

# GOMOS Daily Report 20-SEP-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	25SEP2007 12:43:03
Data source version	GOMOS/5.00
Start time of products	20-09-2007 (20SEP2007 00:00:00)
Stop time of products	21-09-2007 (21SEP2007 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)

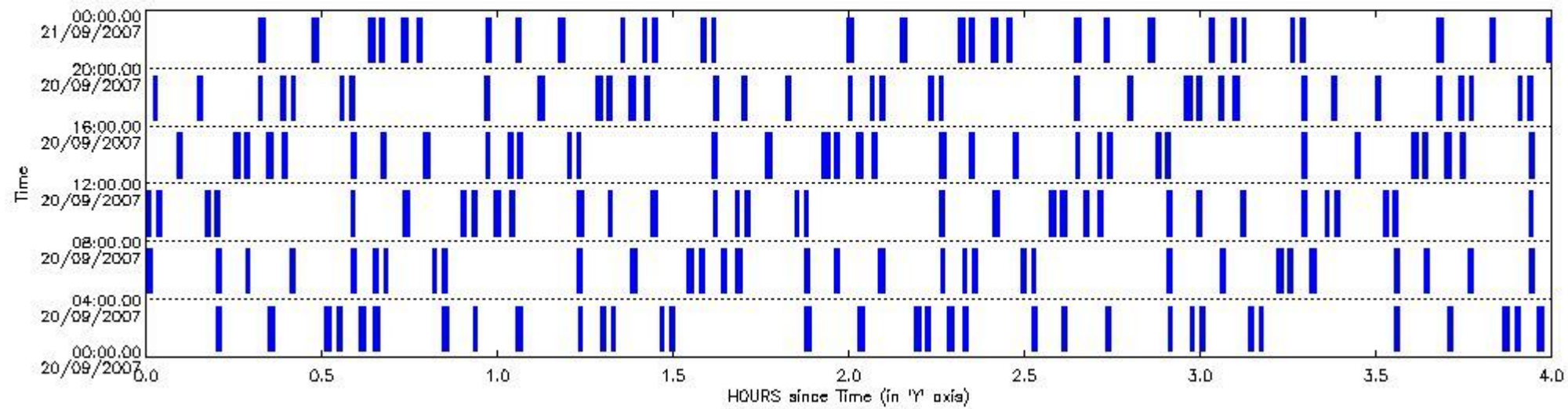
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

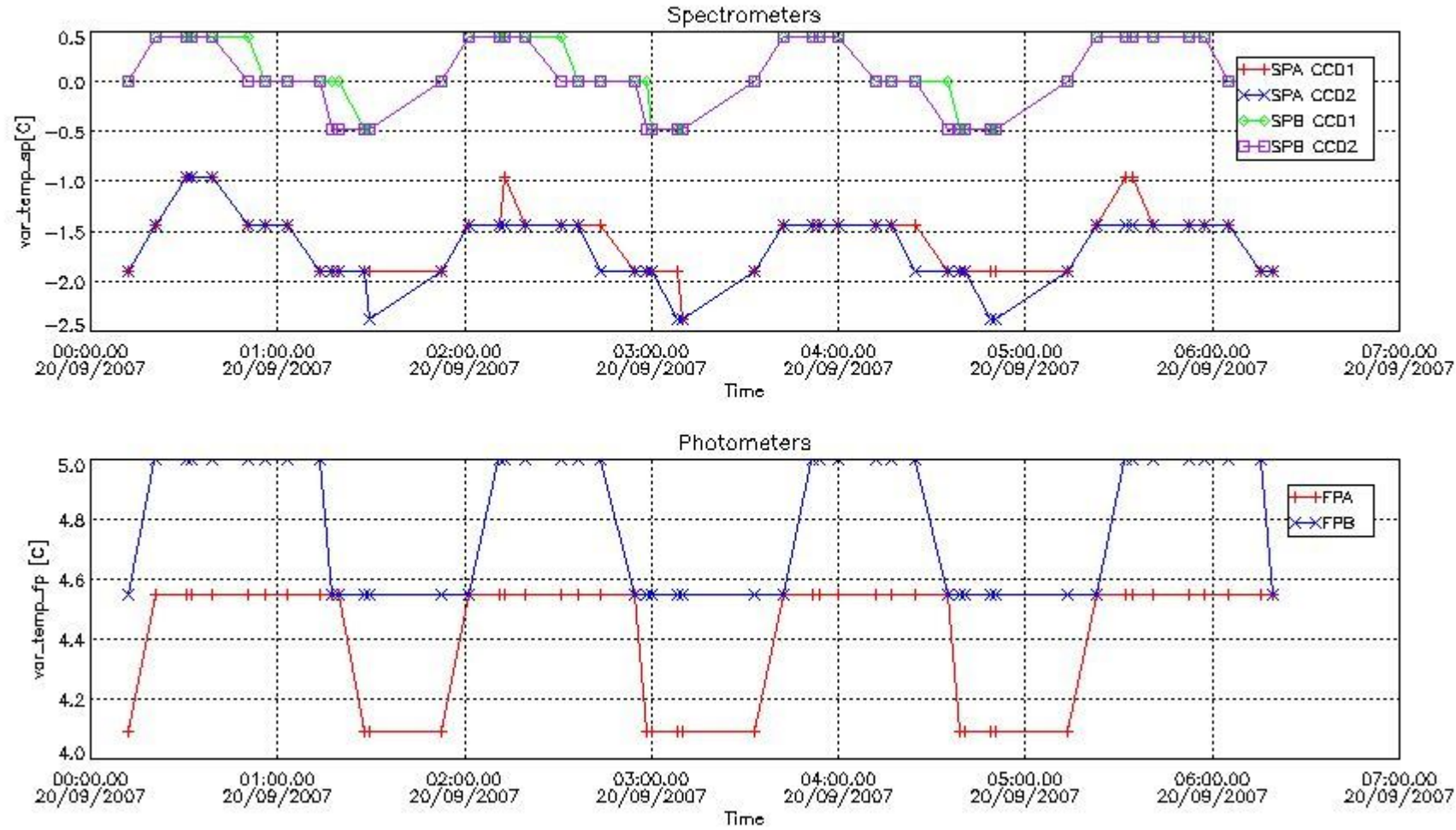
No missing products.

### 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_1PNPDE20070920_001151_000000522061_00431_29042_4272.N1	20-SEP-2007 00:11:51	Bright	52.000	24	66Alp Gem	1.5800	10200.	104	29042	No
2	GOM_TRA_1PNPDE20070920_002054_000000592061_00431_29042_4273.N1	20-SEP-2007 00:20:54	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	29042	No
3	GOM_TRA_1PNPDE20070920_003030_000000632061_00431_29042_4458.N1	20-SEP-2007 00:30:30	Dark	62.500	1	9Alp CMa	-1.4400	11000.	125	29042	No
4	GOM_TRA_1PNPDE20070920_003230_000000532061_00431_29042_4459.N1	20-SEP-2007 00:32:30	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	29042	No
5	GOM_TRA_1PNPDE20070920_003849_000000522061_00432_29043_4460.N1	20-SEP-2007 00:38:49	Dark	52.000	108	Alp Col	2.6520	15200.	104	29043	No
6	GOM_TRA_1PNPDE20070920_005036_000000552061_00432_29043_4461.N1	20-SEP-2007 00:50:36	Straylight	55.000	157	The1Eri	2.9060	9300.0	110	29043	No
7	GOM_TRA_1PNPDE20070920_005545_000000432061_00432_29043_4462.N1	20-SEP-2007 00:55:45	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	29043	No
8	GOM_TRA_1PNPDE20070920_010313_000000562061_00432_29043_4463.N1	20-SEP-2007 01:03:13	Twilight_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	29043	No
9	GOM_TRA_1PNPDE20070920_011350_000000392061_00432_29043_4464.N1	20-SEP-2007 01:13:50	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29043	No
10	GOM_TRA_1PNPDE20070920_011738_000000402061_00432_29043_4465.N1	20-SEP-2007 01:17:38	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	29043	No
11	GOM_TRA_1PNPDE20070920_011922_000000452061_00432_29043_4466.N1	20-SEP-2007 01:19:22	Bright	45.000	58	21Alp And	2.0730	11000.	90	29043	No
12	GOM_TRA_1PNPDE20070920_012743_000000402061_00432_29043_4467.N1	20-SEP-2007 01:27:43	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	29043	No

13	GOM_TRA_1PNPDE20070920_012925_000000412061_00432_29043_4468.N1	20-SEP-2007 01:29:25	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	29043	No
14	GOM_TRA_1PNPDE20070920_015227_000000652061_00432_29043_4469.N1	20-SEP-2007 01:52:27	Bright	65.000	24	66Alp Gem	1.5800	10200.	130	29043	No
15	GOM_TRA_1PNPDE20070920_020130_000000662061_00432_29043_4603.N1	20-SEP-2007 02:01:30	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	29043	No
16	GOM_TRA_1PNPDE20070920_021107_000000652061_00432_29043_4604.N1	20-SEP-2007 02:11:07	Dark	65.000	1	9Alp CMa	-1.4400	11000.	130	29043	No
17	GOM_TRA_1PNPDE20070920_021307_000000482061_00432_29043_4605.N1	20-SEP-2007 02:13:07	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	29043	No
18	GOM_TRA_1PNPDE20070920_021926_000000542061_00433_29044_4606.N1	20-SEP-2007 02:19:26	Dark	53.500	108	Alp Col	2.6520	15200.	107	29044	No
19	GOM_TRA_1PNPDE20070920_023112_000000582061_00433_29044_4607.N1	20-SEP-2007 02:31:12	Straylight	58.000	157	The1Eri	2.9060	9300.0	116	29044	No
20	GOM_TRA_1PNPDE20070920_023622_000000442061_00433_29044_4608.N1	20-SEP-2007 02:36:22	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	29044	No
21	GOM_TRA_1PNPDE20070920_024349_000000582061_00433_29044_4609.N1	20-SEP-2007 02:43:49	Twilight_and_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	29044	No
22	GOM_TRA_1PNPDE20070920_025426_000000392061_00433_29044_4610.N1	20-SEP-2007 02:54:26	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29044	No
23	GOM_TRA_1PNPDE20070920_025814_000000392061_00433_29044_4611.N1	20-SEP-2007 02:58:14	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	29044	No
24	GOM_TRA_1PNPDE20070920_025957_000000452061_00433_29044_4612.N1	20-SEP-2007 02:59:57	Bright	45.000	58	21Alp And	2.0730	11000.	90	29044	No
25	GOM_TRA_1PNPDE20070920_030819_000000392061_00433_29044_4613.N1	20-SEP-2007 03:08:19	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	29044	No
26	GOM_TRA_1PNPDE20070920_031000_000000382061_00433_29044_4614.N1	20-SEP-2007 03:10:00	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29044	No
27	GOM_TRA_1PNPDE20070920_033303_000000472061_00433_29044_4751.N1	20-SEP-2007 03:33:03	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	29044	No
28	GOM_TRA_1PNPDE20070920_034207_000000562061_00433_29044_4752.N1	20-SEP-2007 03:42:07	Dark	56.000	8	10Alp CMi	0.40000	6500.0	112	29044	No
29	GOM_TRA_1PNPDE20070920_035144_000000642061_00433_29044_4753.N1	20-SEP-2007 03:51:44	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	29044	No
30	GOM_TRA_1PNPDE20070920_035343_000000492061_00433_29044_4754.N1	20-SEP-2007 03:53:43	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	29044	No
31	GOM_TRA_1PNPDE20070920_040003_000000532061_00434_29045_4755.N1	20-SEP-2007 04:00:03	Dark	52.500	108	Alp Col	2.6520	15200.	105	29045	No
32	GOM_TRA_1PNPDE20070920_041149_000000552061_00434_29045_4756.N1	20-SEP-2007 04:11:49	Straylight	54.500	157	The1Eri	2.9060	9300.0	109	29045	No
33	GOM_TRA_1PNPDE20070920_041658_000000412061_00434_29045_4757.N1	20-SEP-2007 04:16:58	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	29045	No
34	GOM_TRA_1PNPDE20070920_042425_000000582061_00434_29045_4758.N1	20-SEP-2007 04:24:25	Twilight_and_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	29045	No
35	GOM_TRA_1PNPDE20070920_043502_000000382061_00434_29045_4759.N1	20-SEP-2007 04:35:02	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	29045	No
36	GOM_TRA_1PNPDE20070920_043850_000000402061_00434_29045_4760.N1	20-SEP-2007 04:38:50	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	29045	No
37	GOM_TRA_1PNPDE20070920_044033_000000442061_00434_29045_4761.N1	20-SEP-2007 04:40:33	Bright	43.500	58	21Alp And	2.0730	11000.	87	29045	No
38	GOM_TRA_1PNPDE20070920_044854_000000402061_00434_29045_4762.N1	20-SEP-2007 04:48:54	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	29045	No
39	GOM_TRA_1PNPDE20070920_045036_000000432061_00434_29045_4763.N1	20-SEP-2007 04:50:36	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	29045	No
40	GOM_TRA_1PNPDE20070920_051339_000000482061_00434_29045_4898.N1	20-SEP-2007 05:13:39	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	29045	No
41	GOM_TRA_1PNPDE20070920_052244_000000572061_00434_29045_4899.N1	20-SEP-2007 05:22:44	Dark	56.500	8	10Alp CMi	0.40000	6500.0	113	29045	No
42	GOM_TRA_1PNPDE20070920_053221_000000692061_00434_29045_4900.N1	20-SEP-2007 05:32:21	Dark	68.500	1	9Alp CMa	-1.4400	11000.	137	29045	No
43	GOM_TRA_1PNPDE20070920_053420_000000522061_00434_29045_4901.N1	20-SEP-2007 05:34:20	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	29045	No
44	GOM_TRA_1PNPDE20070920_054041_000000532061_00435_29046_4902.N1	20-SEP-2007 05:40:41	Dark	53.000	108	Alp Col	2.6520	15200.	106	29046	No
45	GOM_TRA_1PNPDE20070920_055226_000000532061_00435_29046_4903.N1	20-SEP-2007 05:52:26	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	29046	No
46	GOM_TRA_1PNPDE20070920_055735_000000472061_00435_29046_4904.N1	20-SEP-2007 05:57:35	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	29046	No
47	GOM_TRA_1PNPDE20070920_060501_000000582061_00435_29046_4905.N1	20-SEP-2007 06:05:01	Twilight_and_stray	58.000	52	16Bet Cet	2.0370	4500.0	116	29046	No
48	GOM_TRA_1PNPDE20070920_061538_000000392061_00435_29046_4906.N1	20-SEP-2007 06:15:38	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29046	No
49	GOM_TRA_1PNPDE20070920_061926_000000412061_00435_29046_4907.N1	20-SEP-2007 06:19:26	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	29046	No

