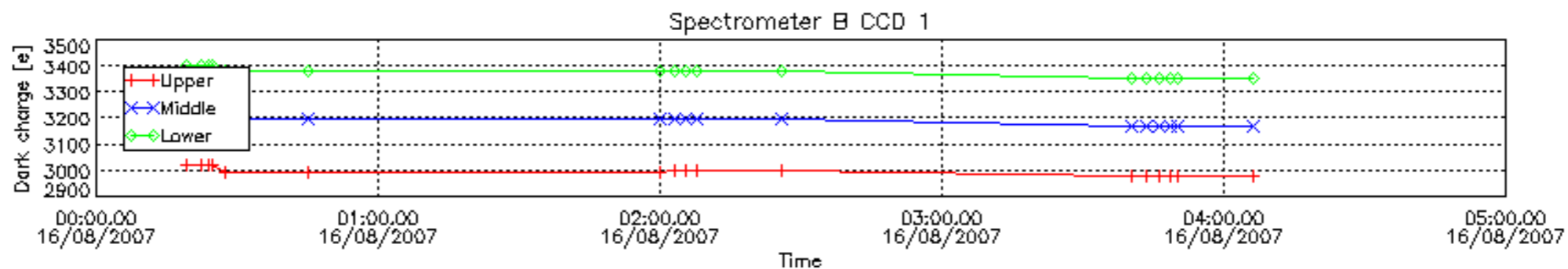
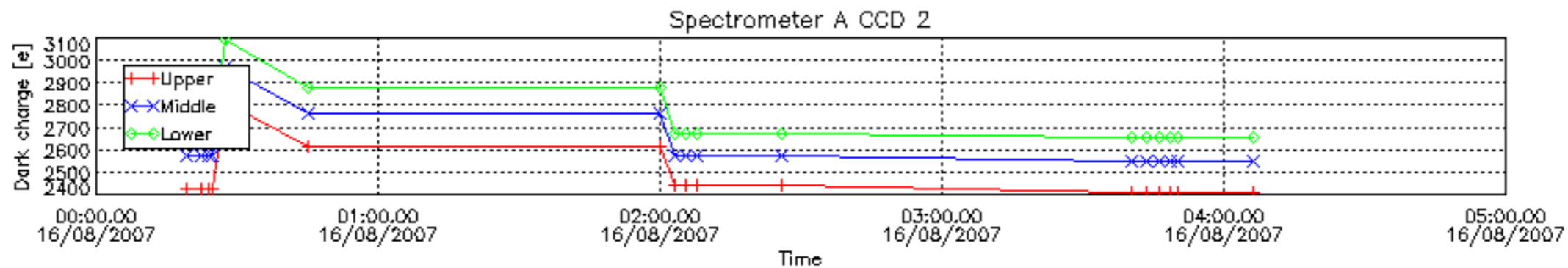
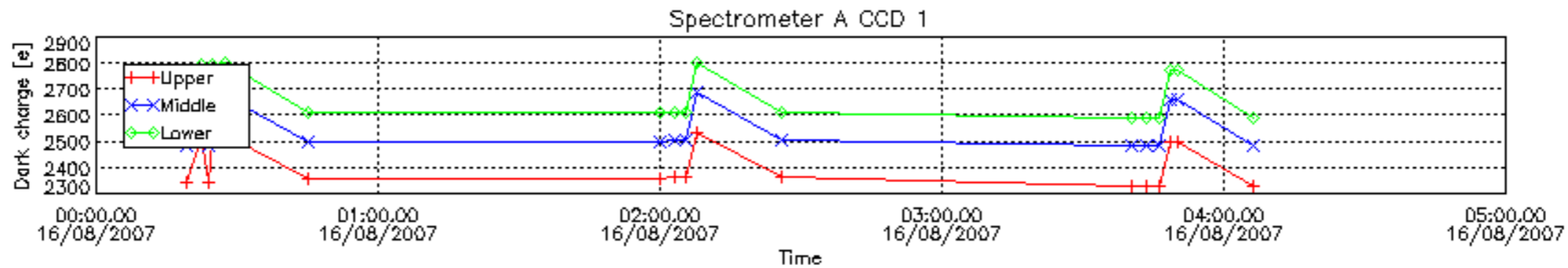
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	16-AUG-2007 00:07:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070814_104912_20070813_000000_20100101_000000	1	16-AUG-2007 00:07:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-AUG-2007 00:07:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-AUG-2007 00:07:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-AUG-2007 00:07:27
ECMWF_FILE	AUX_ECF_AXNECM20070815_062113_20070815_210000_20070816_090000	1	16-AUG-2007 00:07:27
ECMWF_FILE	AUX_ECF_AXNECM20070815_182113_20070816_030000_20070816_150000	38	16-AUG-2007 03:28:39
OPTIONAL_ECMWF_FILE	MISSING	1	16-AUG-2007 00:07:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070815_205702_000060572060_00429_28539_3977.N1	