

# GOMOS Daily Report 19-AUG-2007

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	21AUG2007 10:29:29
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

## 2. Summary of products arrived in PCF (Product Control Facility)

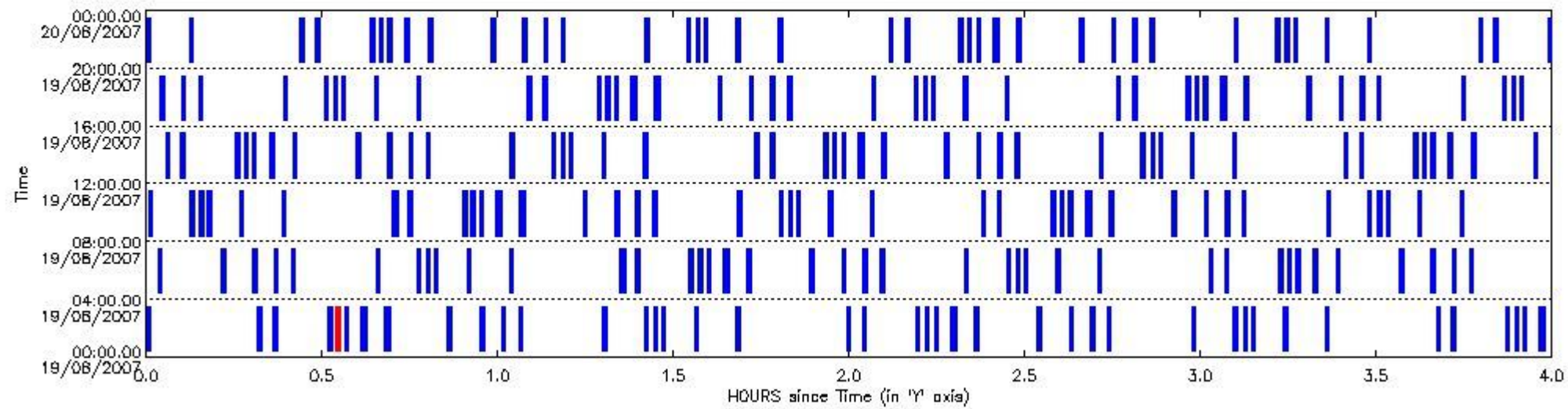
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



### 2.3 Summary of missing occultations (red segments in previous plot)

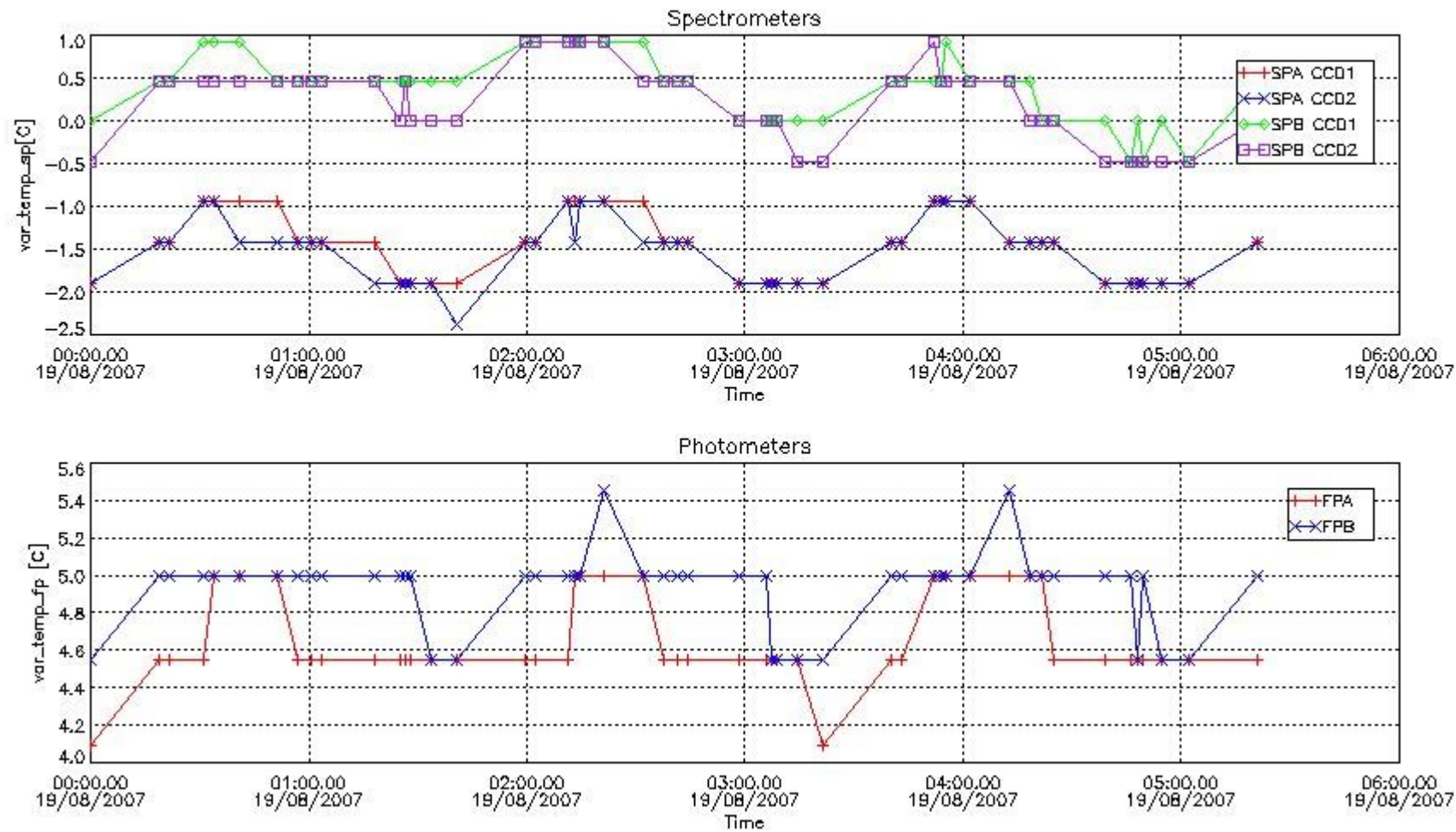
UTC start time	Star name	Star ID	Orbit
19-AUG-2007 00:32:19	240mi2CMa	179	28584

### 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_1PNPDE20070819_000008_000000352060_00474_28584_2720.N1	19-AUG-2007 00:00:08	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28584	No
2	GOM_TRA_1PNPDE20070819_001902_000000392060_00474_28584_2721.N1	19-AUG-2007 00:19:02	Bright	39.000	170	27Eps Gem	3.0000	9700.0	78	28584	No
3	GOM_TRA_1PNPDE20070819_002141_000000452060_00474_28584_2722.N1	19-AUG-2007 00:21:41	Twilight_stray	44.500	44	24Gam Gem	1.9280	11000.	89	28584	No
4	GOM_TRA_1PNPDE20070819_003052_000000472060_00474_28584_2827.N1	19-AUG-2007 00:30:52	Dark	47.000	1	9Alp CMa	-1.4400	11000.	94	28584	No
5	GOM_TRA_1PNPDE20070819_003354_000000402060_00474_28584_2828.N1	19-AUG-2007 00:33:54	Dark	39.500	23	21Eps CMa	1.5020	26000.	79	28584	No
6	GOM_TRA_1PNPDE20070819_004044_000000492060_00474_28584_2829.N1	19-AUG-2007 00:40:44	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	28584	No
7	GOM_TRA_1PNPDE20070819_005127_000000492060_00475_28585_2830.N1	19-AUG-2007 00:51:27	Dark	48.500	9	Alp Eri	0.45300	24000.	97	28585	No
8	GOM_TRA_1PNPDE20070819_005659_000000422060_00475_28585_2831.N1	19-AUG-2007 00:56:59	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28585	No
9	GOM_TRA_1PNPDE20070819_010034_000000392060_00475_28585_2832.N1	19-AUG-2007 01:00:34	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	28585	No
10	GOM_TRA_1PNPDE20070819_010331_000000412060_00475_28585_2833.N1	19-AUG-2007 01:03:31	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	28585	No

11	GOM_TRA_1PNPDE20070819_011756_000000352060_00475_28585_2834.N1	19-AUG-2007 01:17:56	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	28585	No
12	GOM_TRA_1PNPDE20070819_012503_000000372060_00475_28585_2835.N1	19-AUG-2007 01:25:03	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	28585	No
13	GOM_TRA_1PNPDE20070819_012641_000000382060_00475_28585_2836.N1	19-AUG-2007 01:26:41	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	28585	No
14	GOM_TRA_1PNPDE20070819_012803_000000342060_00475_28585_2837.N1	19-AUG-2007 01:28:03	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28585	No
15	GOM_TRA_1PNPDE20070819_013334_000000342060_00475_28585_2838.N1	19-AUG-2007 01:33:34	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	28585	No
16	GOM_TRA_1PNPDE20070819_014044_000000362060_00475_28585_2839.N1	19-AUG-2007 01:40:44	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28585	No
17	GOM_TRA_1PNPDE20070819_015938_000000392060_00475_28585_2840.N1	19-AUG-2007 01:59:38	Bright	38.500	170	27Eps Gem	3.0000	9700.0	77	28585	No
18	GOM_TRA_1PNPDE20070819_020217_000000402060_00475_28585_2841.N1	19-AUG-2007 02:02:17	Twilight	39.500	44	24Gam Gem	1.9280	11000.	79	28585	No
19	GOM_TRA_1PNPDE20070819_021128_000000362060_00475_28585_2957.N1	19-AUG-2007 02:11:28	Dark	36.000	1	9Alp CMa	-1.4400	11000.	72	28585	No
20	GOM_TRA_1PNPDE20070819_021303_000000382060_00475_28585_2958.N1	19-AUG-2007 02:13:03	Dark	37.500	179	24Omi2CMa	3.0320	24000.	75	28585	No
21	GOM_TRA_1PNPDE20070819_021430_000000402060_00475_28585_2959.N1	19-AUG-2007 02:14:30	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	28585	No
22	GOM_TRA_1PNPDE20070819_022120_000000452060_00475_28585_2960.N1	19-AUG-2007 02:21:20	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	28585	No
23	GOM_TRA_1PNPDE20070819_023203_000000462060_00476_28586_2961.N1	19-AUG-2007 02:32:03	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28586	No
24	GOM_TRA_1PNPDE20070819_023735_000000422060_00476_28586_2962.N1	19-AUG-2007 02:37:35	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28586	No
25	GOM_TRA_1PNPDE20070819_024110_000000412060_00476_28586_2963.N1	19-AUG-2007 02:41:10	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	28586	No
26	GOM_TRA_1PNPDE20070819_024407_000000402060_00476_28586_2964.N1	19-AUG-2007 02:44:07	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	28586	No
27	GOM_TRA_1PNPDE20070819_025832_000000372060_00476_28586_2965.N1	19-AUG-2007 02:58:32	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28586	No
28	GOM_TRA_1PNPDE20070819_030539_000000362060_00476_28586_2966.N1	19-AUG-2007 03:05:39	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28586	No
29	GOM_TRA_1PNPDE20070819_030717_000000352060_00476_28586_2967.N1	19-AUG-2007 03:07:17	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	28586	No
30	GOM_TRA_1PNPDE20070819_030839_000000342060_00476_28586_2968.N1	19-AUG-2007 03:08:39	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28586	No
31	GOM_TRA_1PNPDE20070819_031410_000000382060_00476_28586_2969.N1	19-AUG-2007 03:14:10	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	28586	No
32	GOM_TRA_1PNPDE20070819_032120_000000332060_00476_28586_2970.N1	19-AUG-2007 03:21:20	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28586	No
33	GOM_TRA_1PNPDE20070819_034014_000000382060_00476_28586_3107.N1	19-AUG-2007 03:40:14	Bright	38.000	170	27Eps Gem	3.0000	9700.0	76	28586	No
34	GOM_TRA_1PNPDE20070819_034254_000000422060_00476_28586_3108.N1	19-AUG-2007 03:42:54	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	28586	No
35	GOM_TRA_1PNPDE20070819_035204_000000452060_00476_28586_3109.N1	19-AUG-2007 03:52:04	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	28586	No
36	GOM_TRA_1PNPDE20070819_035339_000000382060_00476_28586_3110.N1	19-AUG-2007 03:53:39	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	28586	No
37	GOM_TRA_1PNPDE20070819_035506_000000392060_00476_28586_3111.N1	19-AUG-2007 03:55:06	Dark	38.500	23	21Eps CMa	1.5020	26000.	77	28586	No
38	GOM_TRA_1PNPDE20070819_040157_000000432060_00476_28586_3112.N1	19-AUG-2007 04:01:57	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	28586	No
39	GOM_TRA_1PNPDE20070819_041240_000000482060_00477_28587_3113.N1	19-AUG-2007 04:12:40	Dark	48.000	9	Alp Eri	0.45300	24000.	96	28587	No
40	GOM_TRA_1PNPDE20070819_041812_000000452060_00477_28587_3114.N1	19-AUG-2007 04:18:12	Straylight	45.000	148	Alp Tuc	2.8780	4100.0	90	28587	No
41	GOM_TRA_1PNPDE20070819_042147_000000432060_00477_28587_3115.N1	19-AUG-2007 04:21:47	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	28587	No
42	GOM_TRA_1PNPDE20070819_042444_000000382060_00477_28587_3116.N1	19-AUG-2007 04:24:44	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	28587	No
43	GOM_TRA_1PNPDE20070819_043909_000000372060_00477_28587_3117.N1	19-AUG-2007 04:39:09	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28587	No
44	GOM_TRA_1PNPDE20070819_044615_000000392060_00477_28587_3118.N1	19-AUG-2007 04:46:15	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	28587	No
45	GOM_TRA_1PNPDE20070819_044753_000000372060_00477_28587_3119.N1	19-AUG-2007 04:47:53	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	28587	No
46	GOM_TRA_1PNPDE20070819_044915_000000352060_00477_28587_3120.N1	19-AUG-2007 04:49:15	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	28587	No
47	GOM_TRA_1PNPDE20070819_045446_000000372060_00477_28587_3121.N1	19-AUG-2007 04:54:46	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	28587	No
48	GOM_TRA_1PNPDE20070819_050156_000000352060_00477_28587_3122.N1	19-AUG-2007 05:01:56	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28587	No
49	GOM_TRA_1PNPDE20070819_052051_000000552060_00477_28587_3268.N1	19-AUG-2007 05:20:51	Bright	54.500	170	27Eps Gem	3.0000	9700.0	109	28587	No

