

# GOMOS Daily Report 02-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	04OCT2007 07:24:29
Data source version	GOMOS/5.00
Start time of products	02-10-2007 (02OCT2007 00:00:00)
Stop time of products	03-10-2007 (03OCT2007 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)

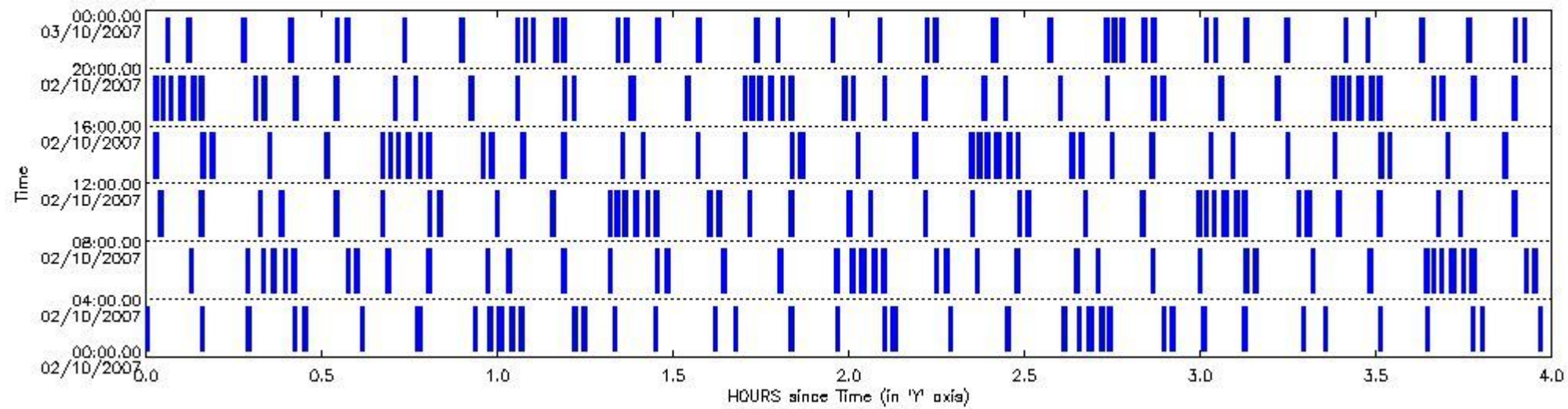
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

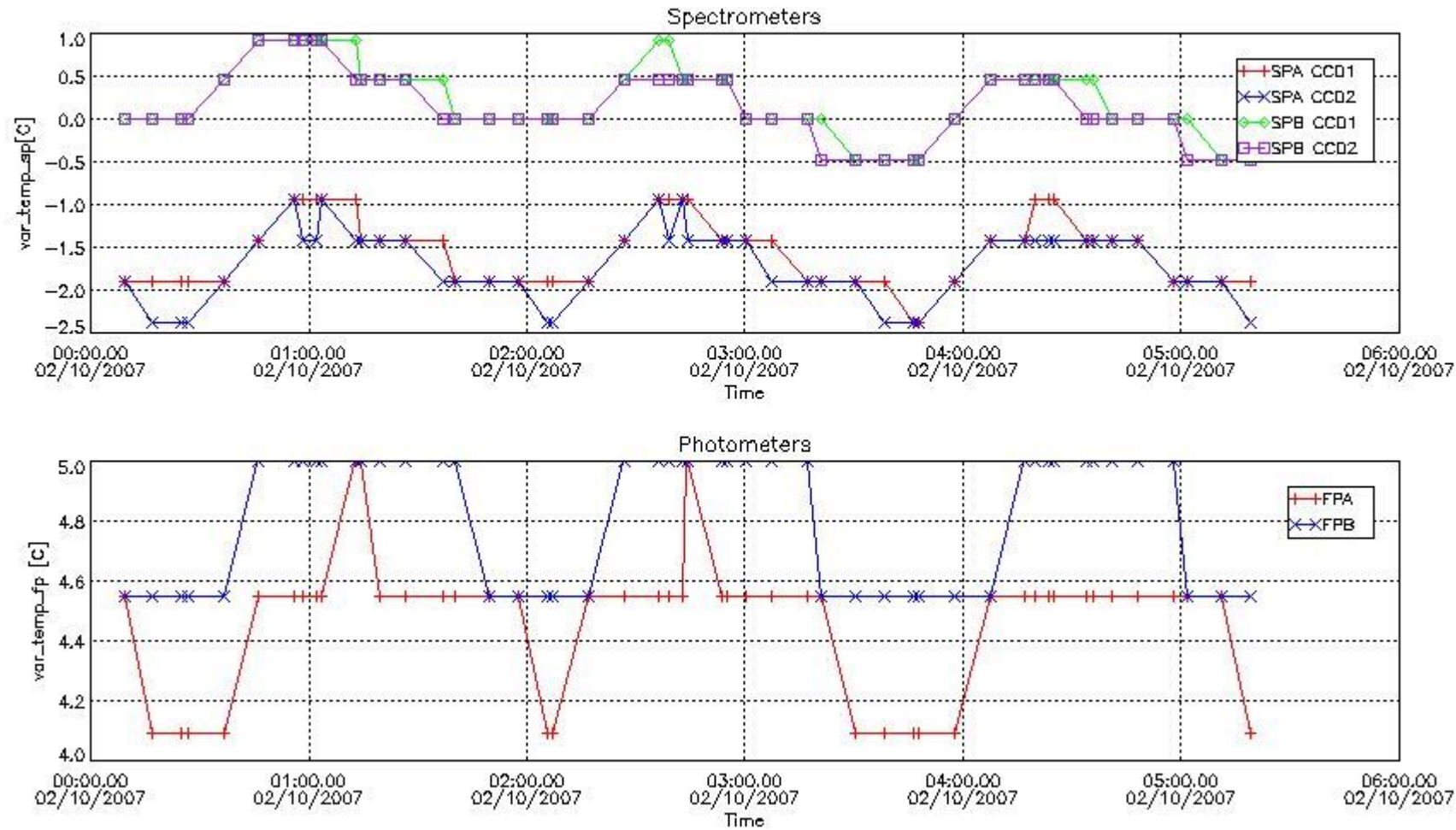
No missing products.

### 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_1PNPDE20071002_000910_000000392062_00102_29214_6533.N1	02-OCT-2007 00:09:10	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	29214	No
2	GOM_TRA_1PNPDE20071002_001709_000000342062_00102_29214_6534.N1	02-OCT-2007 00:17:09	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29214	No
3	GOM_TRA_1PNPDE20071002_002507_000000362062_00102_29214_6535.N1	02-OCT-2007 00:25:07	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29214	No
4	GOM_TRA_1PNPDE20071002_002638_000000482062_00102_29214_6536.N1	02-OCT-2007 00:26:38	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	29214	No
5	GOM_TRA_1PNPDE20071002_003630_000000432062_00102_29214_6537.N1	02-OCT-2007 00:36:30	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	29214	No
6	GOM_TRA_1PNPDE20071002_004605_000000522062_00102_29214_6538.N1	02-OCT-2007 00:46:05	Twilight	52.000	48	30Alp Hya	1.9770	4100.0	104	29214	No
7	GOM_TRA_1PNPDE20071002_005546_000000412062_00102_29214_7655.N1	02-OCT-2007 00:55:46	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	29214	No
8	GOM_TRA_1PNPDE20071002_005823_000000442062_00102_29214_7656.N1	02-OCT-2007 00:58:23	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	29214	No
9	GOM_TRA_1PNPDE20071002_010209_000000442062_00103_29215_7657.N1	02-OCT-2007 01:02:09	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29215	No
10	GOM_TRA_1PNPDE20071002_010334_000000462062_00103_29215_7658.N1	02-OCT-2007 01:03:34	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	29215	No
11	GOM_TRA_1PNPDE20071002_011252_000000382062_00103_29215_7659.N1	02-OCT-2007 01:12:52	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29215	No
12	GOM_TRA_1PNPDE20071002_011420_000000442062_00103_29215_7660.N1	02-OCT-2007 01:14:20	Dark	44.000	9	Alp Eri	0.45300	24000.	88	29215	No

13	GOM_TRA_1PNPDE20071002_011940_000000402062_00103_29215_7661.N1	02-OCT-2007 01:19:40	Straylight	39.500	84	Alp Phe	2.3970	4500.0	79	29215	No
14	GOM_TRA_1PNPDE20071002_012635_000000402062_00103_29215_7662.N1	02-OCT-2007 01:26:35	Straylight	40.000	52	16Bet Cet	2.0370	4500.0	80	29215	No
15	GOM_TRA_1PNPDE20071002_013645_000000372062_00103_29215_7663.N1	02-OCT-2007 01:36:45	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29215	No
16	GOM_TRA_1PNPDE20071002_014023_000000382062_00103_29215_7664.N1	02-OCT-2007 01:40:23	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29215	No
17	GOM_TRA_1PNPDE20071002_014946_000000392062_00103_29215_7665.N1	02-OCT-2007 01:49:46	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	29215	No
18	GOM_TRA_1PNPDE20071002_015745_000000362062_00103_29215_7666.N1	02-OCT-2007 01:57:45	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29215	No
19	GOM_TRA_1PNPDE20071002_020543_000000362062_00103_29215_7667.N1	02-OCT-2007 02:05:43	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29215	No
20	GOM_TRA_1PNPDE20071002_020713_000000522062_00103_29215_7668.N1	02-OCT-2007 02:07:13	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29215	No
21	GOM_TRA_1PNPDE20071002_021706_000000352062_00103_29215_7669.N1	02-OCT-2007 02:17:06	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	29215	No
22	GOM_TRA_1PNPDE20071002_022642_000000442062_00103_29215_7660.N1	02-OCT-2007 02:26:42	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	29215	No
23	GOM_TRA_1PNPDE20071002_023622_000000422062_00103_29215_7661.N1	02-OCT-2007 02:36:22	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29215	No
24	GOM_TRA_1PNPDE20071002_023859_000000422062_00103_29215_7662.N1	02-OCT-2007 02:38:59	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	29215	No
25	GOM_TRA_1PNPDE20071002_024246_000000422062_00104_29216_7663.N1	02-OCT-2007 02:42:46	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	29216	No
26	GOM_TRA_1PNPDE20071002_024410_000000452062_00104_29216_7664.N1	02-OCT-2007 02:44:10	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	29216	No
27	GOM_TRA_1PNPDE20071002_025328_000000392062_00104_29216_7665.N1	02-OCT-2007 02:53:28	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29216	No
28	GOM_TRA_1PNPDE20071002_025456_000000422062_00104_29216_7666.N1	02-OCT-2007 02:54:56	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29216	No
29	GOM_TRA_1PNPDE20071002_030017_000000412062_00104_29216_7667.N1	02-OCT-2007 03:00:17	Straylight	41.000	84	Alp Phe	2.3970	4500.0	82	29216	No
30	GOM_TRA_1PNPDE20071002_030712_000000462062_00104_29216_7668.N1	02-OCT-2007 03:07:12	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	29216	No
31	GOM_TRA_1PNPDE20071002_031721_000000362062_00104_29216_7669.N1	02-OCT-2007 03:17:21	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29216	No
32	GOM_TRA_1PNPDE20071002_032059_000000362062_00104_29216_7670.N1	02-OCT-2007 03:20:59	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	29216	No
33	GOM_TRA_1PNPDE20071002_033022_000000362062_00104_29216_7671.N1	02-OCT-2007 03:30:22	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	29216	No
34	GOM_TRA_1PNPDE20071002_033821_000000362062_00104_29216_7672.N1	02-OCT-2007 03:38:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29216	No
35	GOM_TRA_1PNPDE20071002_034619_000000352062_00104_29216_7767.N1	02-OCT-2007 03:46:19	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	29216	No
36	GOM_TRA_1PNPDE20071002_034750_000000332062_00104_29216_7768.N1	02-OCT-2007 03:47:50	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	29216	No
37	GOM_TRA_1PNPDE20071002_035742_000000352062_00104_29216_7769.N1	02-OCT-2007 03:57:42	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	29216	No
38	GOM_TRA_1PNPDE20071002_040718_000000462062_00104_29216_7770.N1	02-OCT-2007 04:07:18	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	29216	No
39	GOM_TRA_1PNPDE20071002_041658_000000432062_00104_29216_7771.N1	02-OCT-2007 04:16:58	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29216	No
40	GOM_TRA_1PNPDE20071002_041936_000000452062_00104_29216_7772.N1	02-OCT-2007 04:19:36	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	29216	No
41	GOM_TRA_1PNPDE20071002_042323_000000442062_00105_29217_7773.N1	02-OCT-2007 04:23:23	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29217	No
42	GOM_TRA_1PNPDE20071002_042447_000000532062_00105_29217_7774.N1	02-OCT-2007 04:24:47	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	29217	No
43	GOM_TRA_1PNPDE20071002_043405_000000392062_00105_29217_7775.N1	02-OCT-2007 04:34:05	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29217	No
44	GOM_TRA_1PNPDE20071002_043532_000000522062_00105_29217_7776.N1	02-OCT-2007 04:35:32	Dark	51.500	9	Alp Eri	0.45300	24000.	103	29217	No
45	GOM_TRA_1PNPDE20071002_044053_000000432062_00105_29217_7777.N1	02-OCT-2007 04:40:53	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	29217	No
46	GOM_TRA_1PNPDE20071002_044748_000000482062_00105_29217_7778.N1	02-OCT-2007 04:47:48	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	29217	No
47	GOM_TRA_1PNPDE20071002_045757_000000372062_00105_29217_7779.N1	02-OCT-2007 04:57:57	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29217	No
48	GOM_TRA_1PNPDE20071002_050135_000000362062_00105_29217_7780.N1	02-OCT-2007 05:01:35	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	29217	No
49	GOM_TRA_1PNPDE20071002_051058_000000382062_00105_29217_7781.N1	02-OCT-2007 05:10:58	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	29217	No
50	GOM_TRA_1PNPDE20071002_051857_000000322062_00105_29217_7782.N1	02-OCT-2007 05:18:57	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29217	No

