

# GOMOS Daily Report 01-OCT-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	03OCT2007 12:01:53
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02OCT2007 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)

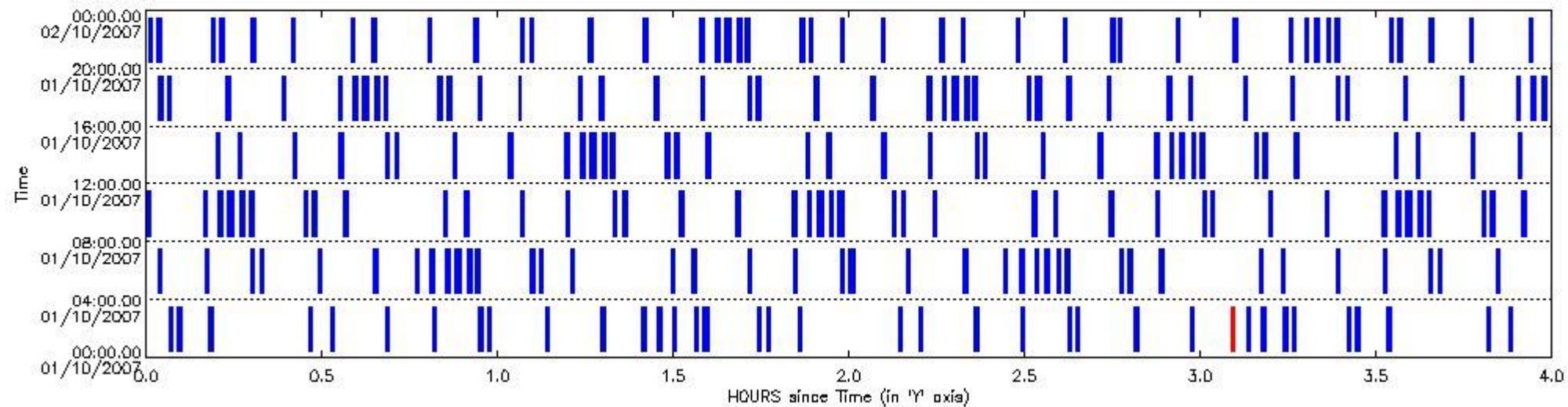
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

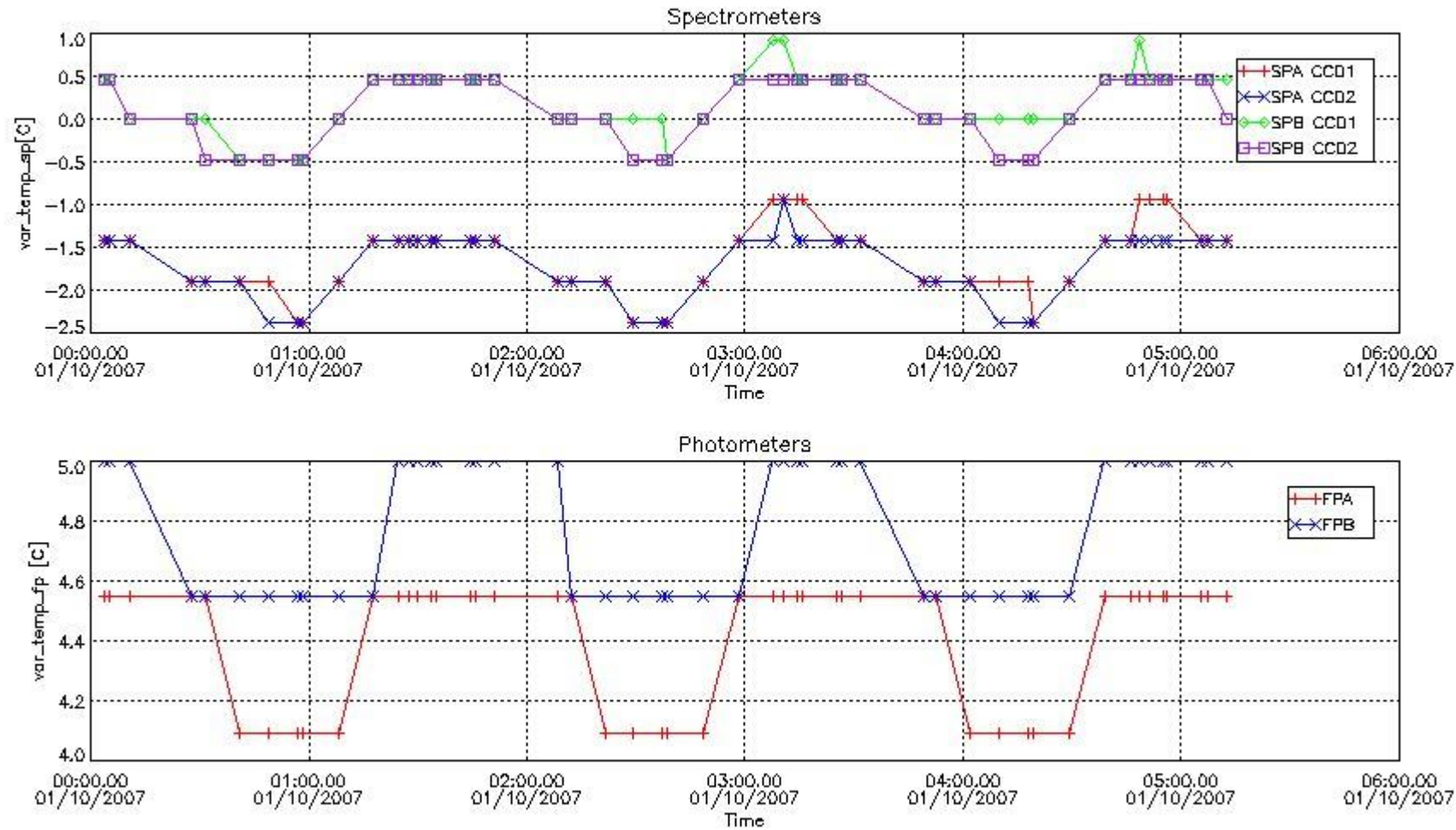
UTC start time	Star name	Star ID	Orbit
01-OCT-2007 03:05:13	15RhoPup	132	29201

### 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_1PNPDE20071001_000347_000000392062_00088_29200_5665.N1	01-OCT-2007 00:03:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29200	No
2	GOM_TRA_1PNPDE20071001_000515_000000482062_00088_29200_5666.N1	01-OCT-2007 00:05:15	Dark	47.500	9	Alp Eri	0.45300	24000.	95	29200	No
3	GOM_TRA_1PNPDE20071001_001037_000000402062_00088_29200_5667.N1	01-OCT-2007 00:10:37	Straylight	39.500	84	Alp Phe	2.3970	4500.0	79	29200	No
4	GOM_TRA_1PNPDE20071001_002745_000000362062_00088_29200_5668.N1	01-OCT-2007 00:27:45	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29200	No
5	GOM_TRA_1PNPDE20071001_003124_000000392062_00088_29200_5669.N1	01-OCT-2007 00:31:24	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	29200	No
6	GOM_TRA_1PNPDE20071001_004051_000000392062_00088_29200_5670.N1	01-OCT-2007 00:40:51	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	29200	No
7	GOM_TRA_1PNPDE20071001_004846_000000362062_00088_29200_5671.N1	01-OCT-2007 00:48:46	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29200	No
8	GOM_TRA_1PNPDE20071001_005643_000000492062_00088_29200_5672.N1	01-OCT-2007 00:56:43	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	29200	No
9	GOM_TRA_1PNPDE20071001_005813_000000392062_00088_29200_5673.N1	01-OCT-2007 00:58:13	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	29200	No
10	GOM_TRA_1PNPDE20071001_010804_000000362062_00088_29200_5674.N1	01-OCT-2007 01:08:04	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	29200	No

11	GOM_TRA_1PNPDE20071001_011737_000000442062_00088_29200_5675.N1	01-OCT-2007 01:17:37	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	29200	No
12	GOM_TRA_1PNPDE20071001_012440_000000402062_00088_29200_5665.N1	01-OCT-2007 01:24:40	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	29200	No
13	GOM_TRA_1PNPDE20071001_012717_000000432062_00088_29200_5666.N1	01-OCT-2007 01:27:17	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29200	No
14	GOM_TRA_1PNPDE20071001_012952_000000392062_00088_29200_5667.N1	01-OCT-2007 01:29:52	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	29200	No
15	GOM_TRA_1PNPDE20071001_013336_000000422062_00089_29201_5668.N1	01-OCT-2007 01:33:36	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	29201	No
16	GOM_TRA_1PNPDE20071001_013500_000000592062_00089_29201_5669.N1	01-OCT-2007 01:35:00	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	29201	No
17	GOM_TRA_1PNPDE20071001_014423_000000392062_00089_29201_5670.N1	01-OCT-2007 01:44:23	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29201	No
18	GOM_TRA_1PNPDE20071001_014551_000000452062_00089_29201_5671.N1	01-OCT-2007 01:45:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	29201	No
19	GOM_TRA_1PNPDE20071001_015113_000000412062_00089_29201_5672.N1	01-OCT-2007 01:51:13	Straylight	41.000	84	Alp Phe	2.3970	4500.0	82	29201	No
20	GOM_TRA_1PNPDE20071001_020821_000000372062_00089_29201_5673.N1	01-OCT-2007 02:08:21	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29201	No
21	GOM_TRA_1PNPDE20071001_021200_000000362062_00089_29201_5674.N1	01-OCT-2007 02:12:00	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	29201	No
22	GOM_TRA_1PNPDE20071001_022127_000000362062_00089_29201_5675.N1	01-OCT-2007 02:21:27	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	29201	No
23	GOM_TRA_1PNPDE20071001_022922_000000362062_00089_29201_5676.N1	01-OCT-2007 02:29:22	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29201	No
24	GOM_TRA_1PNPDE20071001_023719_000000362062_00089_29201_5670.N1	01-OCT-2007 02:37:19	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29201	No
25	GOM_TRA_1PNPDE20071001_023849_000000332062_00089_29201_5671.N1	01-OCT-2007 02:38:49	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	29201	No
26	GOM_TRA_1PNPDE20071001_024840_000000422062_00089_29201_5672.N1	01-OCT-2007 02:48:40	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	29201	No
27	GOM_TRA_1PNPDE20071001_025813_000000452062_00089_29201_5673.N1	01-OCT-2007 02:58:13	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29201	No
28	GOM_TRA_1PNPDE20071001_030754_000000432062_00089_29201_5674.N1	01-OCT-2007 03:07:54	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29201	No
29	GOM_TRA_1PNPDE20071001_031028_000000402062_00089_29201_5675.N1	01-OCT-2007 03:10:28	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	29201	No
30	GOM_TRA_1PNPDE20071001_031413_000000432062_00090_29202_5676.N1	01-OCT-2007 03:14:13	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	29202	No
31	GOM_TRA_1PNPDE20071001_031537_000000462062_00090_29202_5677.N1	01-OCT-2007 03:15:37	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	29202	No
32	GOM_TRA_1PNPDE20071001_032500_000000402062_00090_29202_5678.N1	01-OCT-2007 03:25:00	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	29202	No
33	GOM_TRA_1PNPDE20071001_032628_000000442062_00090_29202_5679.N1	01-OCT-2007 03:26:28	Dark	44.000	9	Alp Eri	0.45300	24000.	88	29202	No
34	GOM_TRA_1PNPDE20071001_033150_000000412062_00090_29202_5680.N1	01-OCT-2007 03:31:50	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	29202	No
35	GOM_TRA_1PNPDE20071001_034857_000000372062_00090_29202_5681.N1	01-OCT-2007 03:48:57	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29202	No
36	GOM_TRA_1PNPDE20071001_035236_000000362062_00090_29202_5682.N1	01-OCT-2007 03:52:36	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	29202	No
37	GOM_TRA_1PNPDE20071001_040202_000000392062_00090_29202_5683.N1	01-OCT-2007 04:02:02	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	29202	No
38	GOM_TRA_1PNPDE20071001_040958_000000362062_00090_29202_5684.N1	01-OCT-2007 04:09:58	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29202	No
39	GOM_TRA_1PNPDE20071001_041755_000000362062_00090_29202_5795.N1	01-OCT-2007 04:17:55	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29202	No
40	GOM_TRA_1PNPDE20071001_041925_000000352062_00090_29202_5796.N1	01-OCT-2007 04:19:25	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29202	No
41	GOM_TRA_1PNPDE20071001_042917_000000352062_00090_29202_5797.N1	01-OCT-2007 04:29:17	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	29202	No
42	GOM_TRA_1PNPDE20071001_043849_000000442062_00090_29202_5798.N1	01-OCT-2007 04:38:49	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29202	No
43	GOM_TRA_1PNPDE20071001_044553_000000322062_00090_29202_5799.N1	01-OCT-2007 04:45:53	Dark	32.000	132	15Rho Pup	2.8030	6900.0	64	29202	No
44	GOM_TRA_1PNPDE20071001_044830_000000442062_00090_29202_5800.N1	01-OCT-2007 04:48:30	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29202	No
45	GOM_TRA_1PNPDE20071001_045105_000000412062_00090_29202_5801.N1	01-OCT-2007 04:51:05	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	29202	No
46	GOM_TRA_1PNPDE20071001_045449_000000462062_00091_29203_5802.N1	01-OCT-2007 04:54:49	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	29203	No
47	GOM_TRA_1PNPDE20071001_045614_000000492062_00091_29203_5803.N1	01-OCT-2007 04:56:14	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	29203	No
48	GOM_TRA_1PNPDE20071001_050536_000000392062_00091_29203_5804.N1	01-OCT-2007 05:05:36	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29203	No
49	GOM_TRA_1PNPDE20071001_050704_000000442062_00091_29203_5805.N1	01-OCT-2007 05:07:04	Dark	44.000	9	Alp Eri	0.45300	24000.	88	29203	No
50	GOM_TRA_1PNPDE20071001_051226_000000392062_00091_29203_5806.N1	01-OCT-2007 05:12:26	Straylight	38.500	84	Alp Phe	2.3970	4500.0	77	29203	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.

