

# GOMOS Daily Report 07-SEP-2008

## Level 0 and Level 1 products

### SUMMARY

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## [Level 2 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	10SEP2008 07:57:01
Data source version	GOMOS/5.00
Start time of products	07SEP2008 00:17:06
Stop time of products	07SEP2008 04:36:06
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

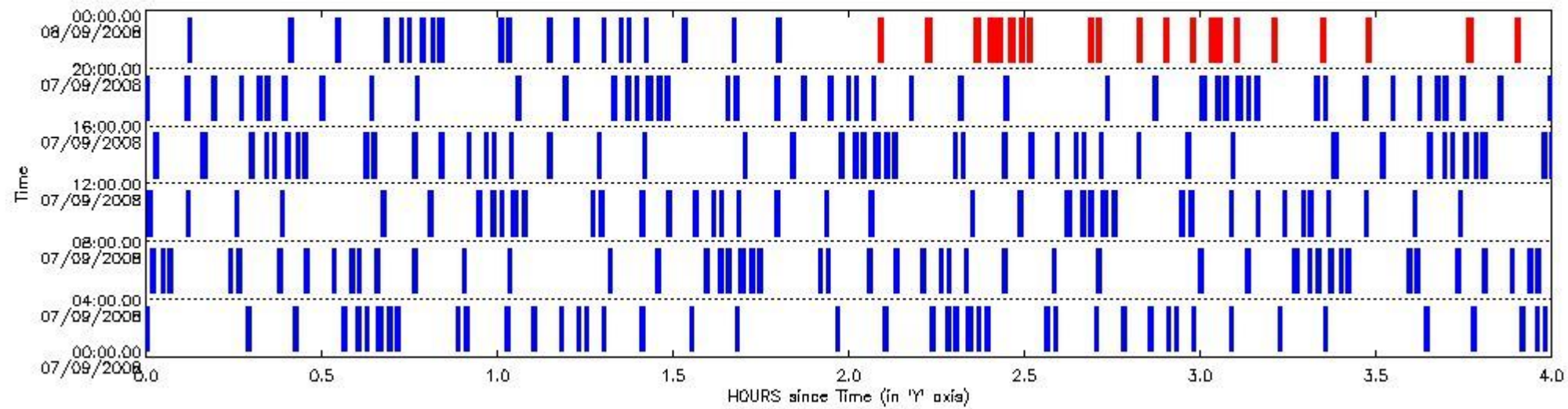
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



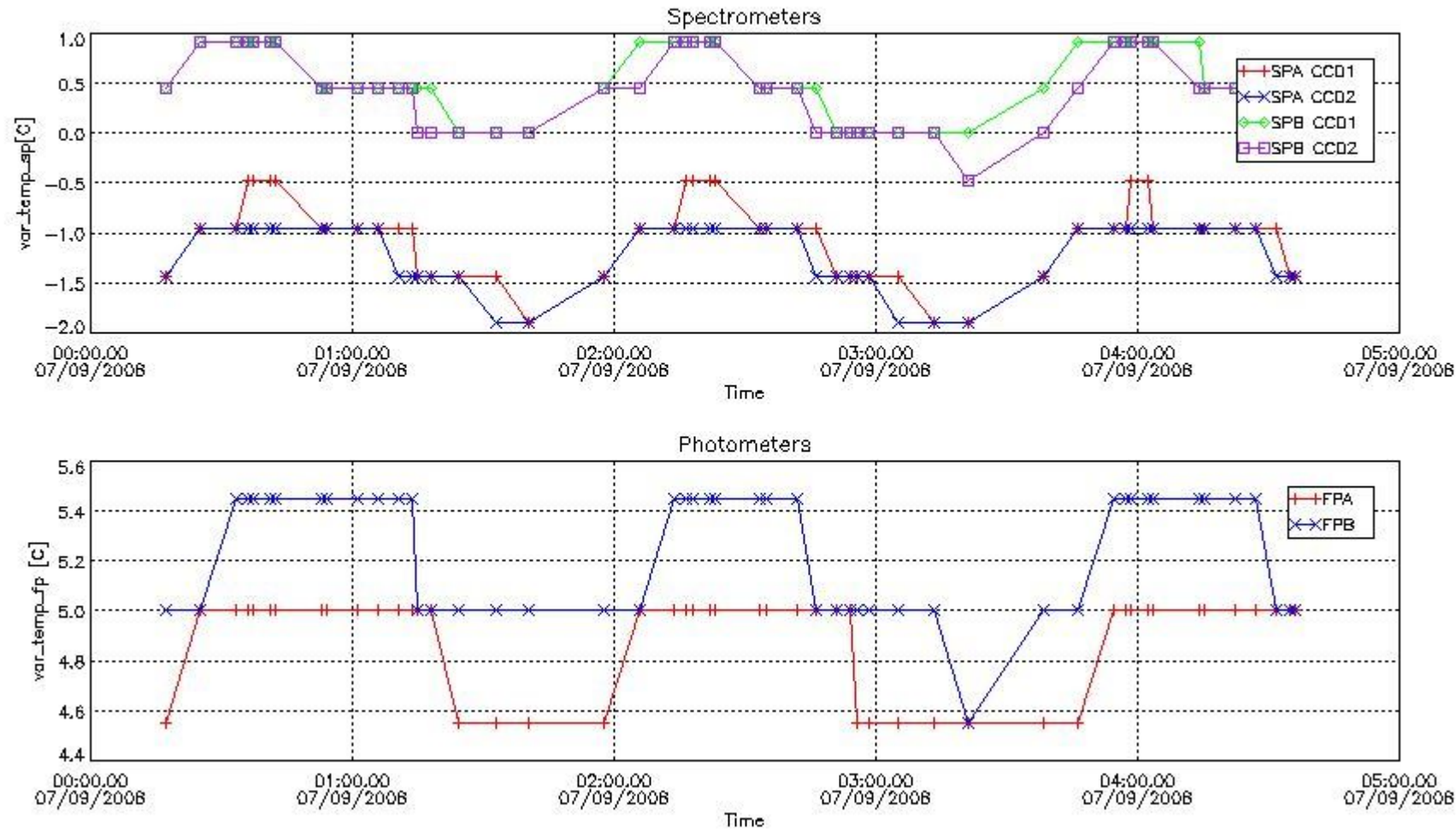
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
07-SEP-2008 22:04:57	66AlpGem	24	34108
07-SEP-2008 22:13:02	10AlpCMi	8	34108
07-SEP-2008 22:21:17	9AlpCMa	1	34108
07-SEP-2008 22:23:50	21EpsCMa	23	34108
07-SEP-2008 22:25:11	PiPup	117	34108
07-SEP-2008 22:27:20	DSA1059	0	34108
07-SEP-2008 22:29:03	AlpCol	108	34108
07-SEP-2008 22:30:25	AlpCar	2	34108
07-SEP-2008 22:40:49	AlpHyi	143	34109
07-SEP-2008 22:42:11	AlpEri	9	34109
07-SEP-2008 22:49:07	BetGru	63	34109
07-SEP-2008 22:53:42	24AlpPsA	18	34109
07-SEP-2008 22:58:20	49DelCap	142	34109
07-SEP-2008 23:01:25	22BetAqr	154	34109
07-SEP-2008 23:02:43	34AlpAqr	162	34109



49	GOM_TRA_1PNPDE20080907_043447_000000372071_00477_34098_3898.N1	07-SEP-2008 04:34:47	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	34098	No
50	GOM_TRA_1PNPDE20080907_043606_000000372071_00477_34098_3899.N1	07-SEP-2008 04:36:06	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	34098	No

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



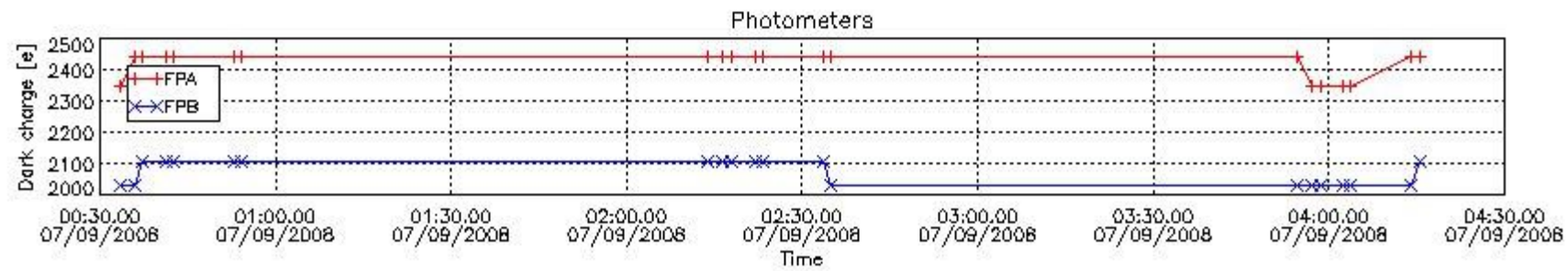
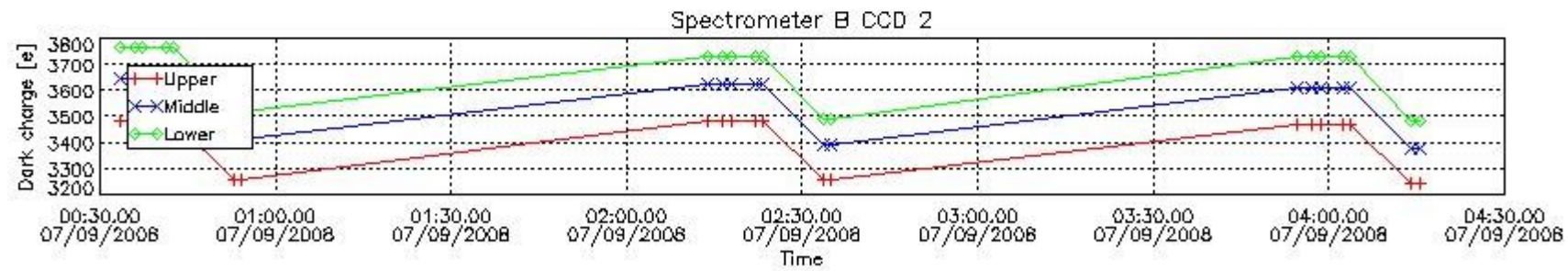
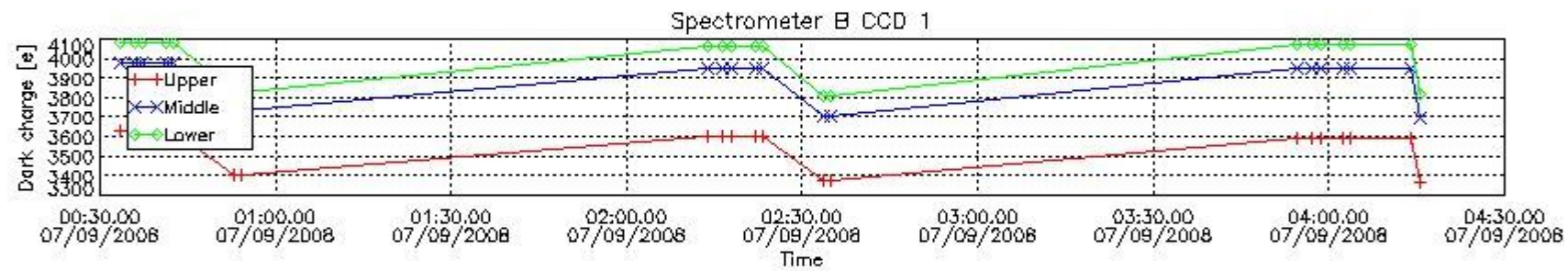
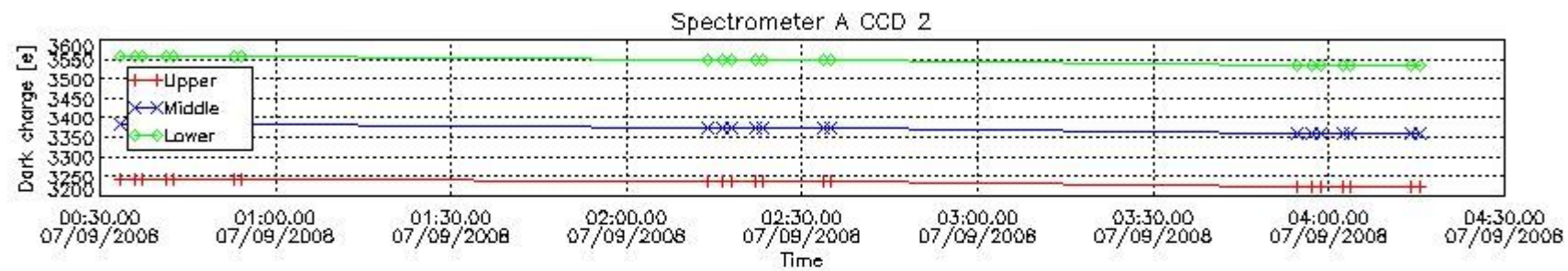
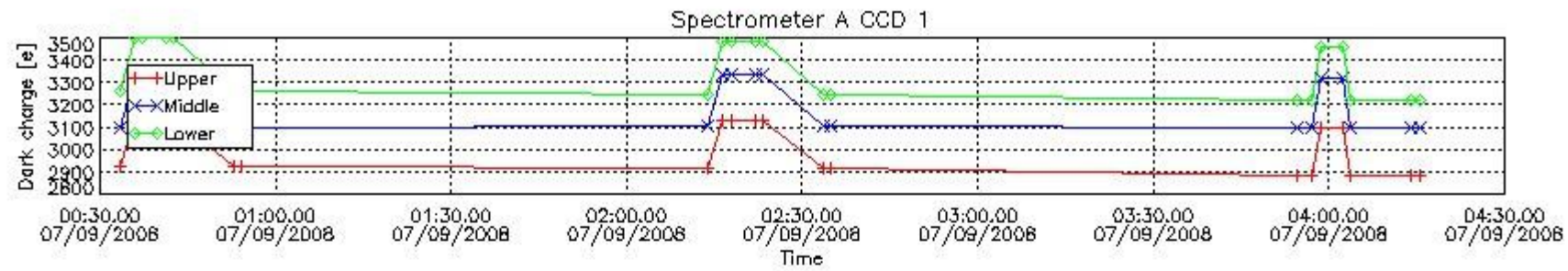
### 4. Overview of dark signal processing per product

