

# GOMOS Daily Report 02-SEP-2008

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [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	04SEP2008 05:32:18
Data source version	GOMOS/5.00
Start time of products	02SEP2008 00:09:09
Stop time of products	02SEP2008 04:02:52
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)

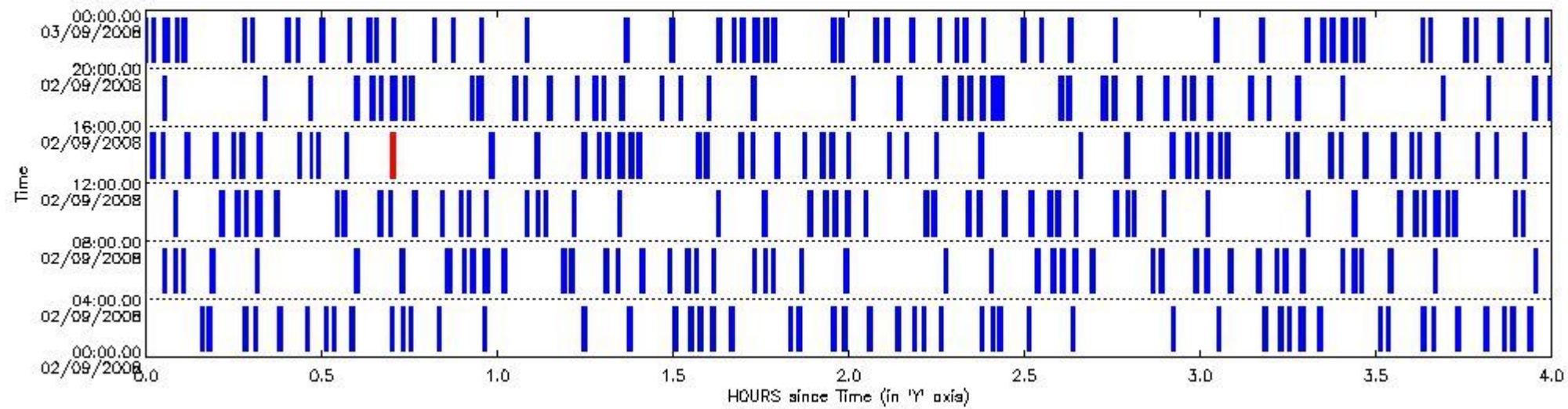
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

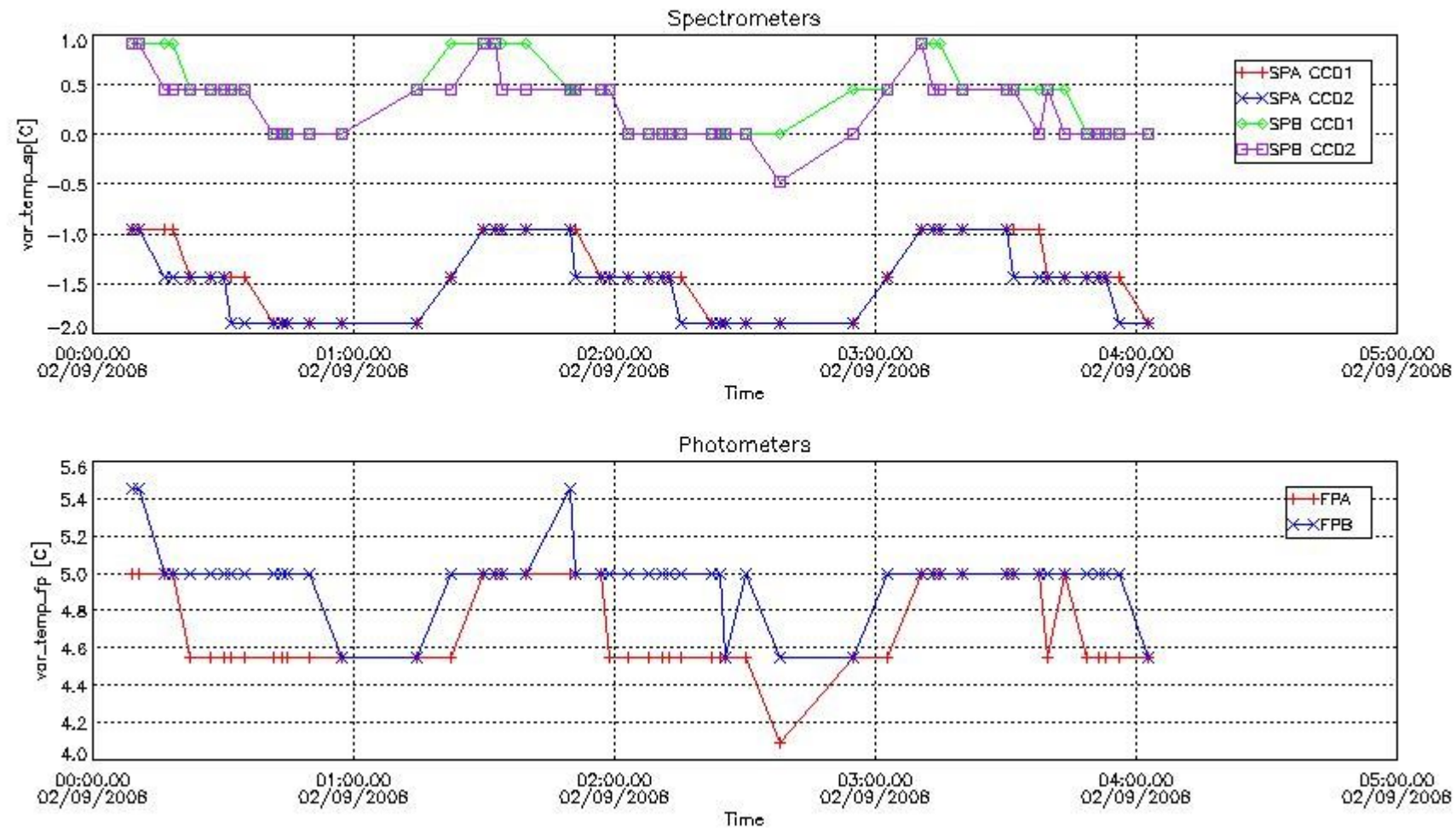
UTC start time	Star name	Star ID	Orbit
02-SEP-2008 12:41:38	1AlpUMi	49	34031