1	16-AUG-2007 00:07:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070815_224318_000057382060_00430_28540_3978.N1	9	16-AUG-2007 00:27:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070816_002415_000054192060_00431_28541_3979.N1	25	16-AUG-2007 02:03:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070816_015953_000041442060_00432_28542_3980.N1	38	16-AUG-2007 03:28:39

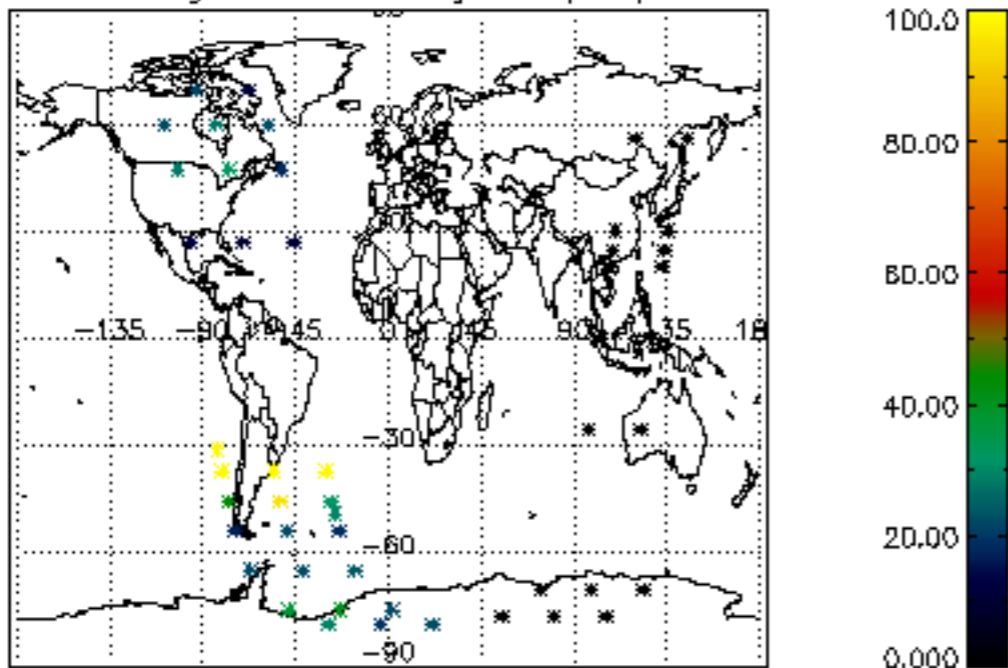




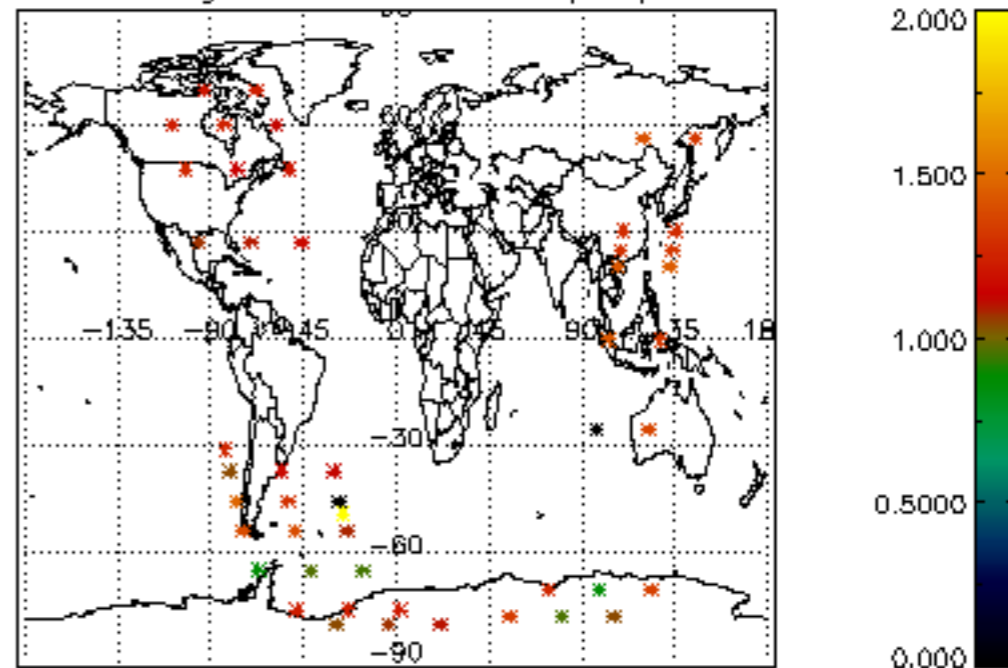




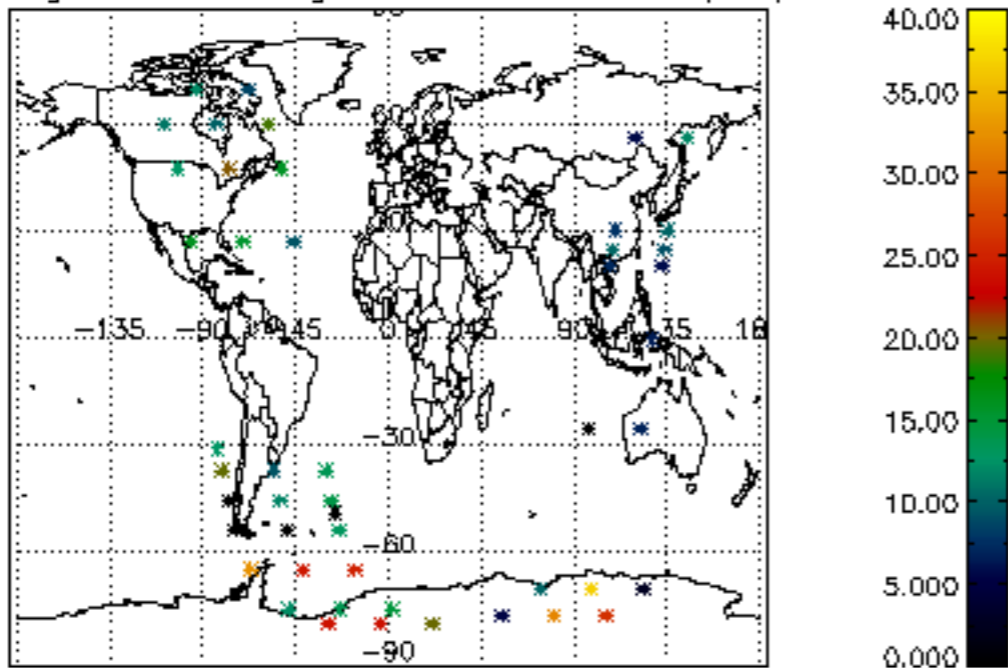
Percentage of cosmic ray hits per profile



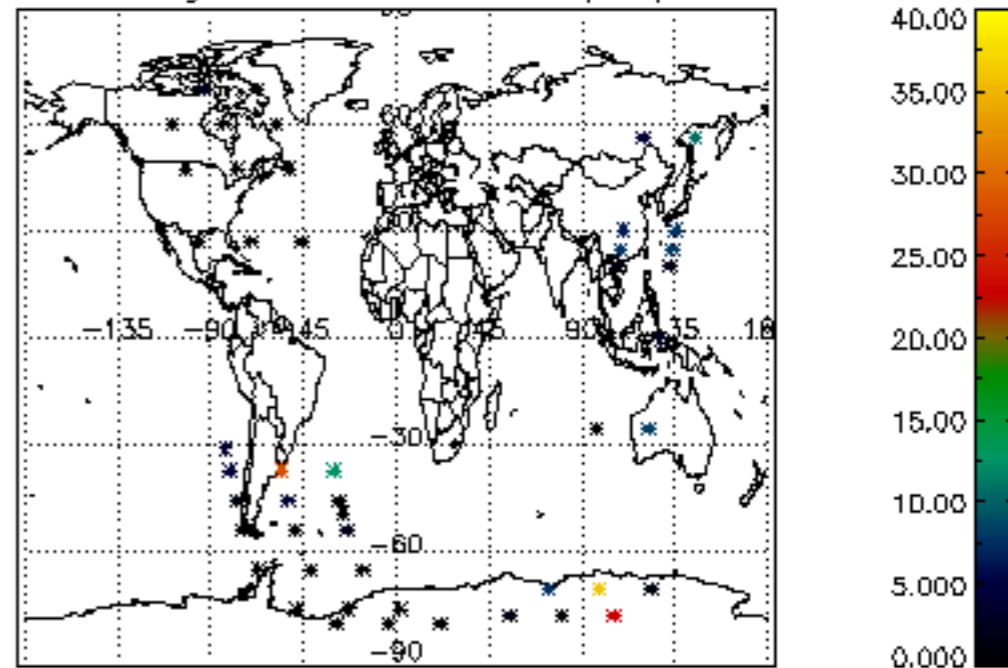
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

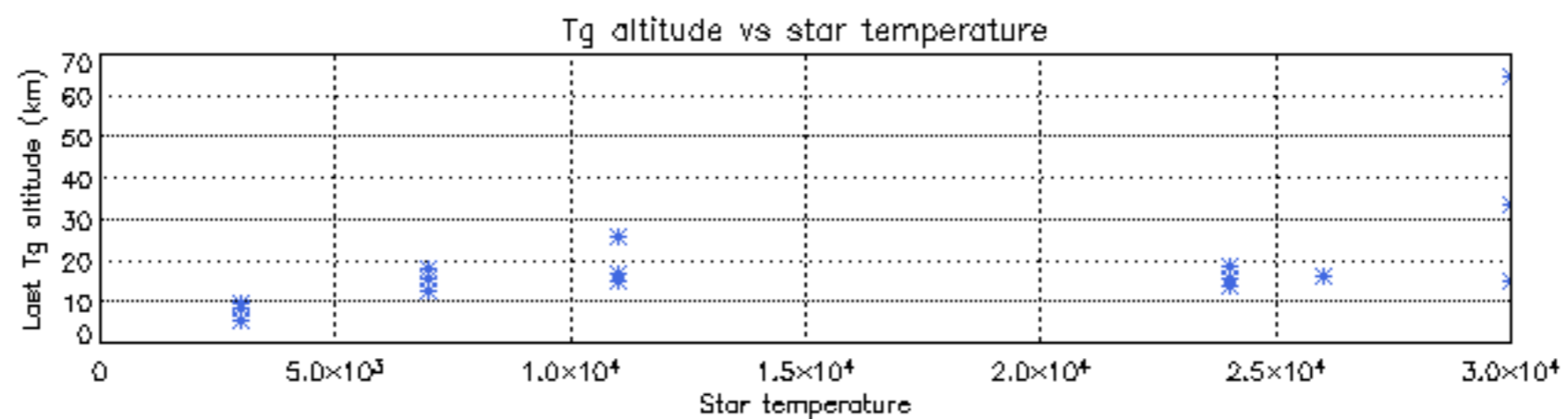
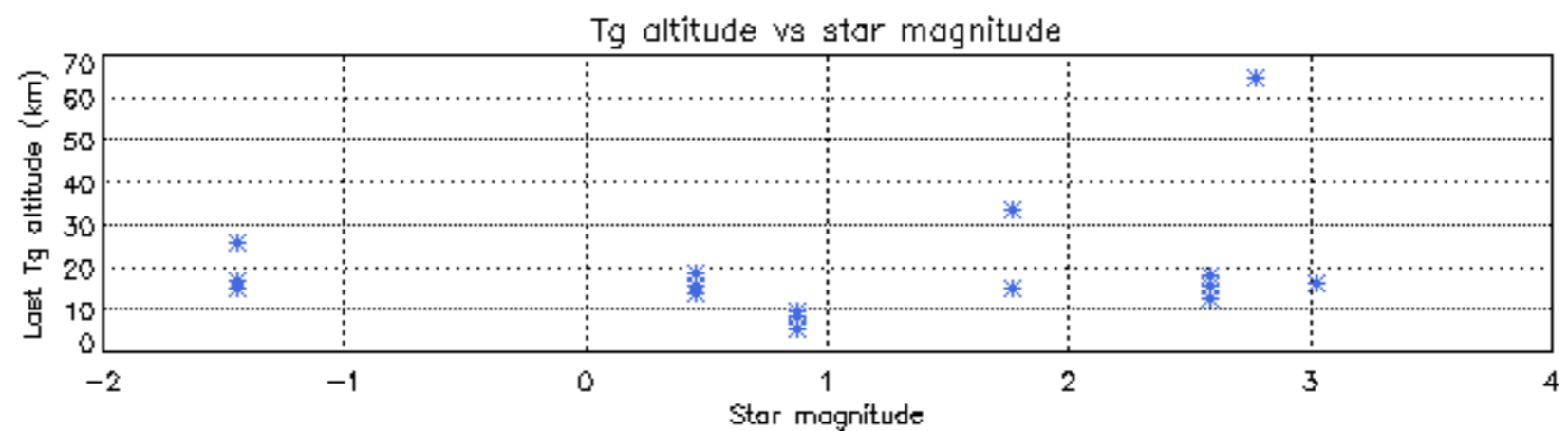
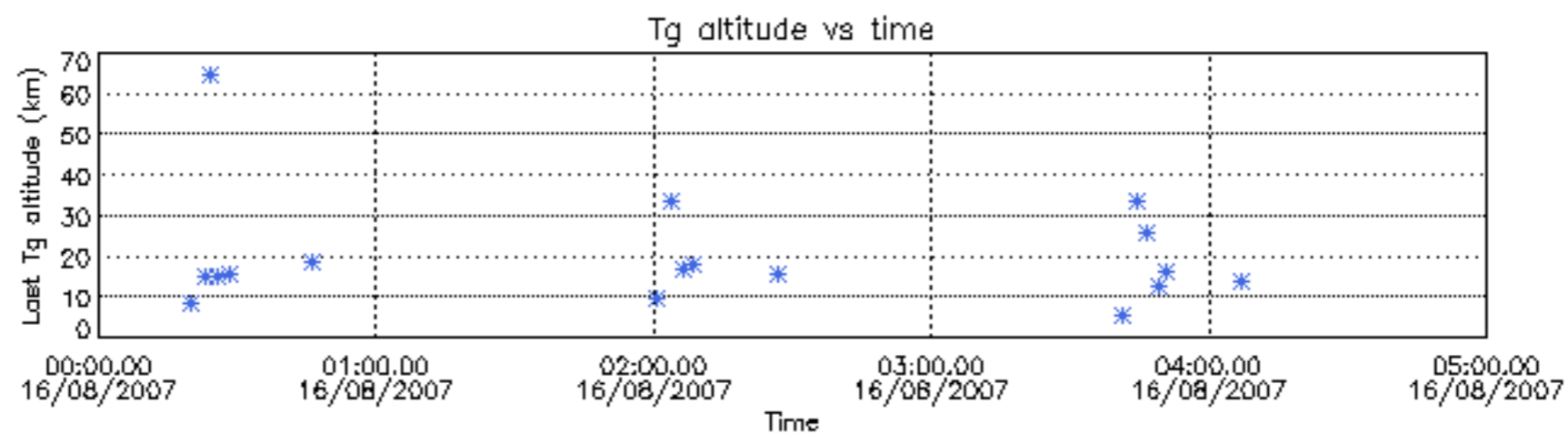


Percentage of saturation errors per profile

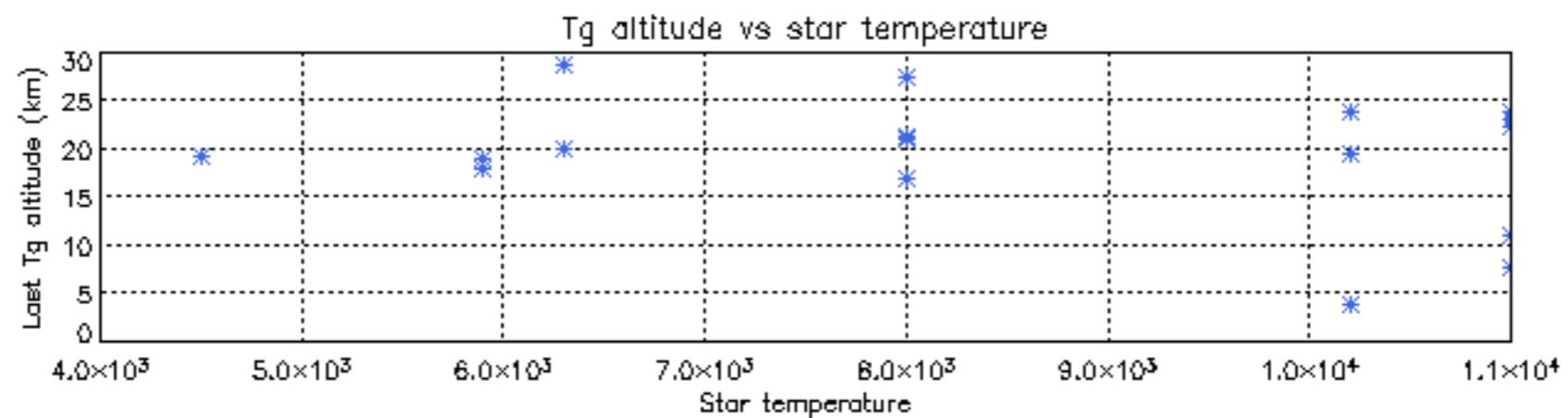
