

# GOMOS Daily Report 08-AUG-2008

## 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	10AUG2008 05:32:36
Data source version	GOMOS/5.00
Start time of products	08AUG2008 00:02:01
Stop time of products	08AUG2008 04:36:14
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)

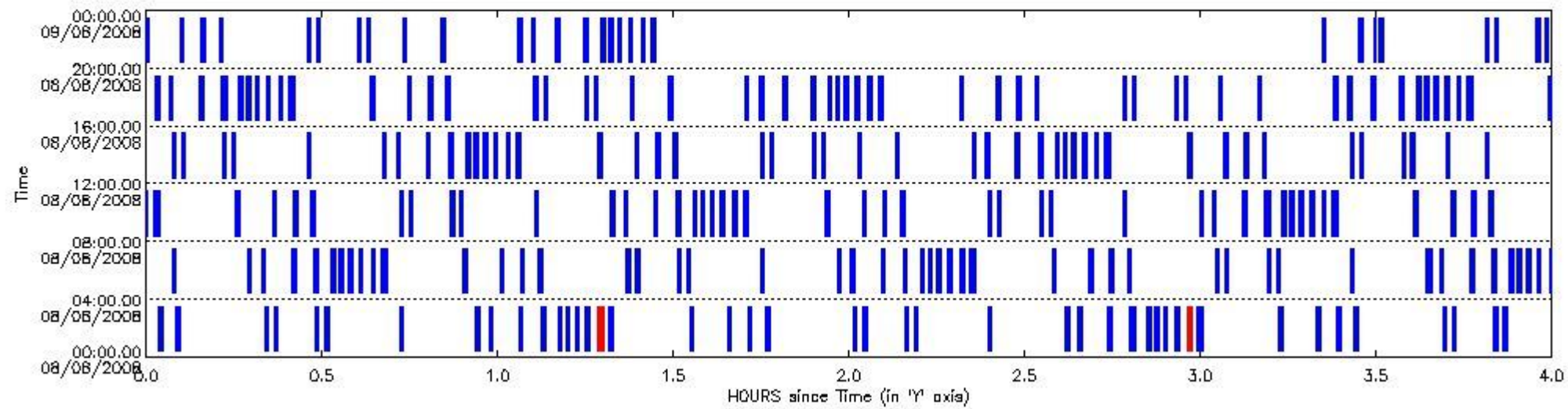
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

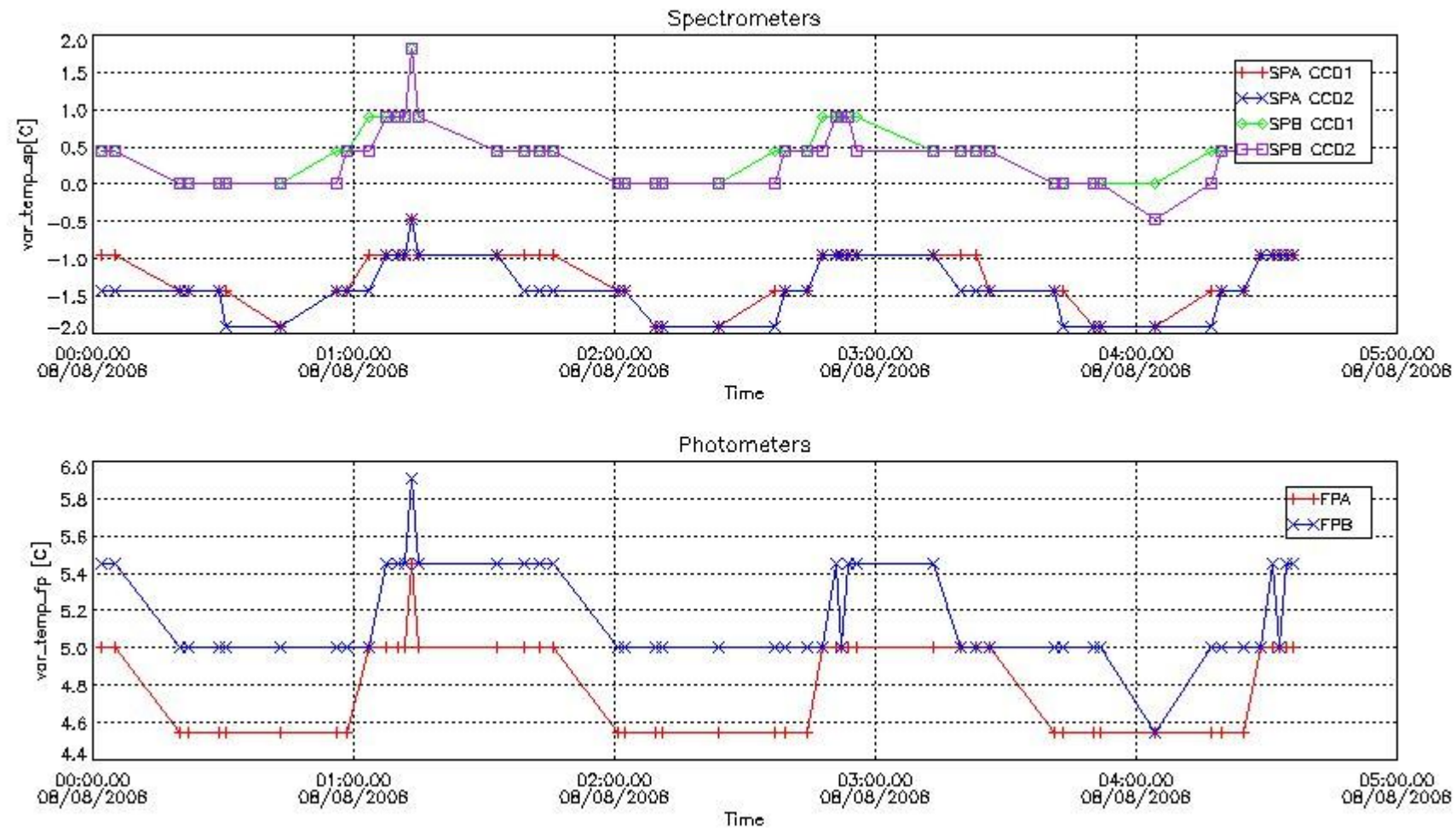
UTC start time	Star name	Star ID	Orbit
08-AUG-2008 01:17:09	1ZetCMa	177	33666
08-AUG-2008 02:57:45	1ZetCMa	177	33667

### 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_1PNPDE20080808_000201_000000422071_00045_33666_0694.N1	08-AUG-2008 00:02:01	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33666	No
2	GOM_TRA_1PNPDE20080808_000505_000000442071_00045_33666_0695.N1	08-AUG-2008 00:05:05	Straylight	43.500	172	Gam Gru	3.0030	13100.	87	33666	No
3	GOM_TRA_1PNPDE20080808_002009_000000382071_00045_33666_0696.N1	08-AUG-2008 00:20:09	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	33666	No
4	GOM_TRA_1PNPDE20080808_002147_000000352071_00045_33666_0697.N1	08-AUG-2008 00:21:47	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33666	No
5	GOM_TRA_1PNPDE20080808_002855_000000342071_00045_33666_0698.N1	08-AUG-2008 00:28:55	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	33666	No
6	GOM_TRA_1PNPDE20080808_003031_000000362071_00045_33666_0699.N1	08-AUG-2008 00:30:31	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33666	No
7	GOM_TRA_1PNPDE20080808_004312_000000342071_00045_33666_0700.N1	08-AUG-2008 00:43:12	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	33666	No
8	GOM_TRA_1PNPDE20080808_005611_000000402071_00045_33666_0701.N1	08-AUG-2008 00:56:11	Bright	40.000	42	34Bet Aur	1.9000	10200.	80	33666	No
9	GOM_TRA_1PNPDE20080808_005830_000000372071_00045_33666_0702.N1	08-AUG-2008 00:58:30	Bright	36.500	107	37The Aur	2.6490	11000.	73	33666	No

10	GOM_TRA_1PNPDE20080808_010336_000000432071_00045_33666_0703.N1	08-AUG-2008 01:03:36	Twilight	43.000	176	23Zet Tau	3.0200	22000.	86	33666	No
11	GOM_TRA_1PNPDE20080808_010722_000000462071_00045_33666_0704.N1	08-AUG-2008 01:07:22	Dark	45.500	14	58Alp Ori	0.87000	3000.0	91	33666	No
12	GOM_TRA_1PNPDE20080808_011017_000000412071_00045_33666_0705.N1	08-AUG-2008 01:10:17	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33666	No
13	GOM_TRA_1PNPDE20080808_011139_000000402071_00045_33666_0706.N1	08-AUG-2008 01:11:39	Dark	40.000	125	44Iot Ori	2.7700	30000.	80	33666	No
14	GOM_TRA_1PNPDE20080808_011312_000000382071_00045_33666_0841.N1	08-AUG-2008 01:13:12	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	33666	No
15	GOM_TRA_1PNPDE20080808_011501_000000432071_00045_33666_0842.N1	08-AUG-2008 01:15:01	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	33666	No
16	GOM_TRA_1PNPDE20080808_013247_000000432071_00046_33667_0843.N1	08-AUG-2008 01:32:47	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33667	No
17	GOM_TRA_1PNPDE20080808_013909_000000412071_00046_33667_0844.N1	08-AUG-2008 01:39:09	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	33667	No
18	GOM_TRA_1PNPDE20080808_014238_000000452071_00046_33667_0845.N1	08-AUG-2008 01:42:38	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	33667	No
19	GOM_TRA_1PNPDE20080808_014541_000000432071_00046_33667_0846.N1	08-AUG-2008 01:45:41	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	33667	No
20	GOM_TRA_1PNPDE20080808_020045_000000362071_00046_33667_0847.N1	08-AUG-2008 02:00:45	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	33667	No
21	GOM_TRA_1PNPDE20080808_020223_000000372071_00046_33667_0848.N1	08-AUG-2008 02:02:23	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	33667	No
22	GOM_TRA_1PNPDE20080808_020931_000000392071_00046_33667_0849.N1	08-AUG-2008 02:09:31	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33667	No
23	GOM_TRA_1PNPDE20080808_021107_000000352071_00046_33667_0850.N1	08-AUG-2008 02:11:07	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33667	No
24	GOM_TRA_1PNPDE20080808_022348_000000332071_00046_33667_0851.N1	08-AUG-2008 02:23:48	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33667	No
25	GOM_TRA_1PNPDE20080808_023647_000000492071_00046_33667_1025.N1	08-AUG-2008 02:36:47	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	33667	No
26	GOM_TRA_1PNPDE20080808_023906_000000422071_00046_33667_1026.N1	08-AUG-2008 02:39:06	Bright	41.500	107	37The Aur	2.6490	11000.	83	33667	No
27	GOM_TRA_1PNPDE20080808_024412_000000422071_00046_33667_1027.N1	08-AUG-2008 02:44:12	Twilight	42.000	176	23Zet Tau	3.0200	22000.	84	33667	No
28	GOM_TRA_1PNPDE20080808_024758_000000552071_00046_33667_1028.N1	08-AUG-2008 02:47:58	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	33667	No
29	GOM_TRA_1PNPDE20080808_025054_000000412071_00046_33667_1029.N1	08-AUG-2008 02:50:54	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33667	No
30	GOM_TRA_1PNPDE20080808_025216_000000402071_00046_33667_1030.N1	08-AUG-2008 02:52:16	Dark	40.000	125	44Iot Ori	2.7700	30000.	80	33667	No
31	GOM_TRA_1PNPDE20080808_025348_000000372071_00046_33667_1031.N1	08-AUG-2008 02:53:48	Dark	37.000	1	9Alp CMa	-1.4400	11000.	74	33667	No
32	GOM_TRA_1PNPDE20080808_025538_000000422071_00046_33667_1032.N1	08-AUG-2008 02:55:38	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33667	No
33	GOM_TRA_1PNPDE20080808_031324_000000422071_00047_33668_1033.N1	08-AUG-2008 03:13:24	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33668	No
34	GOM_TRA_1PNPDE20080808_031946_000000432071_00047_33668_1034.N1	08-AUG-2008 03:19:46	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	33668	No
35	GOM_TRA_1PNPDE20080808_032314_000000422071_00047_33668_1035.N1	08-AUG-2008 03:23:14	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	33668	No
36	GOM_TRA_1PNPDE20080808_032617_000000452071_00047_33668_1036.N1	08-AUG-2008 03:26:17	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	33668	No
37	GOM_TRA_1PNPDE20080808_034121_000000362071_00047_33668_1037.N1	08-AUG-2008 03:41:21	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	33668	No
38	GOM_TRA_1PNPDE20080808_034259_000000362071_00047_33668_1038.N1	08-AUG-2008 03:42:59	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33668	No
39	GOM_TRA_1PNPDE20080808_035007_000000392071_00047_33668_1039.N1	08-AUG-2008 03:50:07	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	33668	No
40	GOM_TRA_1PNPDE20080808_035143_000000372071_00047_33668_1040.N1	08-AUG-2008 03:51:43	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	33668	No
41	GOM_TRA_1PNPDE20080808_040424_000000362071_00047_33668_1041.N1	08-AUG-2008 04:04:24	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33668	No
42	GOM_TRA_1PNPDE20080808_041723_000000362071_00047_33668_1179.N1	08-AUG-2008 04:17:23	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	33668	No
43	GOM_TRA_1PNPDE20080808_041942_000000362071_00047_33668_1180.N1	08-AUG-2008 04:19:42	Bright	35.500	107	37The Aur	2.6490	11000.	71	33668	No
44	GOM_TRA_1PNPDE20080808_042448_000000422071_00047_33668_1181.N1	08-AUG-2008 04:24:48	Twilight	41.500	176	23Zet Tau	3.0200	22000.	83	33668	No
45	GOM_TRA_1PNPDE20080808_042834_000000532071_00047_33668_1182.N1	08-AUG-2008 04:28:34	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	33668	No
46	GOM_TRA_1PNPDE20080808_043130_000000412071_00047_33668_1183.N1	08-AUG-2008 04:31:30	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33668	No
47	GOM_TRA_1PNPDE20080808_043252_000000402071_00047_33668_1184.N1	08-AUG-2008 04:32:52	Dark	39.500	125	44Iot Ori	2.7700	30000.	79	33668	No
48	GOM_TRA_1PNPDE20080808_043424_000000492071_00047_33668_1185.N1	08-AUG-2008 04:34:24	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	33668	No
49	GOM_TRA_1PNPDE20080808_043614_000000442071_00047_33668_1186.N1	08-AUG-2008 04:36:14	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	33668	No