### 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_1PNPDE20080902_000909_000000402071_00403_34024_7308.N1	02-SEP-2008 00:09:09	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	34024	No
2	GOM_TRA_1PNPDE20080902_001027_000000462071_00403_34024_7309.N1	02-SEP-2008 00:10:27	Dark	45.500	9	Alp Eri	0.45300	24000.	91	34024	No
3	GOM_TRA_1PNPDE20080902_001624_000000482071_00403_34024_7310.N1	02-SEP-2008 00:16:24	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	34024	No
4	GOM_TRA_1PNPDE20080902_001821_000000392071_00403_34024_7311.N1	02-SEP-2008 00:18:21	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	34024	No
5	GOM_TRA_1PNPDE20080902_002226_000000472071_00403_34024_7312.N1	02-SEP-2008 00:22:26	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	34024	No
6	GOM_TRA_1PNPDE20080902_002713_000000392071_00403_34024_7313.N1	02-SEP-2008 00:27:13	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	34024	No
7	GOM_TRA_1PNPDE20080902_003021_000000382071_00403_34024_7314.N1	02-SEP-2008 00:30:21	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	34024	No
8	GOM_TRA_1PNPDE20080902_003147_000000392071_00403_34024_7315.N1	02-SEP-2008 00:31:47	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	34024	No
9	GOM_TRA_1PNPDE20080902_003446_000000392071_00403_34024_7316.N1	02-SEP-2008 00:34:46	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	34024	No
10	GOM_TRA_1PNPDE20080902_004140_000000342071_00403_34024_7317.N1	02-SEP-2008 00:41:40	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	34024	No

11	GOM_TRA_1PNPDE20080902_004334_000000332071_00403_34024_7318.N1	02-SEP-2008 00:43:34	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	34024	No
12	GOM_TRA_1PNPDE20080902_004450_000000362071_00403_34024_7319.N1	02-SEP-2008 00:44:50	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	34024	No
13	GOM_TRA_1PNPDE20080902_004946_000000362071_00403_34024_7320.N1	02-SEP-2008 00:49:46	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	34024	No
14	GOM_TRA_1PNPDE20080902_005726_000000332071_00403_34024_7321.N1	02-SEP-2008 00:57:26	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34024	No
15	GOM_TRA_1PNPDE20080902_011426_000000382071_00403_34024_7322.N1	02-SEP-2008 01:14:26	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	34024	No
16	GOM_TRA_1PNPDE20080902_012212_000000402071_00403_34024_7323.N1	02-SEP-2008 01:22:12	Twilight	39.500	8	10Alp CMi	0.40000	6500.0	79	34024	No
17	GOM_TRA_1PNPDE20080902_012957_000000482071_00403_34024_7449.N1	02-SEP-2008 01:29:57	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	34024	No
18	GOM_TRA_1PNPDE20080902_013241_000000442071_00403_34024_7450.N1	02-SEP-2008 01:32:41	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	34024	No
19	GOM_TRA_1PNPDE20080902_013414_000000442071_00403_34024_7451.N1	02-SEP-2008 01:34:14	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	34024	No
20	GOM_TRA_1PNPDE20080902_013924_000000542071_00403_34024_7452.N1	02-SEP-2008 01:39:24	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	34024	No
21	GOM_TRA_1PNPDE20080902_014945_000000382071_00404_34025_7453.N1	02-SEP-2008 01:49:45	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34025	No
22	GOM_TRA_1PNPDE20080902_015103_000000522071_00404_34025_7454.N1	02-SEP-2008 01:51:03	Dark	52.000	9	Alp Eri	0.45300	24000.	104	34025	No
23	GOM_TRA_1PNPDE20080902_015700_000000482071_00404_34025_7455.N1	02-SEP-2008 01:57:00	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	34025	No
24	GOM_TRA_1PNPDE20080902_015857_000000382071_00404_34025_7456.N1	02-SEP-2008 01:58:57	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	34025	No
25	GOM_TRA_1PNPDE20080902_020302_000000462071_00404_34025_7457.N1	02-SEP-2008 02:03:02	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	34025	No
26	GOM_TRA_1PNPDE20080902_020749_000000492071_00404_34025_7458.N1	02-SEP-2008 02:07:49	Bright	48.500	142	49Del Cap	2.8500	8900.0	97	34025	No
27	GOM_TRA_1PNPDE20080902_021057_000000372071_00404_34025_7459.N1	02-SEP-2008 02:10:57	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	34025	No
28	GOM_TRA_1PNPDE20080902_021223_000000402071_00404_34025_7460.N1	02-SEP-2008 02:12:23	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	34025	No
29	GOM_TRA_1PNPDE20080902_021522_000000392071_00404_34025_7461.N1	02-SEP-2008 02:15:22	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	34025	No
30	GOM_TRA_1PNPDE20080902_022216_000000362071_00404_34025_7462.N1	02-SEP-2008 02:22:16	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	34025	No
31	GOM_TRA_1PNPDE20080902_022410_000000372071_00404_34025_7463.N1	02-SEP-2008 02:24:10	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	34025	No
32	GOM_TRA_1PNPDE20080902_022526_000000382071_00404_34025_7464.N1	02-SEP-2008 02:25:26	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	34025	No
33	GOM_TRA_1PNPDE20080902_023021_000000362071_00404_34025_7465.N1	02-SEP-2008 02:30:21	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	34025	No
34	GOM_TRA_1PNPDE20080902_023802_000000322071_00404_34025_7466.N1	02-SEP-2008 02:38:02	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	34025	No
35	GOM_TRA_1PNPDE20080902_025502_000000372071_00404_34025_7608.N1	02-SEP-2008 02:55:02	Bright	36.500	24	66Alp Gem	1.5800	10200.	73	34025	No
36	GOM_TRA_1PNPDE20080902_030249_000000412071_00404_34025_7609.N1	02-SEP-2008 03:02:49	Twilight	40.500	8	10Alp CMi	0.40000	6500.0	81	34025	No
37	GOM_TRA_1PNPDE20080902_031034_000000582071_00404_34025_7610.N1	02-SEP-2008 03:10:34	Dark	57.500	1	9Alp CMa	-1.4400	11000.	115	34025	No
38	GOM_TRA_1PNPDE20080902_031317_000000442071_00404_34025_7611.N1	02-SEP-2008 03:13:17	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	34025	No
39	GOM_TRA_1PNPDE20080902_031450_000000452071_00404_34025_7612.N1	02-SEP-2008 03:14:50	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	34025	No
40	GOM_TRA_1PNPDE20080902_032001_000000412071_00404_34025_7613.N1	02-SEP-2008 03:20:01	Dark	40.500	2	Alp Car	-0.73600	7000.0	81	34025	No
41	GOM_TRA_1PNPDE20080902_033022_000000392071_00405_34026_7614.N1	02-SEP-2008 03:30:22	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34026	No
42	GOM_TRA_1PNPDE20080902_033140_000000432071_00405_34026_7615.N1	02-SEP-2008 03:31:40	Dark	43.000	9	Alp Eri	0.45300	24000.	86	34026	No
43	GOM_TRA_1PNPDE20080902_033737_000000482071_00405_34026_7616.N1	02-SEP-2008 03:37:37	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	34026	No
44	GOM_TRA_1PNPDE20080902_033933_000000372071_00405_34026_7617.N1	02-SEP-2008 03:39:33	Straylight	37.000	31	Alp Gru	1.7340	15200.	74	34026	No
45	GOM_TRA_1PNPDE20080902_034338_000000452071_00405_34026_7618.N1	02-SEP-2008 03:43:38	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	34026	No
46	GOM_TRA_1PNPDE20080902_034826_000000412071_00405_34026_7619.N1	02-SEP-2008 03:48:26	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	34026	No
47	GOM_TRA_1PNPDE20080902_035133_000000372071_00405_34026_7620.N1	02-SEP-2008 03:51:33	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	34026	No
48	GOM_TRA_1PNPDE20080902_035259_000000392071_00405_34026_7621.N1	02-SEP-2008 03:52:59	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	34026	No
49	GOM_TRA_1PNPDE20080902_035558_000000392071_00405_34026_7622.N1	02-SEP-2008 03:55:58	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	34026	No
50	GOM_TRA_1PNPDE20080902_040252_000000342071_00405_34026_7623.N1	02-SEP-2008 04:02:52	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	34026	No