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



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

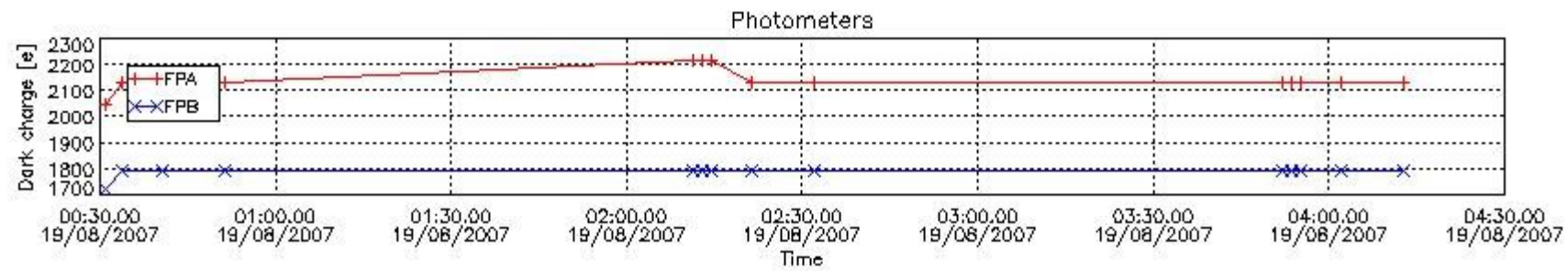
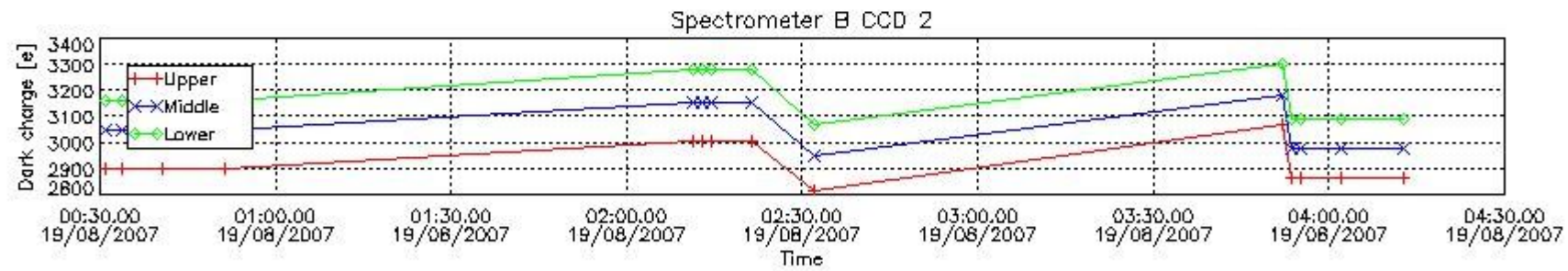
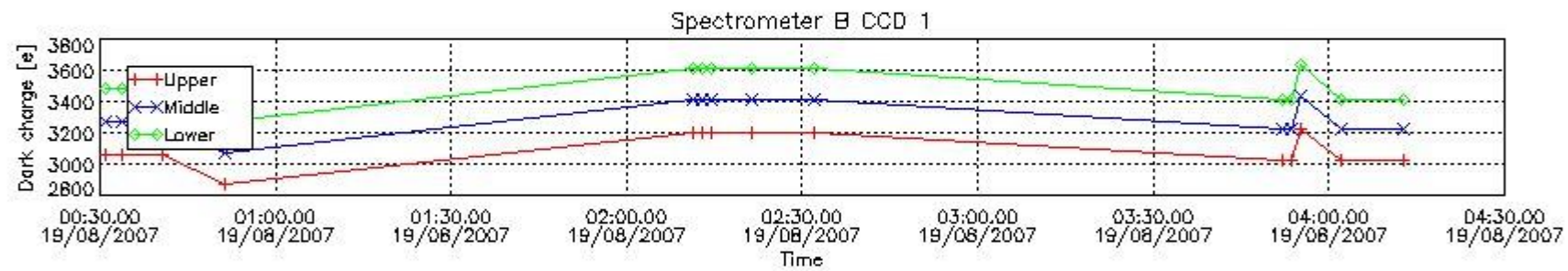
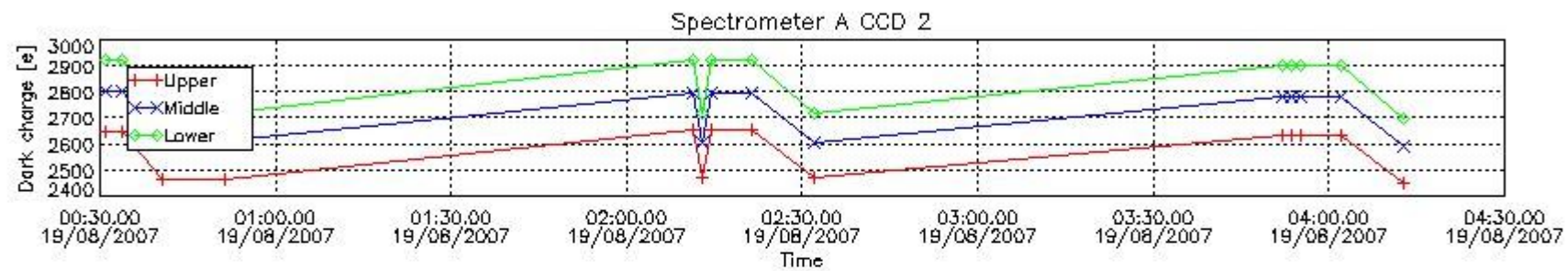
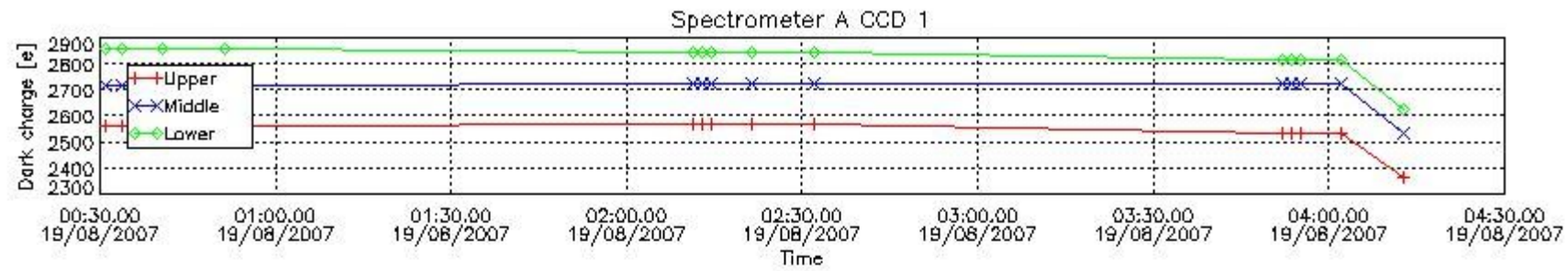
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





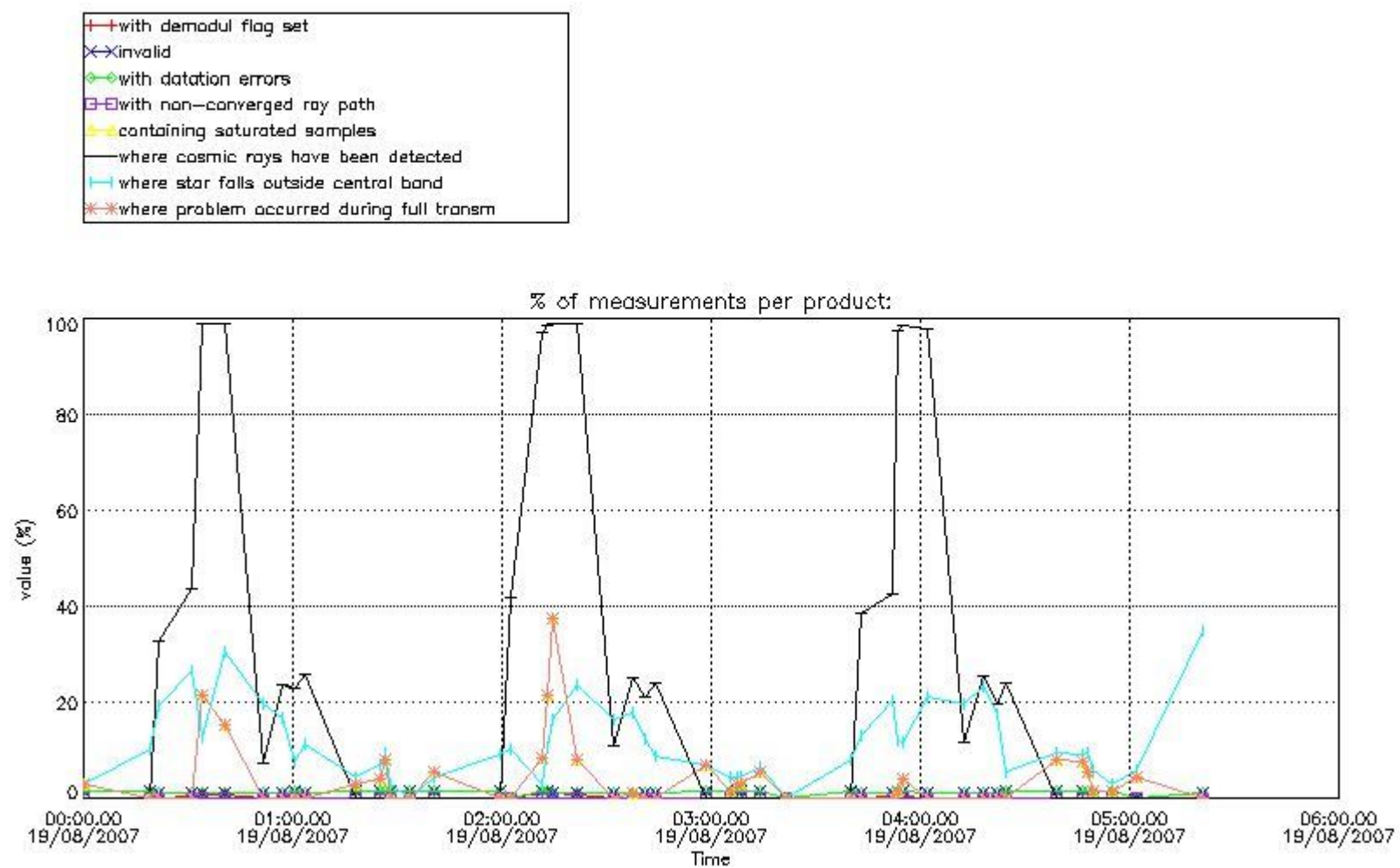
## 5. Demodulation flag and quality information monitoring