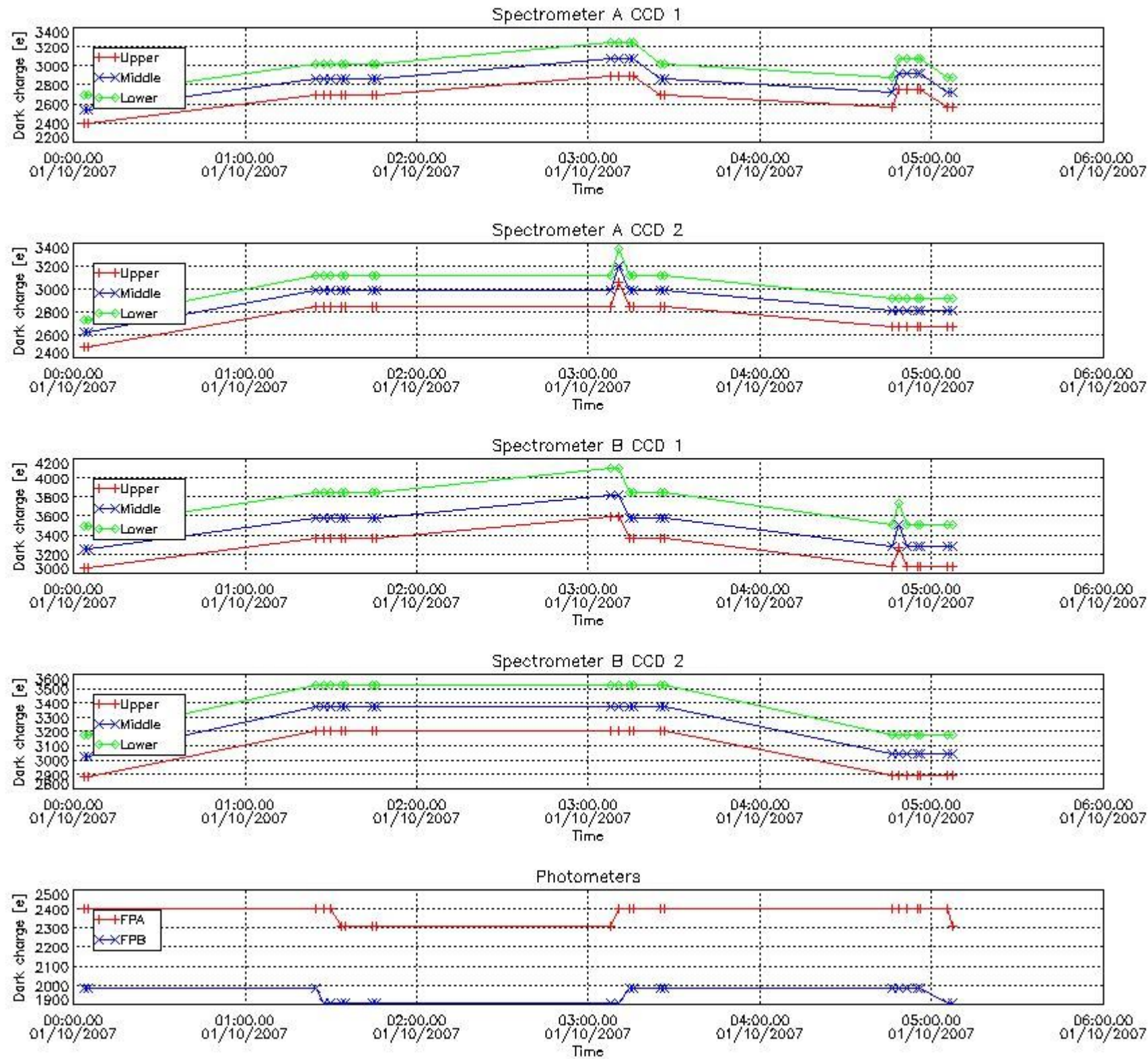
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20071001_012440_000000402062_00088_29200_5665.N1	DC map used
GOM_TRA_1PNPDE20071001_012717_000000432062_00088_29200_5666.N1	DC map used
GOM_TRA_1PNPDE20071001_012952_000000392062_00088_29200_5667.N1	DC map used
GOM_TRA_1PNPDE20071001_013336_000000422062_00089_29201_5668.N1	DC map used
GOM_TRA_1PNPDE20071001_013500_000000592062_00089_29201_5669.N1	DC map used
GOM_TRA_1PNPDE20071001_014423_000000392062_00089_29201_5670.N1	DC map used
GOM_TRA_1PNPDE20071001_014551_000000452062_00089_29201_5671.N1	DC map used
GOM_TRA_1PNPDE20071001_015113_000000412062_00089_29201_5672.N1	DC map used
GOM_TRA_1PNPDE20071001_020821_000000372062_00089_29201_5673.N1	DC map used
GOM_TRA_1PNPDE20071001_021200_000000362062_00089_29201_5674.N1	DC map used
GOM_TRA_1PNPDE20071001_022127_000000362062_00089_29201_5675.N1	DC map used
GOM_TRA_1PNPDE20071001_022922_000000362062_00089_29201_5676.N1	DC map used
GOM_TRA_1PNPDE20071001_023719_000000362062_00089_29201_5670.N1	DC map used
GOM_TRA_1PNPDE20071001_023849_000000332062_00089_29201_5671.N1	DC map used

GOM_TRA_1PNPDE20071001_024840_000000422062_00089_29201_5672.N1	DC map used
GOM_TRA_1PNPDE20071001_025813_000000452062_00089_29201_5673.N1	DC map used
GOM_TRA_1PNPDE20071001_030754_000000432062_00089_29201_5674.N1	DC map used
GOM_TRA_1PNPDE20071001_031028_000000402062_00089_29201_5675.N1	DC map used
GOM_TRA_1PNPDE20071001_031413_000000432062_00090_29202_5676.N1	DC map used
GOM_TRA_1PNPDE20071001_031537_000000462062_00090_29202_5677.N1	DC map used
GOM_TRA_1PNPDE20071001_032500_000000402062_00090_29202_5678.N1	DC map used
GOM_TRA_1PNPDE20071001_032628_000000442062_00090_29202_5679.N1	DC map used
GOM_TRA_1PNPDE20071001_033150_000000412062_00090_29202_5680.N1	DC map used
GOM_TRA_1PNPDE20071001_034857_000000372062_00090_29202_5681.N1	DC map used
GOM_TRA_1PNPDE20071001_035236_000000362062_00090_29202_5682.N1	DC map used
GOM_TRA_1PNPDE20071001_040202_000000392062_00090_29202_5683.N1	DC map used
GOM_TRA_1PNPDE20071001_040958_000000362062_00090_29202_5684.N1	DC map used

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





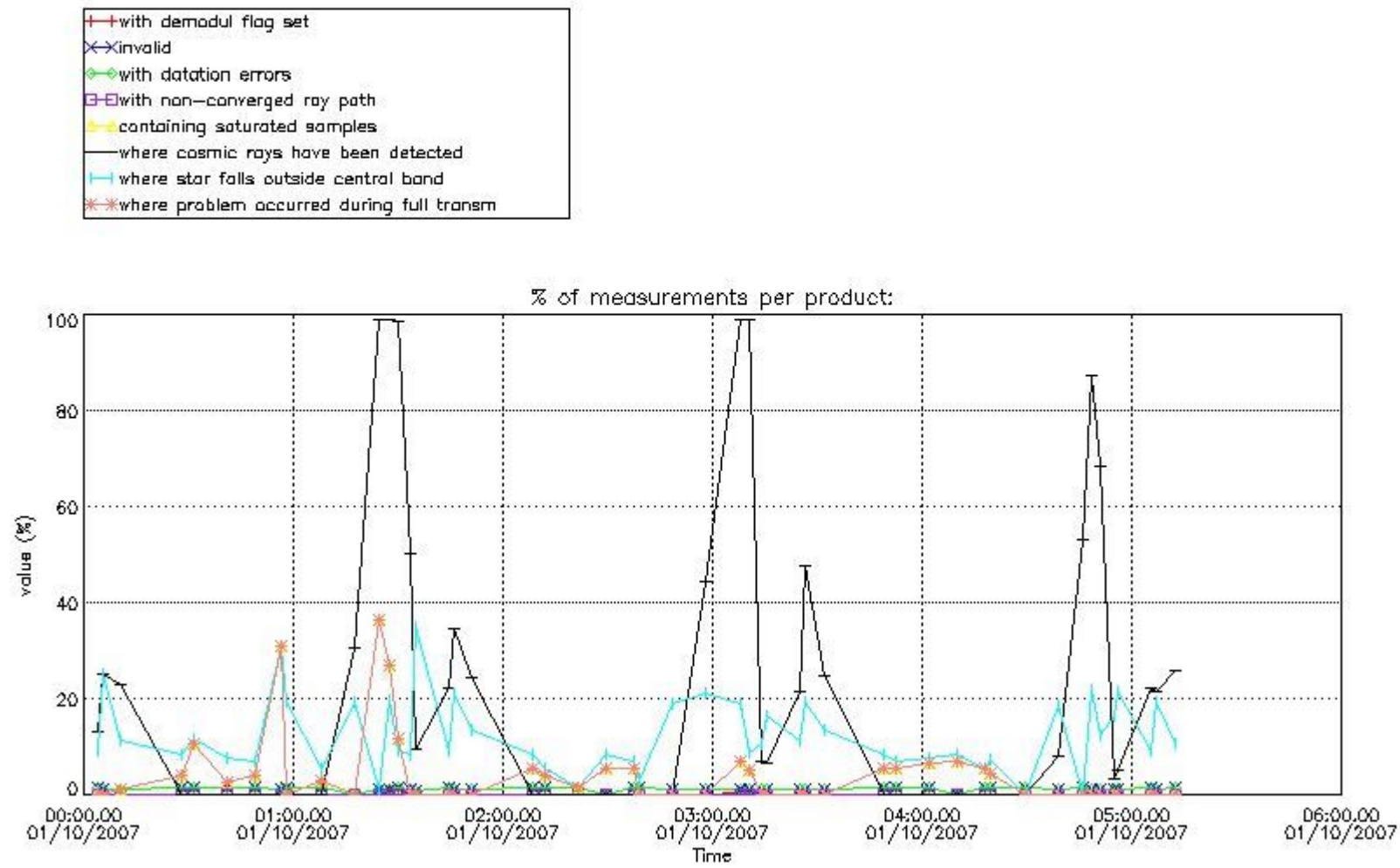
## 5. Demodulation flag and quality information monitoring

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:

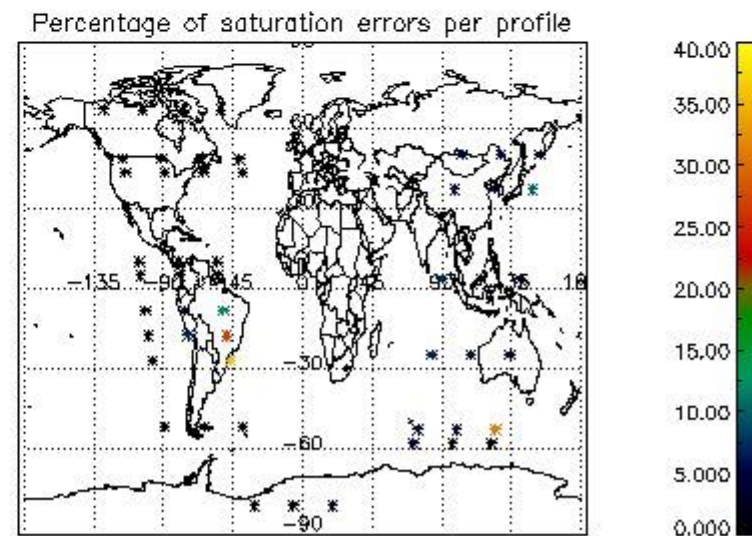
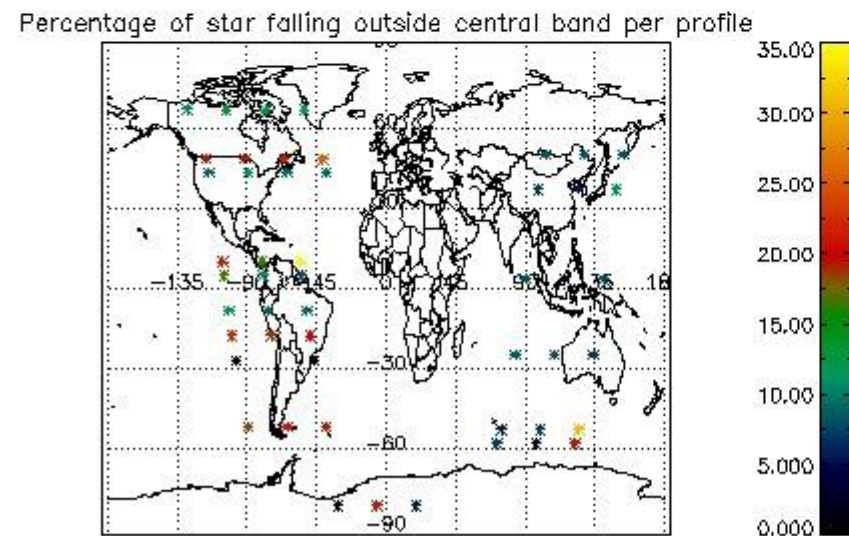
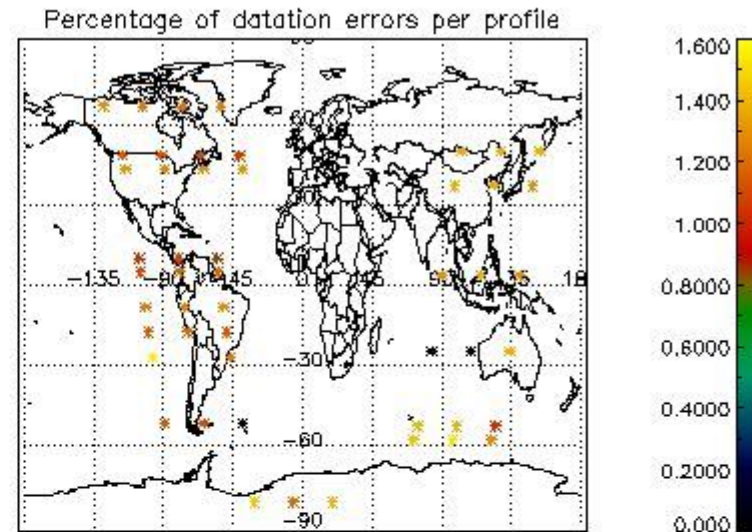
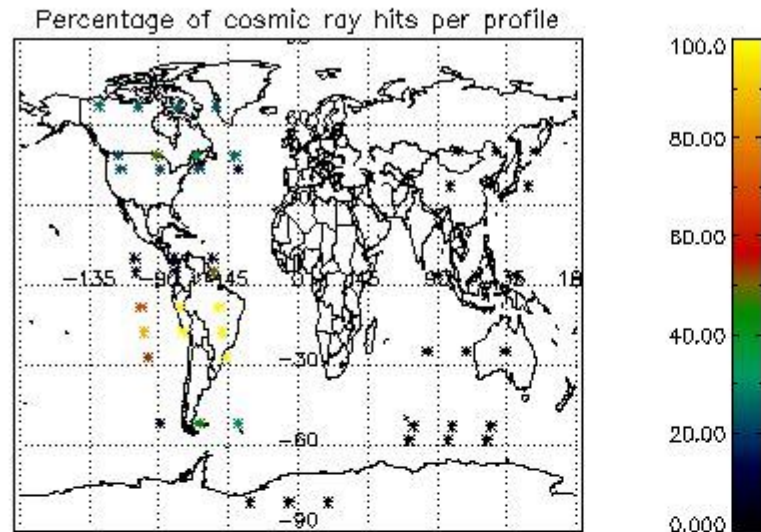
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

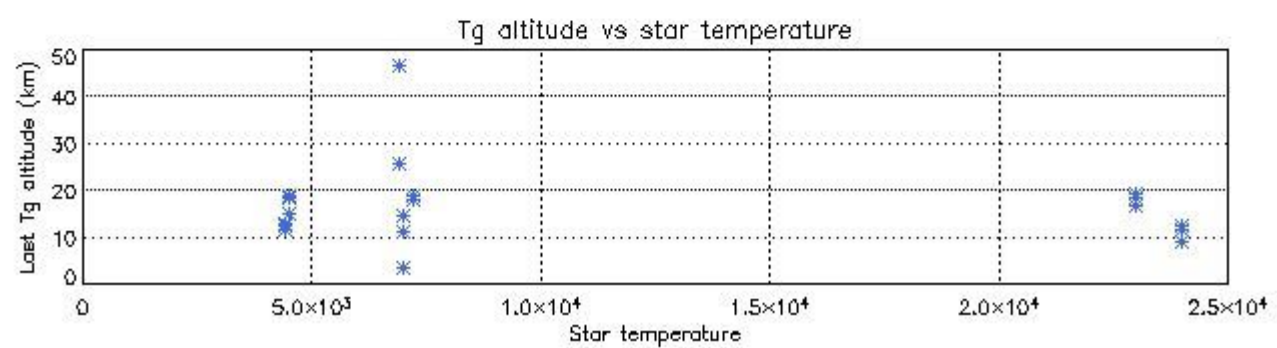
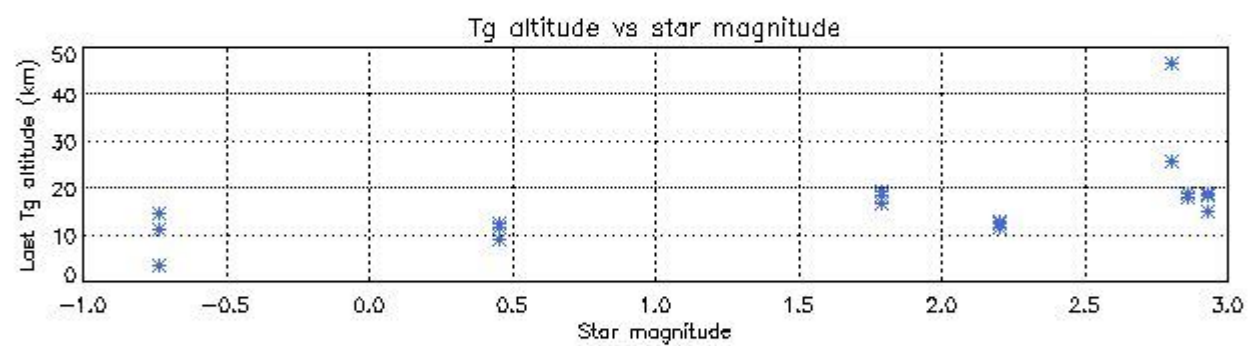
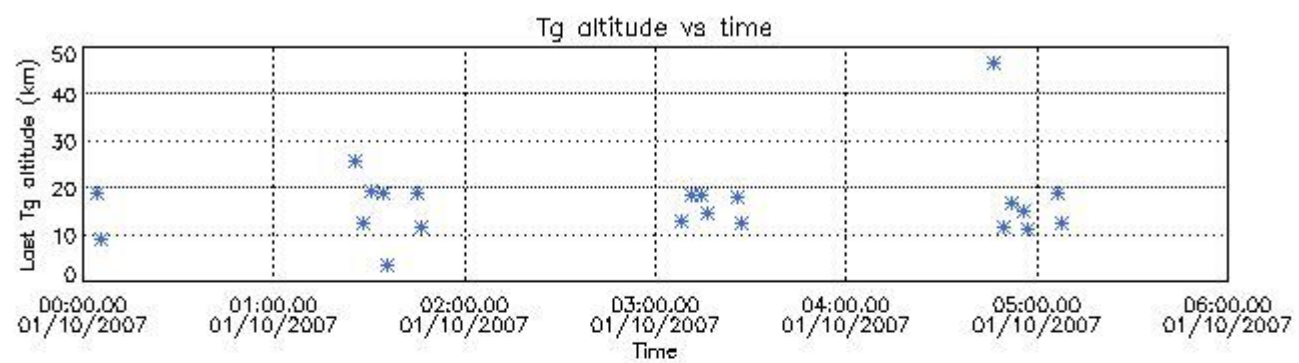
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.555	19.874	11.750
St. deviation:	8.1699	4.5720	0.59320
Maximum:	46.545	27.946	12.270
Minimum:	3.5781	5.7233	11.104
Number of data:	22.000	21.000	3.0000

### 6.2 Plot for DARK limb products

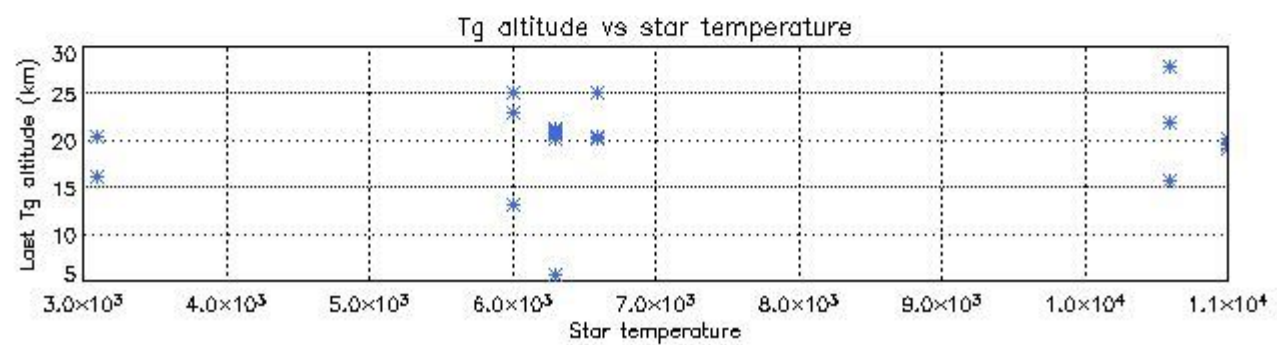
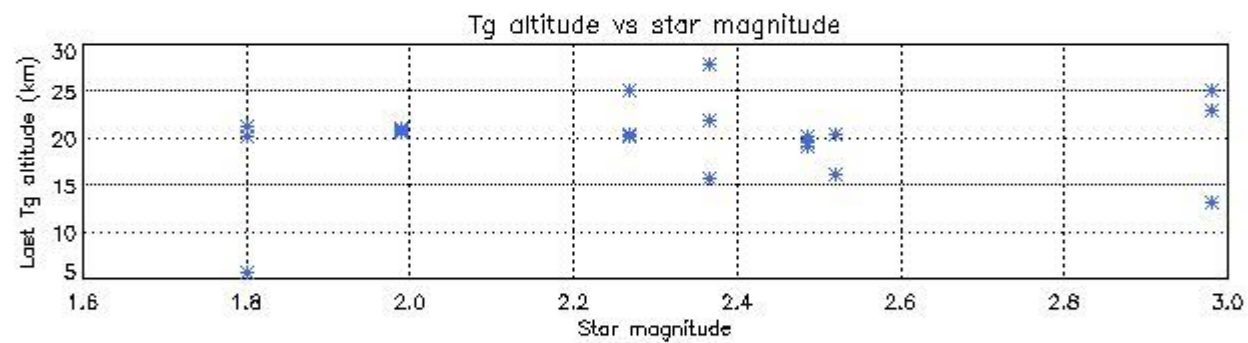
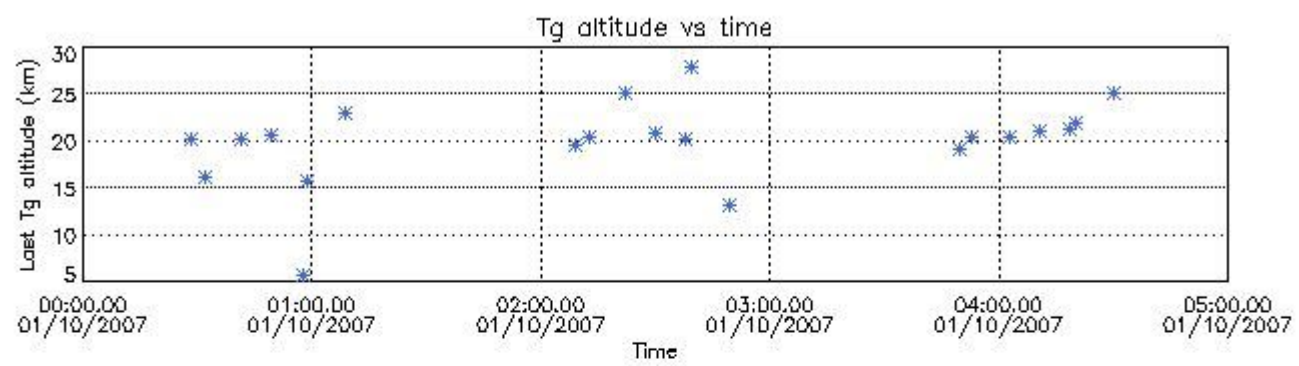