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



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

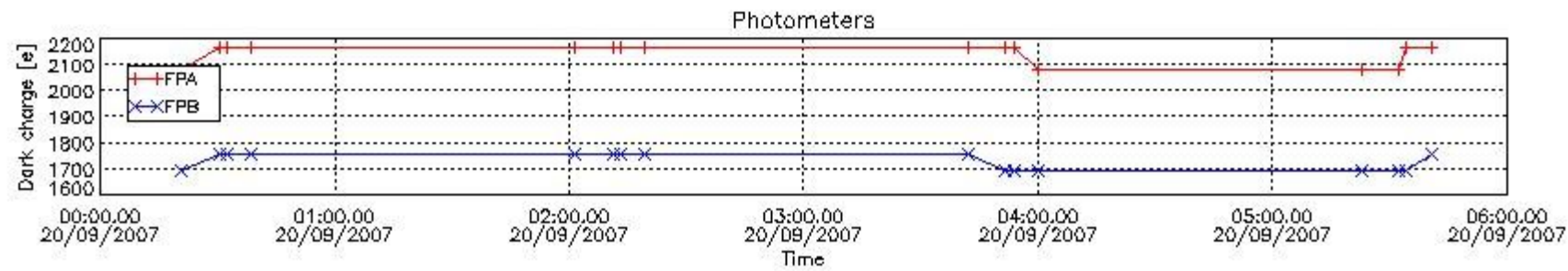
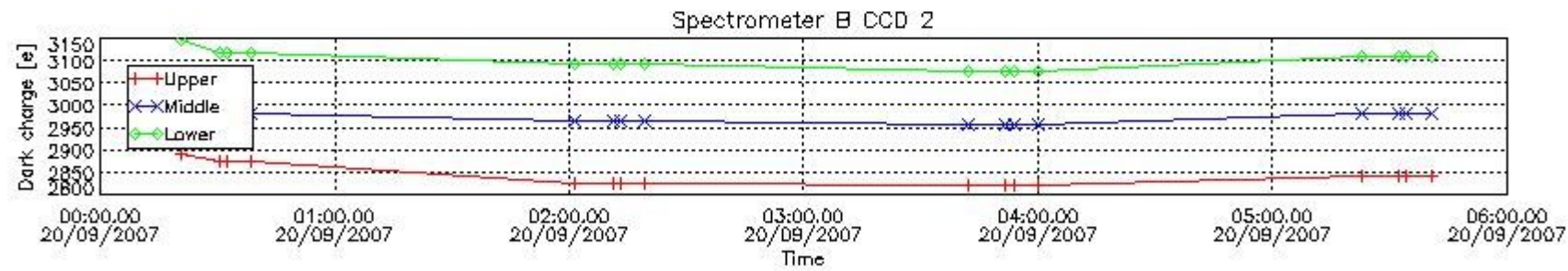
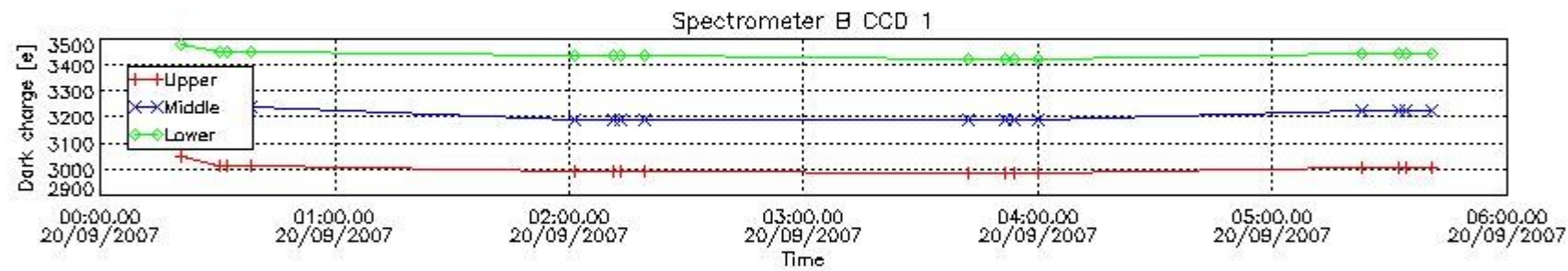
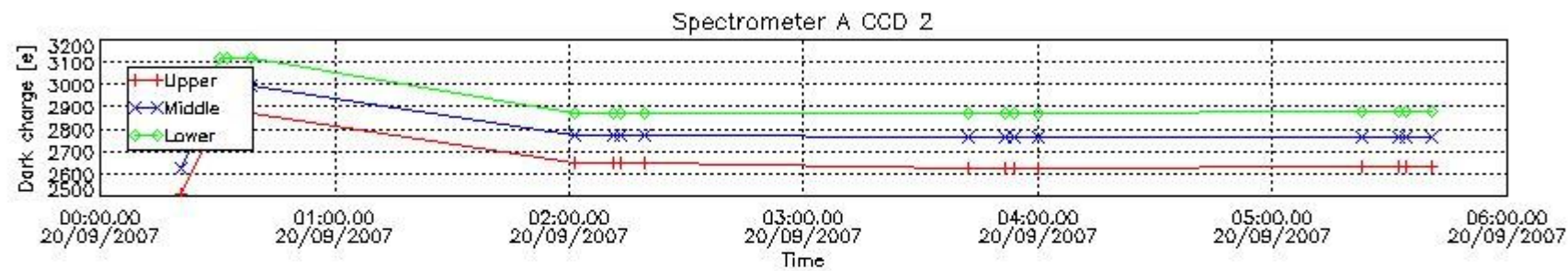
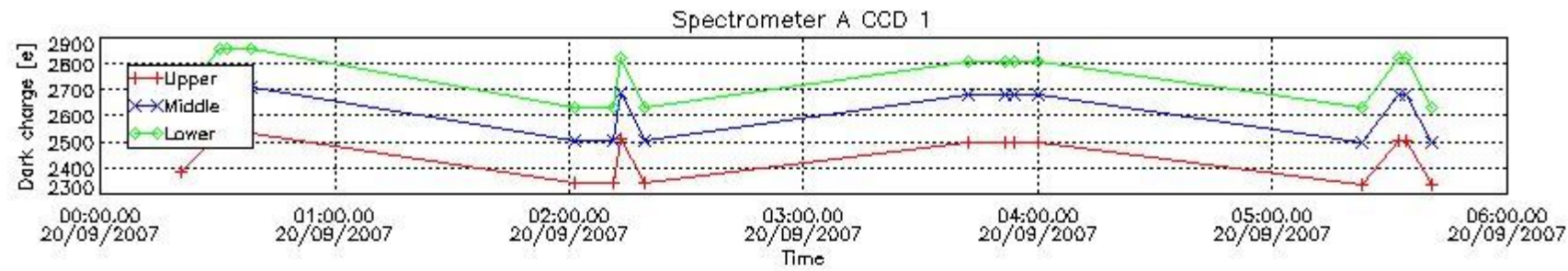
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





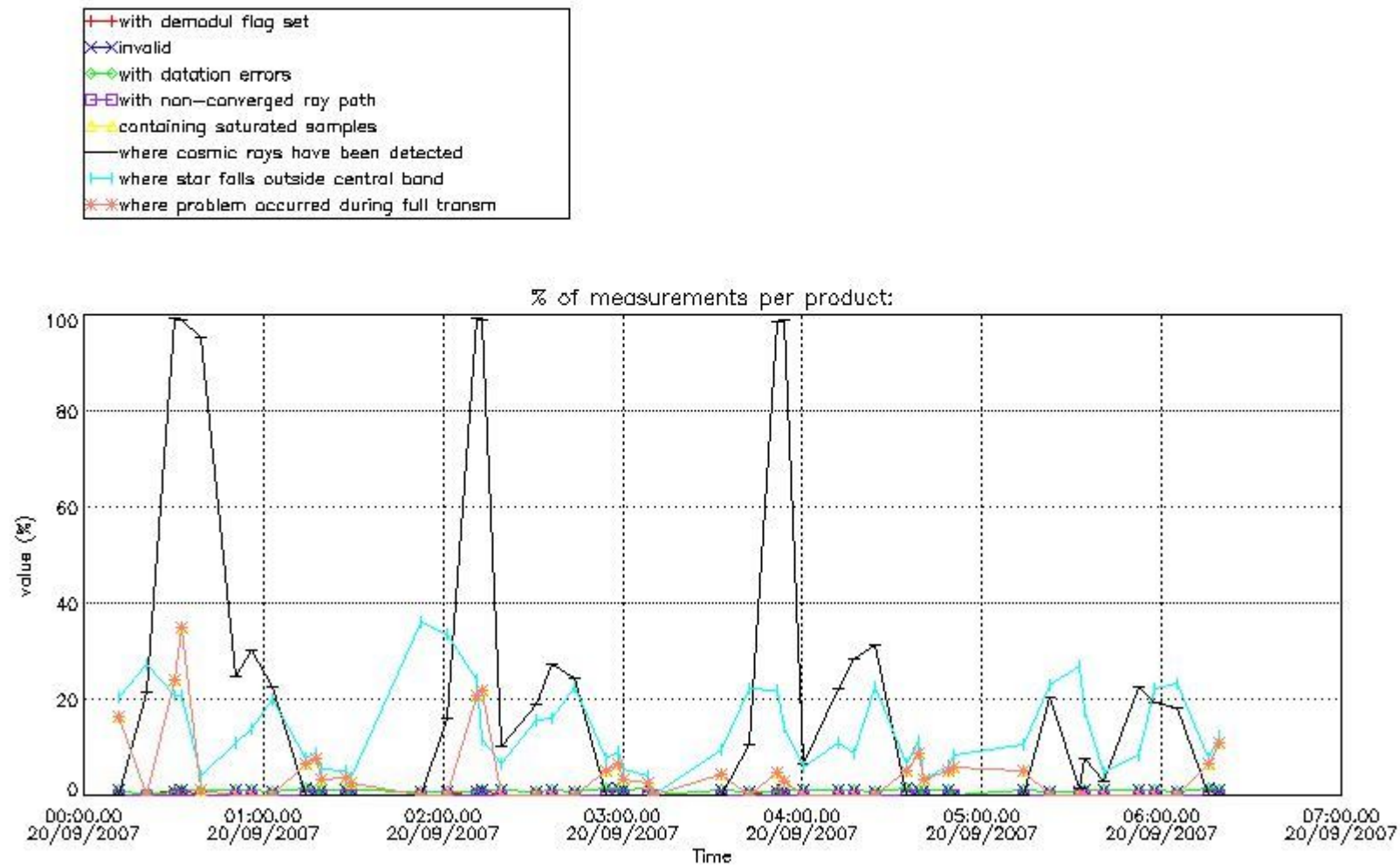
## 5. Demodulation flag and quality information monitoring

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:

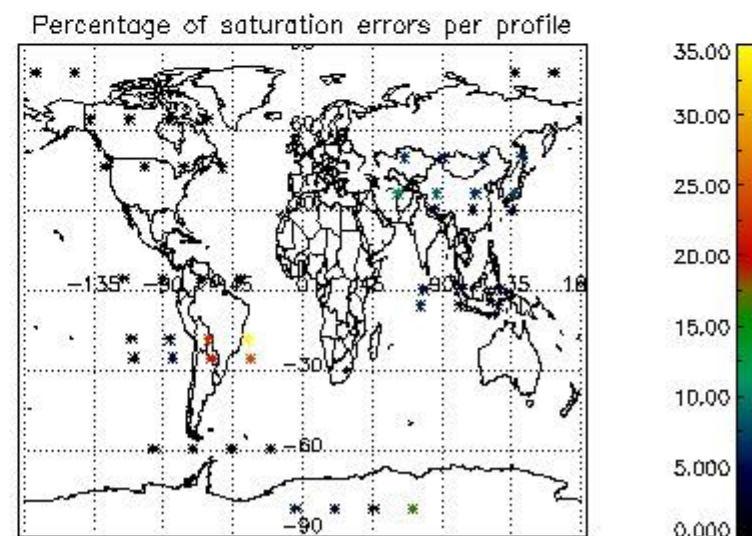
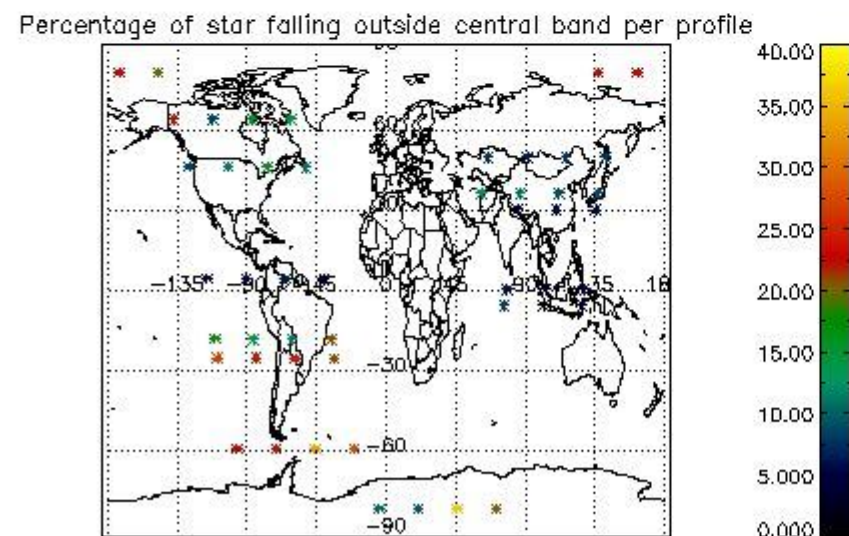
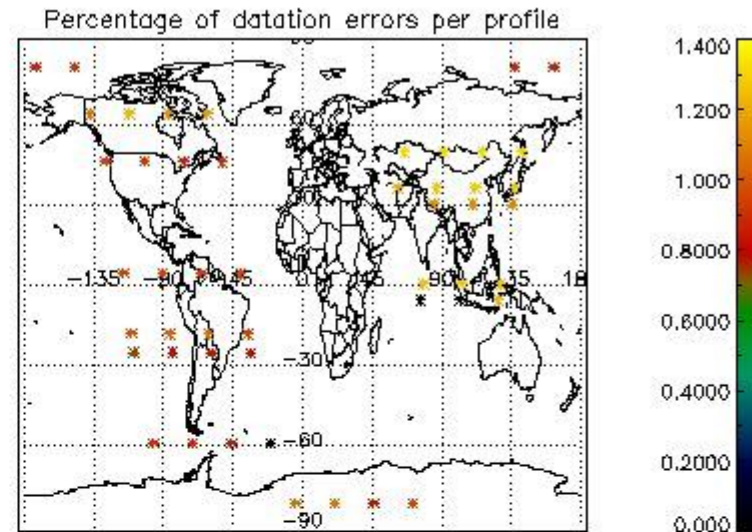
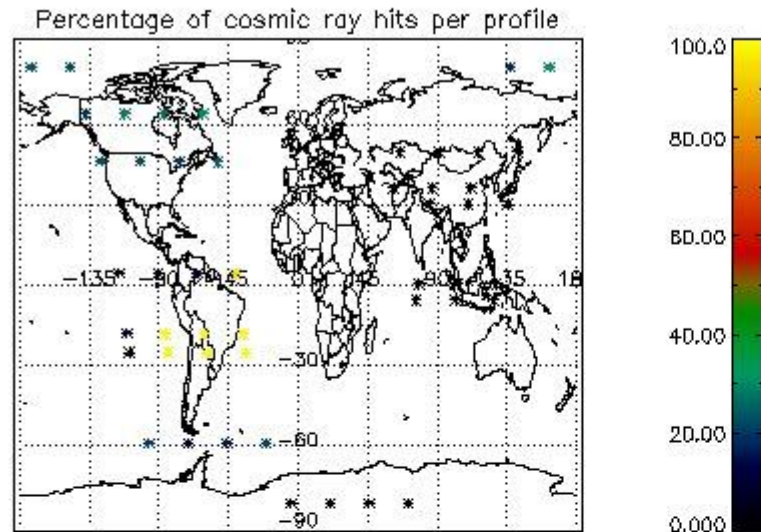
At least one measurement with demodulation flag set:	24.4898 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





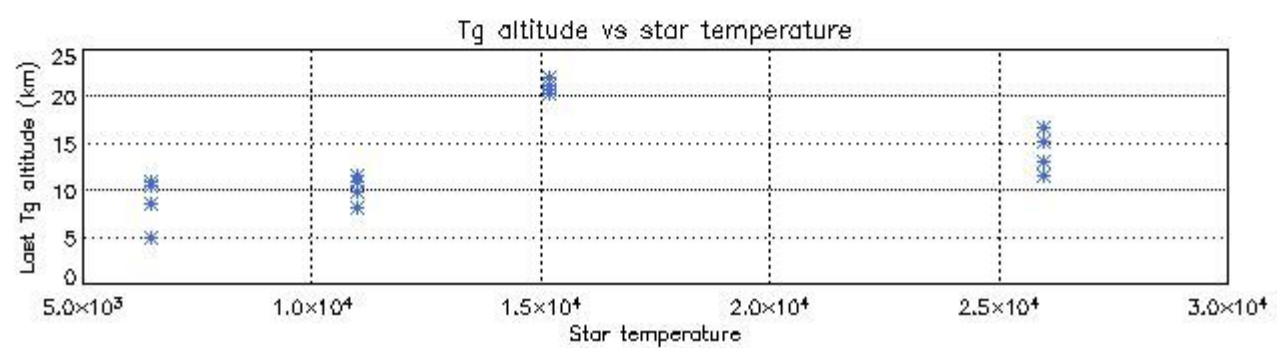
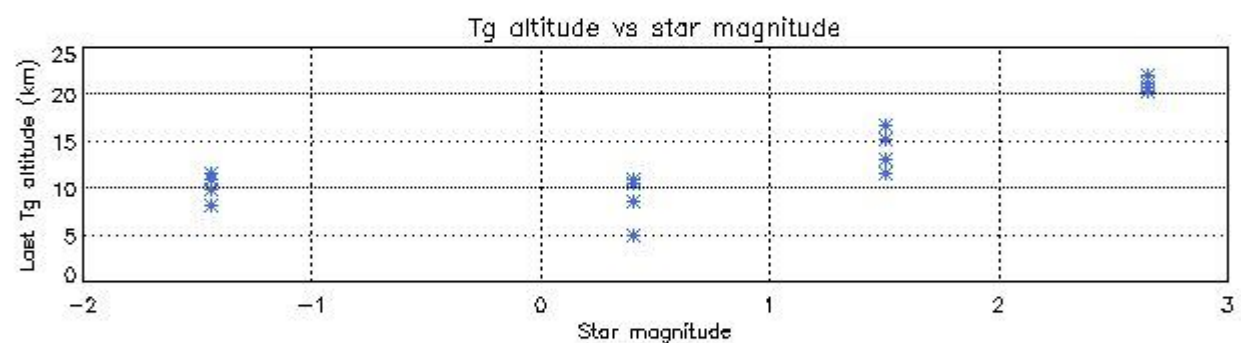
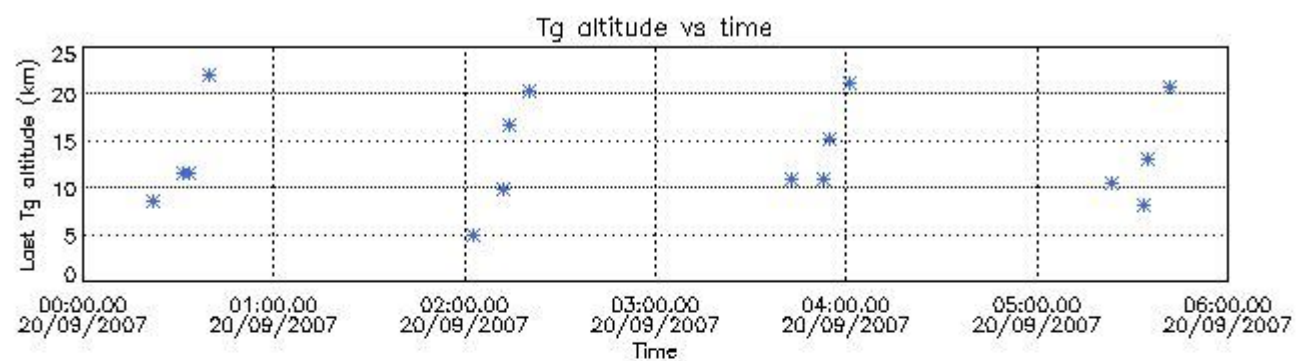
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.480	19.355	NaN
St. deviation:	5.2571	4.8853	NaN
Maximum:	22.058	30.735	NaN
Minimum:	4.8846	4.7819	NaN
Number of data:	16.000	21.000	NaN

### 6.2 Plot for DARK limb products

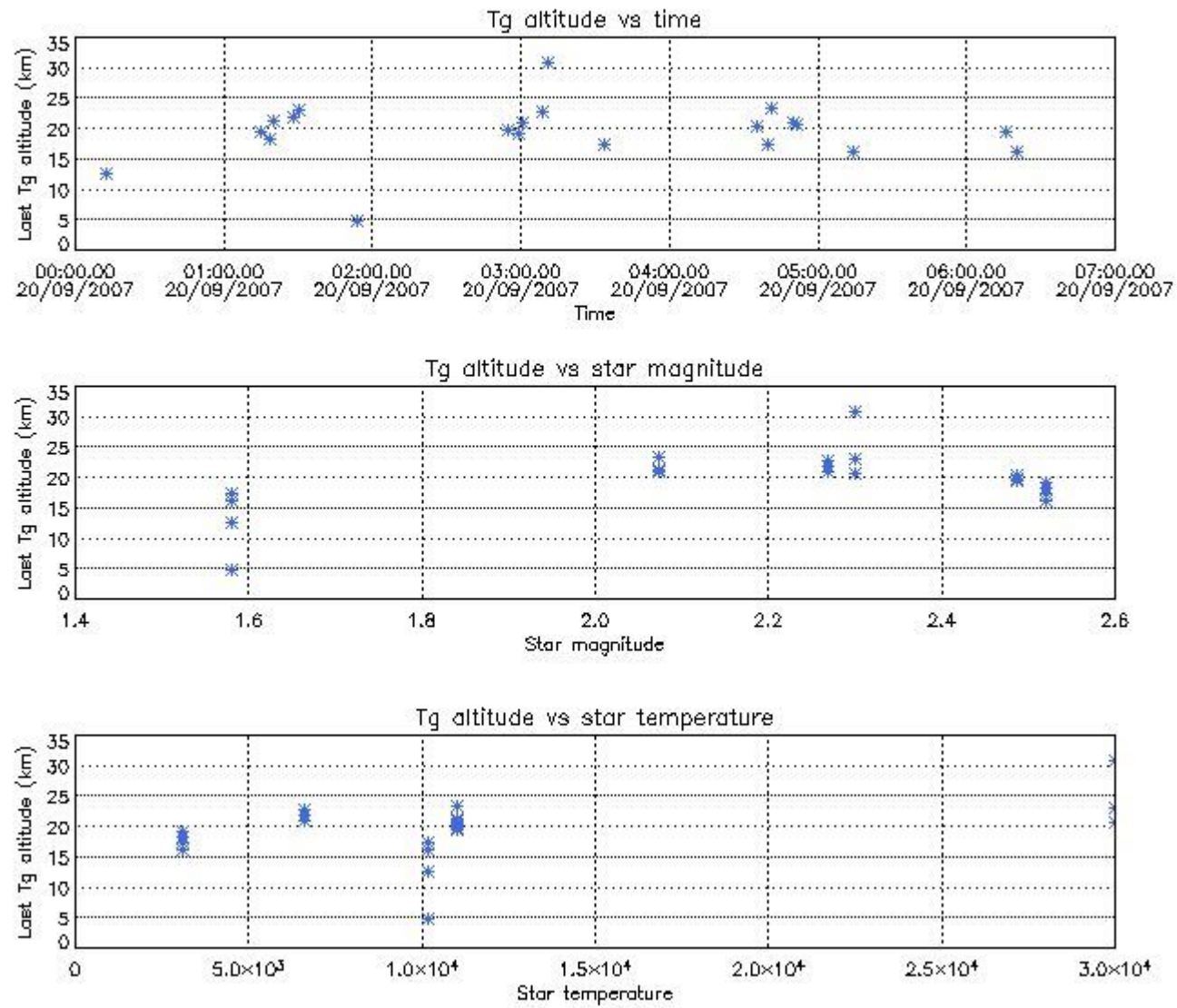
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

