

# GOMOS Daily Report 17-APR-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	23APR2007 10:27:45
Data source version	GOMOS/5.00
Start time of products	17-04-2007 (17APR2007 00:00:00)
Stop time of products	18-04-2007 (18APR2007 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)

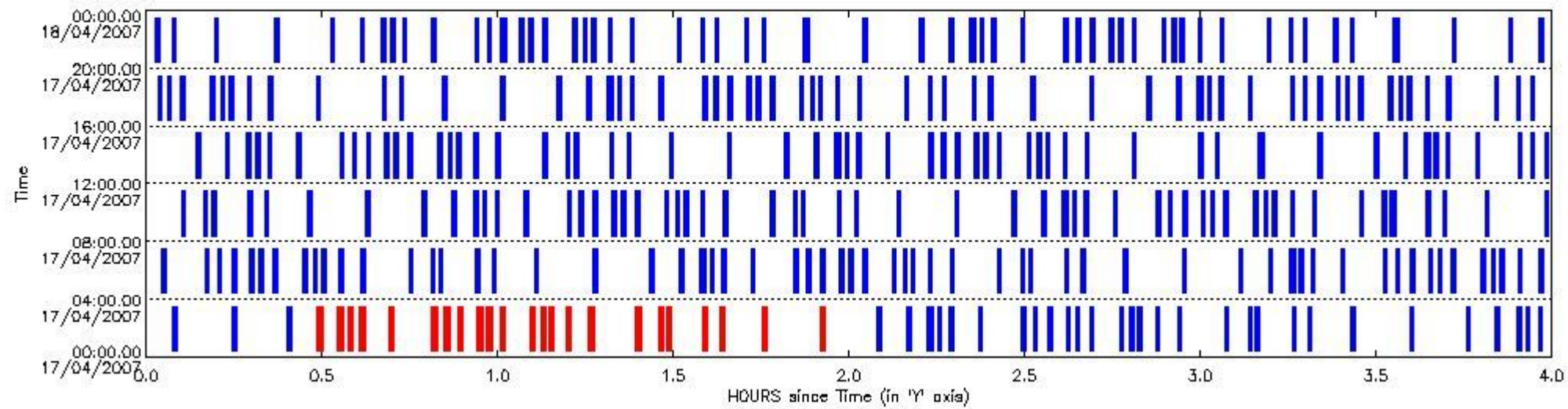
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
17-APR-2007 00:29:06	49DelCap	142	26809
17-APR-2007 00:32:39	DSA1037	0	26809
17-APR-2007 00:34:22	GamGru	172	26809
17-APR-2007 00:36:24	AlpGru	31	26809
17-APR-2007 00:41:24	AlpPav	45	26810
17-APR-2007 00:48:44	AlpTrA	43	26810
17-APR-2007 00:50:50	BetTrA	134	26810
17-APR-2007 00:53:13	Alp1Cen	4	26810
17-APR-2007 00:56:24	AlpLup	78	26810
17-APR-2007 00:58:00	EtaCen	81	26810
17-APR-2007 01:00:21	5TheCen	54	26810
17-APR-2007 01:05:27	9BetCrv	106	26810
17-APR-2007 01:07:16	4GamCrv	100	26810
17-APR-2007 01:08:39	67AlpVir	15	26810
17-APR-2007 01:11:41	29GamVir	121	26810

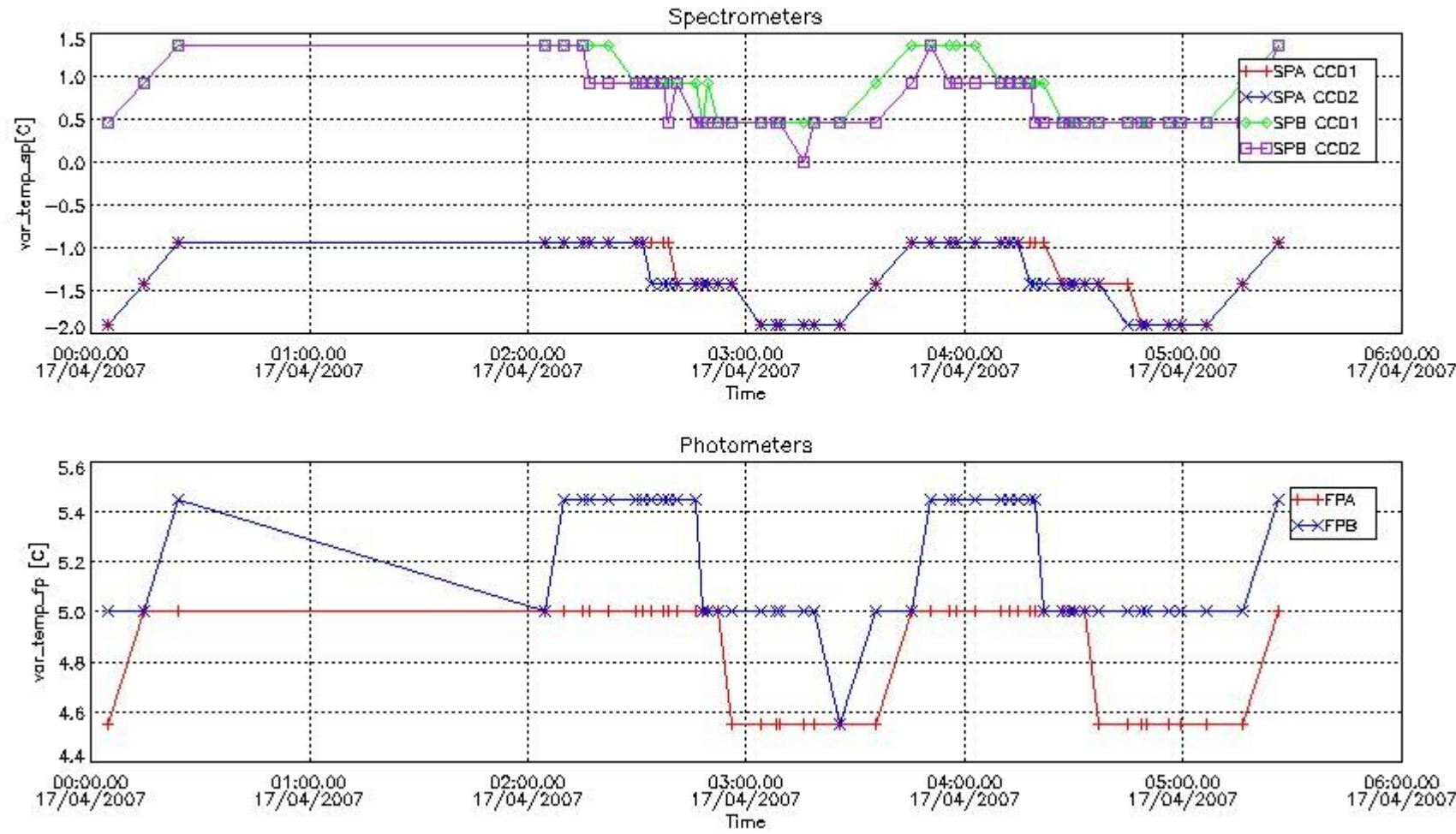
17-APR-2007 01:15:26	47EpsVir	138	26810
17-APR-2007 01:23:31	12Alp2CVn	152	26810
17-APR-2007 01:27:25	64GamUMa	87	26810
17-APR-2007 01:28:44	79ZetUMa	55	26810
17-APR-2007 01:34:55	7BetUMi	60	26810
17-APR-2007 01:37:48	1AlpUMi	49	26810
17-APR-2007 01:45:02	5AlpCep	89	26810
17-APR-2007 01:55:02	44EtaPeg	164	26810

## 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_1PNPDE20070417_000431_000000382057_00202_26809_4724.N1	17-APR-2007 00:04:31	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	26809	No
2	GOM_TRA_1PNPDE20070417_001431_000000532057_00202_26809_4725.N1	17-APR-2007 00:14:31	Bright	52.500	164	44Eta Peg	2.9480	5400.0	105	26809	No
3	GOM_TRA_1PNPDE20070417_002408_000000442057_00202_26809_4726.N1	17-APR-2007 00:24:08	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	26809	No
4	GOM_TRA_1PNPDE20070417_020444_000000452057_00203_26810_4846.N1	17-APR-2007 02:04:44	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	26810	No
5	GOM_TRA_1PNPDE20070417_020947_000000442057_00203_26810_4847.N1	17-APR-2007 02:09:47	Dark	44.000	142	49Del Cap	2.8500	8900.0	88	26810	No
6	GOM_TRA_1PNPDE20070417_021502_000000382057_00203_26810_4848.N1	17-APR-2007 02:15:02	Dark	37.500	172	Gam Gru	3.0030	13100.	75	26810	No
7	GOM_TRA_1PNPDE20070417_021705_000000392057_00203_26810_4849.N1	17-APR-2007 02:17:05	Dark	38.500	31	Alp Gru	1.7340	15200.	77	26810	No
8	GOM_TRA_1PNPDE20070417_022205_000000402057_00204_26811_4850.N1	17-APR-2007 02:22:05	Dark	39.500	45	Alp Pav	1.9400	26000.	79	26811	No
9	GOM_TRA_1PNPDE20070417_022925_000000382057_00204_26811_4851.N1	17-APR-2007 02:29:25	Dark	38.000	43	Alp TrA	1.9100	4250.0	76	26811	No
10	GOM_TRA_1PNPDE20070417_023131_000000382057_00204_26811_4852.N1	17-APR-2007 02:31:31	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	26811	No
11	GOM_TRA_1PNPDE20070417_023354_000000502057_00204_26811_4853.N1	17-APR-2007 02:33:54	Straylight	49.500	4	Alp1Cen	-0.010000	5800.0	99	26811	No
12	GOM_TRA_1PNPDE20070417_023705_000000422057_00204_26811_4854.N1	17-APR-2007 02:37:05	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	26811	No
13	GOM_TRA_1PNPDE20070417_023840_000000432057_00204_26811_4855.N1	17-APR-2007 02:38:40	Straylight	42.500	81	Eta Cen	2.3560	28000.	85	26811	No
14	GOM_TRA_1PNPDE20070417_024101_000000442057_00204_26811_4856.N1	17-APR-2007 02:41:01	Straylight	44.000	54	5The Cen	2.0550	4500.0	88	26811	No
15	GOM_TRA_1PNPDE20070417_024607_000000412057_00204_26811_4857.N1	17-APR-2007 02:46:07	Twilight	41.000	106	9Bet Crv	2.6480	5600.0	82	26811	No
16	GOM_TRA_1PNPDE20070417_024757_000000392057_00204_26811_4858.N1	17-APR-2007 02:47:57	Bright	38.500	100	4Gam Crv	2.5800	13100.	77	26811	No
17	GOM_TRA_1PNPDE20070417_024919_000000452057_00204_26811_4859.N1	17-APR-2007 02:49:19	Bright	45.000	15	67Alp Vir	0.97600	28000.	90	26811	No
18	GOM_TRA_1PNPDE20070417_025222_000000382057_00204_26811_4860.N1	17-APR-2007 02:52:22	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	26811	No
19	GOM_TRA_1PNPDE20070417_025606_000000392057_00204_26811_4861.N1	17-APR-2007 02:56:06	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	26811	No
20	GOM_TRA_1PNPDE20070417_030412_000000372057_00204_26811_4862.N1	17-APR-2007 03:04:12	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	26811	No
21	GOM_TRA_1PNPDE20070417_030805_000000362057_00204_26811_4863.N1	17-APR-2007 03:08:05	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	26811	No
22	GOM_TRA_1PNPDE20070417_030924_000000392057_00204_26811_4864.N1	17-APR-2007 03:09:24	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	26811	No
23	GOM_TRA_1PNPDE20070417_031535_000000402057_00204_26811_4865.N1	17-APR-2007 03:15:35	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	26811	No
24	GOM_TRA_1PNPDE20070417_031828_000000362057_00204_26811_4866.N1	17-APR-2007 03:18:28	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26811	No
25	GOM_TRA_1PNPDE20070417_032542_000000392057_00204_26811_5021.N1	17-APR-2007 03:25:42	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	26811	No
26	GOM_TRA_1PNPDE20070417_033543_000000372057_00204_26811_5022.N1	17-APR-2007 03:35:43	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	26811	No
27	GOM_TRA_1PNPDE20070417_034520_000000462057_00204_26811_5023.N1	17-APR-2007 03:45:20	Dark	46.000	162	34Alp Aqr	2.9440	5350.0	92	26811	No
28	GOM_TRA_1PNPDE20070417_035023_000000452057_00204_26811_5024.N1	17-APR-2007 03:50:23	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	26811	No
29	GOM_TRA_1PNPDE20070417_035539_000000392057_00204_26811_5025.N1	17-APR-2007 03:55:39	Dark	39.000	172	Gam Gru	3.0030	13100.	78	26811	No
30	GOM_TRA_1PNPDE20070417_035741_000000382057_00204_26811_5026.N1	17-APR-2007 03:57:41	Dark	38.000	31	Alp Gru	1.7340	15200.	76	26811	No
31	GOM_TRA_1PNPDE20070417_040241_000000392057_00205_26812_5027.N1	17-APR-2007 04:02:41	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26812	No
32	GOM_TRA_1PNPDE20070417_041001_000000392057_00205_26812_5028.N1	17-APR-2007 04:10:01	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	26812	No
33	GOM_TRA_1PNPDE20070417_041207_000000392057_00205_26812_5029.N1	17-APR-2007 04:12:07	Straylight	39.000	134	Bet TrA	2.8100	6600.0	78	26812	No
34	GOM_TRA_1PNPDE20070417_041430_000000542057_00205_26812_5030.N1	17-APR-2007 04:14:30	Straylight	54.000	4	Alp1Cen	-0.010000	5800.0	108	26812	No
35	GOM_TRA_1PNPDE20070417_041742_000000422057_00205_26812_5031.N1	17-APR-2007 04:17:42	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	26812	No
36	GOM_TRA_1PNPDE20070417_041917_000000442057_00205_26812_5032.N1	17-APR-2007 04:19:17	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	26812	No
37	GOM_TRA_1PNPDE20070417_042138_000000472057_00205_26812_5033.N1	17-APR-2007 04:21:38	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	26812	No
38	GOM_TRA_1PNPDE20070417_042643_000000442057_00205_26812_5034.N1	17-APR-2007 04:26:43	Twilight	43.500	106	9Bet Crv	2.6480	5600.0	87	26812	No
39	GOM_TRA_1PNPDE20070417_042833_000000372057_00205_26812_5035.N1	17-APR-2007 04:28:33	Bright	36.500	100	4Gam Crv	2.5800	13100.	73	26812	No
40	GOM_TRA_1PNPDE20070417_042955_000000432057_00205_26812_5036.N1	17-APR-2007 04:29:55	Bright	43.000	15	67Alp Vir	0.97600	28000.	86	26812	No
41	GOM_TRA_1PNPDE20070417_043258_000000382057_00205_26812_5037.N1	17-APR-2007 04:32:58	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	26812	No
42	GOM_TRA_1PNPDE20070417_043642_000000392057_00205_26812_5038.N1	17-APR-2007 04:36:42	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	26812	No
43	GOM_TRA_1PNPDE20070417_044447_000000372057_00205_26812_5039.N1	17-APR-2007 04:44:47	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	26812	No
44	GOM_TRA_1PNPDE20070417_044841_000000362057_00205_26812_5040.N1	17-APR-2007 04:48:41	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26812	No
45	GOM_TRA_1PNPDE20070417_045000_000000392057_00205_26812_5041.N1	17-APR-2007 04:50:00	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	26812	No
46	GOM_TRA_1PNPDE20070417_045611_000000392057_00205_26812_5042.N1	17-APR-2007 04:56:11	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	26812	No

