

# GOMOS Daily Report 23-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	25AUG2008 05:32:27
Data source version	GOMOS/5.00
Start time of products	23AUG2008 20:35:43
Stop time of products	23AUG2008 23:56:55
Store outputs in DB	Yes
Nb of level 1b prods	46
Nb of prods with errors	1

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

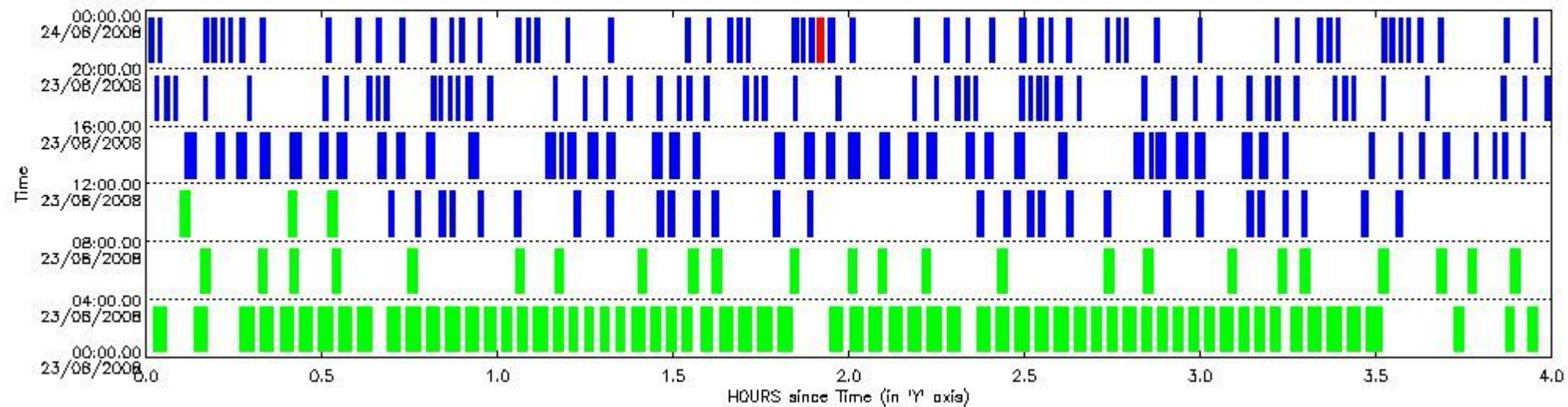
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

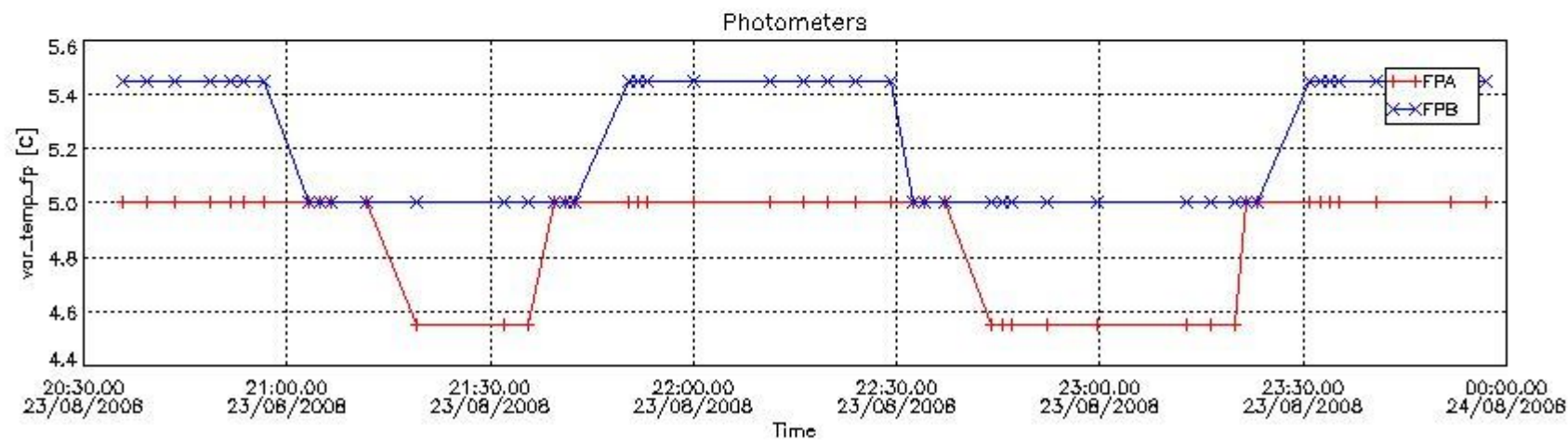
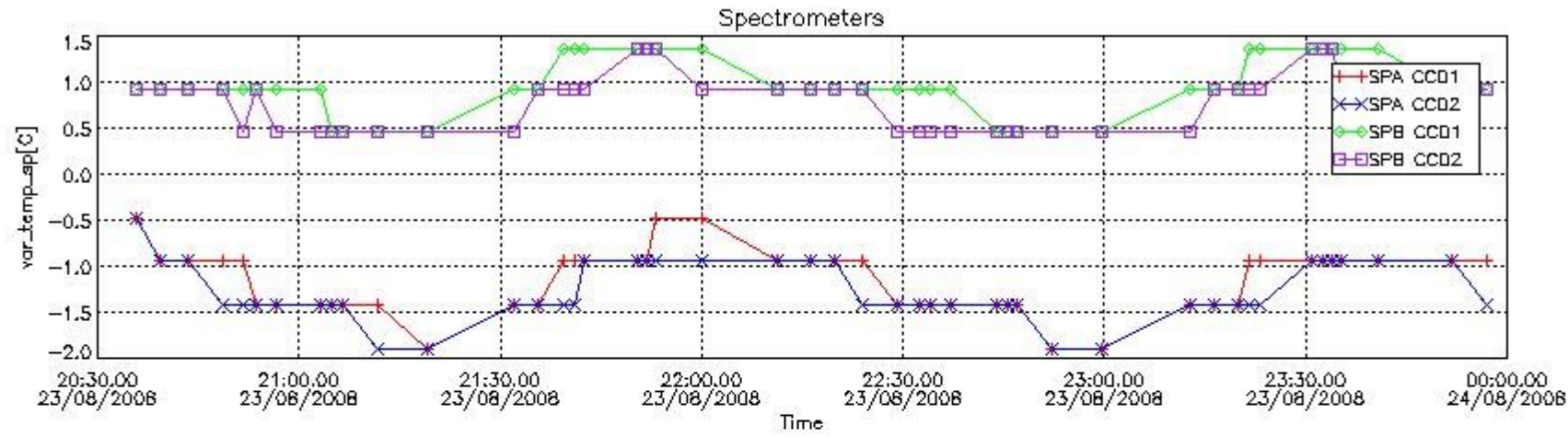
UTC start time	Star name	Star ID	Orbit
23-AUG-2008 21:54:36	1ZetCMa	177	33893

### 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_1PNPDE20080823_203543_000000472071_00272_33893_3722.N1	23-AUG-2008 20:35:43	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	33893	Yes
2	GOM_TRA_1PNPDE20080823_203920_000000452071_00272_33893_3723.N1	23-AUG-2008 20:39:20	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	33893	No
3	GOM_TRA_1PNPDE20080823_204321_000000492071_00272_33893_3724.N1	23-AUG-2008 20:43:21	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	33893	No
4	GOM_TRA_1PNPDE20080823_204831_000000522071_00272_33893_3725.N1	23-AUG-2008 20:48:31	Bright	51.500	142	49Del Cap	2.8500	8900.0	103	33893	No
5	GOM_TRA_1PNPDE20080823_205147_000000402071_00272_33893_3726.N1	23-AUG-2008 20:51:47	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	33893	No
6	GOM_TRA_1PNPDE20080823_205329_000000442071_00272_33893_3727.N1	23-AUG-2008 20:53:29	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	33893	No
7	GOM_TRA_1PNPDE20080823_205633_000000422071_00272_33893_3728.N1	23-AUG-2008 20:56:33	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	33893	No
8	GOM_TRA_1PNPDE20080823_210314_000000382071_00272_33893_3729.N1	23-AUG-2008 21:03:14	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	33893	No
9	GOM_TRA_1PNPDE20080823_210459_000000362071_00272_33893_3730.N1	23-AUG-2008 21:04:59	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	33893	No
10	GOM_TRA_1PNPDE20080823_210626_000000352071_00272_33893_3731.N1	23-AUG-2008 21:06:26	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	33893	No

11	GOM_TRA_1PNPDE20080823_211137_000000392071_00272_33893_3732.N1	23-AUG-2008 21:11:37	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	33893	No
12	GOM_TRA_1PNPDE20080823_211903_000000372071_00272_33893_3733.N1	23-AUG-2008 21:19:03	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	33893	No
13	GOM_TRA_1PNPDE20080823_213204_000000422071_00272_33893_3734.N1	23-AUG-2008 21:32:04	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	33893	No
14	GOM_TRA_1PNPDE20080823_213543_000000352071_00272_33893_3735.N1	23-AUG-2008 21:35:43	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	33893	No
15	GOM_TRA_1PNPDE20080823_213920_000000502071_00272_33893_3736.N1	23-AUG-2008 21:39:20	Twilight	50.000	151	13Mu Gem	2.8900	3000.0	100	33893	No
16	GOM_TRA_1PNPDE20080823_214059_000000472071_00272_33893_3737.N1	23-AUG-2008 21:40:59	Twilight	47.000	44	24Gam Gem	1.9280	11000.	94	33893	No
17	GOM_TRA_1PNPDE20080823_214230_000000382071_00272_33893_3738.N1	23-AUG-2008 21:42:30	Twilight	38.000	153	3Bet CMI	2.8940	13100.	76	33893	No
18	GOM_TRA_1PNPDE20080823_215020_000000542071_00272_33893_3847.N1	23-AUG-2008 21:50:20	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	33893	No
19	GOM_TRA_1PNPDE20080823_215148_000000382071_00272_33893_3848.N1	23-AUG-2008 21:51:48	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	33893	No
20	GOM_TRA_1PNPDE20080823_215316_000000422071_00272_33893_3849.N1	23-AUG-2008 21:53:16	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	33893	No
21	GOM_TRA_1PNPDE20080823_220006_000000452071_00272_33893_3850.N1	23-AUG-2008 22:00:06	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	33893	No
22	GOM_TRA_1PNPDE20080823_221116_000000452071_00273_33894_3851.N1	23-AUG-2008 22:11:16	Dark	44.500	9	Alp Eri	0.45300	24000.	89	33894	No
23	GOM_TRA_1PNPDE20080823_221619_000000462071_00273_33894_3852.N1	23-AUG-2008 22:16:19	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	33894	No
24	GOM_TRA_1PNPDE20080823_221956_000000412071_00273_33894_3853.N1	23-AUG-2008 22:19:56	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	33894	No
25	GOM_TRA_1PNPDE20080823_222358_000000512071_00273_33894_3854.N1	23-AUG-2008 22:23:58	Straylight	51.000	18	24Alp PsA	1.1660	9700.0	102	33894	No
26	GOM_TRA_1PNPDE20080823_222907_000000562071_00273_33894_3855.N1	23-AUG-2008 22:29:07	Bright	56.000	142	49Del Cap	2.8500	8900.0	112	33894	No
27	GOM_TRA_1PNPDE20080823_223223_000000402071_00273_33894_3856.N1	23-AUG-2008 22:32:23	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	33894	No
28	GOM_TRA_1PNPDE20080823_223405_000000442071_00273_33894_3857.N1	23-AUG-2008 22:34:05	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	33894	No
29	GOM_TRA_1PNPDE20080823_223709_000000422071_00273_33894_3858.N1	23-AUG-2008 22:37:09	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	33894	No
30	GOM_TRA_1PNPDE20080823_224350_000000382071_00273_33894_3859.N1	23-AUG-2008 22:43:50	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	33894	No
31	GOM_TRA_1PNPDE20080823_224535_000000342071_00273_33894_3860.N1	23-AUG-2008 22:45:35	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	33894	No
32	GOM_TRA_1PNPDE20080823_224702_000000342071_00273_33894_3861.N1	23-AUG-2008 22:47:02	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	33894	No
33	GOM_TRA_1PNPDE20080823_225213_000000372071_00273_33894_3862.N1	23-AUG-2008 22:52:13	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	33894	No
34	GOM_TRA_1PNPDE20080823_225938_000000362071_00273_33894_3863.N1	23-AUG-2008 22:59:38	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33894	No
35	GOM_TRA_1PNPDE20080823_231240_000000402071_00273_33894_3864.N1	23-AUG-2008 23:12:40	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	33894	No
36	GOM_TRA_1PNPDE20080823_231618_000000352071_00273_33894_3865.N1	23-AUG-2008 23:16:18	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	33894	No
37	GOM_TRA_1PNPDE20080823_231956_000000532071_00273_33894_3866.N1	23-AUG-2008 23:19:56	Twilight	52.500	151	13Mu Gem	2.8900	3000.0	105	33894	No
38	GOM_TRA_1PNPDE20080823_232136_000000452071_00273_33894_3867.N1	23-AUG-2008 23:21:36	Twilight	45.000	44	24Gam Gem	1.9280	11000.	90	33894	No
39	GOM_TRA_1PNPDE20080823_232306_000000392071_00273_33894_3868.N1	23-AUG-2008 23:23:06	Twilight	38.500	153	3Bet CMI	2.8940	13100.	77	33894	No
40	GOM_TRA_1PNPDE20080823_233057_000000472071_00273_33894_4051.N1	23-AUG-2008 23:30:57	Dark	46.500	1	9Alp CMa	-1.4400	11000.	93	33894	No
41	GOM_TRA_1PNPDE20080823_233225_000000382071_00273_33894_4052.N1	23-AUG-2008 23:32:25	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	33894	No
42	GOM_TRA_1PNPDE20080823_233352_000000422071_00273_33894_4053.N1	23-AUG-2008 23:33:52	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	33894	No
43	GOM_TRA_1PNPDE20080823_233513_000000422071_00273_33894_4054.N1	23-AUG-2008 23:35:13	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	33894	No
44	GOM_TRA_1PNPDE20080823_234042_000000452071_00273_33894_4055.N1	23-AUG-2008 23:40:42	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	33894	No
45	GOM_TRA_1PNPDE20080823_235152_000000452071_00274_33895_4056.N1	23-AUG-2008 23:51:52	Dark	45.000	9	Alp Eri	0.45300	24000.	90	33895	No
46	GOM_TRA_1PNPDE20080823_235655_000000392071_00274_33895_4057.N1	23-AUG-2008 23:56:55	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33895	No