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



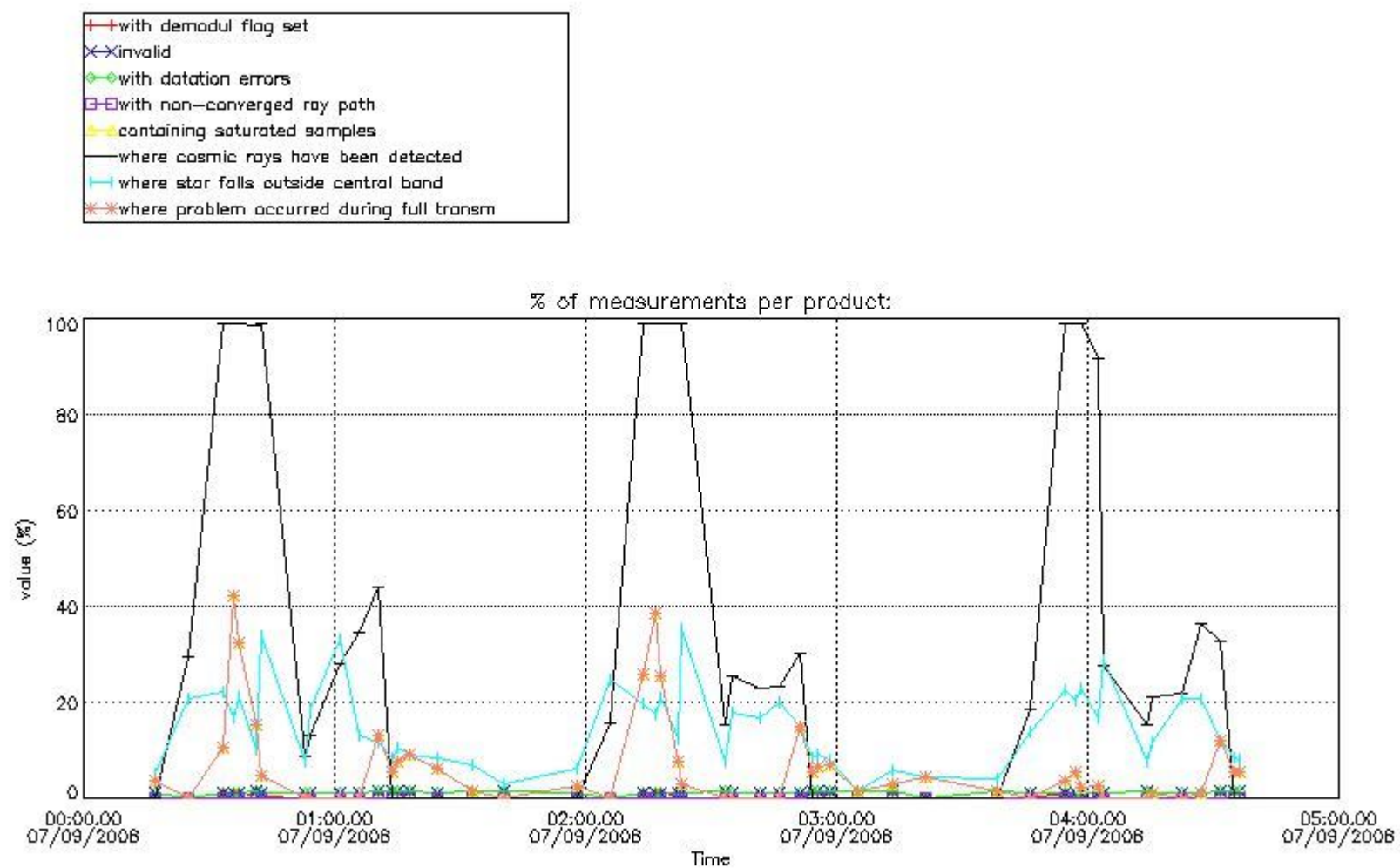
## 5. Demodulation flag and quality information monitoring

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.

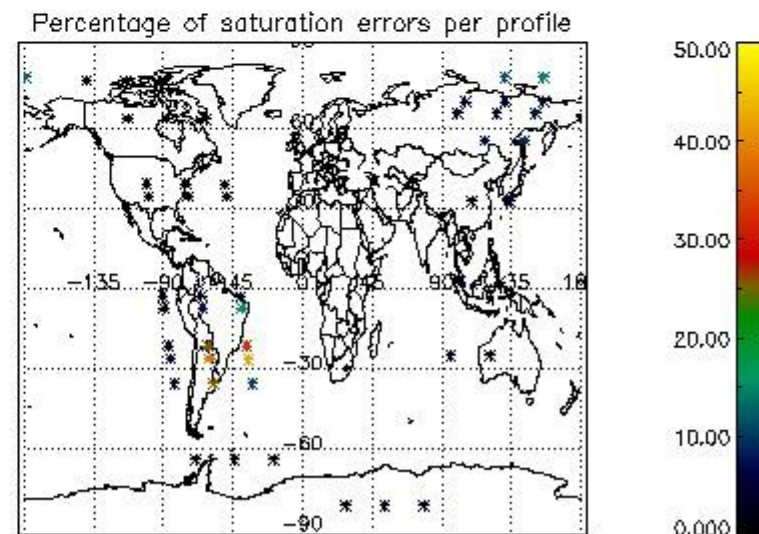
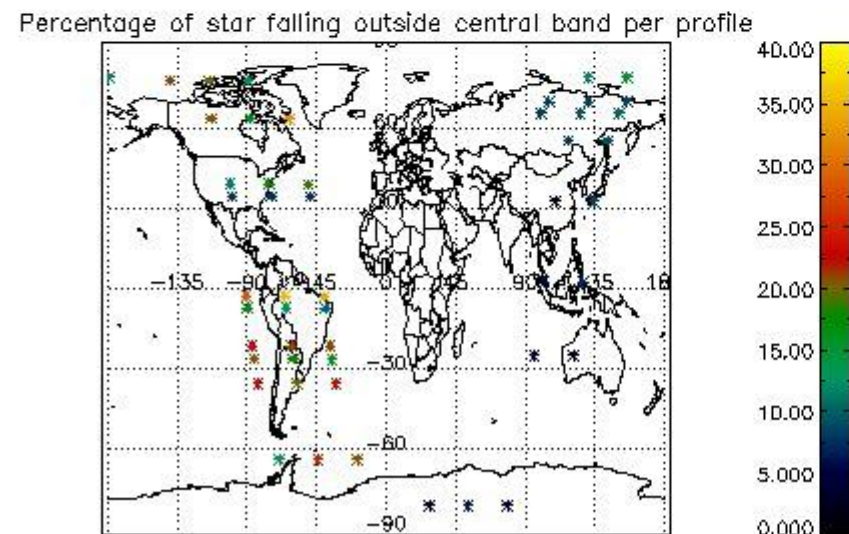
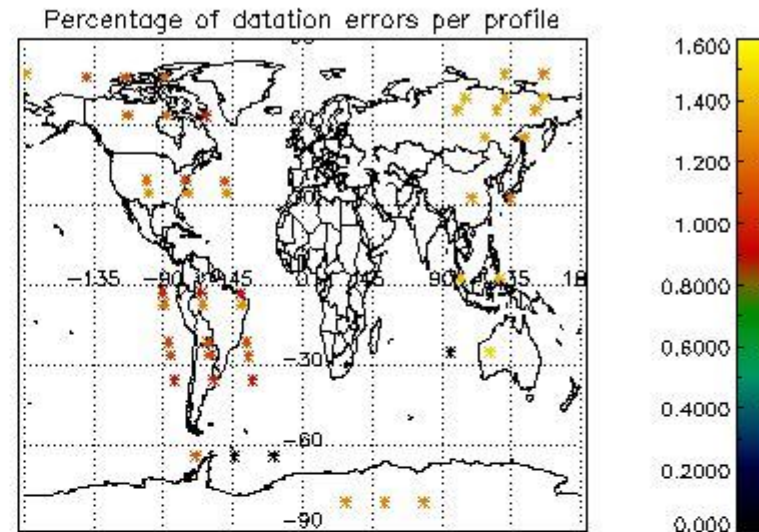
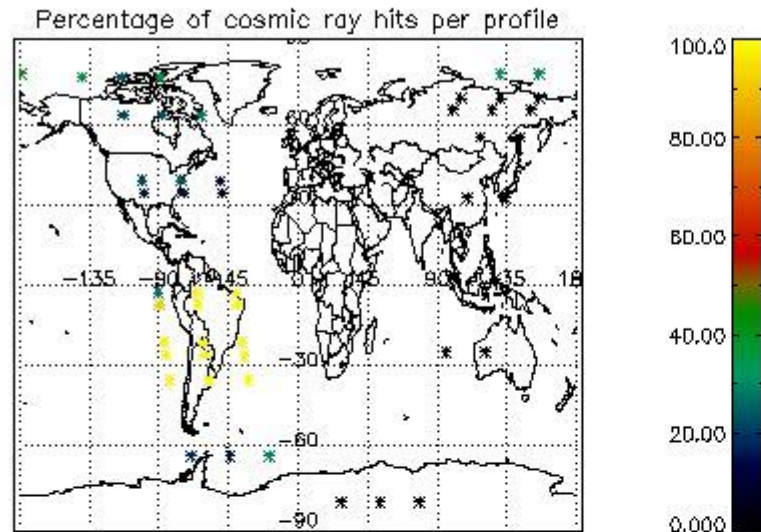
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



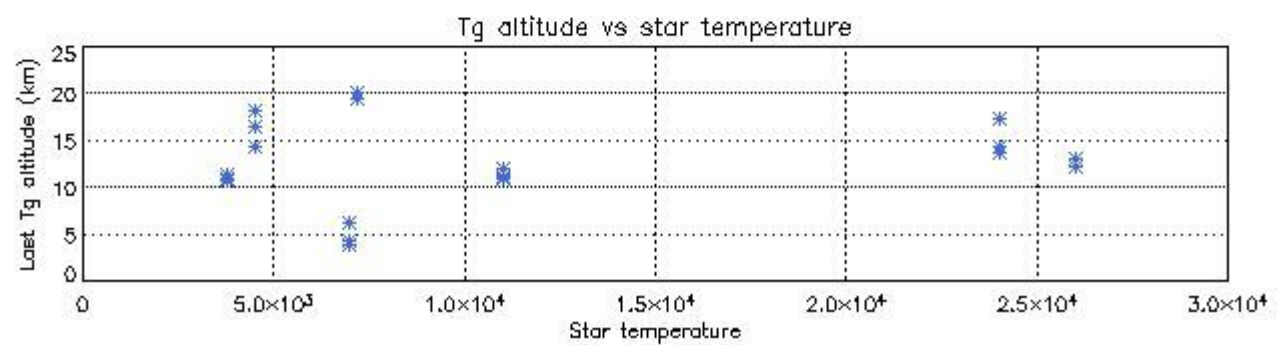
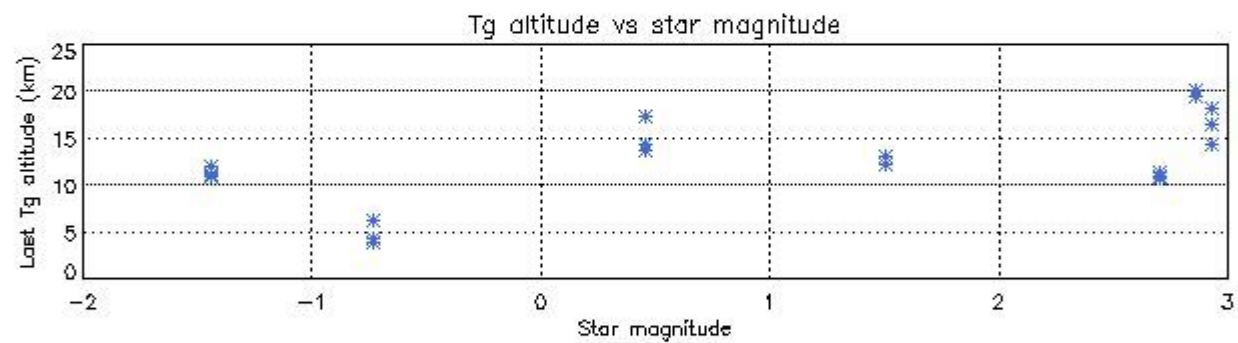
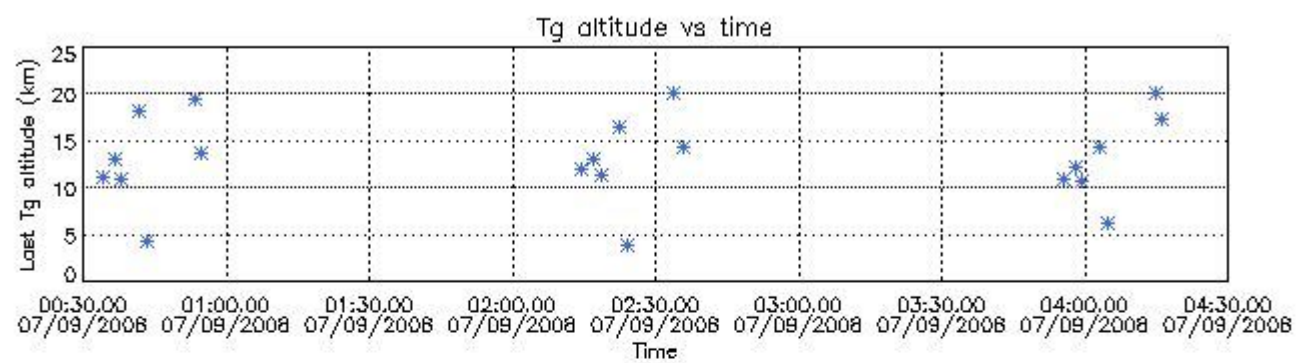
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.988	19.720	11.823
St. deviation:	4.6719	2.8499	2.3345
Maximum:	20.048	26.293	14.252
Minimum:	3.7652	14.210	9.5960
Number of data:	21.000	20.000	3.0000

### 6.2 Plot for DARK limb products

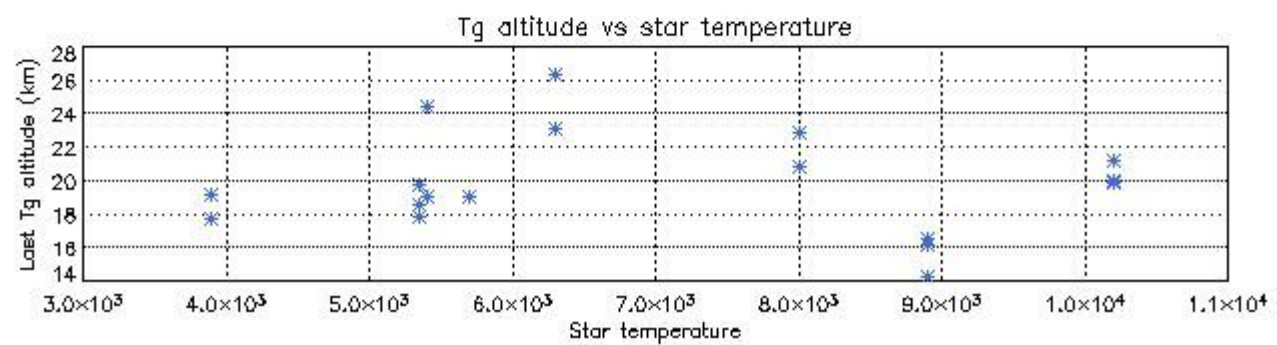
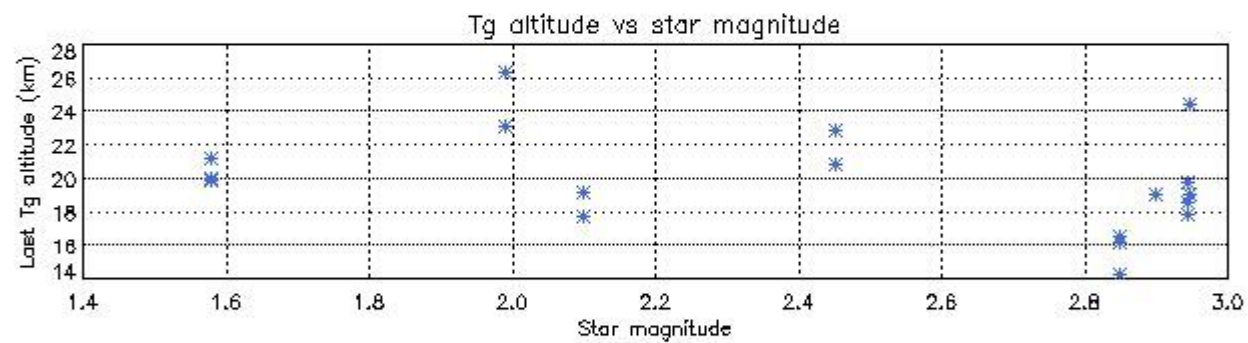
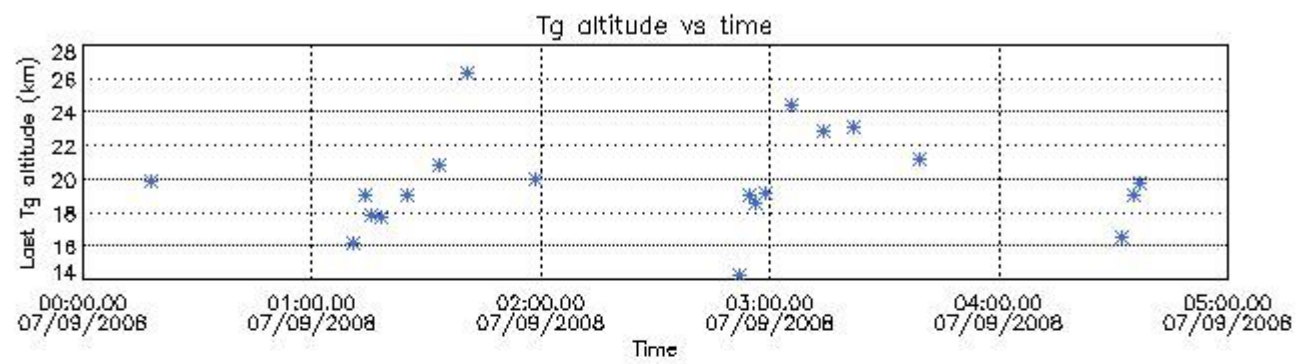
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