47	GOM_TRA_1PNPDE20070417_045905_000000352057_00205_26812_5043.N1	17-APR-2007 04:59:05	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26812	No
48	GOM_TRA_1PNPDE20070417_050618_000000382057_00205_26812_5173.N1	17-APR-2007 05:06:18	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	26812	No
49	GOM_TRA_1PNPDE20070417_051619_000000362057_00205_26812_5174.N1	17-APR-2007 05:16:19	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	26812	No
50	GOM_TRA_1PNPDE20070417_052557_000000472057_00205_26812_5175.N1	17-APR-2007 05:25:57	Dark	46.500	162	34Alp Aqr	2.9440	5350.0	93	26812	No

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



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

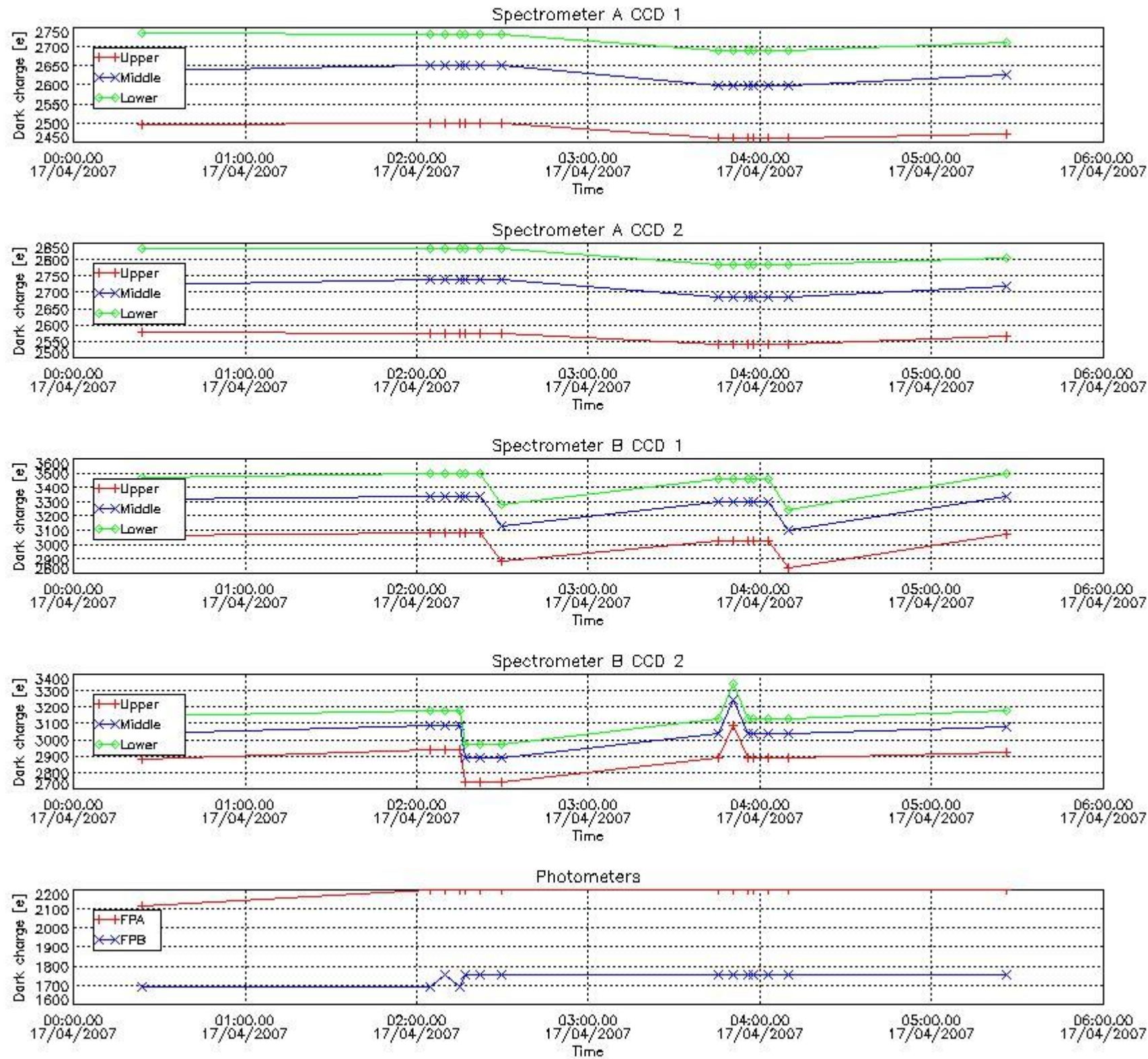
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





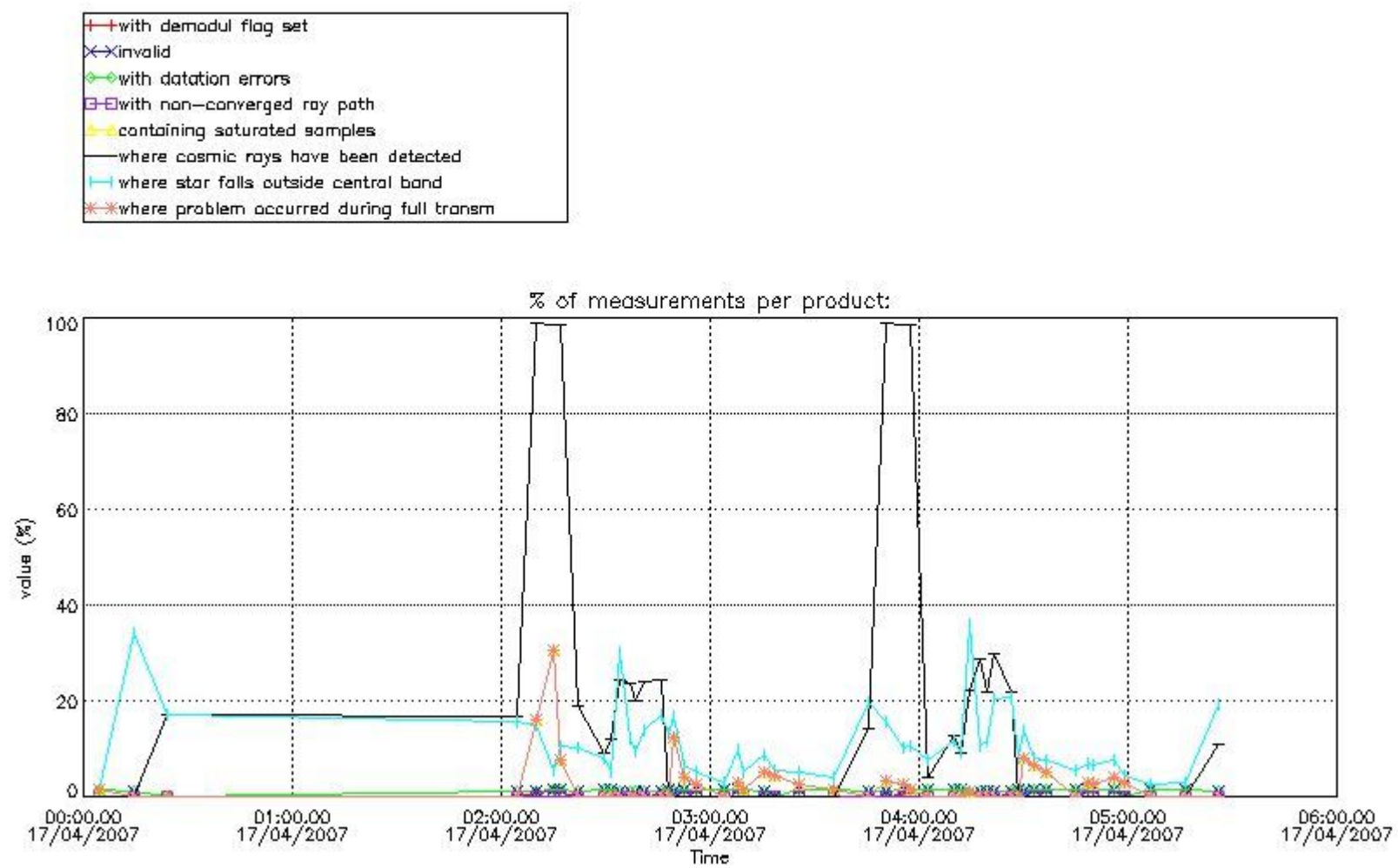
## 5. Demodulation flag and quality information monitoring

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:

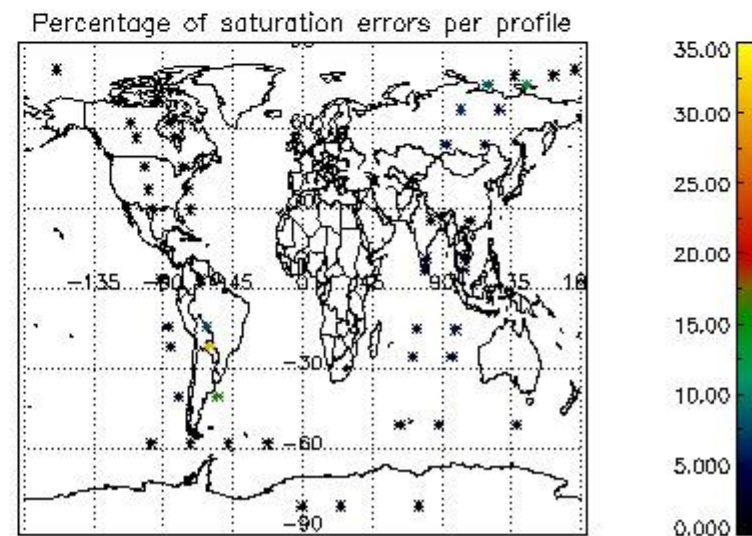
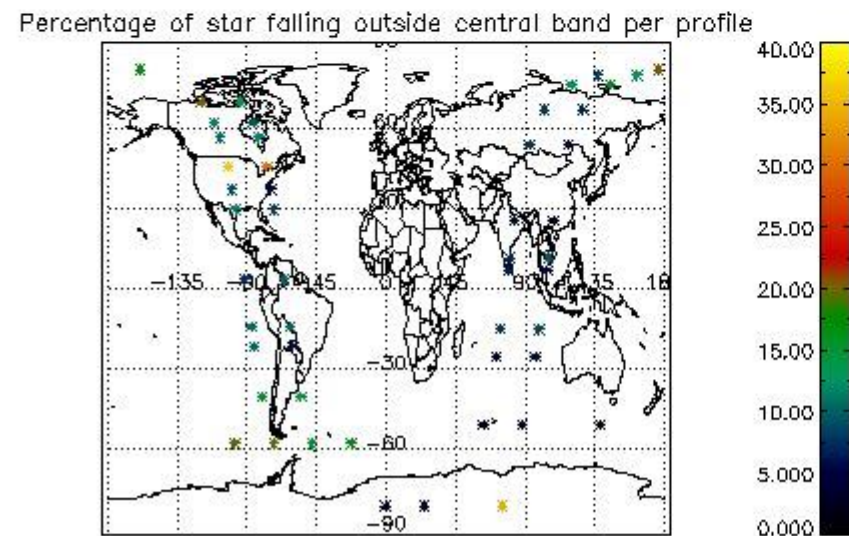
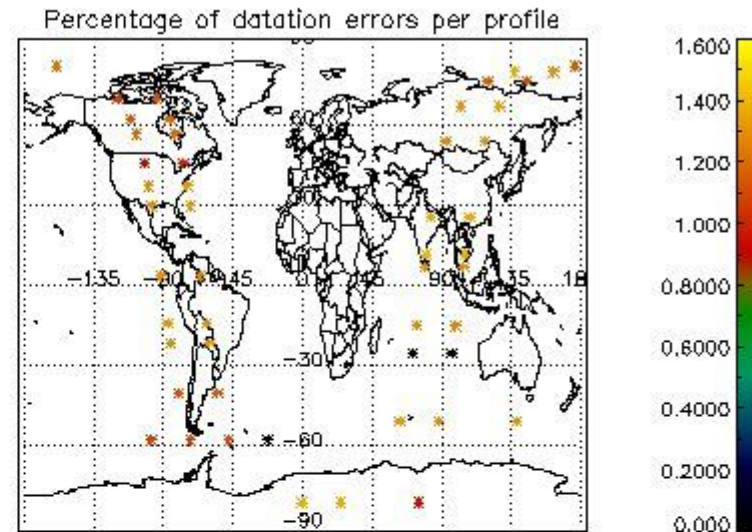
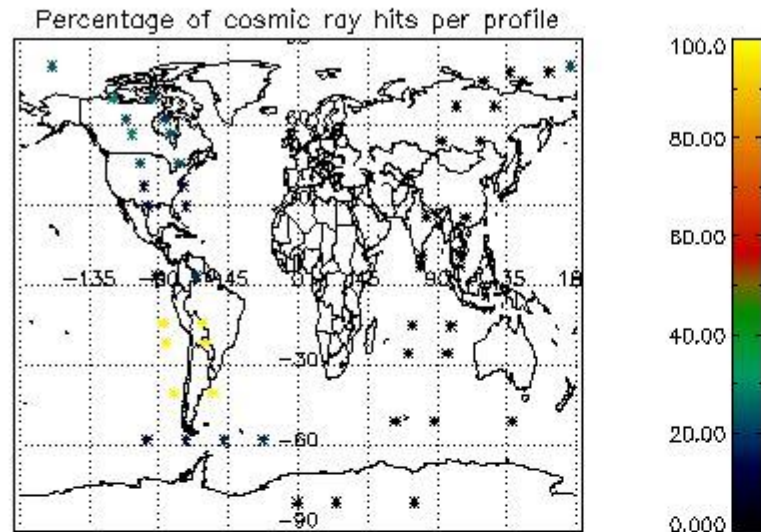
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