Tangent altitude at which the star is lost



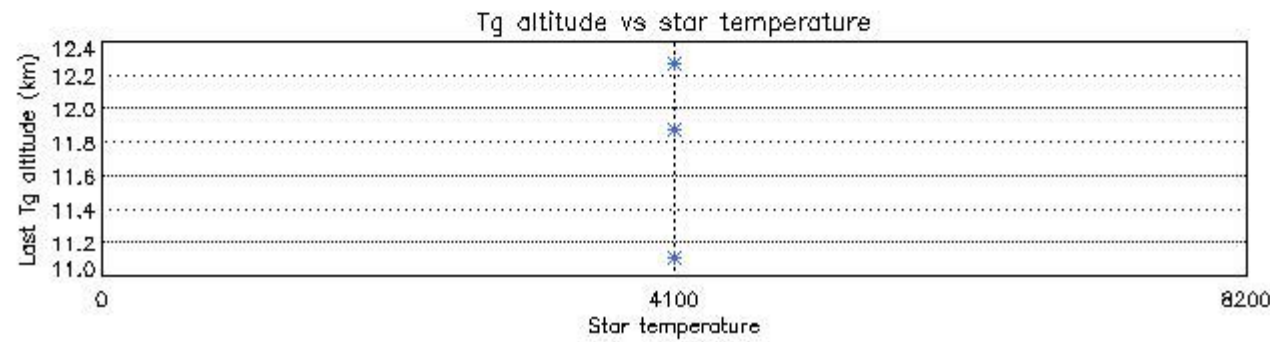
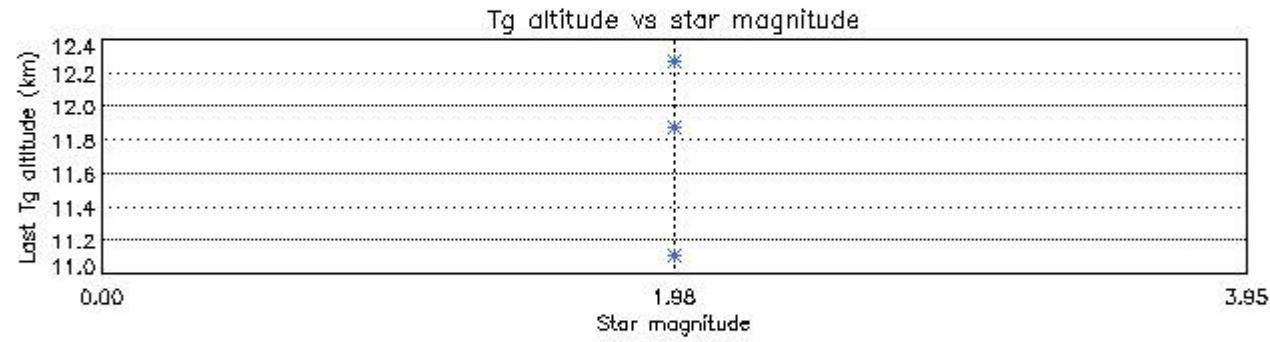
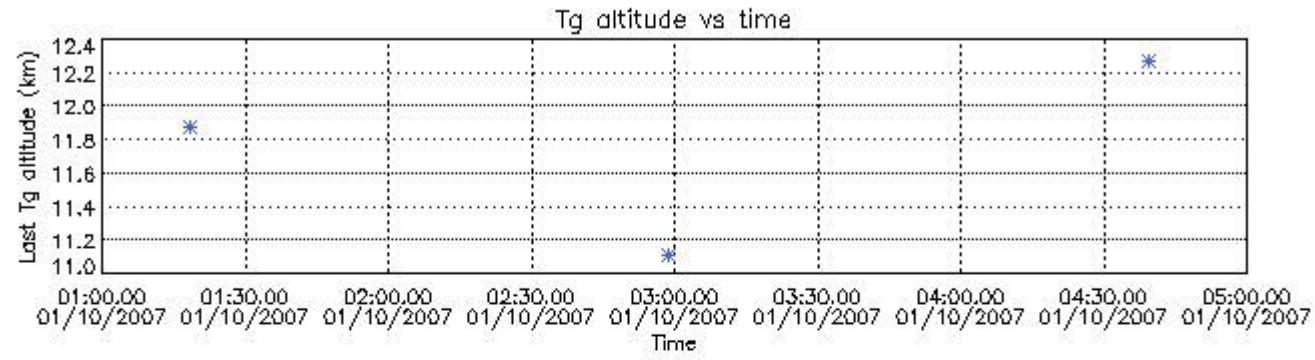
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

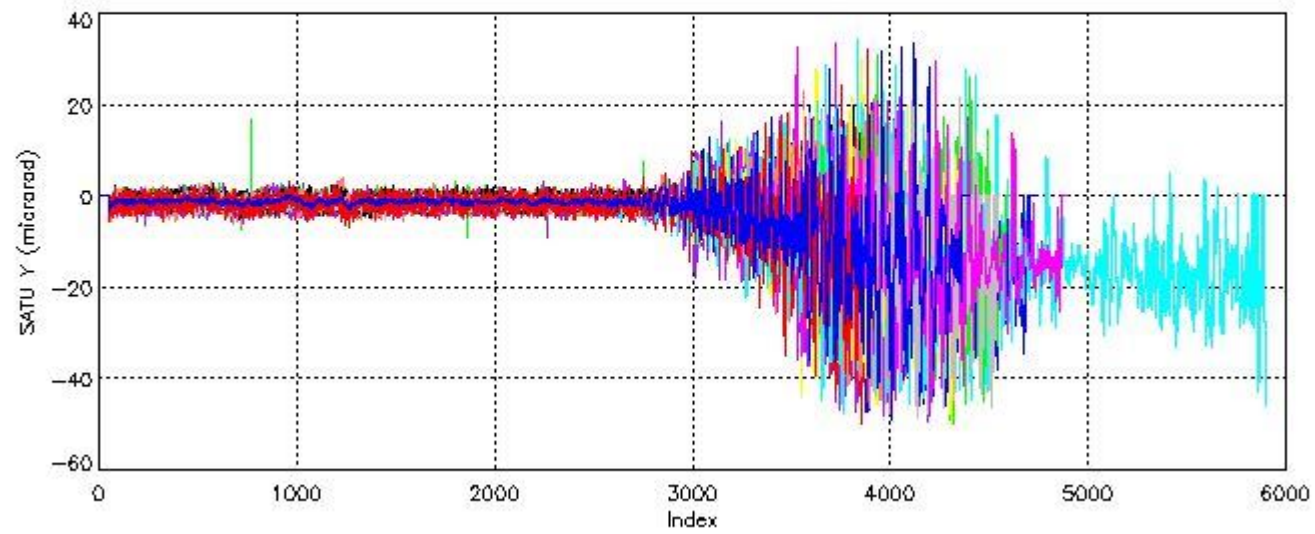
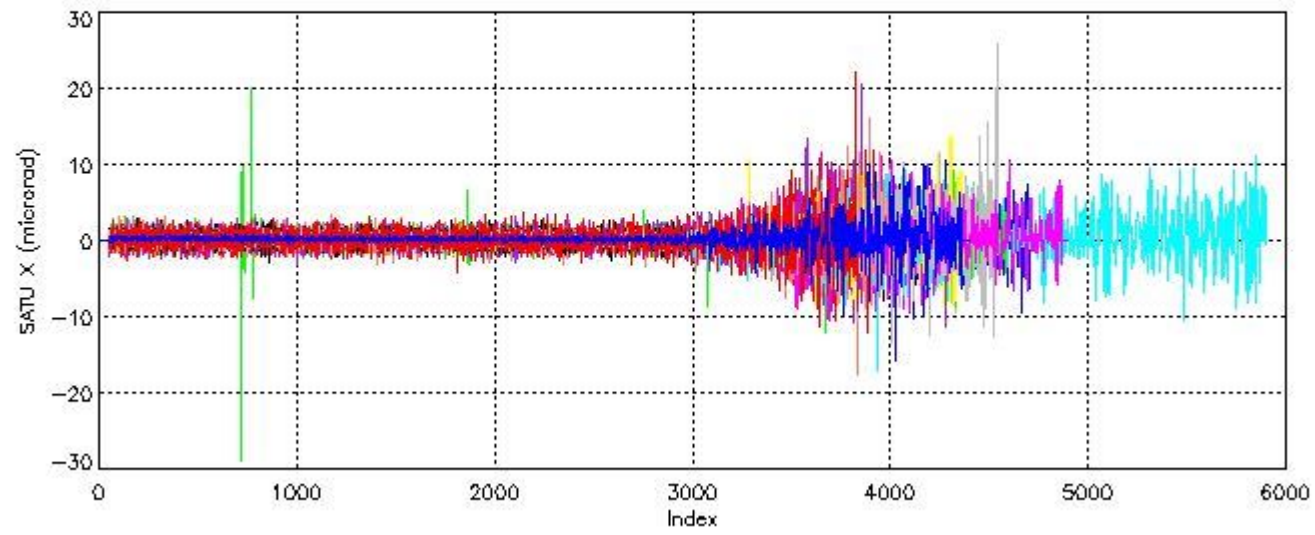


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17441	-1.2938	0.029317	-1.3887
St. deviation:	0.50466	0.95632	0.68172	1.1812
Maximum:	20.000	16.600	3.9000	3.6000
Minimum:	-28.900	-7.3000	-3.8000	-6.4000



Number of data:	20500.	20500.	17250.	17250.
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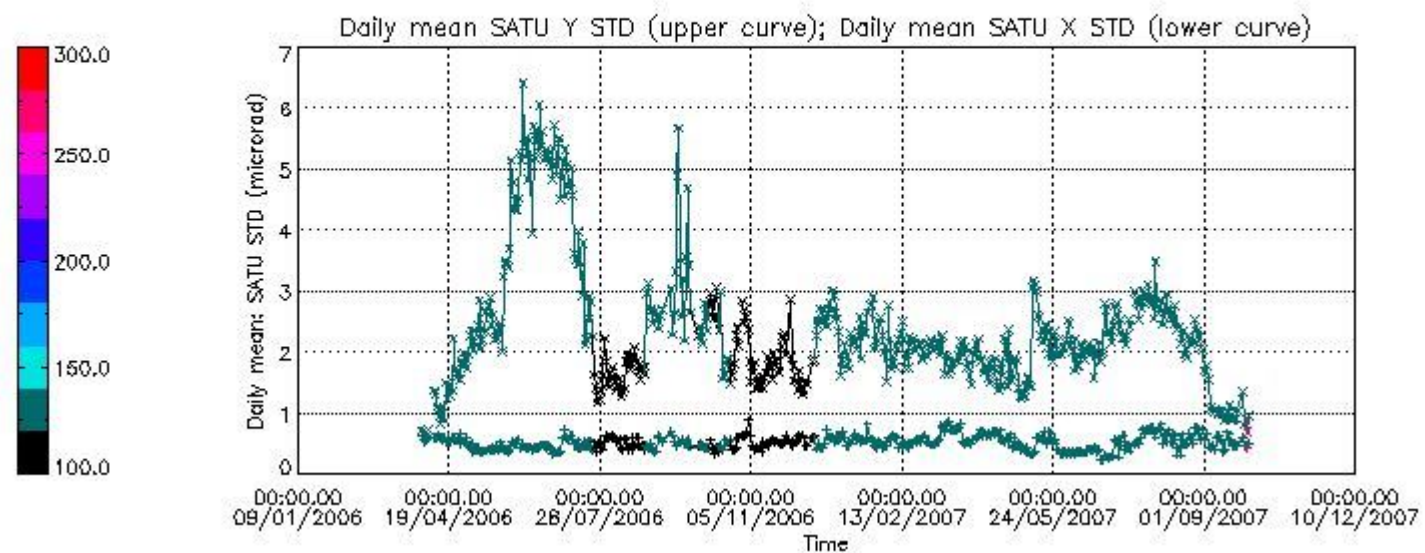
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