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:

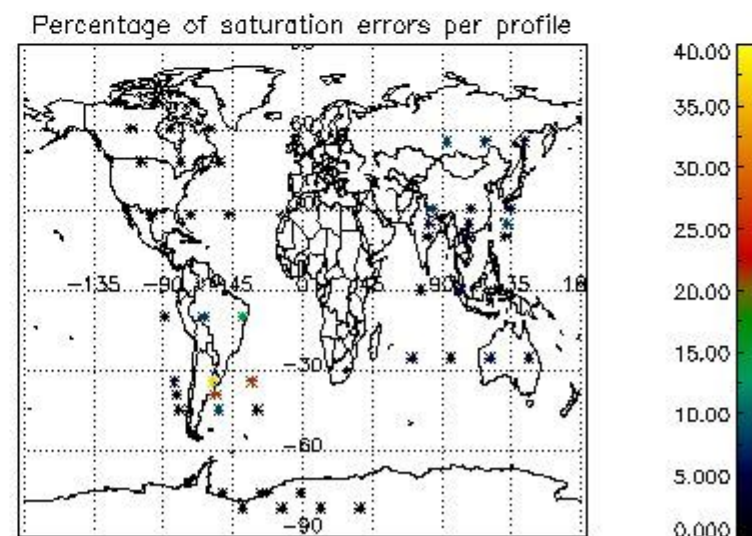
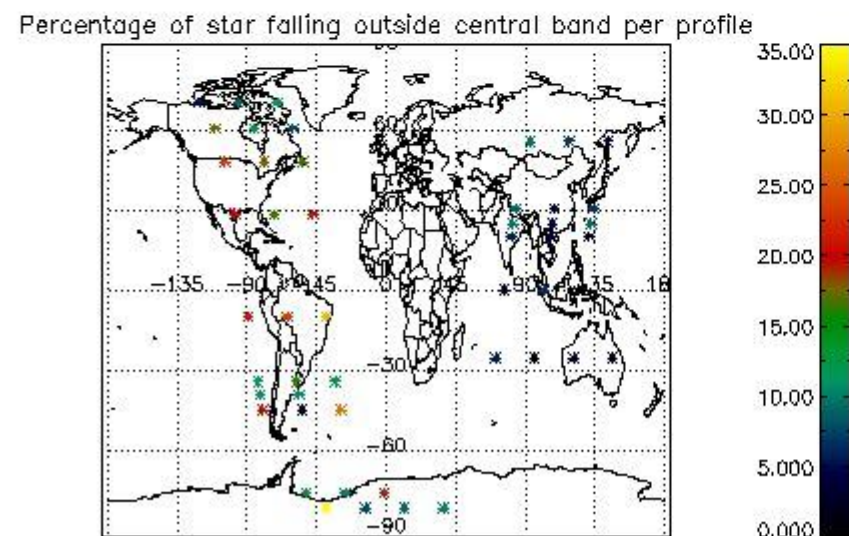
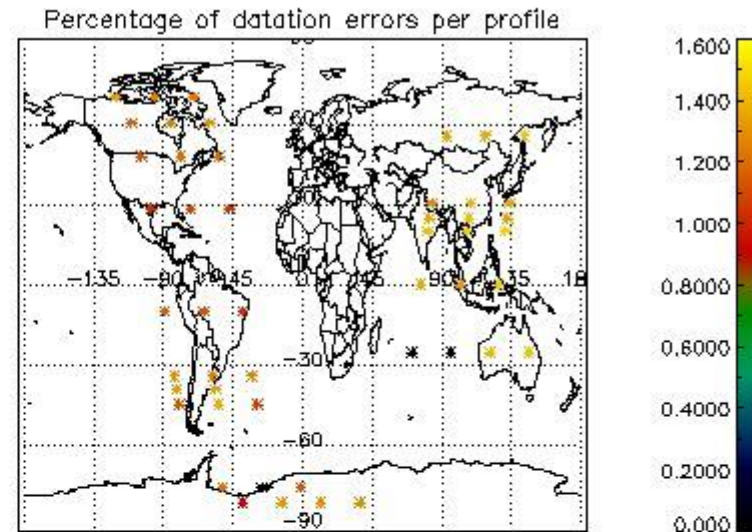
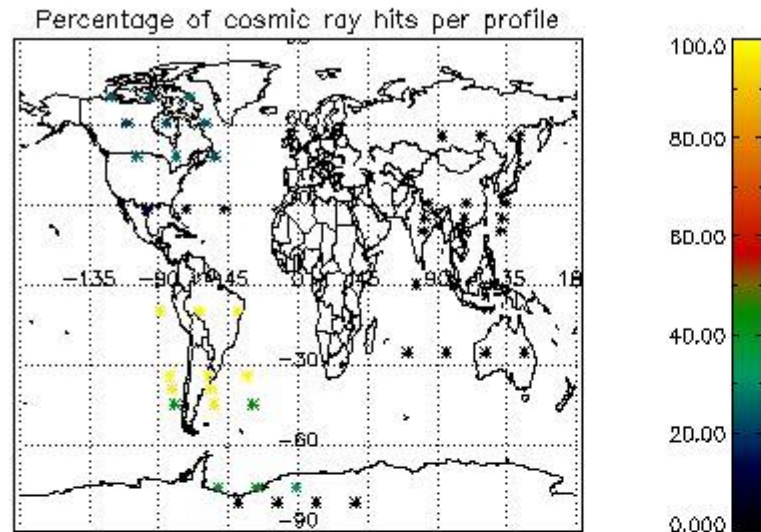
At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





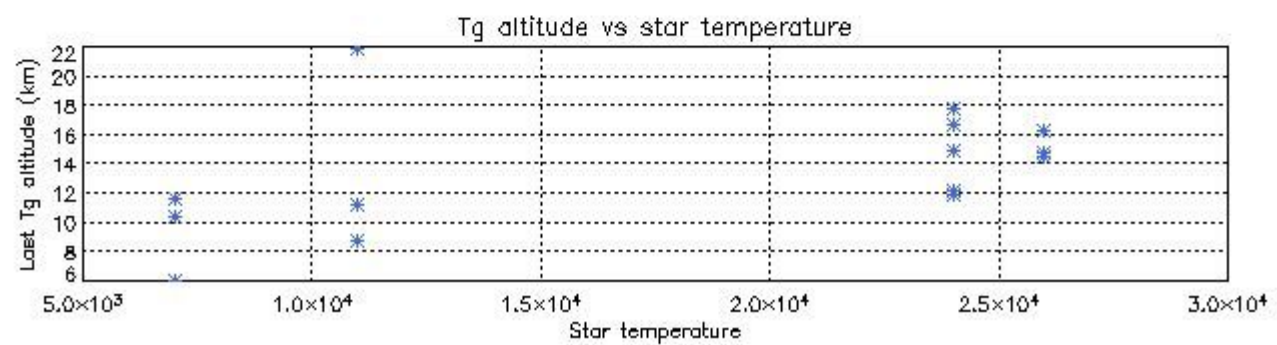
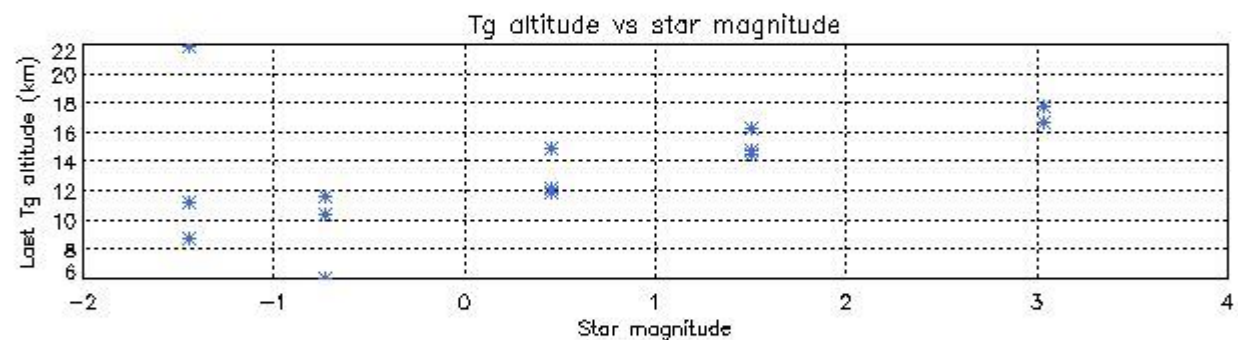
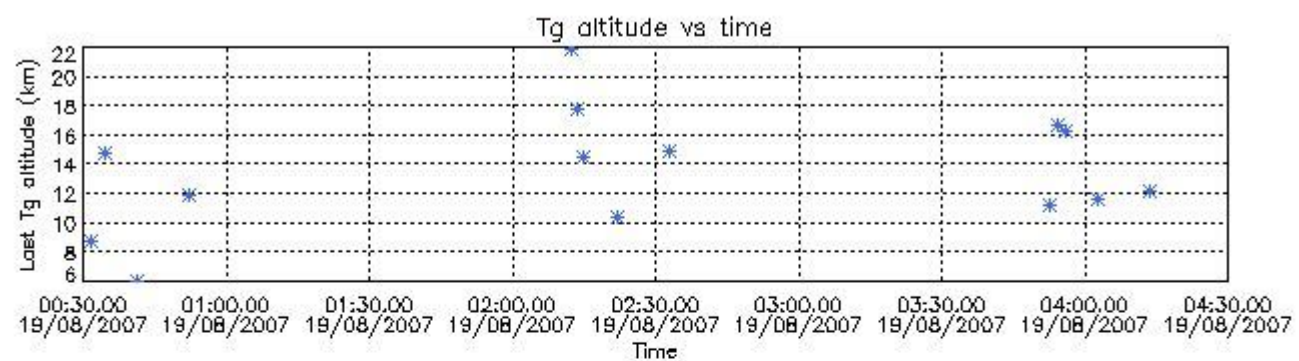
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.472	20.998	NaN
St. deviation:	4.0260	4.8314	NaN
Maximum:	21.859	29.289	NaN
Minimum:	6.0175	4.3902	NaN
Number of data:	14.000	23.000	NaN

### 6.2 Plot for DARK limb products

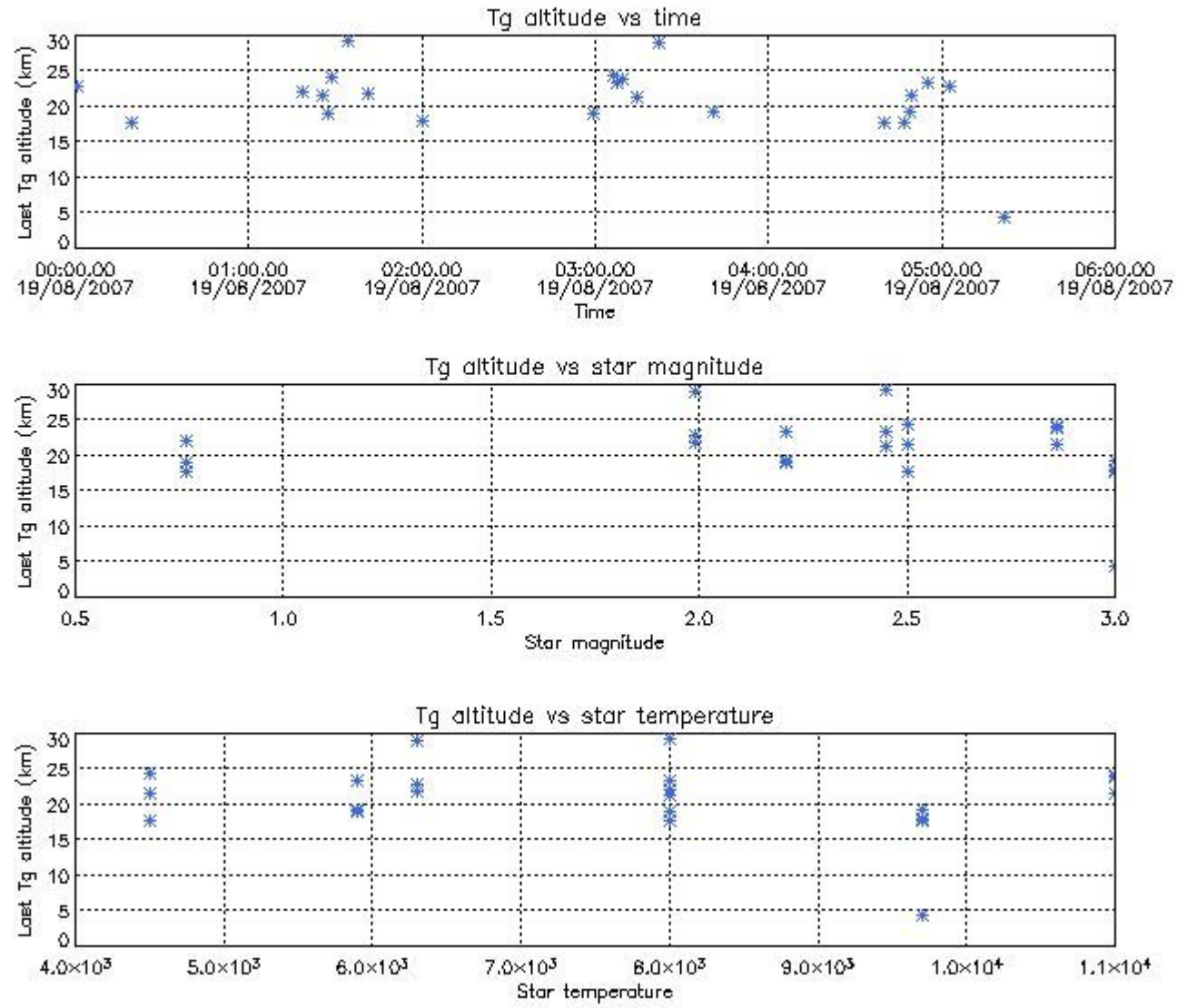
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