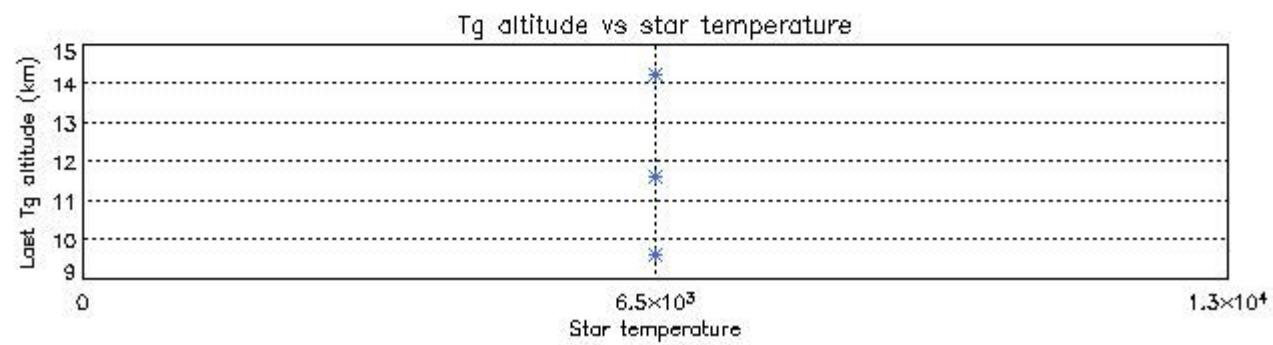
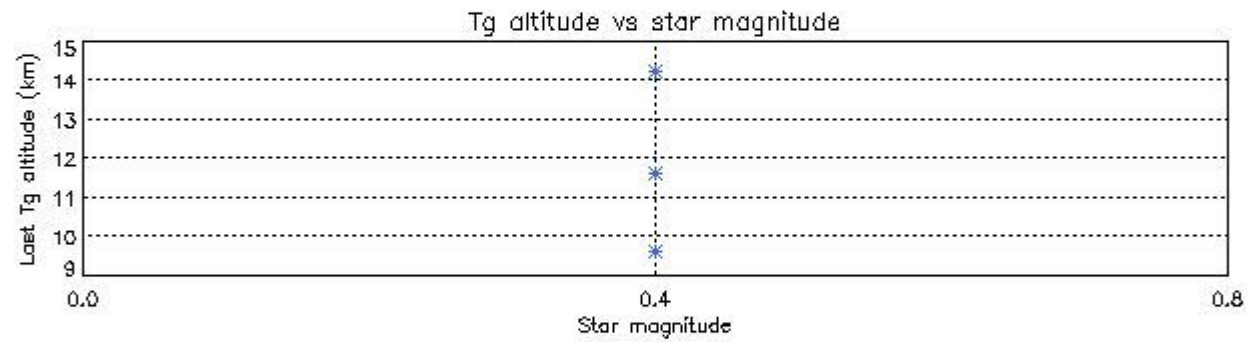
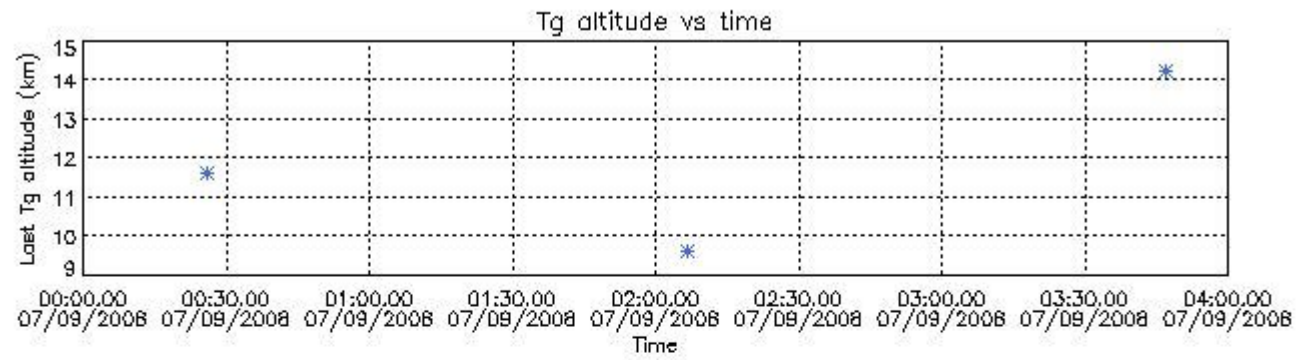


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

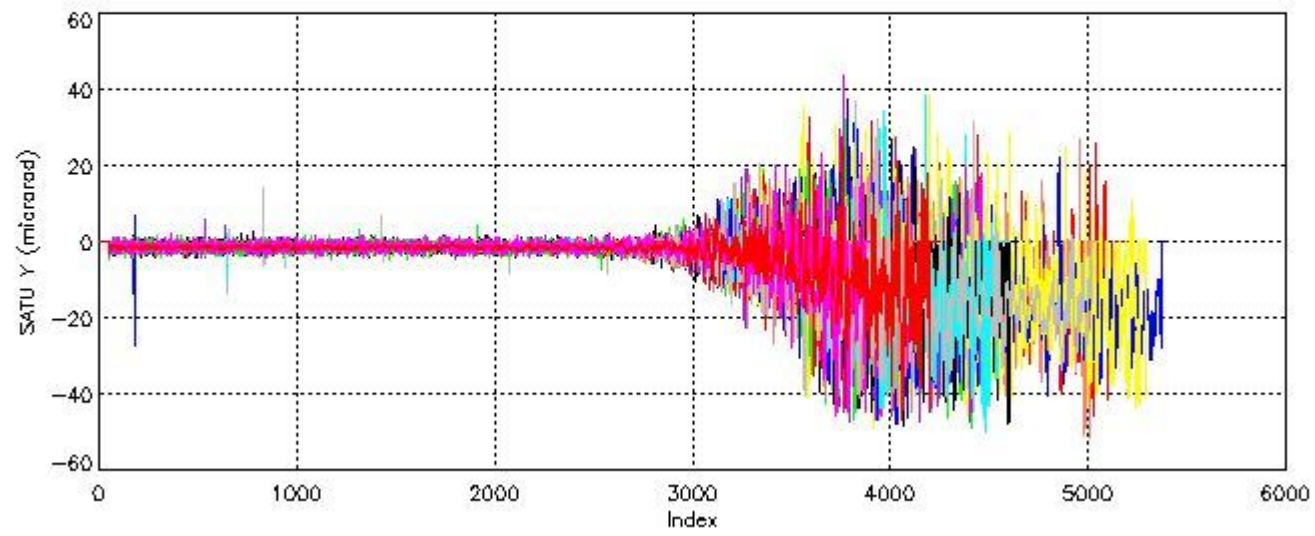
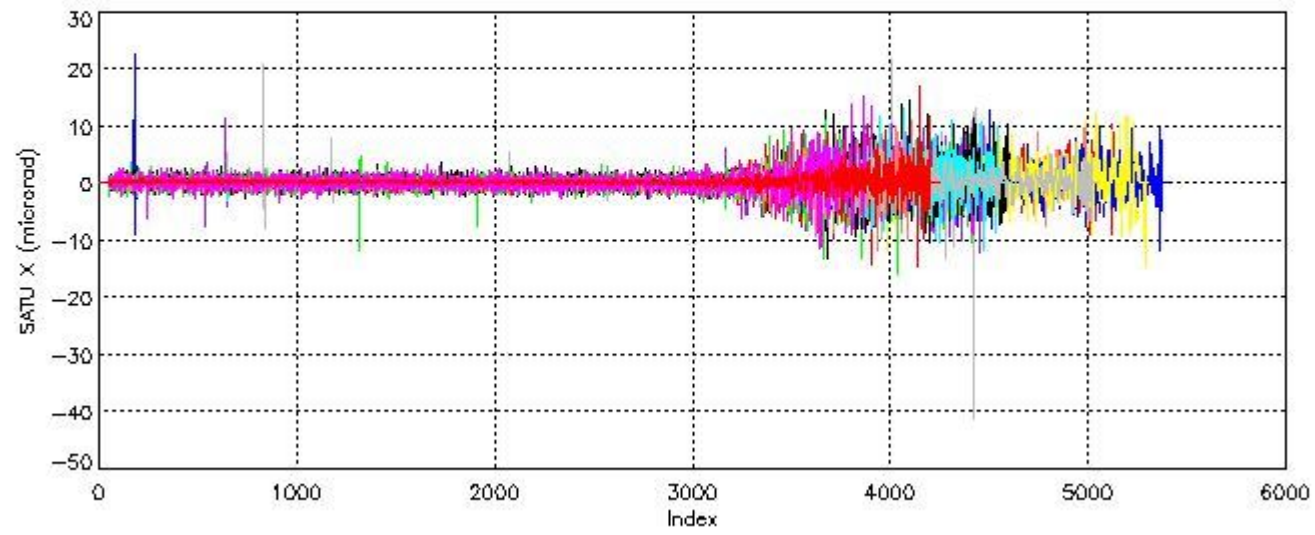


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.15696	-1.3323	0.12892	-1.3333
St. deviation:	0.45203	0.63648	0.70338	0.83595
Maximum:	22.700	14.200	3.4000	2.8000
Minimum:	-9.1000	-27.500	-3.8000	-5.4000

Number of data:	19600.	19600.	17050.	17050.
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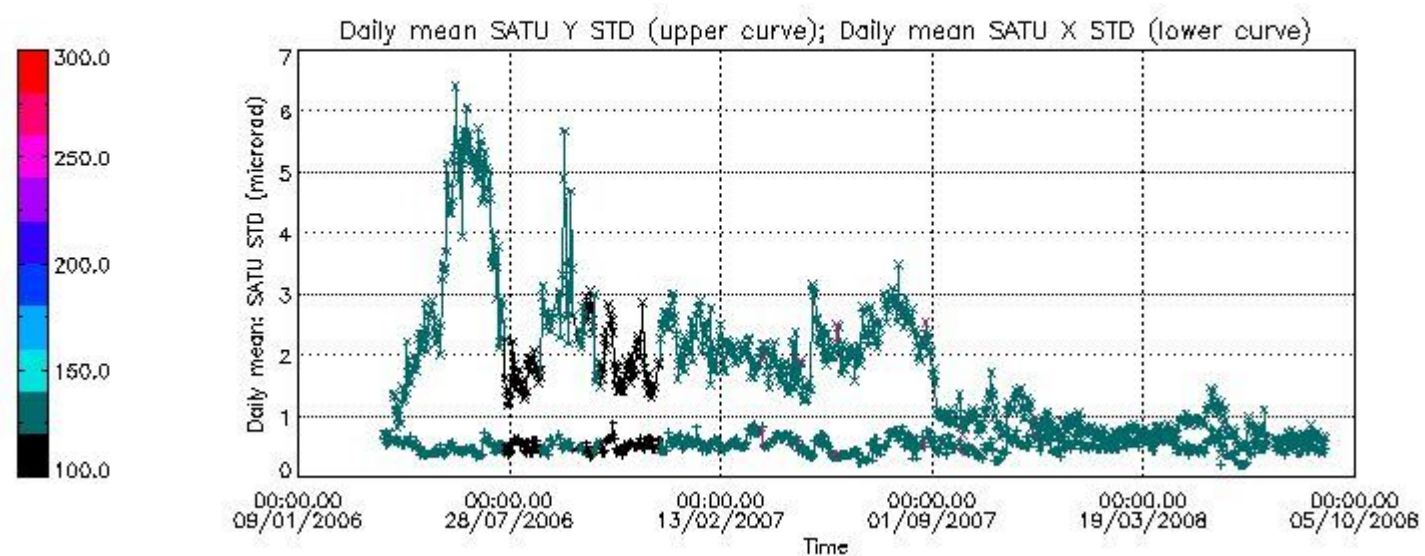
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