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



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

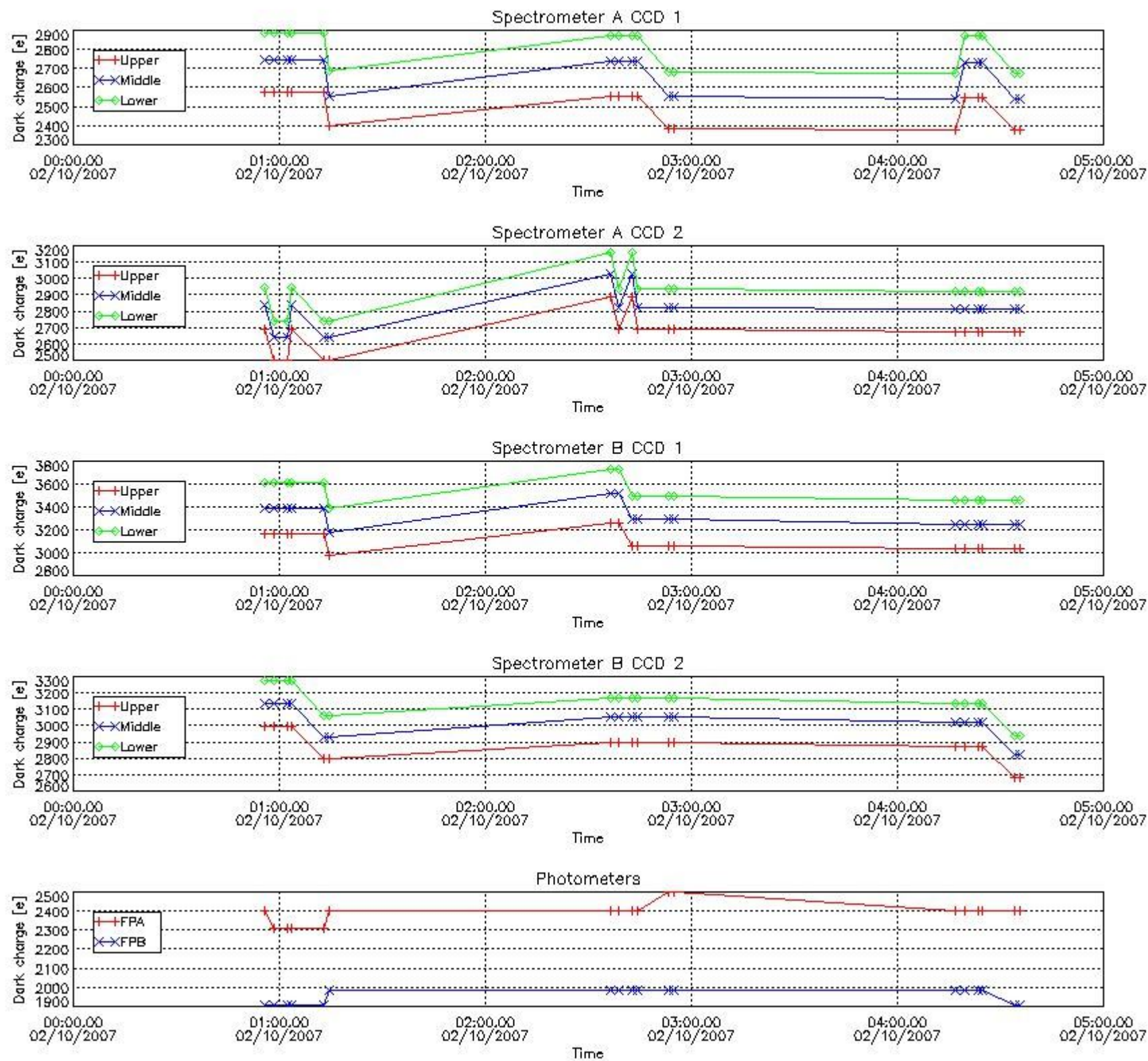
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 All products used the DSA observation for the DC computation

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





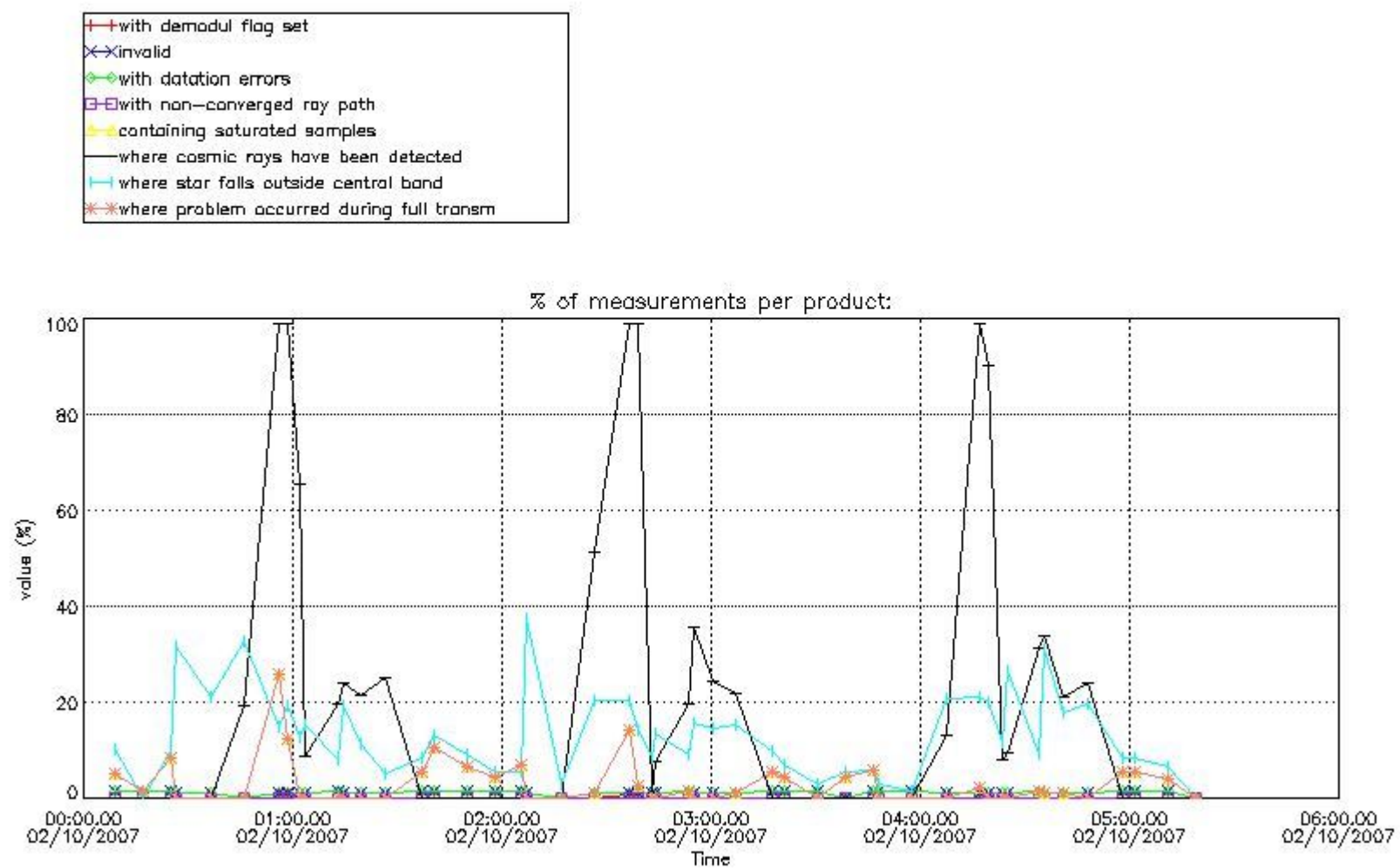
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

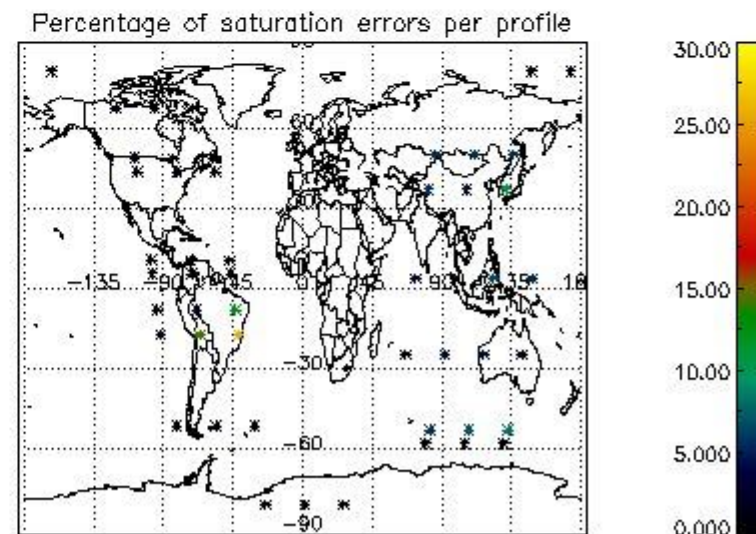
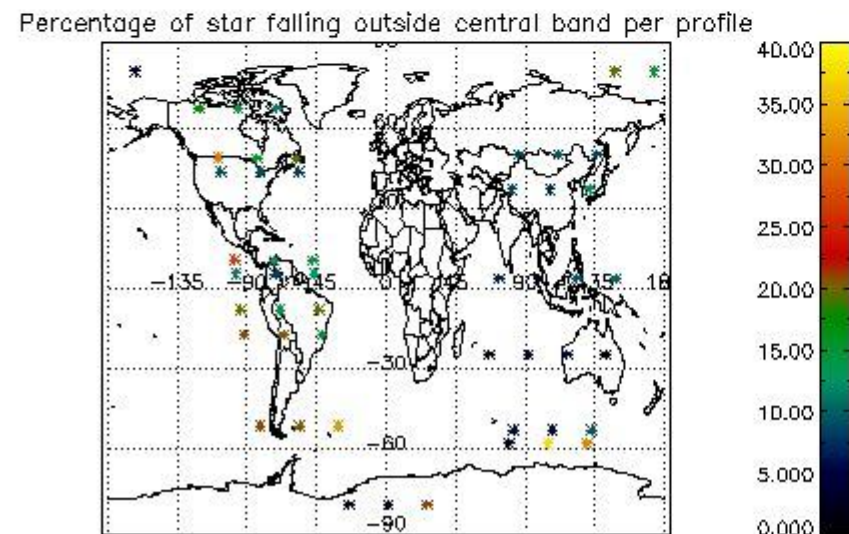
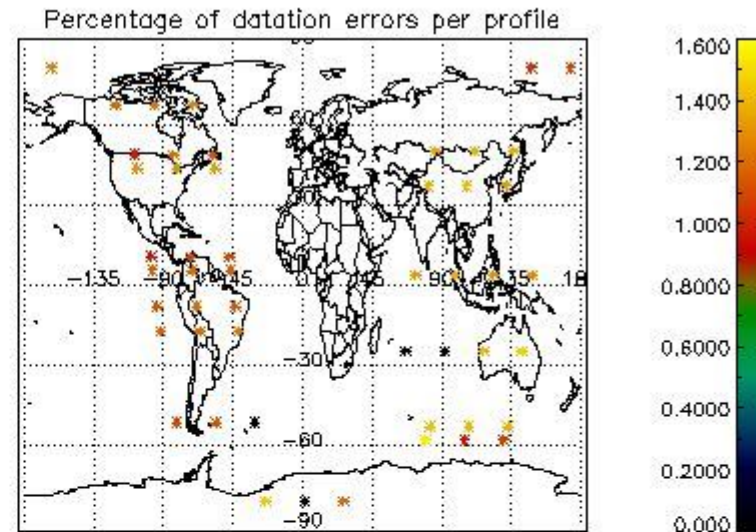
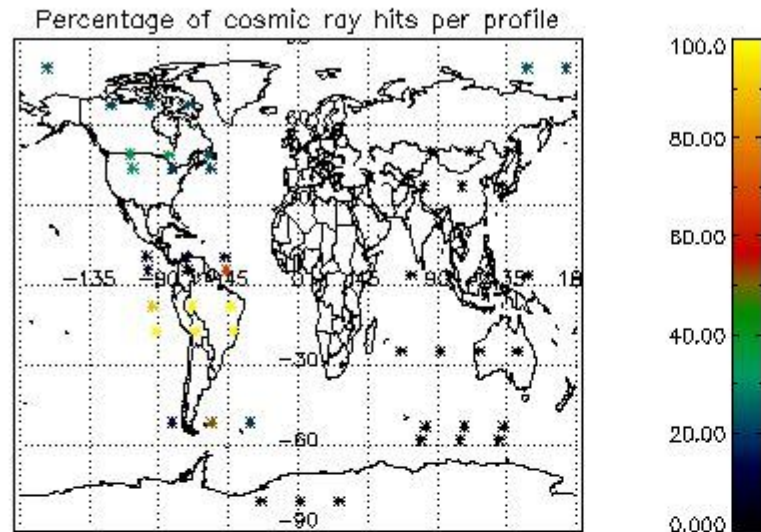
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