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



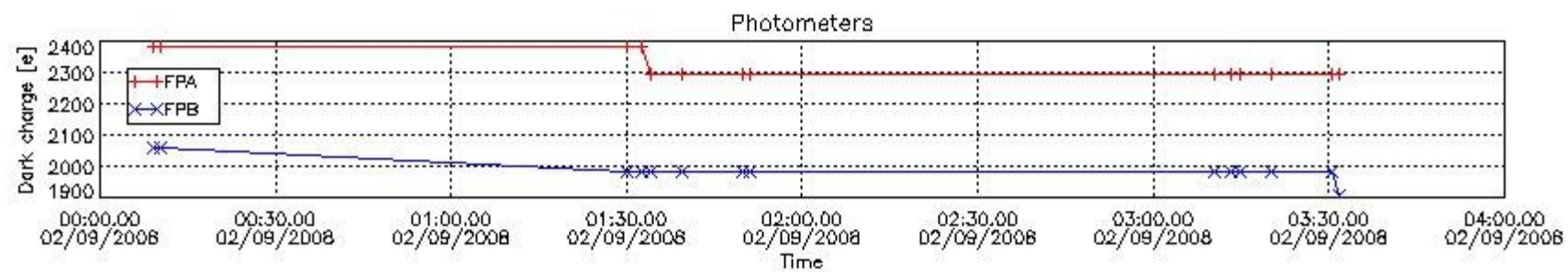
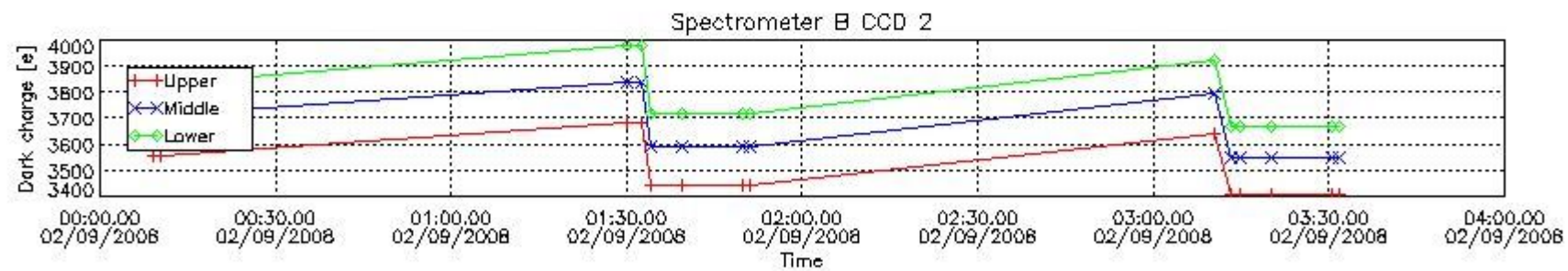
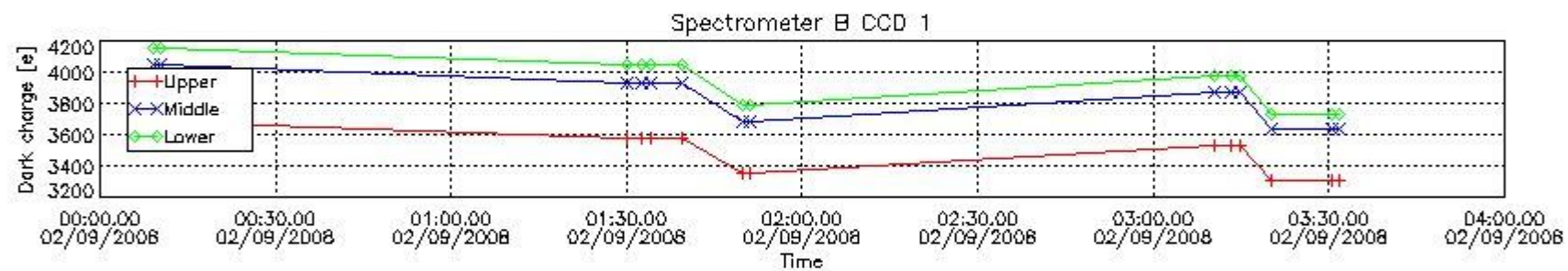
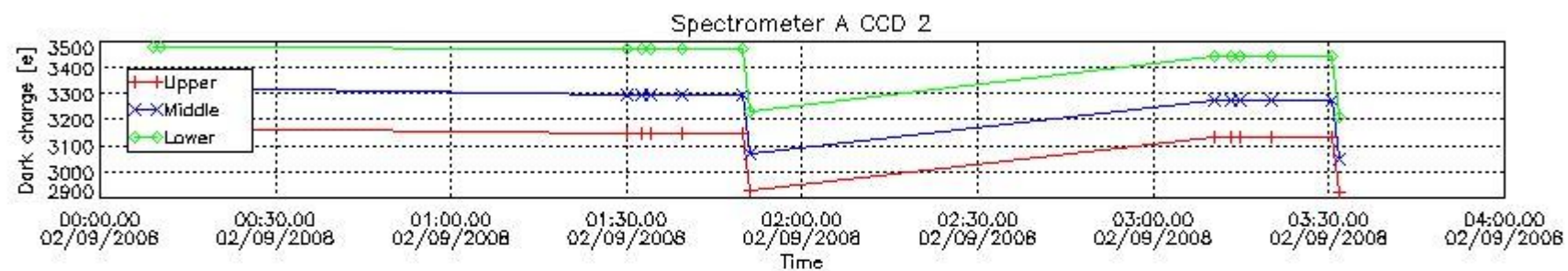
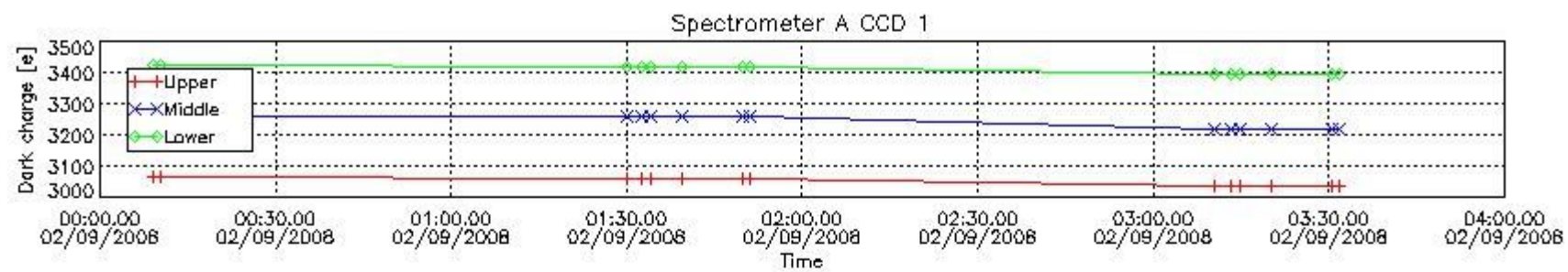
#### 4. Overview of dark signal processing per product