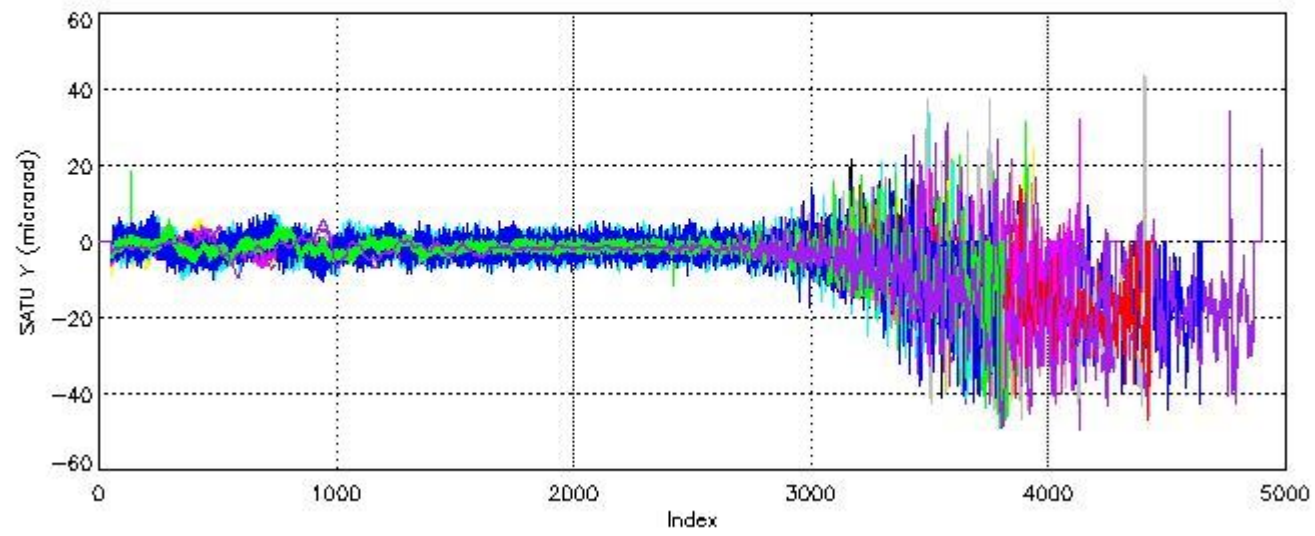
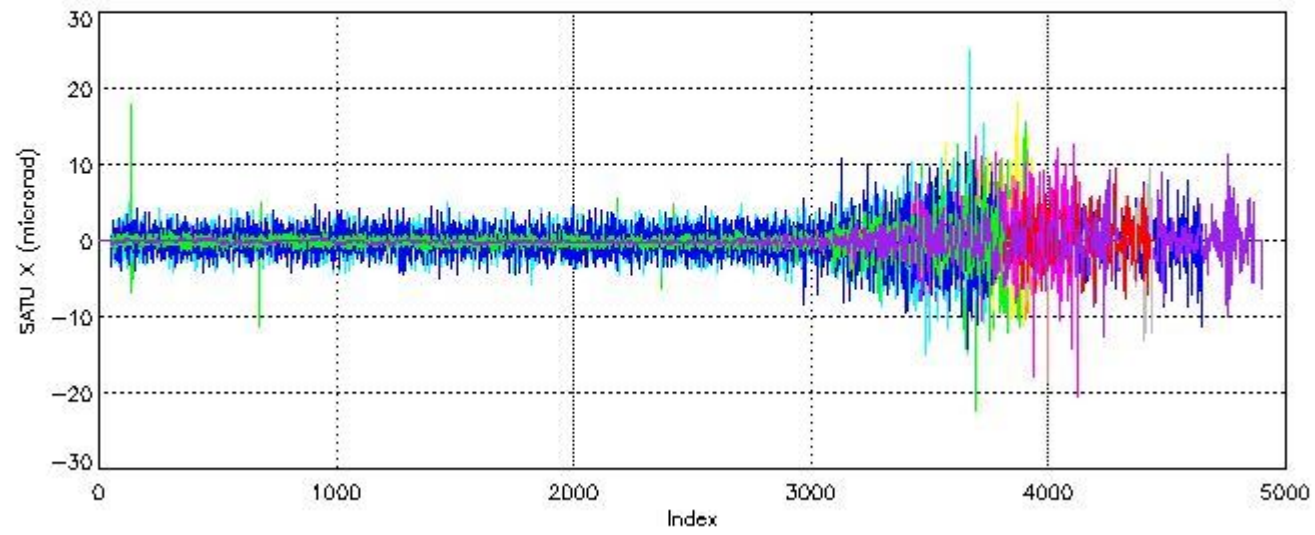


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.0017794	-1.0934	0.080457	-1.3270
St. deviation:	0.47297	1.9561	0.70550	2.0634
Maximum:	18.000	18.200	5.0000	8.0000
Minimum:	-11.300	-10.000	-5.0000	-11.100

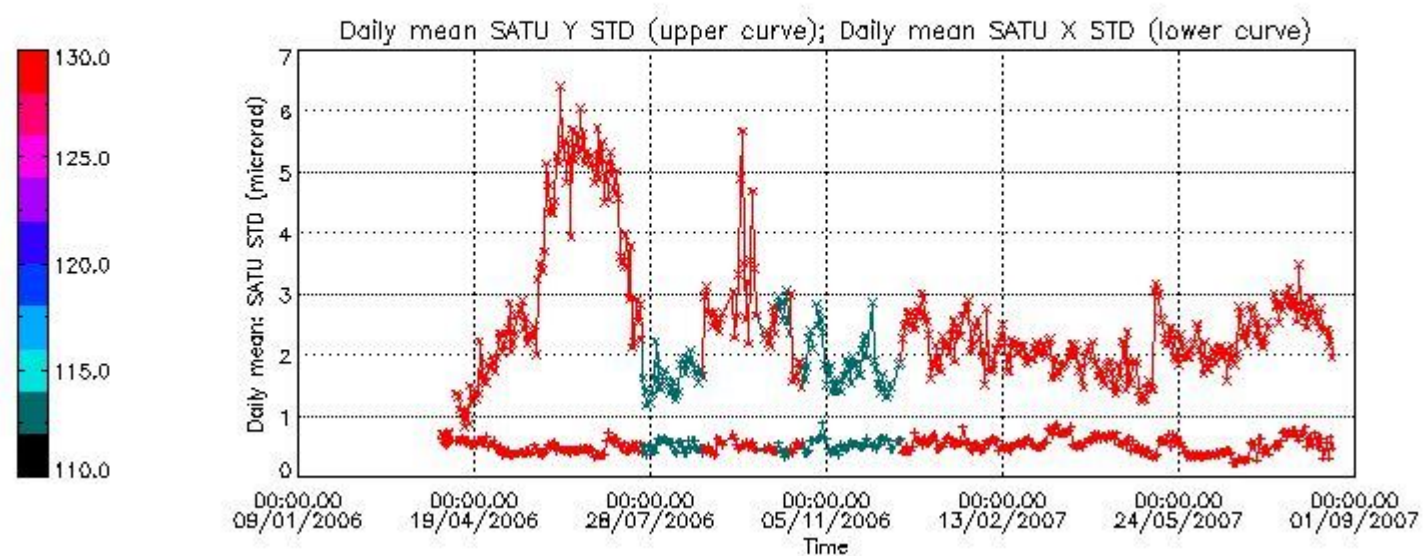
Number of data:	12600.	12600.	19000.	19000.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