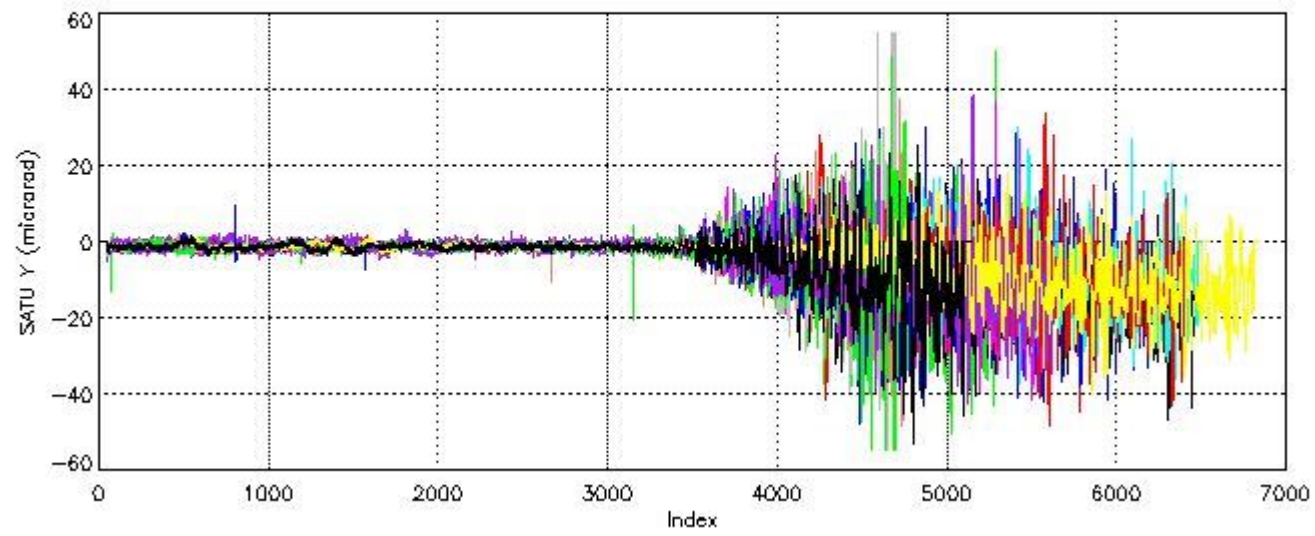
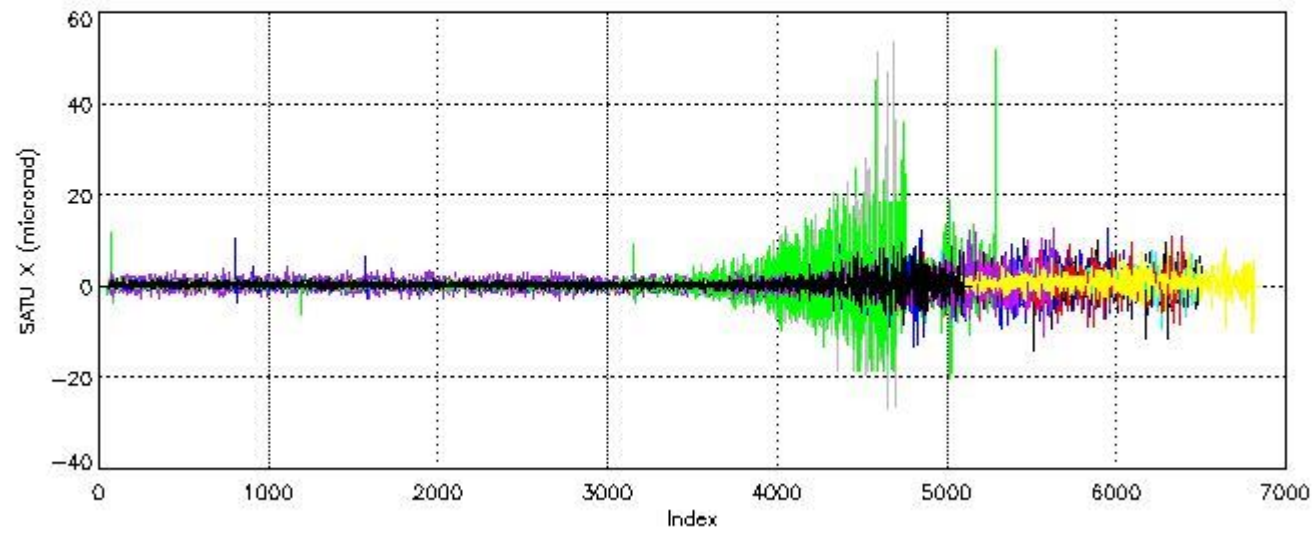


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.31411	-1.2300	0.27516	-1.3195
St. deviation:	0.46632	0.88643	0.67177	1.1238
Maximum:	11.700	9.5000	4.6000	4.4000
Minimum:	-3.7000	-13.200	-4.3000	-6.4000

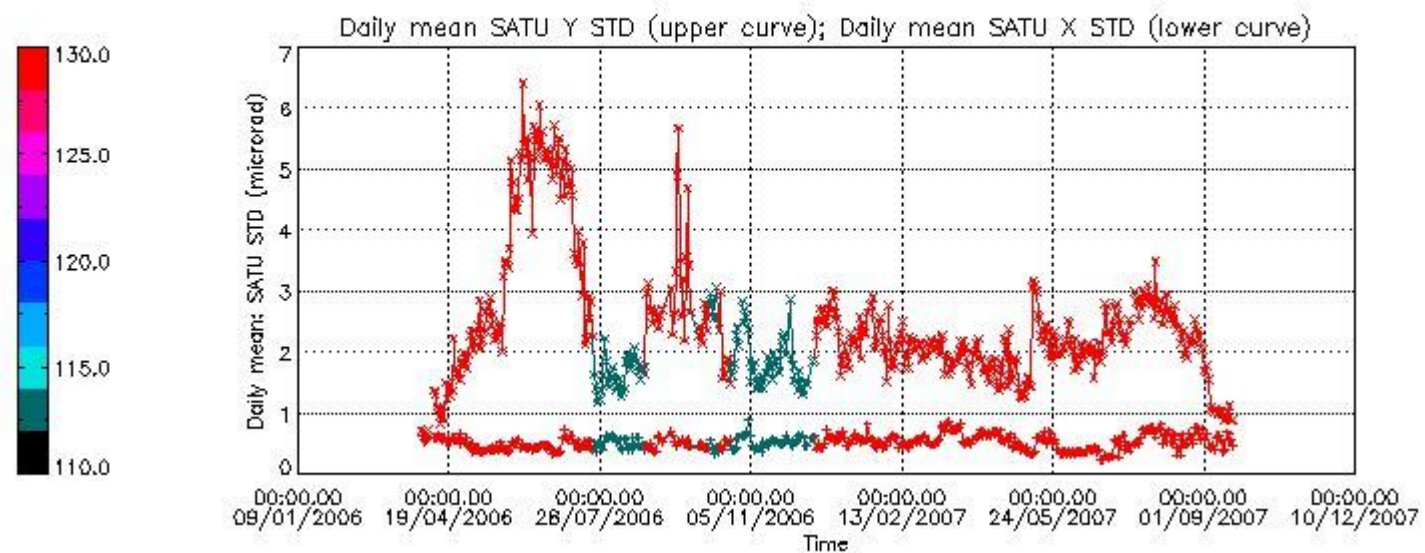
Number of data:	19350.	19350.	20050.	20050.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