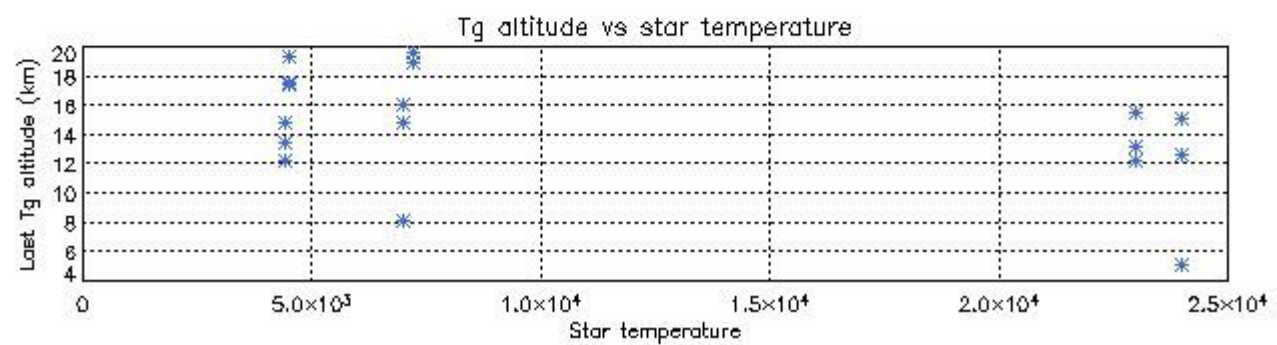
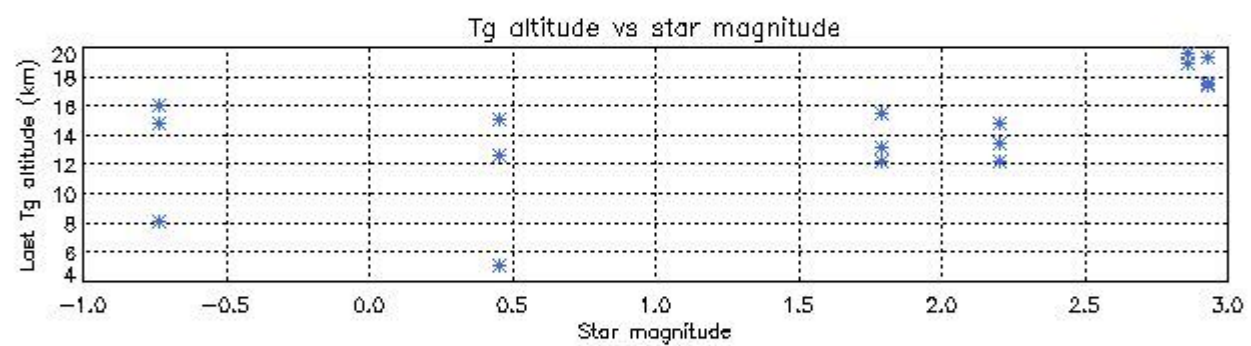
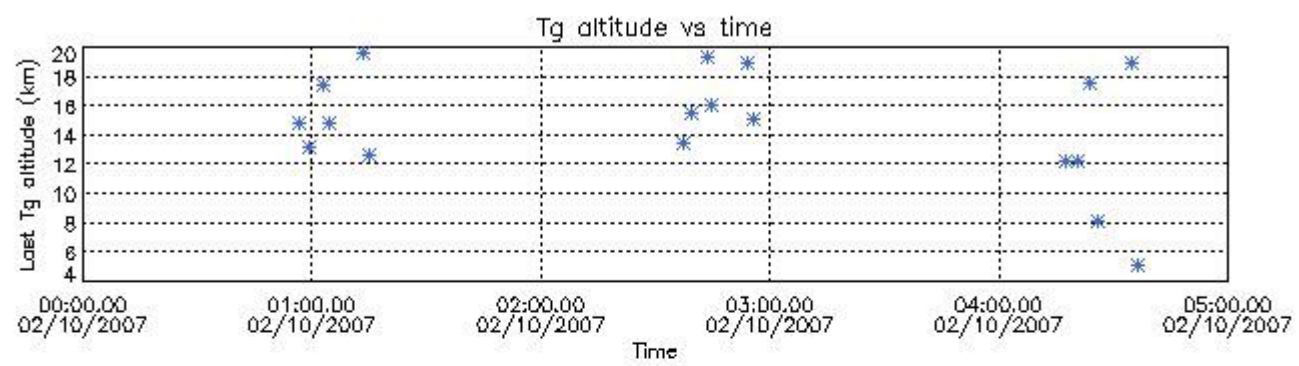
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.710	20.214	9.4734
St. deviation:	3.8886	6.1965	3.4448
Maximum:	19.656	31.879	11.969
Minimum:	5.0833	3.2859	5.5431
Number of data:	18.000	23.000	3.0000

### 6.2 Plot for DARK limb products

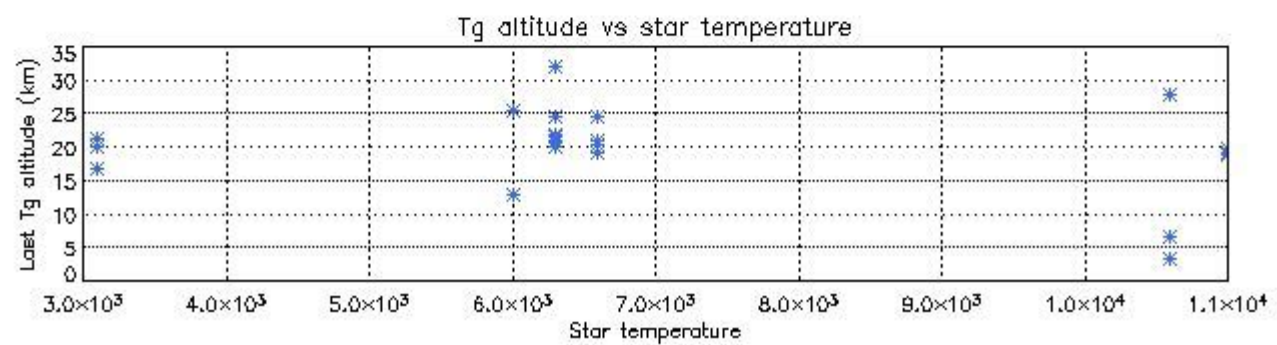
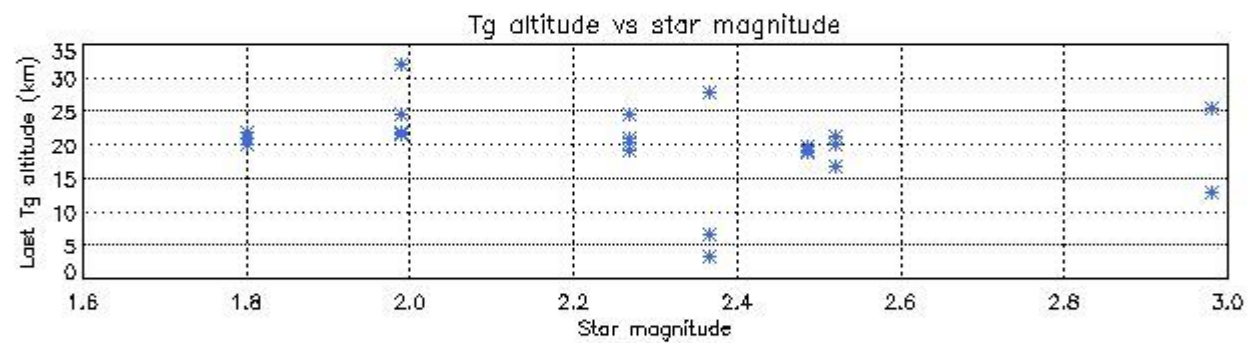
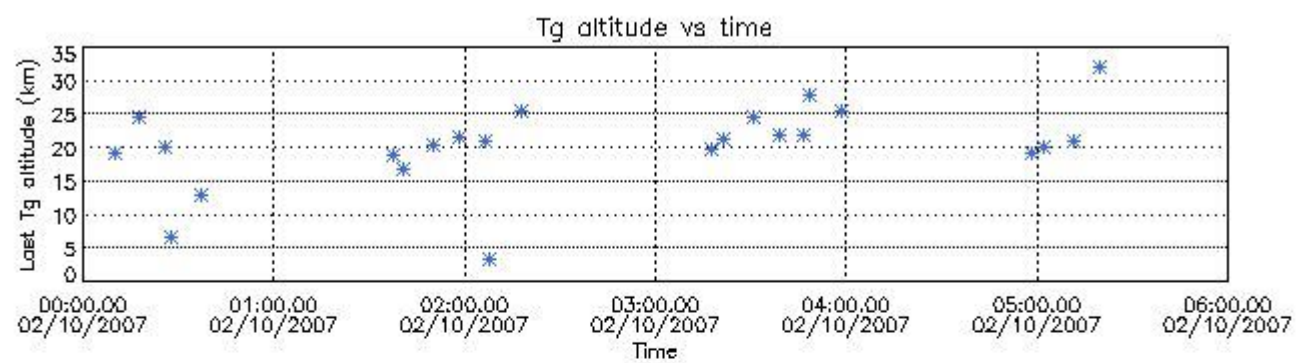
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