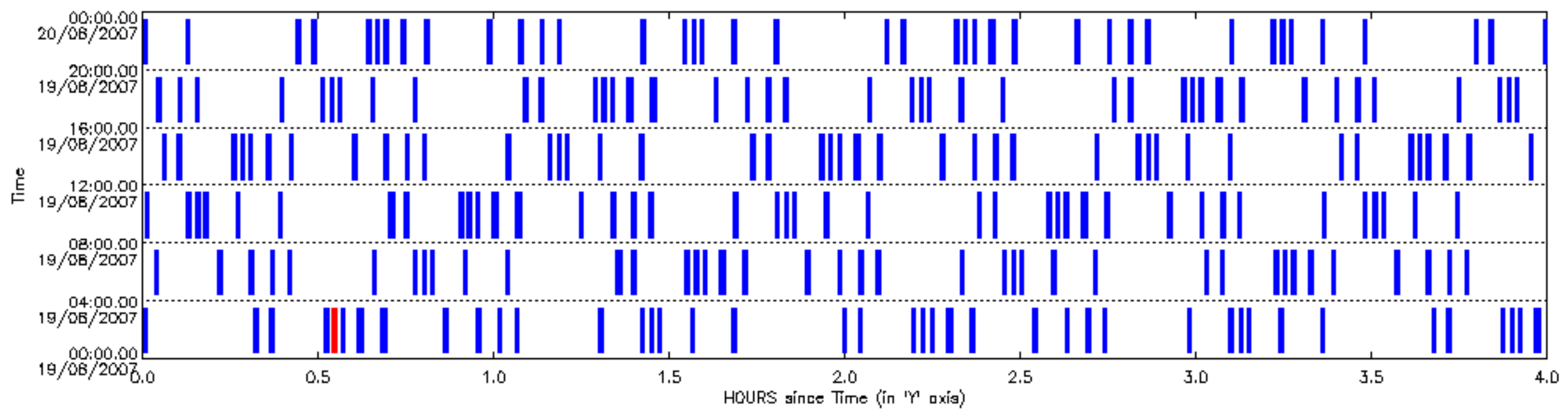


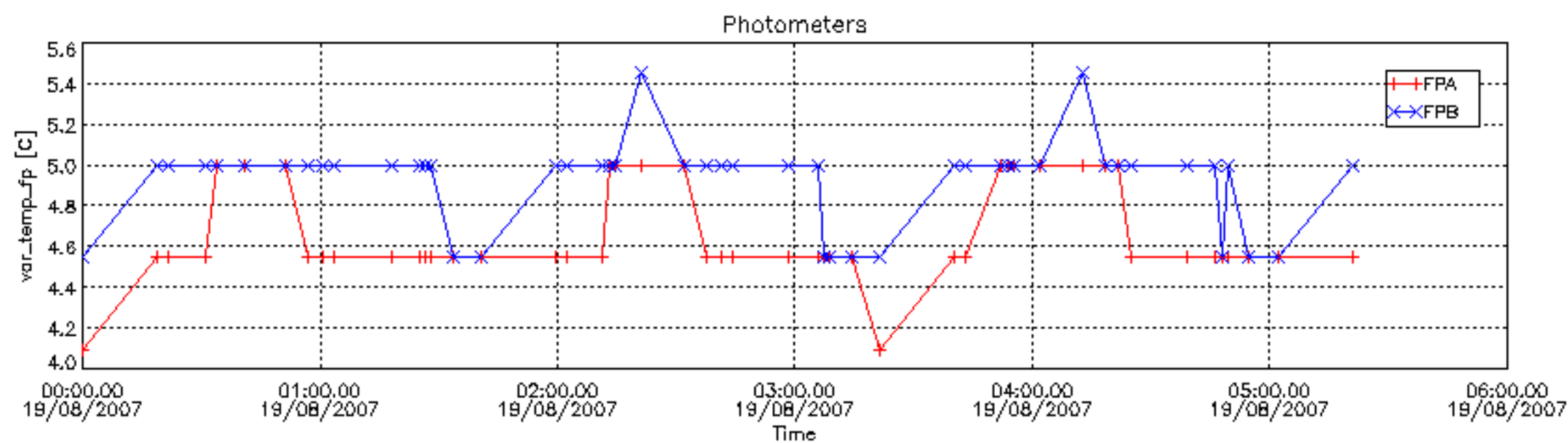
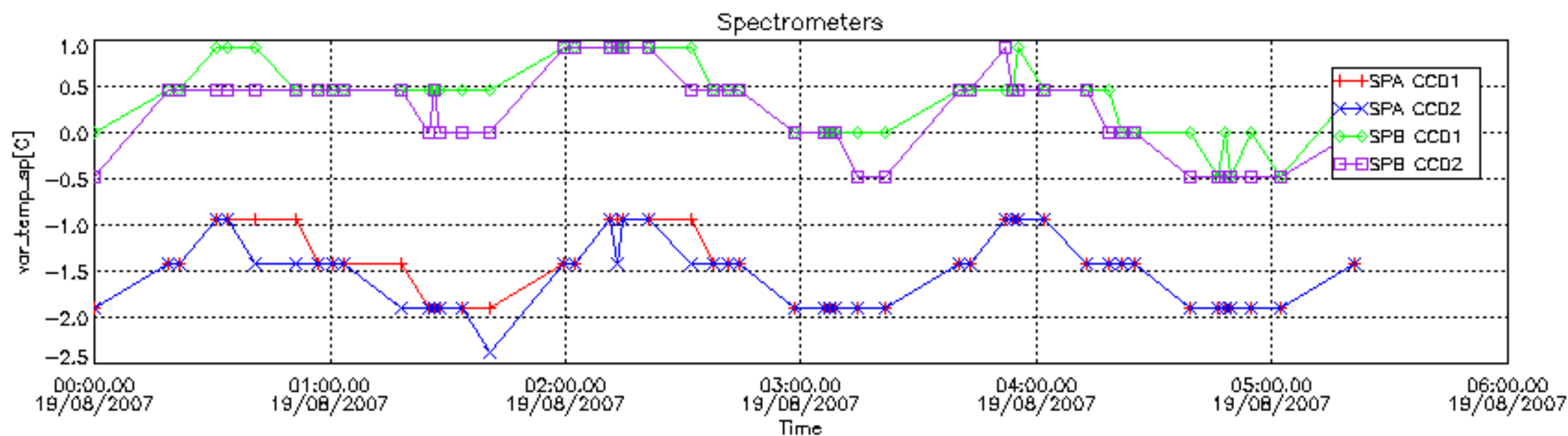
### 8. Auxiliary Data Files used for the production reported in section 2.4

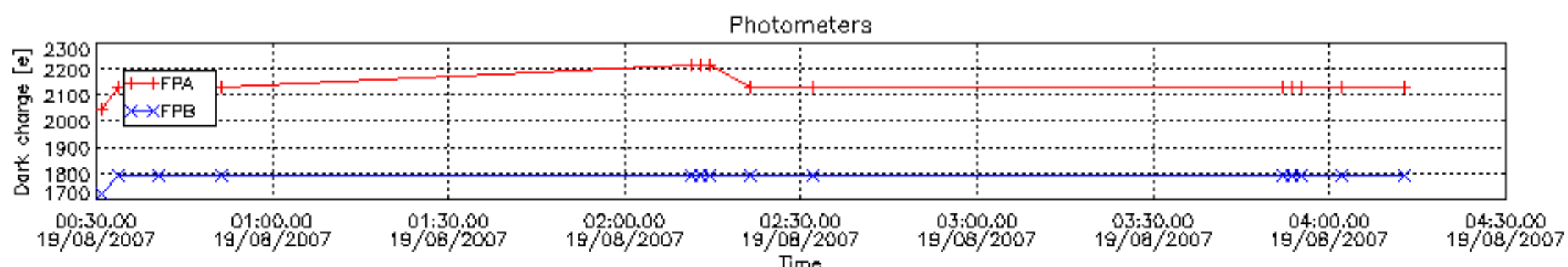
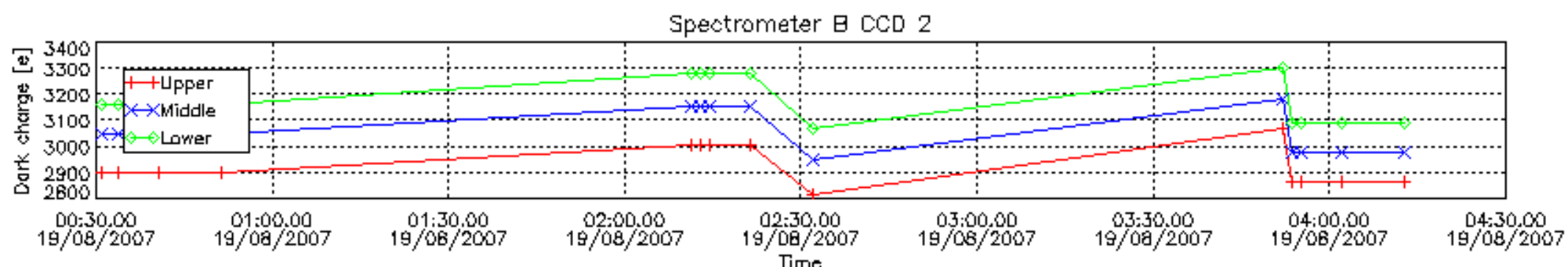
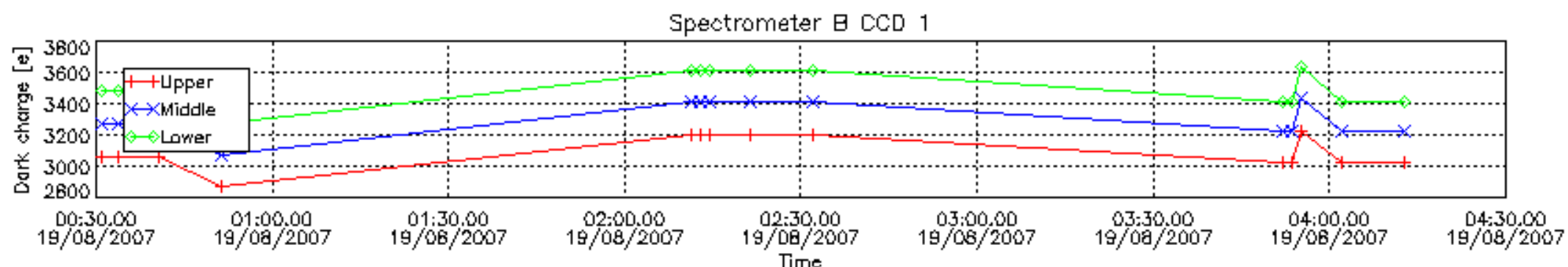
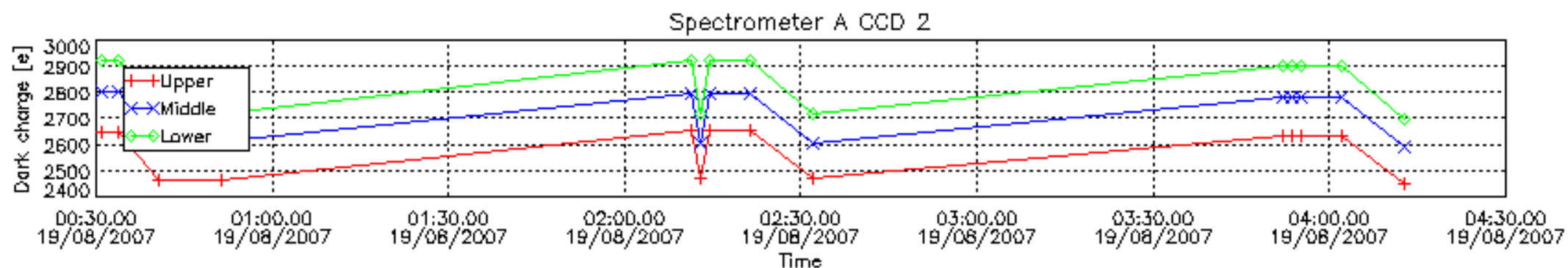
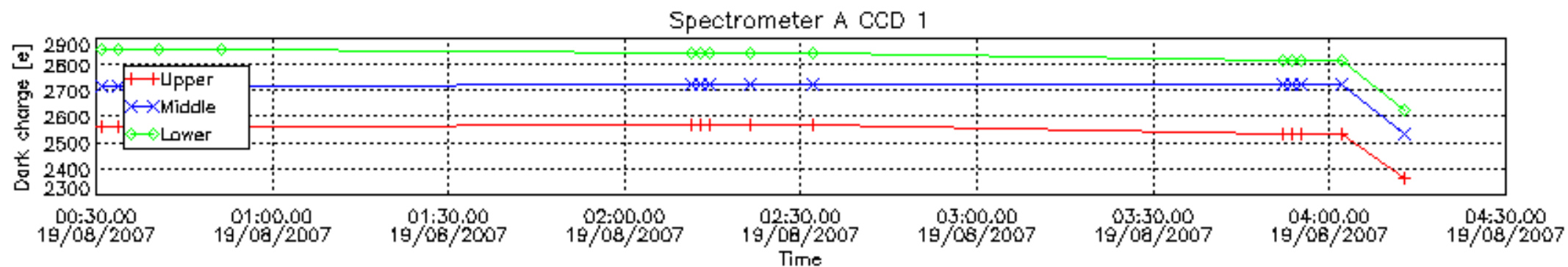
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-AUG-2007 00:00:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070814_104912_20070813_000000_20100101_000000	1	19-AUG-2007 00:00:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-AUG-2007 00:00:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-AUG-2007 00:00:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-AUG-2007 00:00:08
ECMWF_FILE	AUX_ECF_AXNECM20070819_025116_20070818_210000_20070819_090000	1	19-AUG-2007 00:00:08
ECMWF_FILE	AUX_ECF_AXNECM20070819_025112_20070819_030000_20070819_150000	33	19-AUG-2007 03:40:14
OPTIONAL_ECMWF_FILE	MISSING	1	19-AUG-2007 00:00:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070818_210156_000060572060_00472_28582_3996.N1	1	19-AUG-2007 00:00:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070818_224812_000057382060_00473_28583_3997.N1	4	19-AUG-2007 00:30:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070819_020447_000041442060_00475_28585_3999.N1	19	19-AUG-2007 02:11:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070819_031910_000057382060_00476_28586_4000.N1	49	19-AUG-2007 05:20:51