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



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

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

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

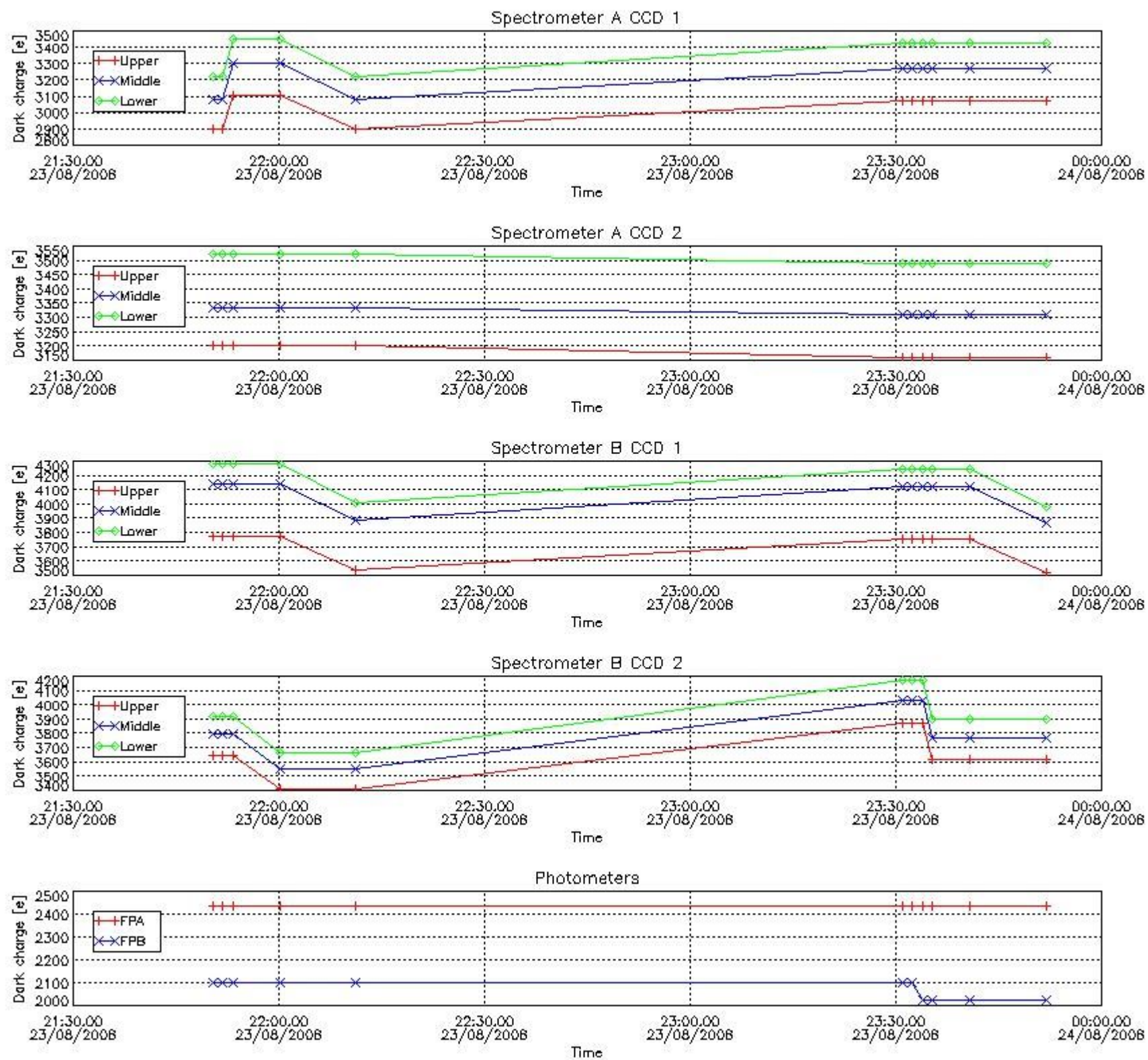
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20080823_203543_000000472071_00272_33893_3722.N1	DC map with no T dep.
GOM_TRA_1PNPDE20080823_203920_000000452071_00272_33893_3723.N1	DC map used
GOM_TRA_1PNPDE20080823_204321_000000492071_00272_33893_3724.N1	DC map used
GOM_TRA_1PNPDE20080823_204831_000000522071_00272_33893_3725.N1	DC map used
GOM_TRA_1PNPDE20080823_205147_000000402071_00272_33893_3726.N1	DC map used
GOM_TRA_1PNPDE20080823_205329_000000442071_00272_33893_3727.N1	DC map used
GOM_TRA_1PNPDE20080823_205633_000000422071_00272_33893_3728.N1	DC map used
GOM_TRA_1PNPDE20080823_210314_000000382071_00272_33893_3729.N1	DC map used
GOM_TRA_1PNPDE20080823_210459_000000362071_00272_33893_3730.N1	DC map used
GOM_TRA_1PNPDE20080823_210626_000000352071_00272_33893_3731.N1	DC map used
GOM_TRA_1PNPDE20080823_211137_000000392071_00272_33893_3732.N1	DC map used
GOM_TRA_1PNPDE20080823_211903_000000372071_00272_33893_3733.N1	DC map used
GOM_TRA_1PNPDE20080823_213204_000000422071_00272_33893_3734.N1	DC map used
GOM_TRA_1PNPDE20080823_213543_000000352071_00272_33893_3735.N1	DC map used



GOM_TRA_1PNPDE20080823_213920_000000502071_00272_33893_3736.N1	DC map used
GOM_TRA_1PNPDE20080823_214059_000000472071_00272_33893_3737.N1	DC map used
GOM_TRA_1PNPDE20080823_214230_000000382071_00272_33893_3738.N1	DC map used

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



5. Demodulation flag and quality information monitoring

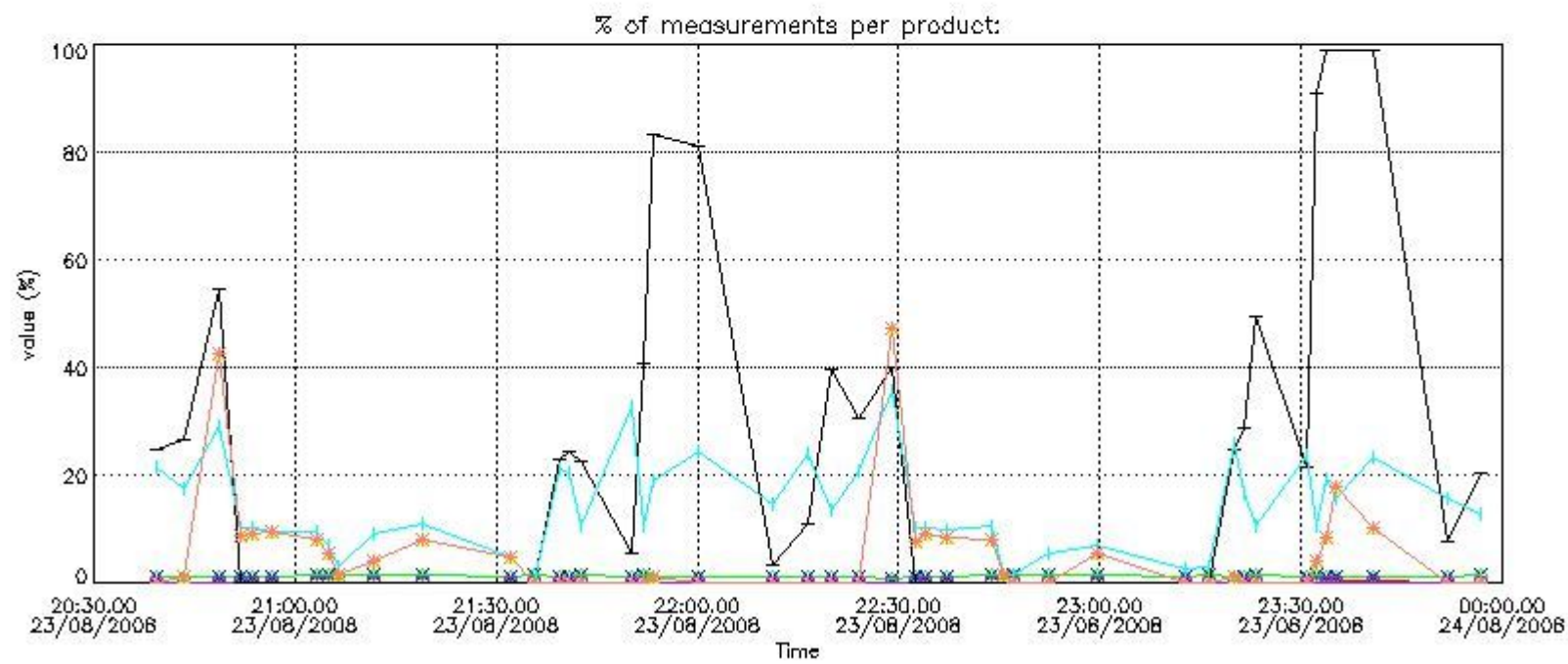
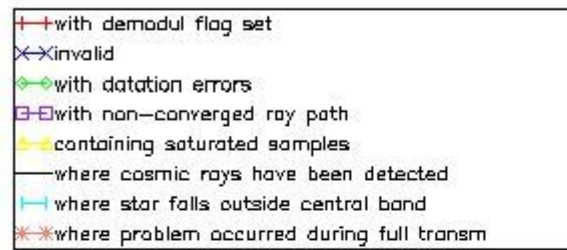
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

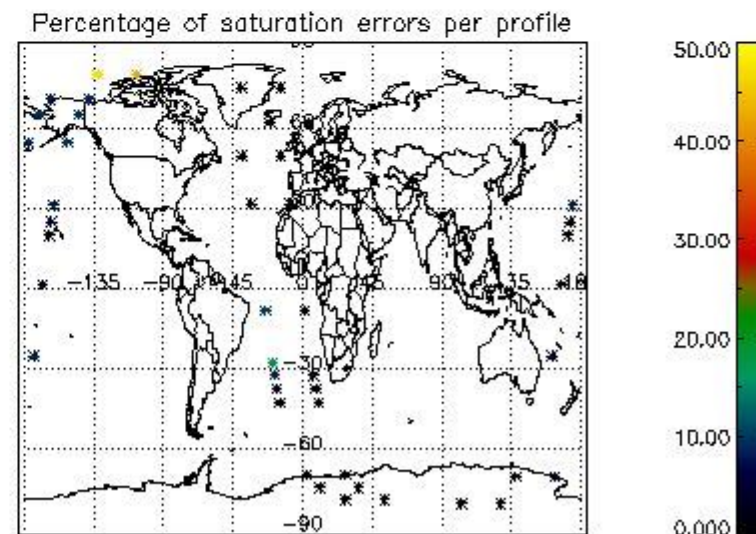
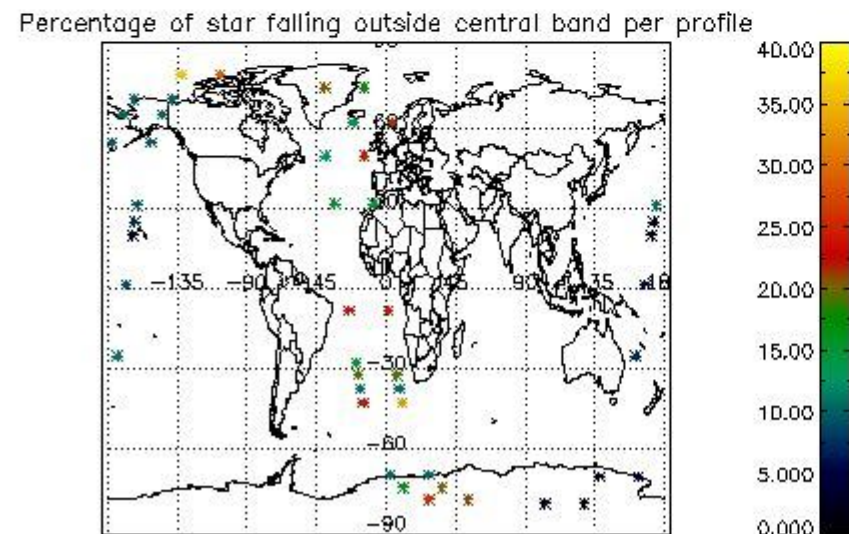
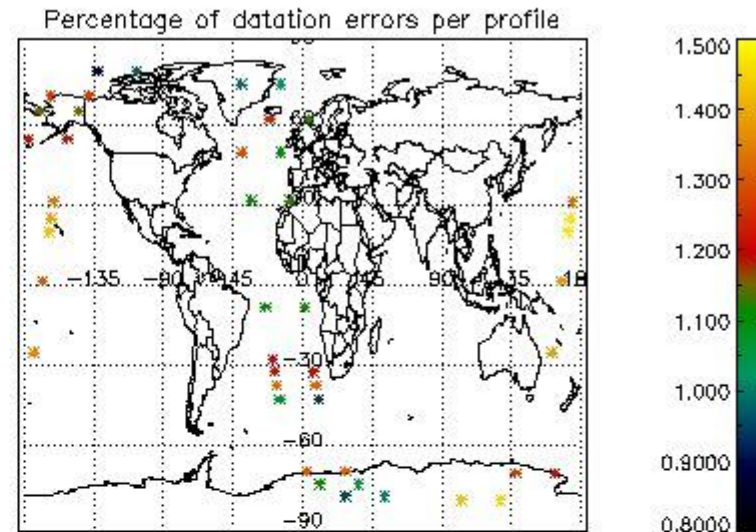
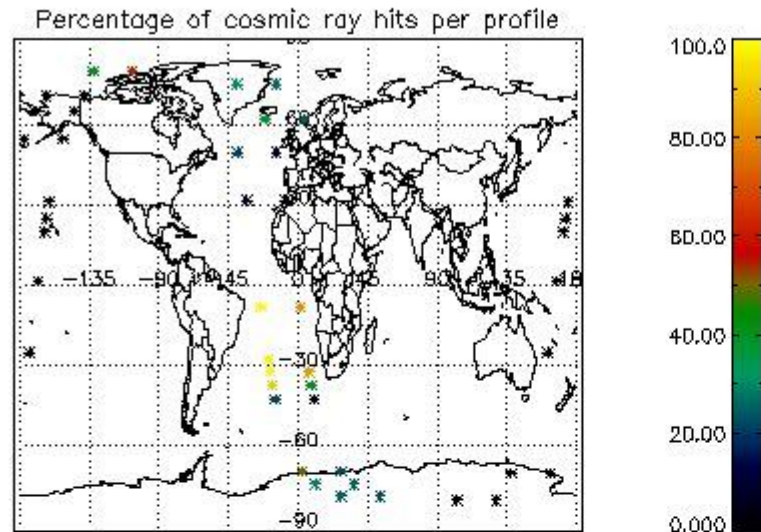
At least one measurement with demodulation flag set:	24.4444 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