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



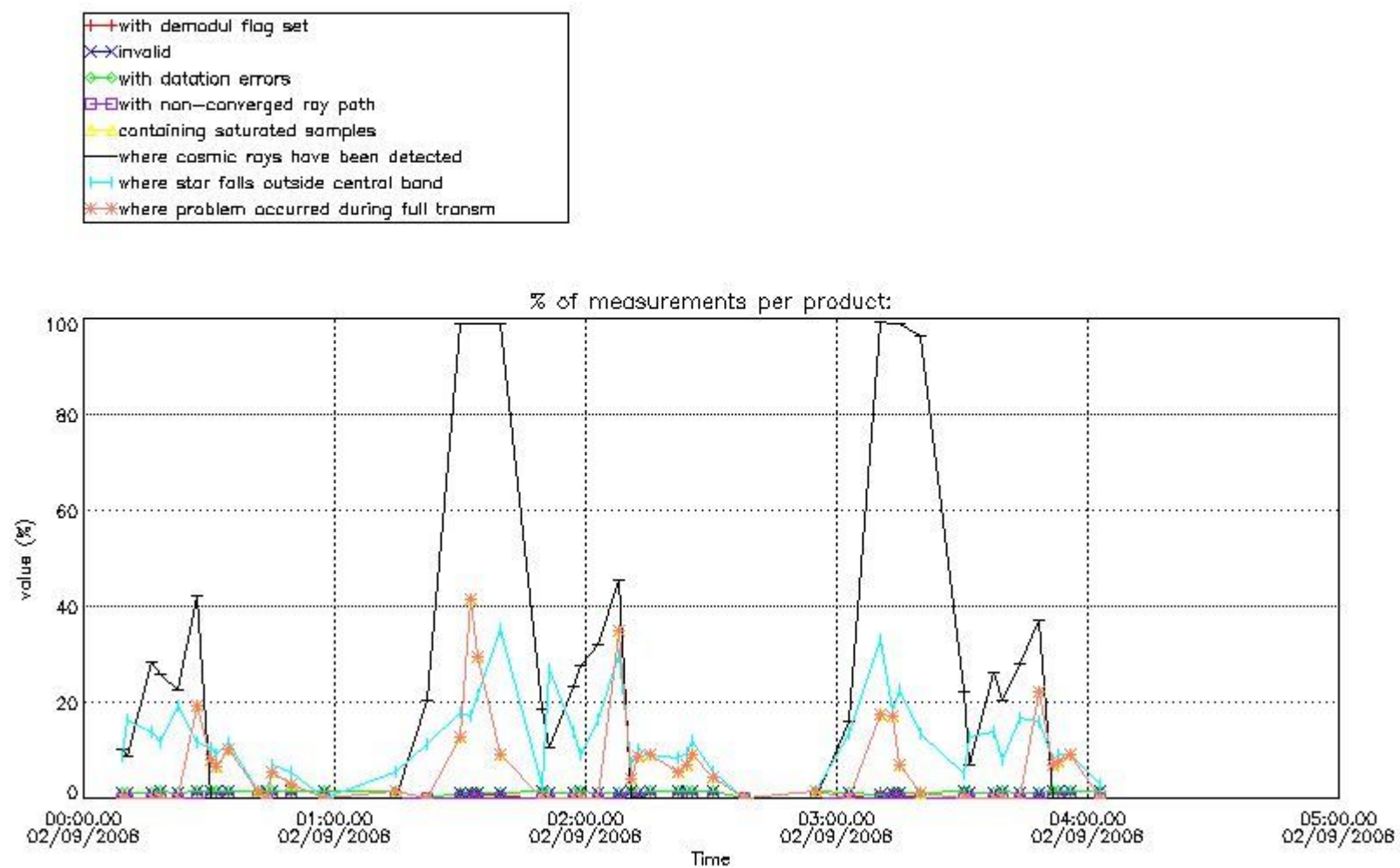
## 5. Demodulation flag and quality information monitoring

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.