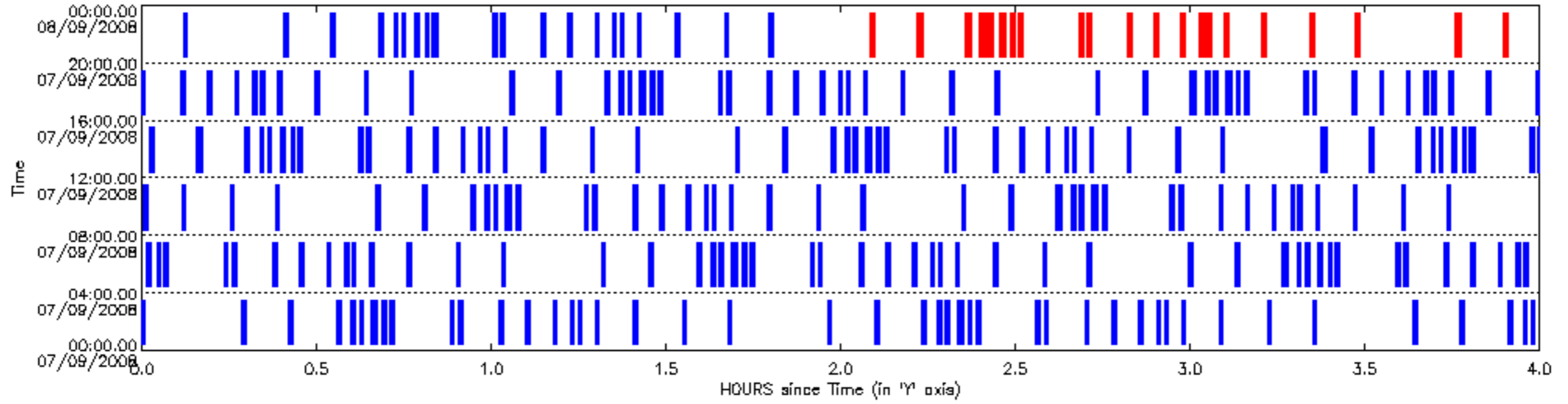
Lower curve: STD of SATU X axis

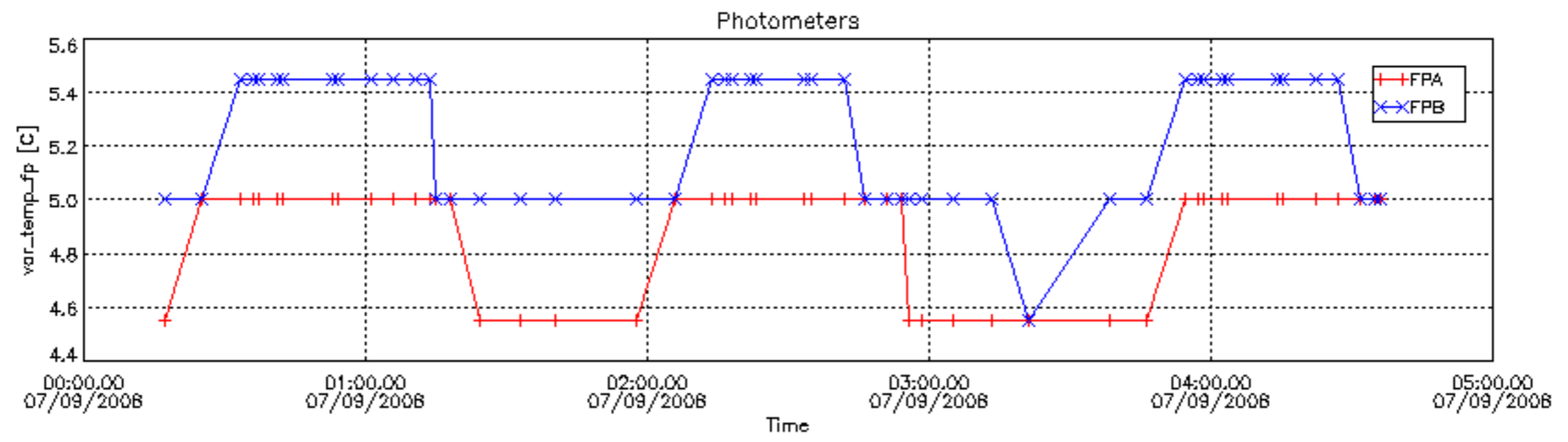
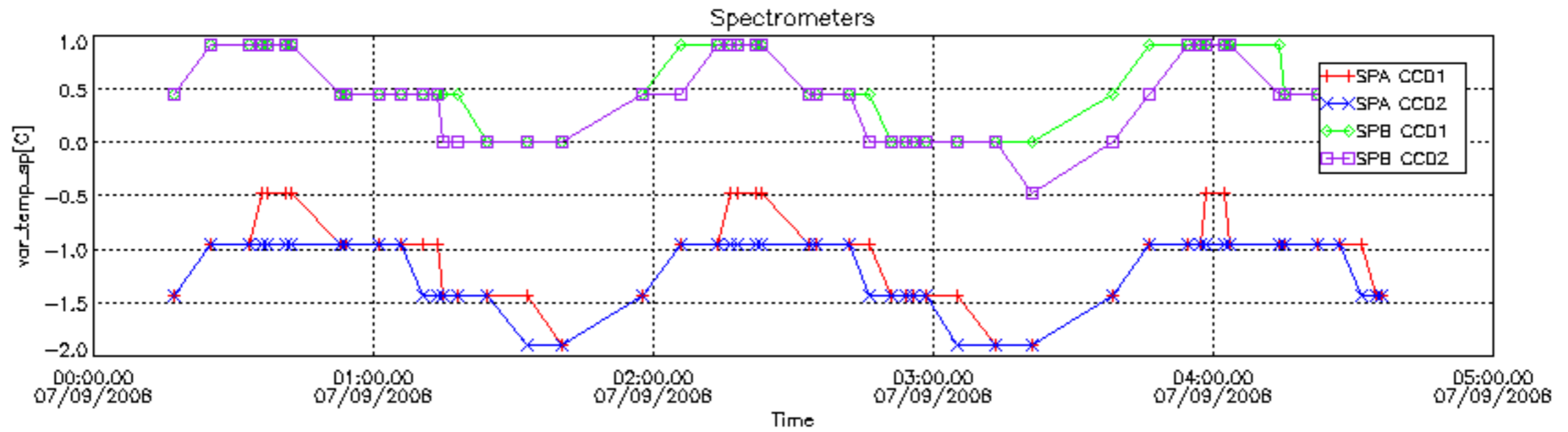


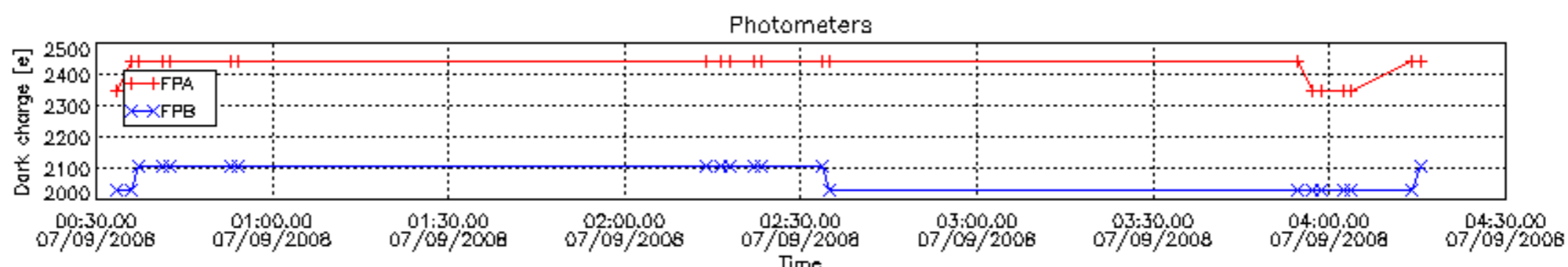
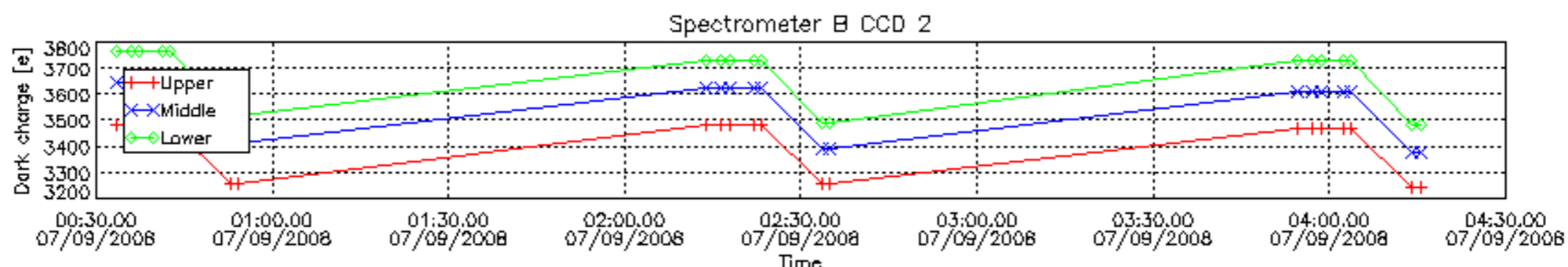
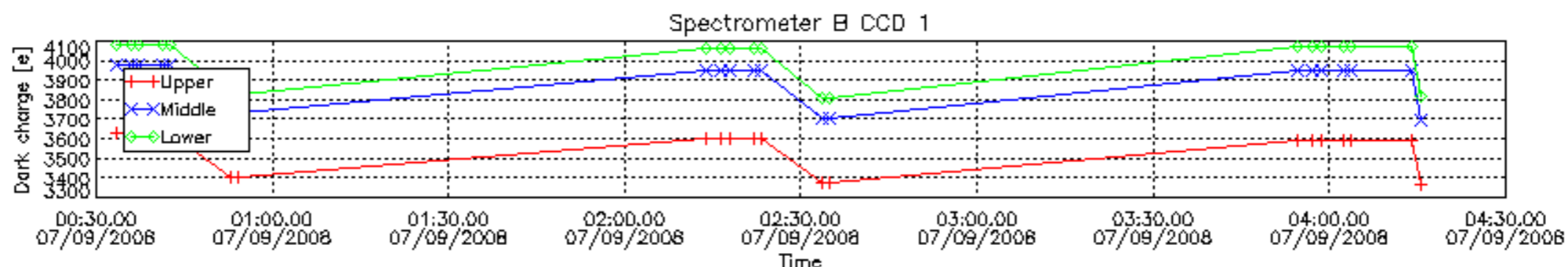
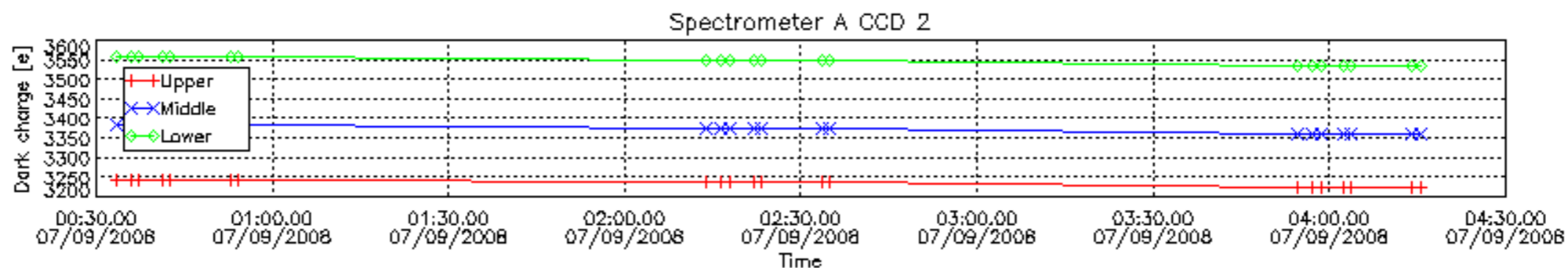
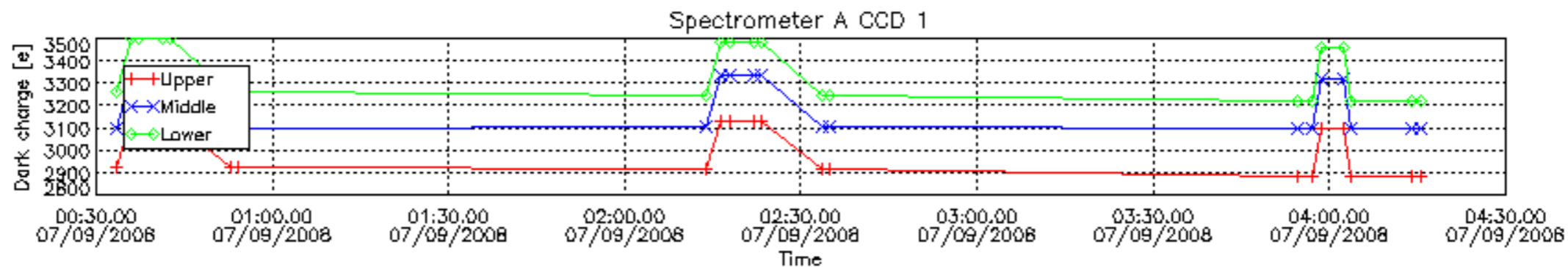
### 8. Auxiliary Data Files used for the production reported in section 2.4