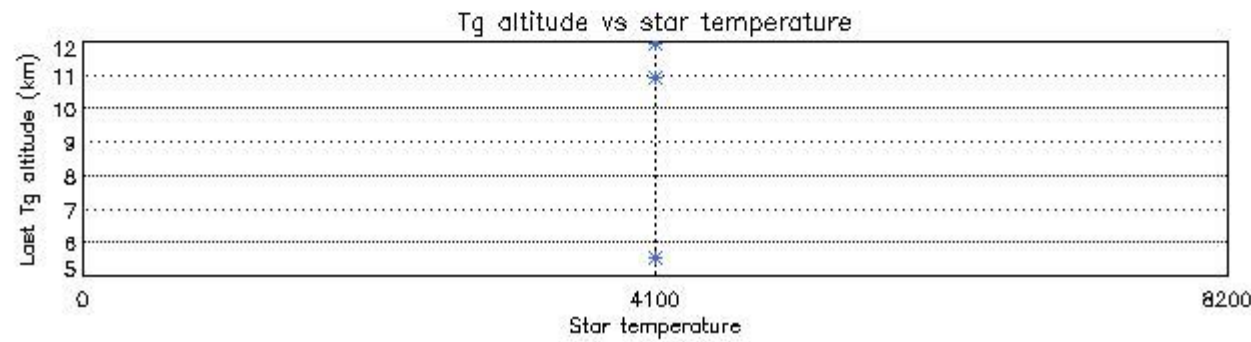
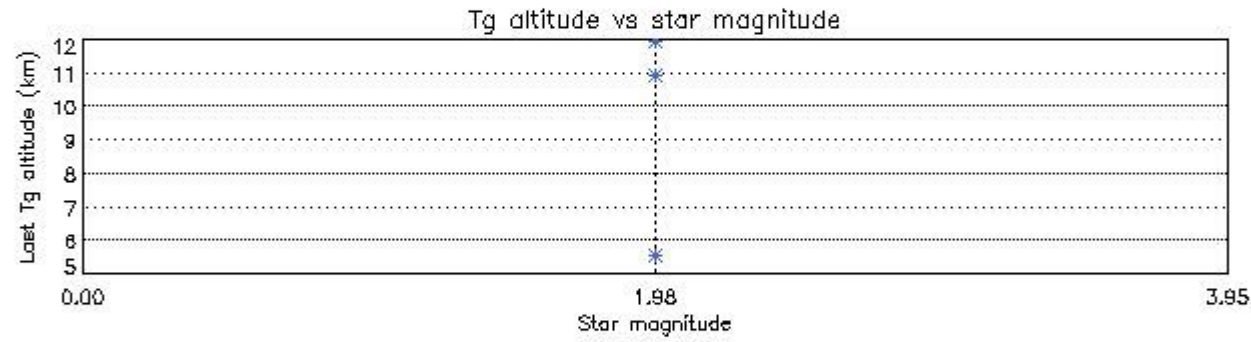
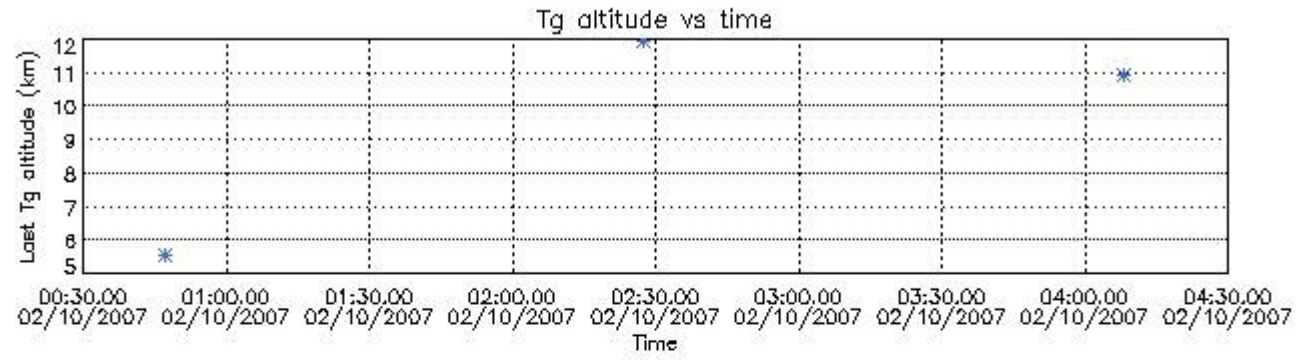


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

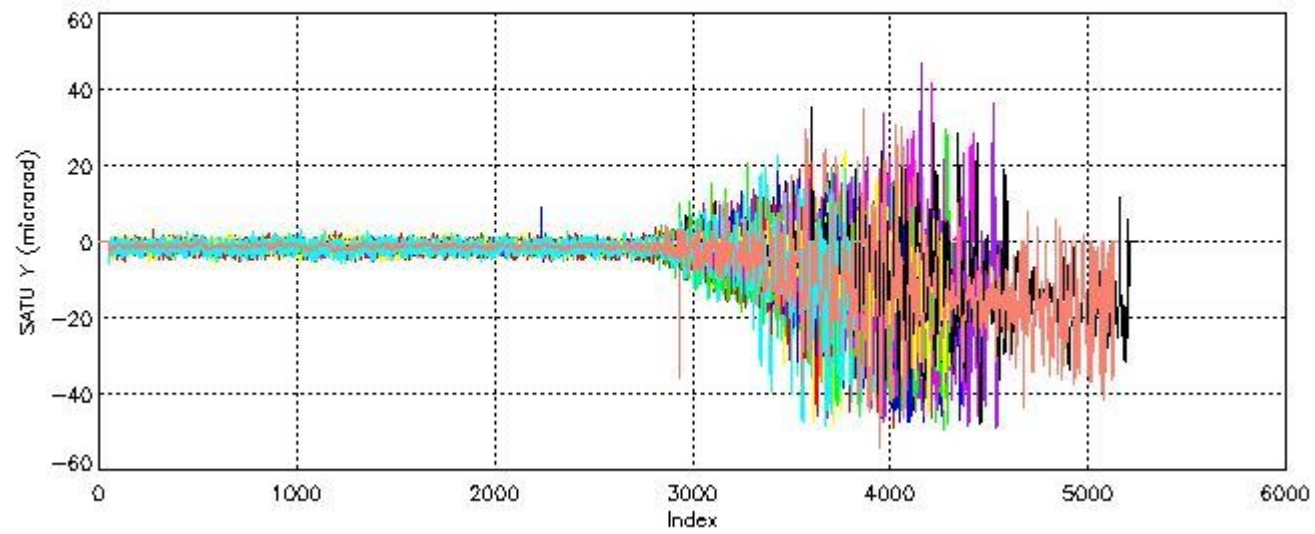
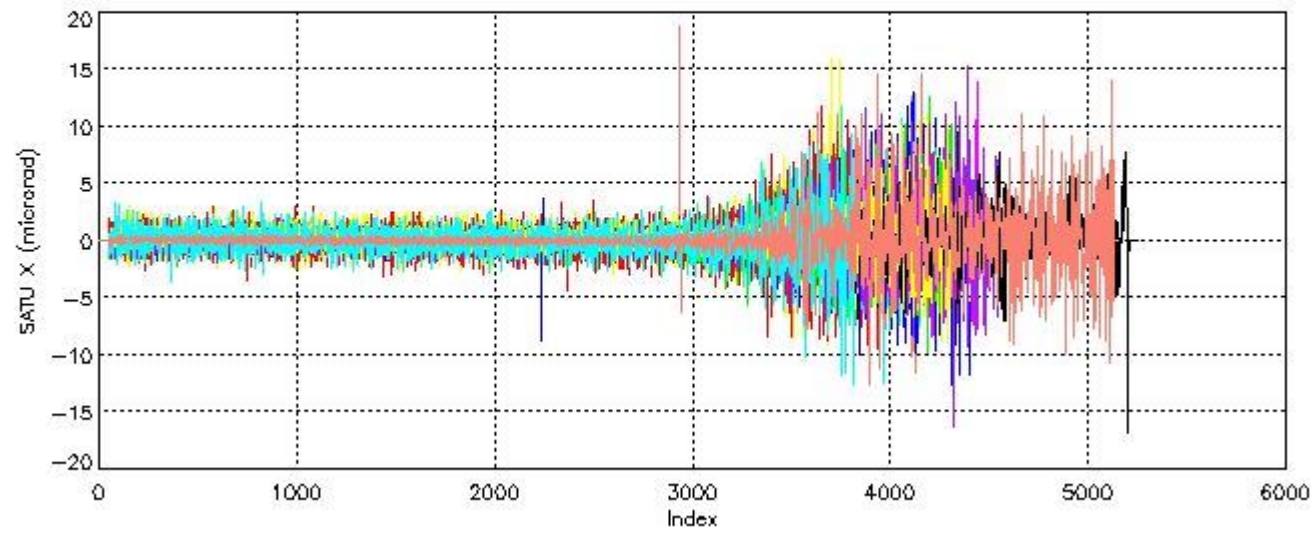


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.085933	-1.3109	0.043955	-1.2958
St. deviation:	0.41902	0.78968	0.67275	1.0276
Maximum:	3.4000	3.0000	4.4000	3.4000
Minimum:	-3.6000	-5.8000	-4.2000	-7.0000



Number of data:	16700.	16700.	18750.	18750.
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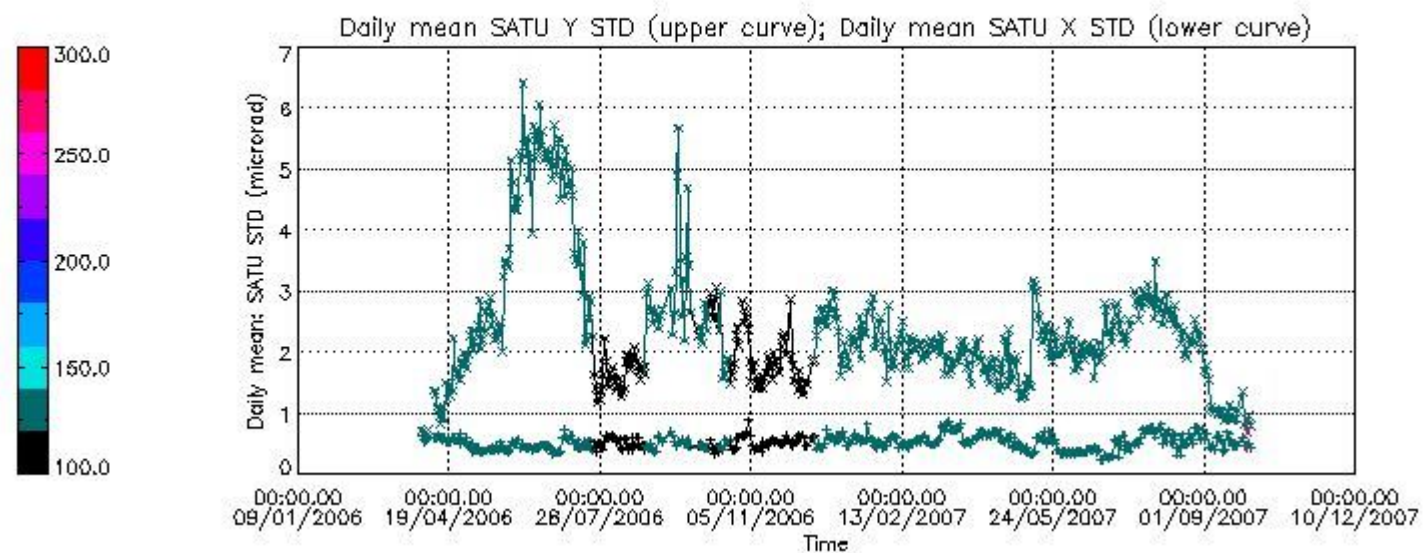
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