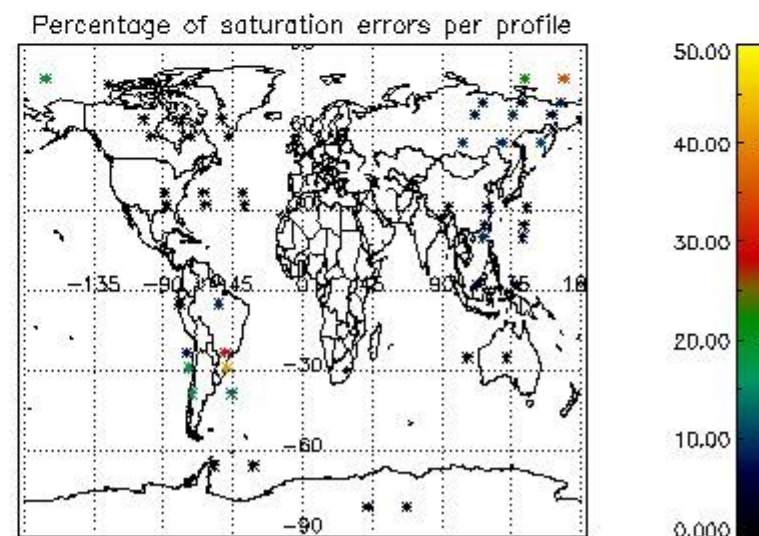
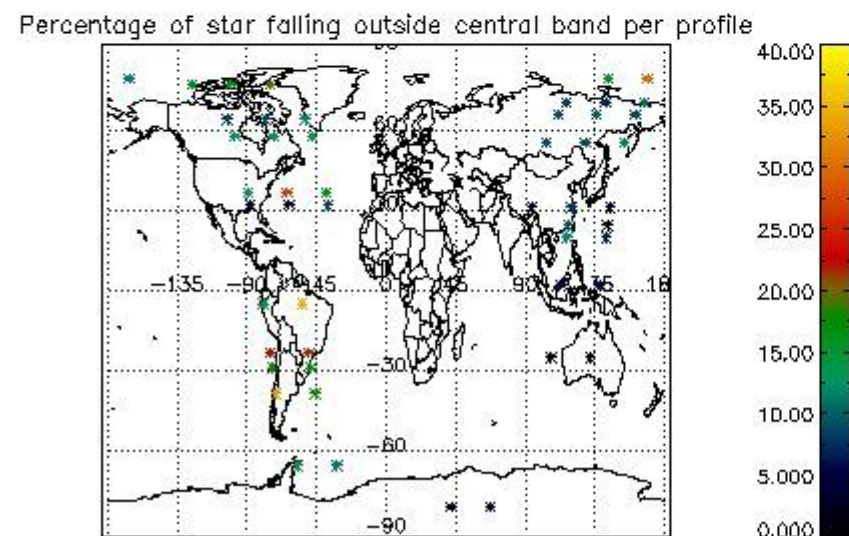
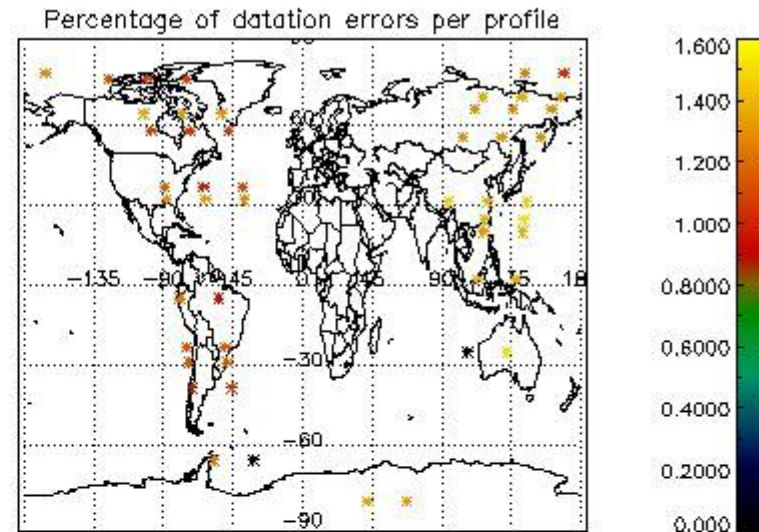
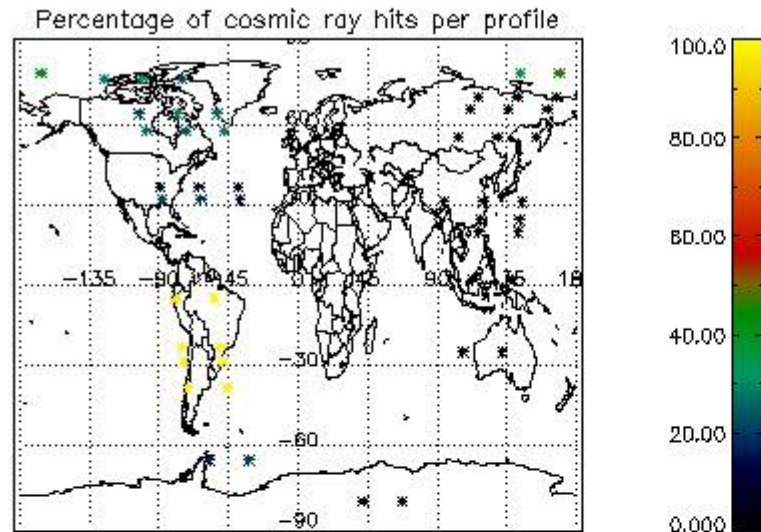
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