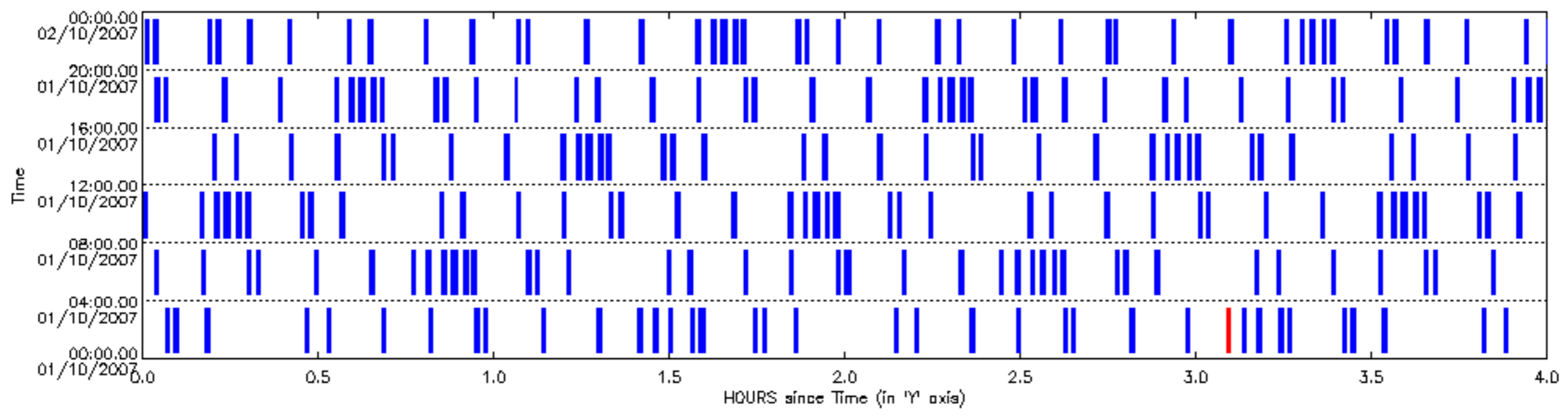
Lower curve: STD of SATU X axis

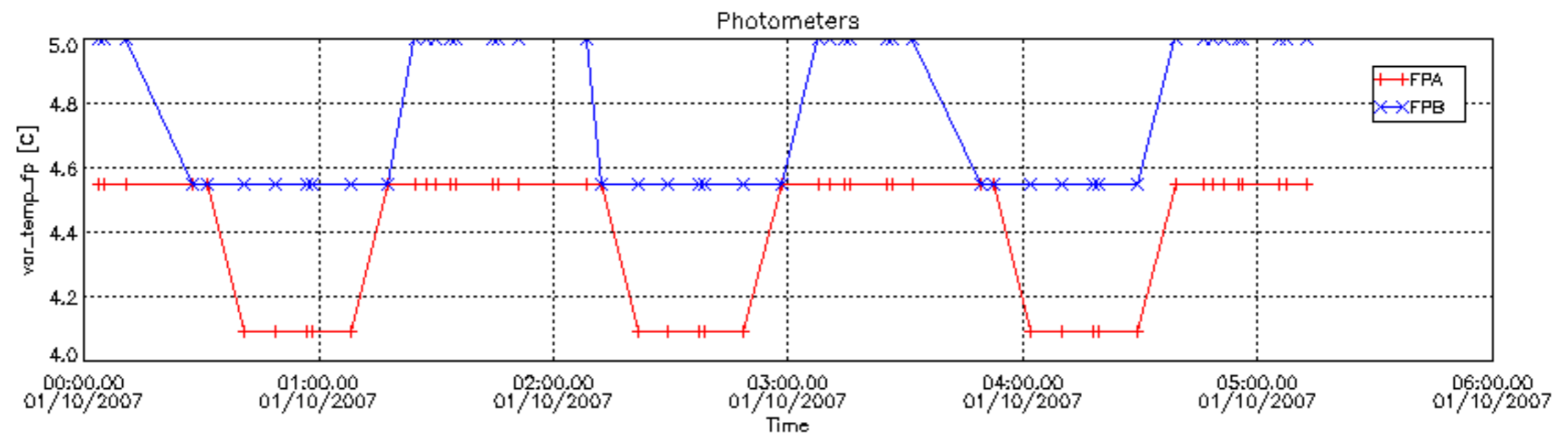
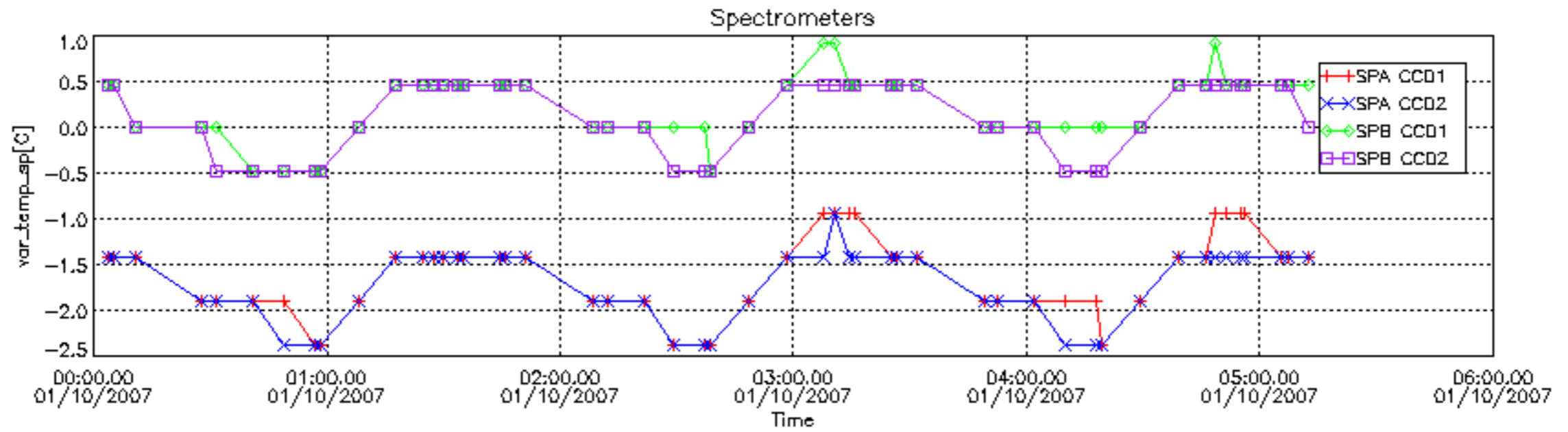


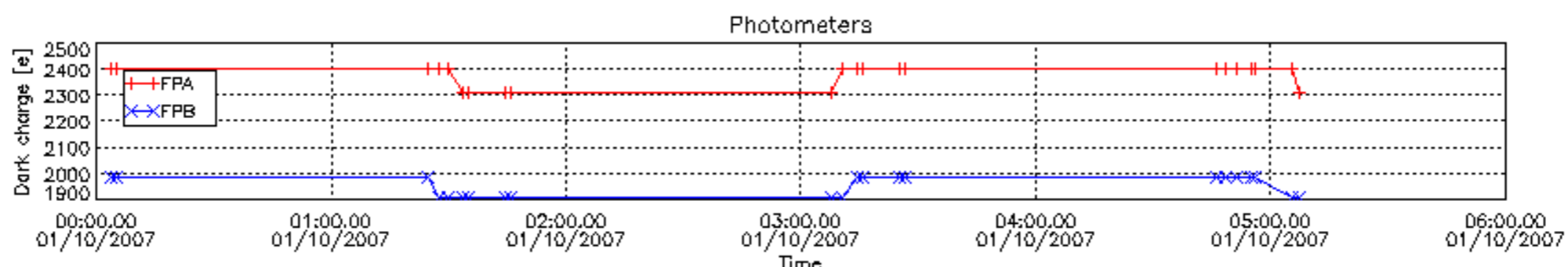
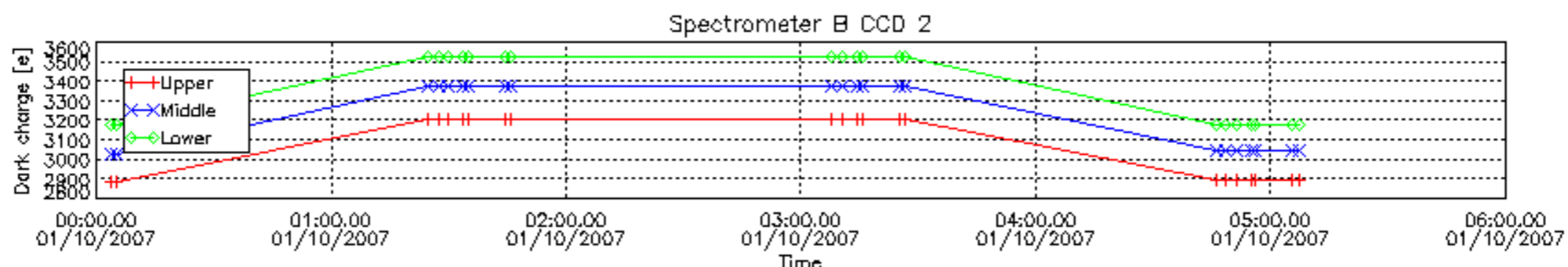
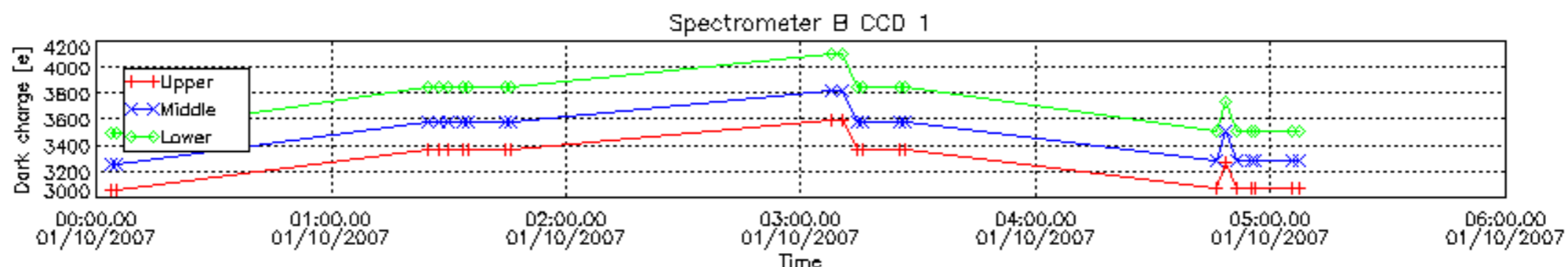
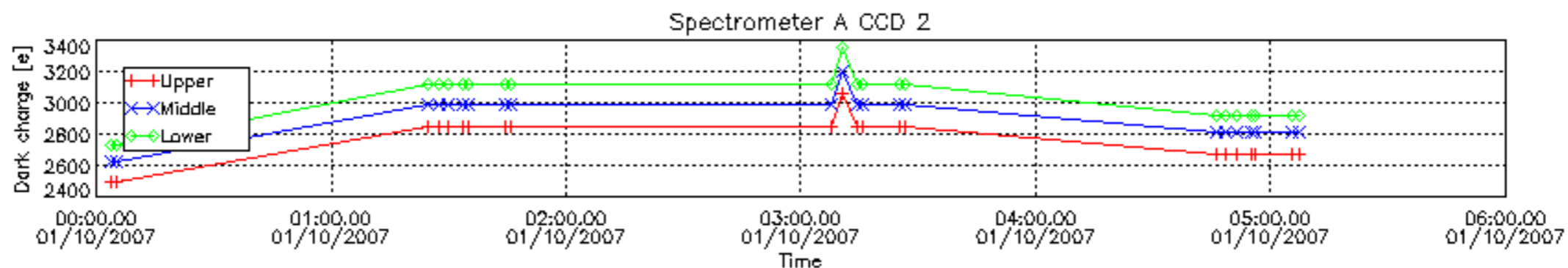
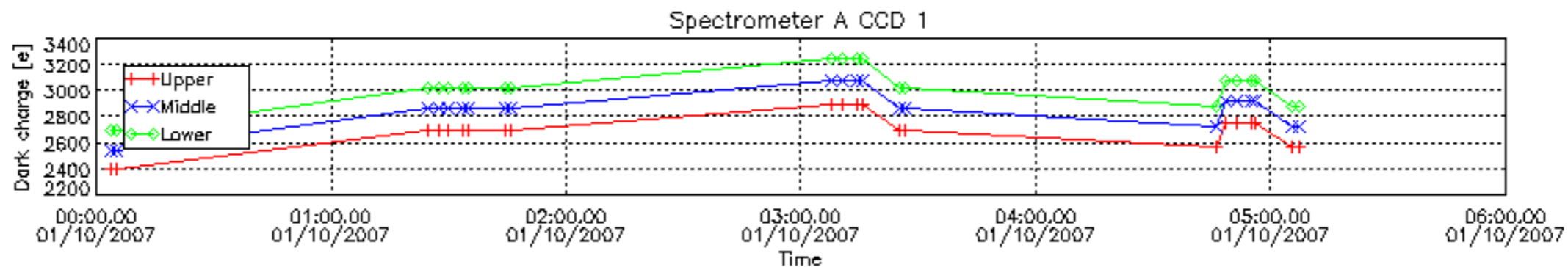
### 8. Auxiliary Data Files used for the production reported in section 2.4

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
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	01-OCT-2007 00:03:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-OCT-2007 00:03:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-OCT-2007 00:03:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-OCT-2007 00:03:47
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ECMWF_FILE	AUX_ECF_AXNECM20071002_100134_20071001_030000_20071001_150000	39	01-OCT-2007 04:17:55
OPTIONAL_ECMWF_FILE	MISSING	1	01-OCT-2007 00:03:47
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071001_011402_000041442062_00088_29200_4265.N1	12	01-OCT-2007 01:24:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071001_022826_000057382062_00089_29201_4266.N1	24	01-OCT-2007 02:37:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071001_040923_000057382062_00090_29202_4267.N1	39	01-OCT-2007 04:17:55