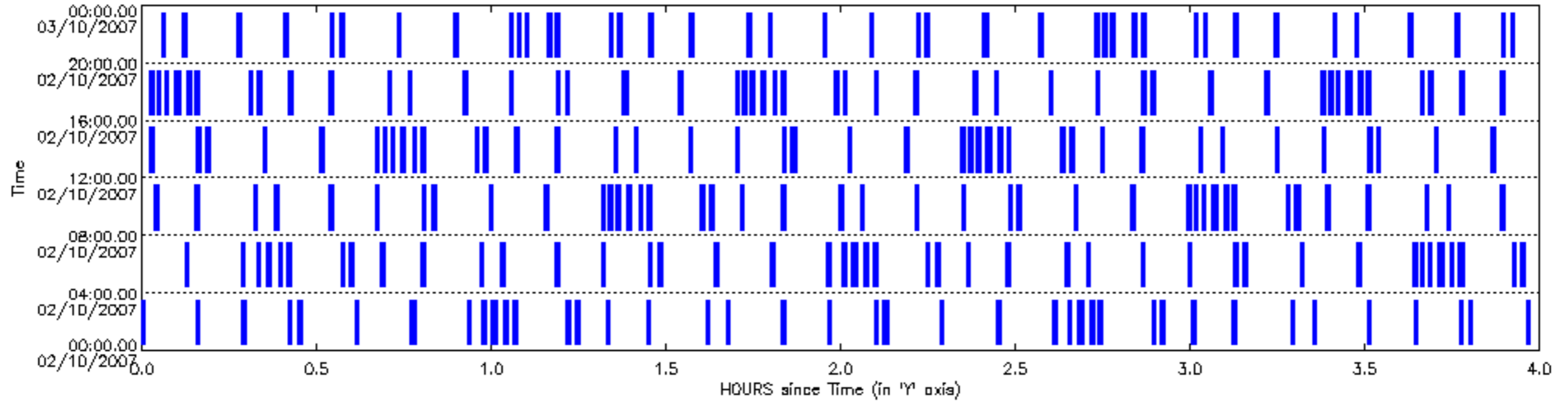
Lower curve: STD of SATU X axis

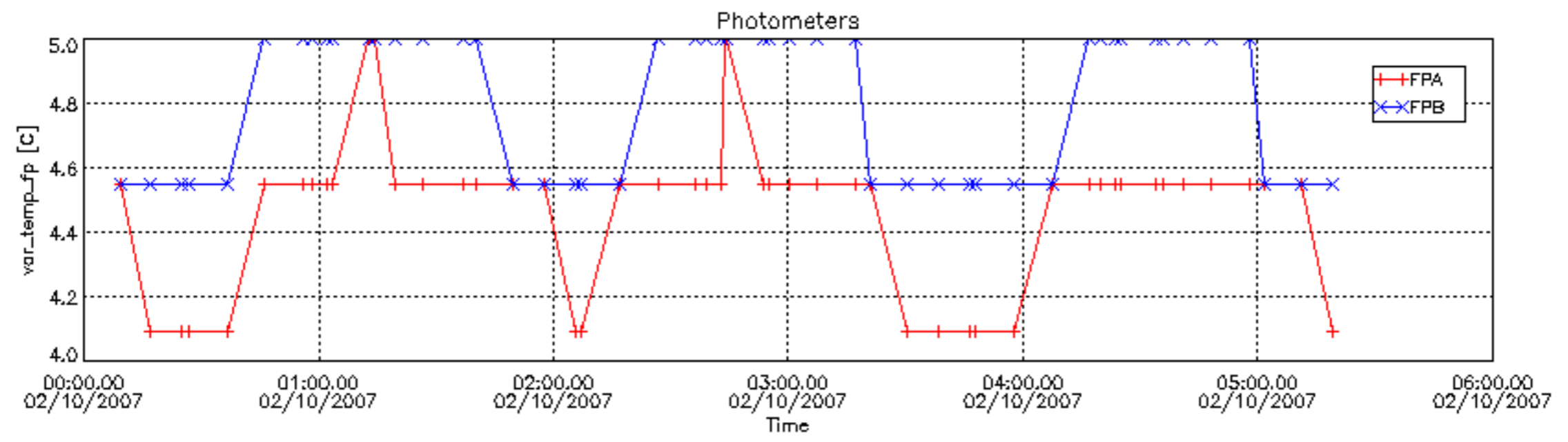
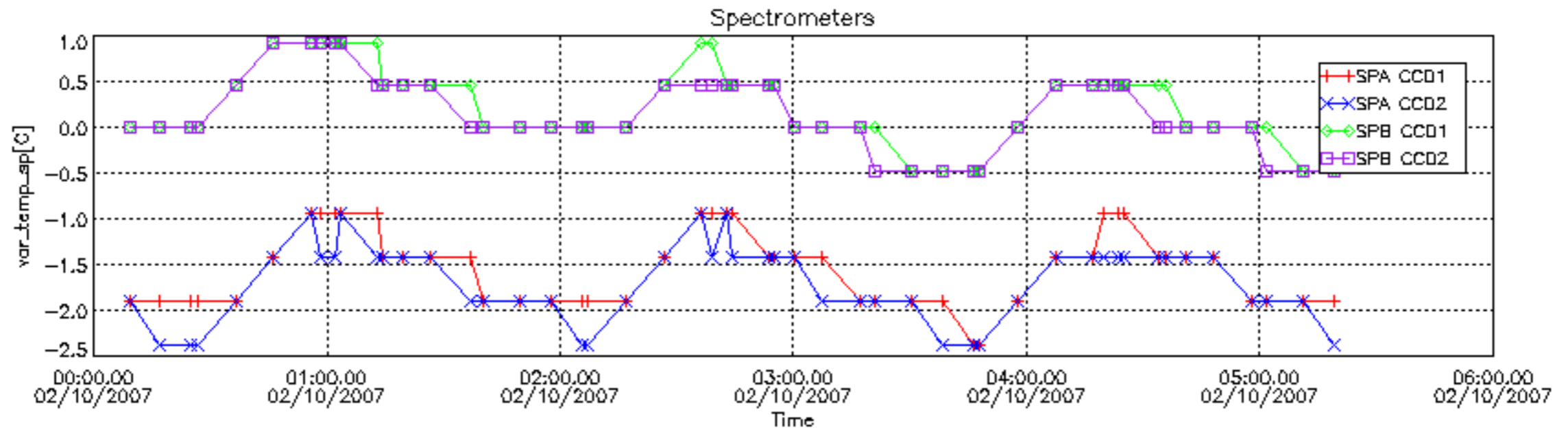


### 8. Auxiliary Data Files used for the production reported in section 2.4

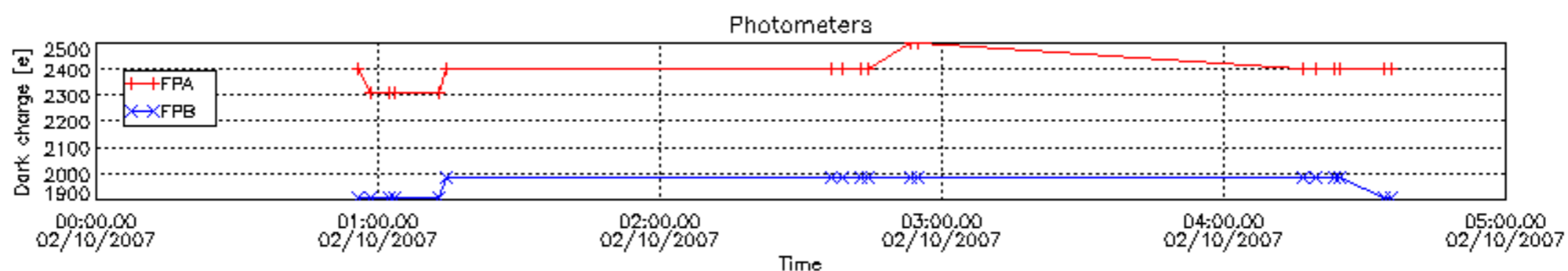
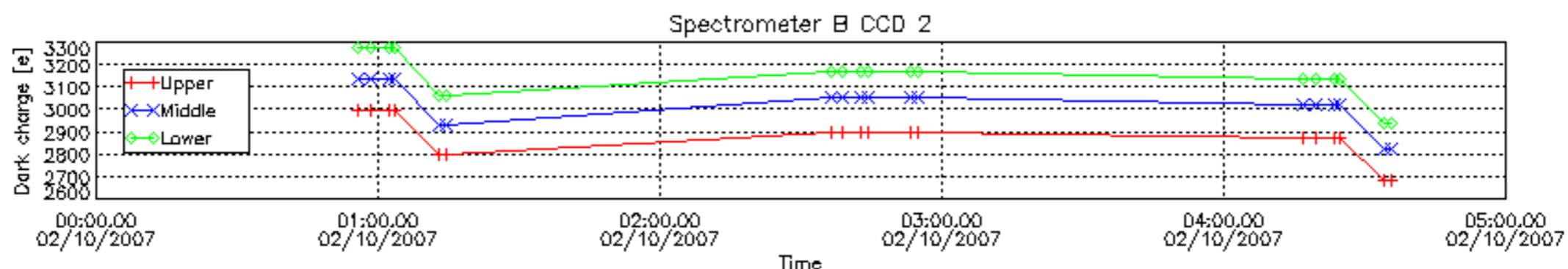
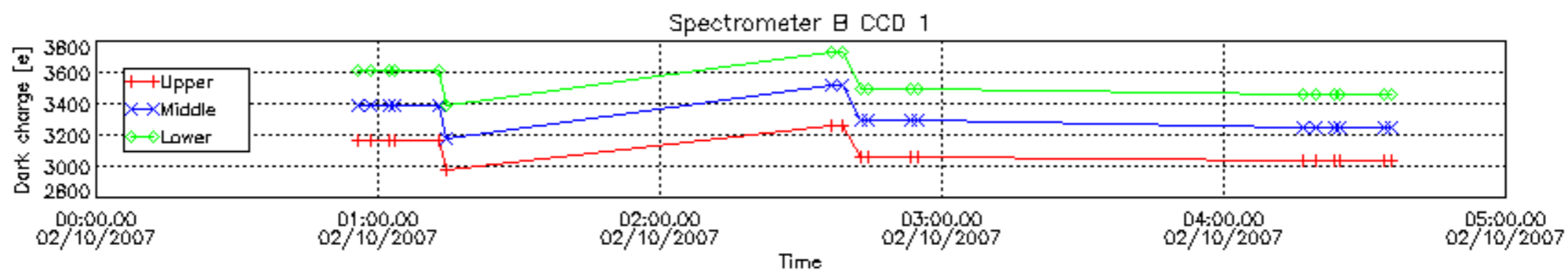
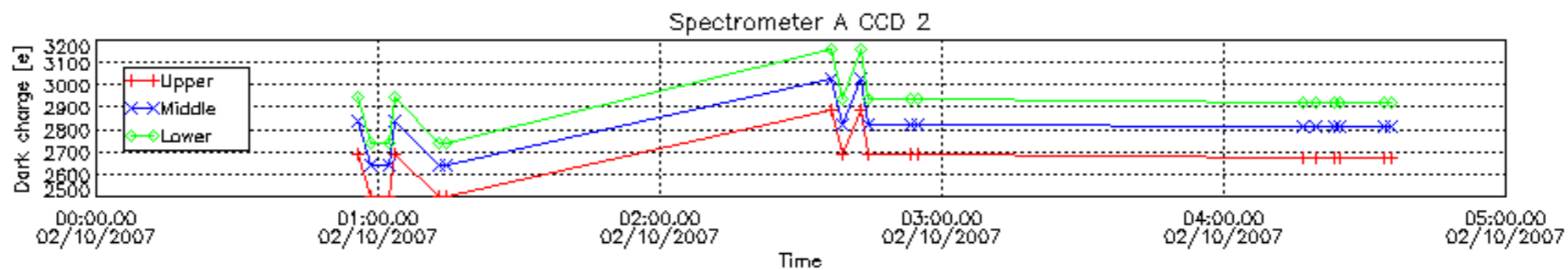
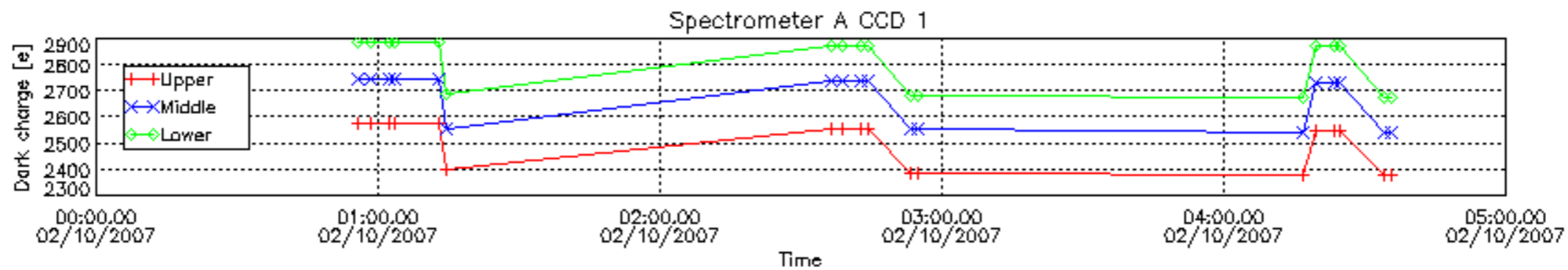
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-OCT-2007 00:09:10
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-OCT-2007 00:09:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-OCT-2007 00:09:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-OCT-2007 00:09:10
ECMWF_FILE	AUX_ECF_AXNECM20071002_100146_20071001_210000_20071002_090000	1	02-OCT-2007 00:09:10
ECMWF_FILE	AUX_ECF_AXNECM20071002_100134_20071002_030000_20071002_150000	35	02-OCT-2007 03:46:19
OPTIONAL_ECMWF_FILE	MISSING	1	02-OCT-2007 00:09:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071001_212008_000060572062_00100_29212_4269.N1	1	02-OCT-2007 00:09:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071002_004721_000054192062_00102_29214_4271.N1	7	02-OCT-2007 00:55:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071002_022259_000041442062_00103_29215_4272.N1	22	02-OCT-2007 02:26:42
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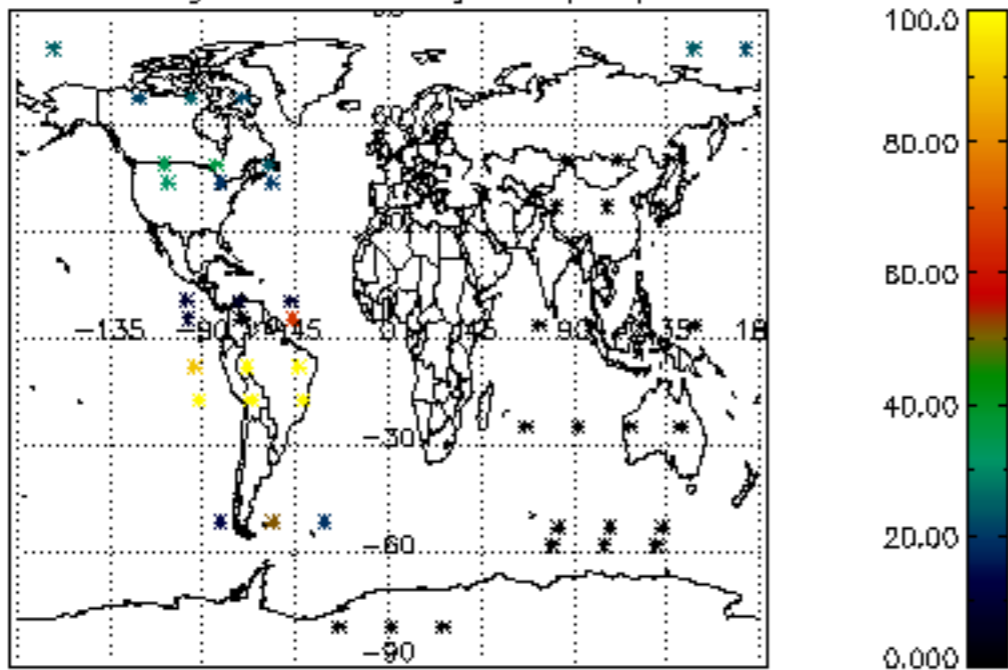