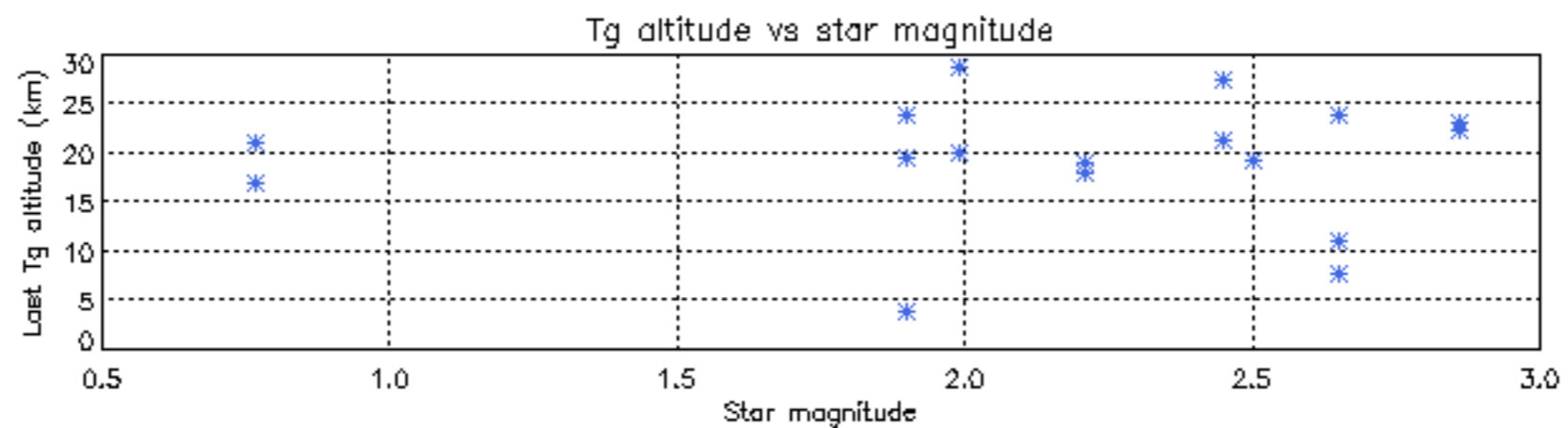
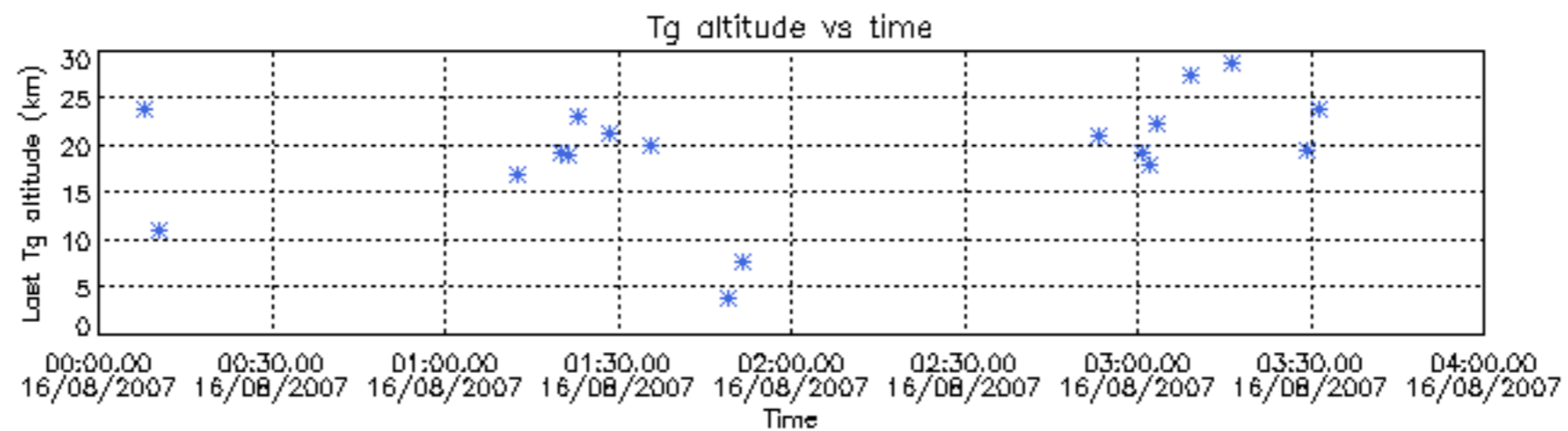


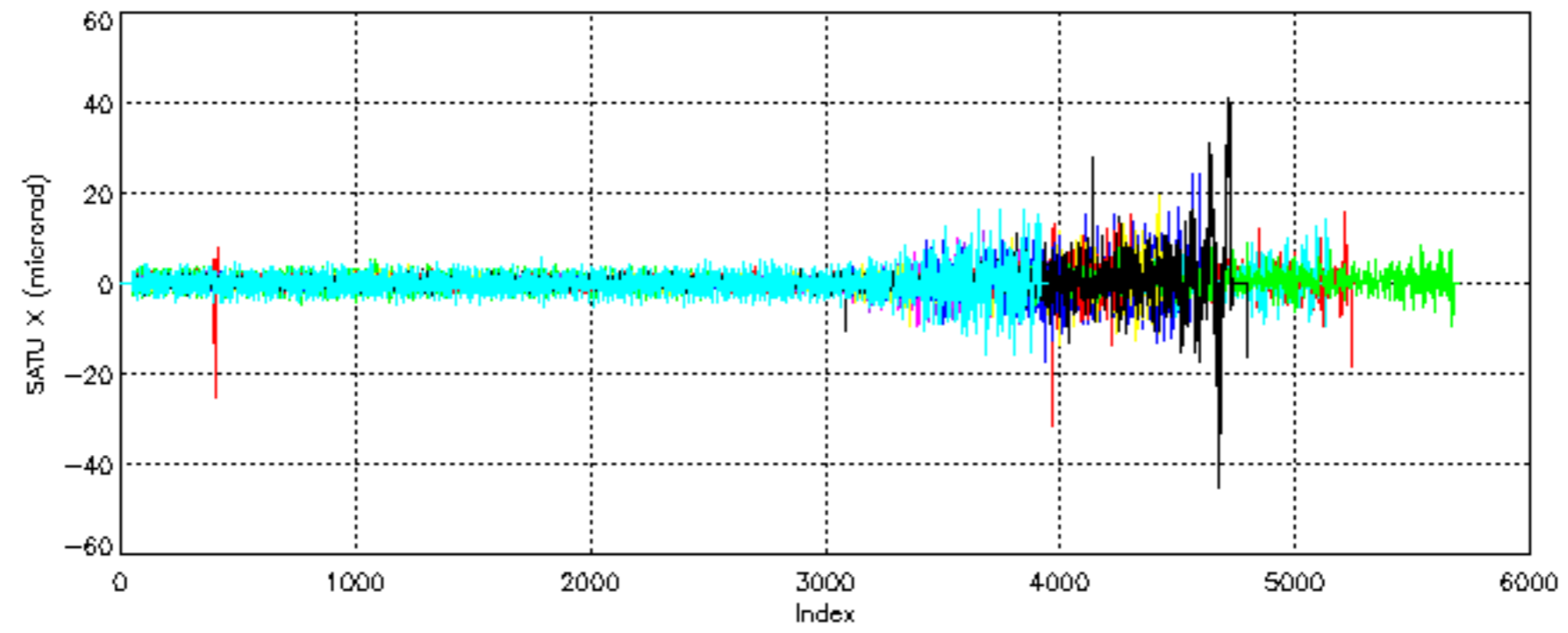


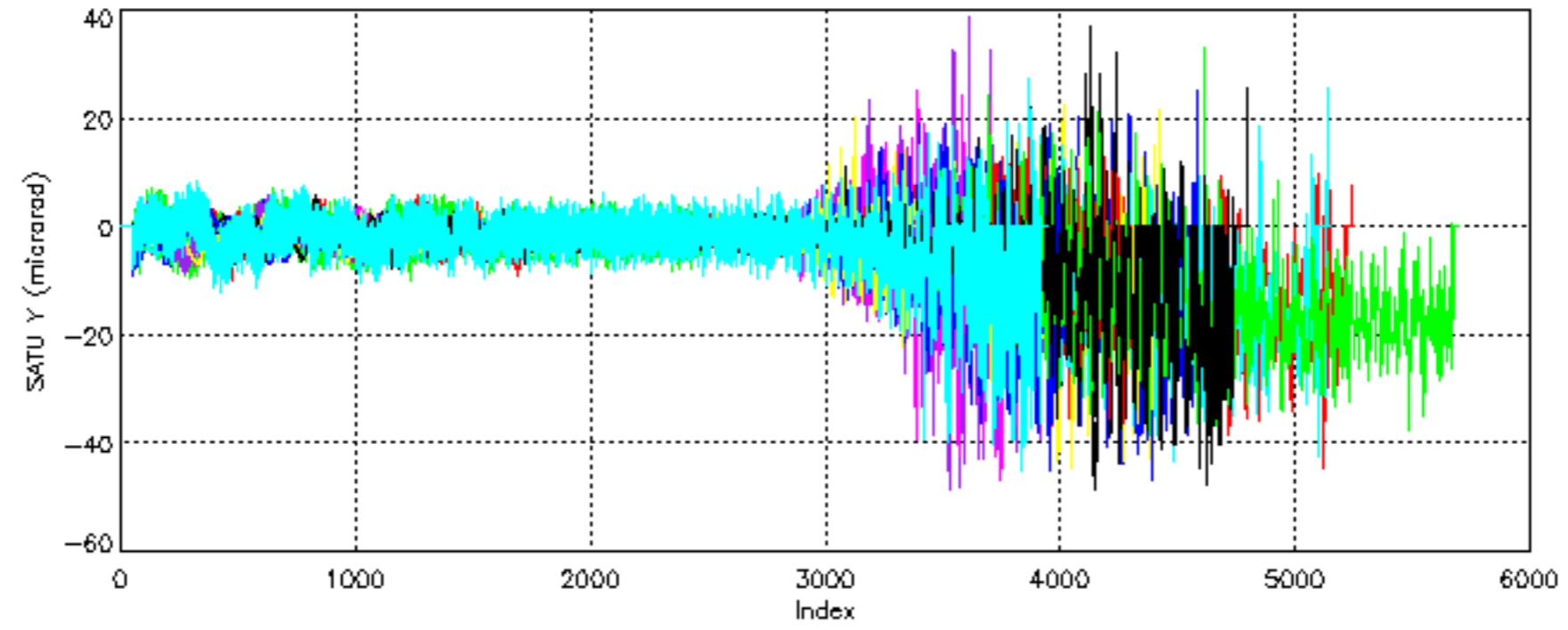
Tangent altitude at which the star is lost

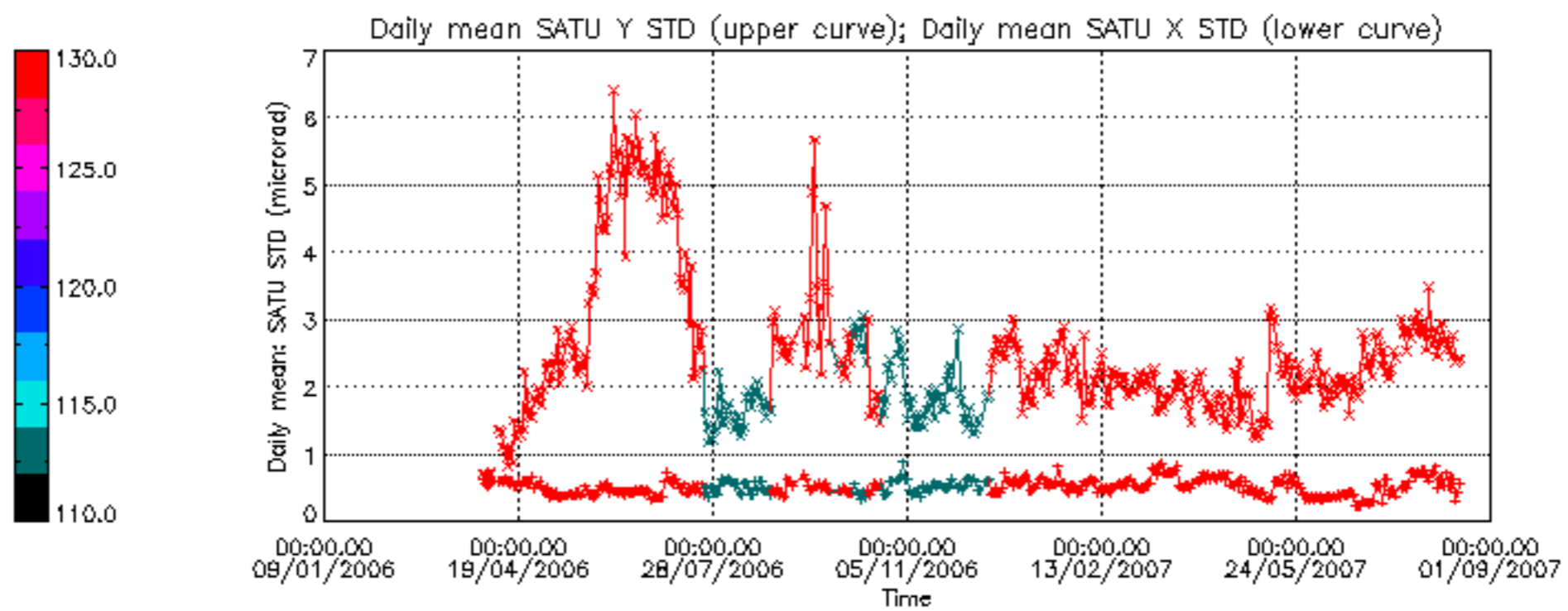


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070801\_013632\_000042562060\_00217\_28327\_4074.N1

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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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  
 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  
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329  
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 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  
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 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  