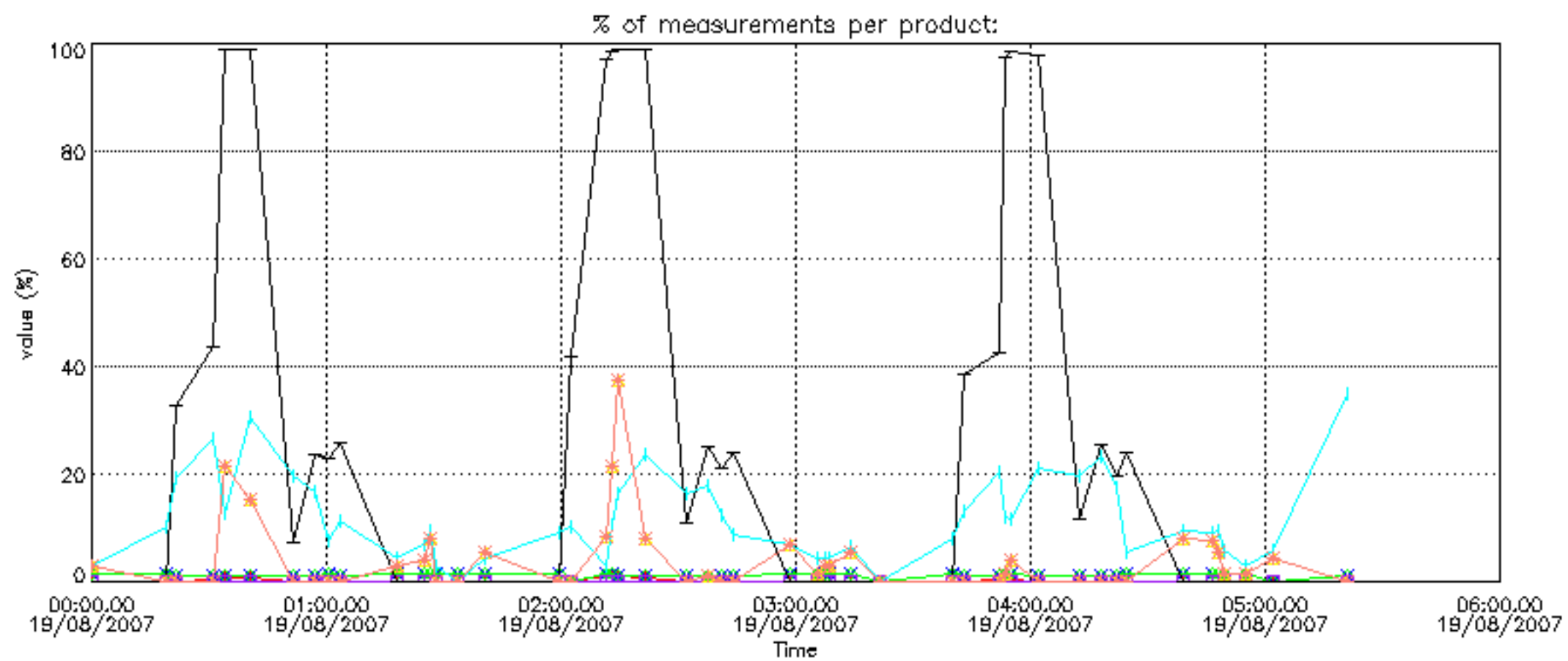
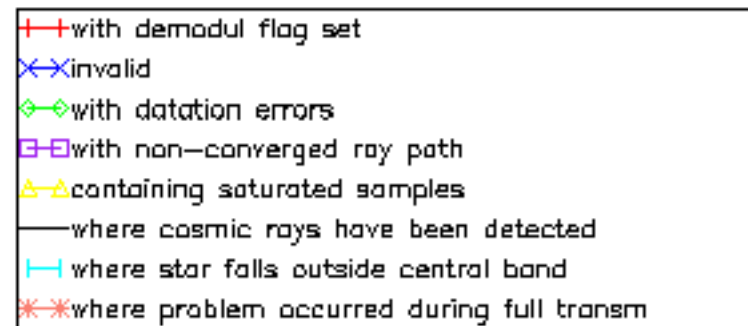




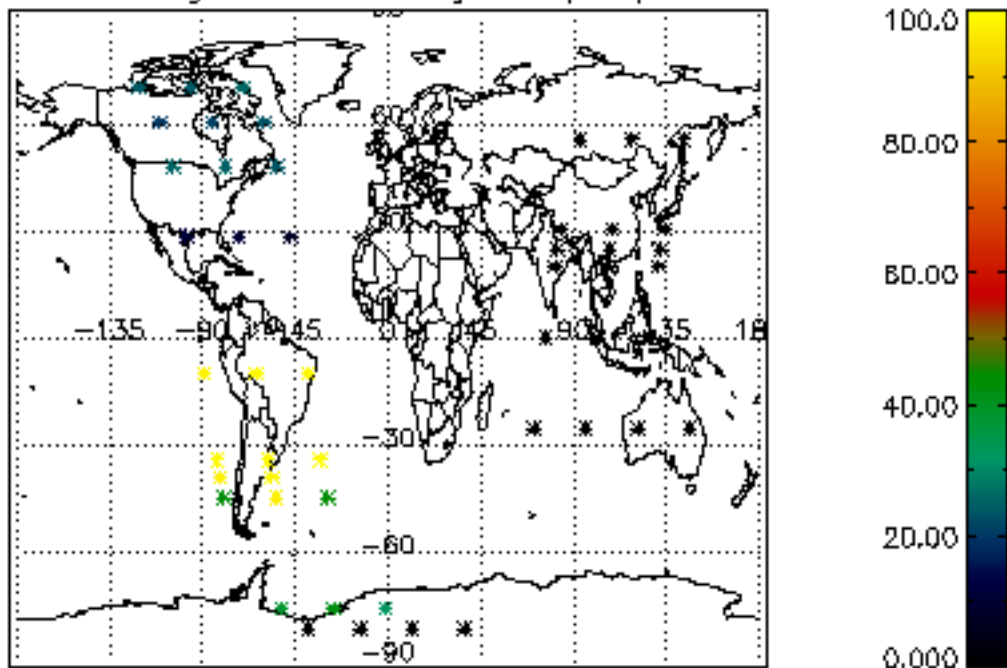




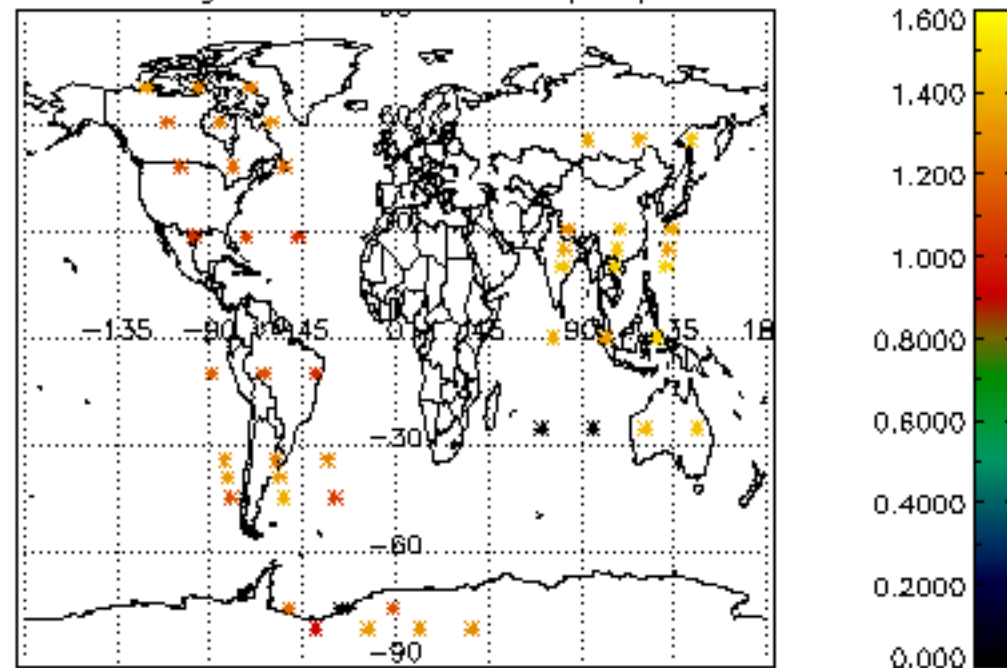




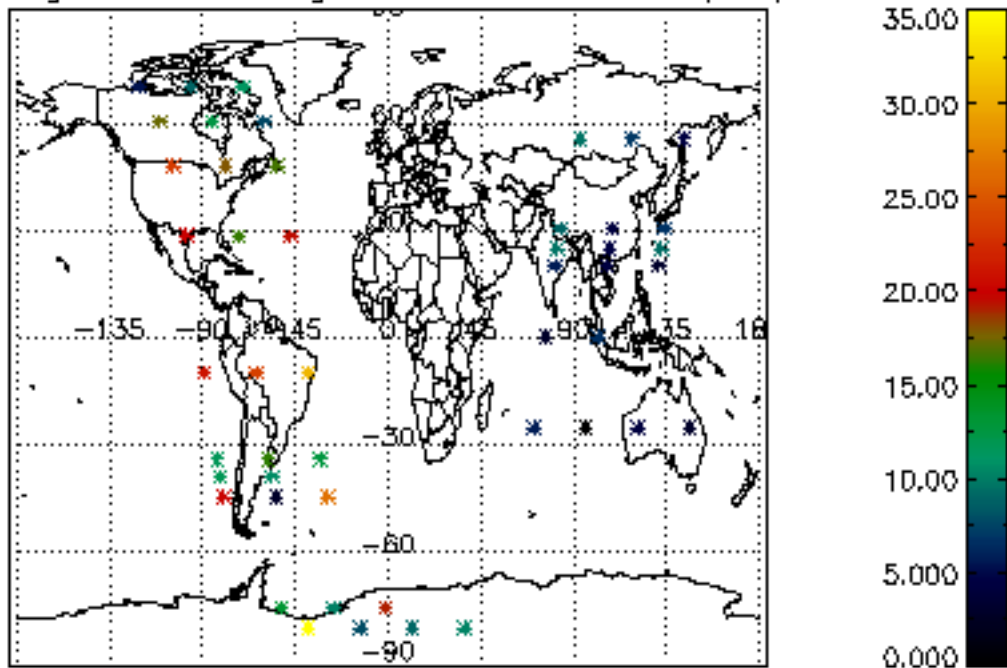
Percentage of cosmic ray hits per profile



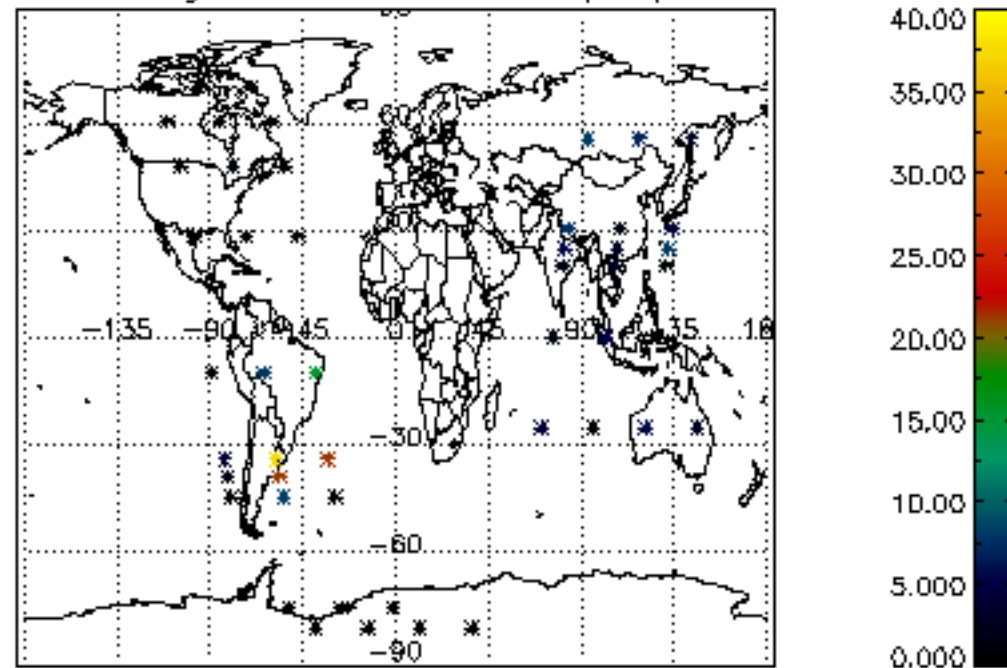
Percentage of datation errors per profile