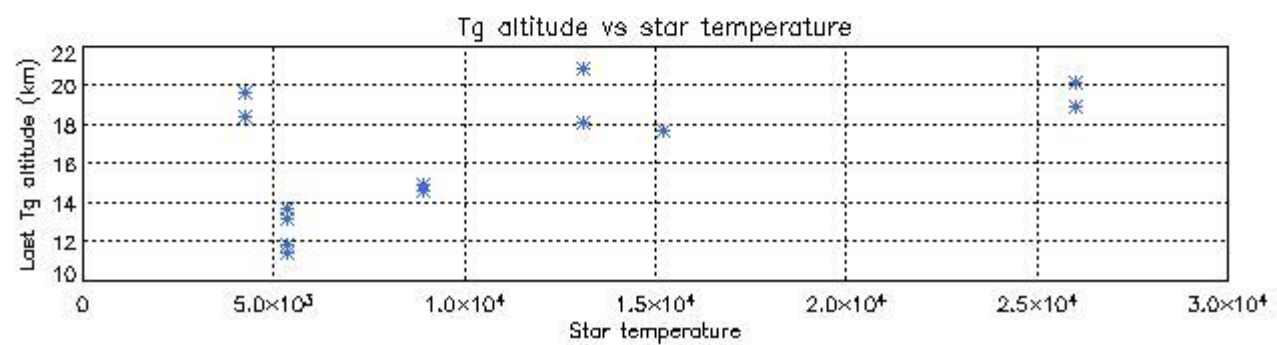
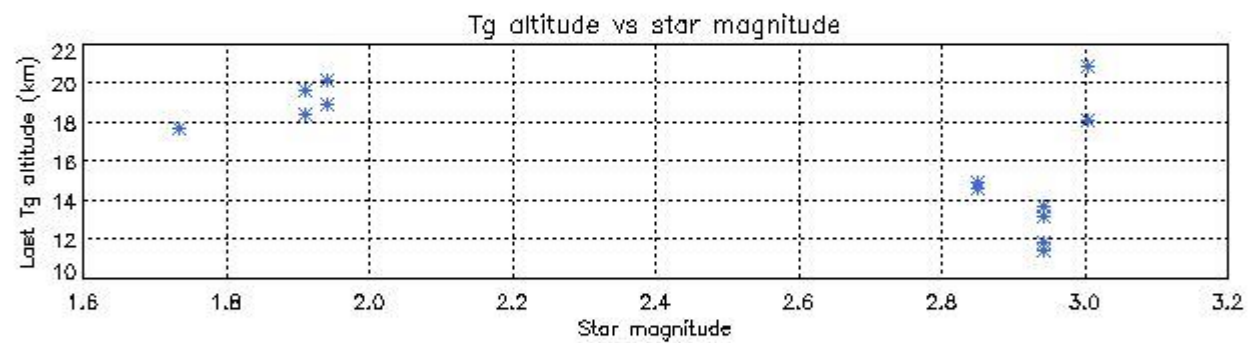
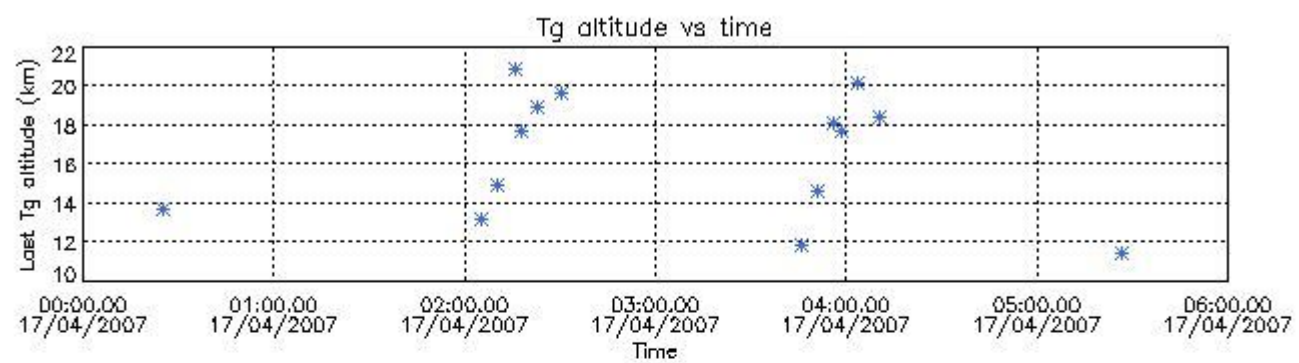
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.522	20.241	NaN
St. deviation:	3.1557	4.2668	NaN
Maximum:	20.865	24.418	NaN
Minimum:	11.441	5.3157	NaN
Number of data:	14.000	24.000	NaN

### 6.2 Plot for DARK limb products

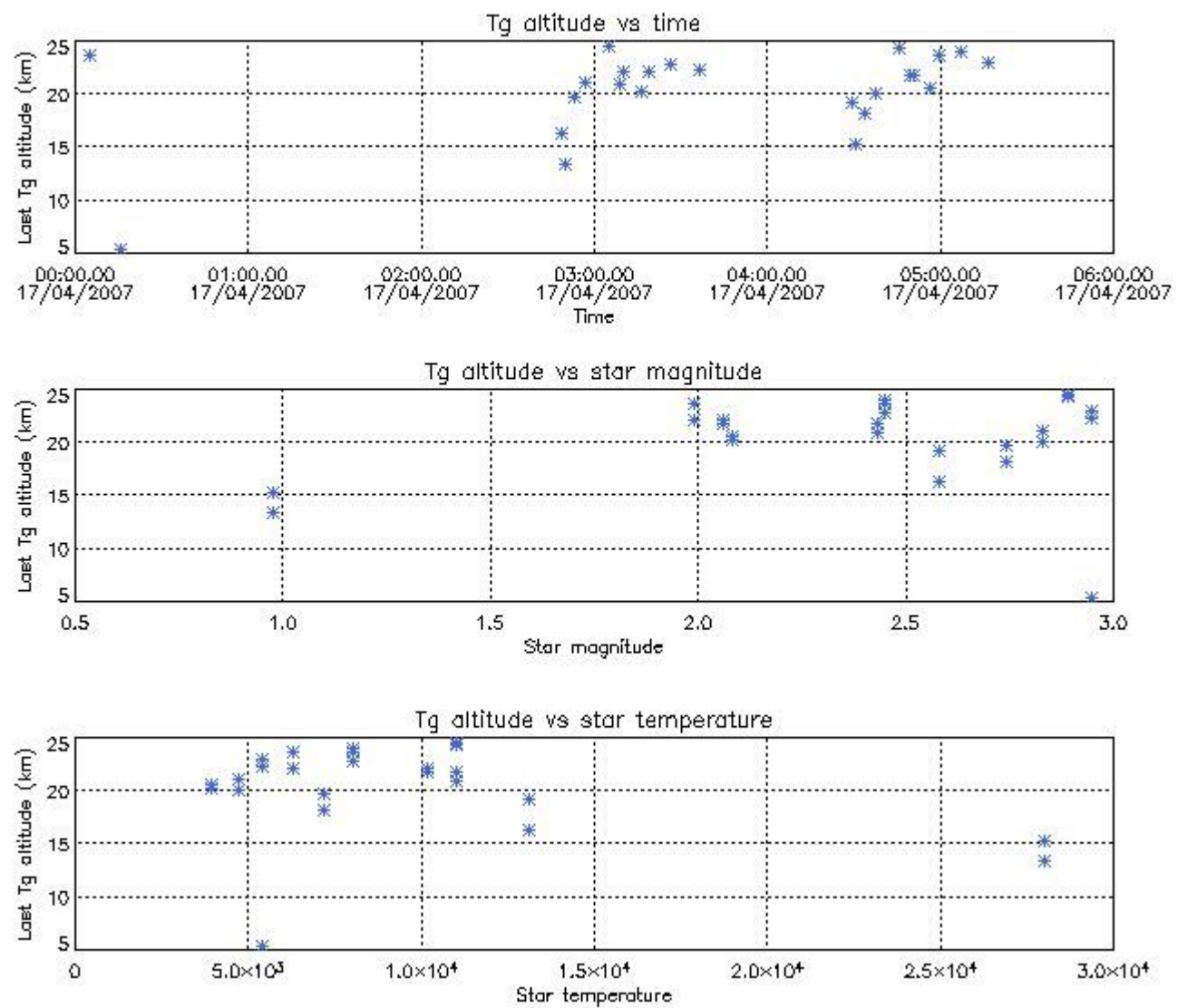
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

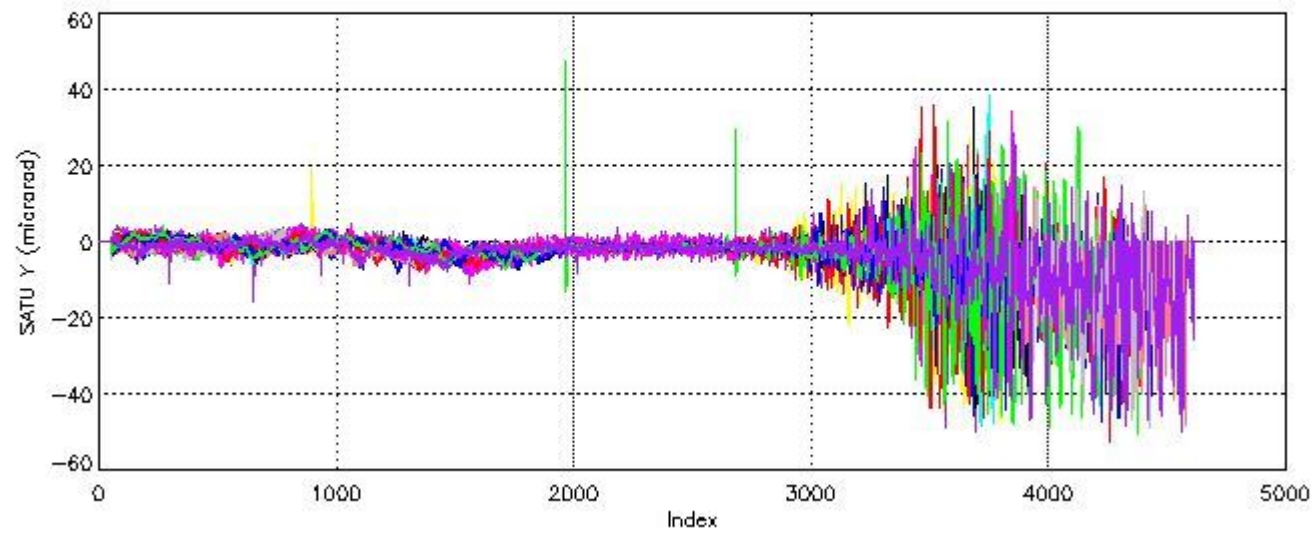
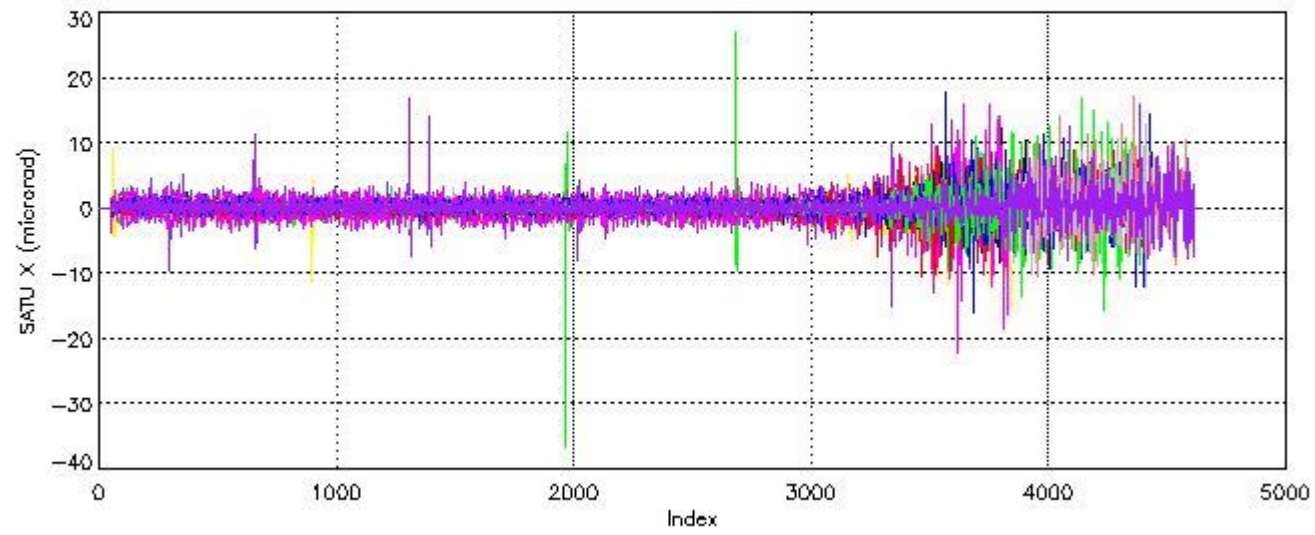