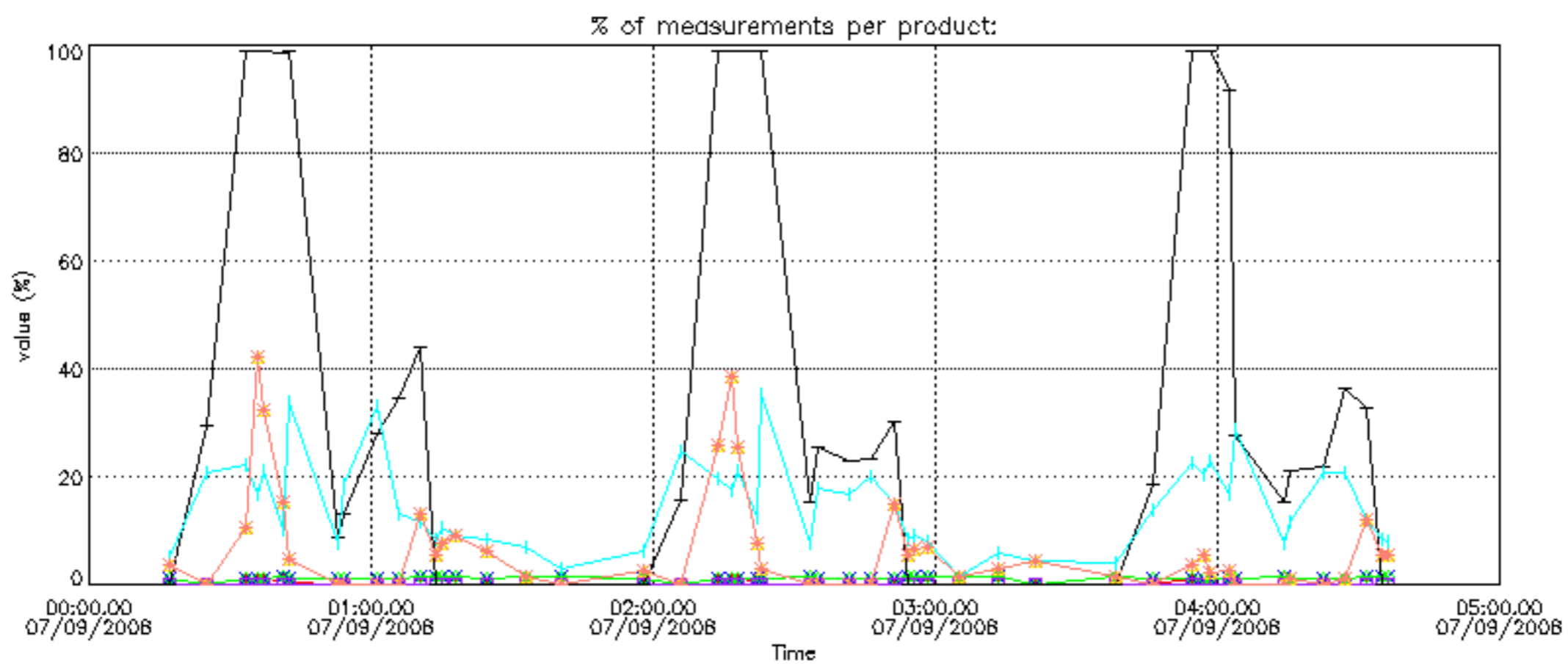
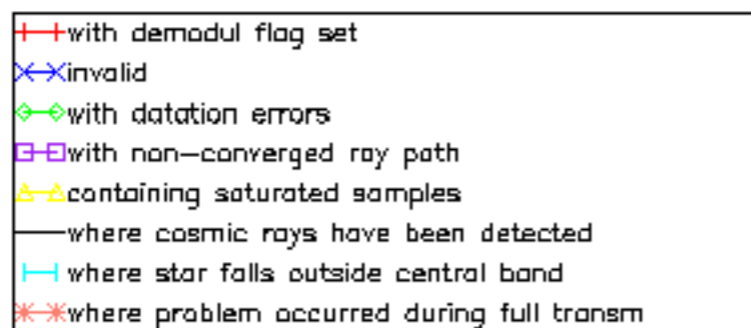
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-SEP-2008 00:17:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080904_073713_20080902_000000_20100101_000000	1	07-SEP-2008 00:17:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-SEP-2008 00:17:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-SEP-2008 00:17:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-SEP-2008 00:17:06
ECMWF_FILE	AUX_ECF_AXNECM20080906_072111_20080906_210000_20080907_090000	1	07-SEP-2008 00:17:06
ECMWF_FILE	AUX_ECF_AXNECM20080906_190111_20080907_030000_20080907_150000	37	07-SEP-2008 03:38:18
OPTIONAL_ECMWF_FILE	MISSING	1	07-SEP-2008 00:17:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080906_210248_000060572071_00472_34093_6309.N1	1	07-SEP-2008 00:17:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080906_224903_000057382071_00473_34094_6310.N1	3	07-SEP-2008 00:33:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080907_003000_000054192071_00474_34095_6311.N1	21	07-SEP-2008 02:13:55
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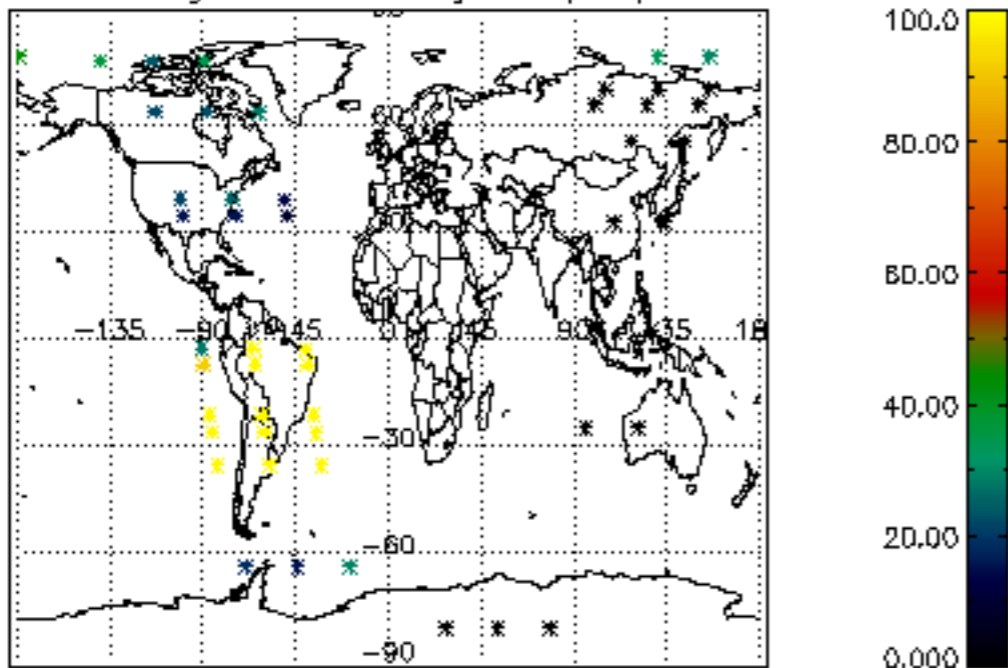




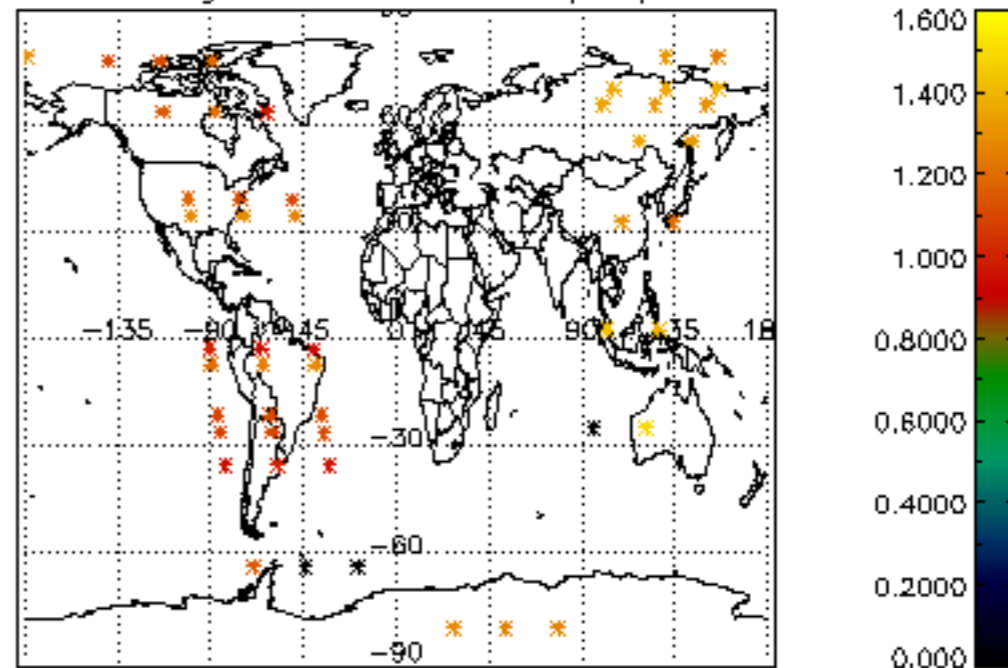




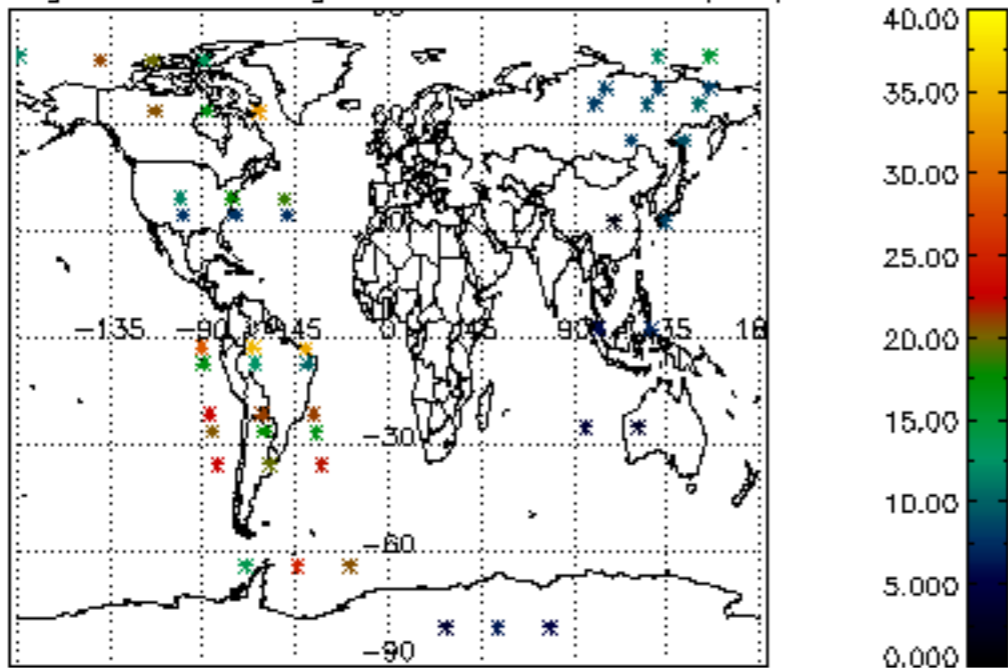
Percentage of cosmic ray hits per profile



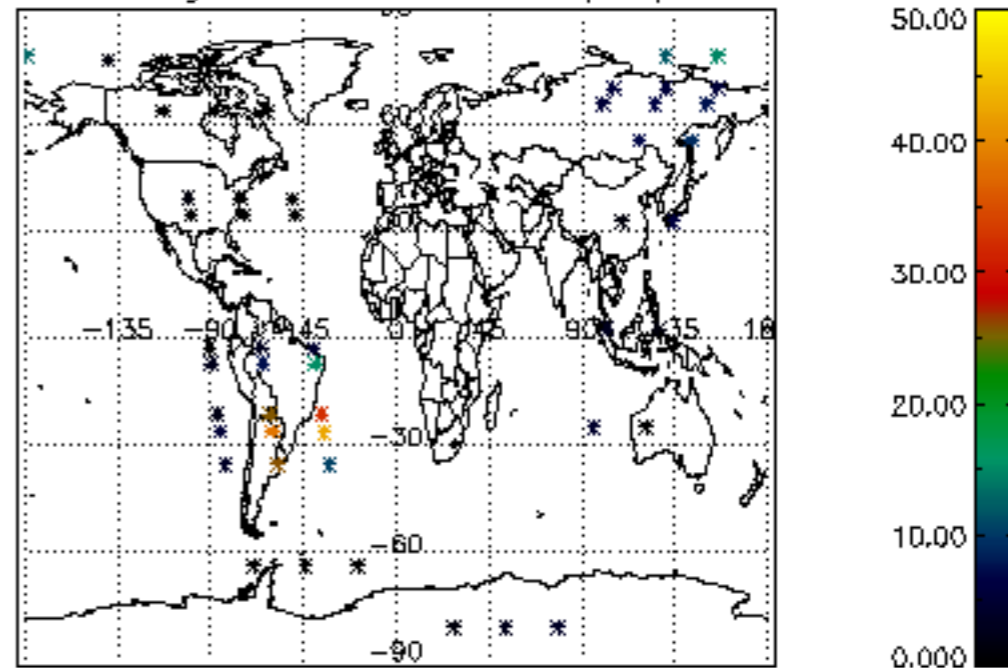
Percentage of datation errors per profile



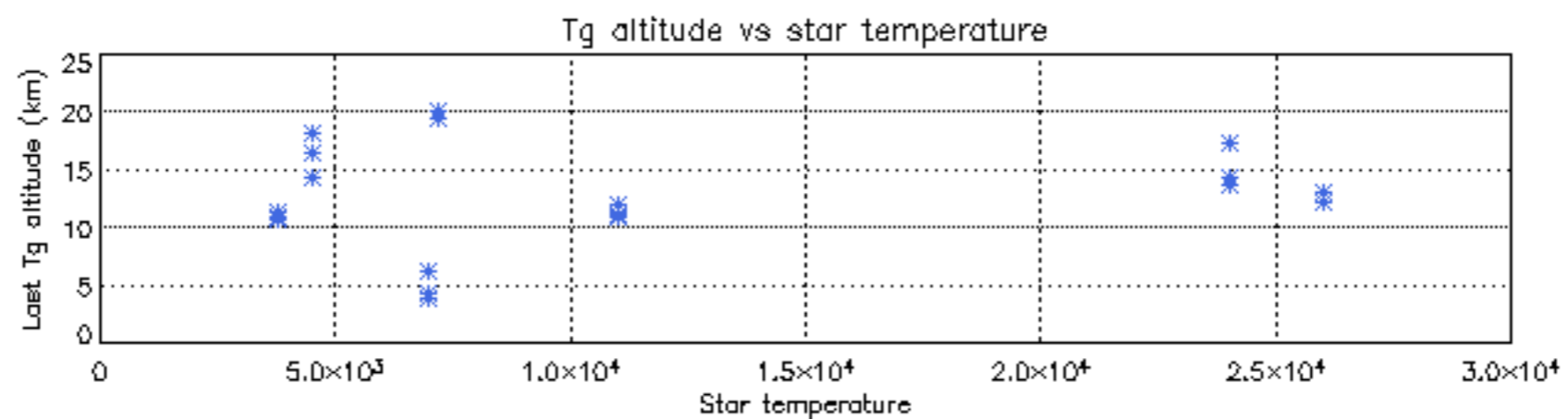
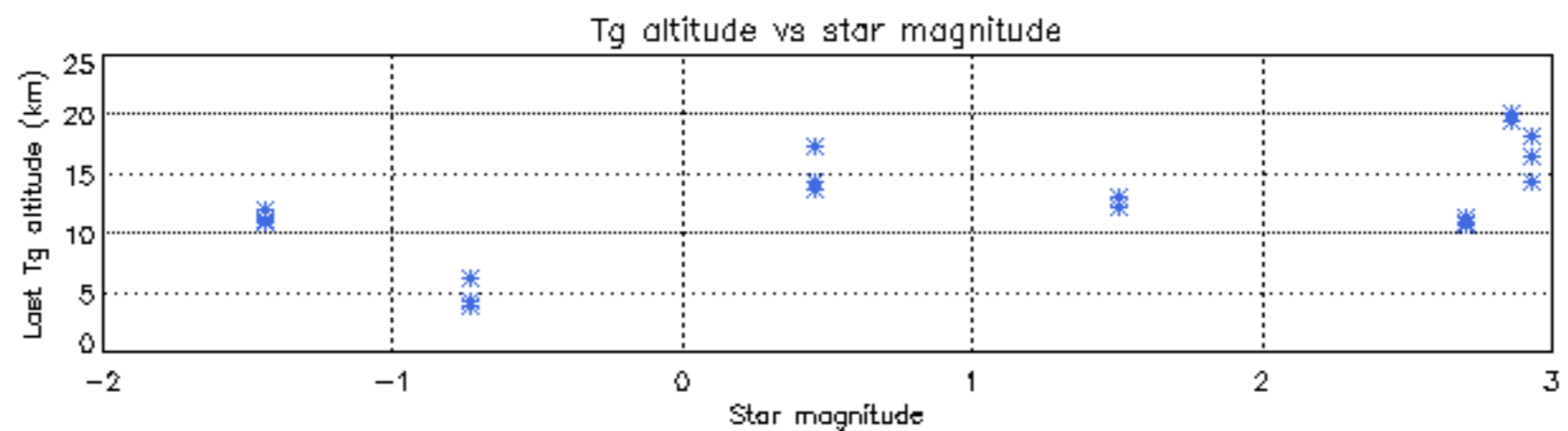
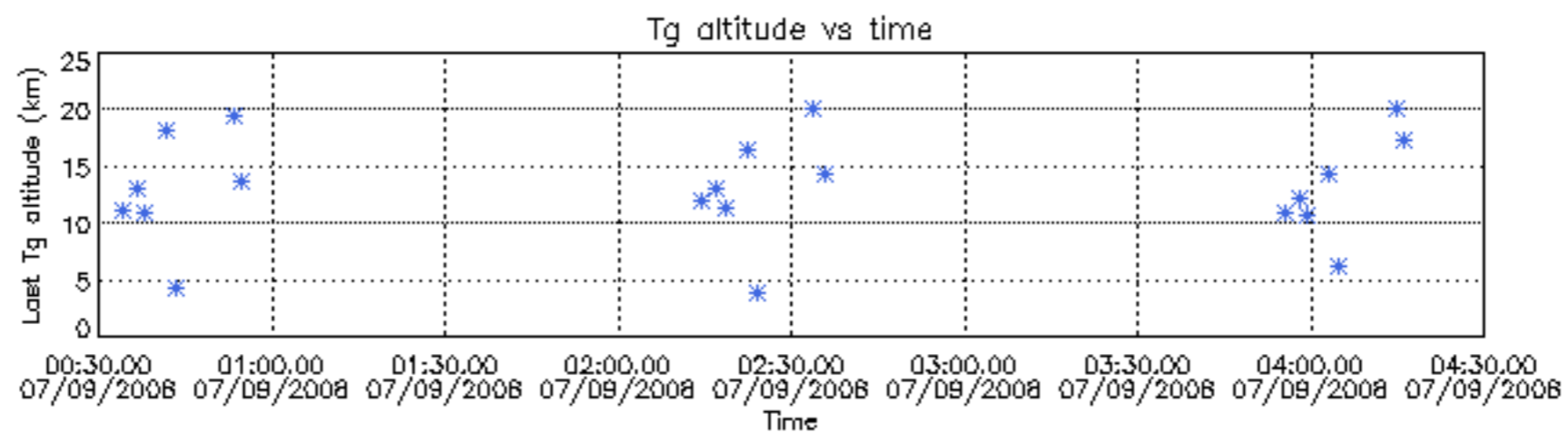
Percentage of star falling outside central band per profile