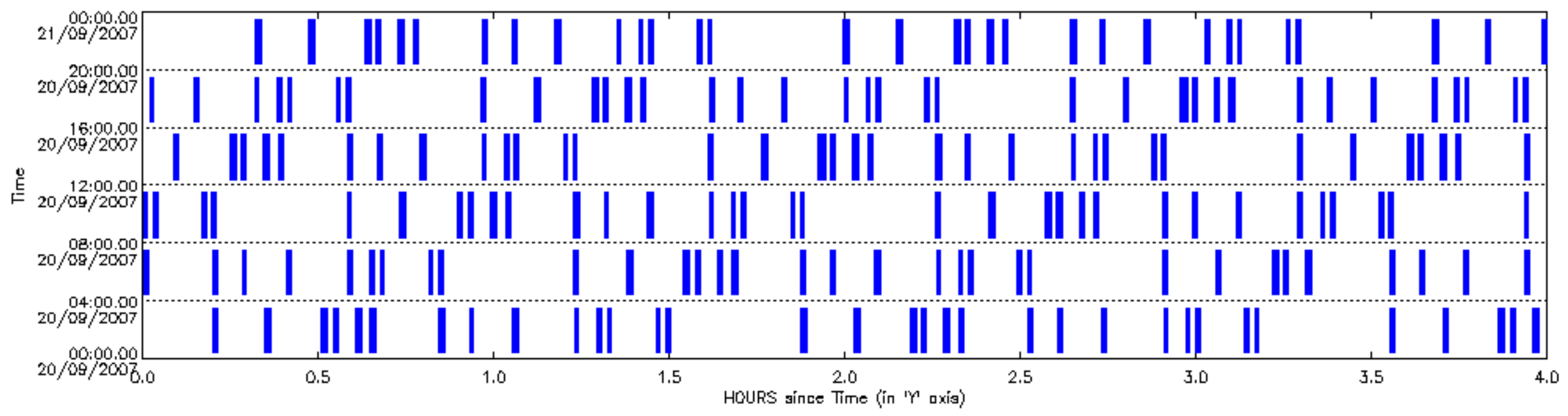


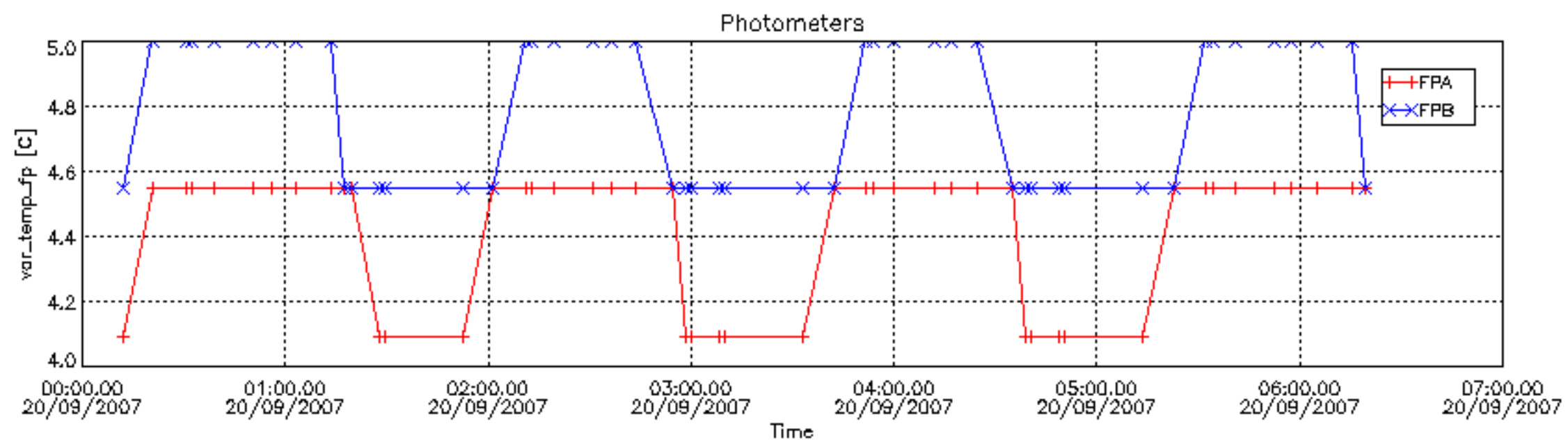
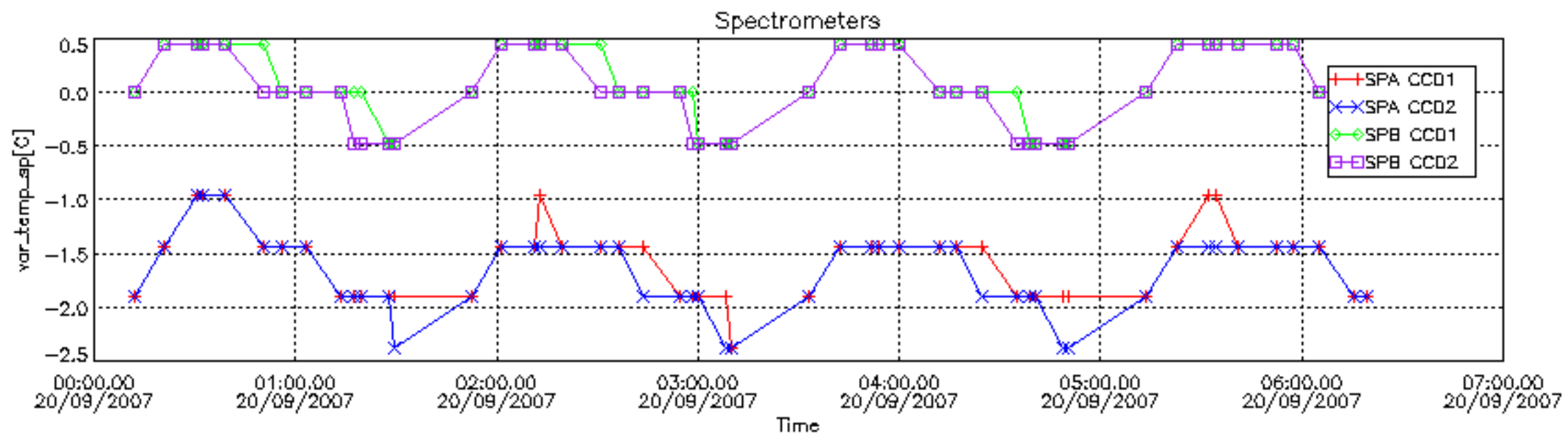
### 8. Auxiliary Data Files used for the production reported in section 2.4

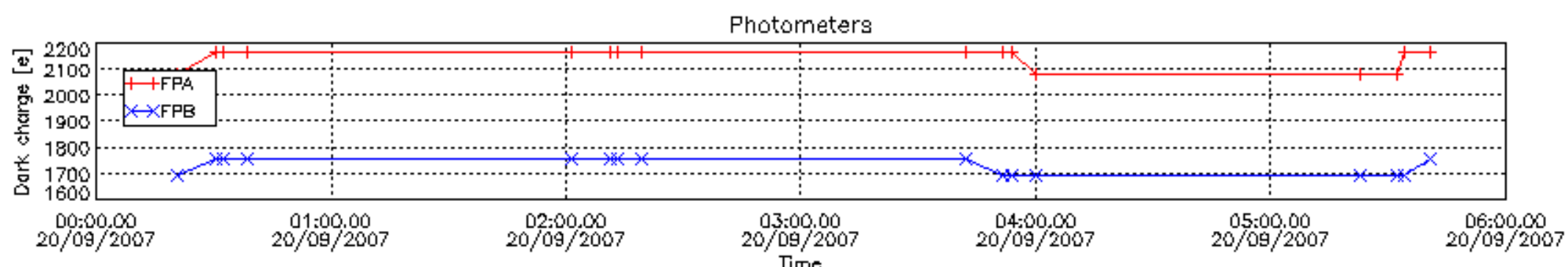
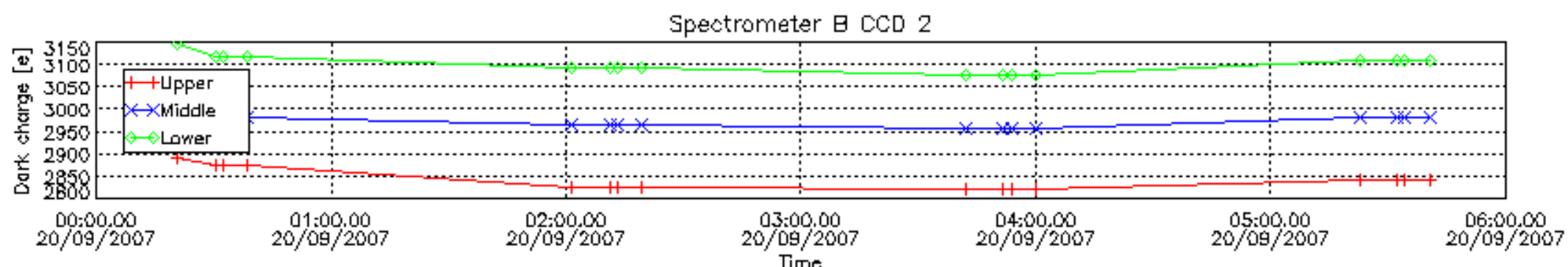
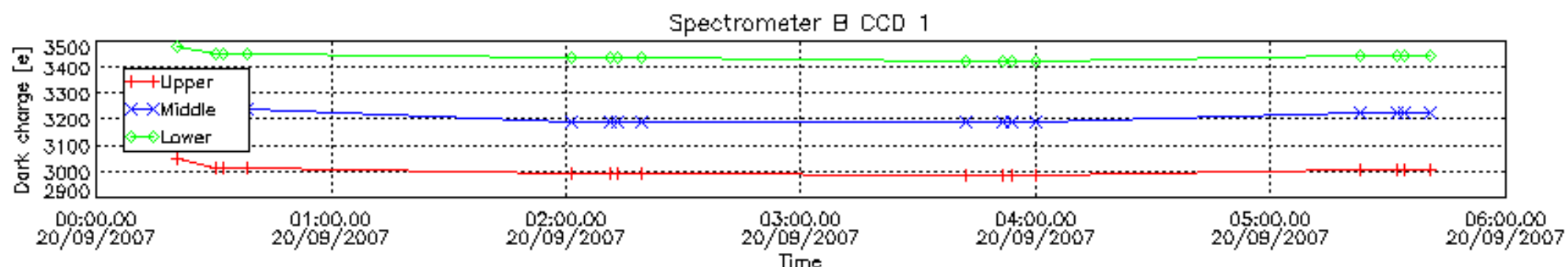
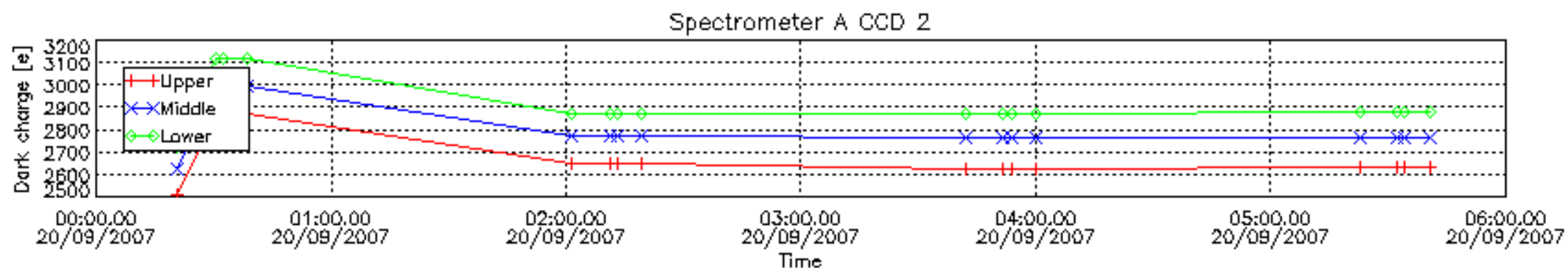
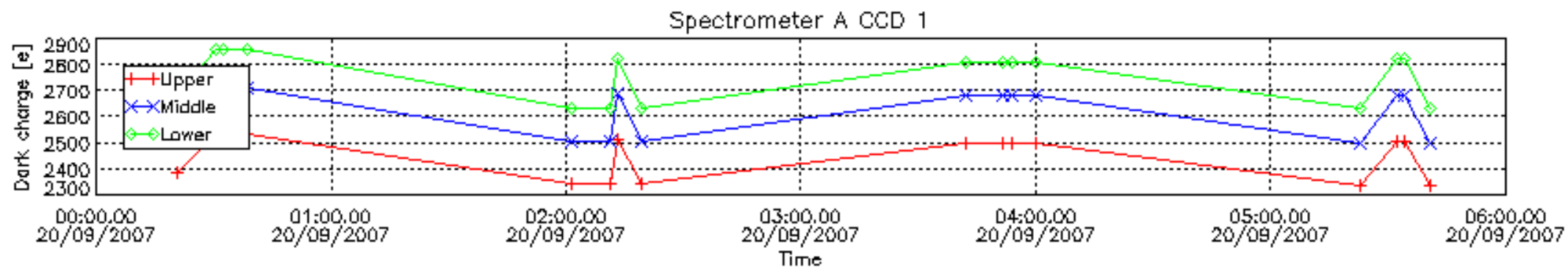
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-SEP-2007 00:11:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	20-SEP-2007 00:11:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-SEP-2007 00:11:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-SEP-2007 00:11:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-SEP-2007 00:11:51
ECMWF_FILE	AUX_ECF_AXNECM20070919_070112_20070919_210000_20070920_090000	1	20-SEP-2007 00:11:51
OPTIONAL_ECMWF_FILE	MISSING	1	20-SEP-2007 00:11:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070919_205735_000060572061_00429_29040_4210.N1	1	20-SEP-2007 00:11:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070919_224351_000057382061_00430_29041_4211.N1	3	20-SEP-2007 00:30:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070920_002448_000054192061_00431_29042_4212.N1	15	20-SEP-2007 02:01:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070920_020026_000041442061_00432_29043_4213.N1	27	20-SEP-2007 03:33:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070920_031449_000057382061_00433_29044_4214.N1	40	20-SEP-2007 05:13:39