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.064991	-0.65810	0.14235	-0.62434
St. deviation:	0.70419	1.5092	0.82851	1.5554
Maximum:	11.300	19.100	5.2000	6.2000
Minimum:	-11.600	-15.900	-5.7000	-8.8000

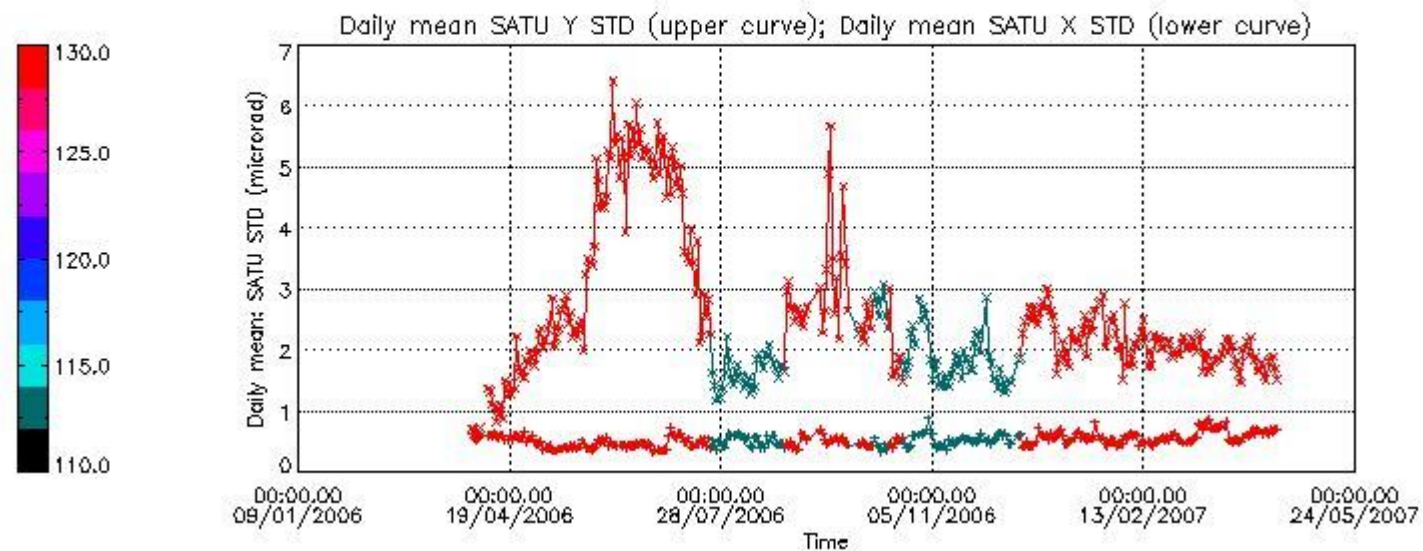
Number of data:	13000.	13000.	20900.	20900.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

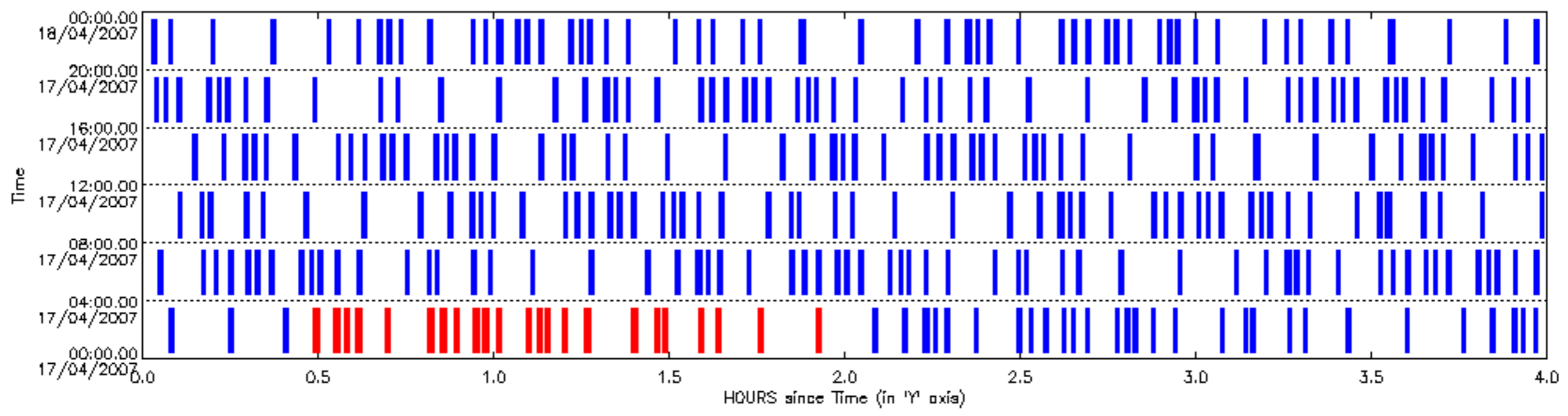


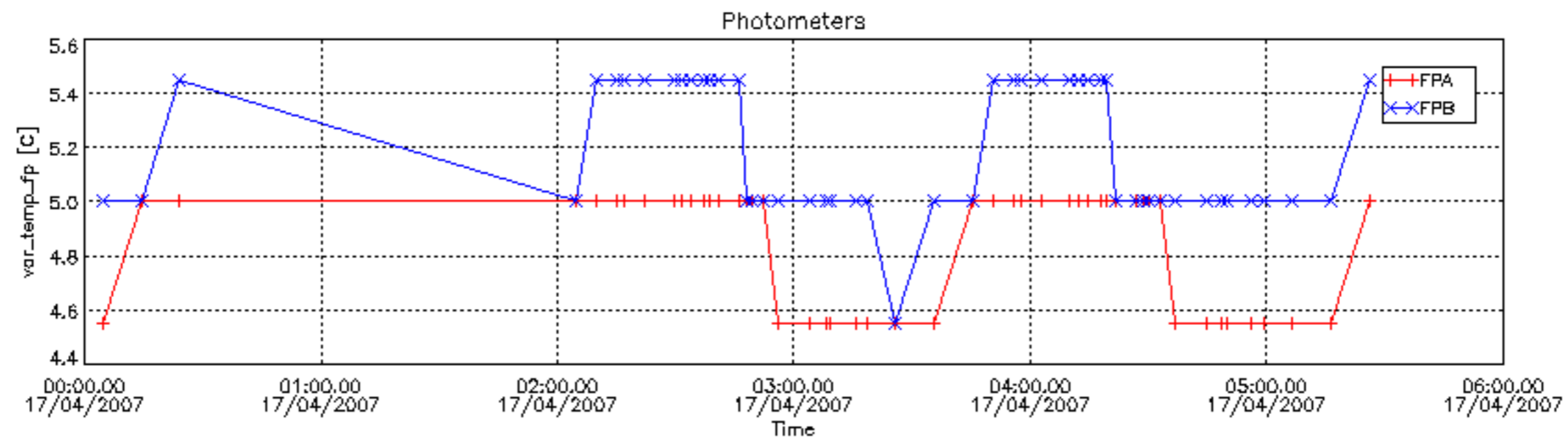
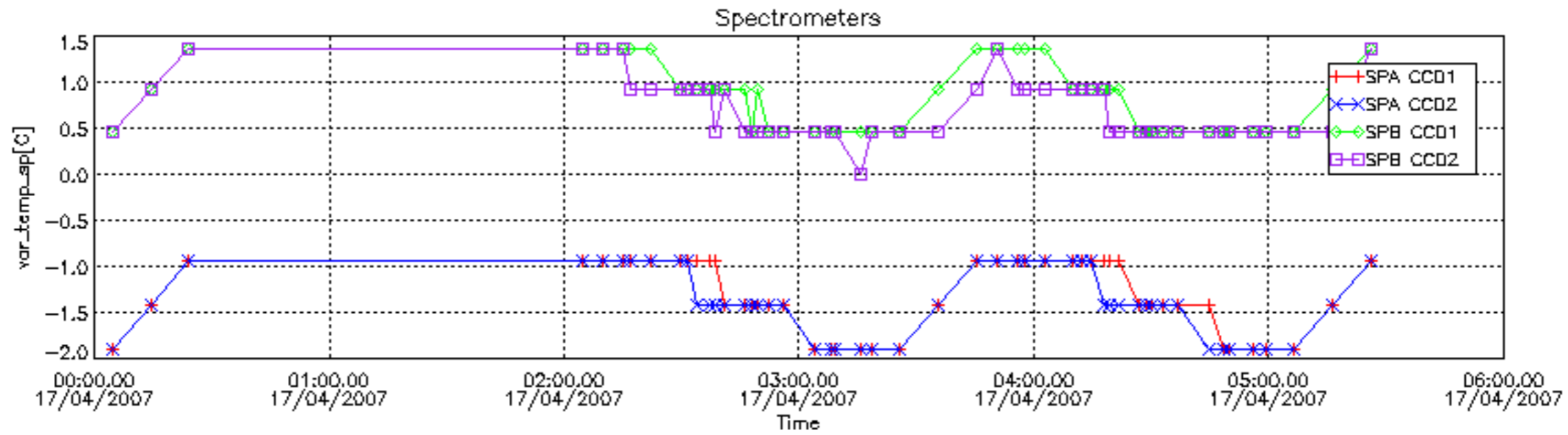
### 8. Auxiliary Data Files used for the production reported in section 2.4