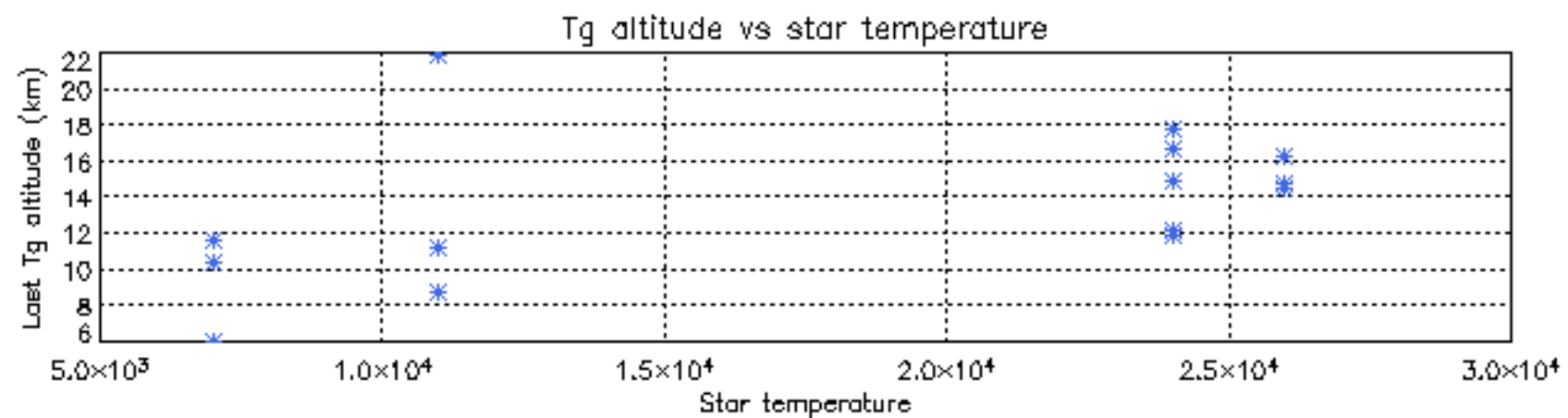
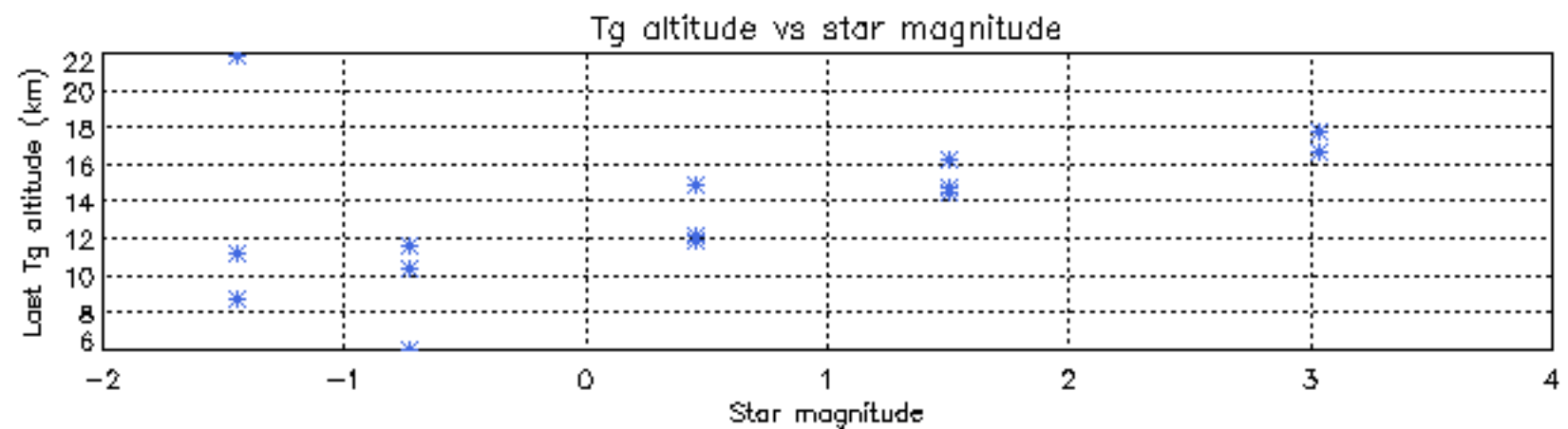
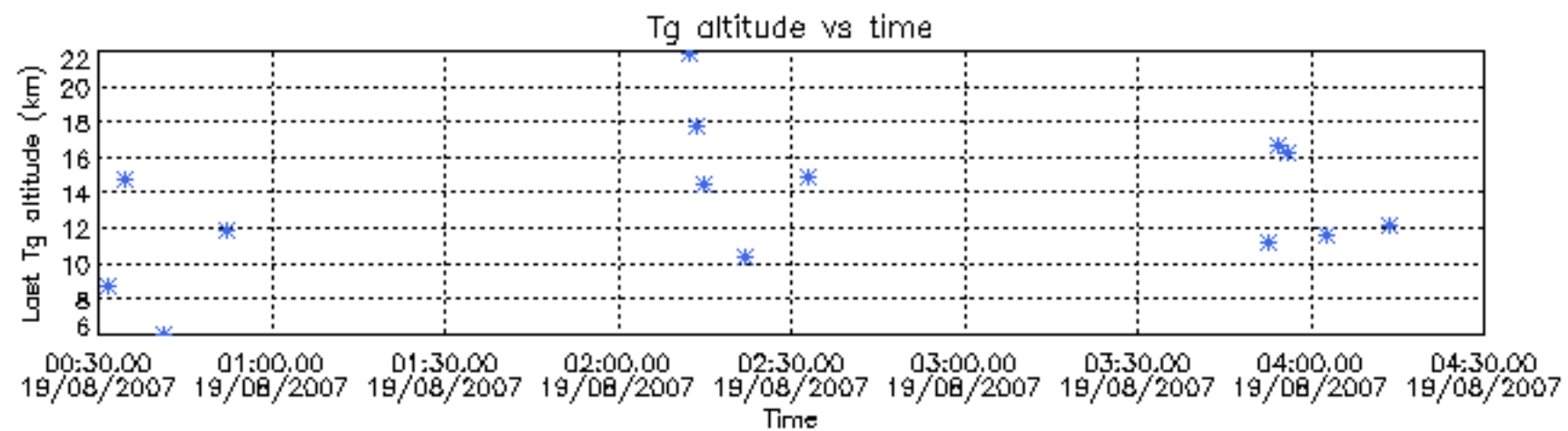
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

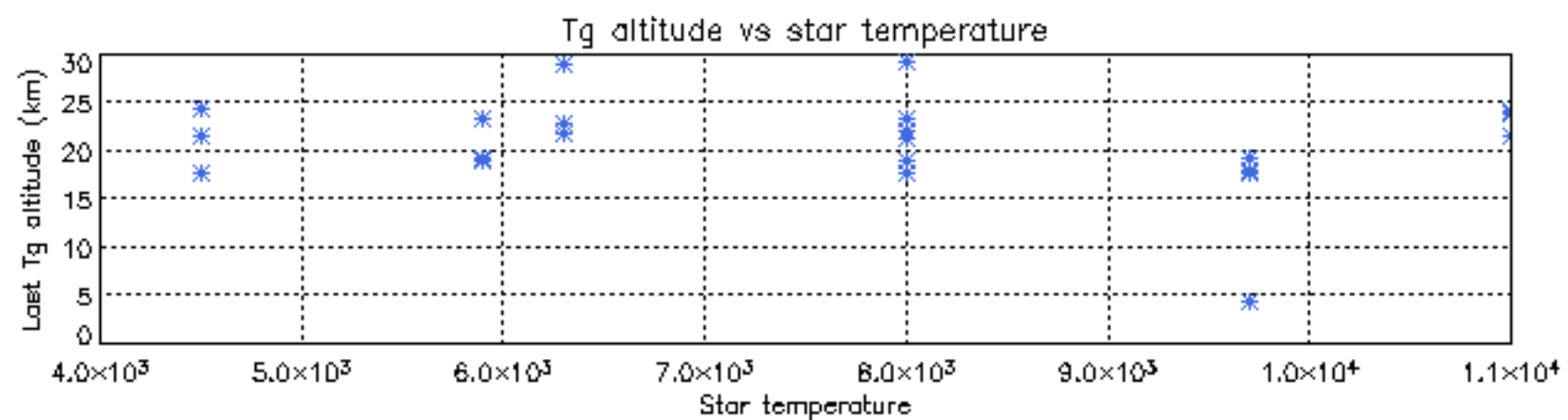
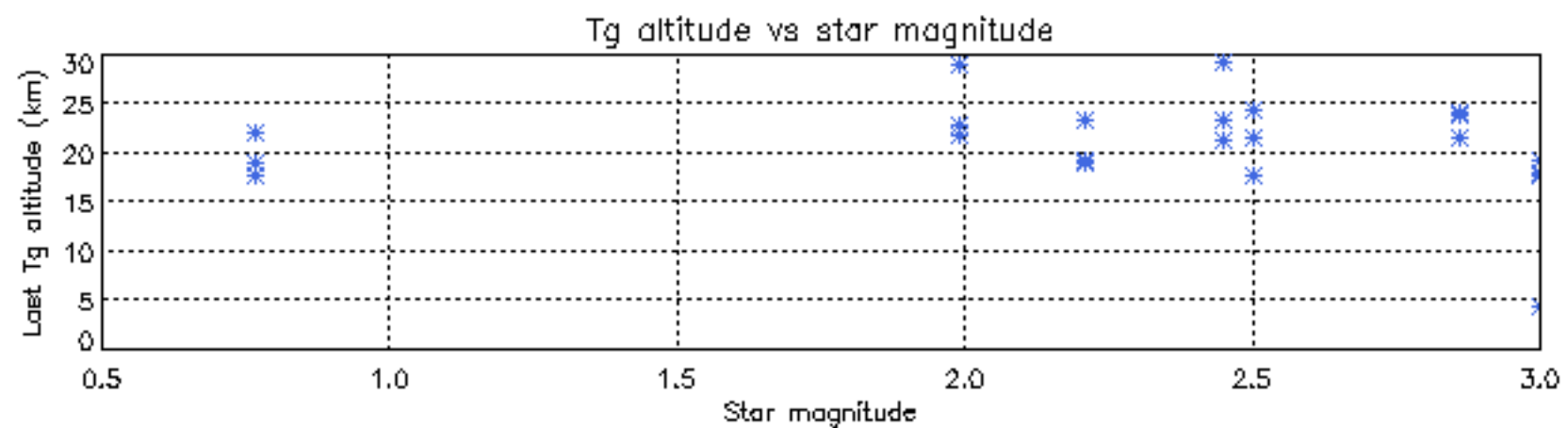
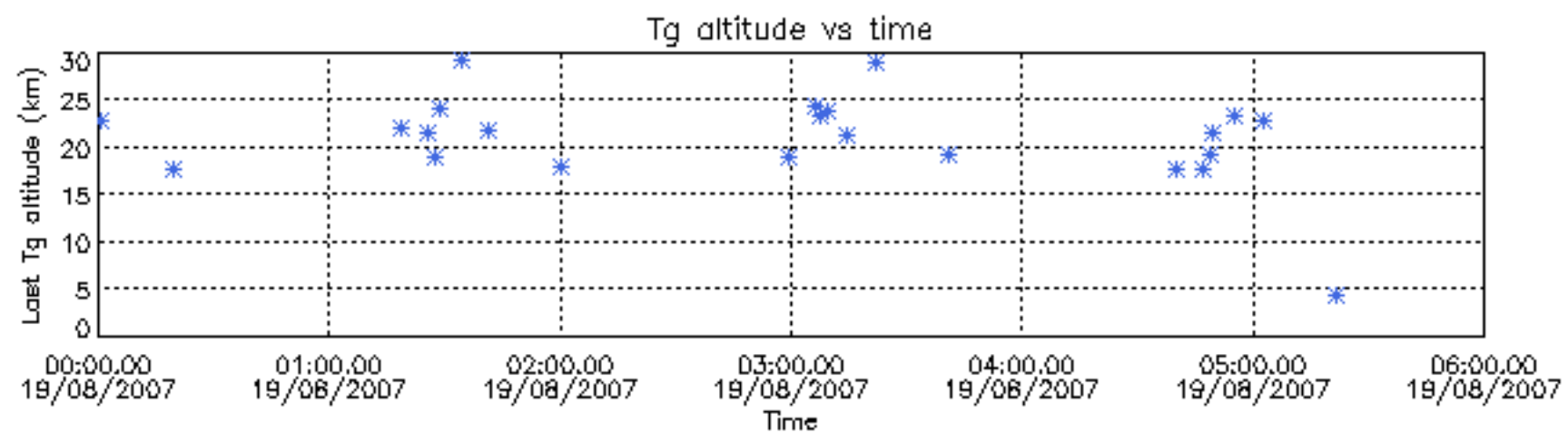