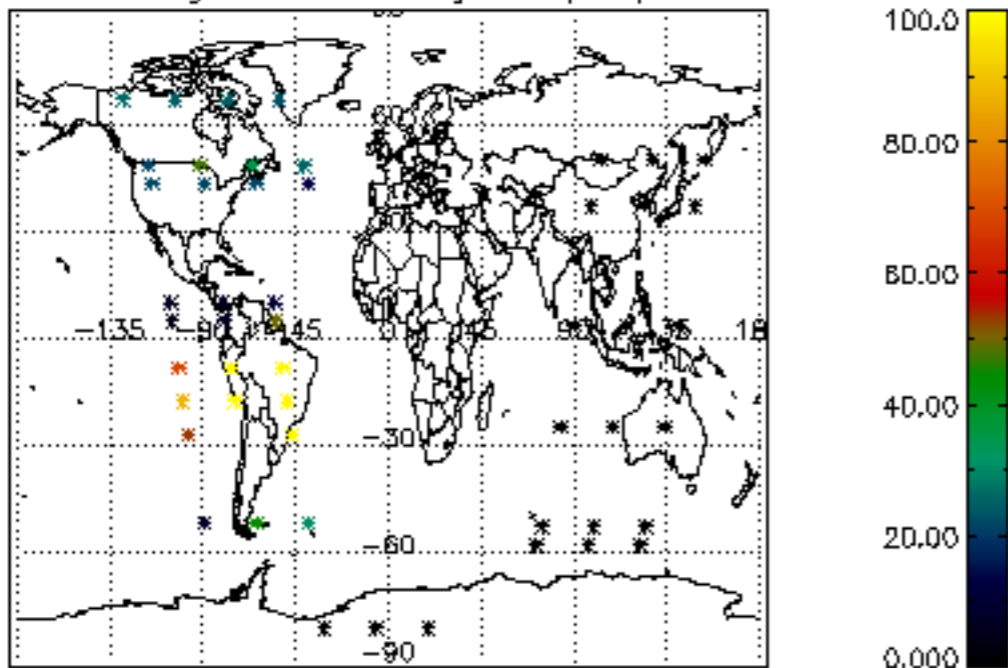




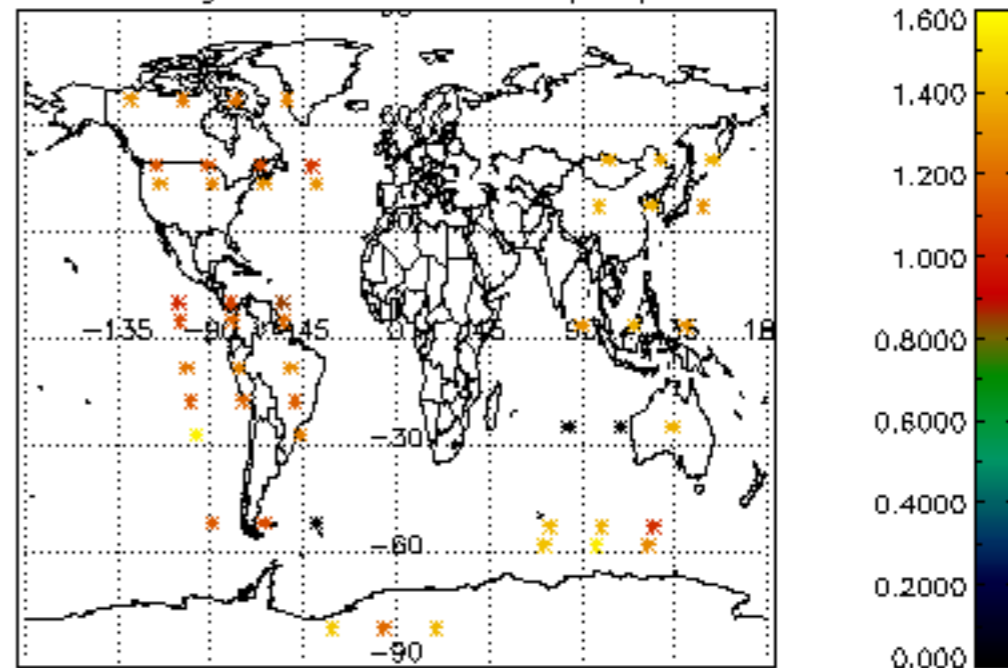




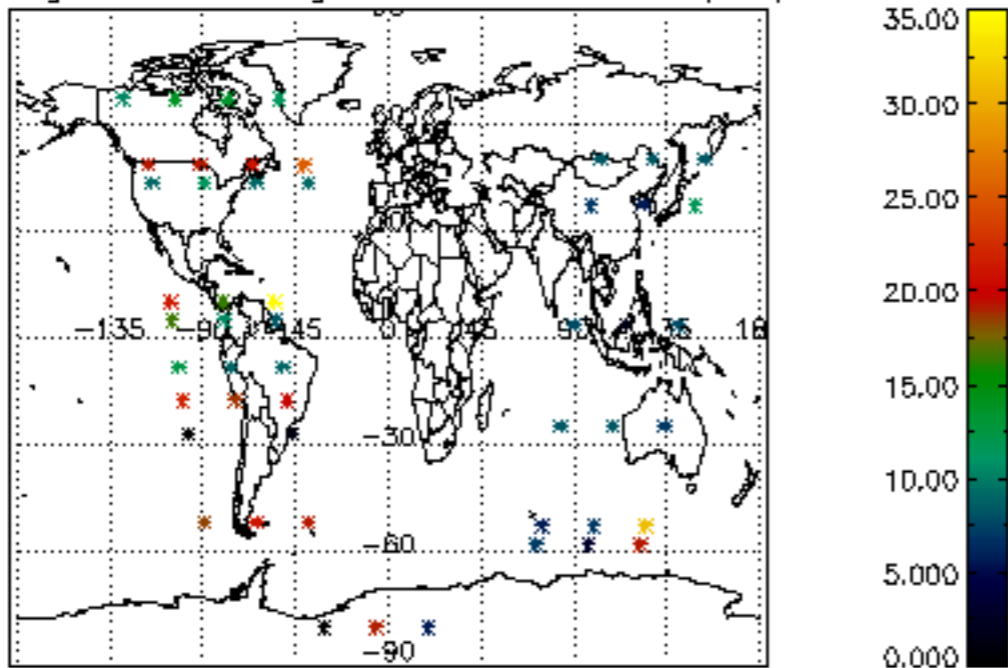
Percentage of cosmic ray hits per profile



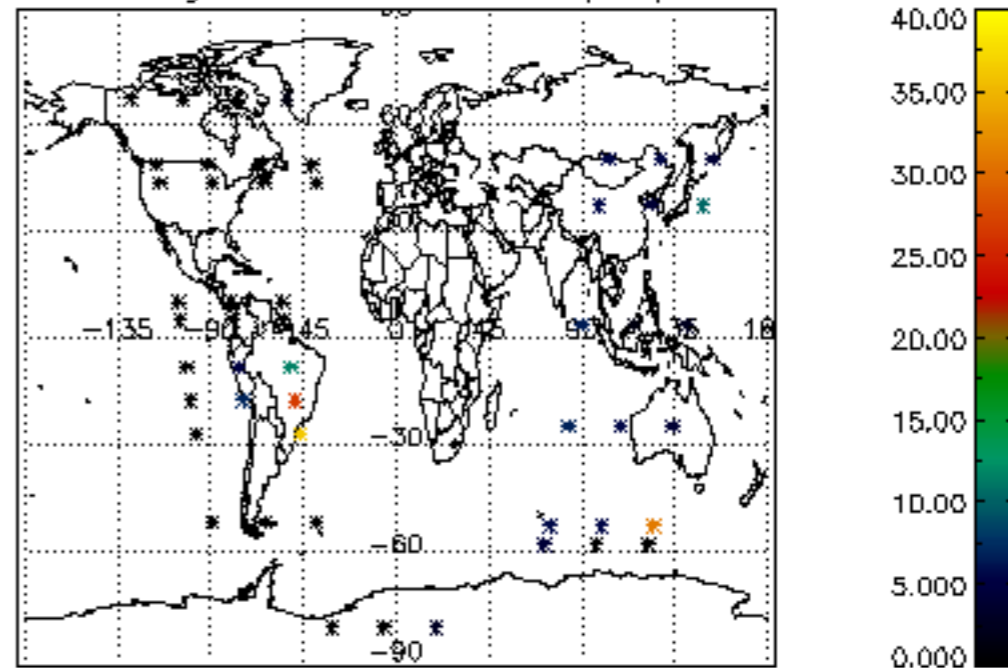
Percentage of datation errors per profile



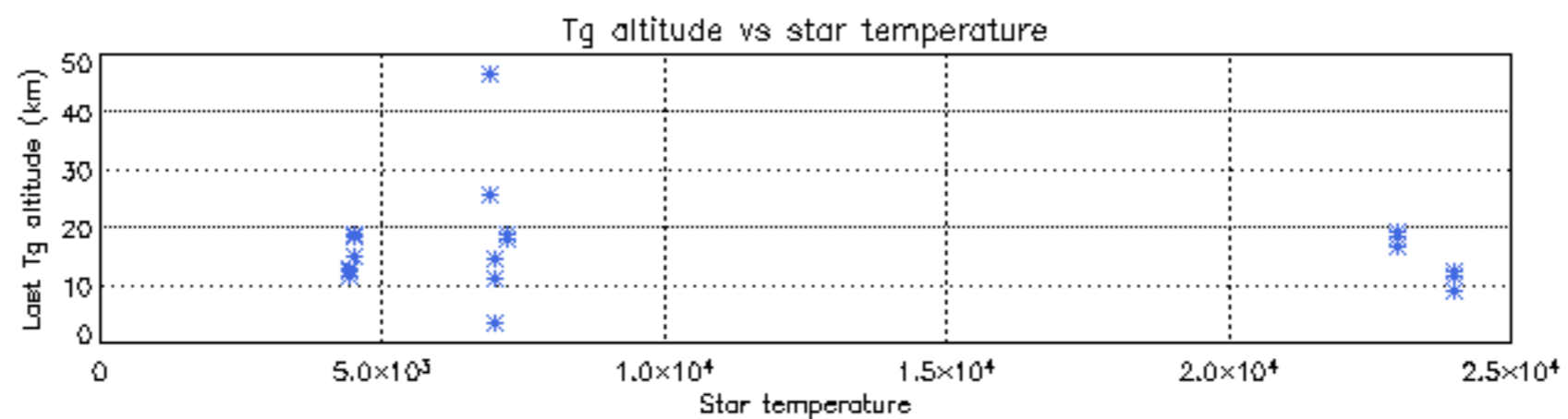
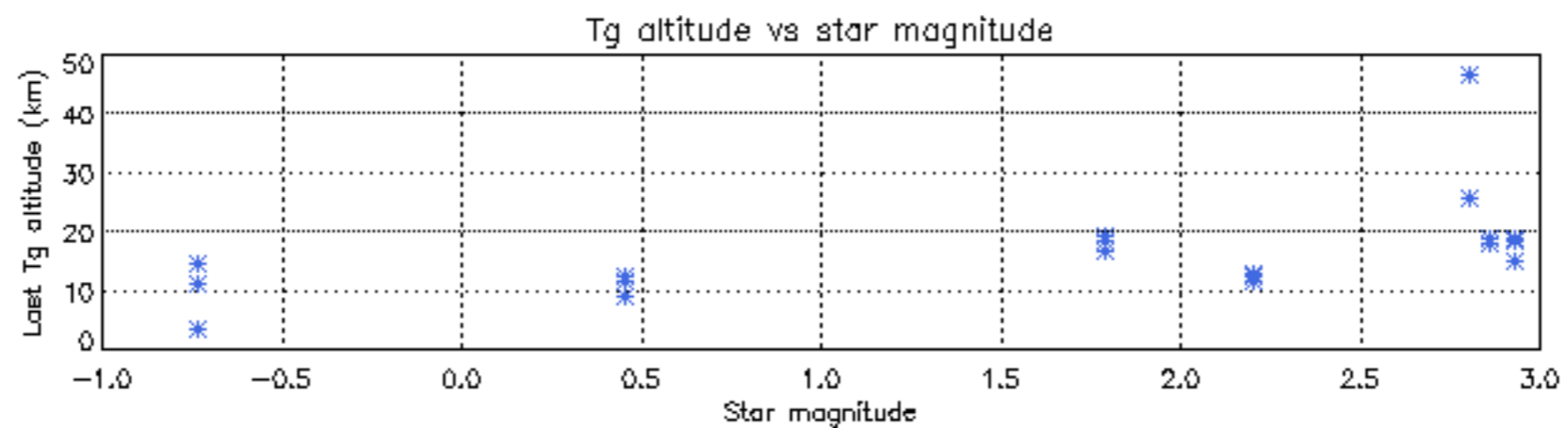
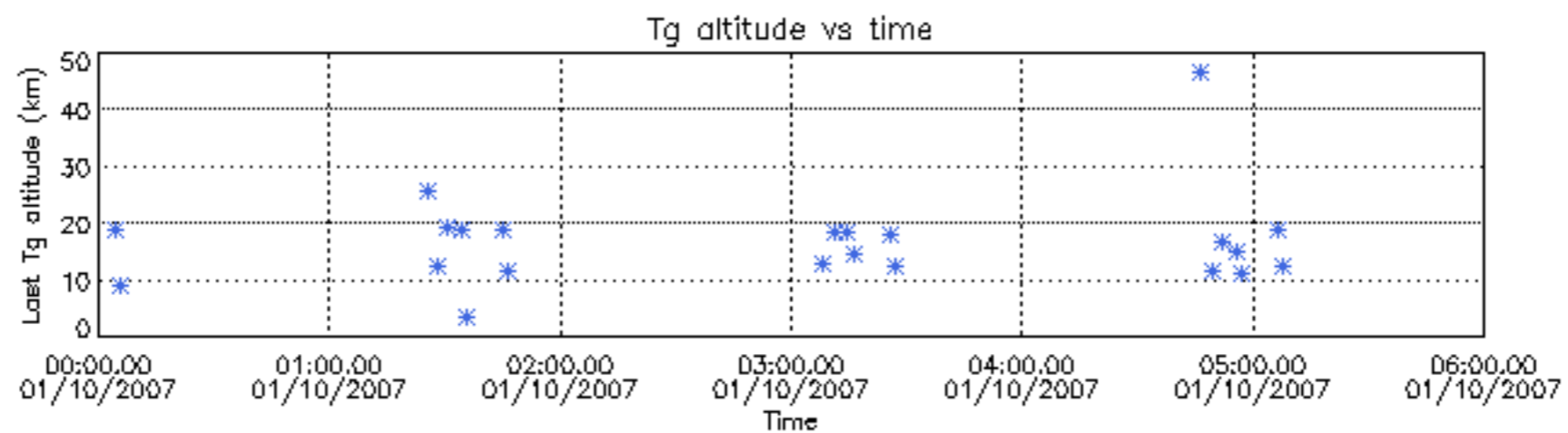
Percentage of star falling outside central band per profile