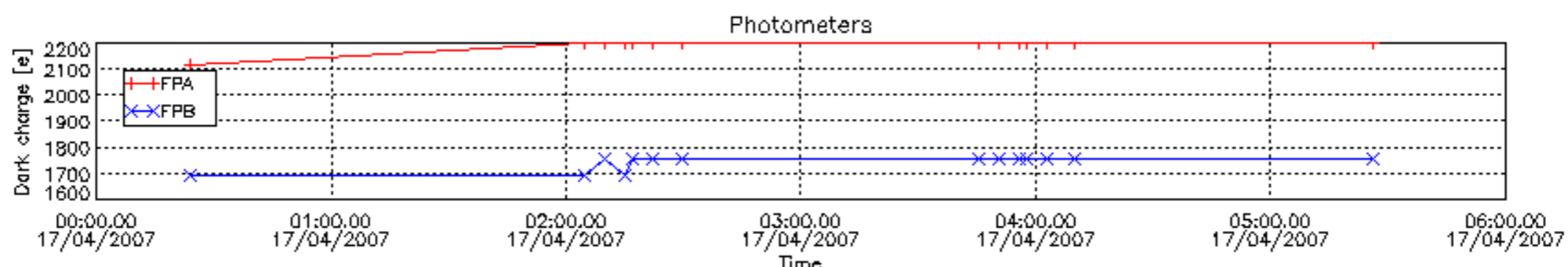
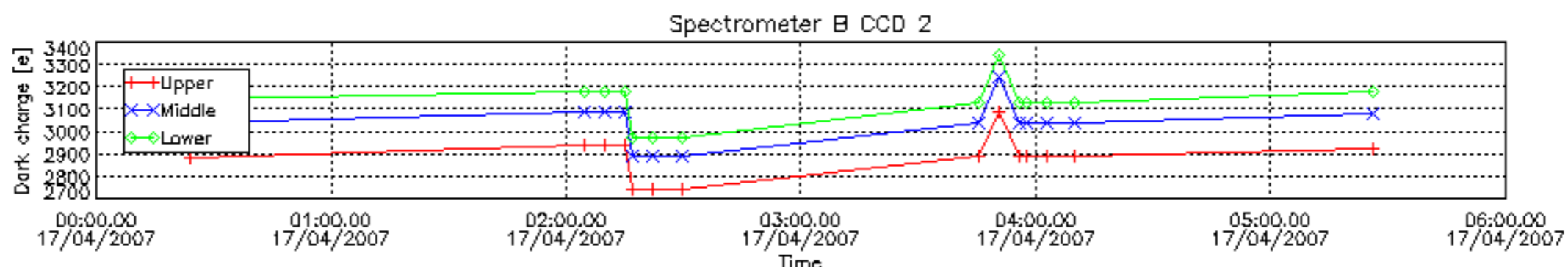
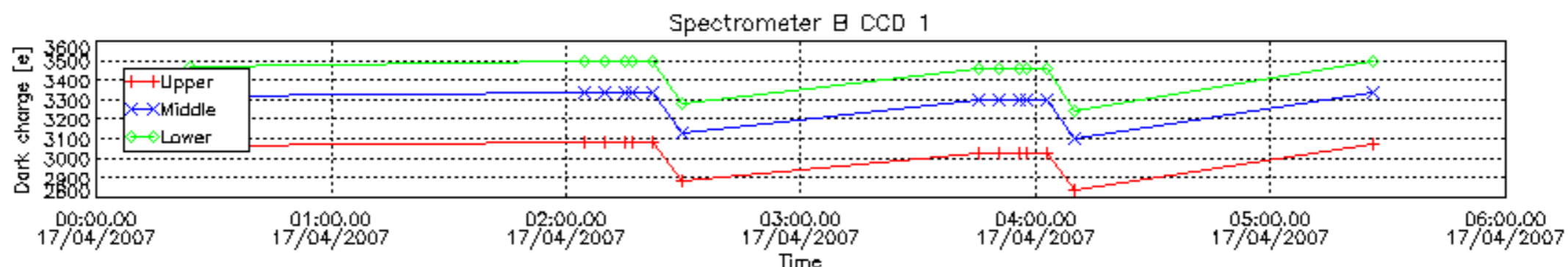
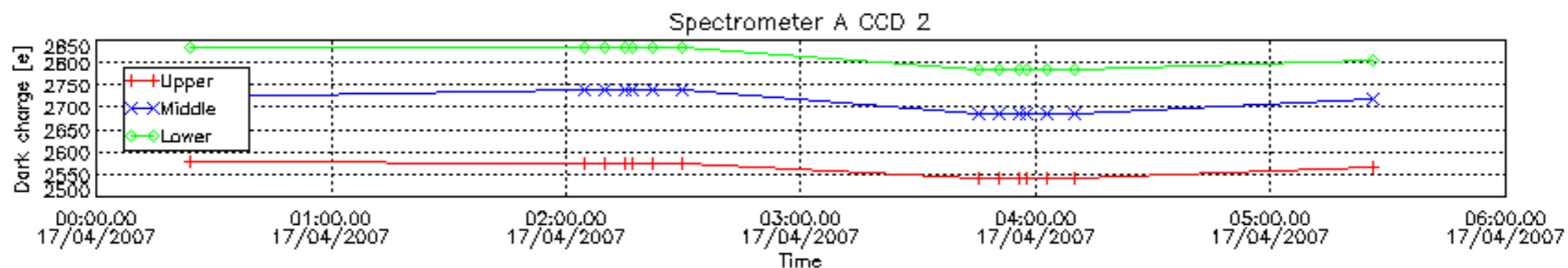
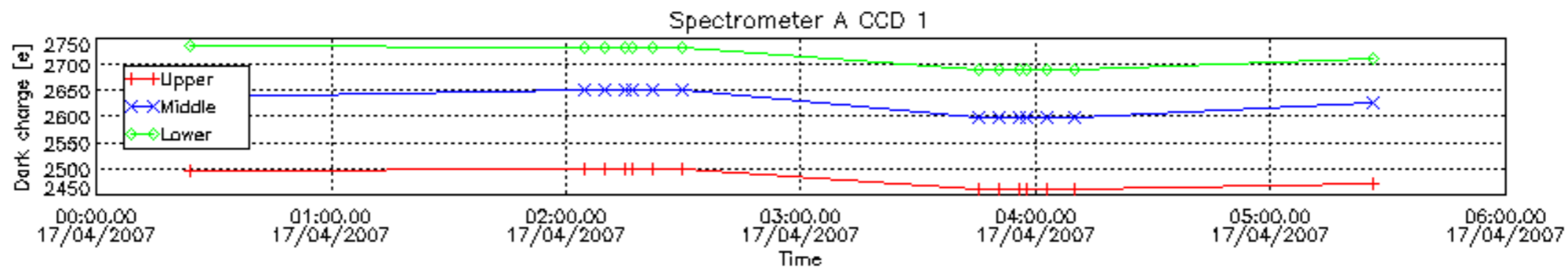
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-APR-2007 00:04:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070403_103751_20070402_000000_20100101_000000	1	17-APR-2007 00:04:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-APR-2007 00:04:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-APR-2007 00:04:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-APR-2007 00:04:31
ECMWF_FILE	AUX_ECF_AXNECM20070416_062112_20070416_210000_20070417_090000	1	17-APR-2007 00:04:31
ECMWF_FILE	AUX_ECF_AXNECM20070416_181112_20070417_030000_20070417_150000	25	17-APR-2007 03:25:42
OPTIONAL_ECMWF_FILE	MISSING	1	17-APR-2007 00:04:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070416_205547_000060572057_00200_26807_3298.N1	1	17-APR-2007 00:04:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070416_224203_000057382057_00201_26808_3299.N1	4	17-APR-2007 02:04:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070417_020357_000041442057_00203_26810_3300.N1	25	17-APR-2007 03:25:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070417_031820_000057382057_00204_26811_3301.N1	48	17-APR-2007 05:06:18