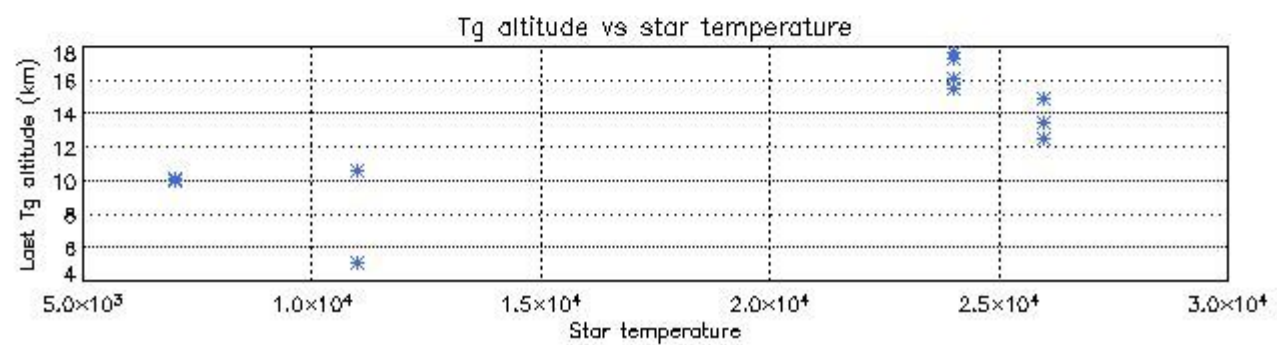
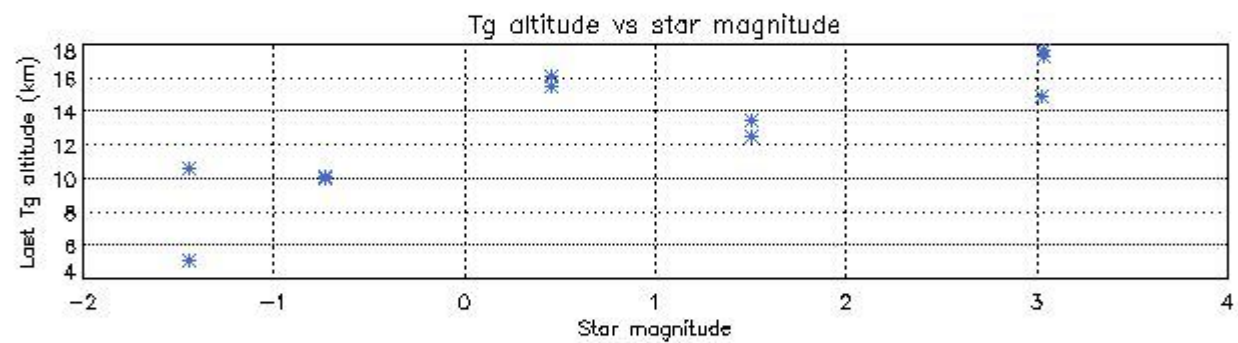
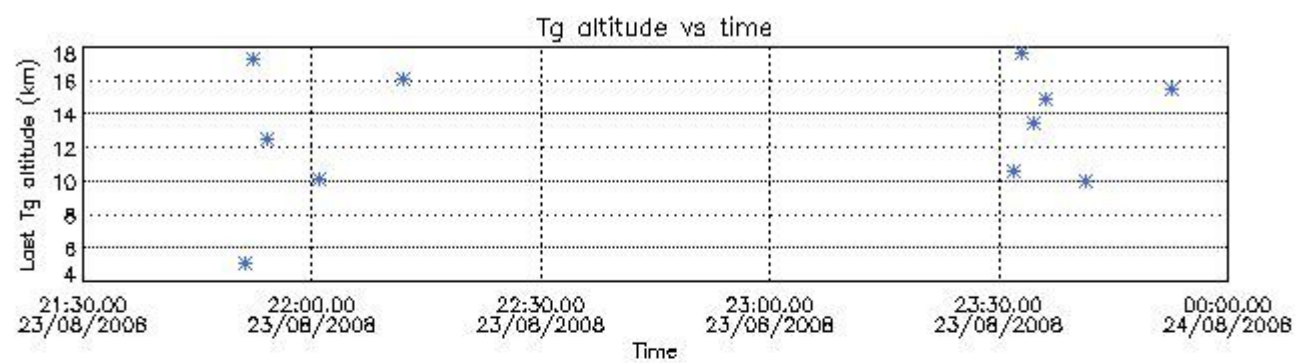
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.994	19.029	16.412
St. deviation:	3.8132	5.1918	0.34847
Maximum:	17.641	25.242	16.658
Minimum:	5.0834	3.8666	16.165
Number of data:	11.000	22.000	2.0000

### 6.2 Plot for DARK limb products

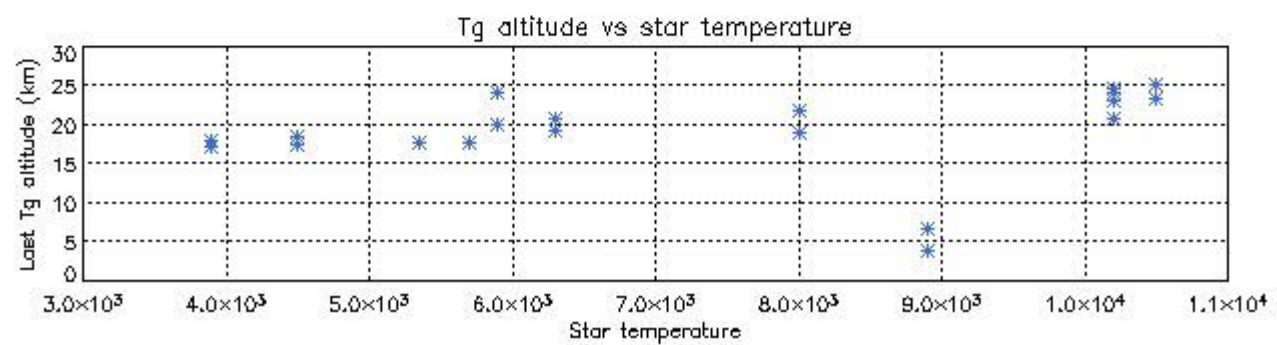
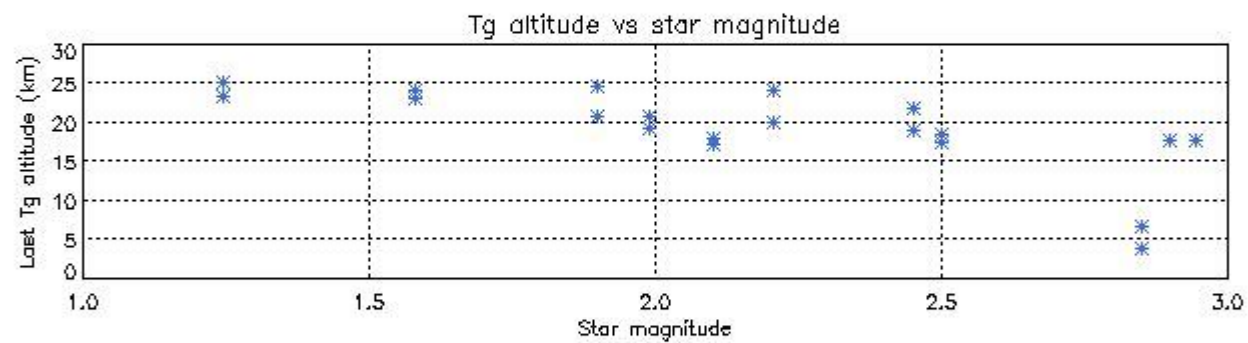
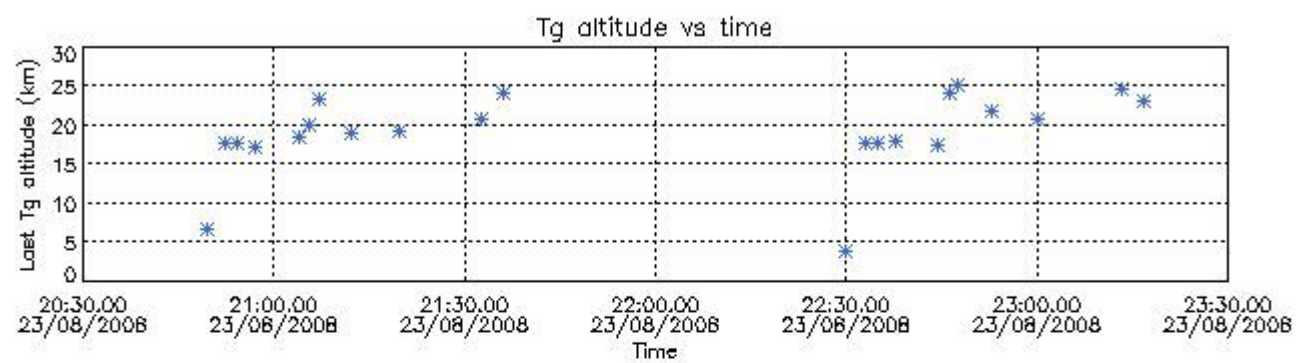
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

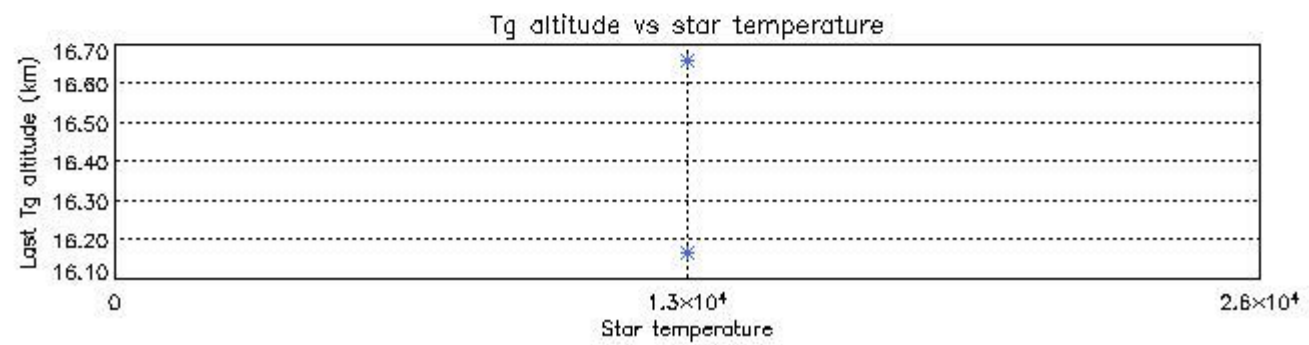
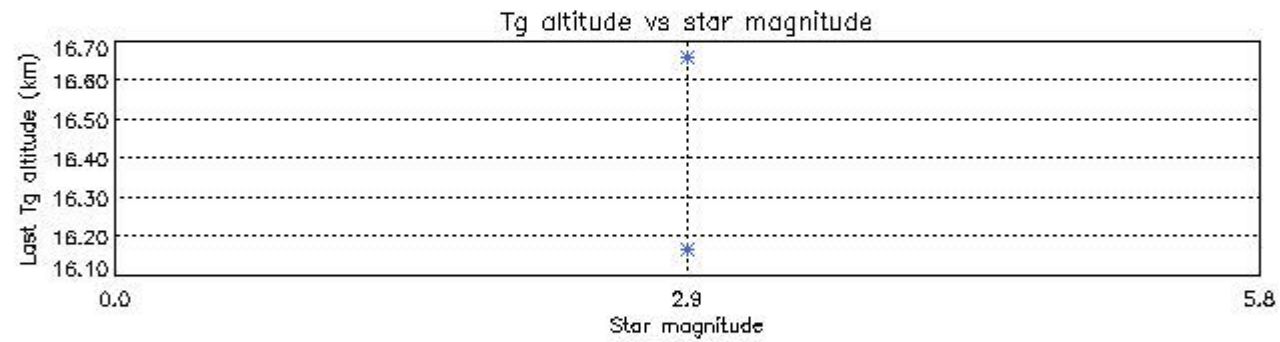
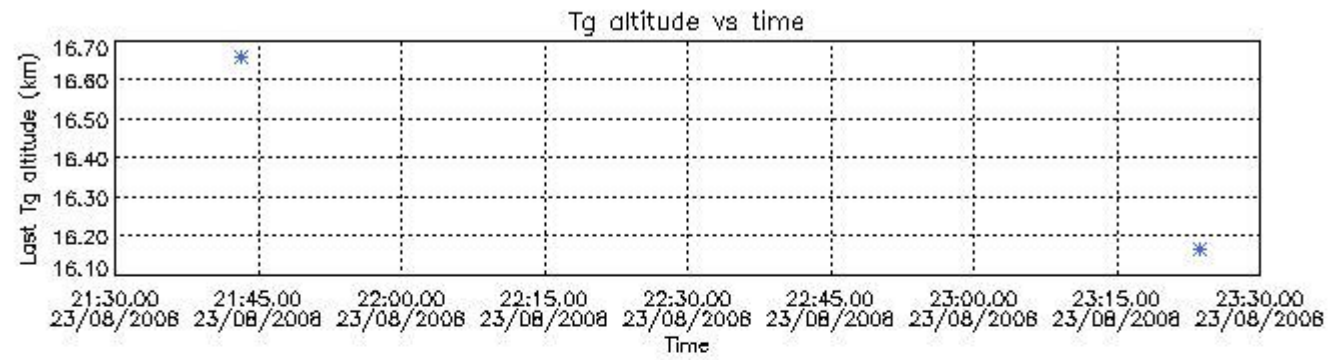