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



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

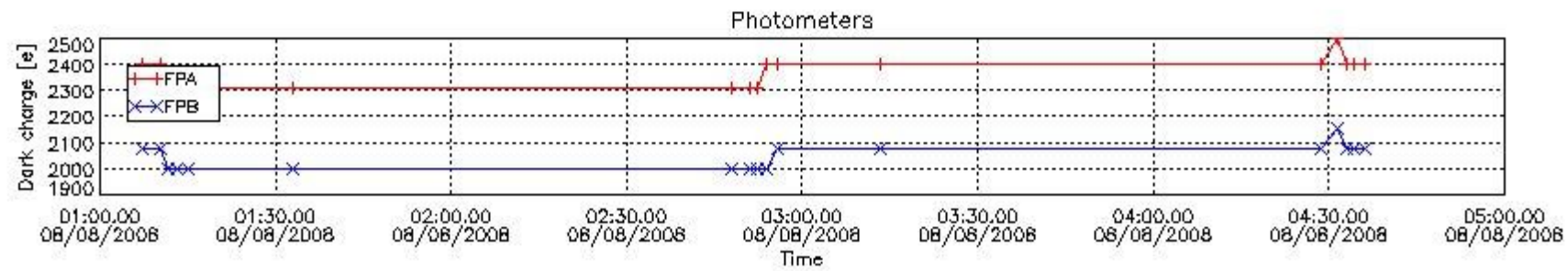
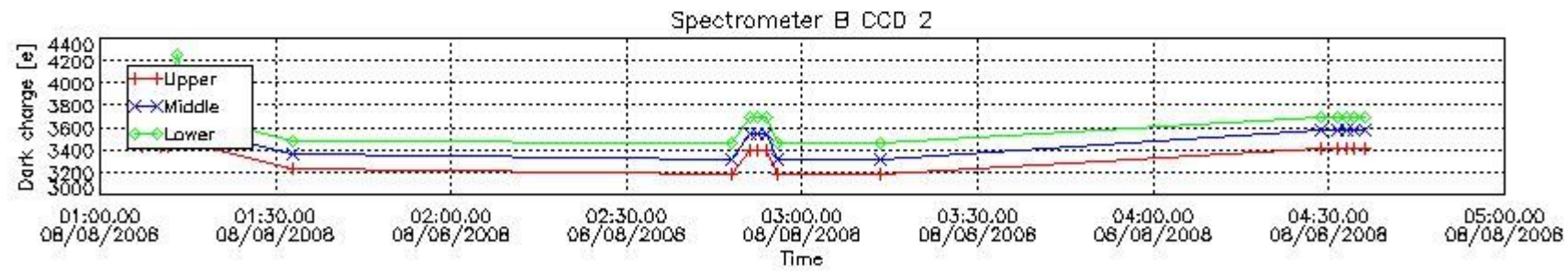
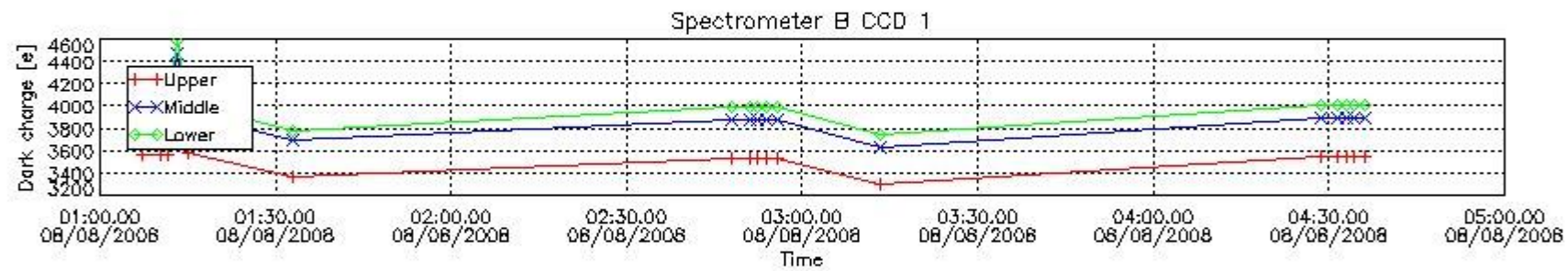
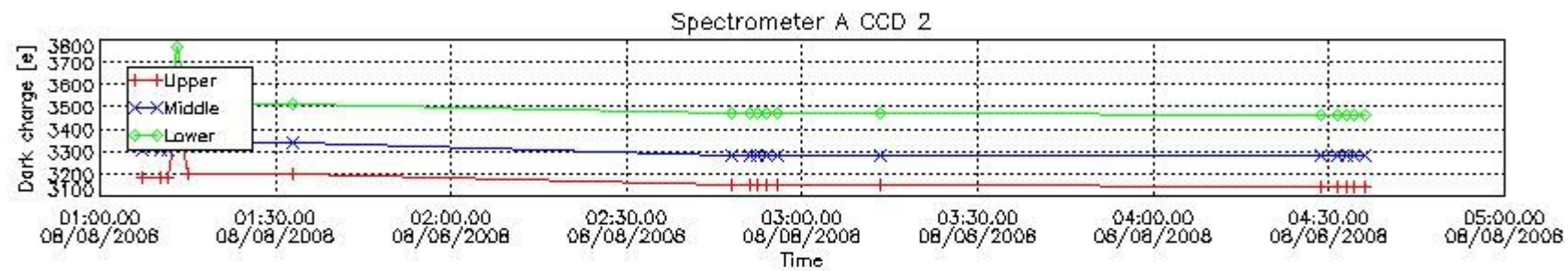
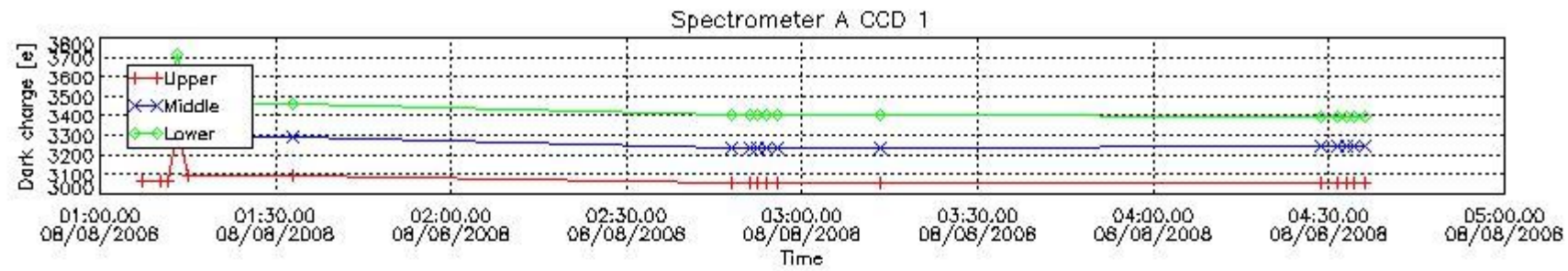
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

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





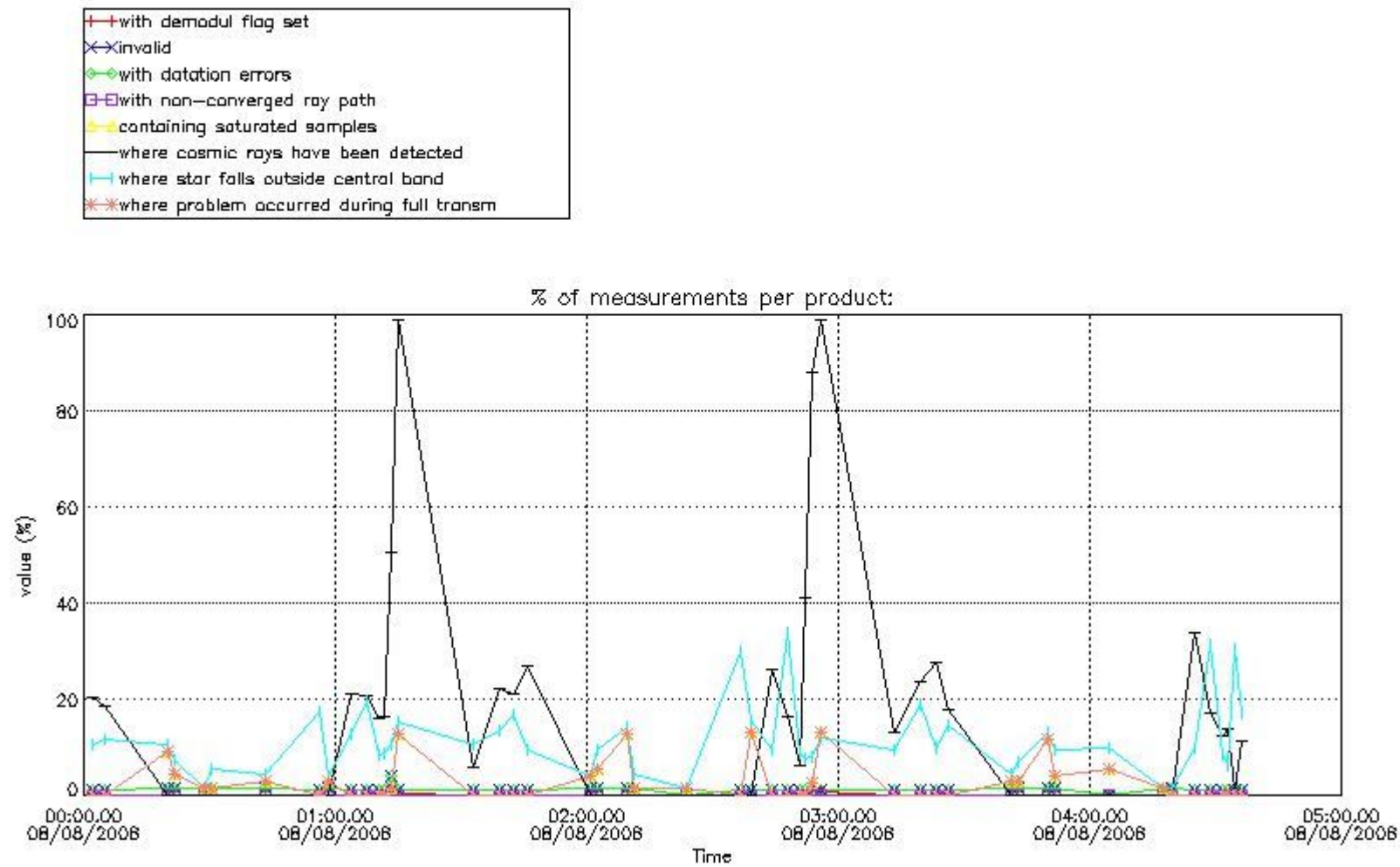
## 5. Demodulation flag and quality information monitoring

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

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

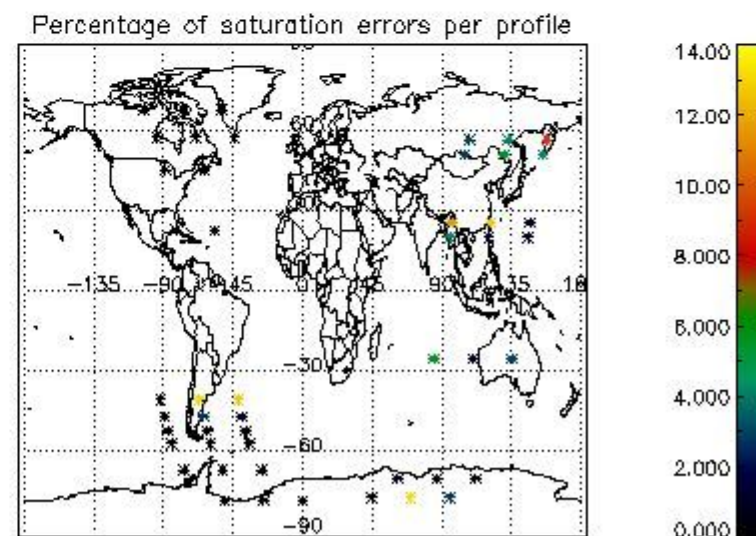
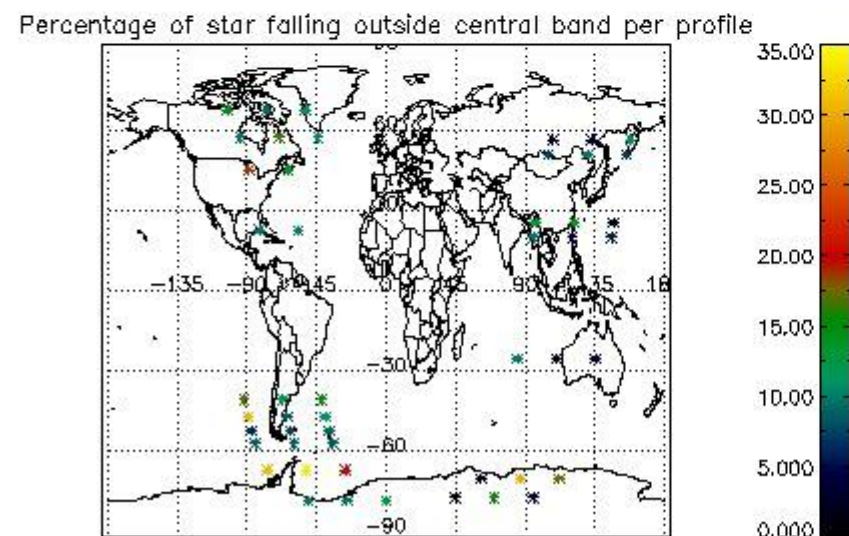
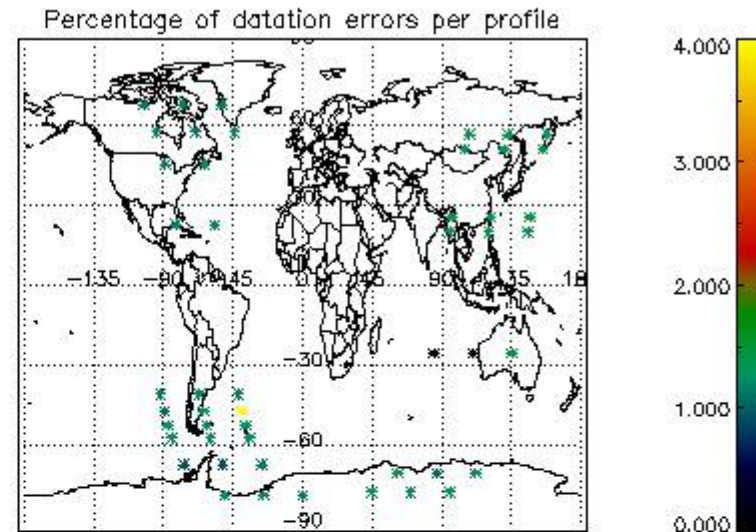
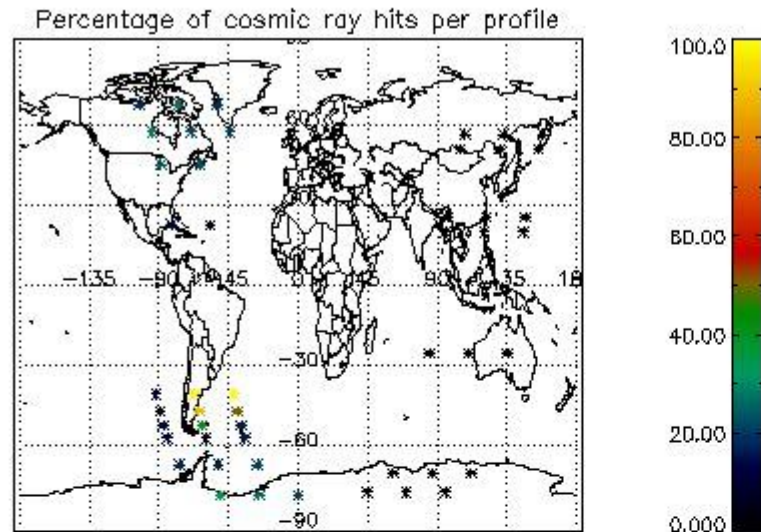
At least one measurement with demodulation flag set:	24.4898 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