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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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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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1; -779.4; 01-AUG-2007 21:43:45; Dark ; 39.0; 47; 2Bet CMA ; 1.98; 28000;occ; 78; 0;28339  
2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339  
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  
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340  
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340  
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340  
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340  
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340  
15; 3441.0; 01-AUG-2007 22:54:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28340  
16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340  
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340  
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340  
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340  
20; 5026.7; 01-AUG-2007 23:20:32; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;28340  
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  
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 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  
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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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7; 2677.8; 27-AUG-2007 19:02:55; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28710
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 16; 5715.9; 30-AUG-2007 08:15:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28746  
 17; 6546.5; 30-AUG-2007 08:28:57; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28746  
 18; 6621.6; 30-AUG-2007 08:30:12; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28746  
 19; 6979.6; 30-AUG-2007 08:36:10; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28746  
 20; 7077.2; 30-AUG-2007 08:37:47; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28746  
 21; 7357.0; 30-AUG-2007 08:42:27; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28746  
 22; 7651.5; 30-AUG-2007 08:47:22; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28746  
 23; 7841.2; 30-AUG-2007 08:50:31; Bright; 16.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 32; 0;28746

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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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12; 5356.6; 30-AUG-2007 09:49:43; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;28747  
13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747  
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  
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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  
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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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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  
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15; 5526.1; 30-AUG-2007 13:13:44; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;28749  
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  
20; 6981.3; 30-AUG-2007 13:37:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;28749  
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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2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750  
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  
 14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750  
 15; 5526.6; 30-AUG-2007 14:54:20; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28750  
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 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  
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 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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 11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752  
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12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
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