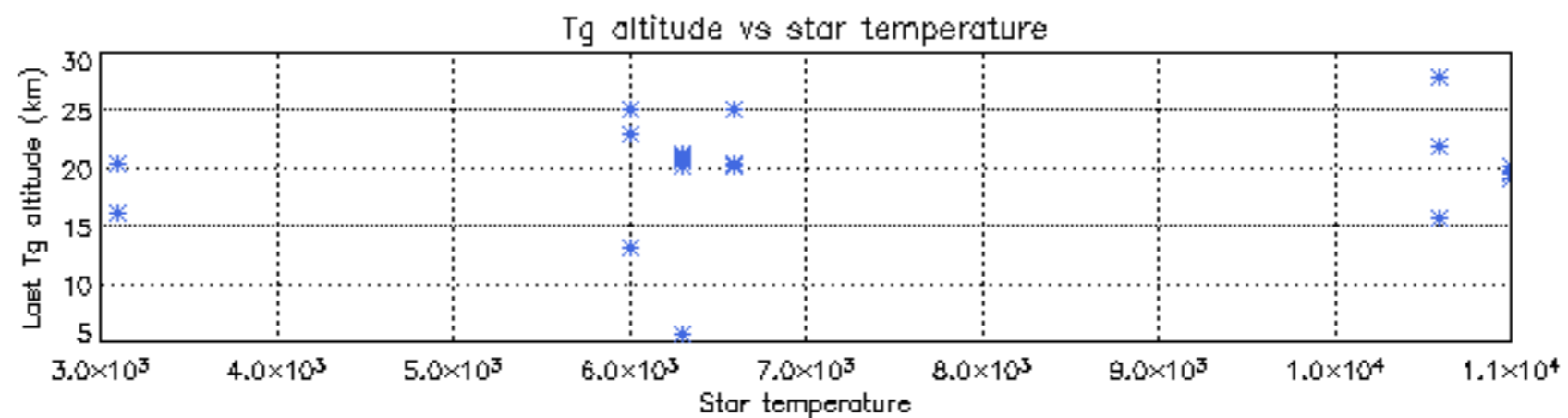
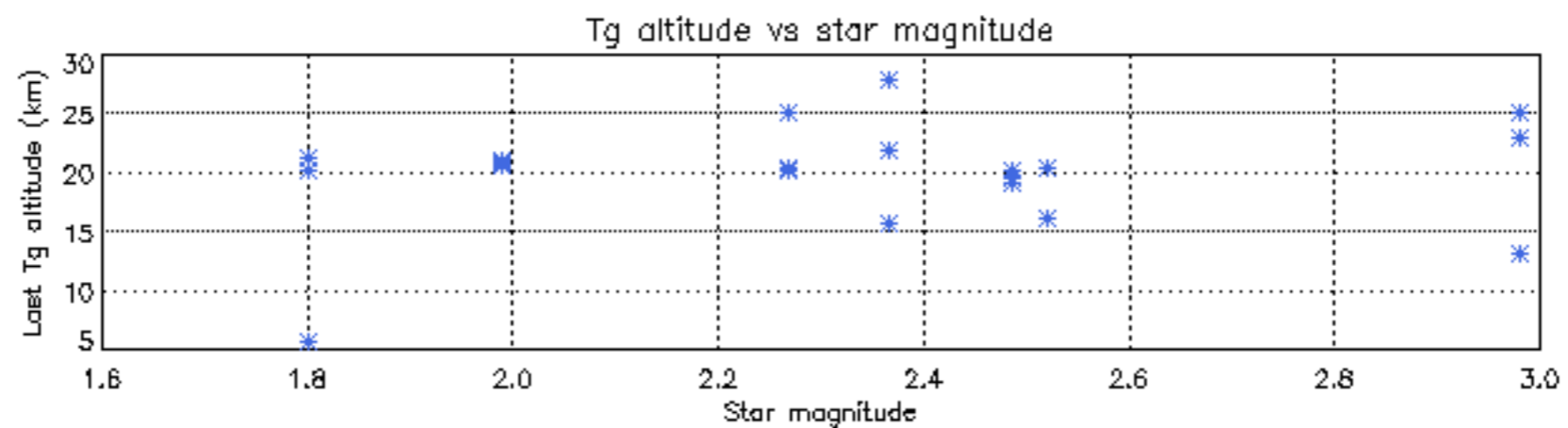
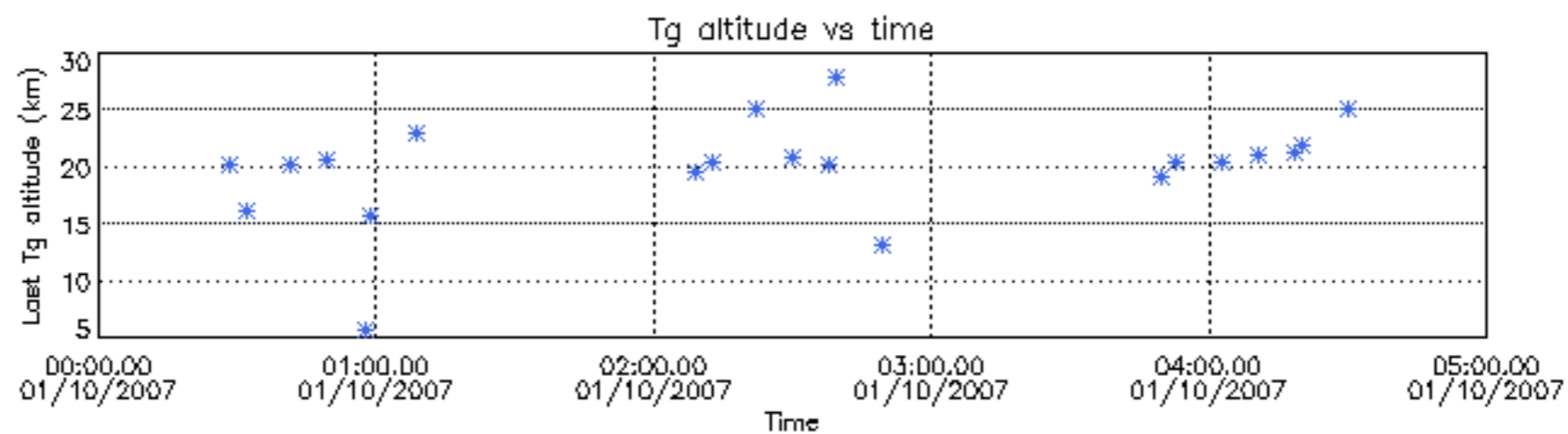
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

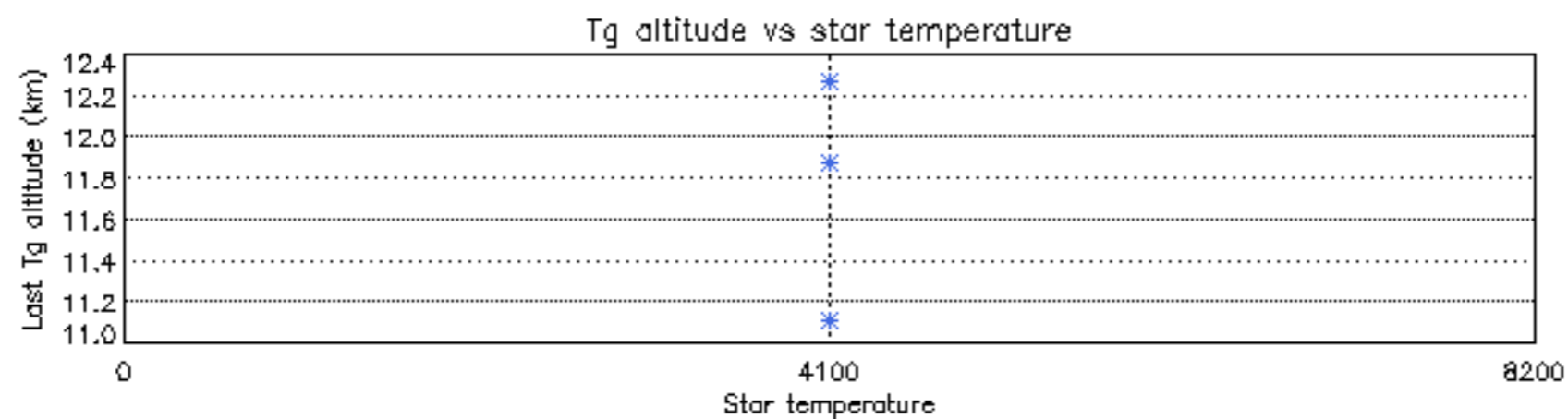
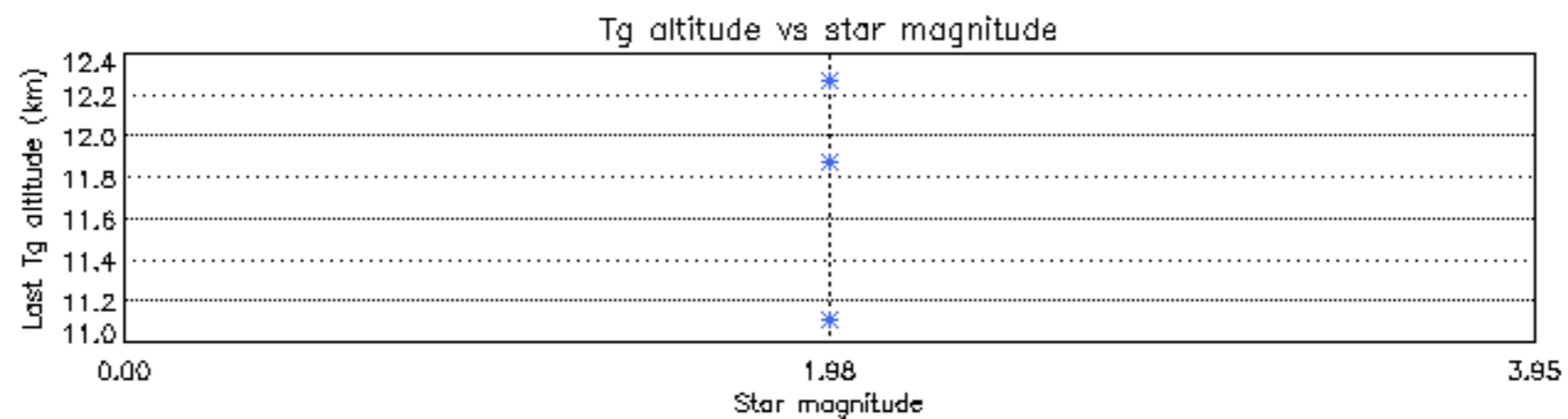
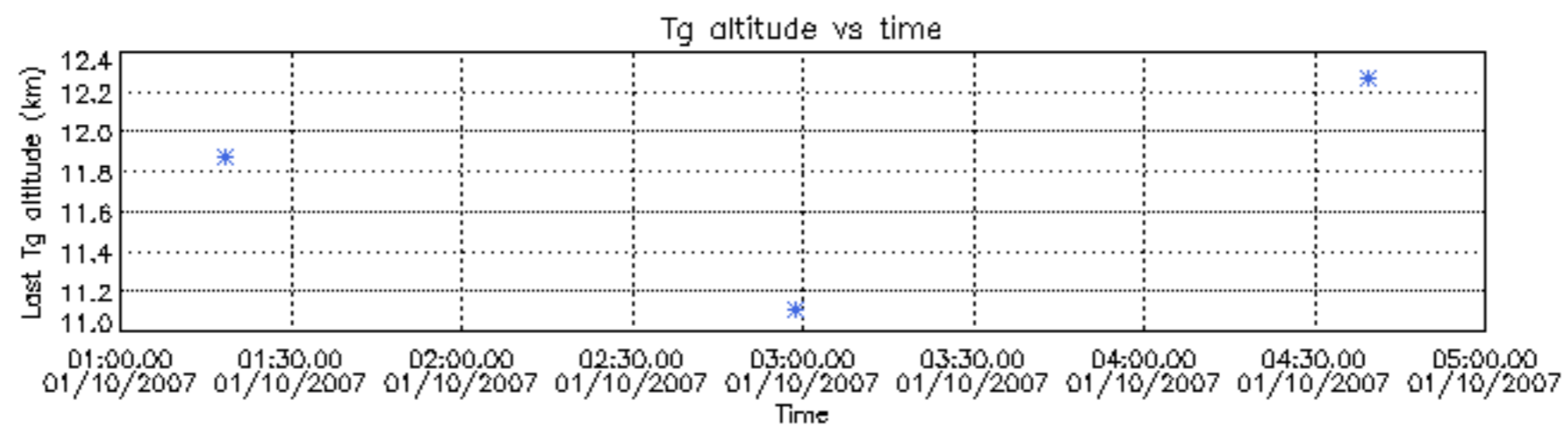


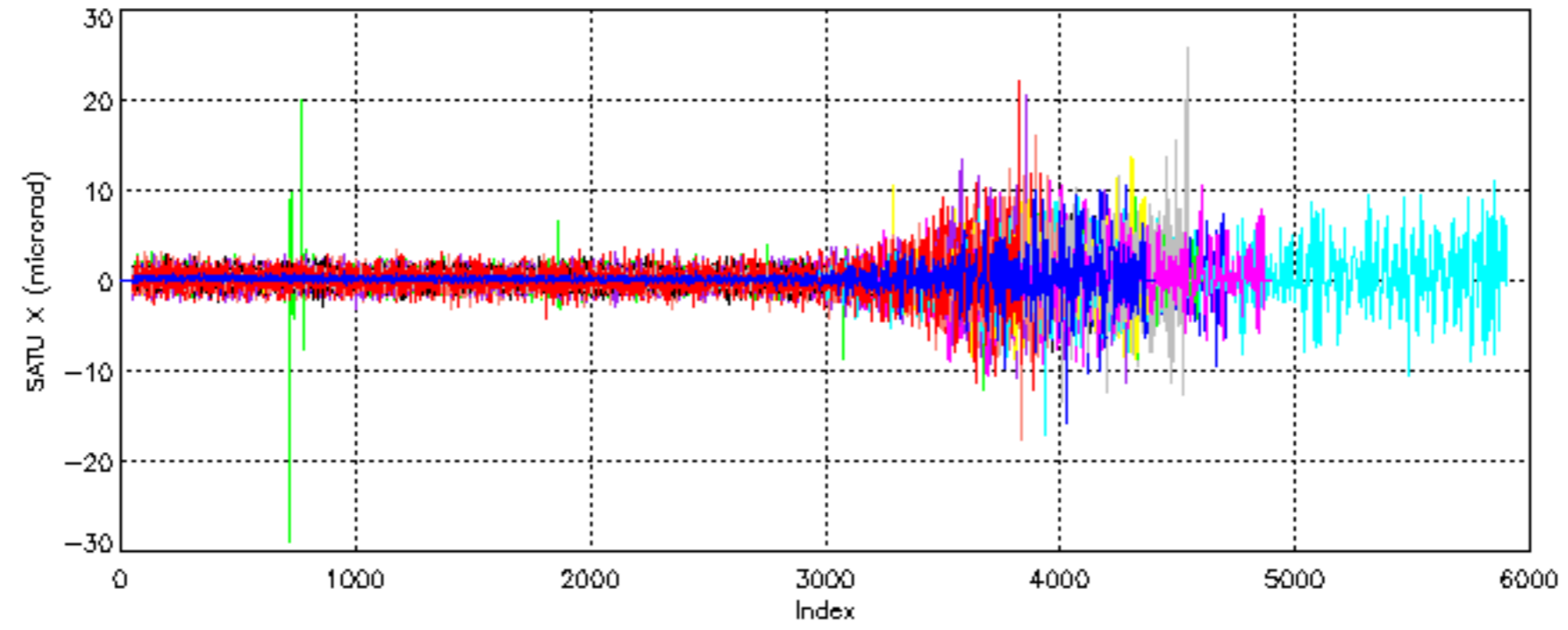
Tangent altitude at which the star is lost