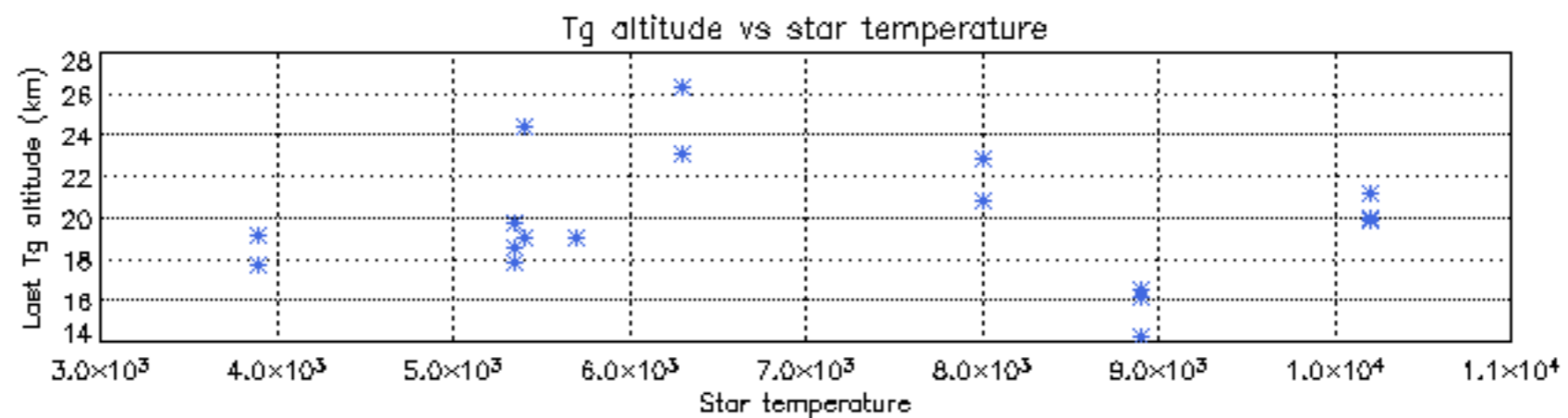
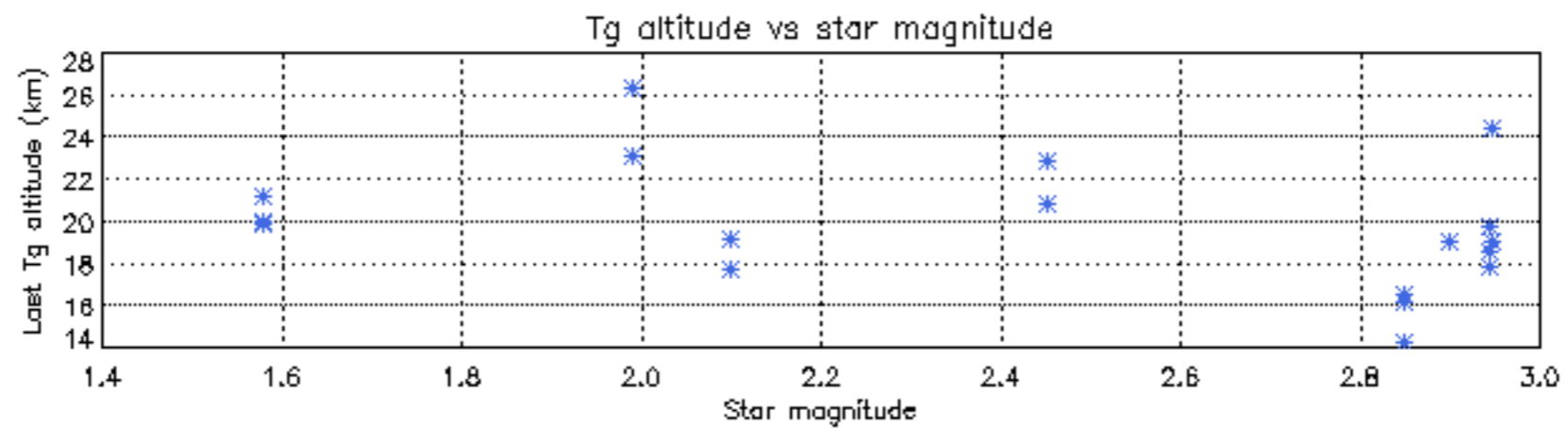
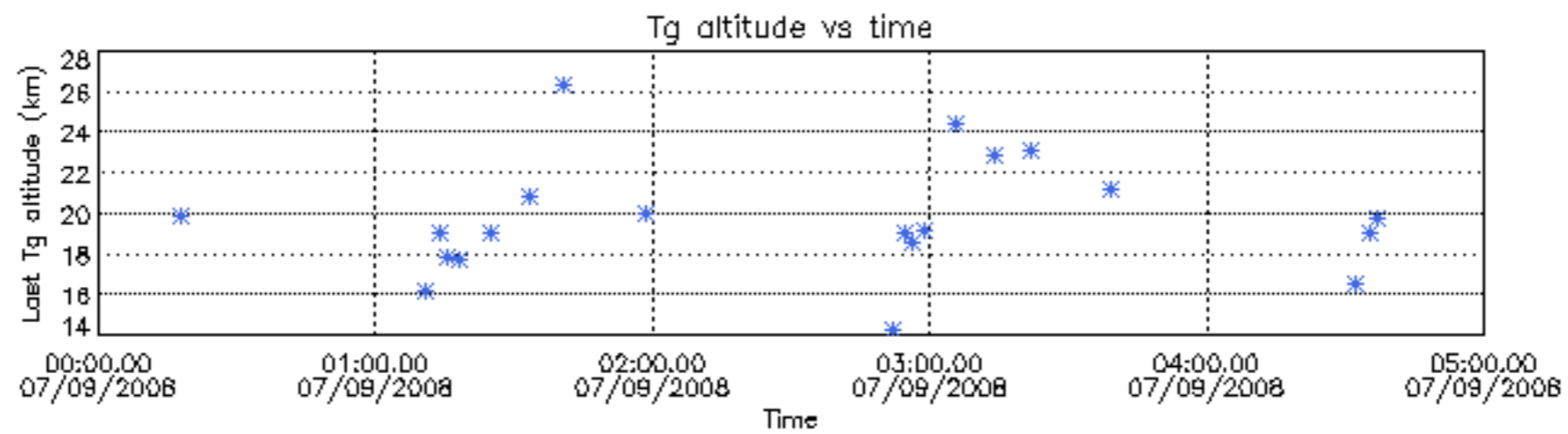
Percentage of saturation errors per profile



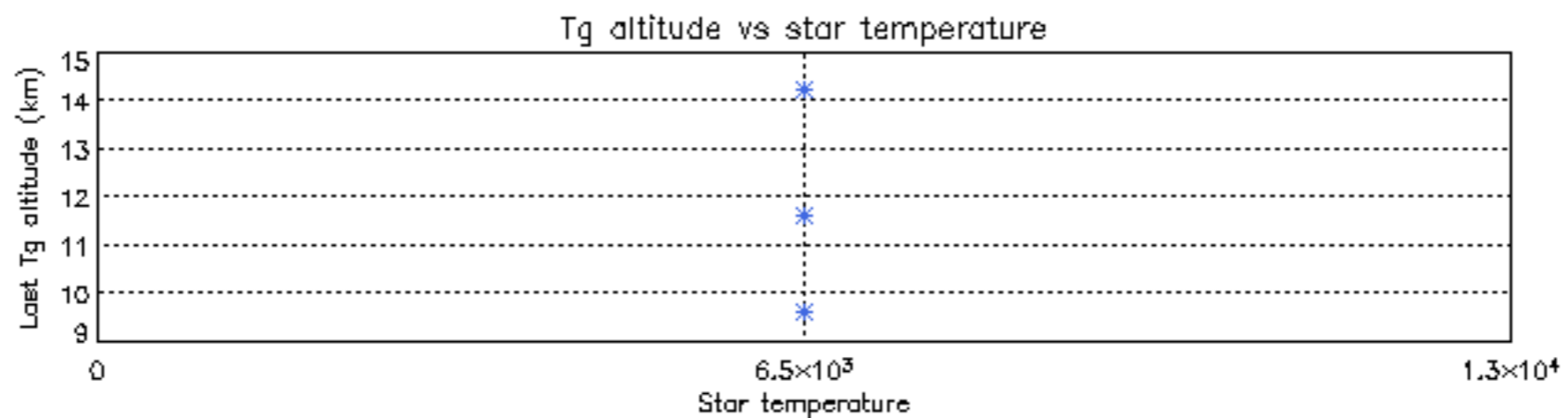
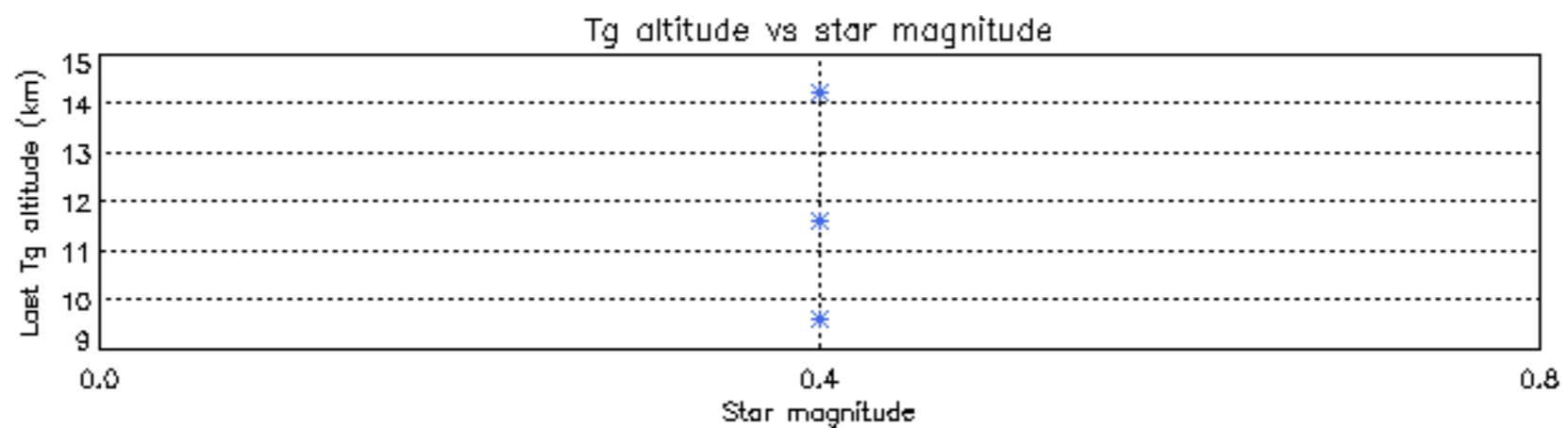
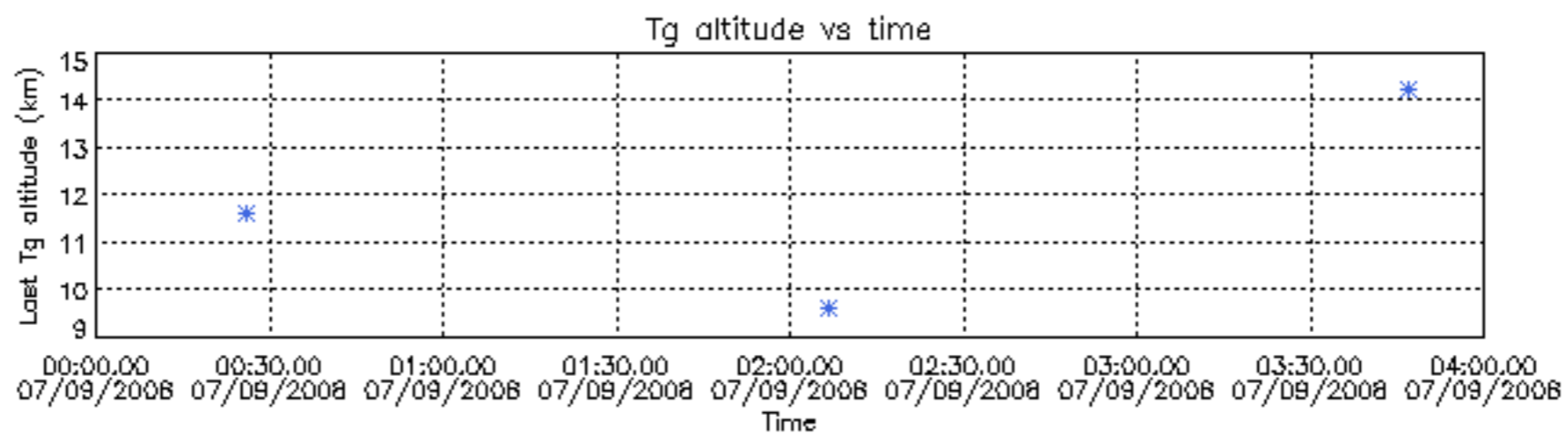
Tangent altitude at which the star is lost