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

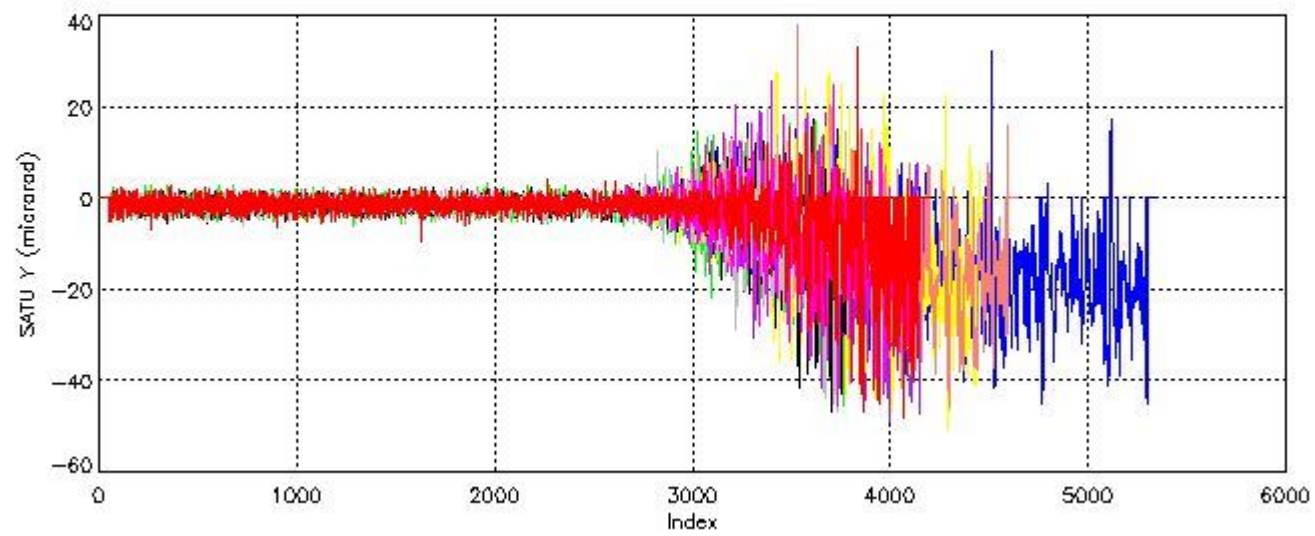
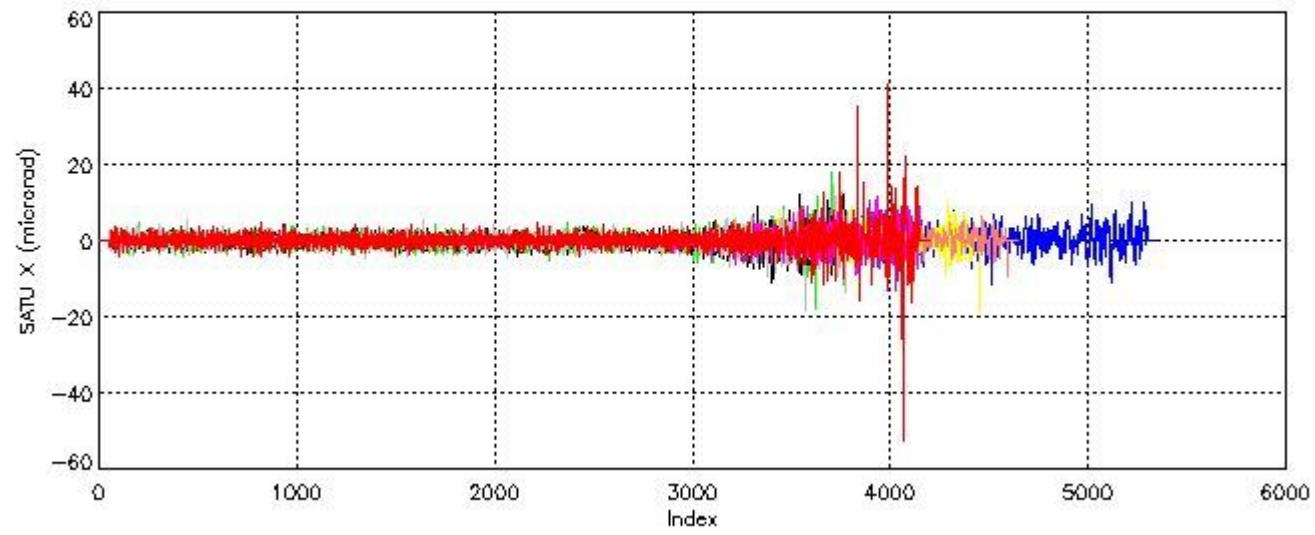


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.019689	-1.3419	0.16640	-1.3237
St. deviation:	0.52317	0.71226	0.62803	0.71470
Maximum:	5.4000	2.9000	3.2000	1.8000
Minimum:	-4.4000	-7.0000	-3.3000	-5.2000



Number of data:	9800.0	9800.0	18800.	18800.
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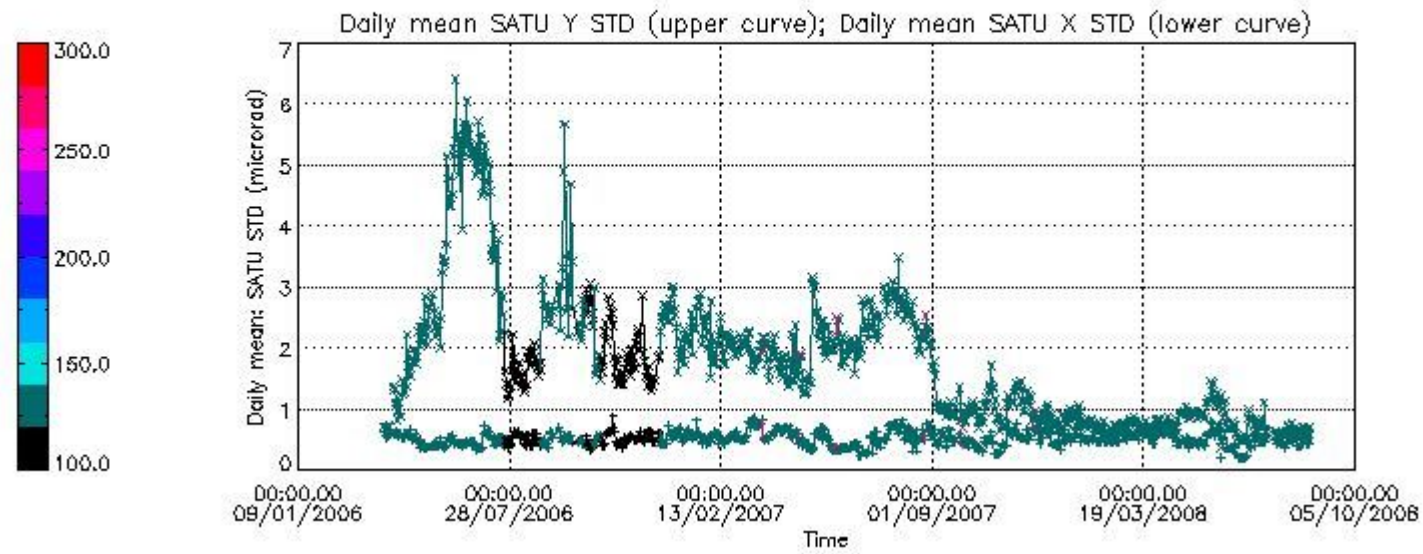
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

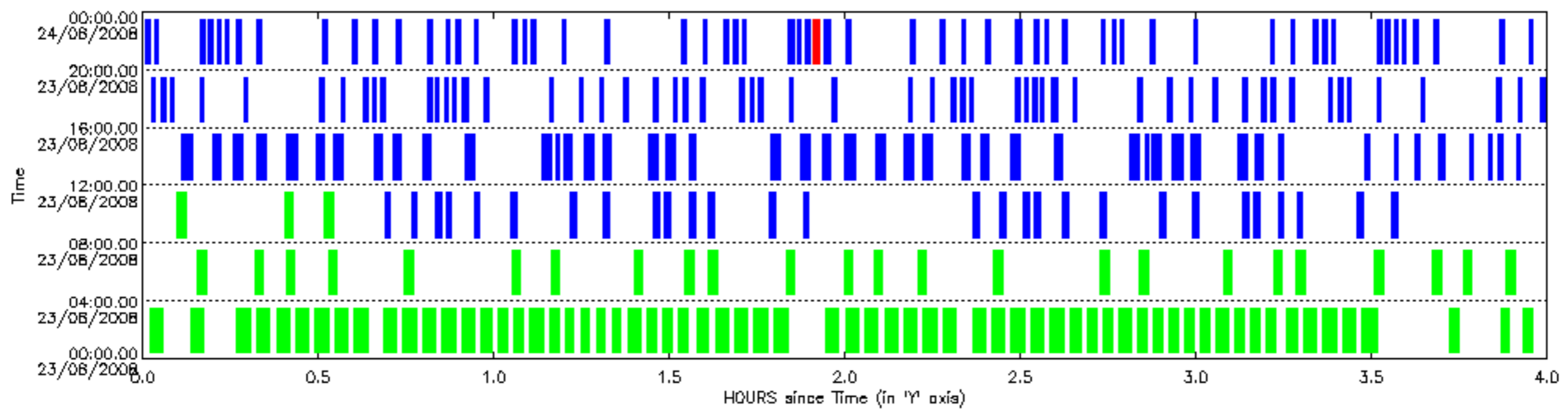
Lower curve: STD of SATU X axis

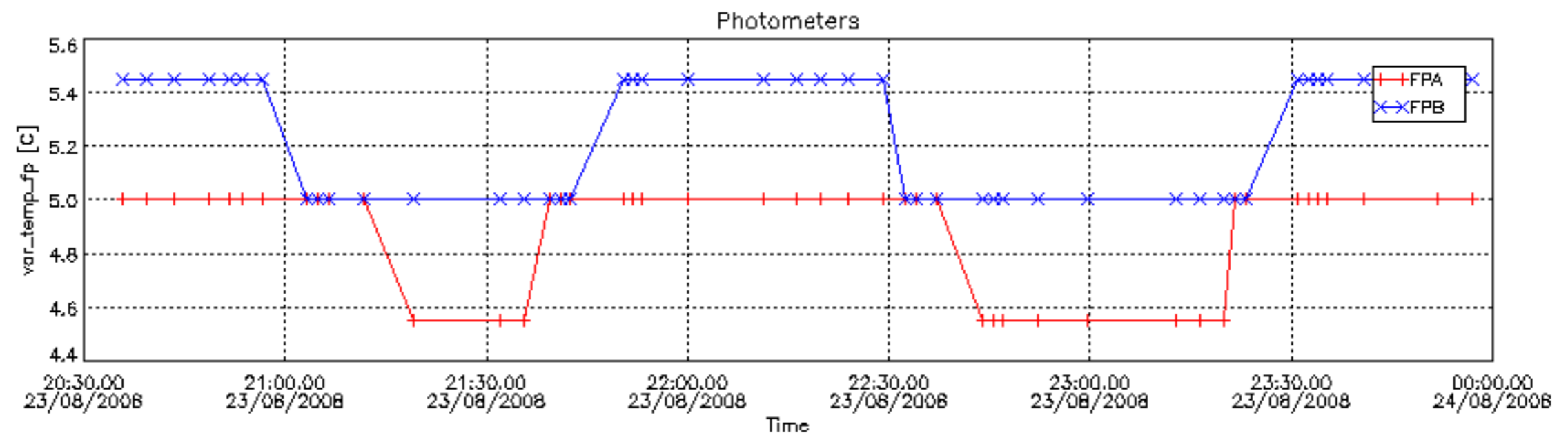
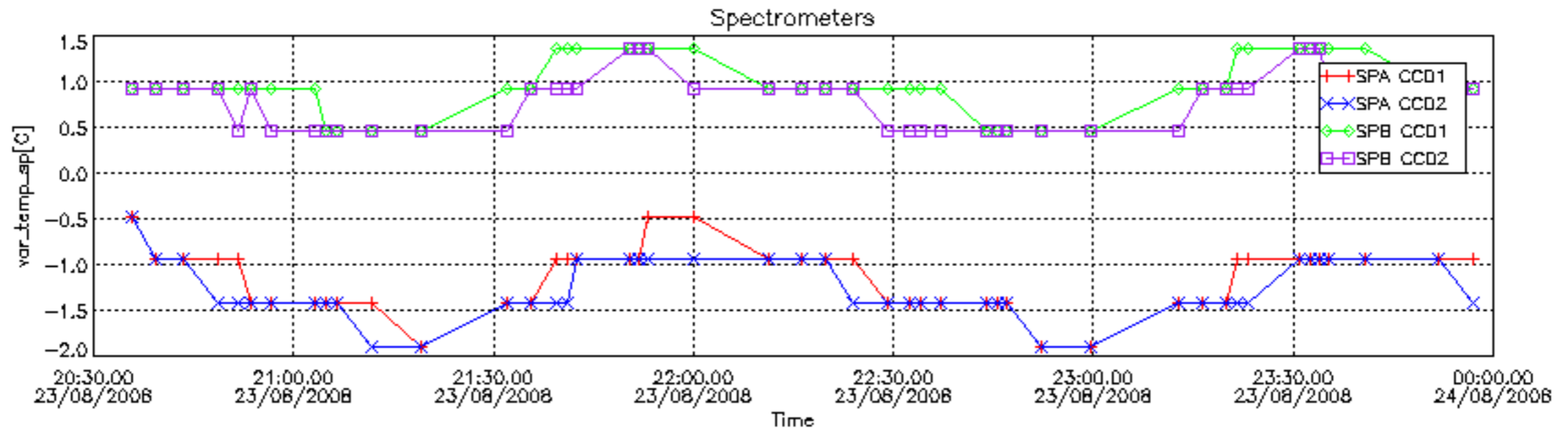