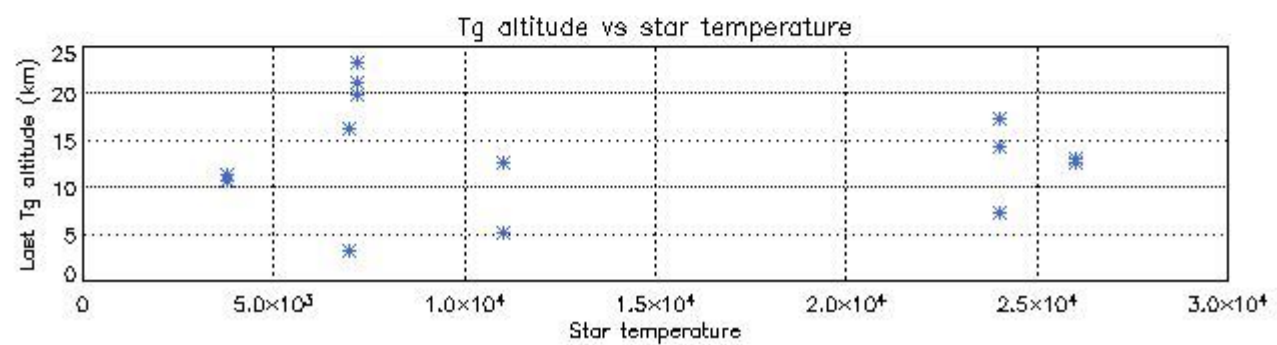
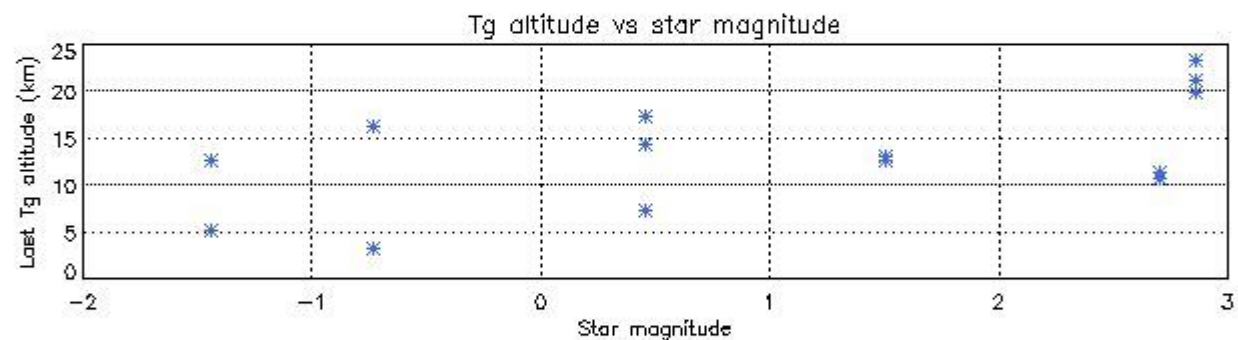
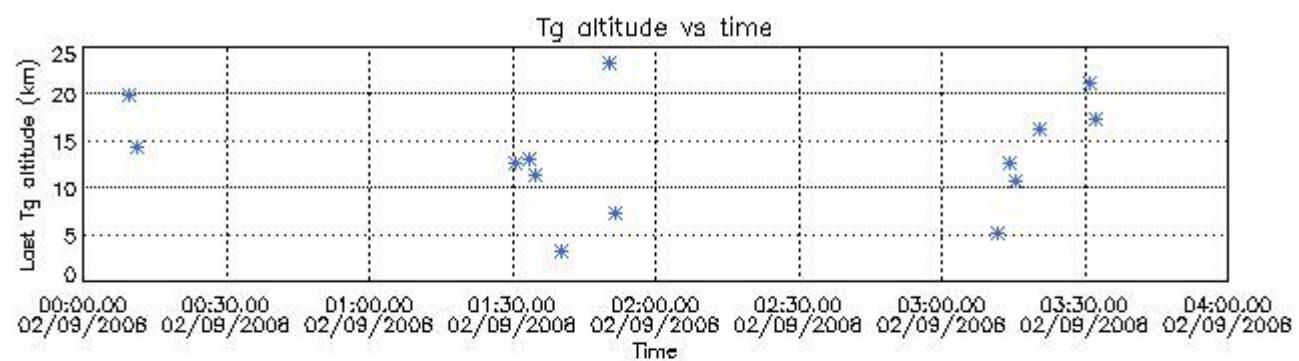
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.409	19.881	16.299
St. deviation:	5.8549	4.6238	0.88994
Maximum:	23.269	30.613	16.928
Minimum:	3.2330	6.9226	15.669
Number of data:	14.000	25.000	2.0000