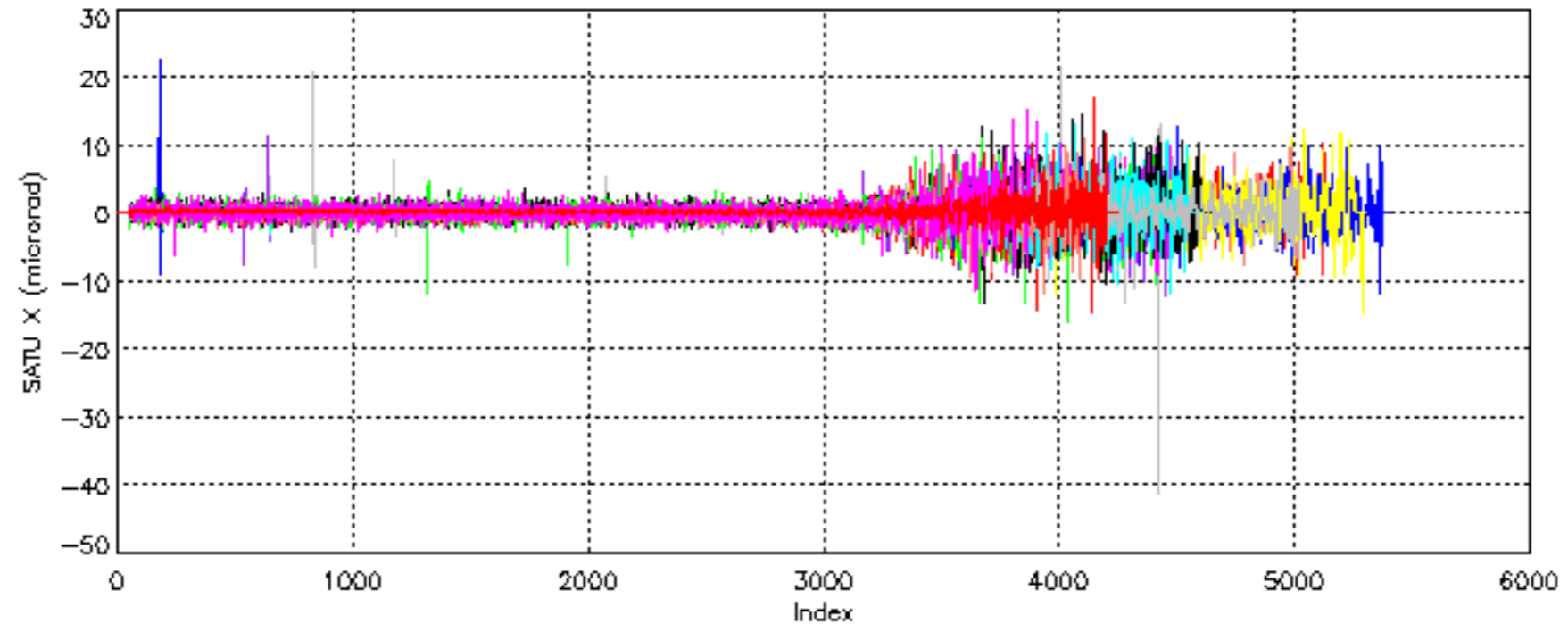


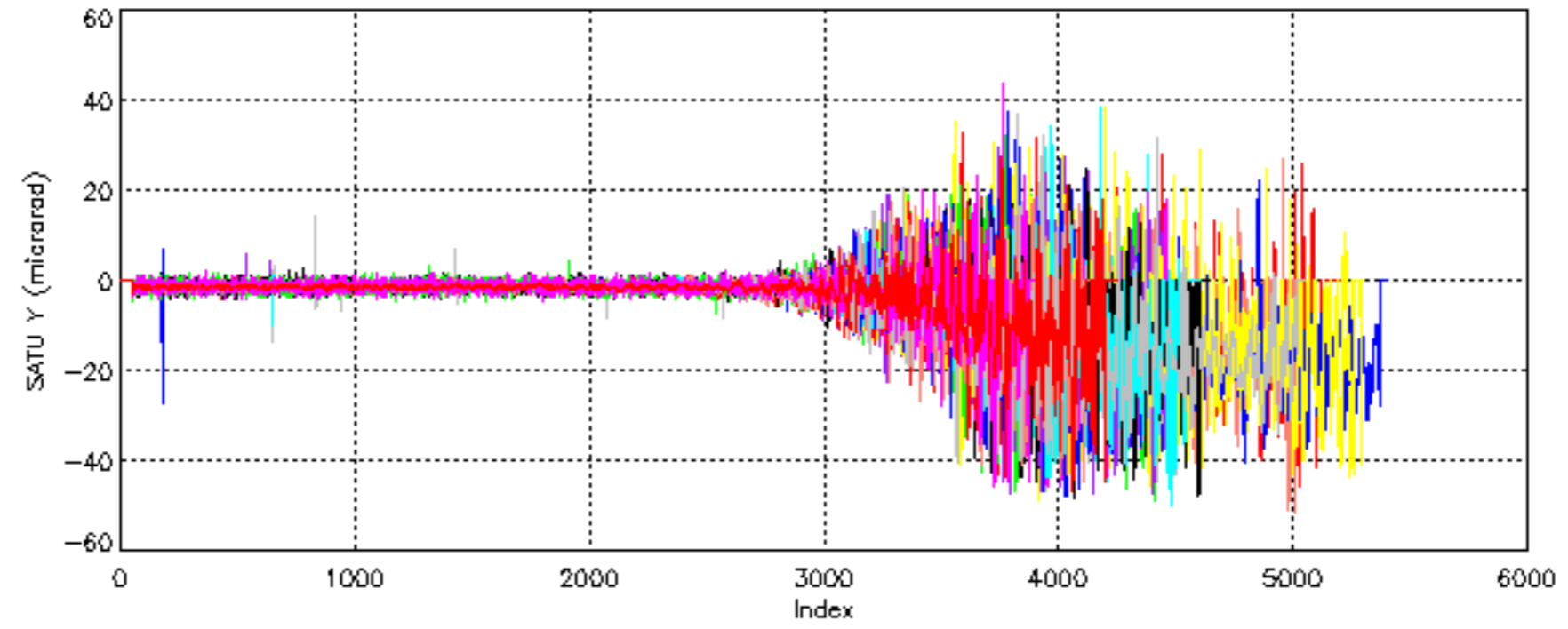
Tangent altitude at which the star is lost

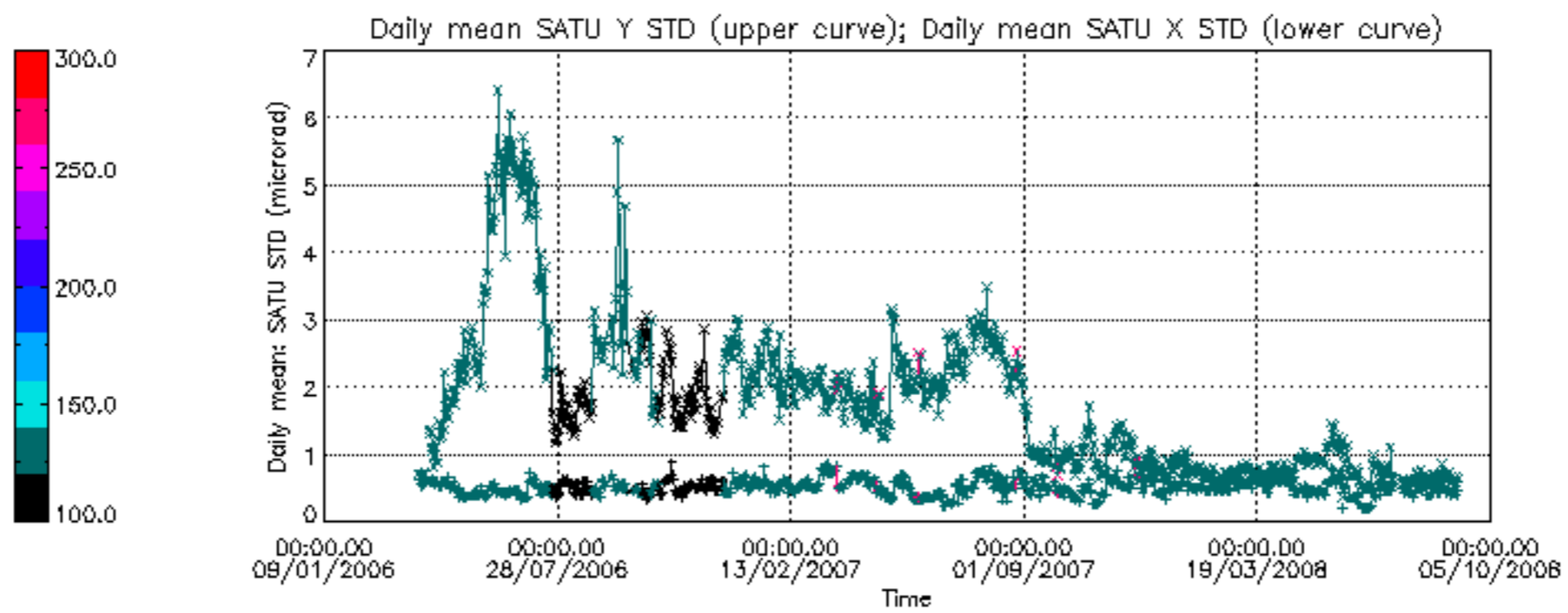


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080901\_002049\_000056142071\_00388\_34009\_6374.N1

1; -659.4; 01-SEP-2008 00:20:49; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;34009  
 2; -494.2; 01-SEP-2008 00:23:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34009  
 3; -399.8; 01-SEP-2008 00:25:09; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34009  
 4; -276.4; 01-SEP-2008 00:27:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34009  
 5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009  
 6; 529.6; 01-SEP-2008 00:40:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34010  
 7; 606.7; 01-SEP-2008 00:41:55; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34010  
 8; 964.3; 01-SEP-2008 00:47:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34010  
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9; 4464.3; 06-SEP-2008 15:54:06; Bright; 57.0; 24; 66Alp Gem ; 1.58; 10200;occ; 114; 0;34090  
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7; 634.6; 15-SEP-2008 03:23:20; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34212
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8; 2172.7; 19-SEP-2008 01:42:31; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34268
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11; 3006.8; 19-SEP-2008 01:56:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34268
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13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
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4; 2983.5; 23-SEP-2008 09:53:10; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34330
5; 3077.9; 23-SEP-2008 09:54:44; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34330
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9; 5703.0; 23-SEP-2008 10:38:29; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34330
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13; 6131.4; 23-SEP-2008 10:45:38; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;34330
14; 6812.4; 23-SEP-2008 10:56:58; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34330
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5; 2471.3; 23-SEP-2008 19:48:13; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;34336
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8; 5086.8; 24-SEP-2008 18:19:36; Dark ; 73.0; 8; 10Alp CMi ; 0.40; 6500;occ; 146; 0;34349
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 2; 1547.9; 25-SEP-2008 20:10:12; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;34365
 3; 2166.4; 25-SEP-2008 20:20:30; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34365
 4; 2388.5; 25-SEP-2008 20:24:12; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34365
 5; 2971.7; 25-SEP-2008 20:33:56; Bright; 57.0; 74; 11Bet Cas ; 2.27; 6600;occ; 114; 0;34365
 6; 3061.5; 25-SEP-2008 20:35:25; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34365
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 3; -301.7; 25-SEP-2008 21:19:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34365
 4; -211.2; 25-SEP-2008 21:21:29; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34365
 5; -91.3; 25-SEP-2008 21:23:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34365
 6; 36.6; 25-SEP-2008 21:25:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34366
 7; 791.5; 25-SEP-2008 21:38:11; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34366
 8; 1120.5; 25-SEP-2008 21:43:40; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34366
 9; 1547.9; 25-SEP-2008 21:50:48; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;34366
10; 2166.5; 25-SEP-2008 22:01:06; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34366
11; 2388.4; 25-SEP-2008 22:04:48; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;34366
12; 2971.3; 25-SEP-2008 22:14:31; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34366
13; 3061.0; 25-SEP-2008 22:16:01; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34366
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 5; 37.3; 25-SEP-2008 23:06:13; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34367
 6; 791.9; 25-SEP-2008 23:18:48; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34367
 7; 1120.8; 25-SEP-2008 23:24:16; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34367
 8; 1548.0; 25-SEP-2008 23:31:24; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;34367
 9; 2166.4; 25-SEP-2008 23:41:42; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34367
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11; 2970.9; 25-SEP-2008 23:55:07; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34367
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 4; -309.0; 25-SEP-2008 07:55:03; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34357
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 7; 31.2; 25-SEP-2008 08:00:43; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34358
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 9; 1118.1; 25-SEP-2008 08:18:50; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34358
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 2; 2389.1; 25-SEP-2008 08:40:01; Bright; 53.0; 93; 53Bet Peg ; 2.52; 3100;occ; 106; 0;34358
 3; 2974.0; 25-SEP-2008 08:49:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34358
 4; 3064.7; 25-SEP-2008 08:51:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34358
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 6; 5093.9; 25-SEP-2008 09:25:06; Dark ; 74.0; 8; 10Alp CMI ; 0.40; 6500;occ; 148; 0;34358
 7; 5529.3; 25-SEP-2008 09:32:22; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34358
 8; 5727.8; 25-SEP-2008 09:35:40; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;34358
 9; 5816.9; 25-SEP-2008 09:37:09; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34358
10; 5939.9; 25-SEP-2008 09:39:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34358
11; 6067.7; 25-SEP-2008 09:41:20; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;34358
12; 6824.6; 25-SEP-2008 09:53:57; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;34358
13; 7154.2; 25-SEP-2008 09:59:27; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;34358

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3; 2973.6; 25-SEP-2008 10:30:22; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34359  
4; 3064.2; 25-SEP-2008 10:31:52; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34359  
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7; 5529.9; 25-SEP-2008 11:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34359  
8; 5728.7; 25-SEP-2008 11:16:17; Dark ; 44.0; 88; 31Eta CMa ; 2.45; 20000;occ; 88; 0;34359  
9; 5818.0; 25-SEP-2008 11:17:46; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;34359  
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3; 2388.9; 25-SEP-2008 12:01:13; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34360  
4; 2973.3; 25-SEP-2008 12:10:57; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34360  
5; 3063.9; 25-SEP-2008 12:12:28; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34360  
6; 4501.4; 25-SEP-2008 12:36:25; Bright; 27.0; 24; 66Alp Gem ; 1.58; 10200;occ; 54; 0;34360  
7; 5095.4; 25-SEP-2008 12:46:19; Dark ; 67.0; 8; 10Alp CMi ; 0.40; 6500;occ; 134; 0;34360  
8; 5530.6; 25-SEP-2008 12:53:35; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;34360  
9; 5729.7; 25-SEP-2008 12:56:54; Dark ; 47.5; 88; 31Eta CMa ; 2.45; 20000;occ; 95; 0;34360  
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13; 6825.4; 25-SEP-2008 13:15:09; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;34360  
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13; 6825.9; 25-SEP-2008 14:55:46; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;34361  
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6; 4501.6; 25-SEP-2008 14:17:02; Bright; 27.0; 24; 66Alp Gem ; 1.58; 10200;occ; 54; 0;34361  
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9; 5730.6; 25-SEP-2008 14:37:31; Dark ; 45.5; 88; 31Eta CMa ; 2.45; 20000;occ; 91; 0;34361  
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4; 2972.8; 25-SEP-2008 15:32:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34362  
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9; 5821.6; 25-SEP-2008 16:19:37; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34362
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9; 5733.4; 25-SEP-2008 19:39:21; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34364
10; 5823.6; 25-SEP-2008 19:40:51; Dark ; 61.5; 23; 21Eps CMA ; 1.50; 26000;occ; 123; 0;34364
11; 5944.0; 25-SEP-2008 19:42:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34364
12; 6071.9; 25-SEP-2008 19:45:00; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;34364
13; 6827.2; 25-SEP-2008 19:57:35; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;34364
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2; -89.9; 26-SEP-2008 00:44:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34367
3; 38.0; 26-SEP-2008 00:46:49; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34368
4; 792.3; 26-SEP-2008 00:59:24; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;34368
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6; 1548.2; 26-SEP-2008 01:12:00; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;34368
7; 2166.5; 26-SEP-2008 01:22:18; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;34368
8; 2388.3; 26-SEP-2008 01:26:00; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34368
9; 2970.7; 26-SEP-2008 01:35:42; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34368
10; 3060.0; 26-SEP-2008 01:37:12; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;34368
11; 4584.4; 26-SEP-2008 02:02:36; Bright; 71.0; 17; 78Bet Gem ; 1.16; 4500;occ; 142; 0;34368
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3; -89.2; 26-SEP-2008 02:25:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34368
4; 38.7; 26-SEP-2008 02:27:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34369
5; 792.8; 26-SEP-2008 02:40:00; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34369
6; 1121.5; 26-SEP-2008 02:45:29; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34369
7; 1548.4; 26-SEP-2008 02:52:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34369
8; 2166.6; 26-SEP-2008 03:02:54; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34369
9; 2388.3; 26-SEP-2008 03:06:36; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34369
10; 2970.4; 26-SEP-2008 03:16:18; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34369
11; 3059.8; 26-SEP-2008 03:17:47; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;34369
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3; -499.1; 26-SEP-2008 03:59:04; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;34369
4; -297.8; 26-SEP-2008 04:02:26; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34369
5; -206.6; 26-SEP-2008 04:03:57; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;34369
6; -88.5; 26-SEP-2008 04:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34369
7; 39.5; 26-SEP-2008 04:08:03; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34370