### 8. Auxiliary Data Files used for the production reported in section 2.4

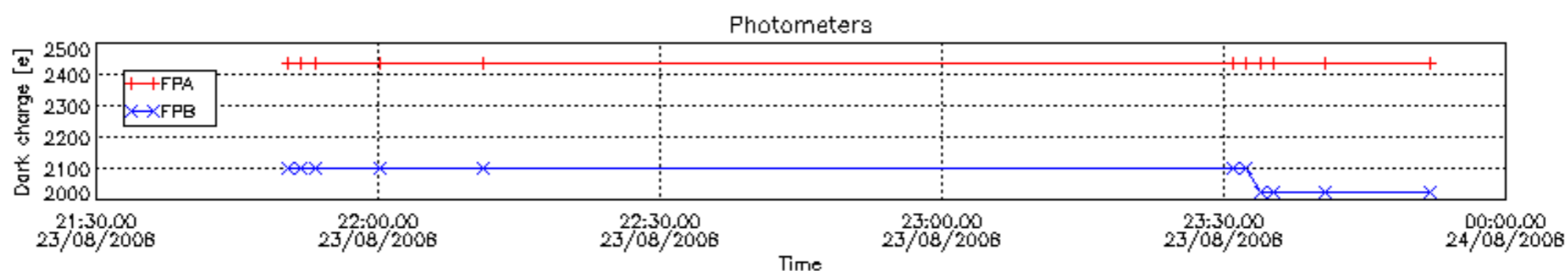
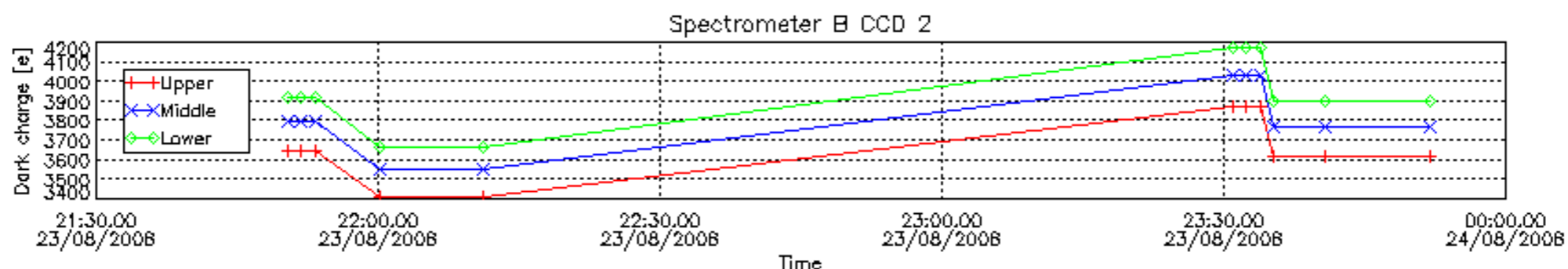
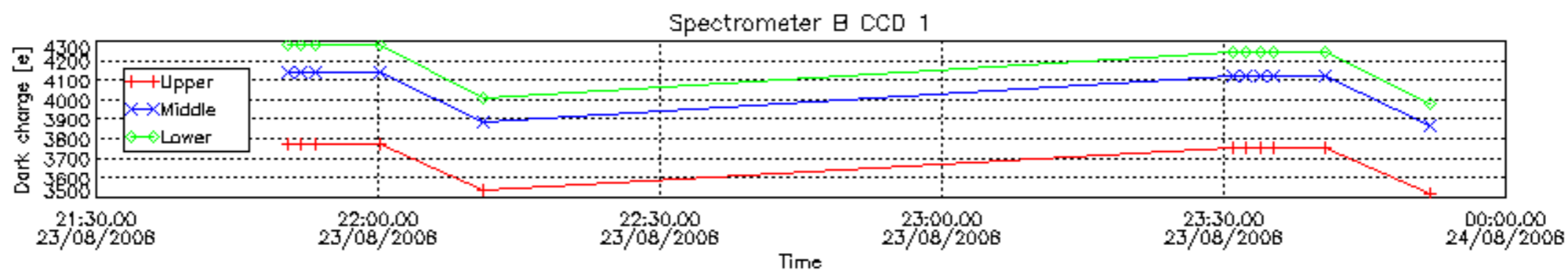
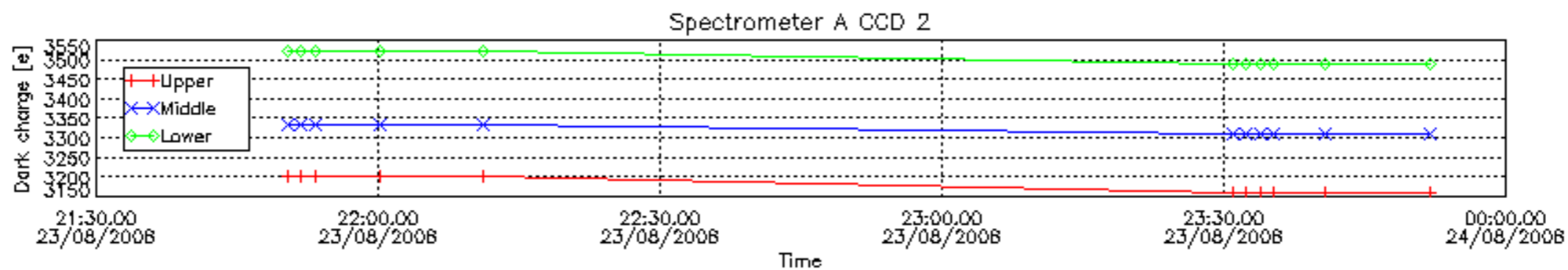
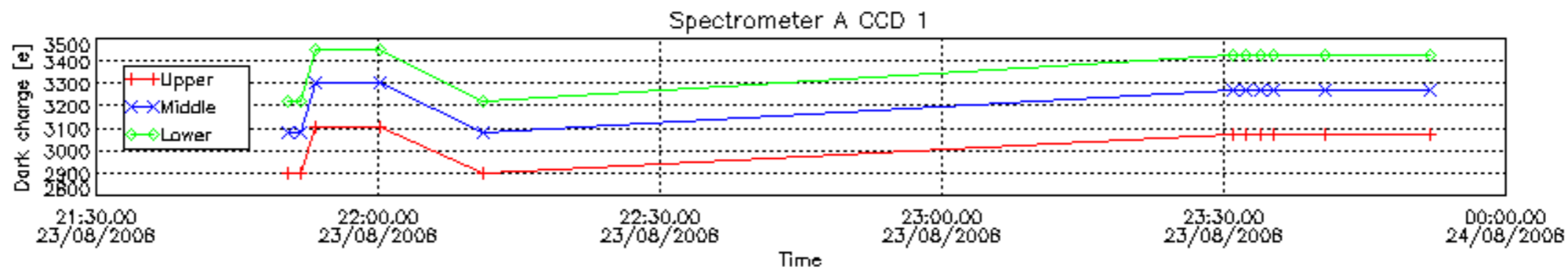
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

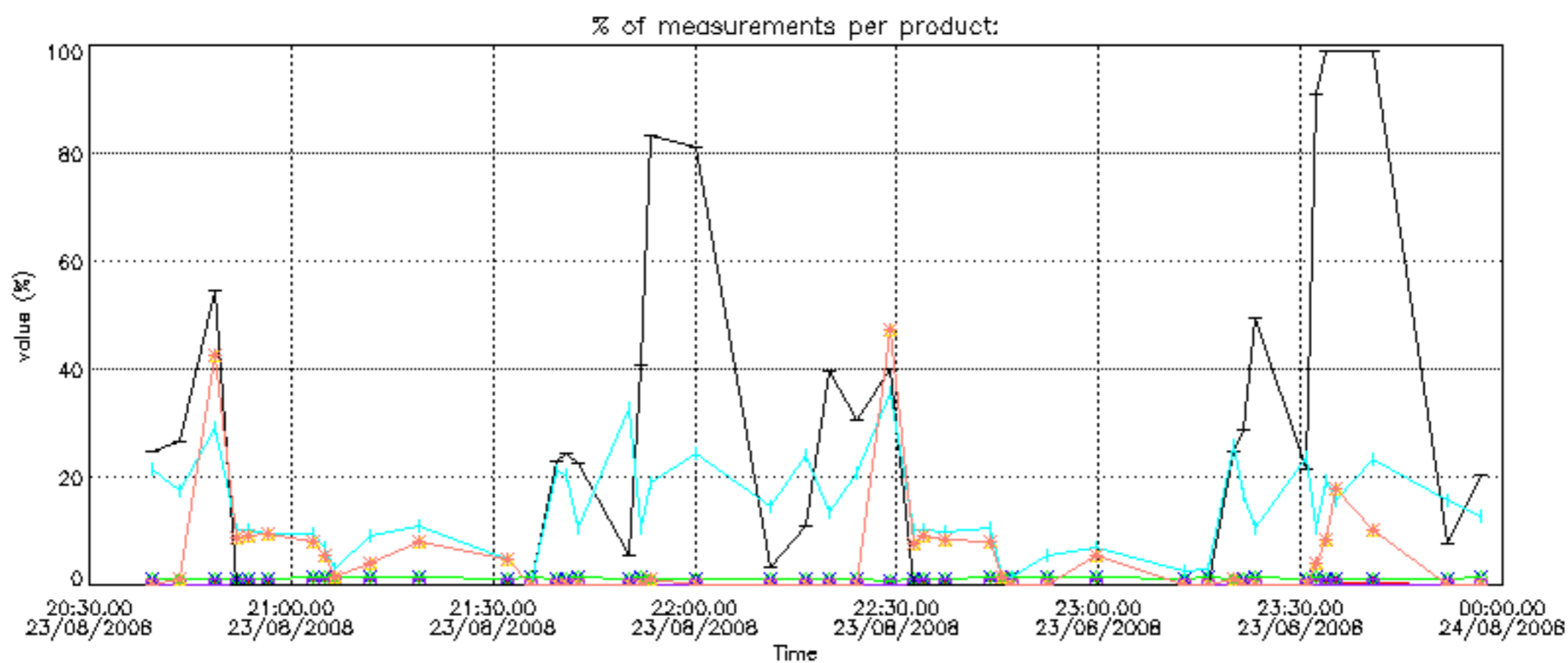
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-AUG-2008 20:35:43
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080818_072609_20080816_000000_20100101_000000	1	23-AUG-2008 20:35:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-AUG-2008 20:35:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-AUG-2008 20:35:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-AUG-2008 20:35:43
ECMWF_FILE	AUX_ECF_AXNECM20080823_072111_20080823_150000_20080824_030000	1	23-AUG-2008 20:35:43
ECMWF_FILE	AUX_ECF_AXNECM20080823_072111_20080823_210000_20080824_090000	18	23-AUG-2008 21:50:20
OPTIONAL_ECMWF_FILE	MISSING	1	23-AUG-2008 20:35:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080823_203240_000041442071_00272_33893_6213.N1	1	23-AUG-2008 20:35:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080823_214703_000057382071_00272_33893_6214.N1	40	23-AUG-2008 23:30:57