### 6.2 Plot for DARK limb products

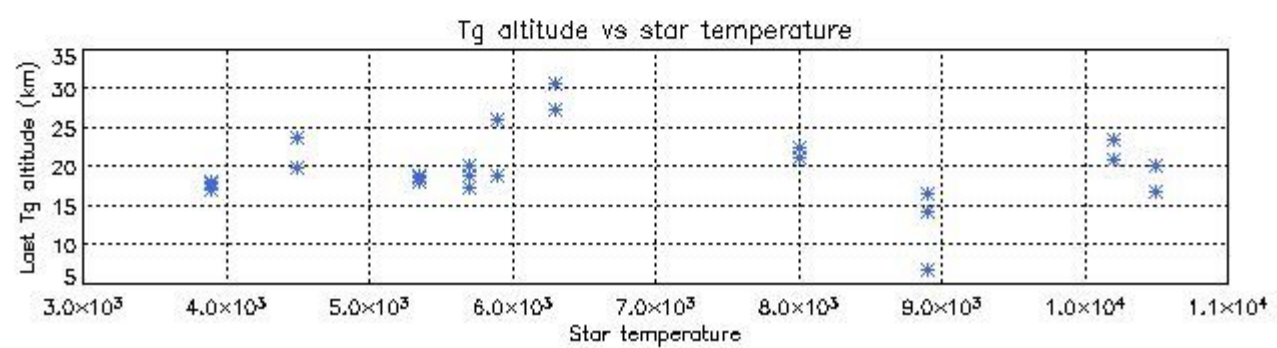
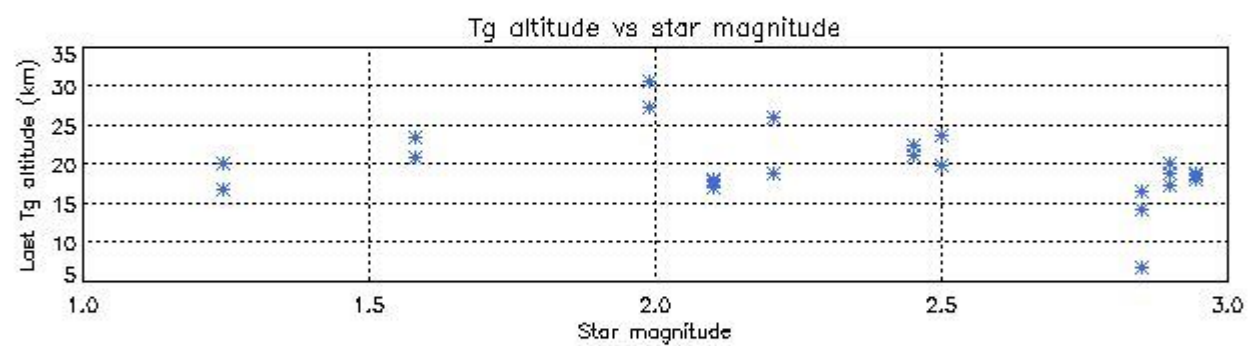
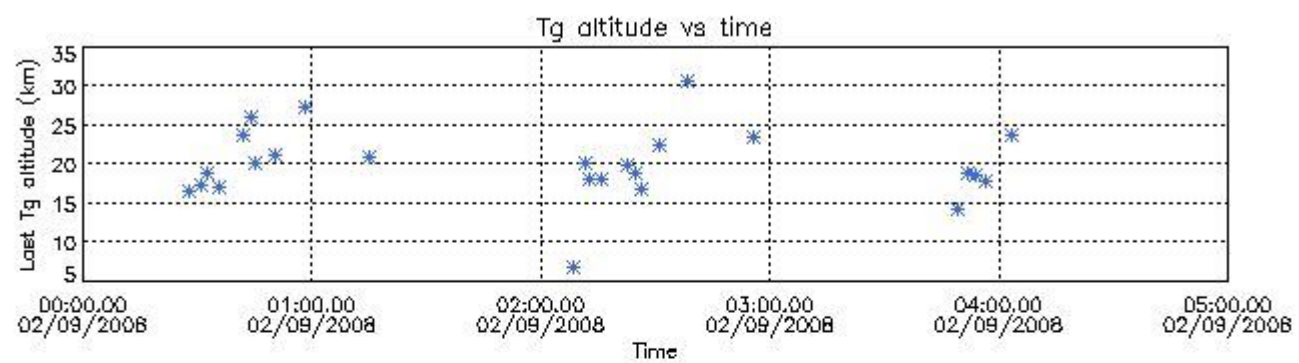
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