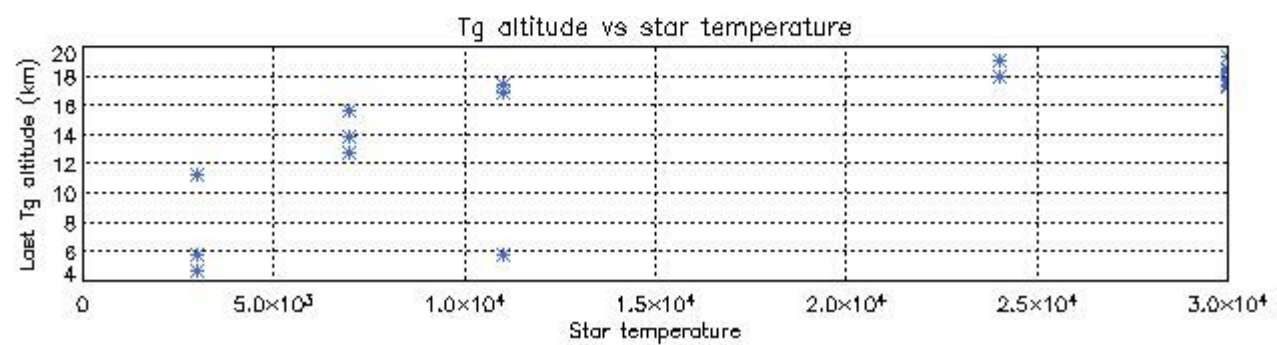
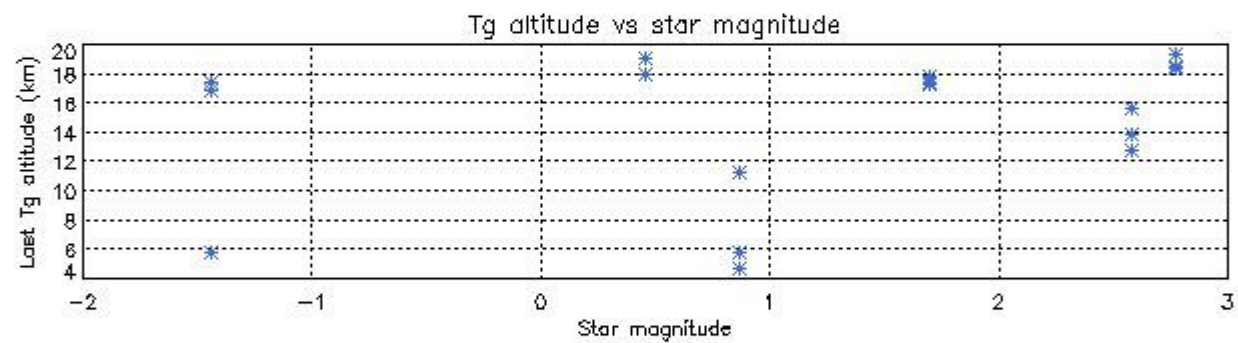
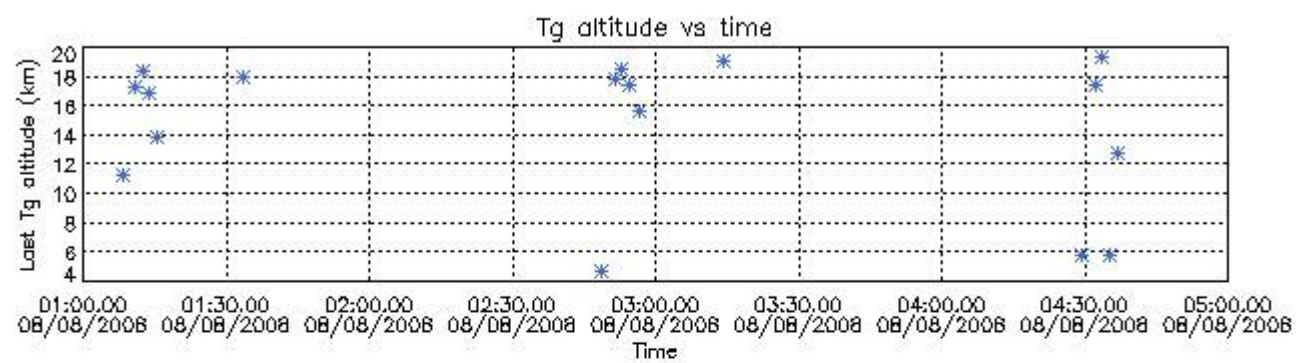
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.677	20.393	NaN
St. deviation:	4.9560	4.4951	NaN
Maximum:	19.385	28.548	NaN
Minimum:	4.6417	8.2736	NaN
Number of data:	17.000	21.000	NaN

### 6.2 Plot for DARK limb products

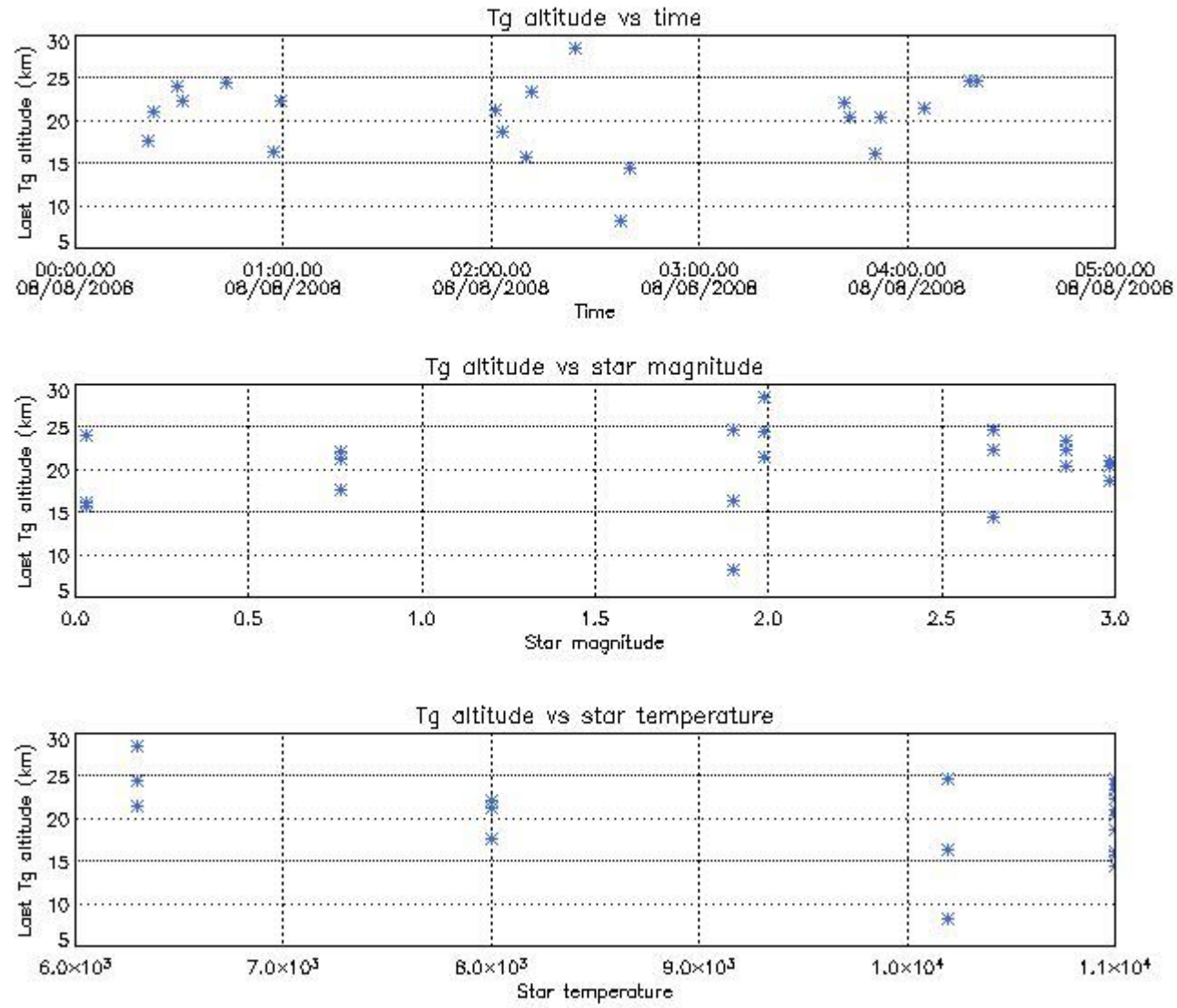
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

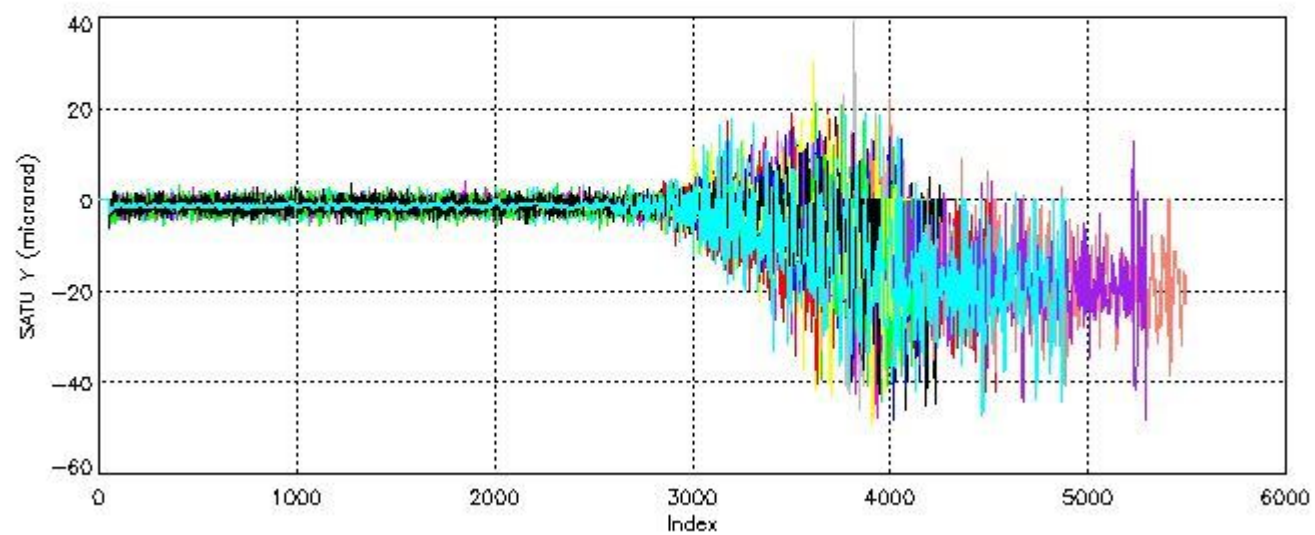
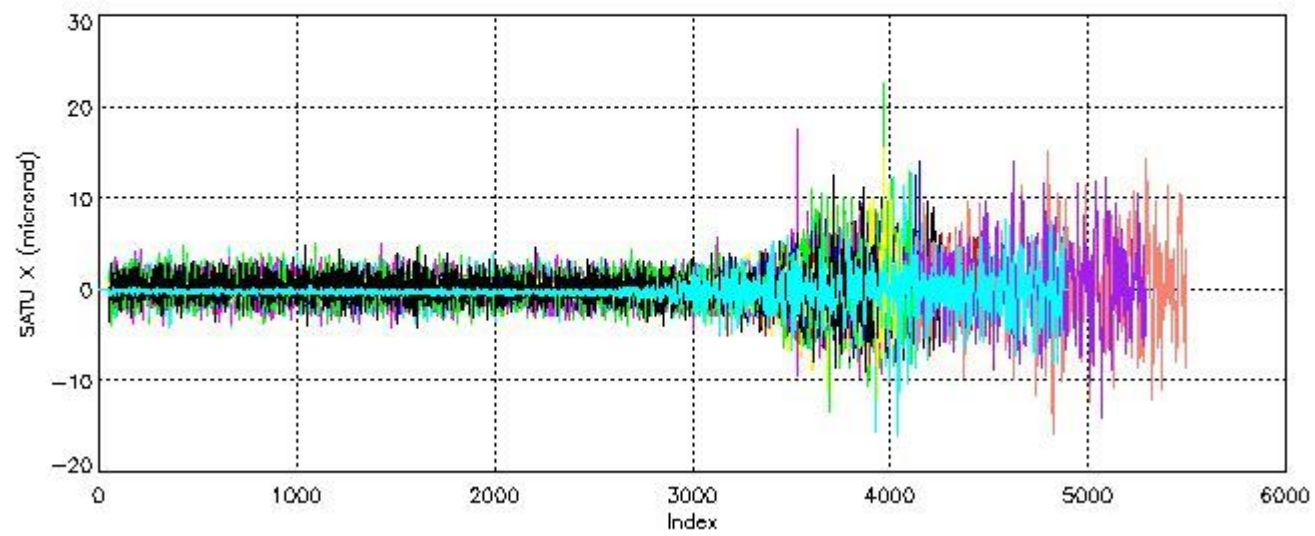


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.067713	-1.2393	0.043523	-1.3775
St. deviation:	0.50469	0.63534	0.81208	0.92046
Maximum:	4.3000	2.8000	5.6000	3.9000
Minimum:	-4.0000	-5.9000	-5.8000	-7.1000