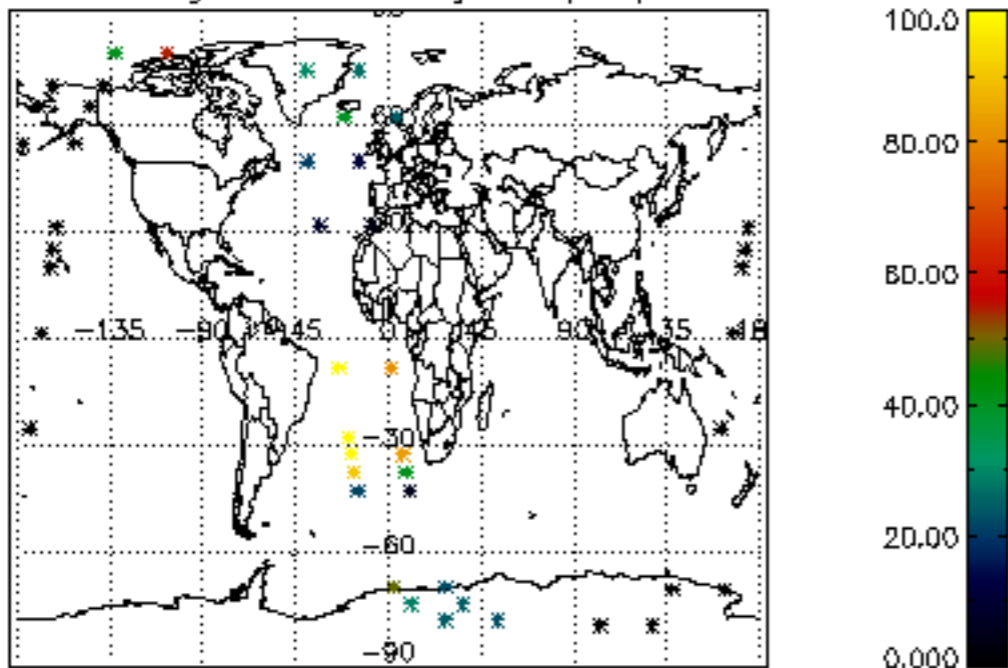




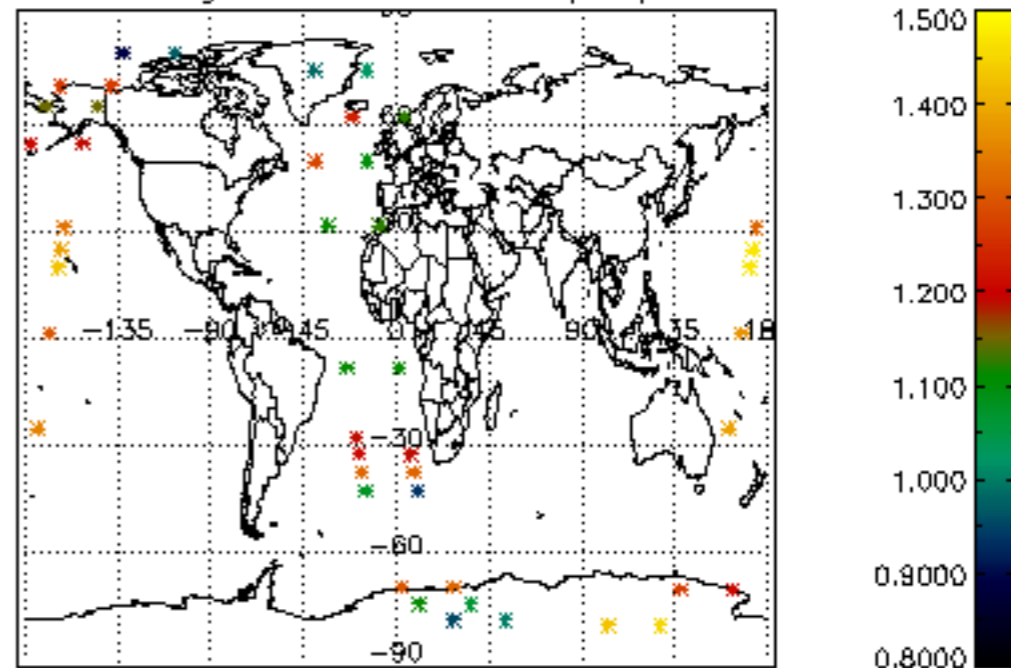




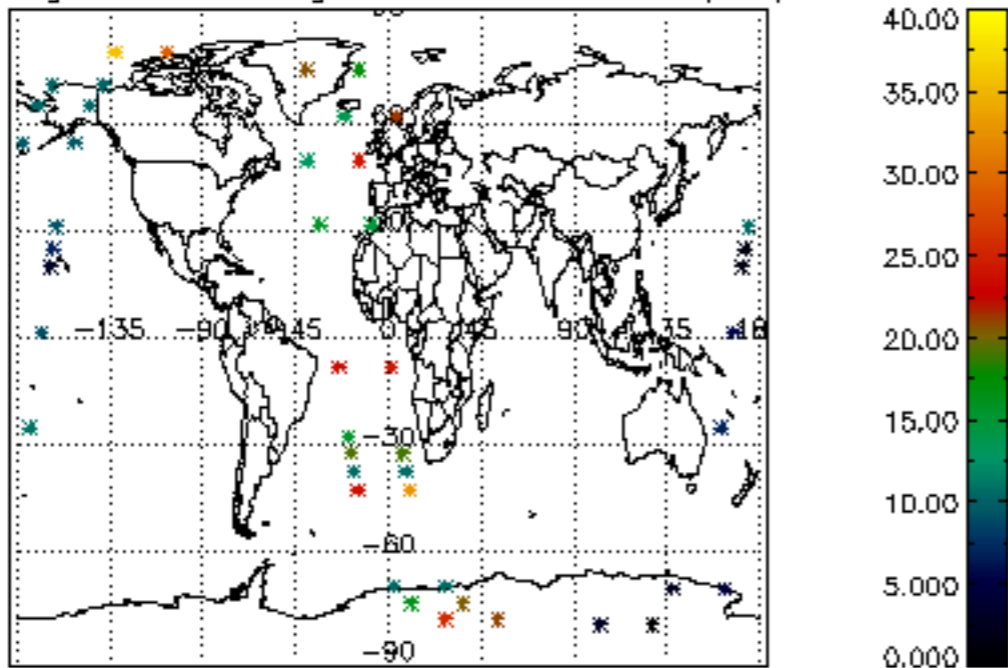
Percentage of cosmic ray hits per profile



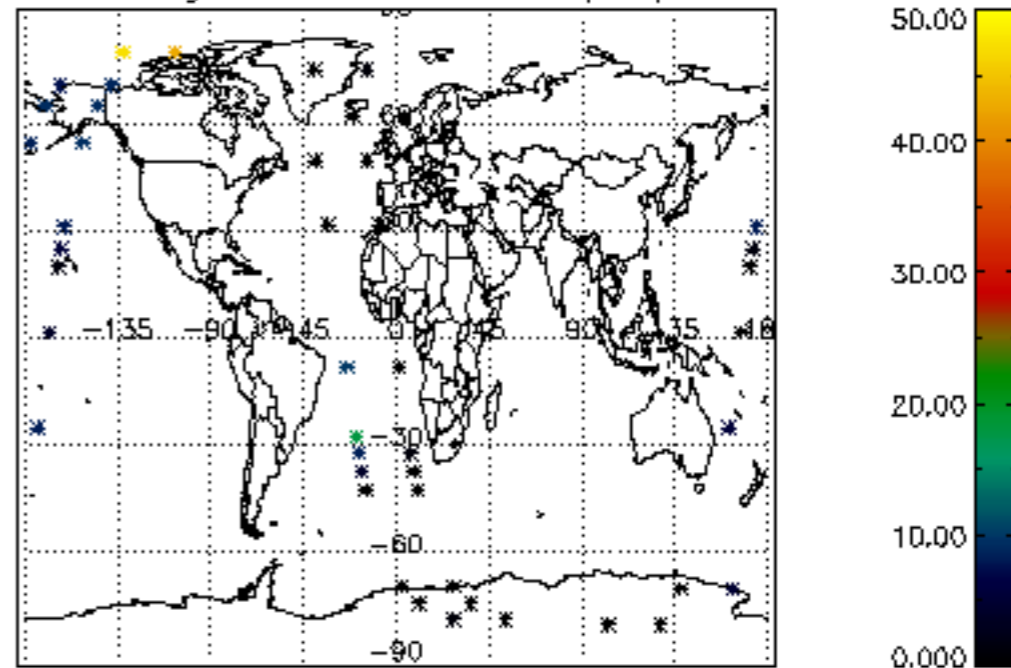
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

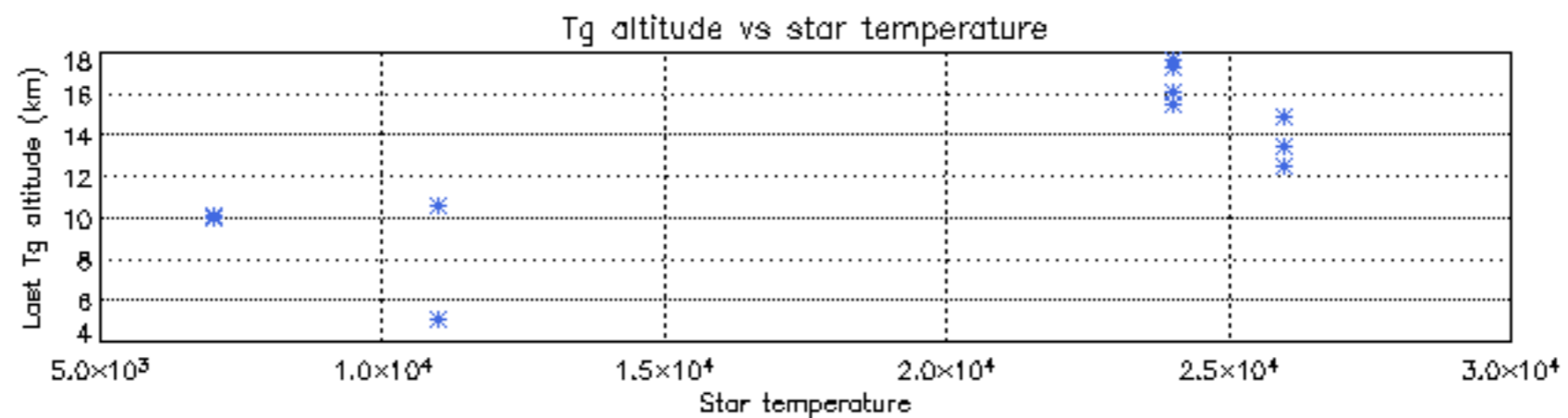
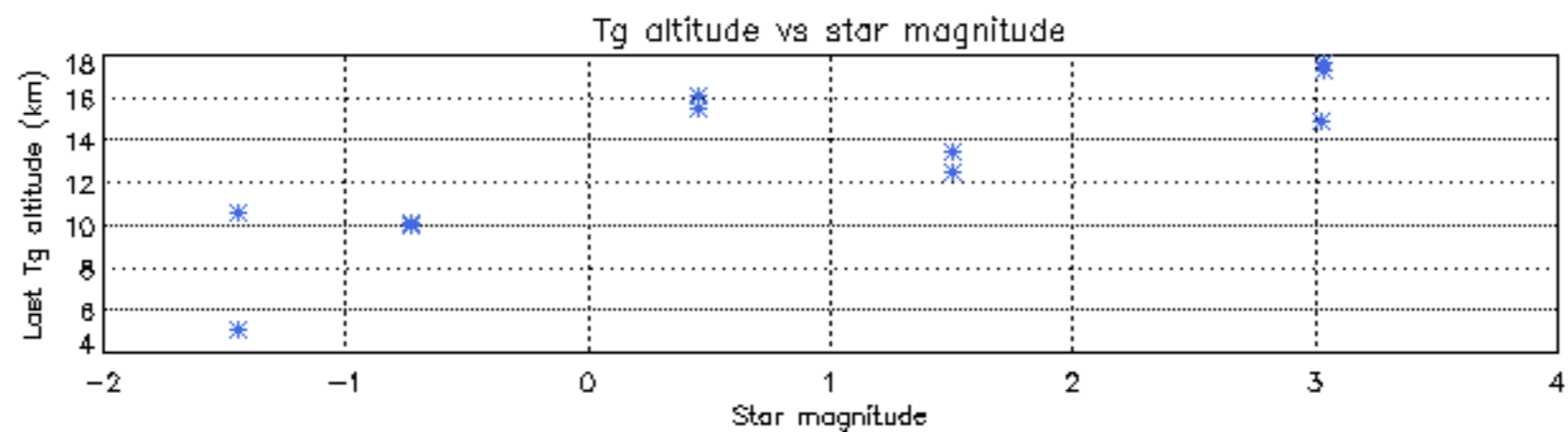
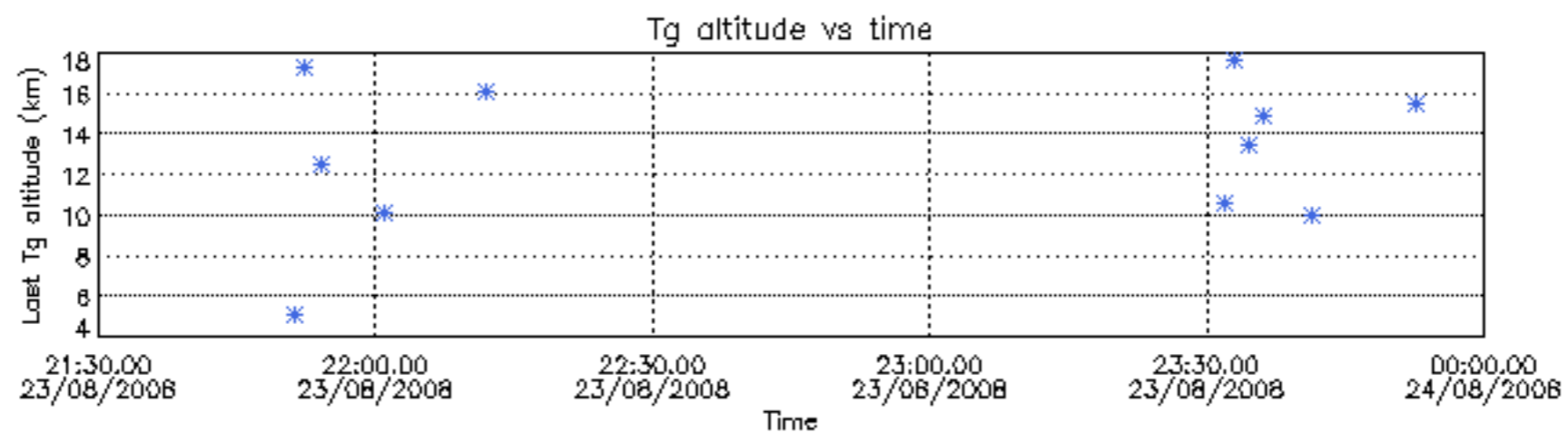