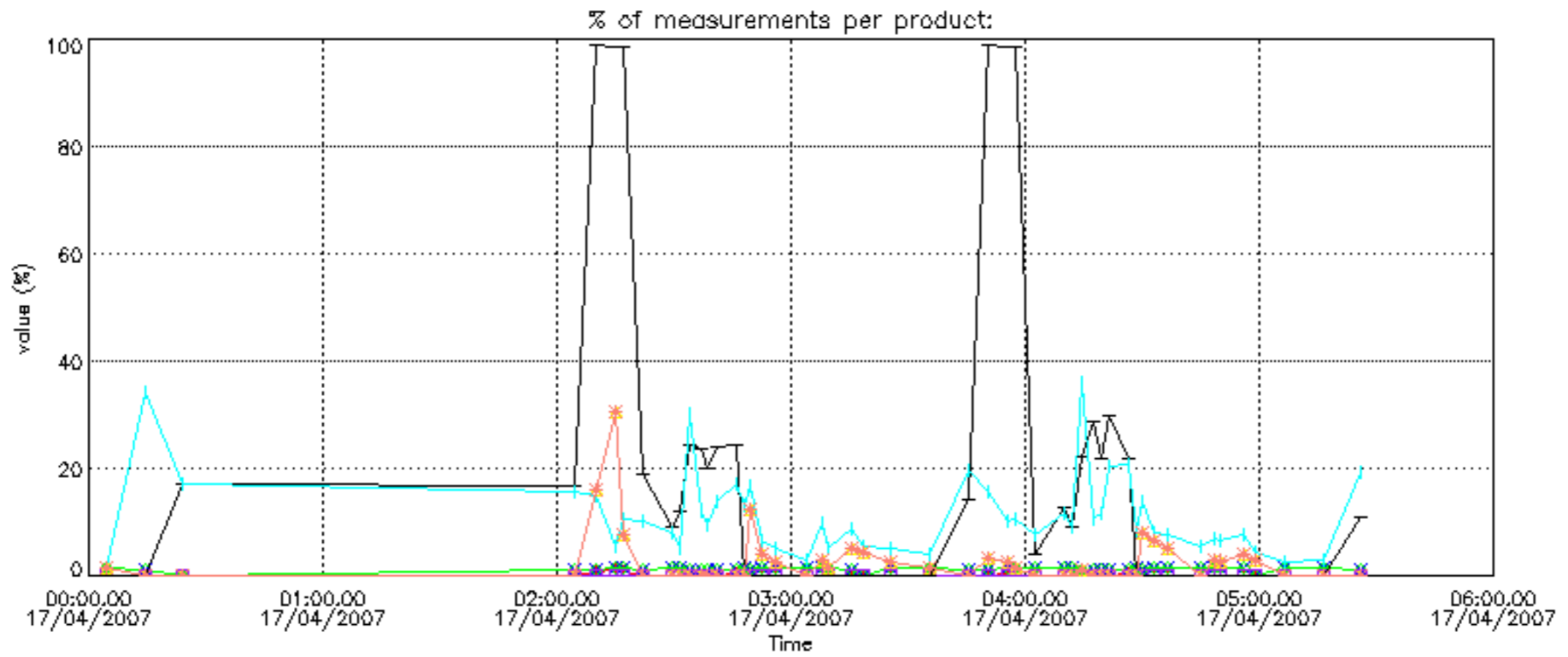




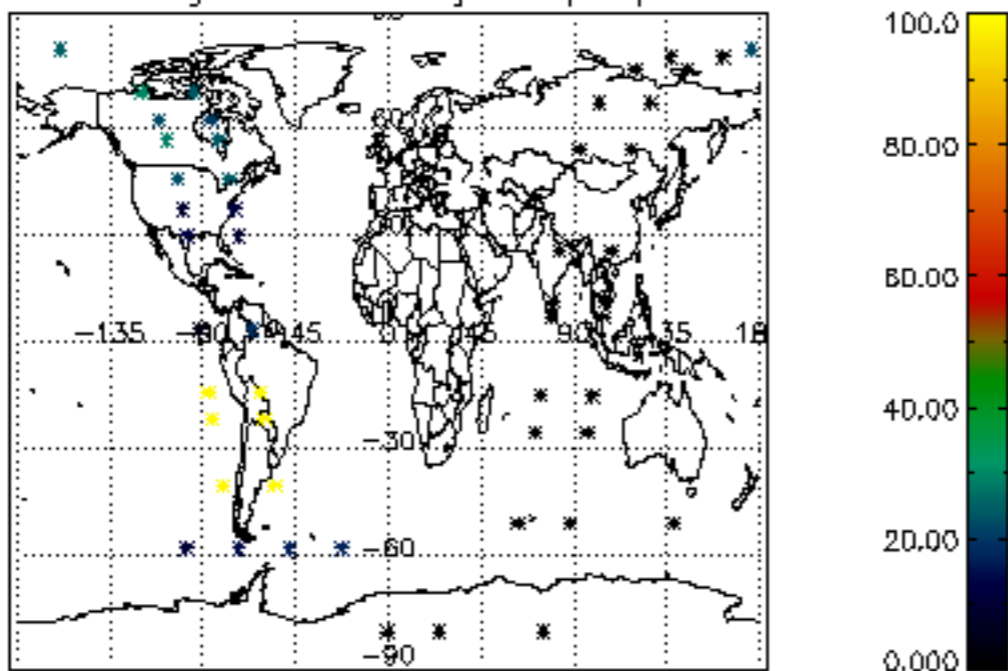




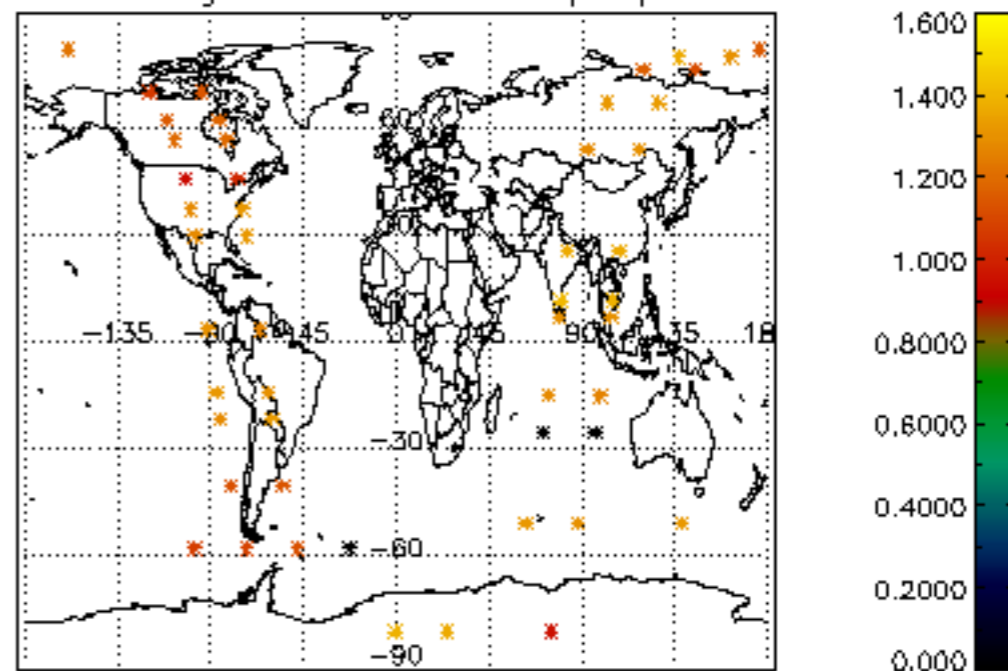




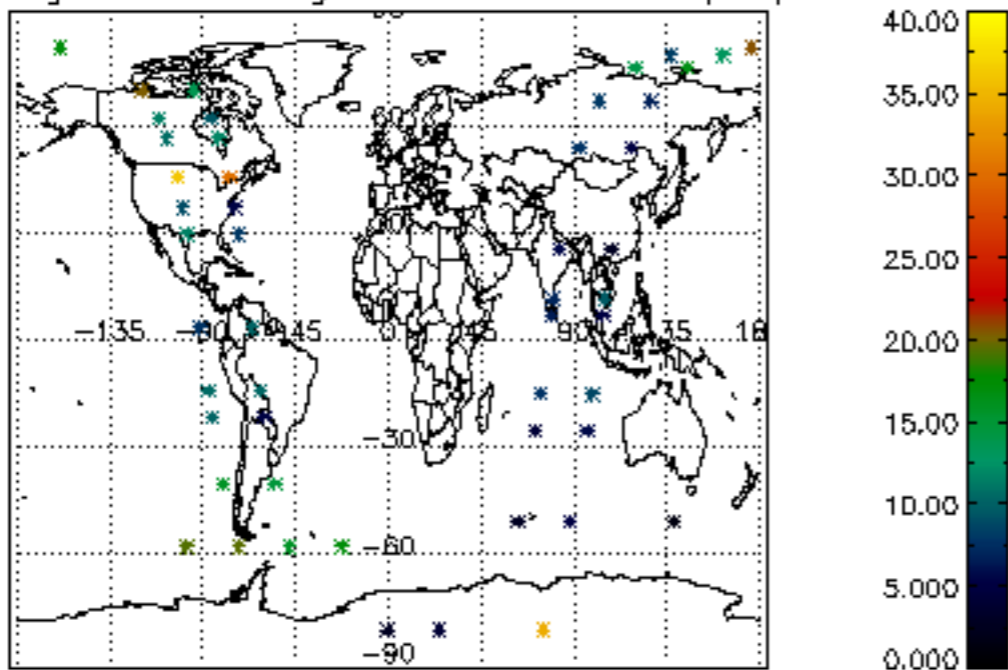
Percentage of cosmic ray hits per profile



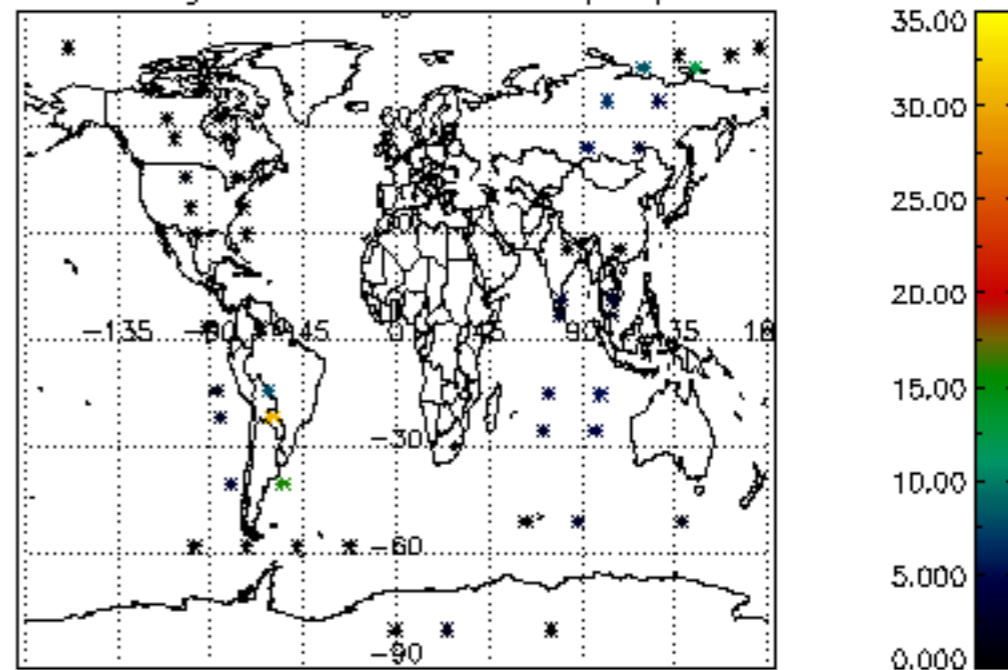
Percentage of datation errors per profile



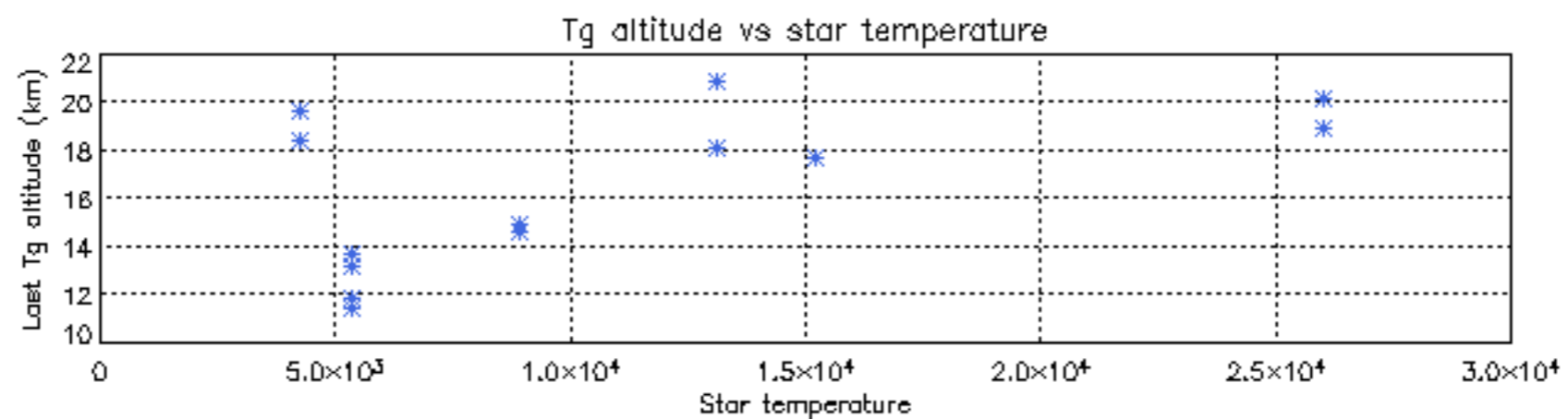
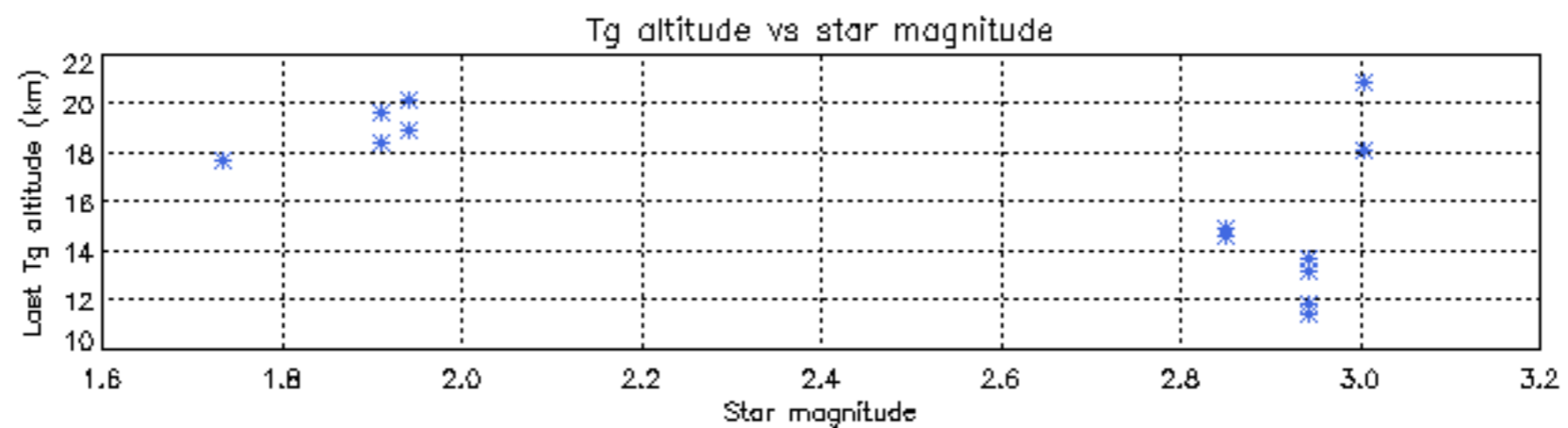
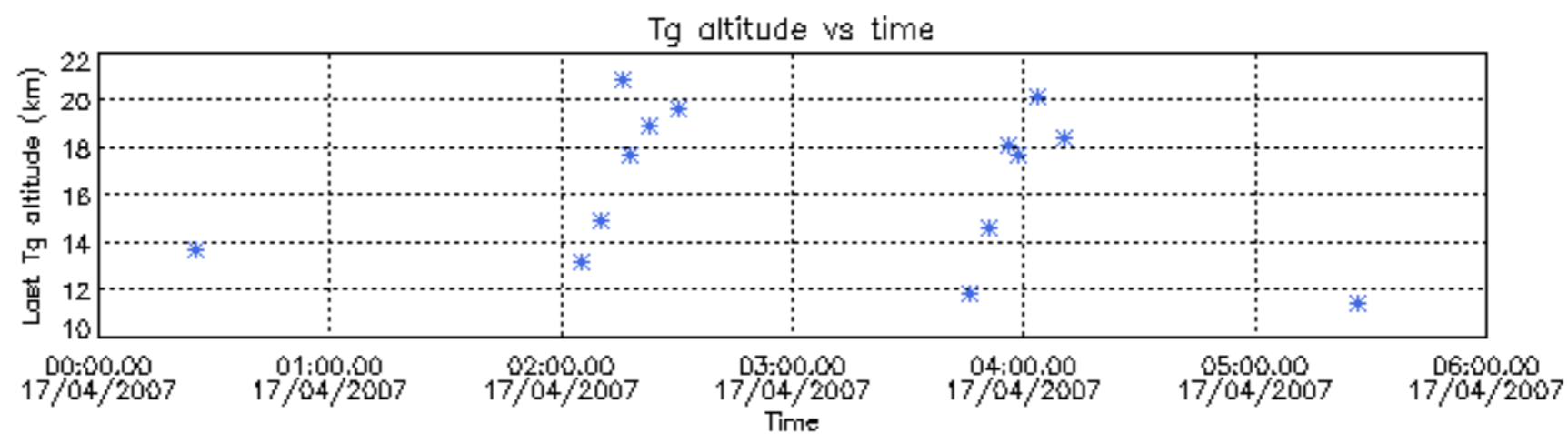
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