Number of data:	15350.	15350.	17200.	17200.
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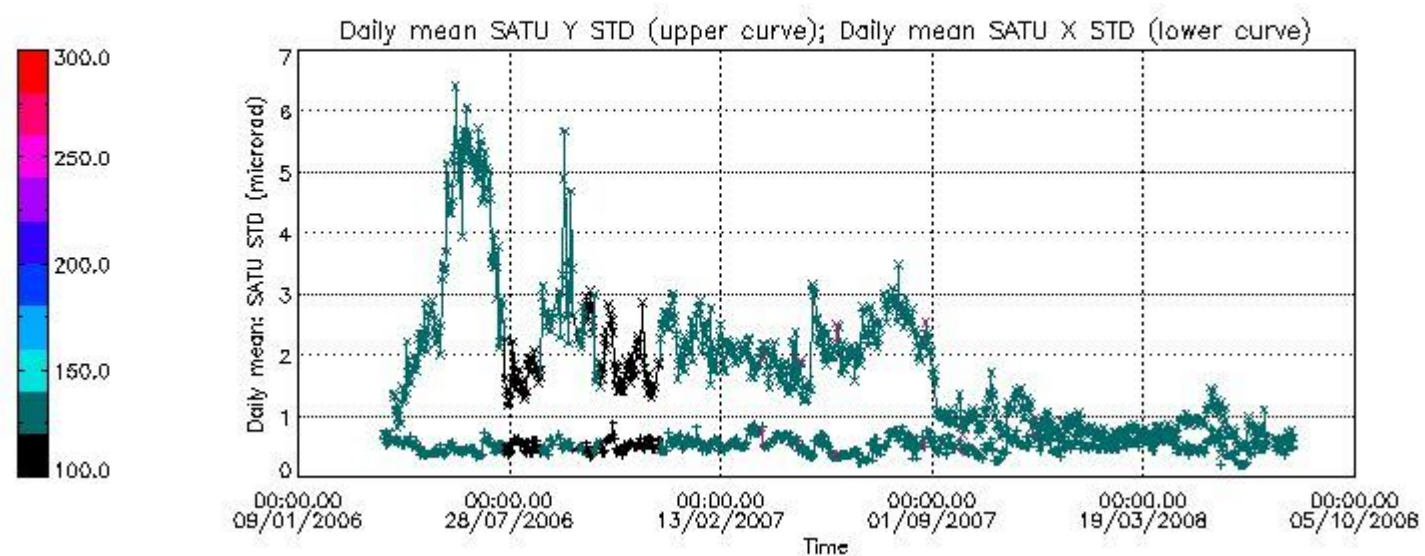
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

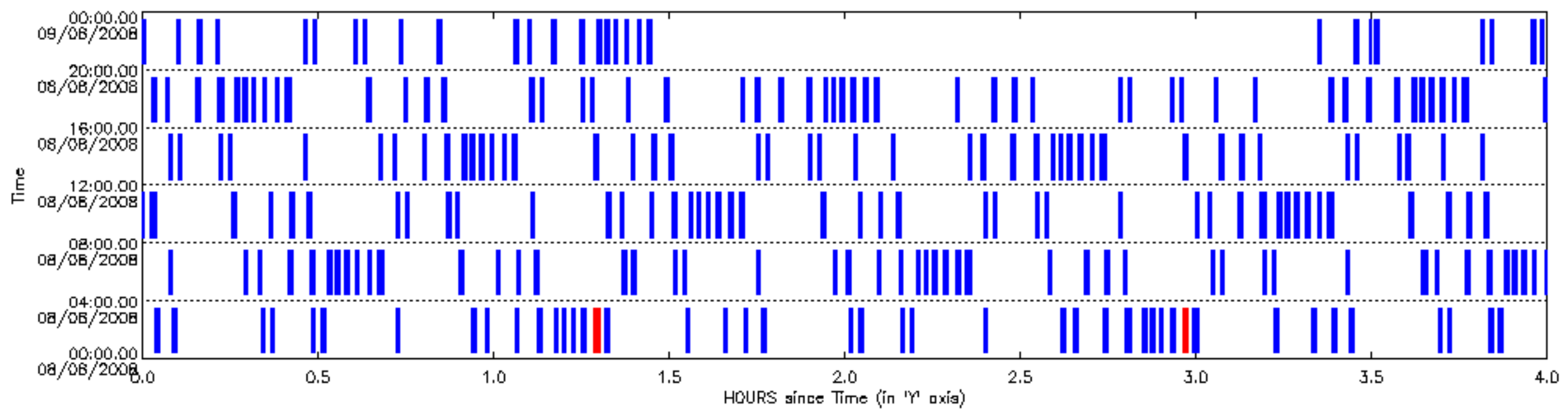


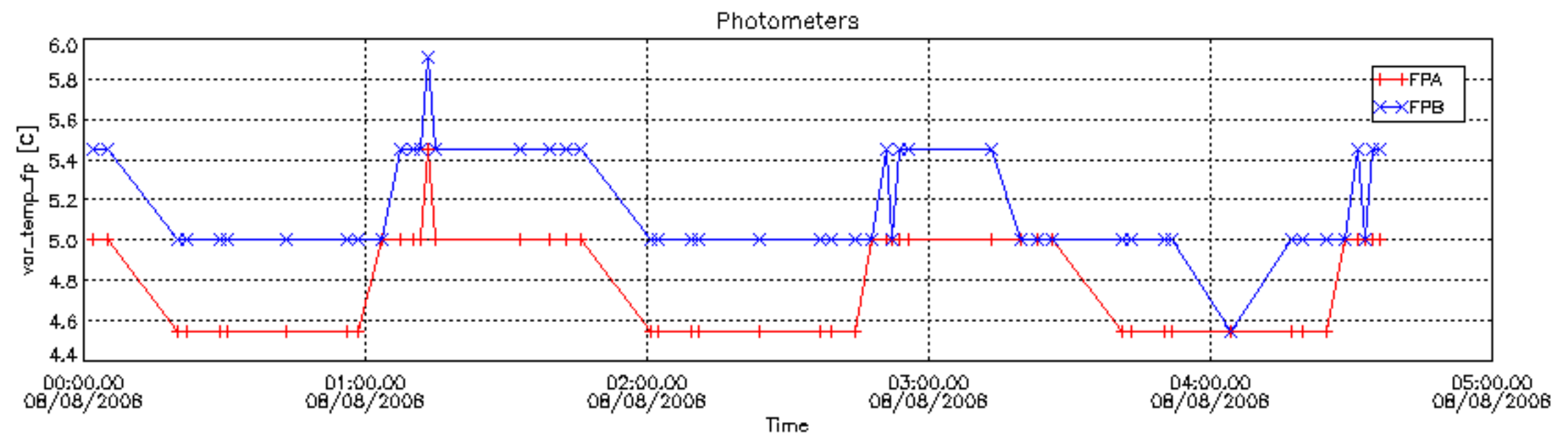
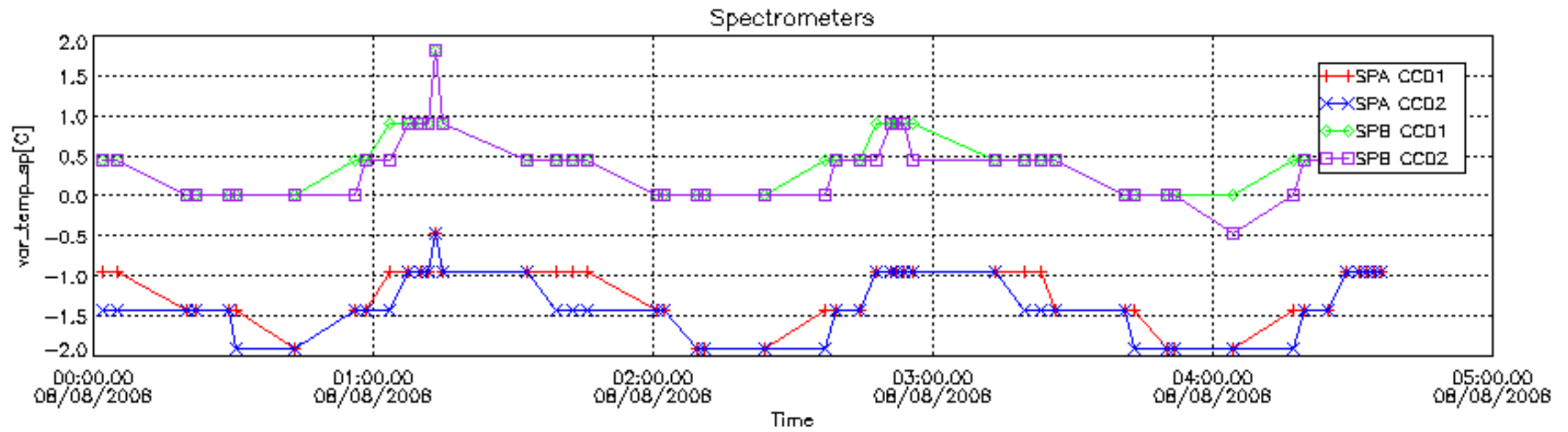
### 8. Auxiliary Data Files used for the production reported in section 2.4

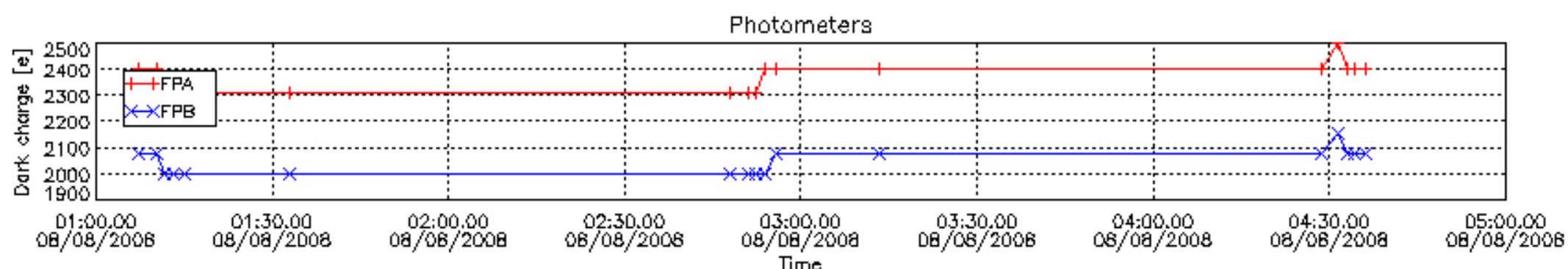
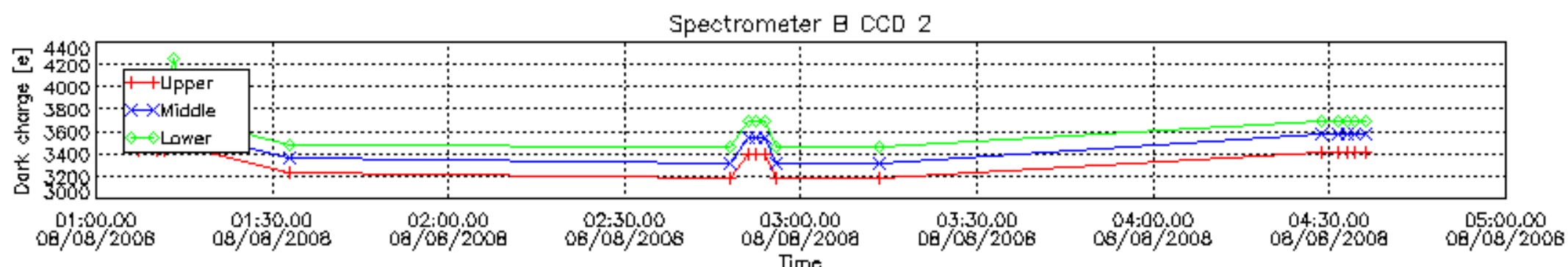
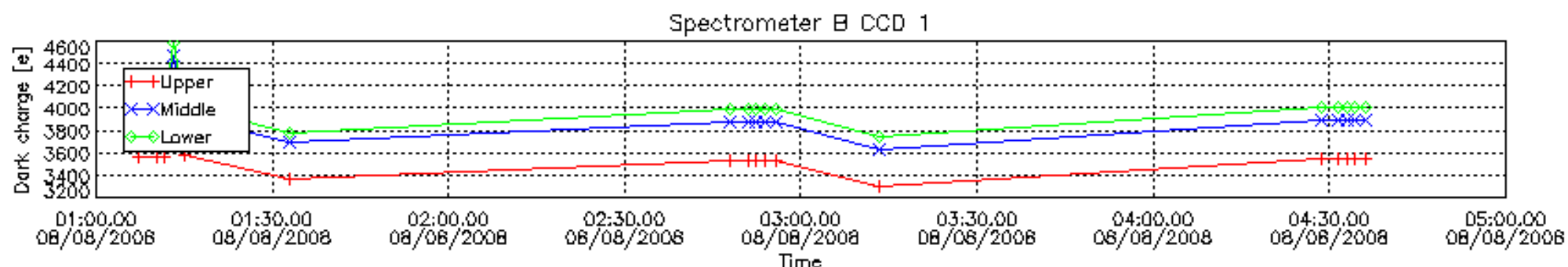
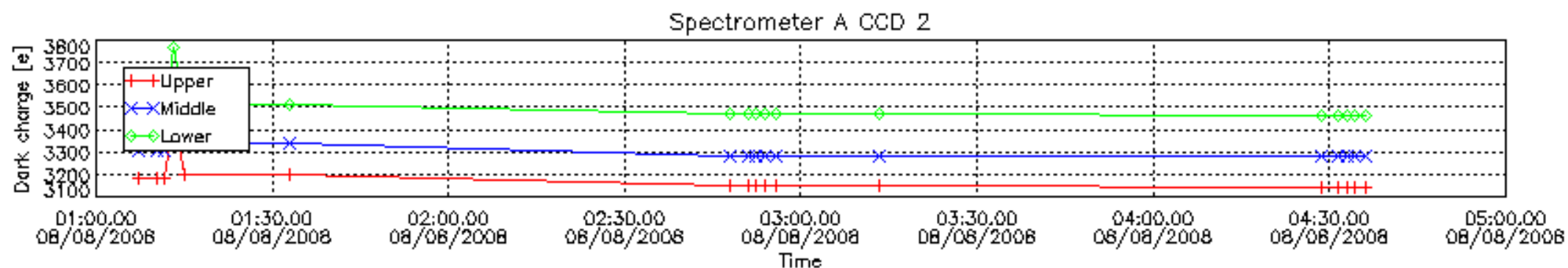
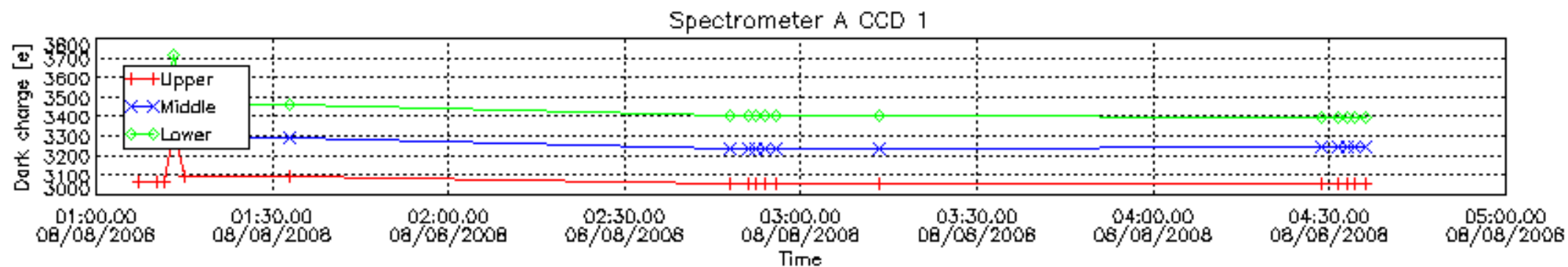
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-AUG-2008 00:02:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-AUG-2008 00:02:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-AUG-2008 00:02:01
ECMWF_FILE	AUX_ECF_AXNECM20080807_072111_20080807_210000_20080808_090000	1	08-AUG-2008 00:02:01
ECMWF_FILE	AUX_ECF_AXNECM20080807_190111_20080808_030000_20080808_150000	42	08-AUG-2008 04:17:23
OPTIONAL_ECMWF_FILE	MISSING	1	08-AUG-2008 00:02:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080807_214904_000057382071_00043_33664_6108.N1	1	08-AUG-2008 00:02:01
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080808_011058_000044632071_00045_33666_6110.N1	25	08-AUG-2008 02:36:47
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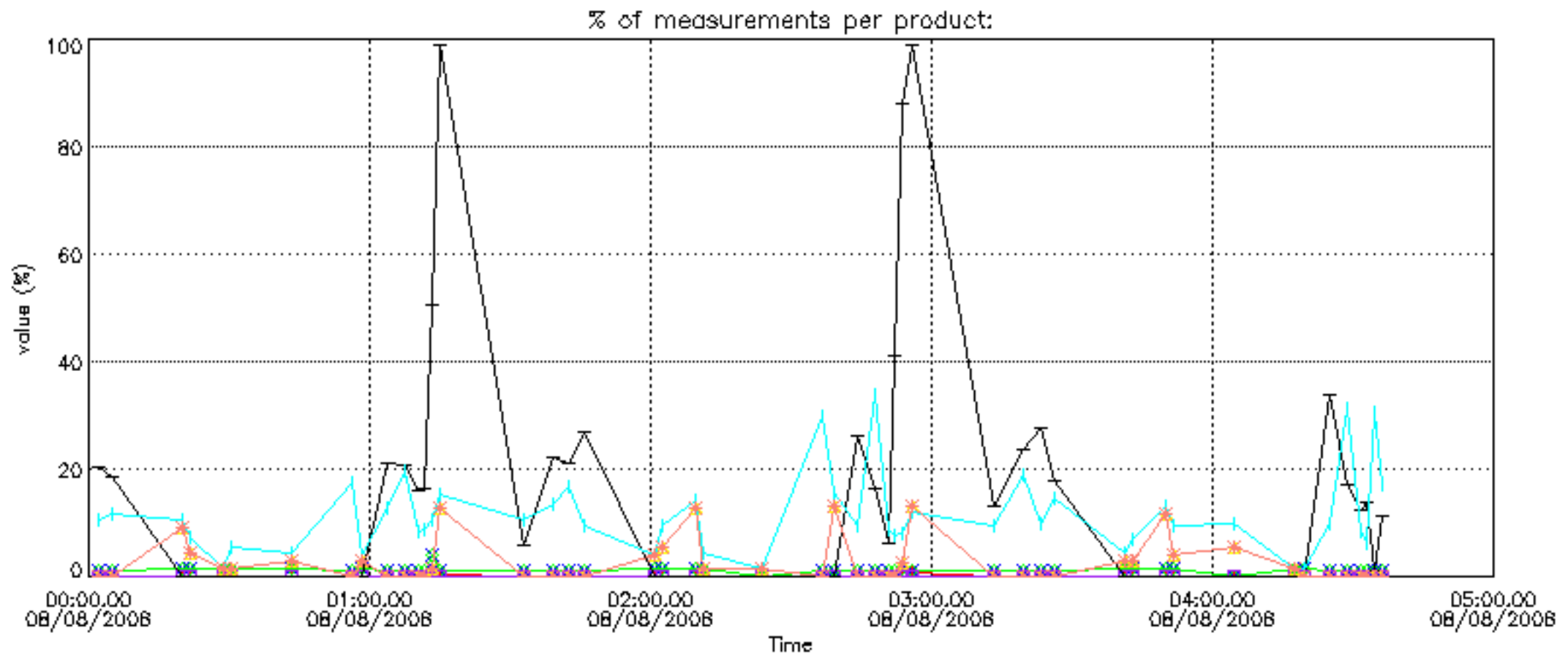