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9; 1121.9; 26-SEP-2008 04:26:05; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34370
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11; 2166.7; 26-SEP-2008 04:43:30; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;34370
12; 2388.4; 26-SEP-2008 04:47:12; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34370
13; 2970.2; 26-SEP-2008 04:56:54; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34370
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3; -498.3; 26-SEP-2008 05:39:41; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;34370
4; -296.9; 26-SEP-2008 05:43:02; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34370
5; -205.4; 26-SEP-2008 05:44:34; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34370
6; -87.8; 26-SEP-2008 05:46:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34370
7; 40.2; 26-SEP-2008 05:48:40; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34371
8; 796.1; 26-SEP-2008 06:01:15; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;34371
9; 1122.2; 26-SEP-2008 06:06:42; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34371
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11; 2166.6; 26-SEP-2008 06:24:06; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;34371
12; 2388.3; 26-SEP-2008 06:27:48; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34371
13; 2969.9; 26-SEP-2008 06:37:29; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34371
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4; -295.9; 26-SEP-2008 07:23:39; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34371
5; -204.3; 26-SEP-2008 07:25:11; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;34371
6; -87.1; 26-SEP-2008 07:27:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34371
7; 40.9; 26-SEP-2008 07:29:16; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34372
8; 866.4; 26-SEP-2008 07:43:02; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34372
9; 1122.6; 26-SEP-2008 07:47:18; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34372
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3; 2969.6; 26-SEP-2008 08:18:05; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34372
4; 3058.5; 26-SEP-2008 08:19:34; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34372
5; 4585.4; 26-SEP-2008 08:45:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34372
6; 5105.3; 26-SEP-2008 08:53:41; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34372
7; 5539.0; 26-SEP-2008 09:00:54; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;34372
8; 5740.9; 26-SEP-2008 09:04:16; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34372
9; 5832.8; 26-SEP-2008 09:05:48; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34372
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12; 6903.2; 26-SEP-2008 09:23:39; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;34372
13; 7158.8; 26-SEP-2008 09:27:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34372
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3; 2969.2; 26-SEP-2008 09:58:40; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34373
4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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11; 6078.1; 26-SEP-2008 10:50:29; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;34373
12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
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3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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6; 5540.4; 26-SEP-2008 12:22:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34374
7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
8; 5835.0; 26-SEP-2008 12:27:02; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34374
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12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
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4; 3057.2; 26-SEP-2008 13:21:20; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34375
5; 4586.1; 26-SEP-2008 13:46:49; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34375
6; 5541.2; 26-SEP-2008 14:02:44; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34375
7; 5743.8; 26-SEP-2008 14:06:07; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34375
8; 5836.1; 26-SEP-2008 14:07:39; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34375
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11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
12; 7159.8; 26-SEP-2008 14:29:43; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
7; 5541.9; 26-SEP-2008 15:43:21; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34376
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5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
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9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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2; 2166.6; 27-SEP-2008 15:56:05; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34391
3; 2387.1; 27-SEP-2008 15:59:45; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34391
4; 2963.7; 27-SEP-2008 16:09:22; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;34391
5; 3050.2; 27-SEP-2008 16:10:48; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34391
6; 3429.3; 27-SEP-2008 16:17:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34391
7; 3900.3; 27-SEP-2008 16:24:58; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;34391
8; 3989.6; 27-SEP-2008 16:26:28; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;34391
9; 4579.4; 27-SEP-2008 16:36:17; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;34391
10; 5145.4; 27-SEP-2008 16:45:43; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;34391
11; 5552.9; 27-SEP-2008 16:52:31; Dark ; 47.5; 132; 15Rho Pup ; 2.80; 6900;occ; 95; 0;34391
12; 5726.5; 27-SEP-2008 16:55:24; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;34391
13; 5874.3; 27-SEP-2008 16:57:52; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;34391
14; 5962.8; 27-SEP-2008 16:59:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34391
15; 6091.1; 27-SEP-2008 17:01:29; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34391
16; 6751.0; 27-SEP-2008 17:12:29; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34391
17; 6838.5; 27-SEP-2008 17:13:56; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34391
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2; 1551.6; 27-SEP-2008 17:26:26; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;34392
3; 2166.6; 27-SEP-2008 17:36:41; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;34392
4; 2387.0; 27-SEP-2008 17:40:21; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34392
5; 2963.4; 27-SEP-2008 17:49:57; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34392
6; 3049.8; 27-SEP-2008 17:51:24; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34392
7; 3429.2; 27-SEP-2008 17:57:43; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34392
8; 3900.4; 27-SEP-2008 18:05:34; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;34392
9; 3990.1; 27-SEP-2008 18:07:04; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34392
10; 4579.6; 27-SEP-2008 18:16:54; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;34392
11; 5145.7; 27-SEP-2008 18:26:20; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;34392
12; 5553.6; 27-SEP-2008 18:33:08; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;34392
13; 5726.8; 27-SEP-2008 18:36:01; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;34392
14; 5874.6; 27-SEP-2008 18:38:29; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;34392
15; 5963.5; 27-SEP-2008 18:39:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34392
16; 6091.8; 27-SEP-2008 18:42:06; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;34392
17; 6751.4; 27-SEP-2008 18:53:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34392
18; 6838.9; 27-SEP-2008 18:54:33; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34392
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2; 1551.7; 27-SEP-2008 19:07:02; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;34393
3; 2166.6; 27-SEP-2008 19:17:17; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34393
4; 2387.0; 27-SEP-2008 19:20:57; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34393
5; 2963.0; 27-SEP-2008 19:30:33; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34393
6; 3049.3; 27-SEP-2008 19:31:59; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34393
7; 3429.1; 27-SEP-2008 19:38:19; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34393
8; 3900.5; 27-SEP-2008 19:46:10; Bright; 33.0; 36; 50Alp UMa ; 1.80; 6300;occ; 66; 0;34393

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9; 3989.8; 27-SEP-2008 19:47:40; Bright; 34.0; 82; 48Bet UMA ; 2.37; 10600;occ; 68; 0;34393  
 10; 4579.6; 27-SEP-2008 19:57:30; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;34393  
 11; 5146.0; 27-SEP-2008 20:06:56; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;34393  
 12; 5554.3; 27-SEP-2008 20:13:44; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34393  
 13; 5727.0; 27-SEP-2008 20:16:37; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;34393  
 14; 5875.1; 27-SEP-2008 20:19:05; Dark ; 37.5; 34; Gam2Vel ; 1.79; 23000;occ; 75; 0;34393  
 15; 5964.2; 27-SEP-2008 20:20:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34393  
 16; 6092.4; 27-SEP-2008 20:22:42; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34393  
 17; 6751.7; 27-SEP-2008 20:33:42; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34393  
 18; 6839.2; 27-SEP-2008 20:35:09; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34393

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1; -479.5; 28-SEP-2008 01:15:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;34396  
 2; -307.9; 28-SEP-2008 01:18:26; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;34396  
 3; -159.5; 28-SEP-2008 01:20:54; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;34396  
 4; -69.7; 28-SEP-2008 01:22:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34396  
 5; 58.6; 28-SEP-2008 01:24:32; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34397  
 6; 716.9; 28-SEP-2008 01:35:30; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34397  
 7; 804.5; 28-SEP-2008 01:36:58; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34397  
 8; 1130.2; 28-SEP-2008 01:42:24; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34397  
 9; 1552.3; 28-SEP-2008 01:49:26; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;34397  
 10; 2166.4; 28-SEP-2008 01:59:40; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34397  
 11; 2386.8; 28-SEP-2008 02:03:20; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34397  
 12; 2961.9; 28-SEP-2008 02:12:55; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34397  
 13; 3047.6; 28-SEP-2008 02:14:21; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;34397  
 14; 3429.1; 28-SEP-2008 02:20:43; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;34397  
 15; 3900.9; 28-SEP-2008 02:28:34; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;34397

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1; -2127.5; 28-SEP-2008 02:28:42; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 15;34397  
 2; -2045.4; 28-SEP-2008 02:30:04; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;34397  
 3; -1455.5; 28-SEP-2008 02:39:54; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;34397  
 4; -888.6; 28-SEP-2008 02:49:21; Dark ; 42.5; 48; 30Alp Hya ; 1.98; 4100;occ; 85; 0;34397  
 5; -478.6; 28-SEP-2008 02:56:11; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;34397  
 6; -307.5; 28-SEP-2008 02:59:02; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;34397  
 7; -158.8; 28-SEP-2008 03:01:31; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;34397  
 8; -69.0; 28-SEP-2008 03:03:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34397  
 9; 59.3; 28-SEP-2008 03:05:09; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34398  
 10; 717.4; 28-SEP-2008 03:16:07; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34398  
 11; 805.0; 28-SEP-2008 03:17:34; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34398  
 12; 1130.6; 28-SEP-2008 03:23:00; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;34398  
 13; 1552.5; 28-SEP-2008 03:30:02; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34398  
 14; 2166.7; 28-SEP-2008 03:40:16; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34398  
 15; 2386.9; 28-SEP-2008 03:43:56; Bright; 48.0; 93; 53Bet Peg ; 2.52; 3100;occ; 96; 0;34398  
 16; 2961.6; 28-SEP-2008 03:53:31; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;34398  
 17; 3047.2; 28-SEP-2008 03:54:57; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;34398  
 18; 3429.2; 28-SEP-2008 04:01:19; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;34398

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 3; -1455.2; 28-SEP-2008 04:20:30; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;34398  
 4; -888.2; 28-SEP-2008 04:29:57; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;34398  
 5; -477.9; 28-SEP-2008 04:36:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;34398  
 6; -307.2; 28-SEP-2008 04:39:38; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;34398  
 7; -158.2; 28-SEP-2008 04:42:07; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;34398  
 8; -68.2; 28-SEP-2008 04:43:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34398  
 9; 717.8; 28-SEP-2008 04:56:43; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34399  
 10; 805.4; 28-SEP-2008 04:58:11; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;34399  
 11; 1130.8; 28-SEP-2008 05:03:36; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;34399  
 12; 1552.7; 28-SEP-2008 05:10:38; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34399  
 13; 2166.7; 28-SEP-2008 05:20:52; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34399  
 14; 2386.9; 28-SEP-2008 05:24:32; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34399  
 15; 2961.4; 28-SEP-2008 05:34:07; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34399  
 16; 3046.8; 28-SEP-2008 05:35:32; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34399  
 17; 3429.2; 28-SEP-2008 05:41:55; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34399

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 3; -1455.0; 28-SEP-2008 06:01:06; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;34399  
 4; -887.9; 28-SEP-2008 06:10:34; Dark ; 42.0; 48; 30Alp Hya ; 1.98; 4100;occ; 84; 0;34399

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5; -477.3; 28-SEP-2008 06:17:24; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;34399
6; -306.9; 28-SEP-2008 06:20:15; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;34399
7; -157.7; 28-SEP-2008 06:22:44; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;34399
8; -67.5; 28-SEP-2008 06:24:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34399
9; 60.7; 28-SEP-2008 06:26:22; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;34400
10; 144.8; 28-SEP-2008 06:27:46; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;34400
11; 718.2; 28-SEP-2008 06:37:20; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34400
12; 805.8; 28-SEP-2008 06:38:47; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34400
13; 1131.1; 28-SEP-2008 06:44:13; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34400
14; 1552.8; 28-SEP-2008 06:51:14; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;34400
15; 2166.7; 28-SEP-2008 07:01:28; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34400
16; 2386.8; 28-SEP-2008 07:05:08; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;34400
17; 2961.0; 28-SEP-2008 07:14:42; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34400
18; 3046.3; 28-SEP-2008 07:16:08; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34400
19; 3429.1; 28-SEP-2008 07:22:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34400
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2; 1553.9; 28-SEP-2008 20:16:03; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34408
3; 2167.0; 28-SEP-2008 20:26:16; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34408
4; 2386.5; 28-SEP-2008 20:29:56; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34408
5; 2958.8; 28-SEP-2008 20:39:28; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34408
6; 3043.1; 28-SEP-2008 20:40:52; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34408
7; 3429.0; 28-SEP-2008 20:47:18; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34408
8; 3902.4; 28-SEP-2008 20:55:11; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;34408
9; 3992.1; 28-SEP-2008 20:56:41; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;34408
10; 4582.7; 28-SEP-2008 21:06:32; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;34408
11; 5151.4; 28-SEP-2008 21:16:00; Dark ; 43.0; 48; 30Alp Hya ; 1.98; 4100;occ; 86; 0;34408
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3; -153.0; 28-SEP-2008 21:28:12; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;34408
4; -61.1; 28-SEP-2008 21:29:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34408
5; 67.3; 28-SEP-2008 21:31:52; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34409
6; 151.3; 28-SEP-2008 21:33:16; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;34409
7; 721.8; 28-SEP-2008 21:42:47; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34409
8; 809.4; 28-SEP-2008 21:44:14; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34409
9; 1133.8; 28-SEP-2008 21:49:39; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34409
10; 1554.0; 28-SEP-2008 21:56:39; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34409
11; 2166.8; 28-SEP-2008 22:06:52; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34409
12; 2386.5; 28-SEP-2008 22:10:31; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34409
13; 2958.4; 28-SEP-2008 22:20:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34409
14; 3042.7; 28-SEP-2008 22:21:28; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;34409
15; 3428.9; 28-SEP-2008 22:27:54; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34409
16; 3902.5; 28-SEP-2008 22:35:47; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;34409
17; 3992.3; 28-SEP-2008 22:37:17; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;34409
18; 4582.8; 28-SEP-2008 22:47:08; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;34409
19; 5151.7; 28-SEP-2008 22:56:37; Dark ; 46.5; 48; 30Alp Hya ; 1.98; 4100;occ; 93; 0;34409
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12; 811.0; 29-SEP-2008 04:26:39; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;34413
13; 1135.0; 29-SEP-2008 04:32:04; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34413
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