Percentage of saturation errors per profile

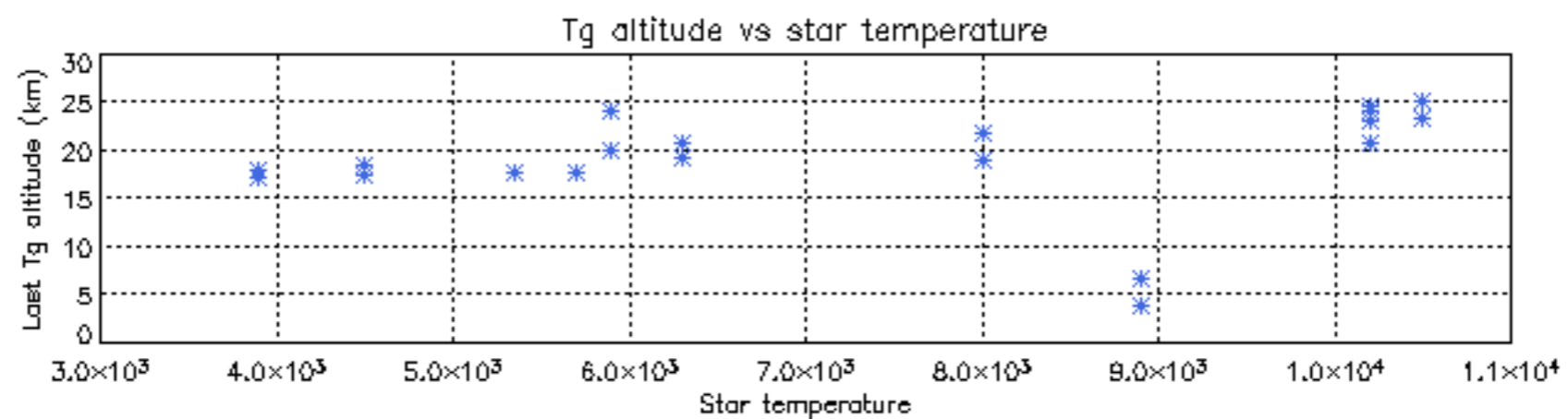
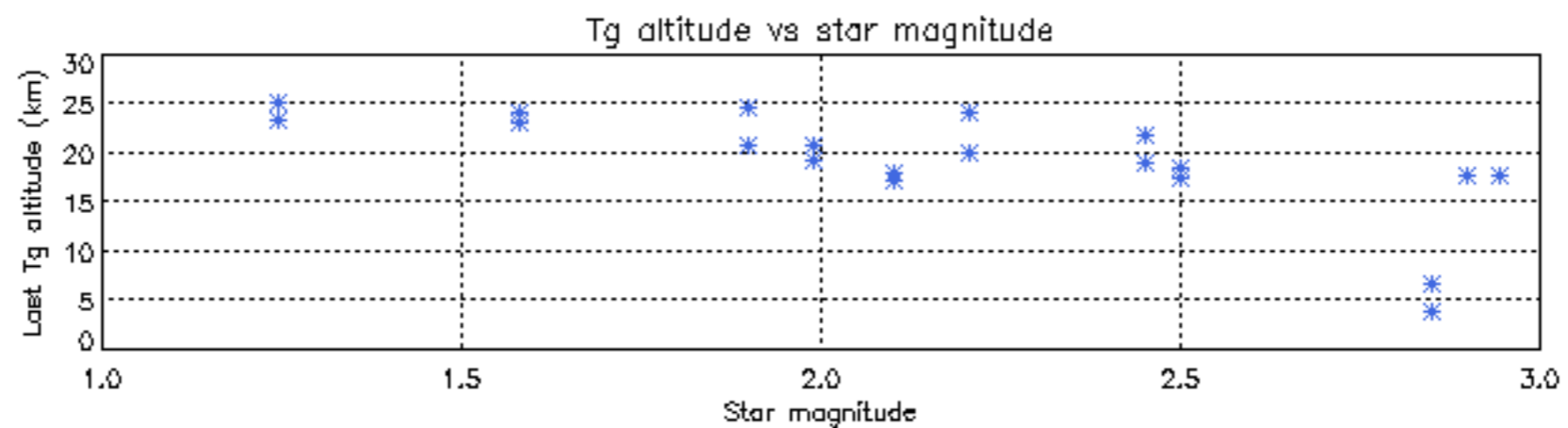
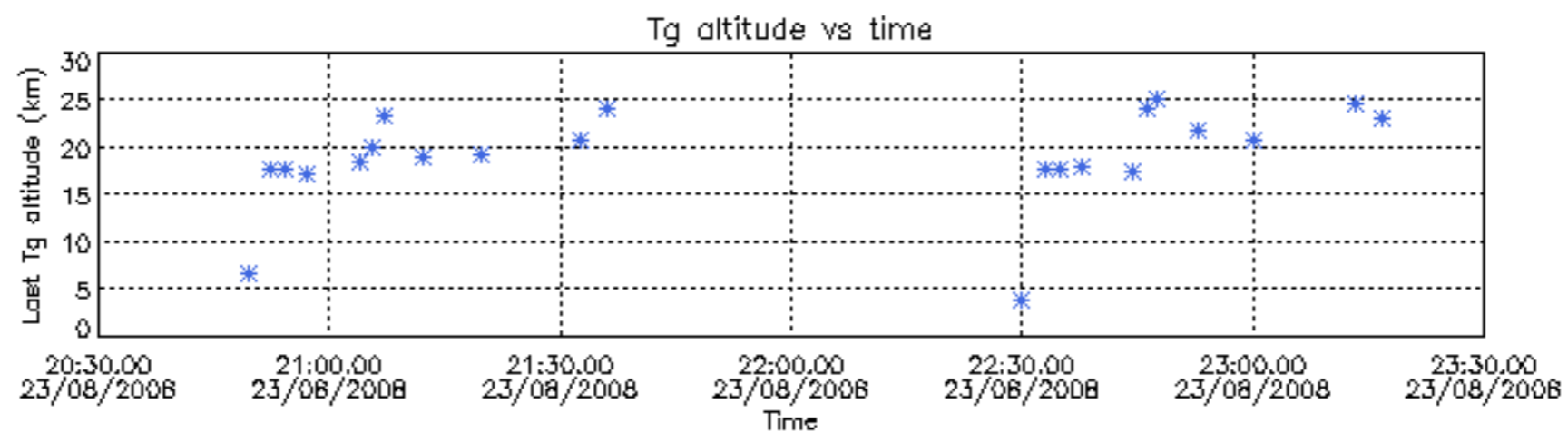




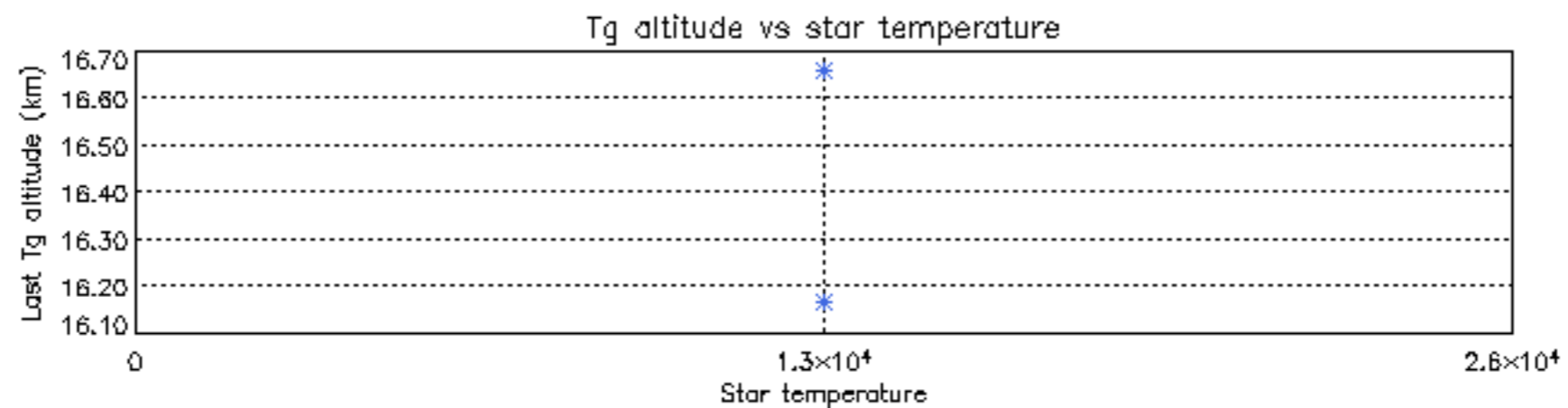
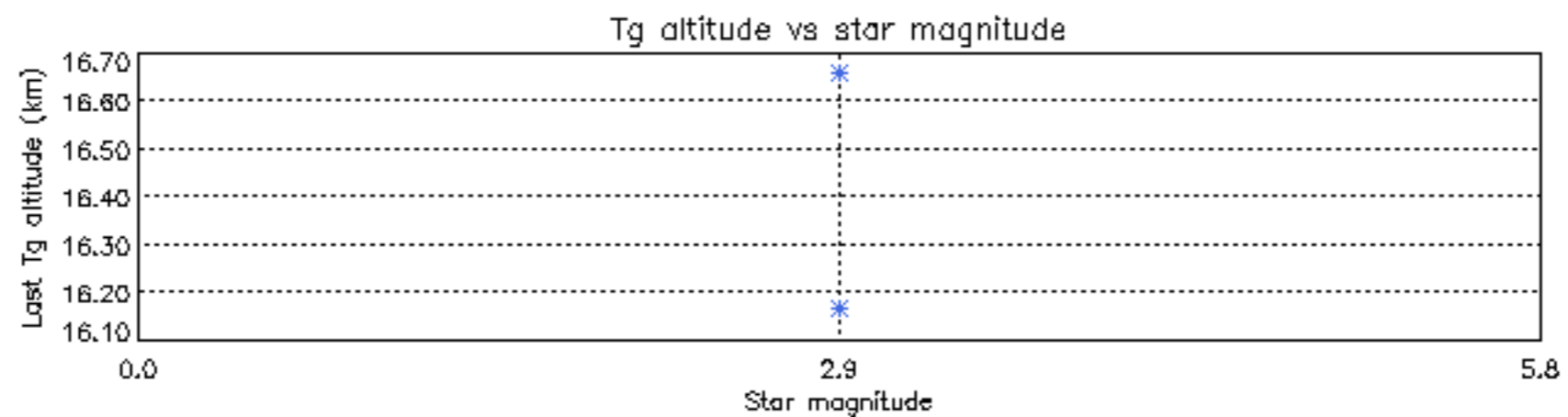
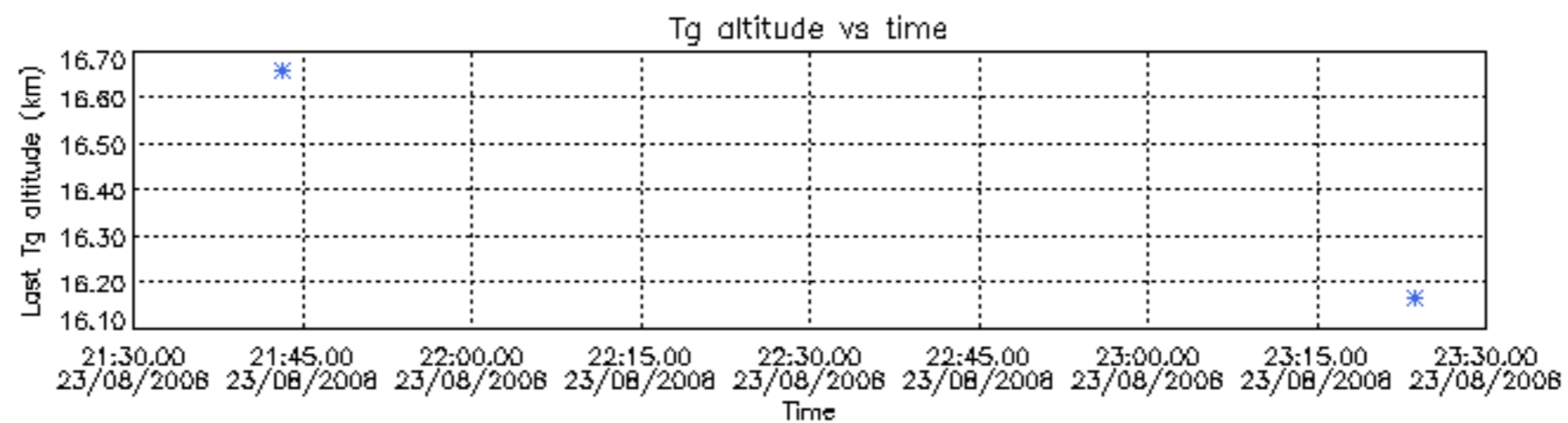
Tangent altitude at which the star is lost