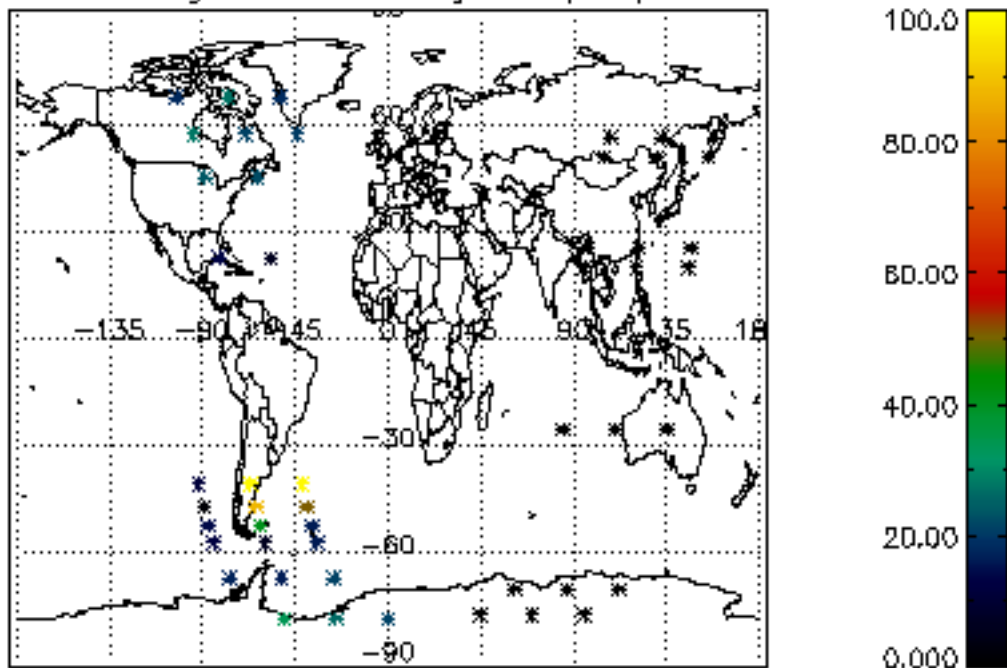




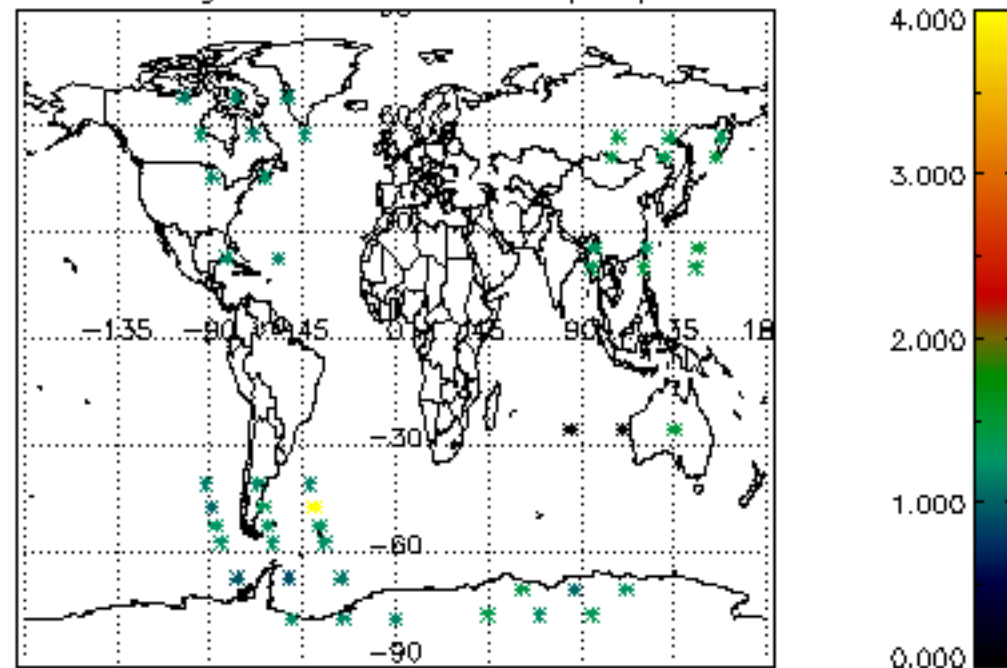




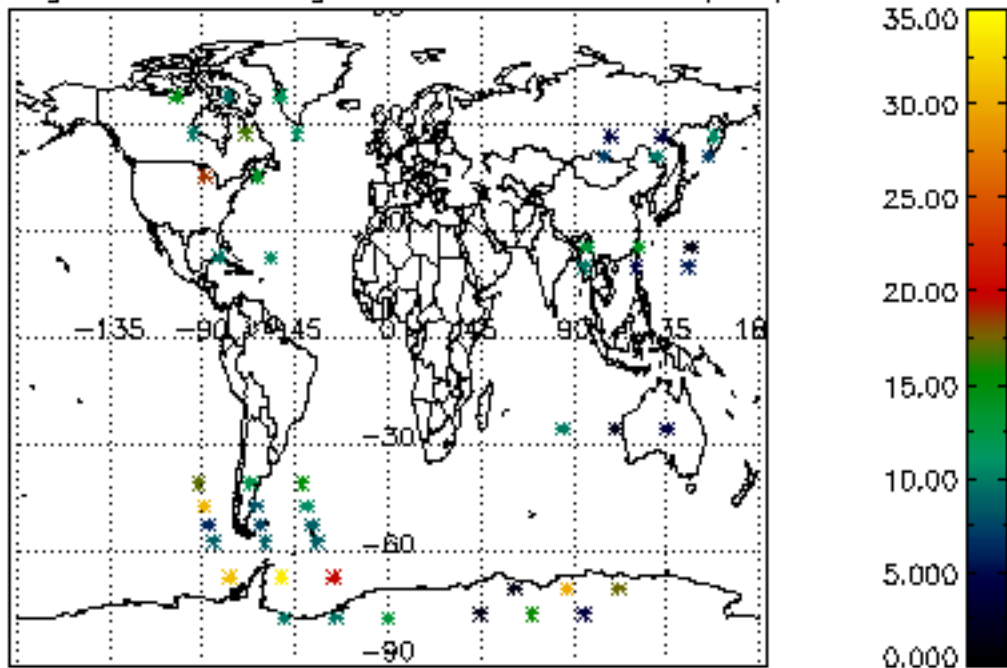
Percentage of cosmic ray hits per profile



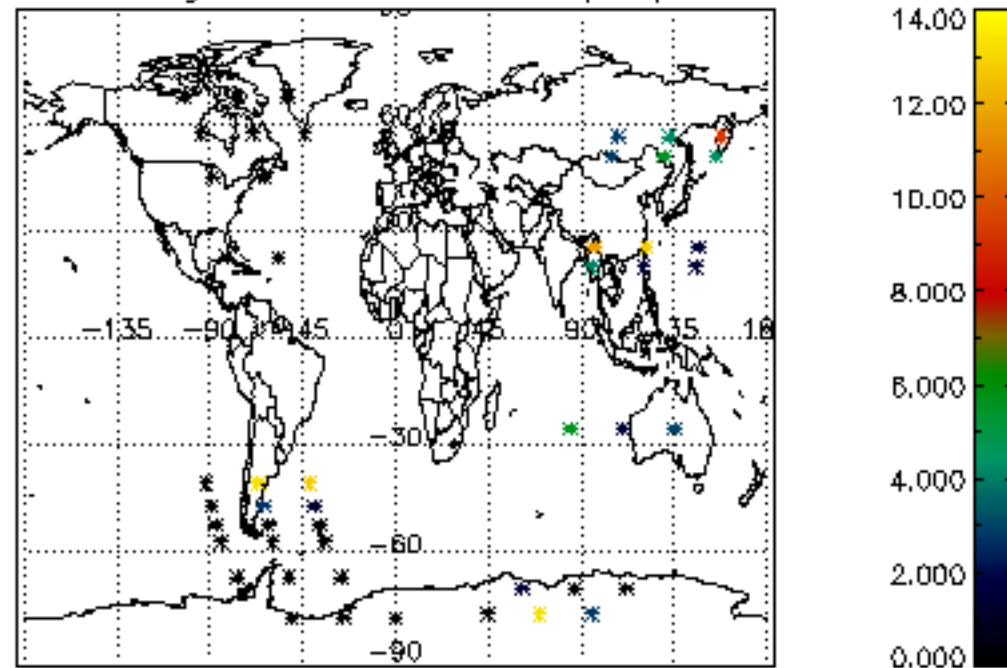
Percentage of datation errors per profile