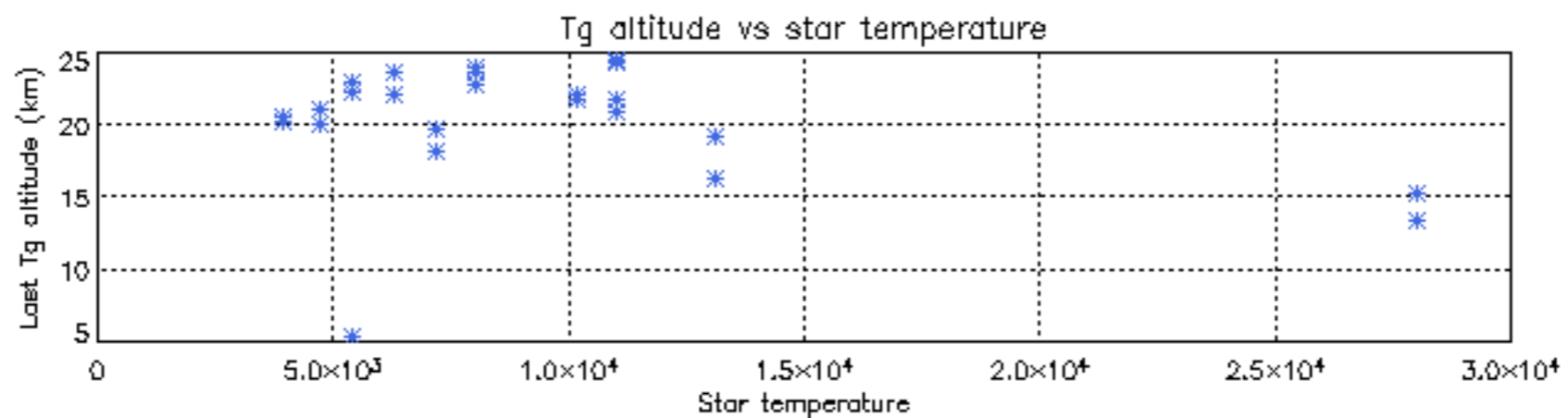
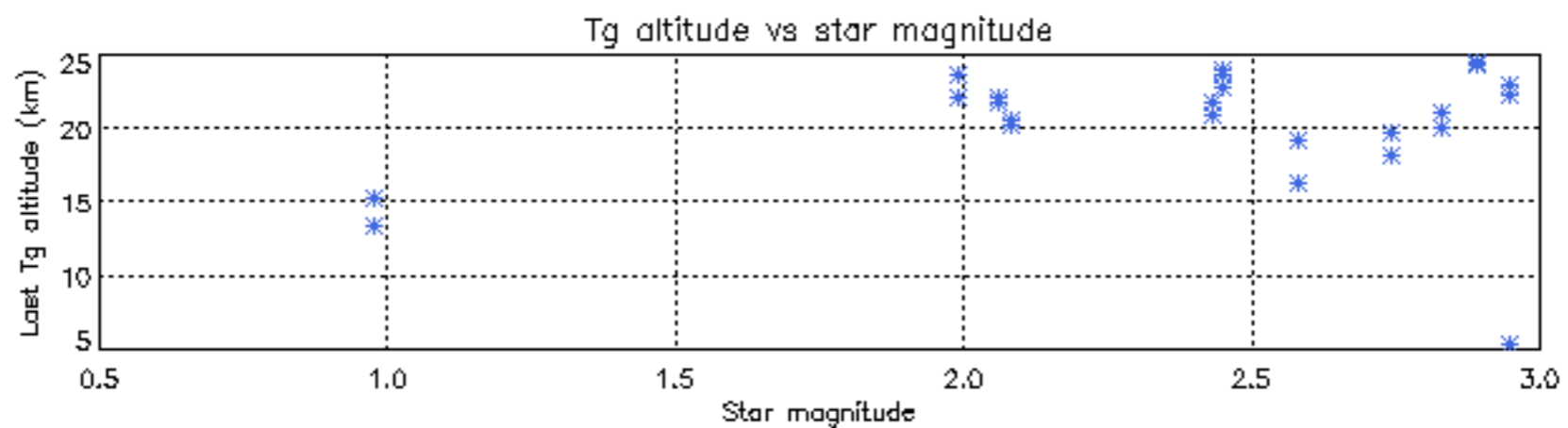
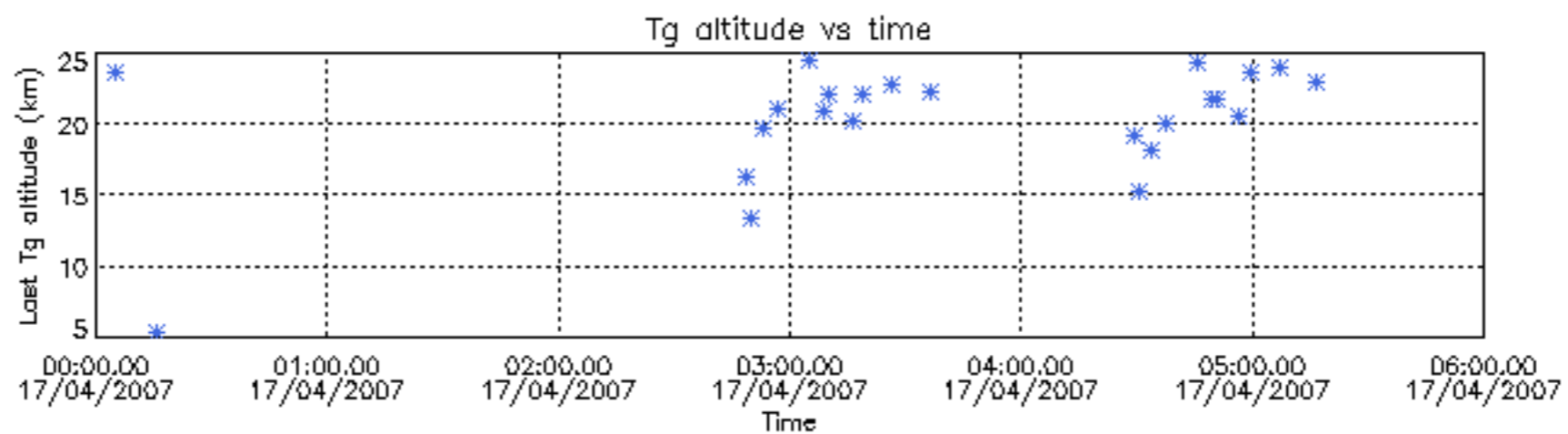


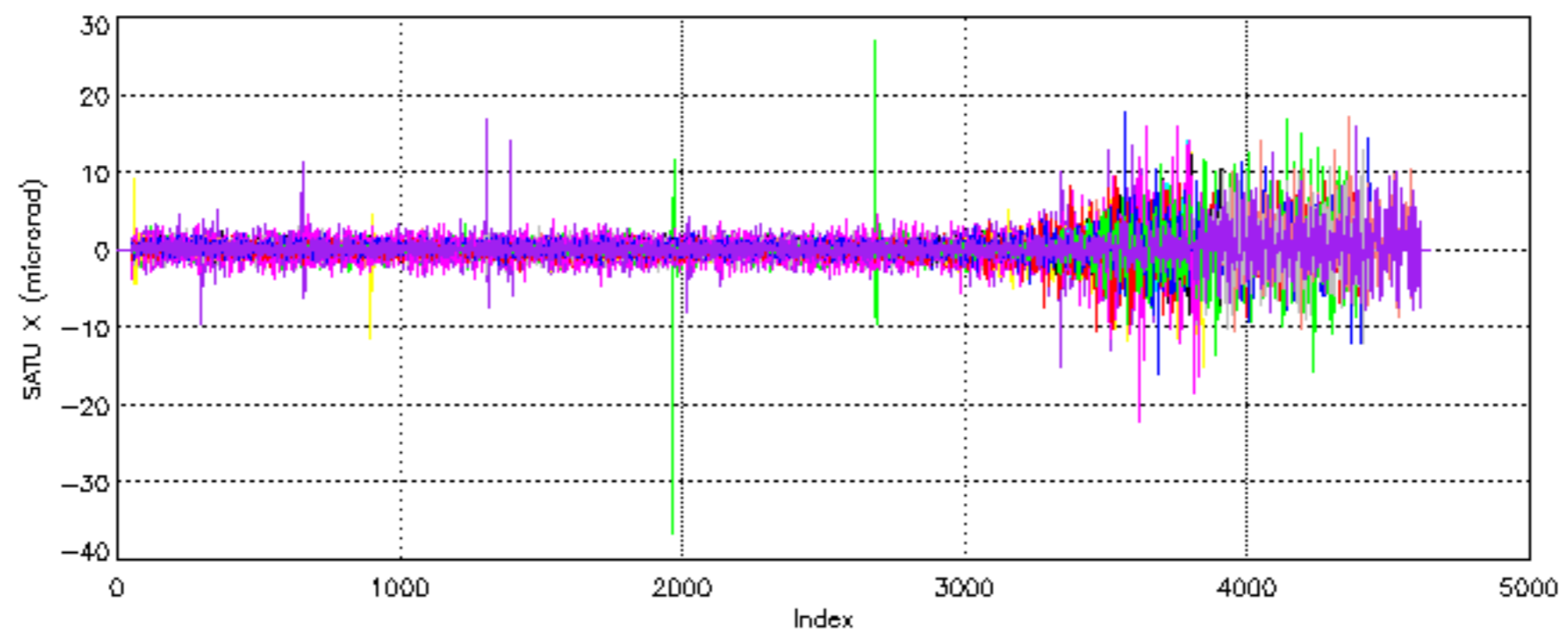
Tangent altitude at which the star is lost

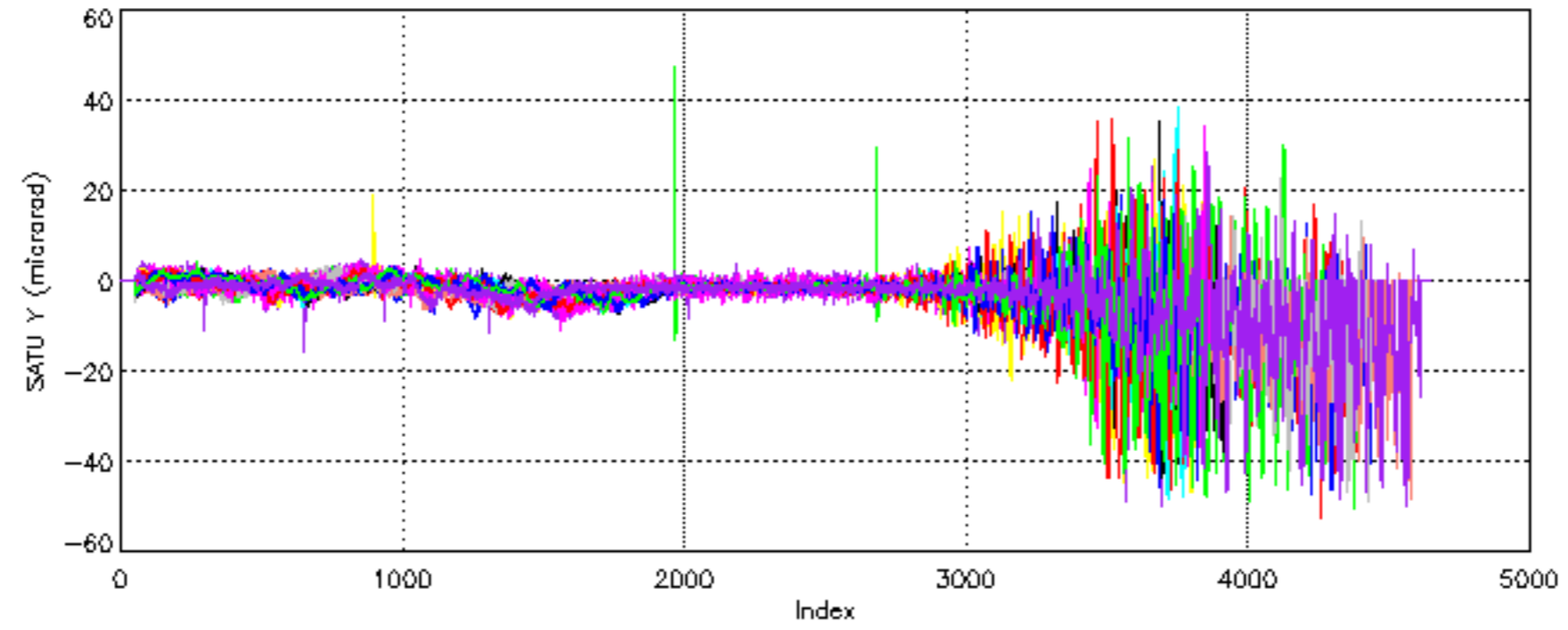


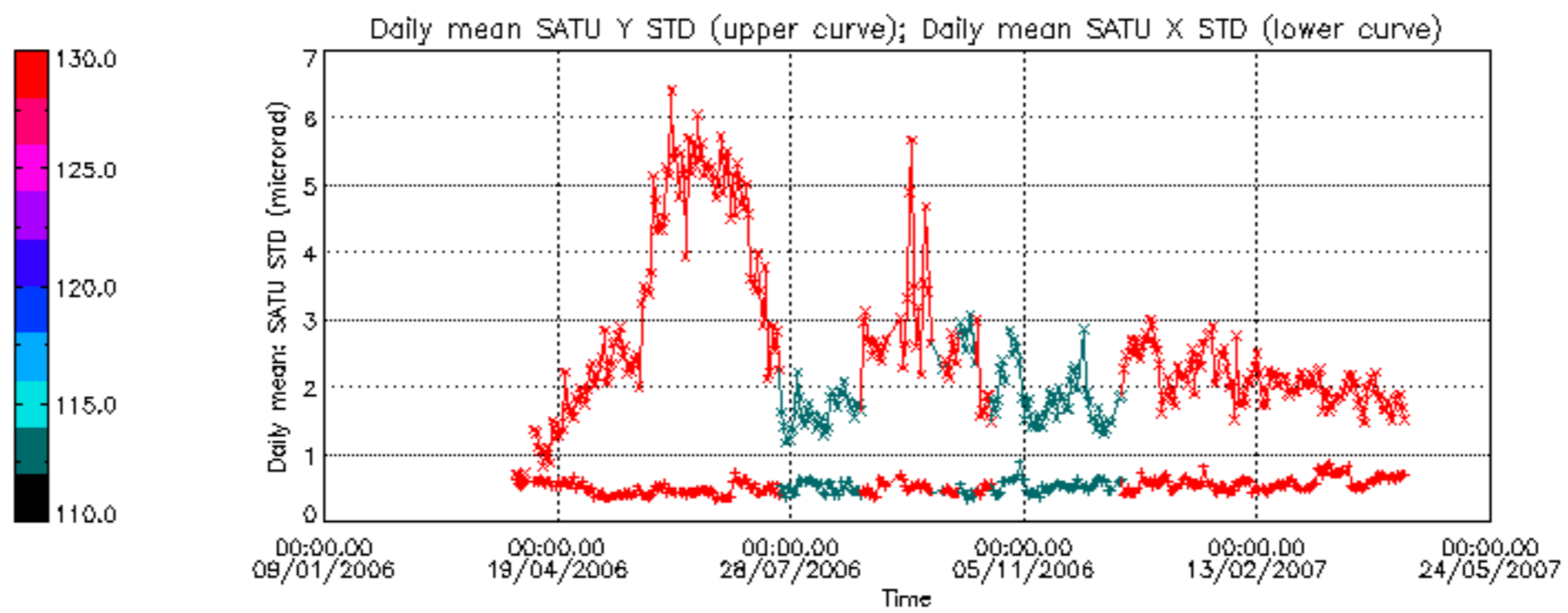


Tangent altitude at which the star is lost











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 2; -781.0; 01-APR-2007 00:30:19; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;26580  
 3; -173.2; 01-APR-2007 00:40:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26580  
 4; -47.0; 01-APR-2007 00:42:33; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;26580  
 5; 403.4; 01-APR-2007 00:50:04; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;26581  
 6; 513.5; 01-APR-2007 00:51:54; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;26581  
 7; 672.3; 01-APR-2007 00:54:33; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;26581  
 8; 841.3; 01-APR-2007 00:57:22; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;26581  
 9; 931.9; 01-APR-2007 00:58:52; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;26581  
 10; 1019.4; 01-APR-2007 01:00:20; Dark ; 37.5; 99; Del Cen ; 2.58; 26000;occ; 75; 0;26581  
 11; 1166.7; 01-APR-2007 01:02:47; Dark ; 44.0; 123; Tot Cen ; 2.75; 10200;occ; 88; 0;26581  
 12; 1459.3; 01-APR-2007 01:07:40; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;26581  
 13; 1577.7; 01-APR-2007 01:09:38; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;26581  
 14; 2161.6; 01-APR-2007 01:19:22; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;26581  
 15; 2257.3; 01-APR-2007 01:20:58; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;26581  
 16; 2666.9; 01-APR-2007 01:27:47; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;26581  
 17; 2849.8; 01-APR-2007 01:30:50; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;26581  
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 19; 3339.8; 01-APR-2007 01:39:00; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;26581  
 20; 3440.0; 01-APR-2007 01:40:40; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26581  
 21; 3902.5; 01-APR-2007 01:48:23; Bright; 52.0; 89; 5Alp Cep ; 2.45; 8000;occ; 104; 0;26581  
 22; 4825.9; 01-APR-2007 02:03:46; Dark ; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;26581