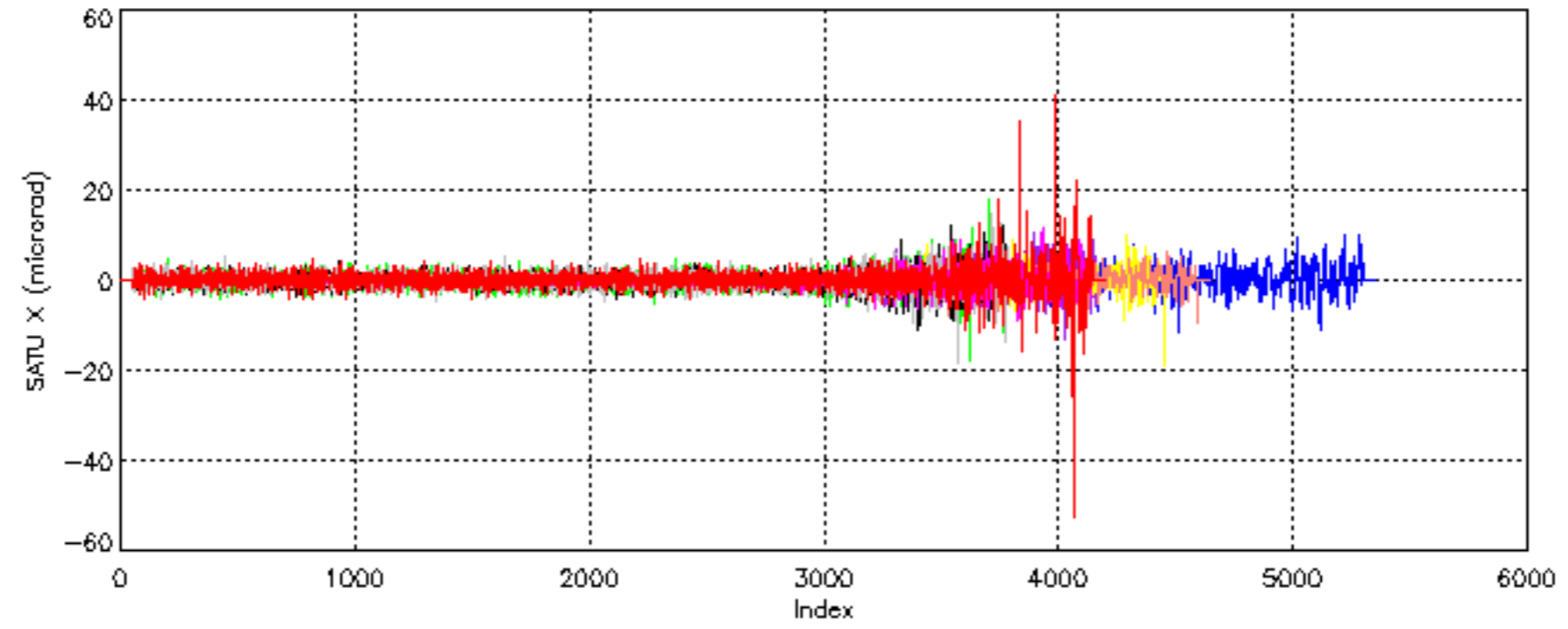


Tangent altitude at which the star is lost

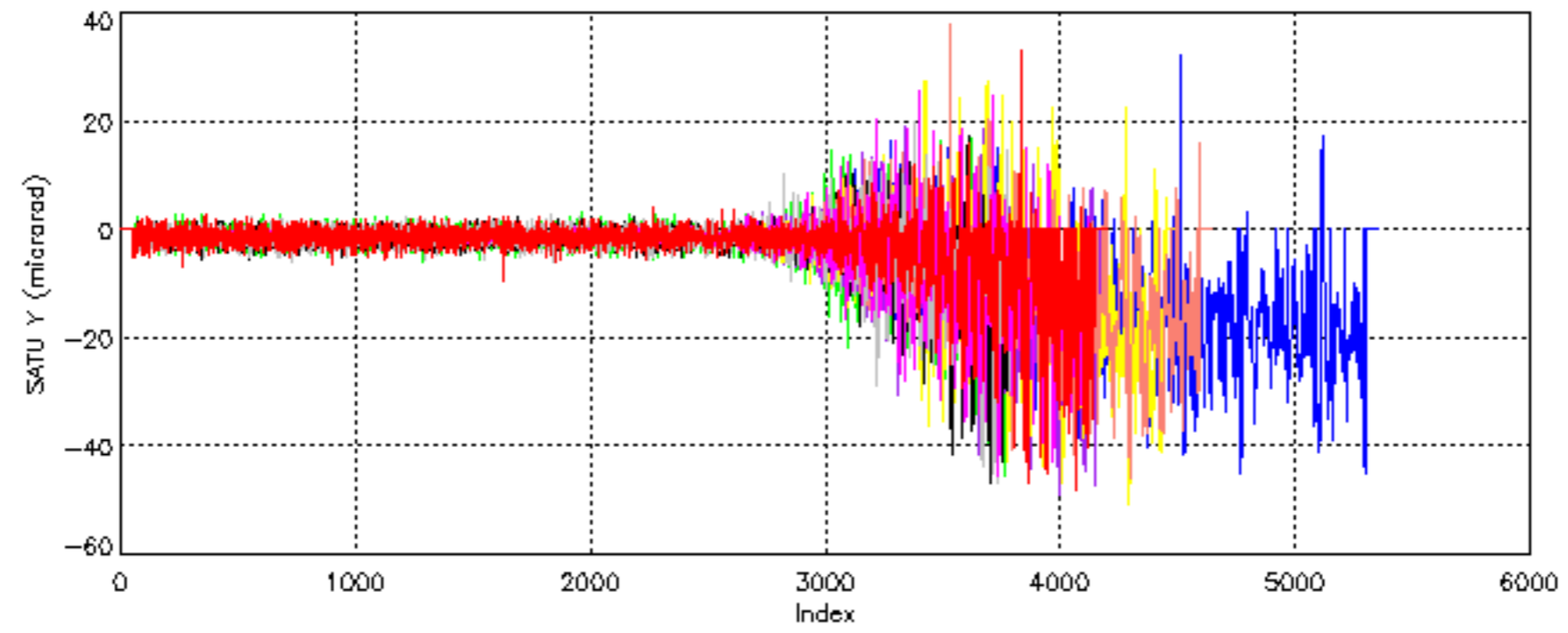


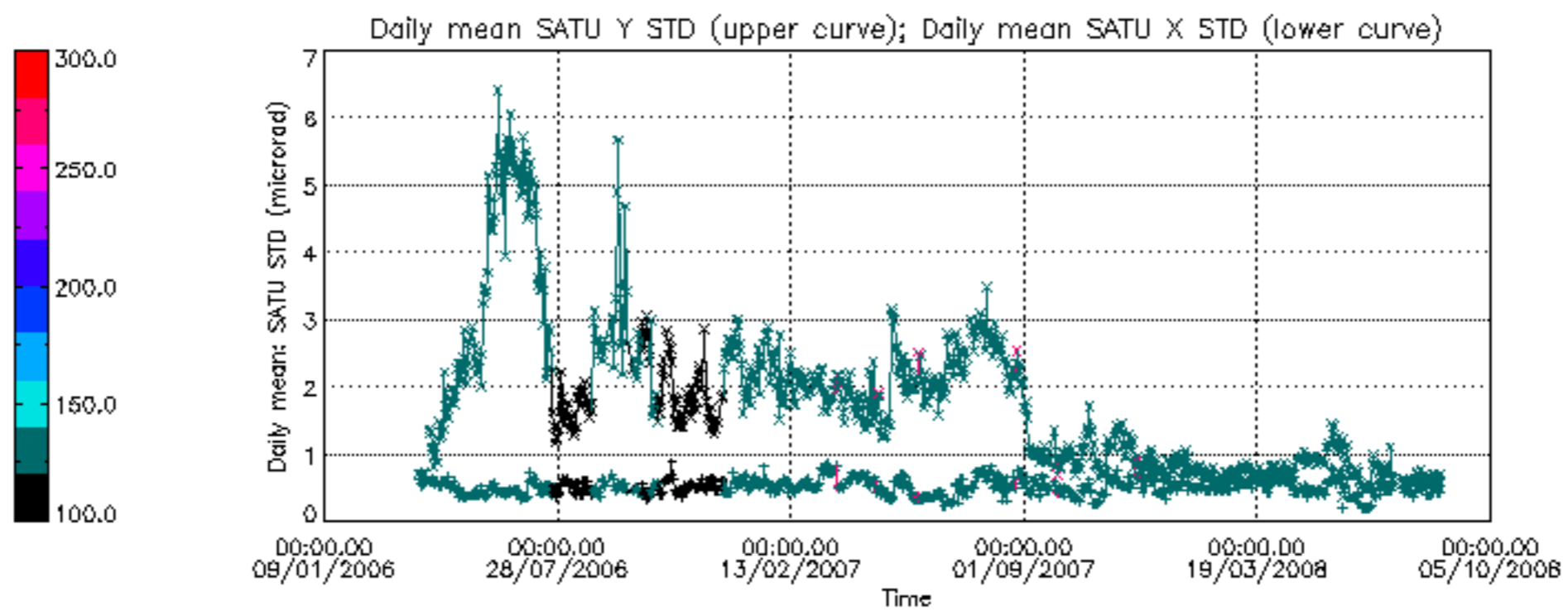
Tangent altitude at which the star is lost











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3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566  
4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566  
5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567  
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7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567  
8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567  
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10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567  
11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567  
12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567  
13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567  
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3; -1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567  
4; -1395.5; 01-AUG-2008 03:03:56; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33567  
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6; -1009.5; 01-AUG-2008 03:10:22; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33567  
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8; -730.2; 01-AUG-2008 03:15:01; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33567  
9; -298.6; 01-AUG-2008 03:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33567  
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12; 721.0; 01-AUG-2008 03:39:12; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33568  
13; 922.4; 01-AUG-2008 03:42:34; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33568  
14; 1110.6; 01-AUG-2008 03:45:42; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33568  
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17; 2570.4; 01-AUG-2008 04:10:02; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;33568  
18; 2693.9; 01-AUG-2008 04:12:05; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33568  
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12; 721.2; 01-AUG-2008 05:19:49; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33569  
13; 922.9; 01-AUG-2008 05:23:10; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33569  
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15; 2059.1; 01-AUG-2008 05:42:07; Bright; 37.5; 11; 53Alp Aql ; 0.76; 8000;occ; 75; 0;33569  
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17; 2570.5; 01-AUG-2008 05:50:38; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;33569  
18; 2693.8; 01-AUG-2008 05:52:41; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33569  
19; 3088.5; 01-AUG-2008 05:59:16; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33569  
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5; 2691.9; 01-AUG-2008 20:58:03; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;33578  
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7; 3440.8; 01-AUG-2008 21:10:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33578  
8; 4201.1; 01-AUG-2008 21:23:12; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33578  
9; 4348.4; 01-AUG-2008 21:25:39; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33578  
10; 4517.4; 01-AUG-2008 21:28:28; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33578

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12; 4863.6; 01-AUG-2008 21:34:14; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33578
13; 5030.4; 01-AUG-2008 21:37:01; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33578
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 5;-1174.7; 01-AUG-2008 06:28:49; Dark ; 42.0; 14; 58Alp Ori ; 0.87; 3000;occ; 84; 0;33569
 6;-1008.8; 01-AUG-2008 06:31:35; Dark ; 37.0; 30; 46Eps Ori ; 1.69; 30000;occ; 74; 0;33569
 7; -859.8; 01-AUG-2008 06:34:04; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33569
 8; -729.3; 01-AUG-2008 06:36:14; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;33569
 9; -297.2; 01-AUG-2008 06:43:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33569
10; -16.7; 01-AUG-2008 06:48:07; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33569
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13; 923.5; 01-AUG-2008 07:03:47; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33570
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 3; 2570.5; 01-AUG-2008 07:31:14; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;33570
 4; 2693.6; 01-AUG-2008 07:33:17; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33570
 5; 3087.9; 01-AUG-2008 07:39:51; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33570
 6; 3441.1; 01-AUG-2008 07:45:44; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33570
 7; 4201.2; 01-AUG-2008 07:58:25; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33570
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19; 7038.8; 13-AUG-2008 14:10:29; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;33745  
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13; 5363.6; 14-AUG-2008 19:53:20; Dark ; 36.5; 179; 240mi2CMA ; 3.03; 24000;occ; 73; 0;33763
14; 5450.8; 14-AUG-2008 19:54:47; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;33763
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 4; -174.6; 15-AUG-2008 01:03:25; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;33766

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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  
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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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6; -423.9; 15-AUG-2008 04:20:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33768  
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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  
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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  
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4; -671.1; 15-AUG-2008 05:56:57; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33769  
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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  
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3; 2065.1; 15-AUG-2008 20:07:20; Bright; 35.5; 11; 53Alp Aql ; 0.76; 8000;occ; 71; 0;33778

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5; 2598.2; 15-AUG-2008 20:16:14; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33778
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
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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
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2; 2503.9; 15-AUG-2008 11:51:40; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33773
3; 2598.7; 15-AUG-2008 11:53:14; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33773
4; 2674.9; 15-AUG-2008 11:54:31; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69; 0;33773
5; 3017.8; 15-AUG-2008 12:00:13; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33773
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7; 4720.4; 15-AUG-2008 12:28:36; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33773
8; 5267.9; 15-AUG-2008 12:37:44; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;33773
9; 5365.7; 15-AUG-2008 12:39:21; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;33773
10; 5453.1; 15-AUG-2008 12:40:49; Dark ; 39.0; 23; 21Eps CMa ; 1.50; 26000;occ; 78; 0;33773
11; 5613.9; 15-AUG-2008 12:43:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33773
12; 5863.0; 15-AUG-2008 12:47:39; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33773
13; 6489.2; 15-AUG-2008 12:58:05; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;33773
14; 6835.7; 15-AUG-2008 13:03:51; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33773
15; 7049.3; 15-AUG-2008 13:07:25; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33773
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9; 5268.3; 15-AUG-2008 14:18:20; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33774
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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
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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
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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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13; 6490.7; 15-AUG-2008 16:19:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33775
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 5; 2675.2; 15-AUG-2008 16:56:19; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33776  
 6; 3017.0; 15-AUG-2008 17:02:00; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 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  
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 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  
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 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  
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 10; 4721.3; 15-AUG-2008 19:11:01; Dark ; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 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  
 14; 5615.6; 15-AUG-2008 19:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33777  
 15; 5864.0; 15-AUG-2008 19:30:03; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;33777  
 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  
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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  
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 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  
 14; 3015.6; 16-AUG-2008 01:24:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33781  
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 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  
 20; 4933.4; 16-AUG-2008 01:56:56; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;33781  
 21; 5125.6; 16-AUG-2008 02:00:09; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 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  
 8; 803.3; 16-AUG-2008 02:28:42; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33782  
 9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33782  
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 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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 9; -618.1; 16-AUG-2008 03:45:37; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;33782
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13; 804.3; 16-AUG-2008 04:09:19; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;33783
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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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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 9; 4369.9; 18-AUG-2008 10:47:54; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33815  
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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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 5; 2594.7; 18-AUG-2008 11:58:55; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33816  
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 7; 2688.5; 18-AUG-2008 13:41:05; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;33817  
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 21; 4565.2; 19-AUG-2008 23:44:20; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33837  
 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
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13; 4372.9; 21-AUG-2008 20:57:17; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;33864
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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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 8; 2677.6; 27-AUG-2008 17:19:19; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33948  
 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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 8; 2595.0; 27-AUG-2008 18:58:33; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33949  
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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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 9; 1071.0; 28-AUG-2008 01:15:32; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;33953  
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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
 9; 4445.7; 28-AUG-2008 10:34:47; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;33958
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 5; 2486.1; 28-AUG-2008 11:42:43; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;33959
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