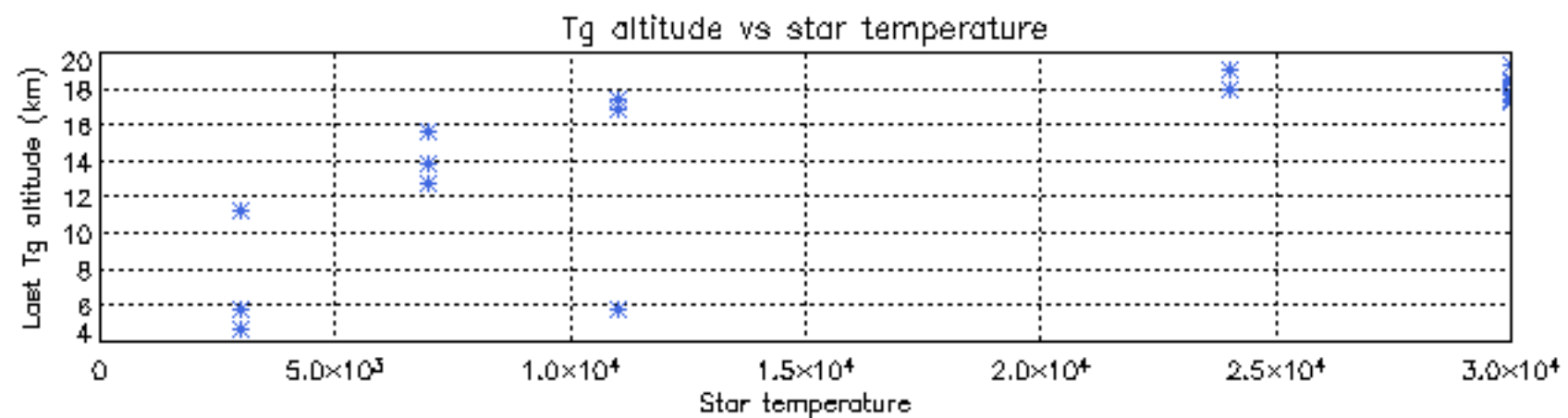
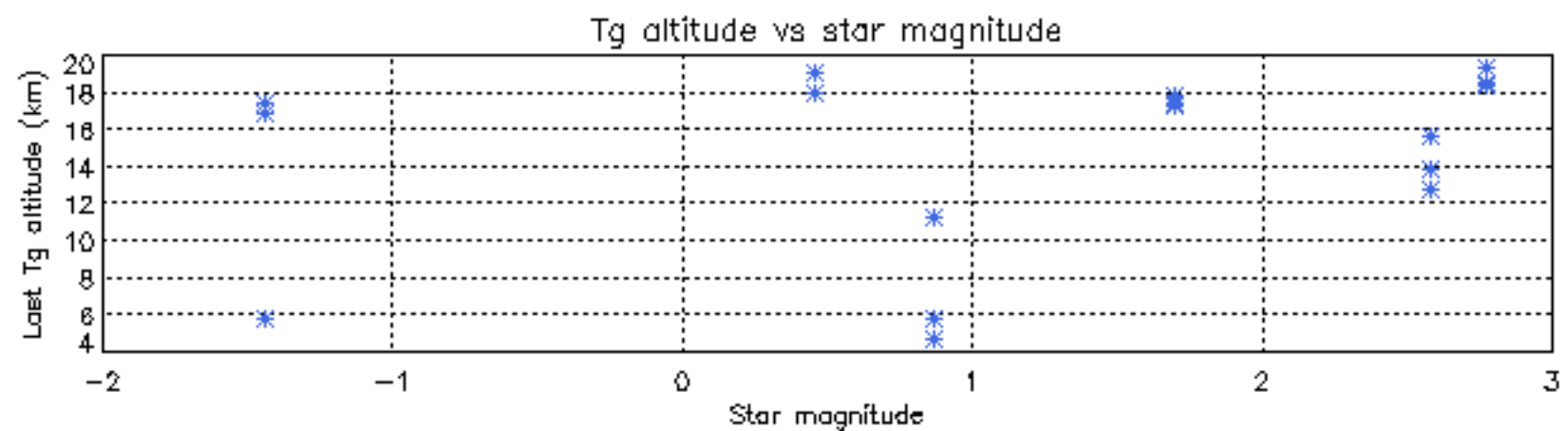
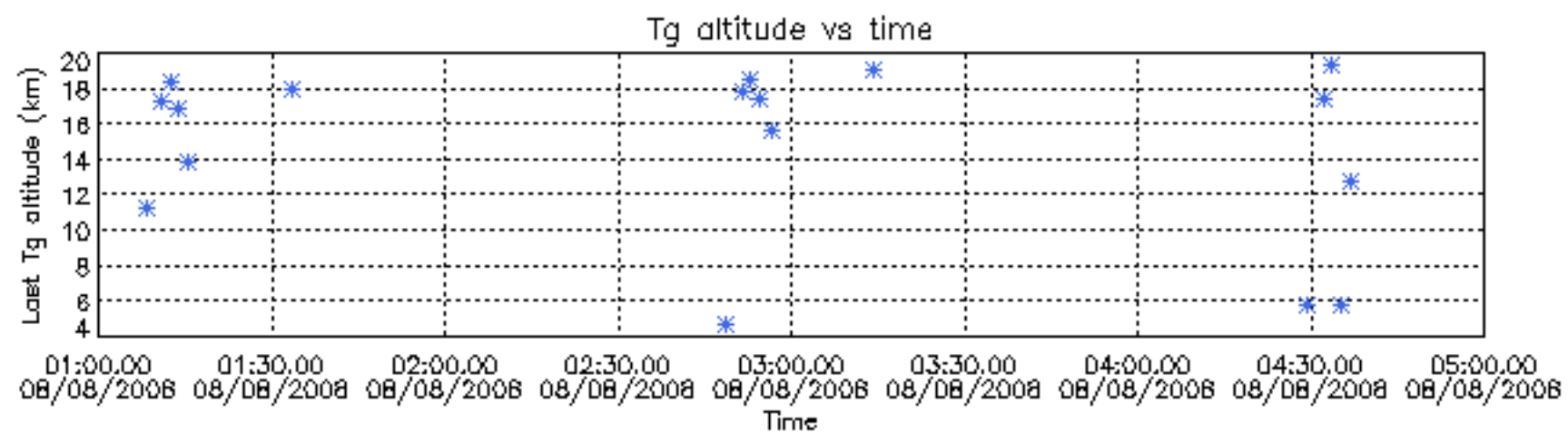
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

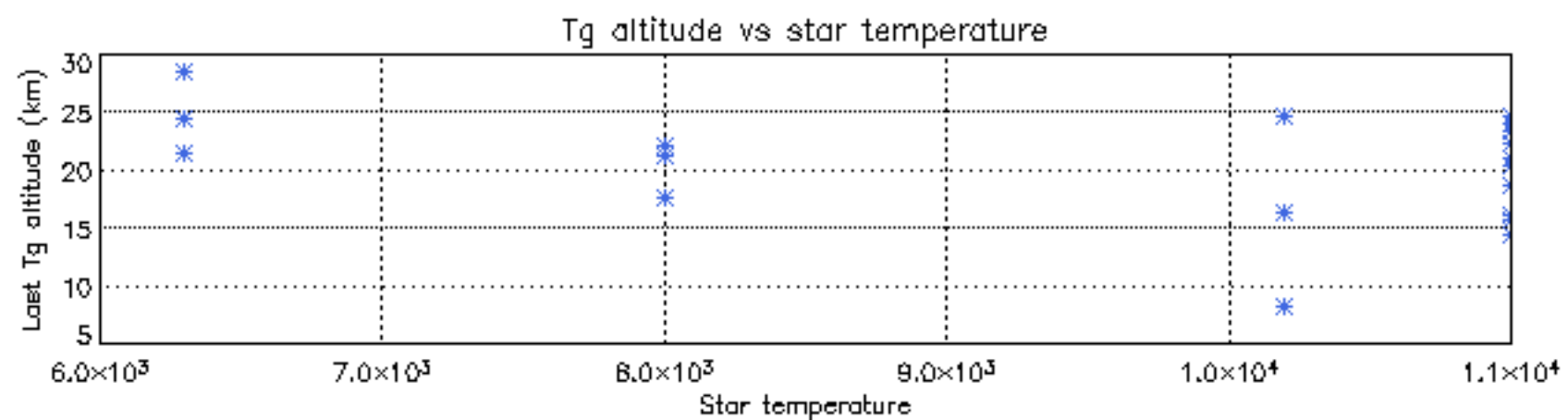
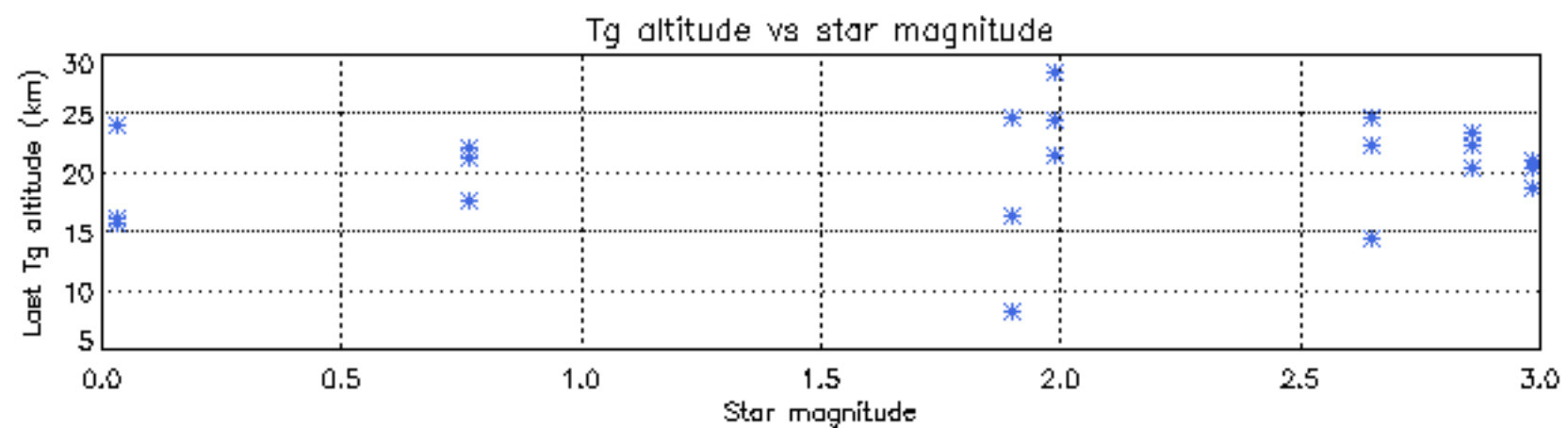
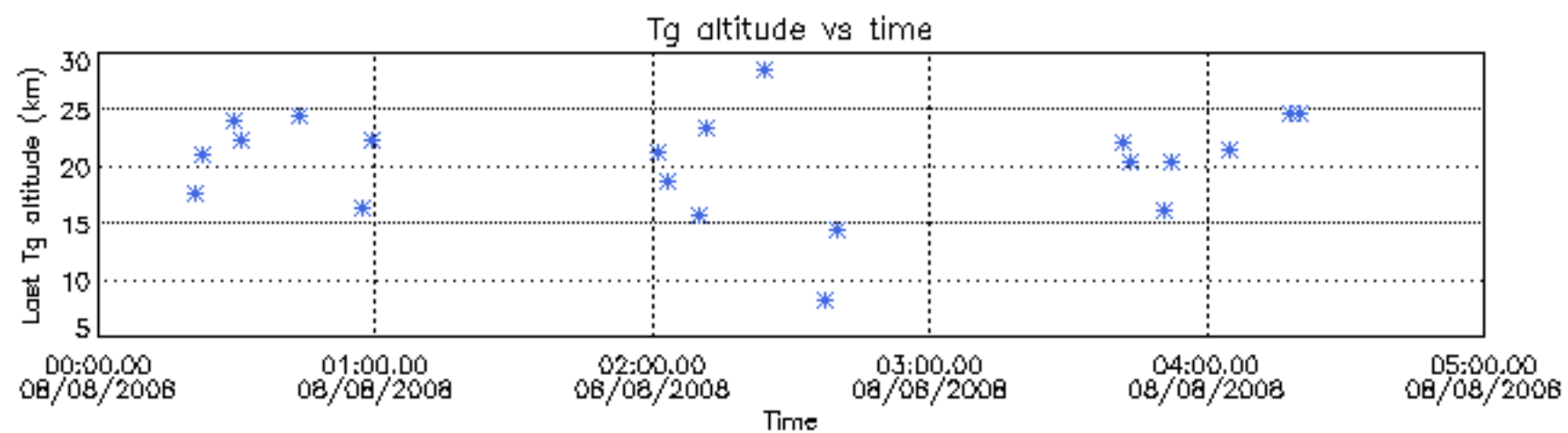


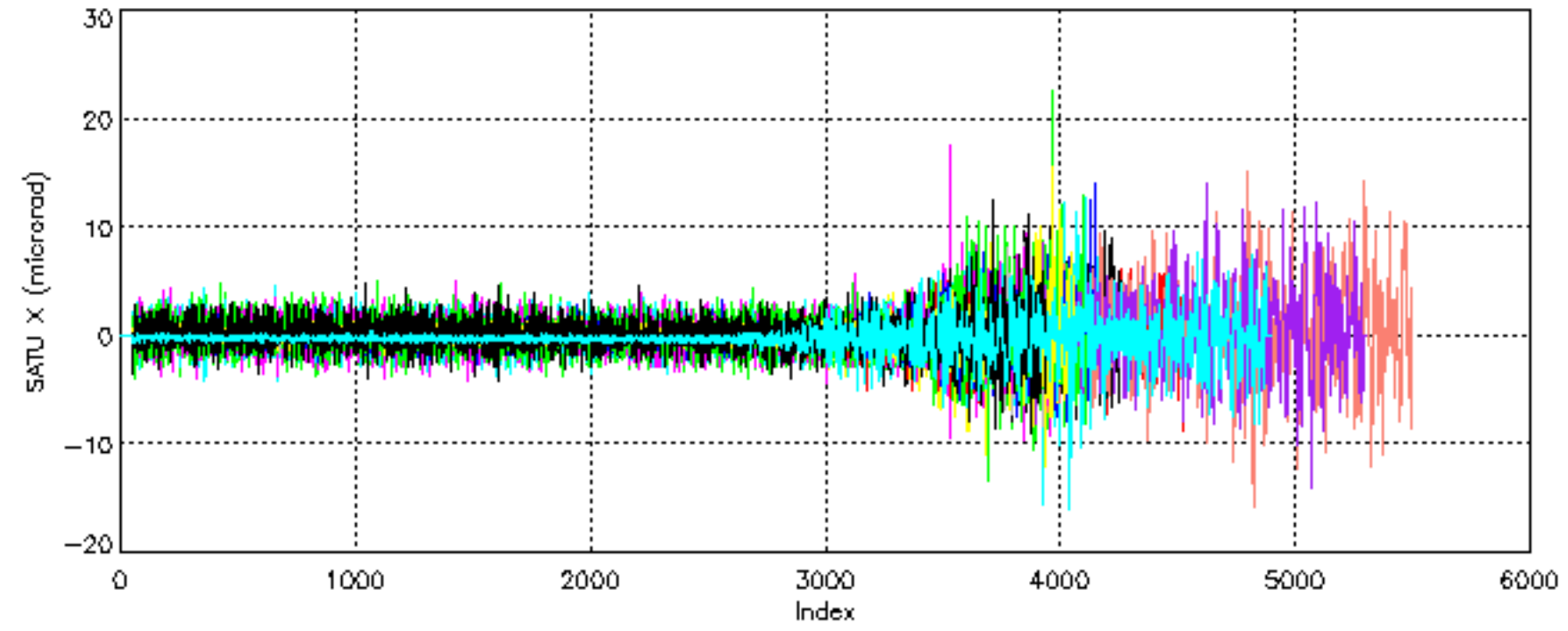
Tangent altitude at which the star is lost