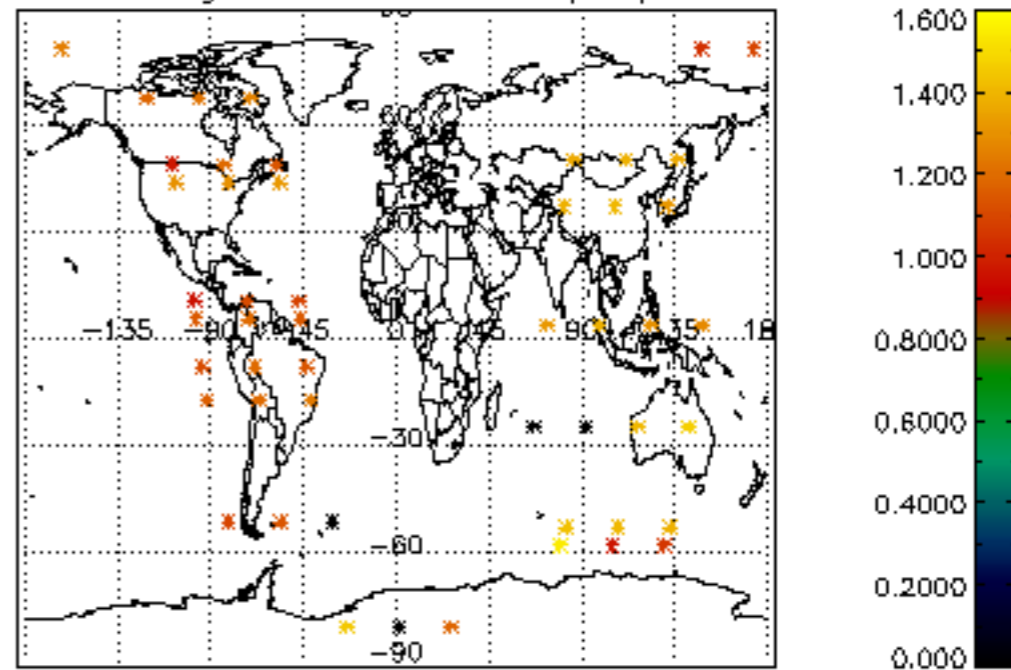




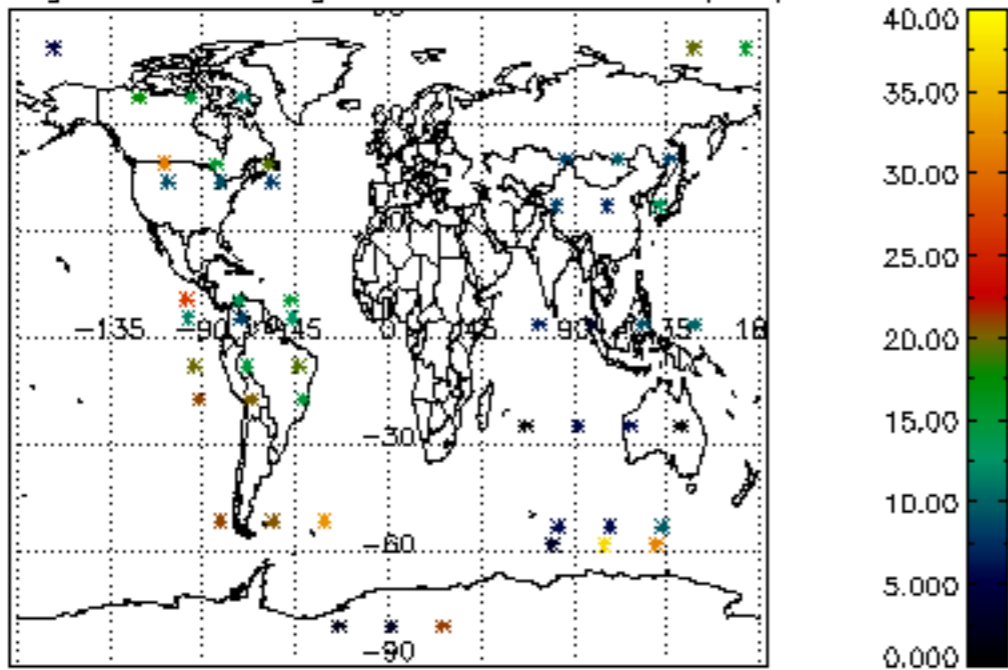
Percentage of cosmic ray hits per profile



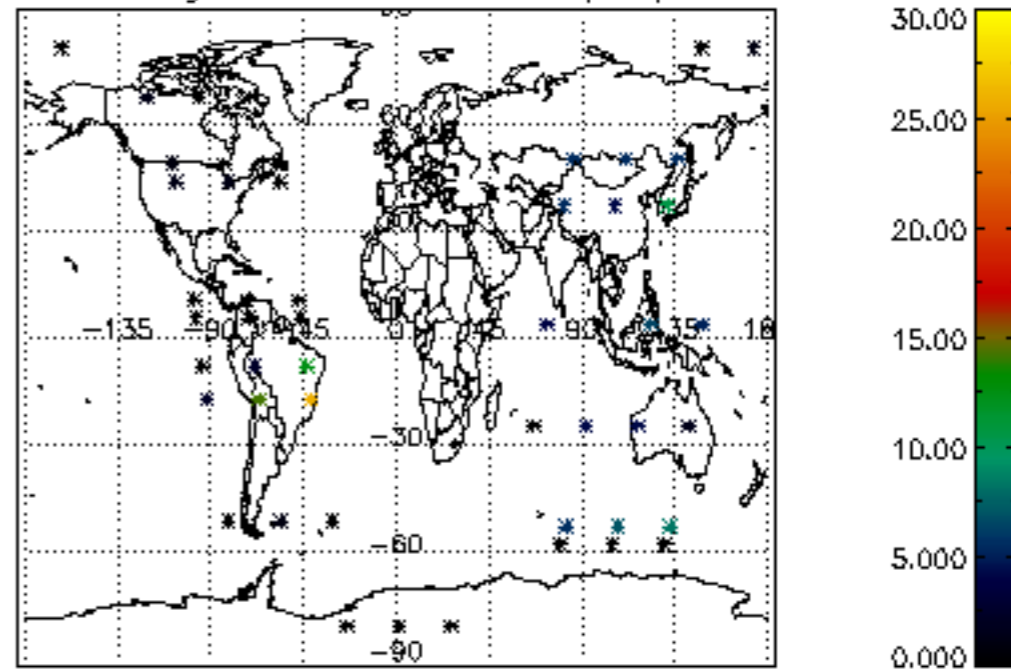
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

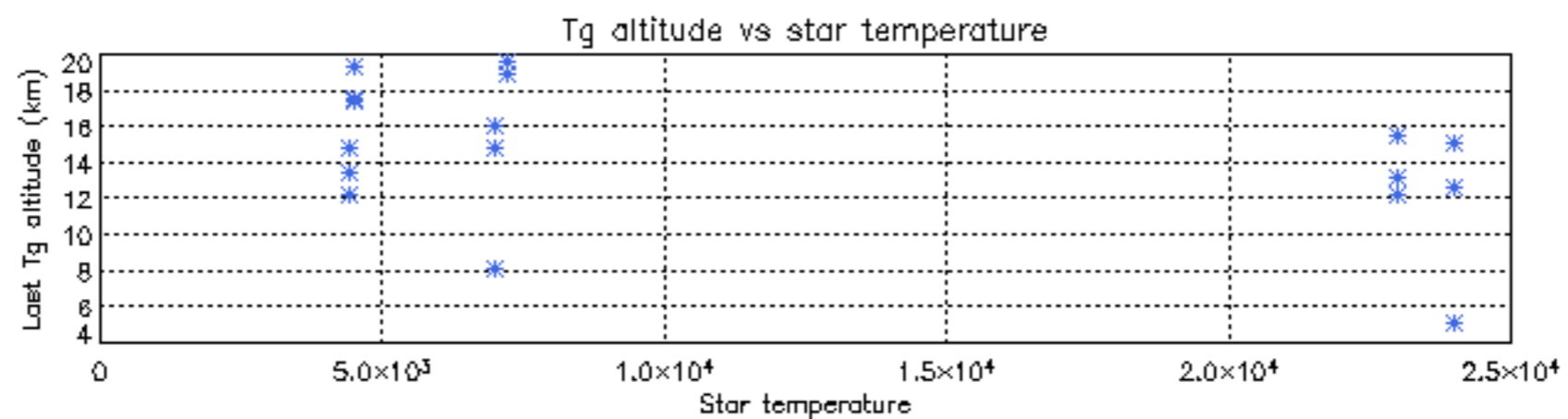
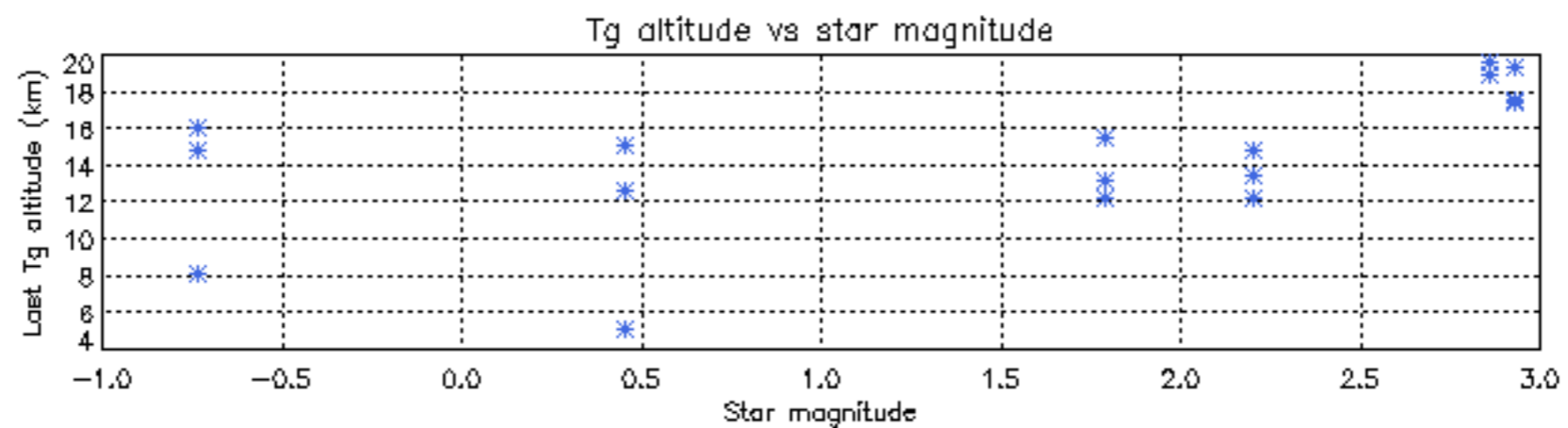
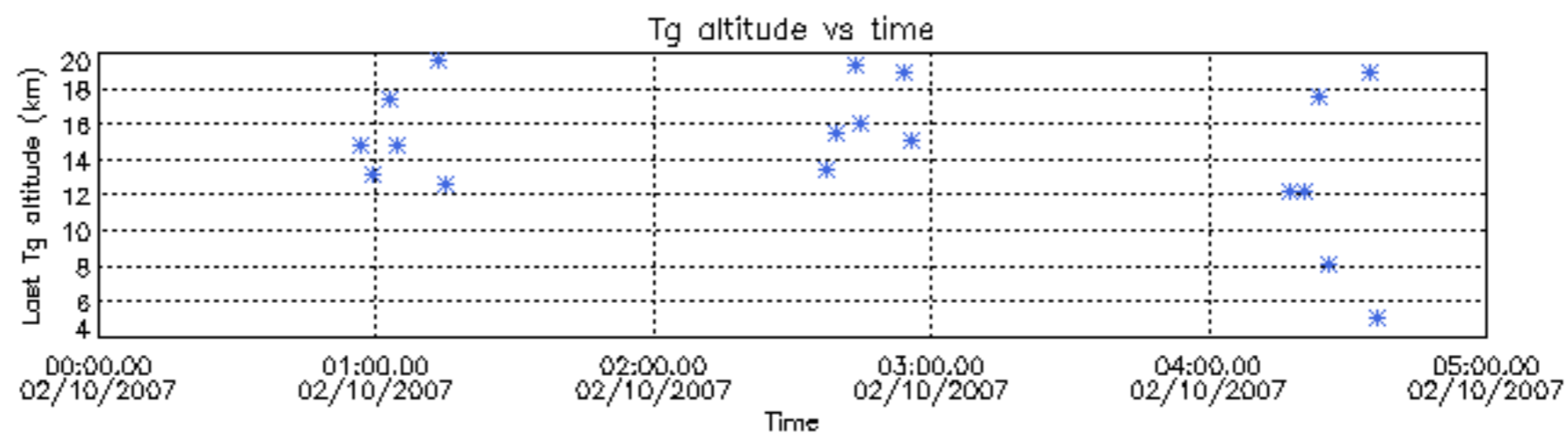