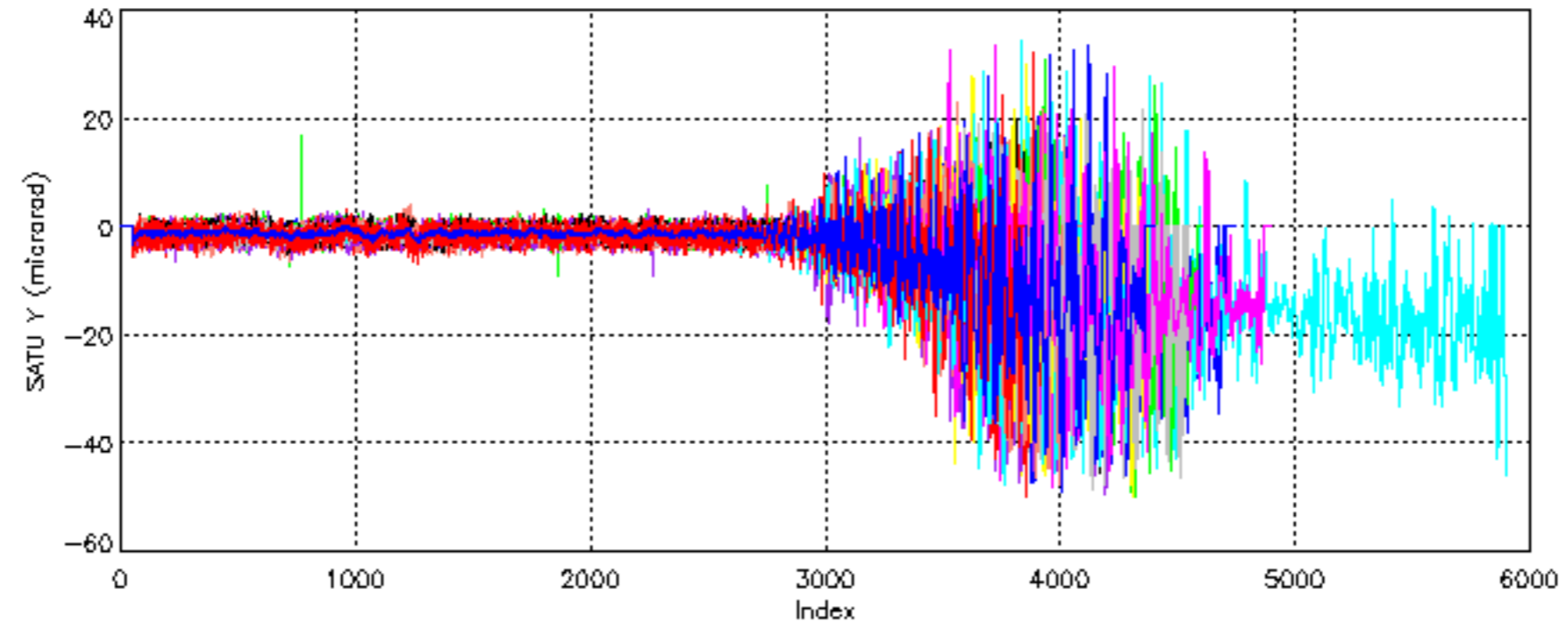


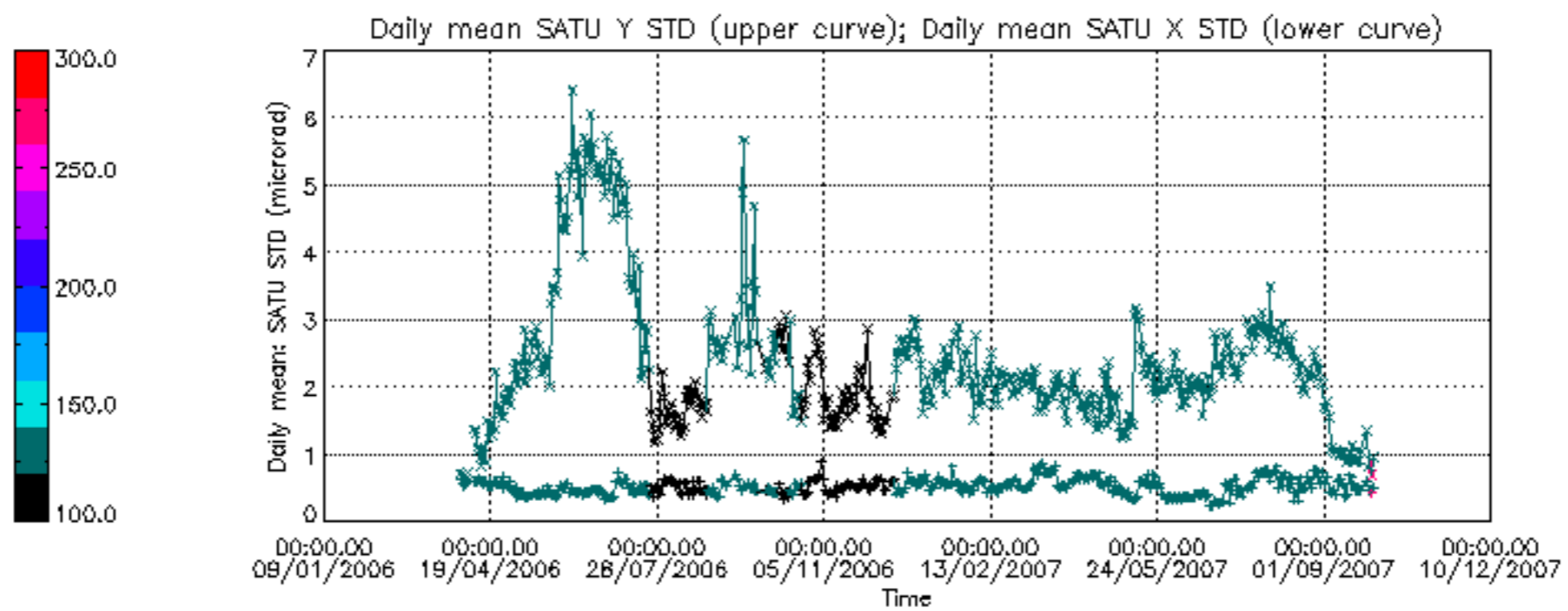


Tangent altitude at which the star is lost









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21; 7196.1; 06-OCT-2007 09:17:05; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29276  
22; 7603.2; 06-OCT-2007 09:23:52; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29276

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2; -260.2; 07-OCT-2007 01:39:24; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29286  
3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286  
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286  
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287  
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287  
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287  
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287  
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287  
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287  
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287  
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287  
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287  
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287  
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287  
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287  
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287  
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287  
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287  
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287  
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287  
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287  
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288  
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288  
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288  
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288  
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288  
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288  
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288  
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288  
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288  
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288  
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288  
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288  
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288  
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288  
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288  
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288  
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288  
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289  
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289  
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
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 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289  
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289  
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289  
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300  
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300  
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300  
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300  
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300  
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300  
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300  
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300  
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300  
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300  
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300  
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 3; -1834.6; 07-OCT-2007 06:14:57; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29289  
 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289  
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 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289  
 8; -64.0; 07-OCT-2007 06:44:28; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29289  
 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290  
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290  
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290  
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290  
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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290  
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290  
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290  
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 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290  
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 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290  
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290  
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
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6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
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16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
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19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
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3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
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16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29292
19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
20; 6887.2; 07-OCT-2007 12:01:31; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29292
21; 7200.1; 07-OCT-2007 12:06:44; Dark ; 37.0; 84; Alp Phe ; 2.40; 4500;occ; 74; 0;29292
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 9; 4211.0; 12-OCT-2007 13:40:37; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29365  
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 13; 5815.7; 12-OCT-2007 14:07:22; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29365  
 14; 5998.0; 12-OCT-2007 14:10:24; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;29365  
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 16; 6248.7; 12-OCT-2007 14:14:35; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29365  
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 18; 6823.9; 12-OCT-2007 14:24:10; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29365  
 19; 6911.0; 12-OCT-2007 14:25:37; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29365

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 13; 5816.3; 12-OCT-2007 15:47:59; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29366  
 14; 5998.7; 12-OCT-2007 15:51:01; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29366  
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 16; 6249.6; 12-OCT-2007 15:55:12; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29366  
 17; 6332.0; 12-OCT-2007 15:56:34; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29366  
 18; 6824.3; 12-OCT-2007 16:04:47; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29366  
 19; 6911.3; 12-OCT-2007 16:06:14; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;29366

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17; 6332.8; 12-OCT-2007 17:37:11; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29367
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6; 3426.5; 12-OCT-2007 18:29:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29368
7; 3918.0; 12-OCT-2007 18:37:32; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29368
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9; 4211.2; 12-OCT-2007 18:42:25; Bright; 41.5; 174; 52Psi UMA ; 3.00; 4400;occ; 83; 0;29368
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5; 2979.4; 12-OCT-2007 20:02:30; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29369
6; 3426.5; 12-OCT-2007 20:09:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29369
7; 3918.1; 12-OCT-2007 20:18:08; Bright; 33.5; 36; 50Alp UMA ; 1.80; 6300;occ; 67; 0;29369
8; 4010.7; 12-OCT-2007 20:19:41; Bright; 39.5; 82; 48Bet UMA ; 2.37; 10600;occ; 79; 0;29369
9; 4211.3; 12-OCT-2007 20:23:02; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29369
10; 4622.3; 12-OCT-2007 20:29:53; Bright; 59.0; 166; 17Eps Leo ; 2.98; 6000;occ; 118; 0;29369
11; 4814.3; 12-OCT-2007 20:33:05; Bright; 56.0; 22; 32Alp Leo ; 1.36; 15200;occ; 112; 0;29369
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13; 5817.8; 12-OCT-2007 20:49:48; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29369
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4; 217.7; 13-OCT-2007 00:18:16; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29372
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6; 789.7; 13-OCT-2007 00:27:48; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;29372
7; 876.7; 13-OCT-2007 00:29:15; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;29372
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13; 3426.4; 13-OCT-2007 01:11:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29372
14; 3918.1; 13-OCT-2007 01:19:56; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;29372

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13; 2978.4; 13-OCT-2007 02:44:52; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29373
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 17; 6197.4; 21-OCT-2007 12:50:22; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29493  
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 21; 7116.5; 21-OCT-2007 13:05:42; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;29493

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 7; 3425.2; 21-OCT-2007 13:44:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29494  
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 16; 6096.8; 21-OCT-2007 14:29:18; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;29494  
 17; 6197.7; 21-OCT-2007 14:30:59; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;29494  
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 21; 7117.0; 21-OCT-2007 14:46:18; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29494

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 16; 6097.7; 21-OCT-2007 16:09:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;29495  
 17; 6198.1; 21-OCT-2007 16:11:35; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;29495  
 18; 6436.8; 21-OCT-2007 16:15:34; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29495  
 19; 6861.3; 21-OCT-2007 16:22:38; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29495  
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 21; 7117.7; 21-OCT-2007 16:26:54; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29495

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4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496  
5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496  
6; 2953.4; 21-OCT-2007 16:58:06; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29496  
7; 3425.3; 21-OCT-2007 17:05:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29496  
8; 3623.5; 21-OCT-2007 17:09:16; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29496  
9; 3920.1; 21-OCT-2007 17:14:13; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29496  
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11; 4223.1; 21-OCT-2007 17:19:16; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29496  
12; 4697.3; 21-OCT-2007 17:27:10; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;29496  
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16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496  
17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496  
18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496  
19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496  
20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497  
5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497  
7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497  
9; 3425.1; 21-OCT-2007 18:46:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29497  
10; 3623.7; 21-OCT-2007 18:49:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29497  
11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497  
12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497  
13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497  
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17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497  
18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497  
19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497  
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5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499  
6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499  
7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499  
8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499  
9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499  
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16; 3425.0; 21-OCT-2007 22:07:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29499  
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13; 2532.9; 21-OCT-2007 23:33:29; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29500
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7; 1083.9; 22-OCT-2007 02:30:32; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29502
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9; 3919.8; 22-OCT-2007 13:21:24; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29508
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11; 4224.0; 22-OCT-2007 13:26:28; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29508
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16; 6082.7; 22-OCT-2007 13:57:27; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29508
17; 6201.7; 22-OCT-2007 13:59:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29508
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12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
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14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509
16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515  
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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516  
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9; 61.7; 24-OCT-2007 07:52:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29534
10; 172.9; 24-OCT-2007 07:54:31; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29534
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 9; 4014.2; 24-OCT-2007 12:19:44; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29536  
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