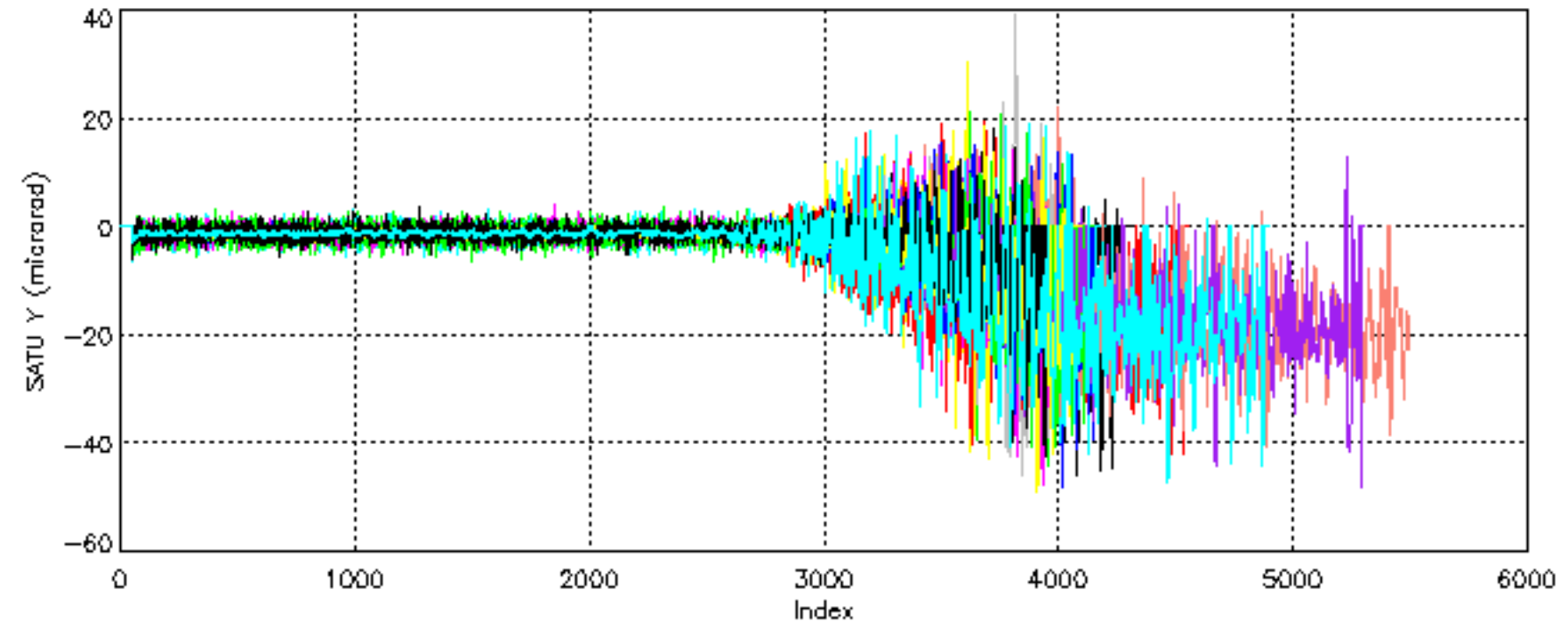




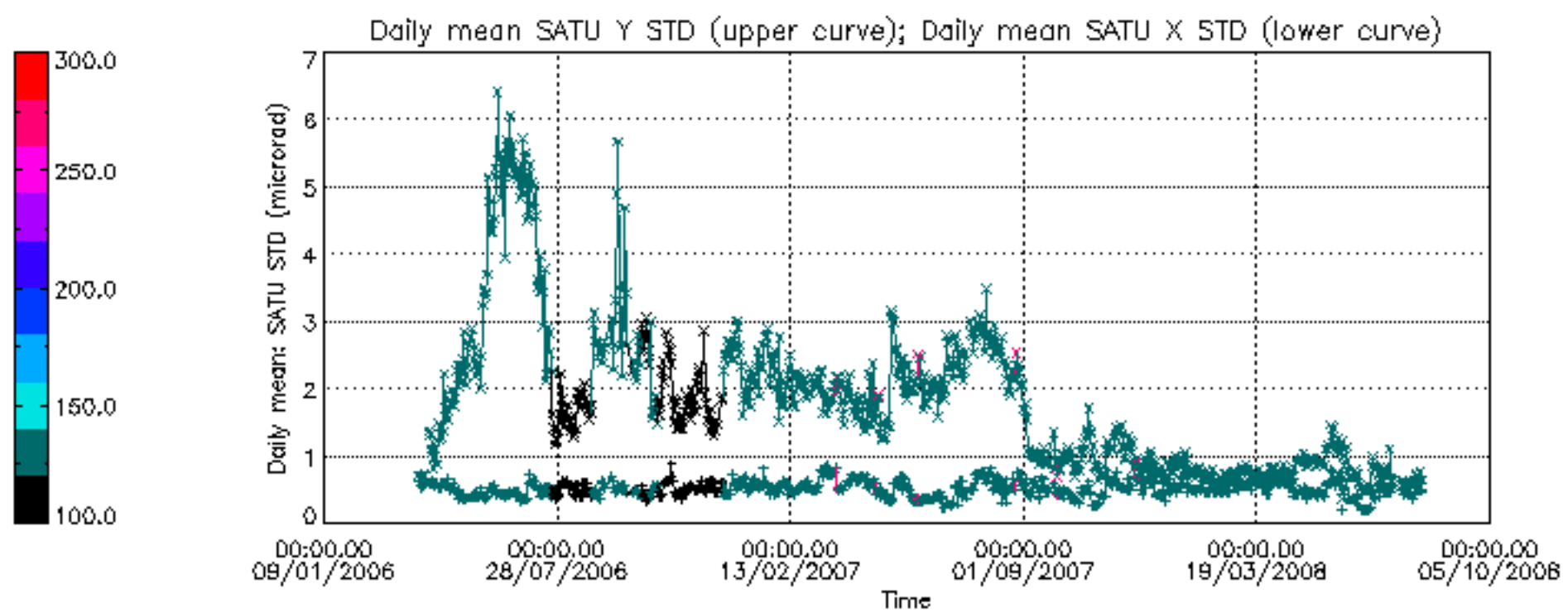
Tangent altitude at which the star is lost











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13; 5256.2; 12-AUG-2008 17:33:35; Dark ; 36.5; 1; 9Alp CMA ; -1.44; 11000;occ; 73; 0;33733
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6; 3438.6; 13-AUG-2008 09:49:17; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33743  
7; 4220.7; 13-AUG-2008 10:02:19; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;33743  
8; 4364.7; 13-AUG-2008 10:04:43; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;33743  
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9; 4713.4; 13-AUG-2008 11:51:07; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33744  
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16; 7038.2; 13-AUG-2008 12:29:52; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33744  
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4; 2702.4; 13-AUG-2008 12:58:12; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33745  
5; 3025.7; 13-AUG-2008 13:03:35; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33745  
6; 3438.6; 13-AUG-2008 13:10:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33745  
7; 4220.7; 13-AUG-2008 13:23:31; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;33745  
8; 4364.8; 13-AUG-2008 13:25:55; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33745  
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12; 5259.6; 13-AUG-2008 13:40:49; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33745  
13; 5359.6; 13-AUG-2008 13:42:29; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;33745  
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4; 3025.4; 13-AUG-2008 14:44:11; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33746  
5; 3438.7; 13-AUG-2008 14:51:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33746  
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7; 4364.9; 13-AUG-2008 15:06:31; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;33746

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13; 3019.4; 15-AUG-2008 01:56:40; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33767  
14; 3438.3; 15-AUG-2008 02:03:38; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33767

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6; -424.3; 15-AUG-2008 02:39:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33767  
7; -174.4; 15-AUG-2008 02:44:02; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;33767  
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9; 797.9; 15-AUG-2008 03:00:14; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;33768  
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11; 1190.1; 15-AUG-2008 03:06:46; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33768  
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13; 2505.1; 15-AUG-2008 03:28:41; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33768  
14; 2599.4; 15-AUG-2008 03:30:15; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33768  
15; 2675.2; 15-AUG-2008 03:31:31; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;33768  
16; 3019.2; 15-AUG-2008 03:37:15; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;33768  
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3; -769.5; 15-AUG-2008 04:14:42; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;33768  
4; -671.3; 15-AUG-2008 04:16:21; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33768  
5; -584.0; 15-AUG-2008 04:17:48; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33768  
6; -423.9; 15-AUG-2008 04:20:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33768  
7; -174.1; 15-AUG-2008 04:24:38; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;33768  
8; 449.8; 15-AUG-2008 04:35:02; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33769  
9; 798.2; 15-AUG-2008 04:40:50; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33769  
10; 1011.5; 15-AUG-2008 04:44:23; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33769  
11; 1190.3; 15-AUG-2008 04:47:22; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33769  
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13; 2504.8; 15-AUG-2008 05:09:17; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33769  
14; 2599.2; 15-AUG-2008 05:10:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33769  
15; 2675.1; 15-AUG-2008 05:12:07; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33769  
16; 3018.9; 15-AUG-2008 05:17:51; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33769  
17; 3438.3; 15-AUG-2008 05:24:50; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33769

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8; 450.5; 15-AUG-2008 06:15:38; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33770  
9; 798.5; 15-AUG-2008 06:21:26; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;33770  
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11; 1190.7; 15-AUG-2008 06:27:59; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;33770  
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13; 2504.6; 15-AUG-2008 06:49:53; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33770  
14; 2599.0; 15-AUG-2008 06:51:27; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33770  
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6; 2675.1; 15-AUG-2008 20:17:31; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33778
7; 3016.3; 15-AUG-2008 20:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;33778
8; 3438.0; 15-AUG-2008 20:30:13; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33778
9; 4626.2; 15-AUG-2008 20:50:02; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33778
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3; -581.7; 15-AUG-2008 21:03:50; Dark ; 37.0; 23; 21Eps CMA ; 1.50; 26000;occ; 74; 0;33778
4; -419.9; 15-AUG-2008 21:06:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33778
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4; 1015.5; 15-AUG-2008 23:11:03; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;33780
5; 1252.6; 15-AUG-2008 23:15:00; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;33780
6; 1591.9; 15-AUG-2008 23:20:39; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33780
7; 2113.3; 15-AUG-2008 23:29:20; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;33780
8; 2502.4; 15-AUG-2008 23:35:50; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33780
9; 2597.8; 15-AUG-2008 23:37:25; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33780
10; 2694.8; 15-AUG-2008 23:39:02; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33780
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13; 4193.4; 16-AUG-2008 00:04:01; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;33780
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17; 4932.8; 16-AUG-2008 00:16:20; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33780
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19; 5210.1; 16-AUG-2008 00:20:57; Dark ; 43.0; 125; 44Iot Ori ; 2.77; 30000;occ; 86; 0;33780
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4; -670.7; 15-AUG-2008 07:37:33; Dark ; 37.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 75; 0;33770
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13; 5862.4; 15-AUG-2008 09:26:26; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;33771
14; 6487.9; 15-AUG-2008 09:36:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33771
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8; 4720.1; 15-AUG-2008 10:48:00; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33772
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16; 7049.0; 15-AUG-2008 11:26:49; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;33772
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2; 2503.7; 15-AUG-2008 13:32:15; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33774
3; 2598.6; 15-AUG-2008 13:33:50; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;33774
4; 2675.0; 15-AUG-2008 13:35:07; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;33774
5; 3017.5; 15-AUG-2008 13:40:49; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33774
6; 3438.3; 15-AUG-2008 13:47:50; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33774
7; 4625.4; 15-AUG-2008 14:07:37; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;33774
8; 4720.6; 15-AUG-2008 14:09:12; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33774
9; 5268.3; 15-AUG-2008 14:18:20; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33774
10; 5366.1; 15-AUG-2008 14:19:58; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;33774
11; 5453.4; 15-AUG-2008 14:21:25; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33774
12; 5614.4; 15-AUG-2008 14:24:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33774
13; 5863.3; 15-AUG-2008 14:28:15; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;33774
14; 6489.9; 15-AUG-2008 14:38:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33774
15; 6836.1; 15-AUG-2008 14:44:28; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33774
16; 7049.6; 15-AUG-2008 14:48:01; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;33774
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3; 2598.5; 15-AUG-2008 15:14:26; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33775
4; 2675.1; 15-AUG-2008 15:15:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33775
5; 3017.3; 15-AUG-2008 15:21:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33775
6; 3438.2; 15-AUG-2008 15:28:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33775
7; 4625.6; 15-AUG-2008 15:48:13; Dark ; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;33775
8; 4720.9; 15-AUG-2008 15:49:48; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33775
9; 5268.7; 15-AUG-2008 15:58:56; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33775
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11; 5614.8; 15-AUG-2008 16:04:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33775
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13; 6490.7; 15-AUG-2008 16:19:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33775
14; 6836.4; 15-AUG-2008 16:25:04; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;33775
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2; 2064.9; 15-AUG-2008 16:46:08; Bright; 35.5; 11; 53Alp Aql ; 0.76; 8000;occ; 71; 0;33776

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3; 2503.4; 15-AUG-2008 16:53:27; Bright; 40.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 80; 0;33776  
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 6; 3017.0; 15-AUG-2008 17:02:00; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33776  
 7; 3438.2; 15-AUG-2008 17:09:02; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33776  
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 9; 4721.1; 15-AUG-2008 17:30:25; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33776  
 10; 5269.0; 15-AUG-2008 17:39:32; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;33776  
 11; 5615.2; 15-AUG-2008 17:45:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33776  
 12; 5863.9; 15-AUG-2008 17:49:27; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33776  
 13; 6491.3; 15-AUG-2008 17:59:55; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33776  
 14; 6836.8; 15-AUG-2008 18:05:40; Dark ; 46.0; 148; Alp Tuc ; 2.88; 4100;occ; 92; 0;33776  
 15; 7050.4; 15-AUG-2008 18:09:14; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;33776

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 4; 2503.2; 15-AUG-2008 18:34:03; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33777  
 5; 2598.2; 15-AUG-2008 18:35:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33777  
 6; 2675.2; 15-AUG-2008 18:36:55; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33777  
 7; 3016.8; 15-AUG-2008 18:42:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;33777  
 8; 3438.1; 15-AUG-2008 18:49:38; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33777  
 9; 4626.0; 15-AUG-2008 19:09:25; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;33777  
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 13; 5454.1; 15-AUG-2008 19:23:13; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;33777  
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 16; 6492.0; 15-AUG-2008 19:40:31; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33777  
 17; 6837.0; 15-AUG-2008 19:46:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33777  
 18; 7050.9; 15-AUG-2008 19:49:50; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;33777