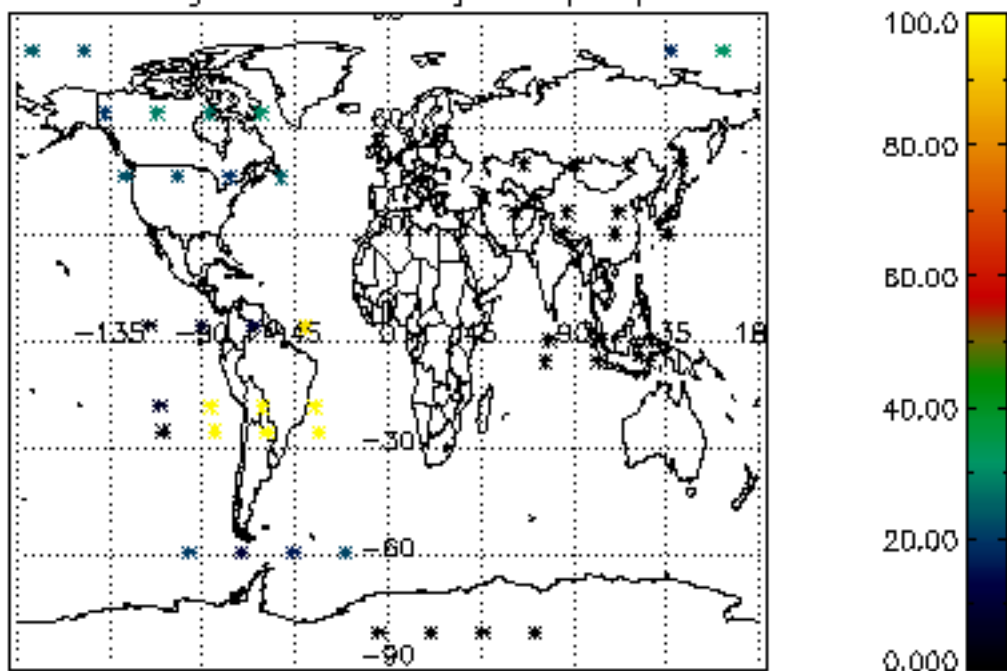




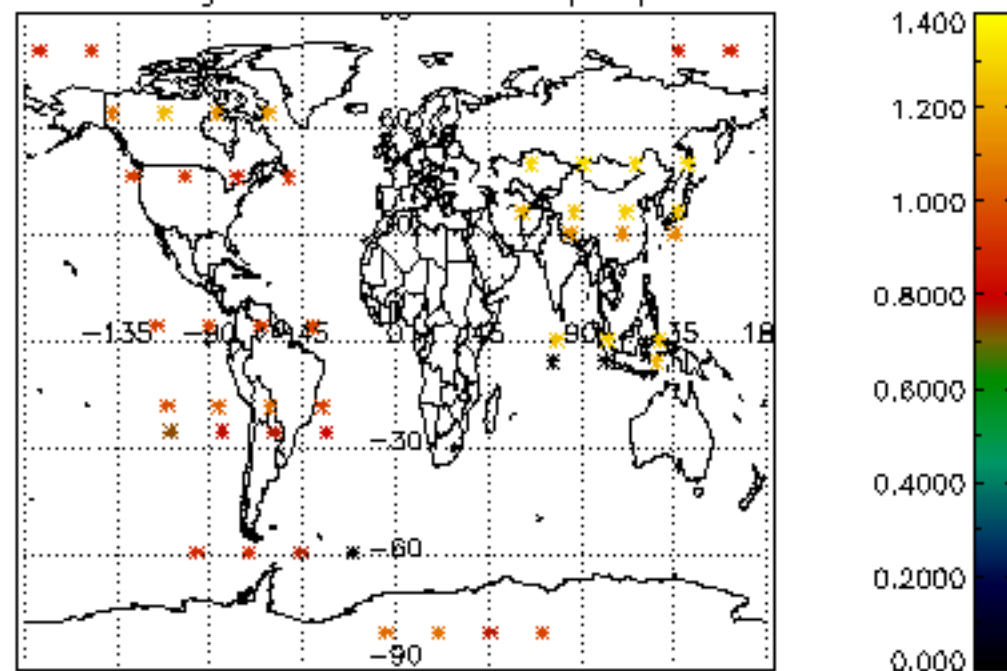




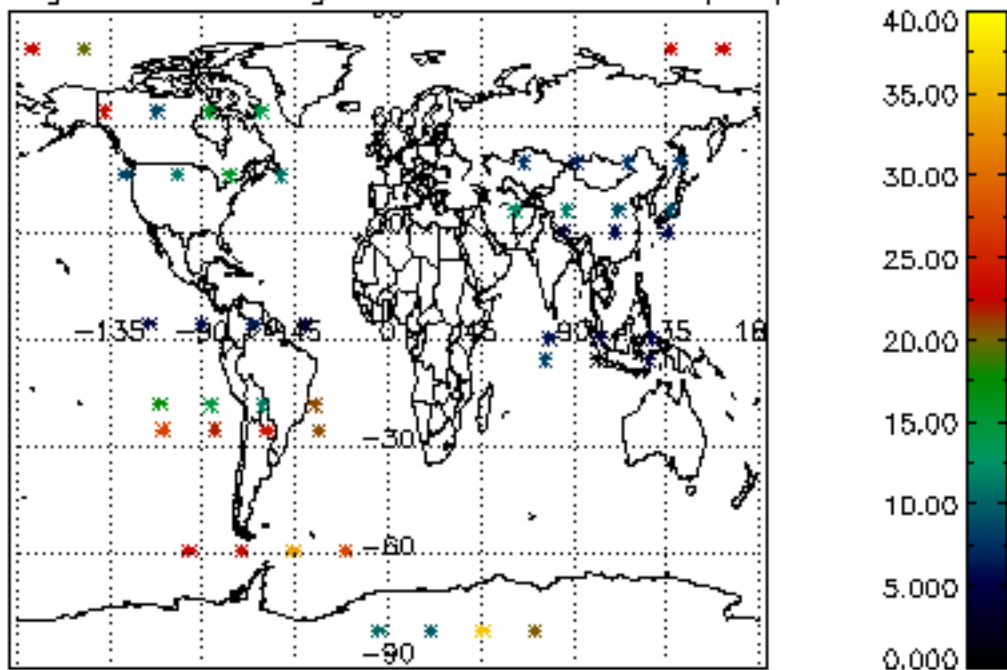
Percentage of cosmic ray hits per profile



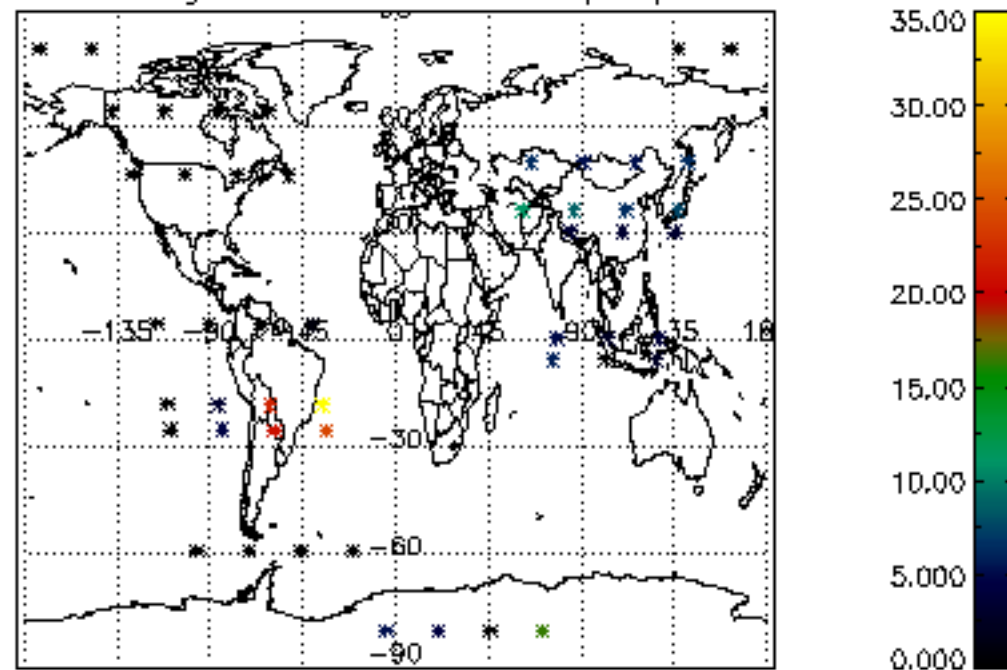
Percentage of datation errors per profile



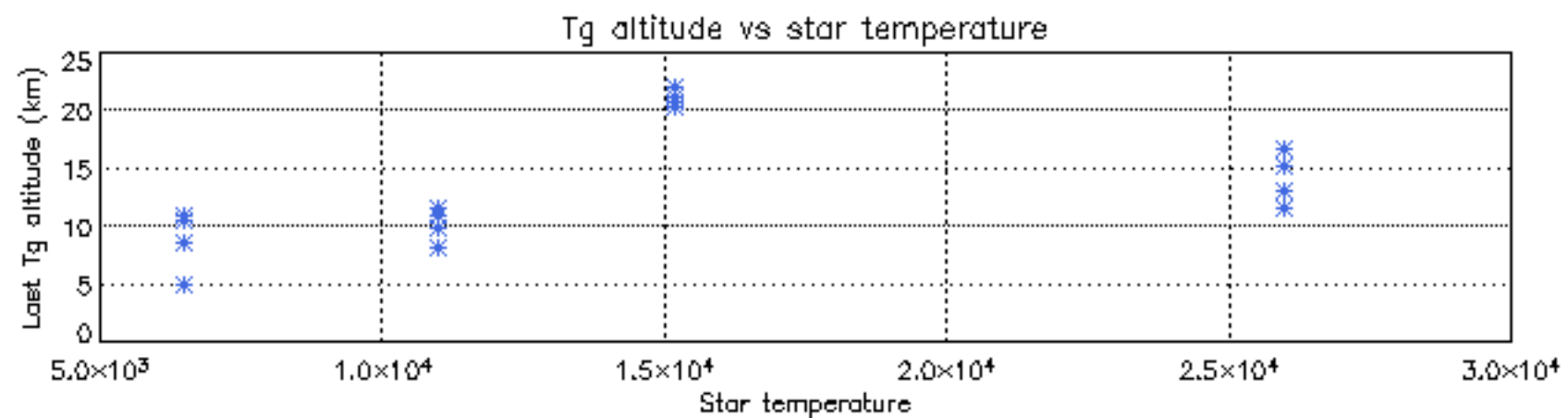
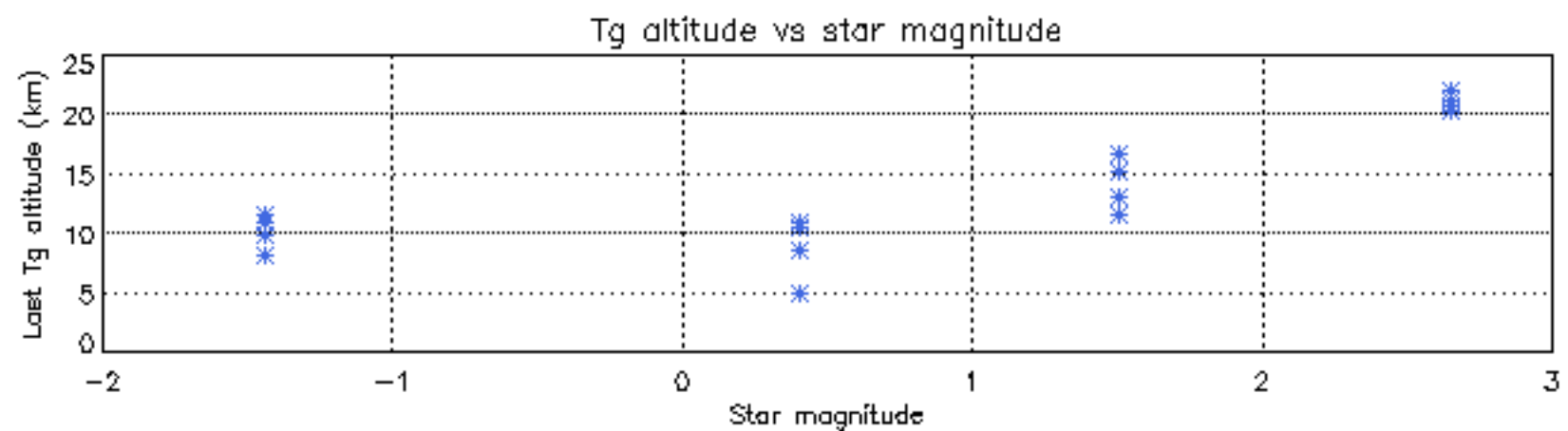
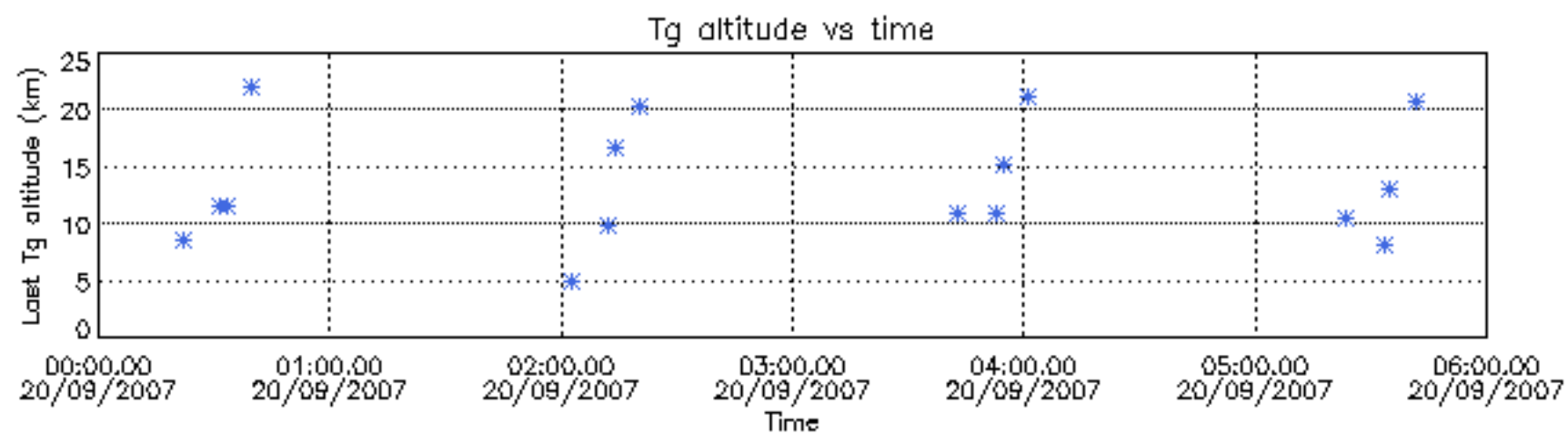
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