Percentage of saturation errors per profile

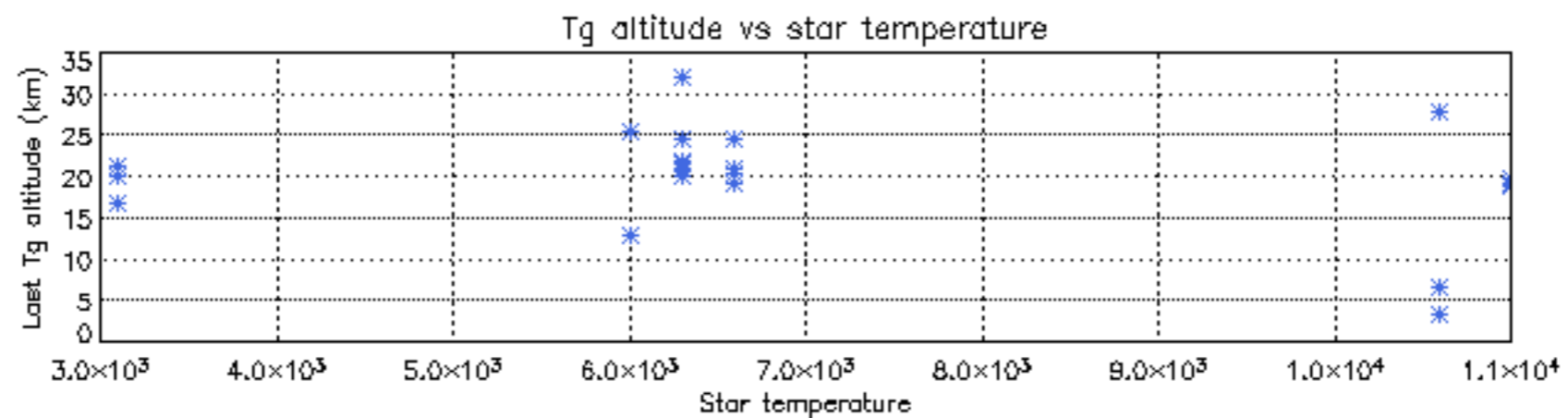
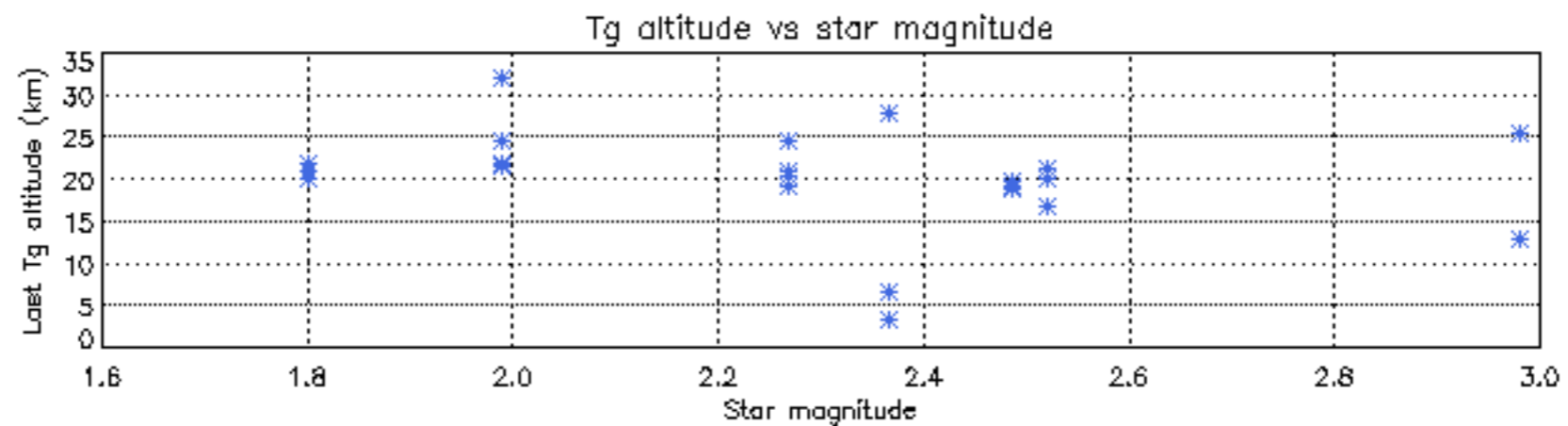
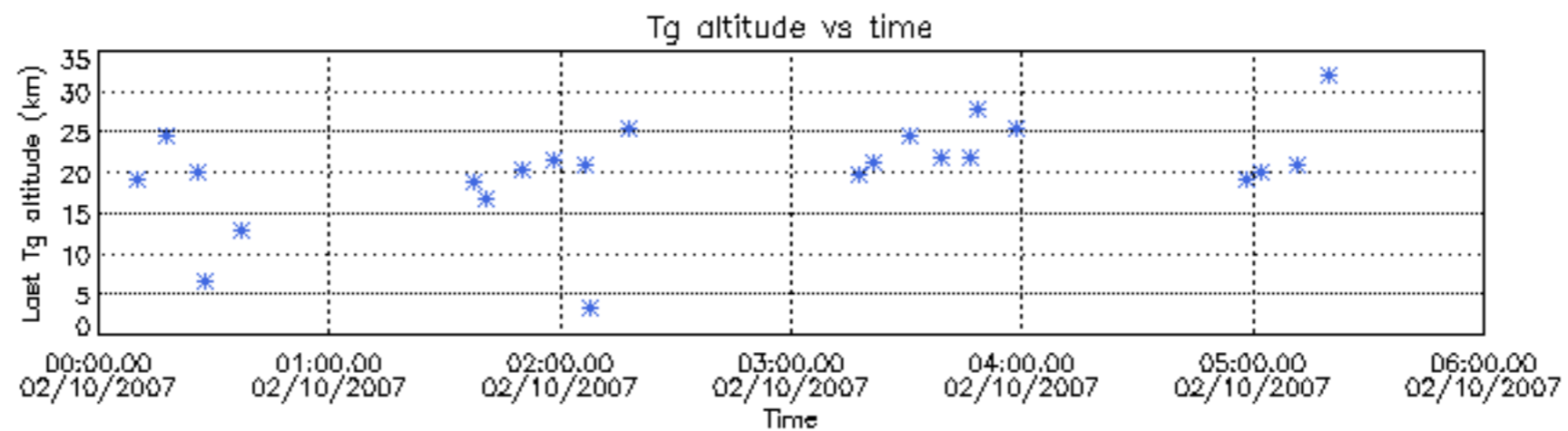




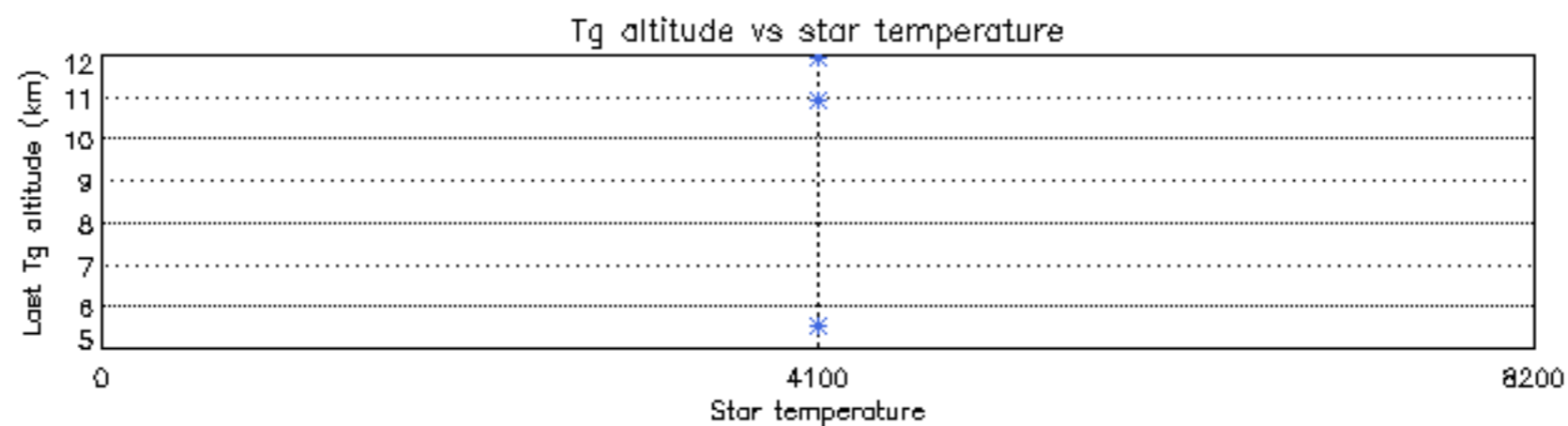
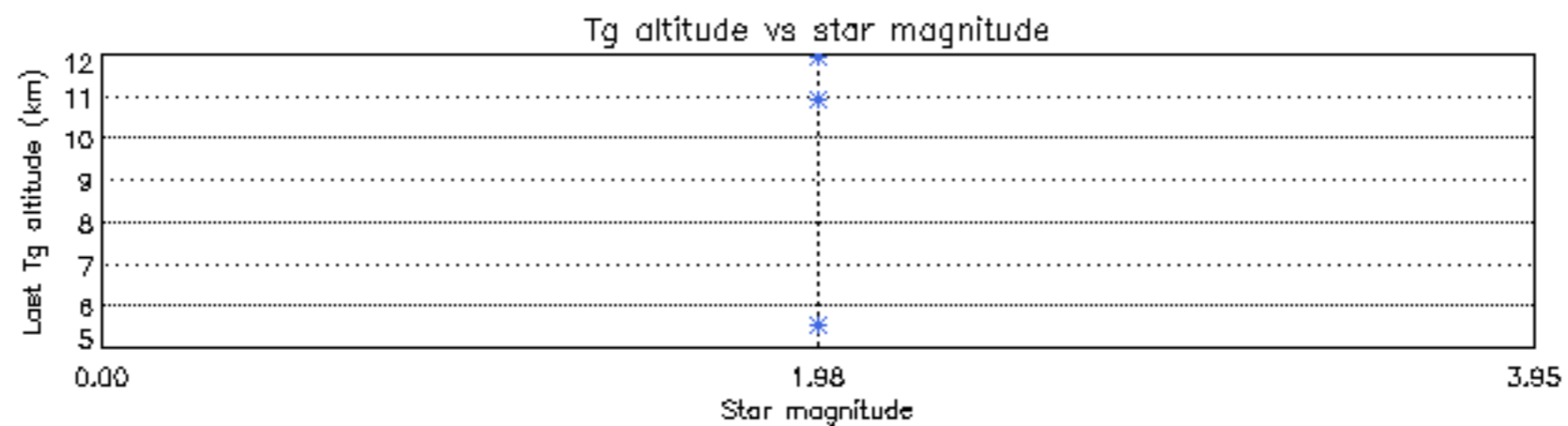
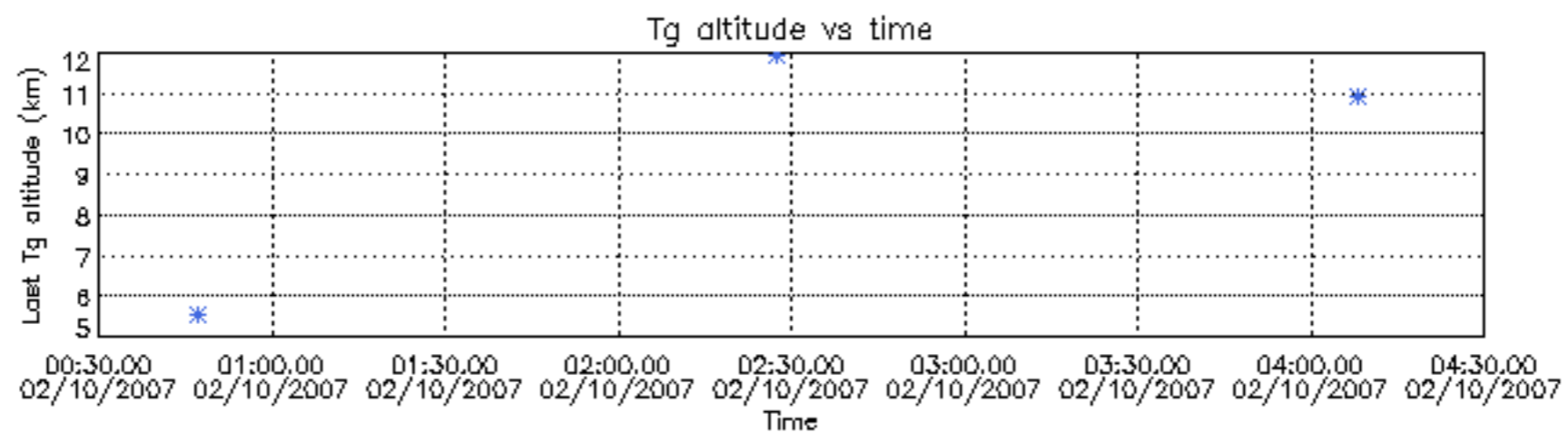
Tangent altitude at which the star is lost