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 5; 458.0; 16-AUG-2008 00:42:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33781  
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 7; 1015.8; 16-AUG-2008 00:51:39; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33781  
 8; 1252.8; 16-AUG-2008 00:55:36; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;33781  
 9; 1592.0; 16-AUG-2008 01:01:15; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;33781  
 10; 2113.0; 16-AUG-2008 01:09:56; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33781  
 11; 2502.2; 16-AUG-2008 01:16:25; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33781  
 12; 2597.6; 16-AUG-2008 01:18:01; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33781  
 13; 2694.4; 16-AUG-2008 01:19:37; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;33781  
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 16; 4193.2; 16-AUG-2008 01:44:36; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;33781  
 17; 4367.4; 16-AUG-2008 01:47:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33781  
 18; 4553.7; 16-AUG-2008 01:50:37; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33781  
 19; 4722.2; 16-AUG-2008 01:53:25; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;33781  
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 3; -730.4; 16-AUG-2008 02:03:09; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;33781  
 4; -618.8; 16-AUG-2008 02:05:00; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33781  
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 7; 458.8; 16-AUG-2008 02:22:58; Dark ; 54.5; 9; Alp Eri ; 0.45; 24000;occ; 109; 0;33782  
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 9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33782  
 10; 1253.4; 16-AUG-2008 02:36:12; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33782  
 11; 1592.3; 16-AUG-2008 02:41:51; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33782  
 12; 1799.9; 16-AUG-2008 02:45:19; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33782  
 13; 2112.8; 16-AUG-2008 02:50:32; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33782



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 3;-1482.0; 16-AUG-2008 03:31:13; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33782
 4;-1313.5; 16-AUG-2008 03:34:01; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;33782
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14; 1016.8; 16-AUG-2008 04:12:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33783
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17; 1800.0; 16-AUG-2008 04:25:55; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;33783
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22; 3015.2; 16-AUG-2008 04:46:10; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33783
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13; 805.1; 16-AUG-2008 05:49:56; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33784
14; 1017.1; 16-AUG-2008 05:53:28; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33784
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16; 1592.6; 16-AUG-2008 06:03:03; Bright; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;33784
17; 1800.0; 16-AUG-2008 06:06:31; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33784
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19; 2501.9; 16-AUG-2008 06:18:13; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33784
20; 2597.6; 16-AUG-2008 06:19:48; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33784
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13; 5146.6; 18-AUG-2008 09:20:15; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;33814
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 11; 4731.1; 18-AUG-2008 10:53:56; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33815  
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 22; 4737.0; 19-AUG-2008 23:47:12; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33837  
 23; 4959.6; 19-AUG-2008 23:50:54; Dark ; 61.5; 14; 58Alp Ori ; 0.87; 3000;occ; 123; 0;33837  
 24; 5045.1; 19-AUG-2008 23:52:20; Dark ; 54.0; 27; 24Gam Ori ; 1.64; 26000;occ; 108; 0;33837  
 25; 5162.3; 19-AUG-2008 23:54:17; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;33837  
 26; 5290.4; 19-AUG-2008 23:56:25; Dark ; 48.5; 1; 9Alp CMA ;-1.44; 11000;occ; 97; 0;33837

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1; -577.9; 19-AUG-2008 23:59:13; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;33837  
 2; -404.5; 20-AUG-2008 00:02:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33837  
 3; 280.9; 20-AUG-2008 00:13:31; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;33838  
 4; 496.6; 20-AUG-2008 00:17:07; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33838  
 5; 848.3; 20-AUG-2008 00:22:59; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;33838  
 6; 1035.9; 20-AUG-2008 00:26:06; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33838  
 7; 1275.6; 20-AUG-2008 00:30:06; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33838  
 8; 1598.5; 20-AUG-2008 00:35:29; Bright; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;33838  
 9; 1799.4; 20-AUG-2008 00:38:50; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;33838  
 10; 1910.6; 20-AUG-2008 00:40:41; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33838  
 11; 2097.8; 20-AUG-2008 00:43:48; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;33838  
 12; 2493.1; 20-AUG-2008 00:50:24; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33838  
 13; 2593.4; 20-AUG-2008 00:52:04; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33838  
 14; 2685.3; 20-AUG-2008 00:53:36; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;33838  
 15; 3002.0; 20-AUG-2008 00:58:53; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33838  
 16; 3437.1; 20-AUG-2008 01:06:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33838  
 17; 4187.4; 20-AUG-2008 01:18:38; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;33838  
 18; 4371.3; 20-AUG-2008 01:21:42; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;33838  
 19; 4565.5; 20-AUG-2008 01:24:56; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33838  
 20; 4640.2; 20-AUG-2008 01:26:11; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;33838  
 21; 4737.2; 20-AUG-2008 01:27:48; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33838  
 22; 4960.2; 20-AUG-2008 01:31:31; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;33838  
 23; 5045.8; 20-AUG-2008 01:32:56; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33838  
 24; 5163.0; 20-AUG-2008 01:34:54; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33838

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1; -1847.2; 19-AUG-2008 06:52:04; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;33827  
 2; -1665.1; 19-AUG-2008 06:55:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33827  
 3; -1472.8; 19-AUG-2008 06:58:19; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33827  
 4; -1301.7; 19-AUG-2008 07:01:10; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;33827  
 5; -1081.1; 19-AUG-2008 07:04:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33827



6; -997.6; 19-AUG-2008 07:06:14; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33827  
7; -880.6; 19-AUG-2008 07:08:11; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;33827  
8; -793.5; 19-AUG-2008 07:09:38; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33827  
9; -691.0; 19-AUG-2008 07:11:20; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;33827  
10; -585.6; 19-AUG-2008 07:13:06; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33827  
11; -412.7; 19-AUG-2008 07:15:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33827  
12; 269.0; 19-AUG-2008 07:27:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;33828  
13; 489.9; 19-AUG-2008 07:31:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33828  
14; 840.7; 19-AUG-2008 07:36:52; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;33828  
15; 1032.7; 19-AUG-2008 07:40:04; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33828  
16; 1271.9; 19-AUG-2008 07:44:03; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33828  
17; 1597.6; 19-AUG-2008 07:49:29; Bright; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;33828

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1; 1799.4; 19-AUG-2008 07:52:51; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33828  
2; 1912.6; 19-AUG-2008 07:54:44; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33828  
3; 2100.2; 19-AUG-2008 07:57:52; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33828  
4; 2494.5; 19-AUG-2008 08:04:26; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33828  
5; 2594.1; 19-AUG-2008 08:06:05; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33828  
6; 2686.9; 19-AUG-2008 08:07:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33828  
7; 3004.3; 19-AUG-2008 08:12:56; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33828  
8; 3437.5; 19-AUG-2008 08:20:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33828  
9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828  
10; 4370.9; 19-AUG-2008 08:35:42; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33828  
11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828  
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828  
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828  
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828  
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828  
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828  
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828  
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828  
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33828  
20; 6306.1; 19-AUG-2008 09:07:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33828  
21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828  
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828  
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828  
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828  
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828  
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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1; 1799.5; 19-AUG-2008 09:33:27; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33829  
2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829  
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829  
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829  
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829  
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829  
7; 3004.0; 19-AUG-2008 09:53:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33829  
8; 3437.5; 19-AUG-2008 10:00:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33829  
9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829  
10; 4370.9; 19-AUG-2008 10:16:18; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33829  
11; 4563.6; 19-AUG-2008 10:19:31; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33829  
12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829  
13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829  
14; 5039.7; 19-AUG-2008 10:27:27; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;33829  
15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829  
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829  
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829  
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829  
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829  
20; 6307.3; 19-AUG-2008 10:48:35; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33829  
21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829  
22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829  
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829  
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829  
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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1; 1799.3; 19-AUG-2008 11:14:03; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33830  
2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830

3;	2099.6;	19-AUG-2008	11:19:03;	Bright;	41.0;	61;	8Eps Peg	; 2.10;	3900;occ;	82;	0;33830
4;	2494.1;	19-AUG-2008	11:25:37;	Bright;	36.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	72;	0;33830
5;	2593.9;	19-AUG-2008	11:27:17;	Bright;	37.0;	66;	37Gam Cyg	; 2.21;	5900;occ;	74;	0;33830
6;	2686.6;	19-AUG-2008	11:28:50;	Bright;	38.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	77;	0;33830
7;	3003.8;	19-AUG-2008	11:34:07;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33830
8;	3437.2;	19-AUG-2008	11:41:20;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33830
9;	4188.3;	19-AUG-2008	11:53:51;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;33830
10;	4371.0;	19-AUG-2008	11:56:54;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;occ;	79;	0;33830
11;	4563.7;	19-AUG-2008	12:00:07;	Dark	; 52.0;	28;	12Bet Tau	; 1.65;	15200;occ;	104;	0;33830
12;	4735.0;	19-AUG-2008	12:02:58;	Dark	; 40.0;	44;	24Gam Gem	; 1.93;	11000;occ;	80;	0;33830
13;	4956.2;	19-AUG-2008	12:06:39;	Dark	; 62.0;	14;	58Alp Ori	; 0.87;	3000;occ;	124;	0;33830
14;	5040.3;	19-AUG-2008	12:08:03;	Dark	; 56.0;	27;	24Gam Ori	; 1.64;	26000;occ;	112;	0;33830
15;	5157.4;	19-AUG-2008	12:10:01;	Dark	; 53.0;	30;	46Eps Ori	; 1.69;	30000;occ;	106;	0;33830
16;	5244.6;	19-AUG-2008	12:11:28;	Dark	; 47.5;	125;	44Iot Ori	; 2.77;	30000;occ;	95;	0;33830
17;	5347.7;	19-AUG-2008	12:13:11;	Dark	; 58.0;	7;	19Bet Ori	; 0.10;	14000;occ;	116;	0;33830
18;	5452.6;	19-AUG-2008	12:14:56;	Dark	; 47.0;	101;	11Alp Lep	; 2.58;	7000;occ;	94;	0;33830
19;	5625.6;	19-AUG-2008	12:17:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;33830
20;	6308.4;	19-AUG-2008	12:29:12;	Dark	; 52.0;	157;	The1Eri	; 2.91;	9300;occ;	104;	0;33830
21;	6527.9;	19-AUG-2008	12:32:51;	Dark	; 46.5;	9;	Alp Eri	; 0.45;	24000;occ;	93;	0;33830
22;	6878.9;	19-AUG-2008	12:38:42;	Dark	; 52.5;	84;	Alp Phe	; 2.40;	4500;occ;	105;	0;33830
23;	7069.6;	19-AUG-2008	12:41:53;	Dark	; 39.0;	31;	Alp Gru	; 1.73;	15200;occ;	78;	0;33830
24;	7308.9;	19-AUG-2008	12:45:52;	Dark	; 54.0;	18;	24Alp PsA	; 1.17;	9700;occ;	108;	0;33830
25;	7633.8;	19-AUG-2008	12:51:17;	Bright;	41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;33830
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1;	1618.0;	19-AUG-2008	12:51:37;	Bright;	41.5;	142;	49Del Cap	; 2.85;	8900;occ;	83;	40;33831
2;	1799.4;	19-AUG-2008	12:54:38;	Bright;	40.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	80;	0;33831
3;	1912.0;	19-AUG-2008	12:56:31;	Bright;	45.0;	162;	34Alp Aqr	; 2.94;	5350;occ;	90;	0;33831
4;	2099.4;	19-AUG-2008	12:59:38;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;33831
5;	2494.1;	19-AUG-2008	13:06:13;	Bright;	38.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	77;	0;33831
6;	2593.8;	19-AUG-2008	13:07:53;	Bright;	37.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	75;	0;33831
7;	2686.5;	19-AUG-2008	13:09:26;	Bright;	35.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	70;	0;33831
8;	3003.5;	19-AUG-2008	13:14:43;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;33831
9;	3437.5;	19-AUG-2008	13:21:56;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;33831
10;	4188.2;	19-AUG-2008	13:34:27;	Bright;	48.5;	6;	13Alp Aur	; 0.08;	3400;occ;	97;	0;33831
11;	4371.0;	19-AUG-2008	13:37:30;	Bright;	40.5;	107;	37The Aur	; 2.65;	11000;occ;	81;	0;33831
12;	4564.0;	19-AUG-2008	13:40:43;	Dark	; 55.5;	28;	12Bet Tau	; 1.65;	15200;occ;	111;	0;33831
13;	4735.5;	19-AUG-2008	13:43:35;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;33831
14;	4956.7;	19-AUG-2008	13:47:16;	Dark	; 58.5;	14;	58Alp Ori	; 0.87;	3000;occ;	117;	0;33831
15;	5041.1;	19-AUG-2008	13:48:40;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;33831
16;	5158.2;	19-AUG-2008	13:50:37;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;33831
17;	5245.4;	19-AUG-2008	13:52:04;	Dark	; 48.0;	125;	44Iot Ori	; 2.77;	30000;occ;	96;	0;33831
18;	5348.6;	19-AUG-2008	13:53:48;	Dark	; 59.5;	7;	19Bet Ori	; 0.10;	14000;occ;	119;	0;33831
19;	5453.4;	19-AUG-2008	13:55:32;	Dark	; 48.0;	101;	11Alp Lep	; 2.58;	7000;occ;	96;	0;33831
20;	5626.5;	19-AUG-2008	13:58:25;	Dark	; 59.0;	0;		; 0.00;	0;occ;	118;	0;33831
21;	6309.7;	19-AUG-2008	14:09:49;	Dark	; 53.5;	157;	The1Eri	; 2.91;	9300;occ;	107;	0;33831
22;	6528.6;	19-AUG-2008	14:13:28;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;33831
23;	6879.7;	19-AUG-2008	14:19:19;	Dark	; 54.0;	84;	Alp Phe	; 2.40;	4500;occ;	108;	0;33831
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12; 4217.8; 23-AUG-2008 19:51:28; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;33892  
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 6; 2486.1; 27-AUG-2008 17:16:08; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33948  
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 9; 2982.5; 27-AUG-2008 17:24:24; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33948  
 10; 3435.6; 27-AUG-2008 17:31:57; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33948  
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 12; 4598.9; 27-AUG-2008 17:51:21; Bright; 45.5; 170; 27Eps Gem ; 3.00; 9700;occ; 91; 0;33948  
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 22; 6605.8; 27-AUG-2008 20:05:23; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33949  
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 4; 2486.1; 28-AUG-2008 10:02:07; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33958
 5; 2595.4; 28-AUG-2008 10:03:56; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33958
 6; 2677.4; 28-AUG-2008 10:05:18; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33958
 7; 2981.1; 28-AUG-2008 10:10:22; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;33958
 8; 3435.4; 28-AUG-2008 10:17:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33958
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