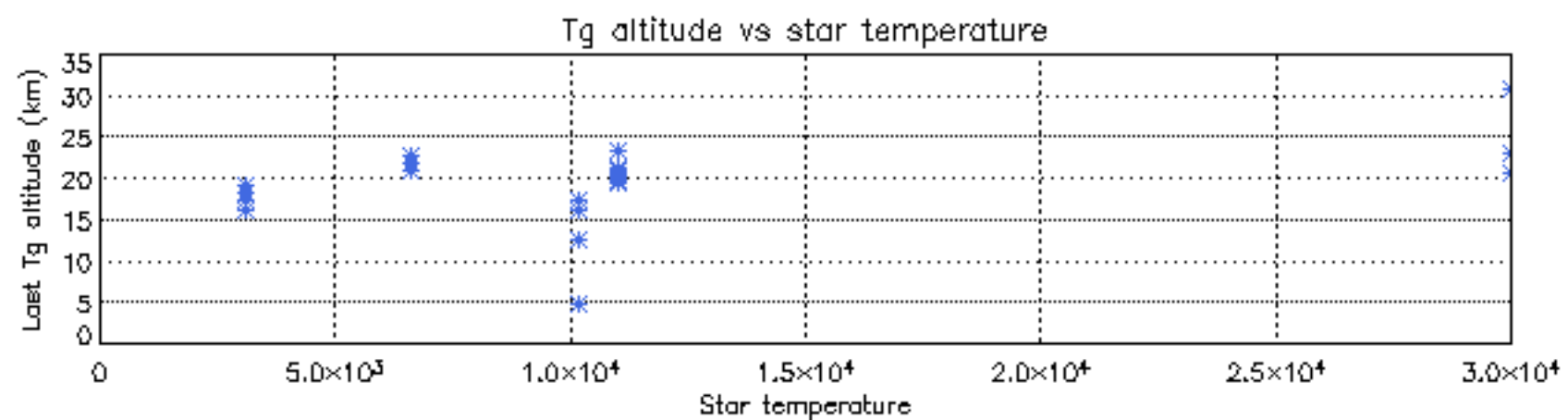
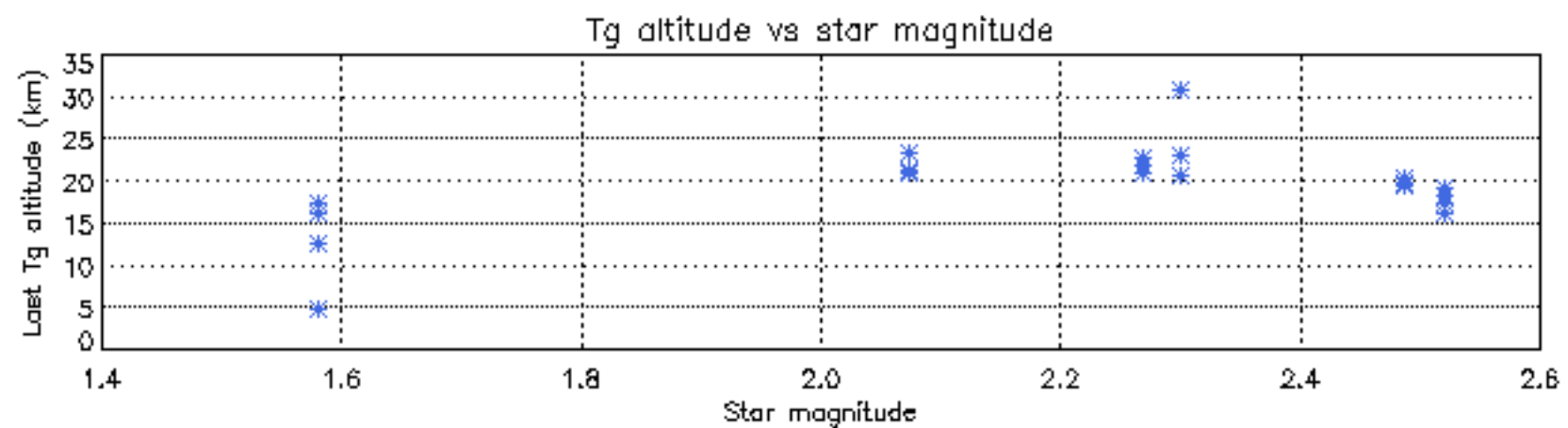
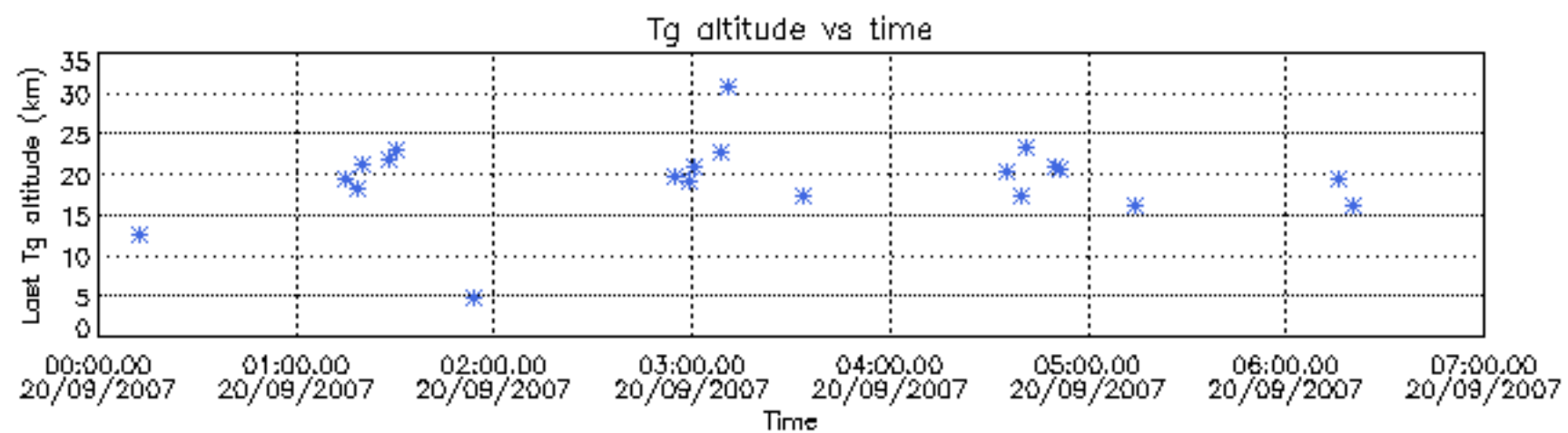


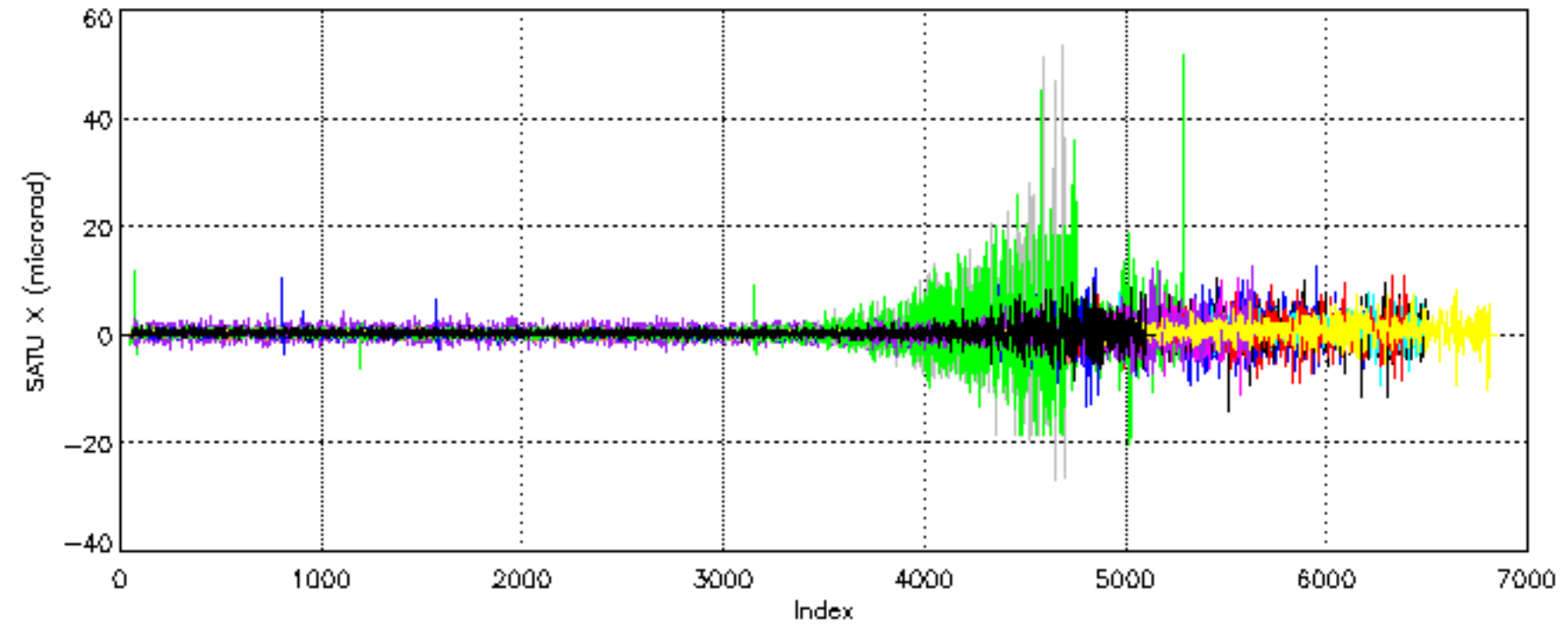
Tangent altitude at which the star is lost