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 3; -172.8; 01-APR-2007 02:21:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26581  
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 5; 403.9; 01-APR-2007 02:30:40; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;26582  
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 7; 672.8; 01-APR-2007 02:35:09; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;26582  
 8; 841.6; 01-APR-2007 02:37:58; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;26582  
 9; 932.5; 01-APR-2007 02:39:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;26582  
 10; 1019.7; 01-APR-2007 02:40:56; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;26582  
 11; 1167.1; 01-APR-2007 02:43:23; Dark ; 43.5; 123; Tot Cen ; 2.75; 10200;occ; 87; 0;26582  
 12; 1459.5; 01-APR-2007 02:48:16; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;26582  
 13; 1577.9; 01-APR-2007 02:50:14; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;26582  
 14; 2161.5; 01-APR-2007 02:59:58; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;26582  
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 16; 2666.9; 01-APR-2007 03:08:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;26582  
 17; 2849.7; 01-APR-2007 03:11:26; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;26582  
 18; 2958.5; 01-APR-2007 03:13:15; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;26582  
 19; 3339.5; 01-APR-2007 03:19:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;26582  
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 7; 404.4; 01-APR-2007 04:11:16; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;26583  
 8; 514.8; 01-APR-2007 04:13:07; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;26583  
 9; 673.4; 01-APR-2007 04:15:45; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;26583  
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 20; 2958.5; 01-APR-2007 04:53:51; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;26583  
 21; 3339.4; 01-APR-2007 05:00:11; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;26583  
 22; 3440.2; 01-APR-2007 05:01:52; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26583

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4; -780.0; 01-APR-2007 05:32:08; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;26583
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7; 404.7; 01-APR-2007 05:51:53; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;26584
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11; 933.7; 01-APR-2007 06:00:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;26584
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13; 1168.0; 01-APR-2007 06:04:36; Dark ; 43.5; 123; Iot Cen ; 2.75; 10200;occ; 87; 0;26584
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16; 2161.6; 01-APR-2007 06:21:10; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;26584
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4; 1579.2; 01-APR-2007 21:16:51; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;26593
5; 2160.4; 01-APR-2007 21:26:32; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;26593
6; 2257.4; 01-APR-2007 21:28:09; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;26593
7; 2666.0; 01-APR-2007 21:34:57; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;26593
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4; 408.9; 01-APR-2007 22:37:56; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;26594
5; 520.2; 01-APR-2007 22:39:47; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;26594
6; 678.4; 01-APR-2007 22:42:26; Dark ; 39.5; 4; Alp1Cen ; -0.01; 5800;occ; 79; 0;26594
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6; 2666.3; 01-APR-2007 18:13:46; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;26591
7; 2847.5; 01-APR-2007 18:16:47; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;26591
8; 2957.9; 01-APR-2007 18:18:37; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;26591
9; 3336.7; 01-APR-2007 18:24:56; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;26591
10; 3440.1; 01-APR-2007 18:26:40; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;26591
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13; 5104.4; 01-APR-2007 18:54:24; Dark ; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;26591
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17; 6444.1; 01-APR-2007 19:16:44; Dark ; 47.5; 43; Alp TrA ; 1.91; 4250;occ; 95; 0;26591
18; 6555.3; 01-APR-2007 19:18:35; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;26591
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3; 2257.4; 01-APR-2007 13:05:09; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;26588
4; 2666.6; 01-APR-2007 13:11:58; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;26588
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7; 3337.6; 01-APR-2007 13:23:09; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;26588
8; 3440.1; 01-APR-2007 13:24:52; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26588
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3; 1461.6; 01-APR-2007 19:34:17; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;26592
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5; 2160.5; 01-APR-2007 19:45:56; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;26592
6; 2257.3; 01-APR-2007 19:47:33; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;26592
7; 2666.2; 01-APR-2007 19:54:22; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;26592
8; 2847.4; 01-APR-2007 19:57:23; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;26592
9; 2957.8; 01-APR-2007 19:59:13; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;26592
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13; 4828.8; 01-APR-2007 20:30:24; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;26592
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15; 5258.7; 01-APR-2007 20:37:34; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;26592
16; 5867.4; 01-APR-2007 20:47:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26592
17; 5993.6; 01-APR-2007 20:49:49; Dark ; 36.5; 45; Alp Pav ; 1.94; 26000;occ; 73; 0;26592
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19; 6555.8; 01-APR-2007 20:59:11; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;26592
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3; 1467.2; 03-APR-2007 20:11:44; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;26621
4; 1583.3; 03-APR-2007 20:13:40; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;26621
5; 2158.1; 03-APR-2007 20:23:15; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;26621

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8; 2841.1; 03-APR-2007 20:34:38; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;26621  
9; 2956.6; 03-APR-2007 20:36:34; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;26621  
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5; 534.7; 03-APR-2007 21:36:48; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;26622  
6; 691.2; 03-APR-2007 21:39:24; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;26622  
7; 861.2; 03-APR-2007 21:42:14; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;26622  
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14; 2664.9; 03-APR-2007 22:12:18; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;26622  
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16; 2956.6; 03-APR-2007 22:17:09; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;26622  
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5; 535.1; 03-APR-2007 23:17:24; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;26623  
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7; 862.0; 03-APR-2007 23:22:51; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;26623  
8; 1026.0; 03-APR-2007 23:25:35; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;26623  
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11; 1583.5; 03-APR-2007 23:34:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;26623  
12; 2157.8; 03-APR-2007 23:44:26; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;26623  
13; 2257.8; 03-APR-2007 23:46:06; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;26623  
14; 2664.8; 03-APR-2007 23:52:54; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;26623  
15; 2840.7; 03-APR-2007 23:55:49; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;26623  
16; 2956.5; 03-APR-2007 23:57:45; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;26623  
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4; 851.4; 03-APR-2007 08:17:17; Dark ; 38.0; 20; Bet Cru ; 1.25; 30000;occ; 76; 0;26614  
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6; 1180.1; 03-APR-2007 08:22:46; Dark ; 42.5; 123; Tot Cen ; 2.75; 10200;occ; 85; 0;26614  
7; 1466.6; 03-APR-2007 08:27:32; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;26614

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5; 1024.0; 03-APR-2007 08:20:10; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;26614
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7; 1466.6; 03-APR-2007 08:27:32; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;26614
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13; 5266.5; 03-APR-2007 09:30:52; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;26614
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14; 4995.5; 05-APR-2007 20:07:18; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;26649  
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16; 5279.7; 05-APR-2007 20:12:02; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;26649  
17; 5891.9; 05-APR-2007 20:22:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;26649  
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19; 6469.4; 05-APR-2007 20:31:52; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;26649  
20; 6585.6; 05-APR-2007 20:33:48; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;26649  
21; 6740.5; 05-APR-2007 20:36:23; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;26649  
22; 6914.6; 05-APR-2007 20:39:17; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;26649

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4; 434.7; 06-APR-2007 01:33:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;26653  
5; 551.2; 06-APR-2007 01:35:37; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;26653  
6; 705.9; 06-APR-2007 01:38:12; Dark ; 53.5; 4; Alp1Cen ; -0.01; 5800;occ; 107; 0;26653  
7; 880.3; 06-APR-2007 01:41:06; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;26653  
8; 1035.7; 06-APR-2007 01:43:42; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;26653  
9; 1194.0; 06-APR-2007 01:46:20; Dark ; 43.5; 123; Iot Cen ; 2.75; 10200;occ; 87; 0;26653  
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14; 2665.1; 06-APR-2007 02:10:51; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;26653  
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17; 3317.5; 06-APR-2007 02:21:44; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;26653  
18; 3442.0; 06-APR-2007 02:23:48; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;26653

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3; -1038.9; 06-APR-2007 02:49:43; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;26653  
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8; 435.3; 06-APR-2007 03:14:17; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;26654  
9; 551.9; 06-APR-2007 03:16:14; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;26654  
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13; 1194.6; 06-APR-2007 03:26:57; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;26654  
14; 1474.7; 06-APR-2007 03:31:37; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;26654  
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17; 2260.1; 06-APR-2007 03:44:42; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;26654  
18; 2665.4; 06-APR-2007 03:51:27; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;26654  
19; 2836.0; 06-APR-2007 03:54:18; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;26654  
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21; 3317.4; 06-APR-2007 04:02:19; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;26654  
22; 3442.2; 06-APR-2007 04:04:24; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;26654

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8; 435.7; 06-APR-2007 04:54:54; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;26655  
9; 552.4; 06-APR-2007 04:56:50; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;26655  
10; 706.9; 06-APR-2007 04:59:25; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;26655  
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14; 1474.7; 06-APR-2007 05:12:13; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;26655  
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17; 2260.2; 06-APR-2007 05:25:18; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;26655  
18; 2665.3; 06-APR-2007 05:32:03; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;26655  
19; 2836.0; 06-APR-2007 05:34:54; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;26655  
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21; 3317.1; 06-APR-2007 05:42:55; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;26655  
22; 3442.1; 06-APR-2007 05:45:00; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;26655

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3; 1198.1; 06-APR-2007 20:12:59; Dark ; 41.5; 123; Tot Cen ; 2.75; 10200;occ; 83; 0;26664  
4; 1476.8; 06-APR-2007 20:17:38; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;26664  
5; 1590.6; 06-APR-2007 20:19:32; Dark ; 40.0; 100; 4Gam Crv ; 2.58; 13100;occ; 80; 0;26664  
6; 2157.1; 06-APR-2007 20:28:58; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;26664  
7; 2261.0; 06-APR-2007 20:30:42; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;26664  
8; 2665.6; 06-APR-2007 20:37:27; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;26664  
9; 2834.6; 06-APR-2007 20:40:16; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;26664  
10; 2956.8; 06-APR-2007 20:42:18; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;26664  
11; 3314.3; 06-APR-2007 20:48:15; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;26664  
12; 3442.6; 06-APR-2007 20:50:24; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;26664  
13; 3898.0; 06-APR-2007 20:57:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;26664  
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16; 5135.7; 06-APR-2007 21:18:37; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;26664

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5; 440.3; 06-APR-2007 21:40:57; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;26665  
6; 557.6; 06-APR-2007 21:42:55; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;26665  
7; 711.6; 06-APR-2007 21:45:29; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;26665  
8; 887.5; 06-APR-2007 21:48:25; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;26665  
9; 1039.3; 06-APR-2007 21:50:56; Dark ; 38.0; 64; Gam Cen ; 2.20; 10600;occ; 76; 0;26665



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12; 1590.8; 06-APR-2007 22:00:08; Dark ; 37.5; 100; 4Gam Crv ; 2.58; 13100;occ; 75; 0;26665
13; 2157.0; 06-APR-2007 22:09:34; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;26665
14; 2261.1; 06-APR-2007 22:11:18; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;26665
15; 2665.6; 06-APR-2007 22:18:03; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;26665
16; 2834.5; 06-APR-2007 22:20:52; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;26665
17; 2956.8; 06-APR-2007 22:22:54; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;26665
18; 3314.1; 06-APR-2007 22:28:51; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;26665
19; 3442.4; 06-APR-2007 22:31:00; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;26665
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10; 1477.1; 06-APR-2007 23:38:50; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;26666
11; 1590.7; 06-APR-2007 23:40:44; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;26666
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15; 2834.2; 07-APR-2007 00:01:27; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;26666
16; 2928.9; 07-APR-2007 00:03:02; Bright; 25.0; 32; 77Eps UMa ; 1.76; 11000;occ; 50; 0;26666
17; 3313.7; 07-APR-2007 00:09:27; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;26666
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3; 1197.8; 06-APR-2007 18:32:23; Dark ; 41.5; 123; Tot Cen ; 2.75; 10200;occ; 83; 0;26663  
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17; 5285.8; 06-APR-2007 19:40:31; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;26663  
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22; 6747.0; 06-APR-2007 20:04:52; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;26663  
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 25; 3443.7; 22-APR-2007 05:42:13; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;26884

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