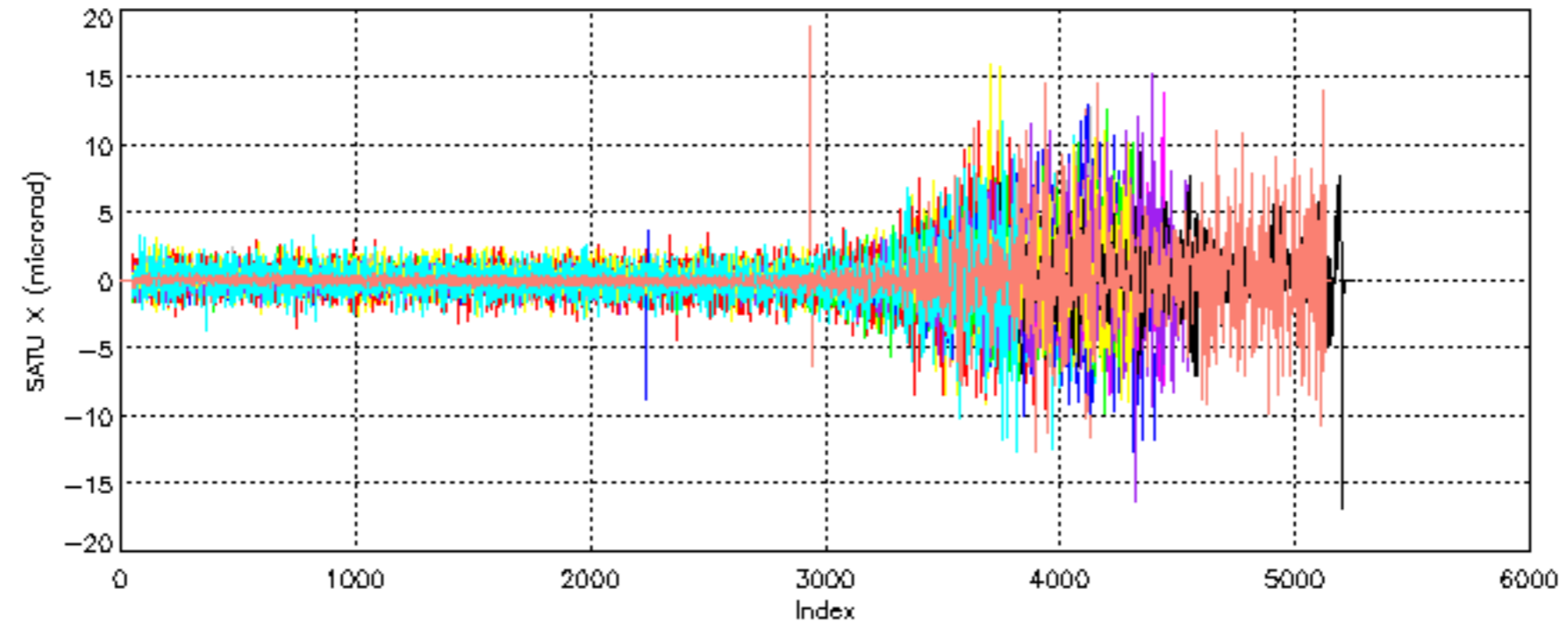


Tangent altitude at which the star is lost

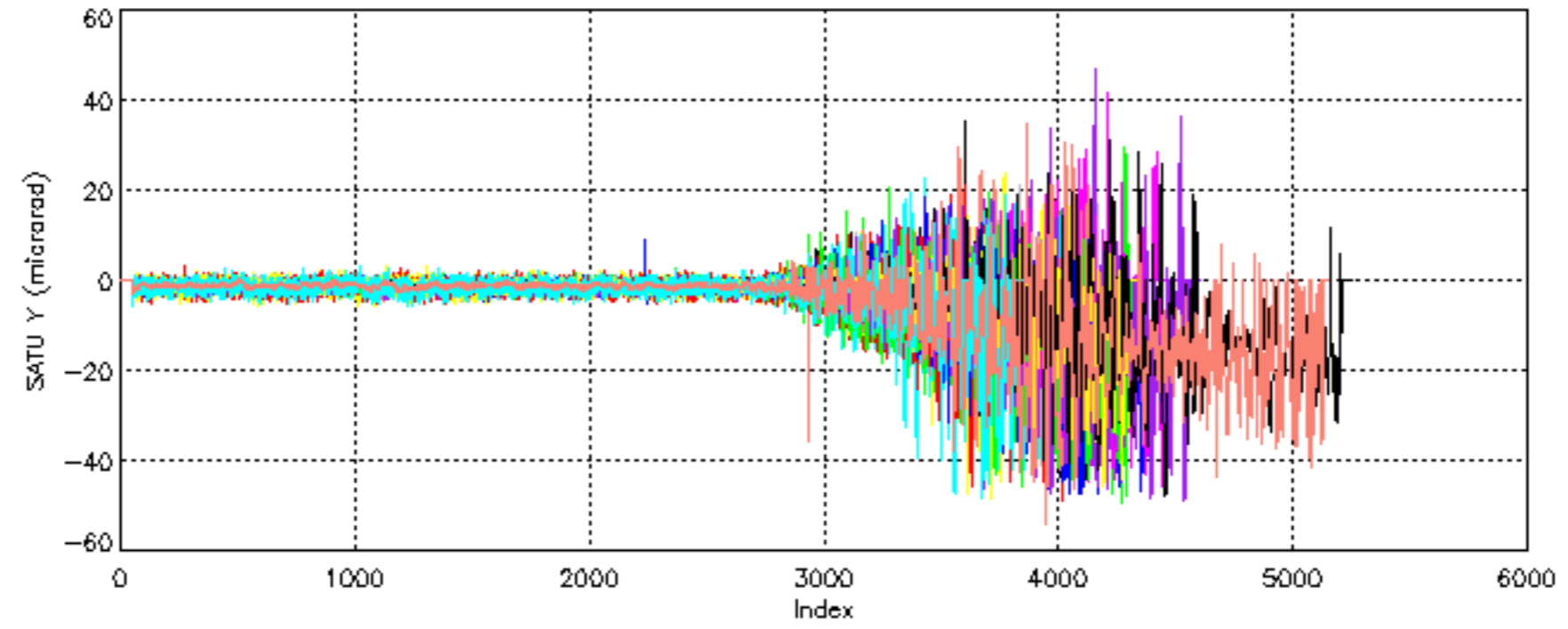


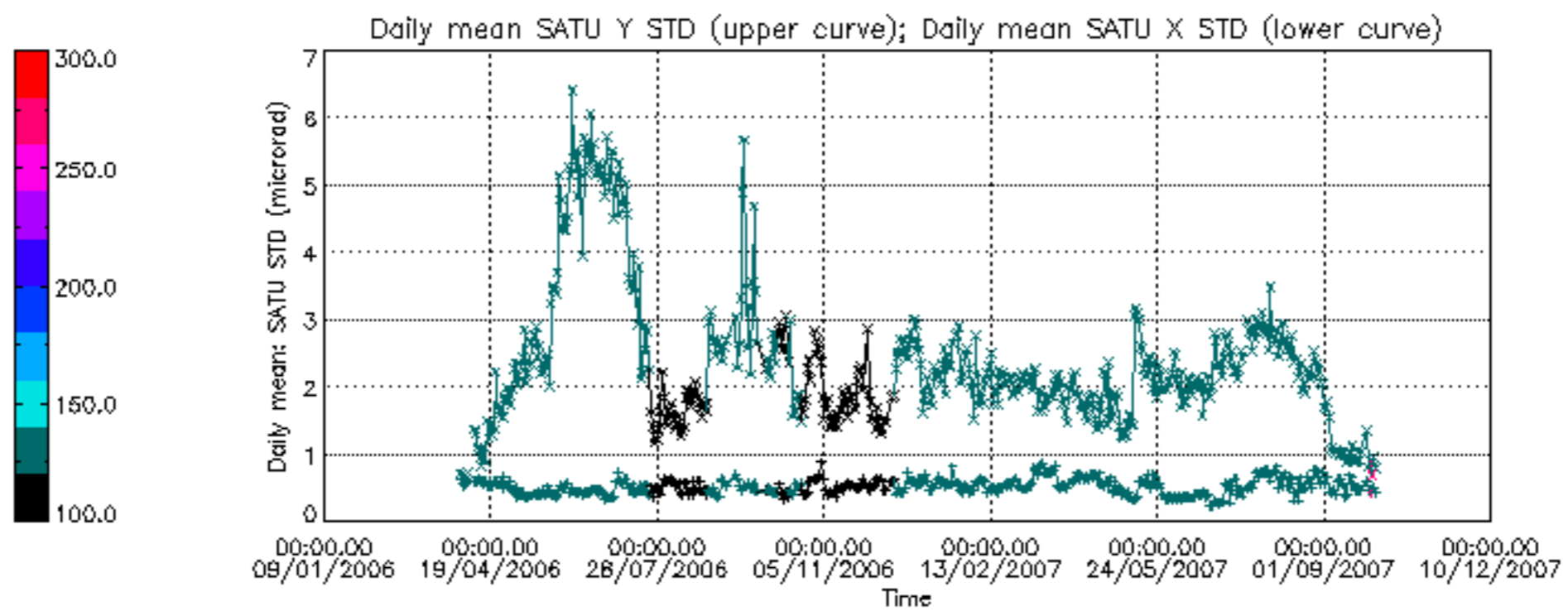
Tangent altitude at which the star is lost











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6; -133.1; 02-OCT-2007 04:19:36; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;29216
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8; 94.1; 02-OCT-2007 04:23:23; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29217
9; 178.4; 02-OCT-2007 04:24:47; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29217
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14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
15; 2386.4; 02-OCT-2007 05:01:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29217
16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
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3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
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6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220  
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 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221  
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221  
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 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221  
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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  
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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



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 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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 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  
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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  
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 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  
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 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  
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290  
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290  
 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  
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290  
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290  
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290  
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290  
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 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
 20; 7605.3; 07-OCT-2007 08:52:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29290

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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
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
10; 5198.9; 07-OCT-2007 09:52:47; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29291
11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
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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
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11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 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
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3; 2390.6; 07-OCT-2007 12:27:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29293
4; 2916.6; 07-OCT-2007 12:35:56; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29293
5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
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11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
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17; 6189.8; 07-OCT-2007 13:30:29; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29293
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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9; 4211.3; 12-OCT-2007 20:23:02; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29369
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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  
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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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5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
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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  
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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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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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3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
4; 2531.2; 22-OCT-2007 14:38:51; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;29509
5; 2873.6; 22-OCT-2007 14:44:33; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29509
6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
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9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
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11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
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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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6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511  
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 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512  
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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512  
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512  
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4; 2526.5; 24-OCT-2007 08:33:45; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29534
5; 2871.3; 24-OCT-2007 08:39:29; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29534
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 16; 6098.1; 24-OCT-2007 09:33:16; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29534  
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 17; 6209.3; 24-OCT-2007 11:15:43; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29535  
 18; 6871.2; 24-OCT-2007 11:26:45; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29535  
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 17; 6210.0; 24-OCT-2007 14:36:56; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29537  
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8; 87.5; 26-OCT-2007 06:49:51; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29562
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5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
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10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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13; 4013.2; 26-OCT-2007 19:39:29; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29569
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