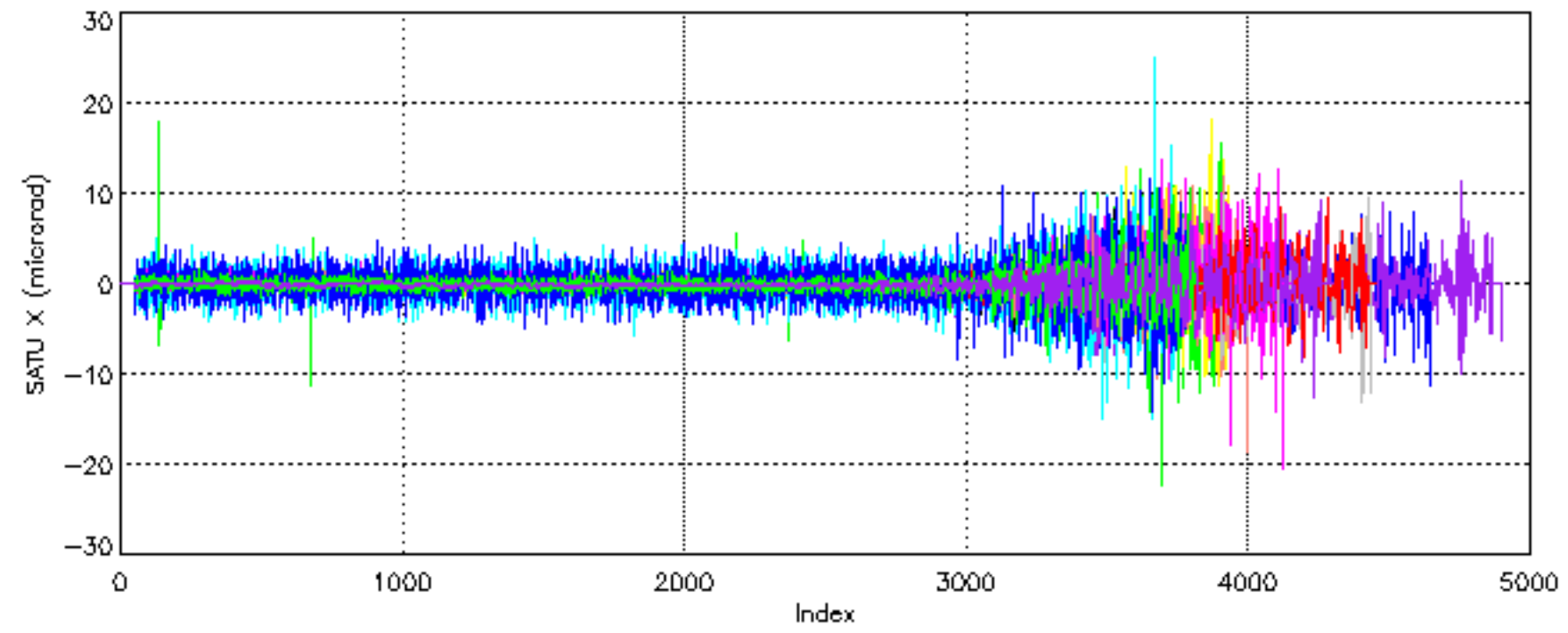
Tangent altitude at which the star is lost

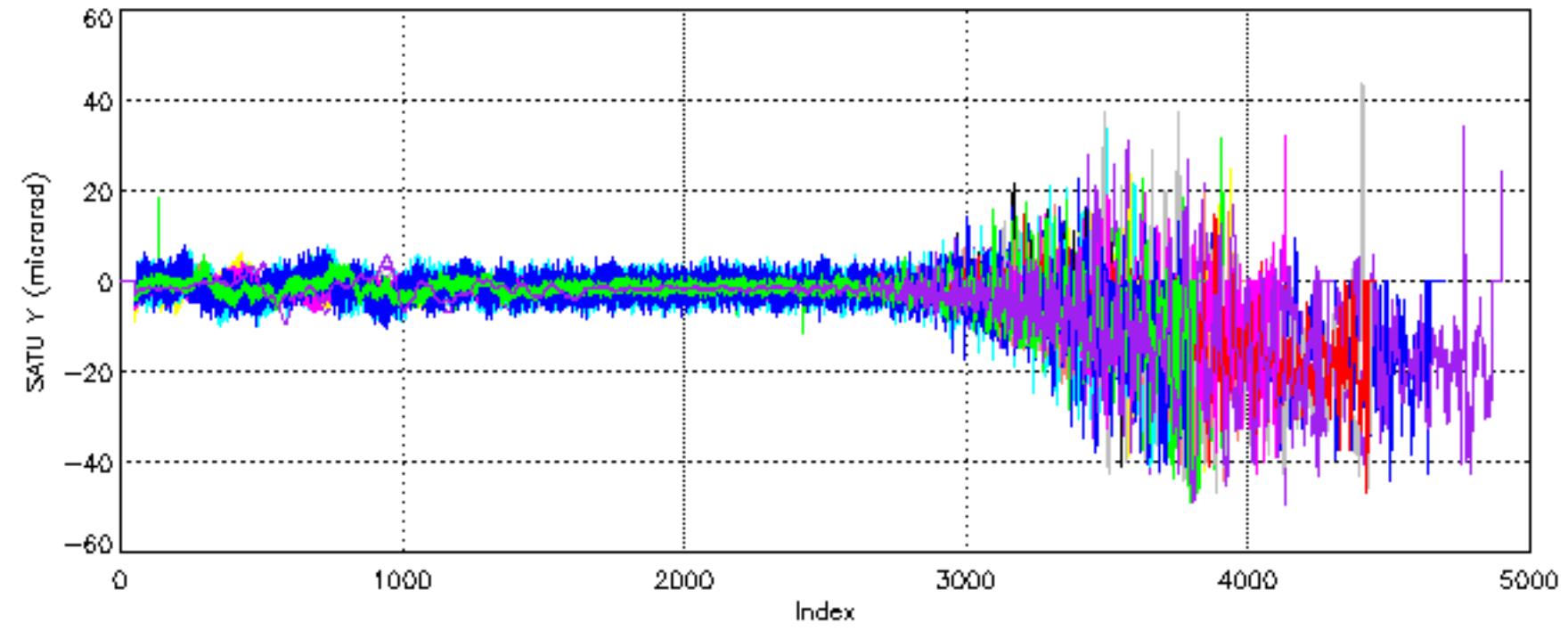




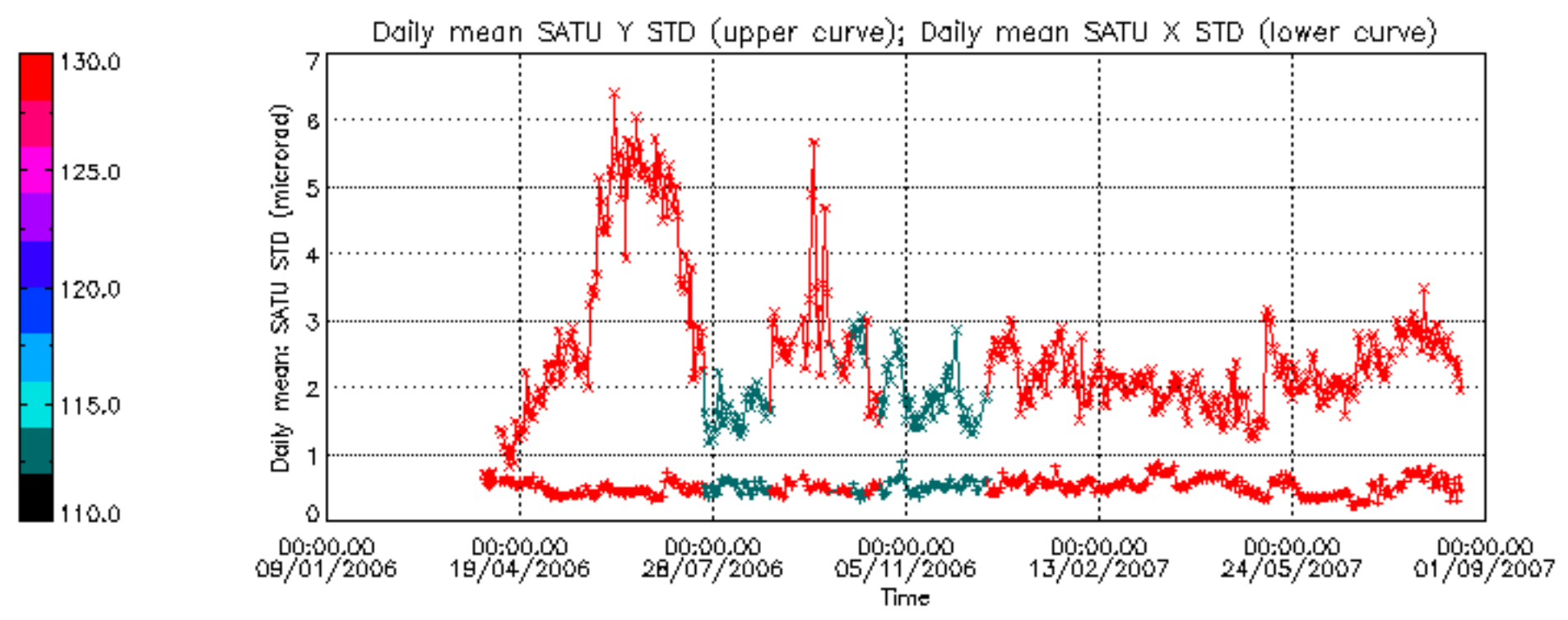
Tangent altitude at which the star is lost











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 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327  
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328  
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328  
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328  
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328  
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328  
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328  
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328  
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328  
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 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328  
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328  
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 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328  
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 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328  
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 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328  
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 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329  
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329  
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329  
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329  
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329  
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329  
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329  
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329  
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329  
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 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329  
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 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329  
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 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330  
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 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339  
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339  
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339  
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339  
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339  
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339  
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339  
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339  
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13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339  
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3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339  
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339  
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340  
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340  
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340  
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4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341  
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6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341  
7; 913.2; 01-AUG-2007 23:52:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28341  
8; 1414.5; 02-AUG-2007 00:00:55; Dark ; 51.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 102; 0;28341  
9; 1557.2; 02-AUG-2007 00:03:18; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28341  
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13; 3288.3; 02-AUG-2007 00:32:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28341  
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 18; 6621.6; 30-AUG-2007 08:30:12; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28746  
 19; 6979.6; 30-AUG-2007 08:36:10; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28746  
 20; 7077.2; 30-AUG-2007 08:37:47; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28746  
 21; 7357.0; 30-AUG-2007 08:42:27; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28746  
 22; 7651.5; 30-AUG-2007 08:47:22; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28746  
 23; 7841.2; 30-AUG-2007 08:50:31; Bright; 16.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 32; 0;28746

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 2; 1896.8; 30-AUG-2007 08:52:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28747  
 3; 2077.4; 30-AUG-2007 08:55:04; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;28747  
 4; 2486.6; 30-AUG-2007 09:01:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28747

5; 2677.5; 30-AUG-2007 09:05:04; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28747  
6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747  
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747  
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747  
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747  
10; 4781.2; 30-AUG-2007 09:40:07; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28747  
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12; 5356.6; 30-AUG-2007 09:49:43; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;28747  
13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747  
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747  
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747  
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747  
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747  
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747  
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747  
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747  
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747  
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748  
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748  
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748  
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748  
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748  
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748  
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748  
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748  
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748  
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748  
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748  
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748  
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748  
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748  
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748  
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748  
18; 6622.8; 30-AUG-2007 11:51:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28748  
19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748  
20; 7077.7; 30-AUG-2007 11:59:00; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;28748  
21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748  
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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2; 1805.4; 30-AUG-2007 12:11:43; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28749  
3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749  
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749  
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749  
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749  
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749  
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749  
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749  
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749  
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749  
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749  
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749  
14; 5438.0; 30-AUG-2007 13:12:16; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28749  
15; 5526.1; 30-AUG-2007 13:13:44; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;28749  
16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749  
17; 5717.7; 30-AUG-2007 13:16:56; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28749  
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19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28749  
20; 6981.3; 30-AUG-2007 13:37:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;28749  
21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749  
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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1; 1616.1; 30-AUG-2007 13:49:10; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28750  
2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750  
3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750



4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750  
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750  
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750  
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750  
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750  
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750  
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750  
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750  
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750  
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750  
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750  
15; 5526.6; 30-AUG-2007 14:54:20; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28750  
16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28750  
17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750  
18; 6548.9; 30-AUG-2007 15:11:23; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28750  
19; 6624.1; 30-AUG-2007 15:12:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28750  
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21; 7078.5; 30-AUG-2007 15:20:12; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;28750

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2; 1616.3; 30-AUG-2007 15:29:46; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28751  
3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751  
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751  
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751  
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751  
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751  
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751  
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751  
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751  
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751  
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751  
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751  
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17; 5623.0; 30-AUG-2007 16:36:33; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28751  
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3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752  
4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752  
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6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752  
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752  
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752  
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752  
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752  
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752  
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752  
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752  
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16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752  
17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752  
18; 5719.7; 30-AUG-2007 18:18:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28752  
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21; 6983.4; 30-AUG-2007 18:39:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;28752  
22; 7079.2; 30-AUG-2007 18:41:25; Dark ; 39.5; 63; Bet Gru ; 2.15; 2800;occ; 79; 0;28752

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3; 1616.5; 30-AUG-2007 18:50:58; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28753

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5; 1896.7; 30-AUG-2007 18:55:38; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28753
6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
7; 2486.8; 30-AUG-2007 19:05:29; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28753
8; 2677.6; 30-AUG-2007 19:08:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28753
9; 2978.3; 30-AUG-2007 19:13:40; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28753
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11; 4449.2; 30-AUG-2007 19:38:11; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28753
12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28753
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