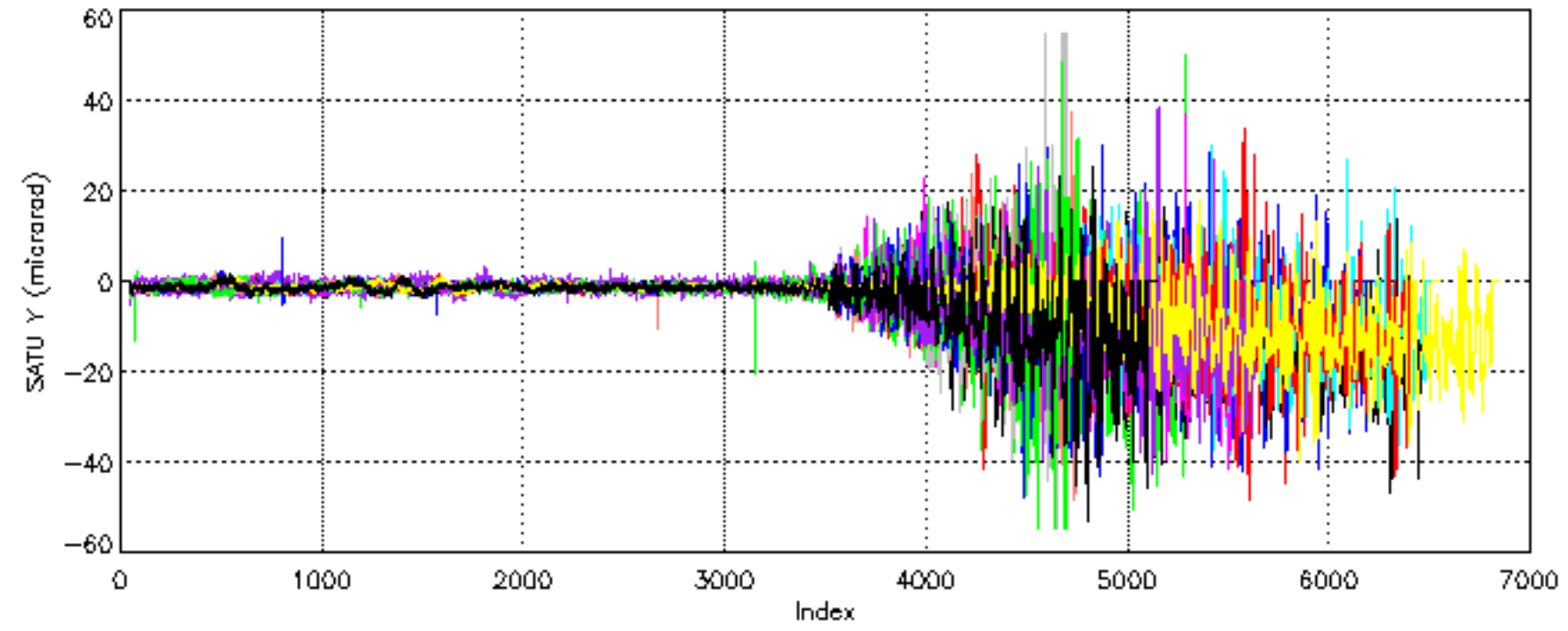




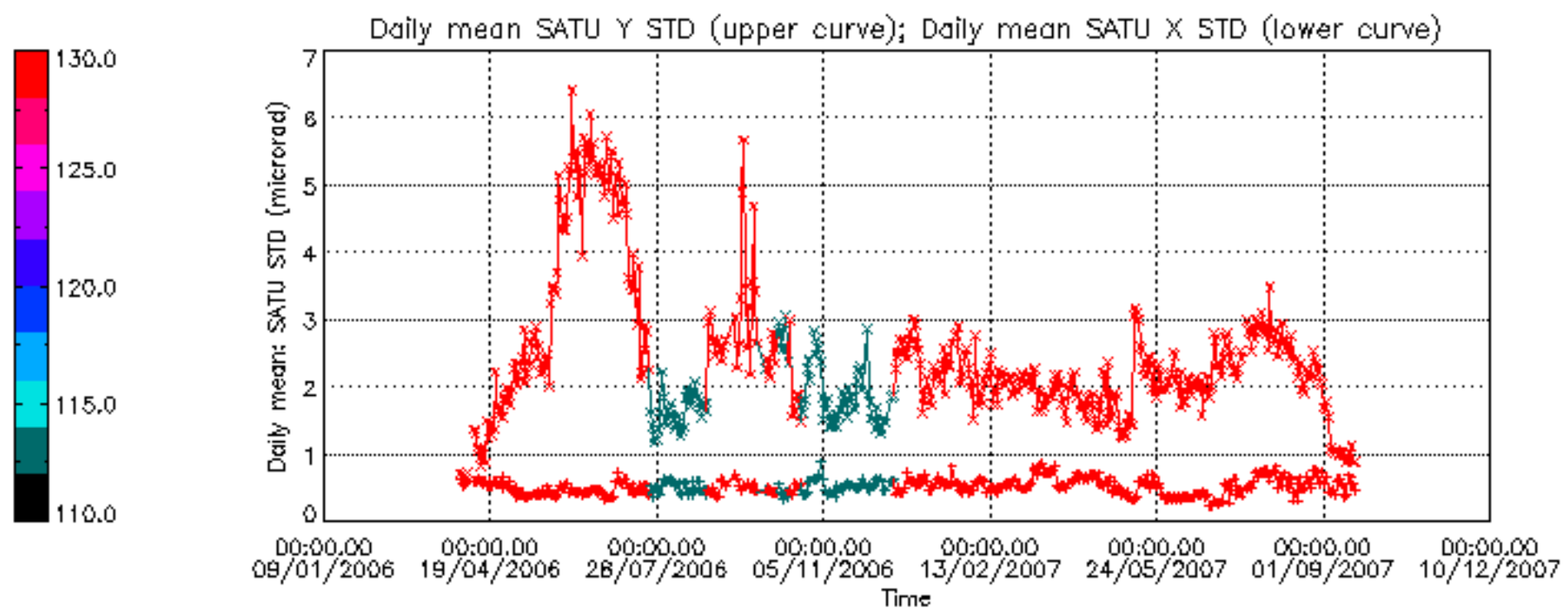
Tangent altitude at which the star is lost











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 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770  
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771  
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771  
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771  
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771  
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771  
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771  
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771  
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771  
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771  
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771  
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771  
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771  
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771  
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771  
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772  
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772  
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772  
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772  
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772  
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772  
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772  
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772  
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772  
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772  
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 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772  
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 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773  
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773  
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773  
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773  
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773  
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773  
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 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773  
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773  
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773  
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773  
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773  
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 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774  
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 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774  
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774  
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
19; 3434.8; 01-SEP-2007 06:33:51; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;28774
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 2; 1331.2; 01-SEP-2007 21:04:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28783
 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
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 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
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 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
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11; 2075.4; 01-SEP-2007 22:57:11; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28784
12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
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13; 2075.3; 02-SEP-2007 00:37:46; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28785
14; 2975.1; 02-SEP-2007 00:52:46; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28785
15; 3434.6; 02-SEP-2007 01:00:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28785
16; 4453.6; 02-SEP-2007 01:17:25; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28785
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9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787  
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16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788  
17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788  
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3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797  
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7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798  
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

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 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799  
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799  
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 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799  
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 9; 4925.4; 03-SEP-2007 17:39:39; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;28809  
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 11; 5557.2; 03-SEP-2007 17:50:10; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28809  
 12; 5647.8; 03-SEP-2007 17:51:41; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;28809  
 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809  
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 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809  
 16; 6581.5; 03-SEP-2007 18:07:15; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28809  
 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809  
 18; 7096.9; 03-SEP-2007 18:15:50; Dark ; 36.5; 63; Bet Gru ; 2.15; 2800;occ; 73; 0;28809

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 3; 1624.0; 03-SEP-2007 18:25:13; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;28810  
 4; 1810.8; 03-SEP-2007 18:28:20; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28810  
 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810  
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 9; 4457.2; 03-SEP-2007 19:12:26; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28810  
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 11; 5395.6; 03-SEP-2007 19:28:05; Dark ; 57.5; 1; 9Alp CMa ; -1.44; 11000;occ; 115; 0;28810  
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 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
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 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
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 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 3; 1018.3; 05-SEP-2007 00:25:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28828
 4; 3139.9; 05-SEP-2007 01:01:16; Bright; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;28828
 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
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 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
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3; 2408.0; 17-SEP-2007 14:36:49; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;29008

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8; 1083.4; 19-SEP-2007 04:48:30; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29031
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 11; 5903.3; 23-SEP-2007 10:44:45; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29091  
 12; 5997.4; 23-SEP-2007 10:46:19; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;29091  
 13; 6623.9; 23-SEP-2007 10:56:46; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29091  
 14; 6720.5; 23-SEP-2007 10:58:22; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29091  
 15; 7161.3; 23-SEP-2007 11:05:43; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;29091  
 16; 7436.4; 23-SEP-2007 11:10:18; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;29091

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 2; 2103.7; 23-SEP-2007 11:22:01; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29092  
 3; 2981.2; 23-SEP-2007 11:36:39; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29092  
 4; 3518.9; 23-SEP-2007 11:45:36; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29092  
 5; 3889.9; 23-SEP-2007 11:51:48; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;29092  
 6; 3978.1; 23-SEP-2007 11:53:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29092  
 7; 4166.7; 23-SEP-2007 11:56:24; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29092  
 8; 5705.1; 23-SEP-2007 12:22:03; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29092  
 9; 5791.9; 23-SEP-2007 12:23:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29092  
 10; 5903.5; 23-SEP-2007 12:25:21; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29092  
 11; 5997.7; 23-SEP-2007 12:26:55; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;29092  
 12; 6624.1; 23-SEP-2007 12:37:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29092  
 13; 6720.9; 23-SEP-2007 12:38:58; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29092  
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 15; 7436.6; 23-SEP-2007 12:50:54; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;29092

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 3; 2981.3; 23-SEP-2007 13:17:15; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;29093  
 4; 3430.2; 23-SEP-2007 13:24:44; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29093  
 5; 3519.2; 23-SEP-2007 13:26:13; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29093



6; 3890.1; 23-SEP-2007 13:32:24; Bright; 32.5; 36; 50Alp UMA ; 1.80; 6300;occ; 65; 0;29093  
7; 3978.3; 23-SEP-2007 13:33:52; Bright; 34.0; 82; 48Bet UMA ; 2.37; 10600;occ; 68; 0;29093  
8; 4167.0; 23-SEP-2007 13:37:00; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29093  
9; 5705.5; 23-SEP-2007 14:02:39; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;29093  
10; 5792.3; 23-SEP-2007 14:04:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29093  
11; 5903.8; 23-SEP-2007 14:05:57; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29093  
12; 5998.0; 23-SEP-2007 14:07:31; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29093  
13; 6624.2; 23-SEP-2007 14:17:58; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;29093  
14; 6721.4; 23-SEP-2007 14:19:35; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29093  
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16; 7436.8; 23-SEP-2007 14:31:30; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;29093

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2; 1920.4; 23-SEP-2007 14:40:10; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29094  
3; 2104.2; 23-SEP-2007 14:43:14; Bright; 36.0; 61; 8Eps Peg ; 2.10; 3900;occ; 72; 0;29094  
4; 2981.4; 23-SEP-2007 14:57:51; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29094  
5; 3430.1; 23-SEP-2007 15:05:19; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29094  
6; 3519.5; 23-SEP-2007 15:06:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29094  
7; 3890.3; 23-SEP-2007 15:13:00; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29094  
8; 3978.6; 23-SEP-2007 15:14:28; Bright; 33.5; 82; 48Bet UMA ; 2.37; 10600;occ; 67; 0;29094  
9; 4167.3; 23-SEP-2007 15:17:37; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29094  
10; 4566.8; 23-SEP-2007 15:24:16; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;29094  
11; 5705.8; 23-SEP-2007 15:43:15; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29094  
12; 5792.6; 23-SEP-2007 15:44:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29094  
13; 5904.2; 23-SEP-2007 15:46:34; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;29094  
14; 5998.4; 23-SEP-2007 15:48:08; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;29094  
15; 6624.4; 23-SEP-2007 15:58:34; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;29094  
16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094  
17; 7161.9; 23-SEP-2007 16:07:31; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;29094

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2; 1920.4; 23-SEP-2007 16:20:46; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29095  
3; 2104.3; 23-SEP-2007 16:23:50; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;29095  
4; 2981.5; 23-SEP-2007 16:38:27; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29095  
5; 3430.0; 23-SEP-2007 16:45:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29095  
6; 3519.7; 23-SEP-2007 16:47:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29095  
7; 3890.4; 23-SEP-2007 16:53:36; Bright; 52.0; 36; 50Alp UMA ; 1.80; 6300;occ; 104; 0;29095  
8; 3978.7; 23-SEP-2007 16:55:04; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29095  
9; 4167.5; 23-SEP-2007 16:58:13; Bright; 32.5; 174; 52Psi UMA ; 3.00; 4400;occ; 65; 0;29095  
10; 4567.1; 23-SEP-2007 17:04:52; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29095  
11; 5706.0; 23-SEP-2007 17:23:51; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29095  
12; 5793.0; 23-SEP-2007 17:25:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29095  
13; 5904.4; 23-SEP-2007 17:27:10; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29095  
14; 5998.7; 23-SEP-2007 17:28:44; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;29095  
15; 6624.6; 23-SEP-2007 17:39:10; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29095  
16; 6722.4; 23-SEP-2007 17:40:48; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29095  
17; 7162.1; 23-SEP-2007 17:48:07; Dark ; 3.0; 63; Bet Gru ; 2.15; 2800;occ; 6; 0;29095

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2; 1401.3; 23-SEP-2007 17:52:43; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;29096  
3; 1920.5; 23-SEP-2007 18:01:22; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29096  
4; 2104.6; 23-SEP-2007 18:04:26; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29096  
5; 2981.7; 23-SEP-2007 18:19:03; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29096  
6; 3430.0; 23-SEP-2007 18:26:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29096  
7; 3520.0; 23-SEP-2007 18:28:01; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29096  
8; 3890.4; 23-SEP-2007 18:34:12; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;29096  
9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096  
10; 4167.6; 23-SEP-2007 18:38:49; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29096  
11; 4567.2; 23-SEP-2007 18:45:28; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;29096  
12; 5706.3; 23-SEP-2007 19:04:28; Dark ; 39.0; 65; Lam Vel ; 2.20; 4400;occ; 78; 0;29096  
13; 5793.3; 23-SEP-2007 19:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29096  
14; 5904.6; 23-SEP-2007 19:07:46; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29096  
15; 5998.9; 23-SEP-2007 19:09:20; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29096  
16; 6624.7; 23-SEP-2007 19:19:46; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29096  
17; 6722.6; 23-SEP-2007 19:21:24; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29096

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2; 1401.4; 23-SEP-2007 19:33:19; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;29097

3; 1920.7; 23-SEP-2007 19:41:58; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29097  
4; 2104.7; 23-SEP-2007 19:45:02; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29097  
5; 2981.7; 23-SEP-2007 19:59:39; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29097  
6; 3430.0; 23-SEP-2007 20:07:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29097  
7; 3520.3; 23-SEP-2007 20:08:38; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29097  
8; 3890.6; 23-SEP-2007 20:14:48; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29097  
9; 3978.9; 23-SEP-2007 20:16:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29097  
10; 4167.8; 23-SEP-2007 20:19:25; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29097  
11; 4567.3; 23-SEP-2007 20:26:05; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29097  
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13; 5793.5; 23-SEP-2007 20:46:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29097  
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16; 6624.7; 23-SEP-2007 21:00:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29097  
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3; 1932.5; 27-SEP-2007 22:37:29; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29156  
4; 2422.9; 27-SEP-2007 22:45:39; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;29156  
5; 2990.7; 27-SEP-2007 22:55:07; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29156  
6; 3429.4; 27-SEP-2007 23:02:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29156  
7; 3537.6; 27-SEP-2007 23:04:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;29156  
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7; 712.5; 27-SEP-2007 23:57:45; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29157  
8; 1412.5; 28-SEP-2007 00:09:25; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29157  
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13; 3537.9; 28-SEP-2007 00:44:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29157  
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16; 4179.8; 28-SEP-2007 00:55:32; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29157  
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