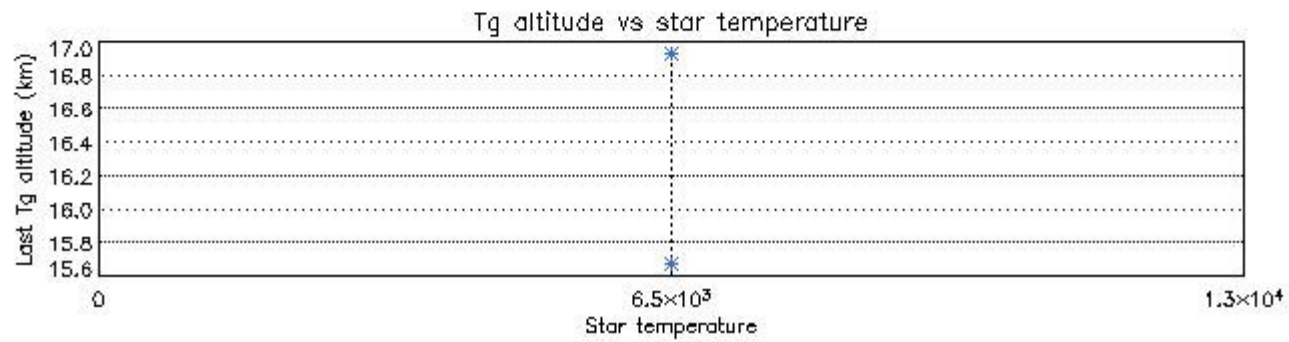
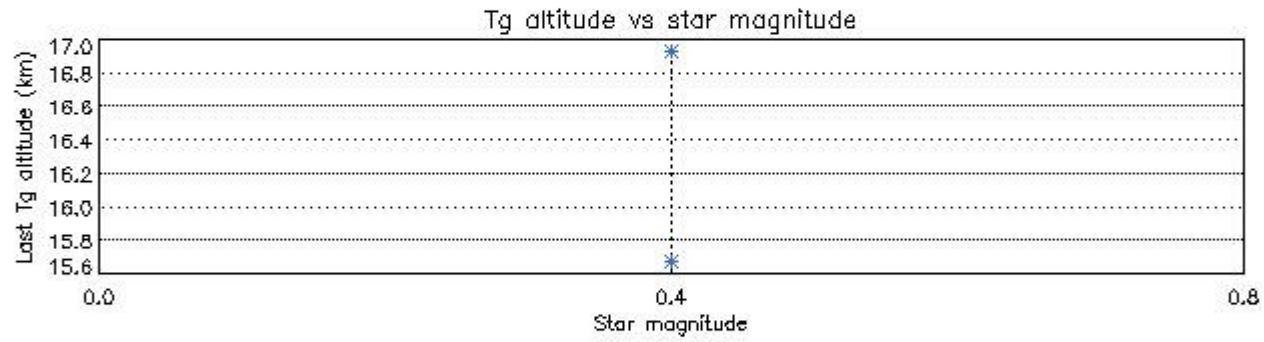
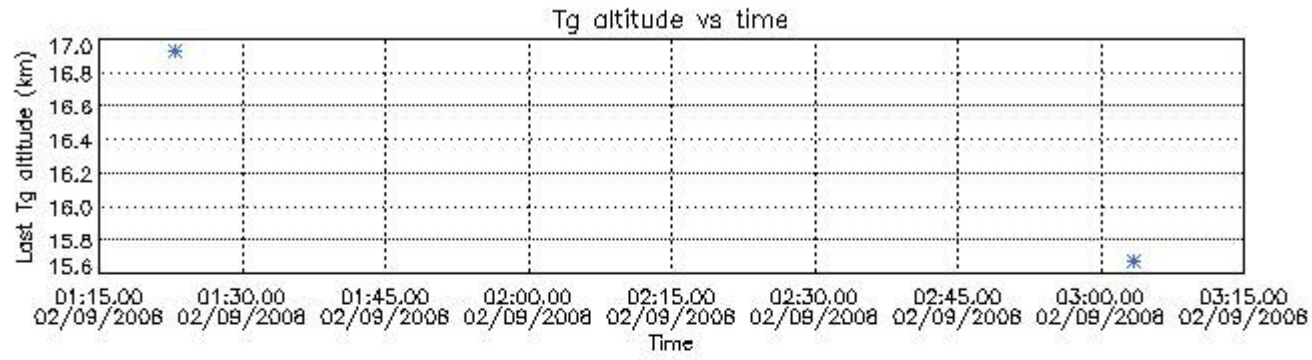


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

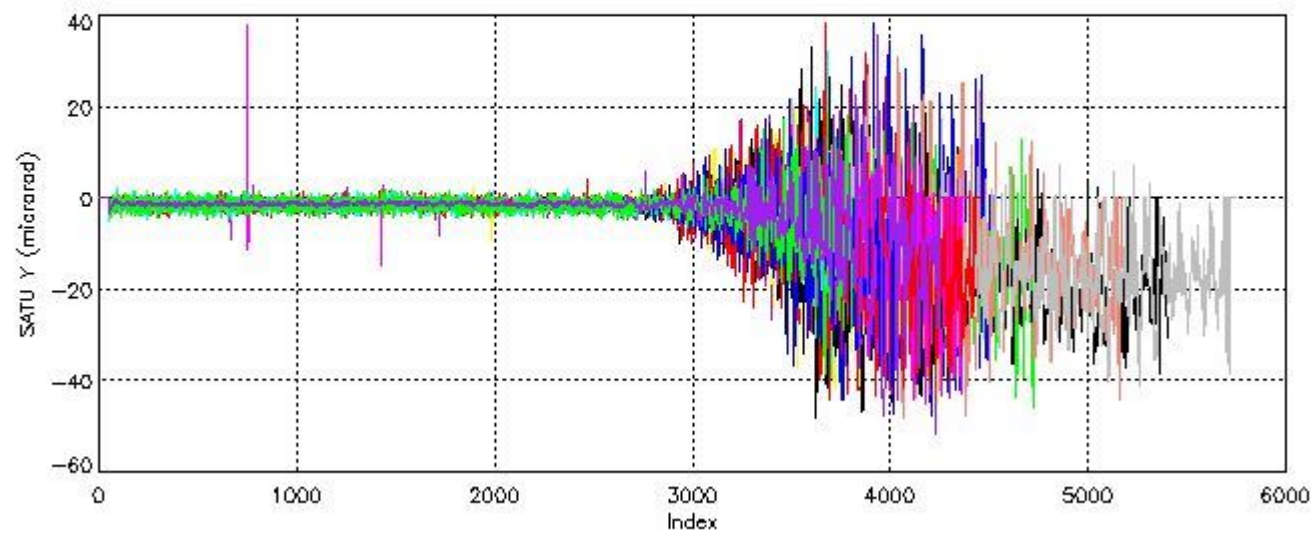
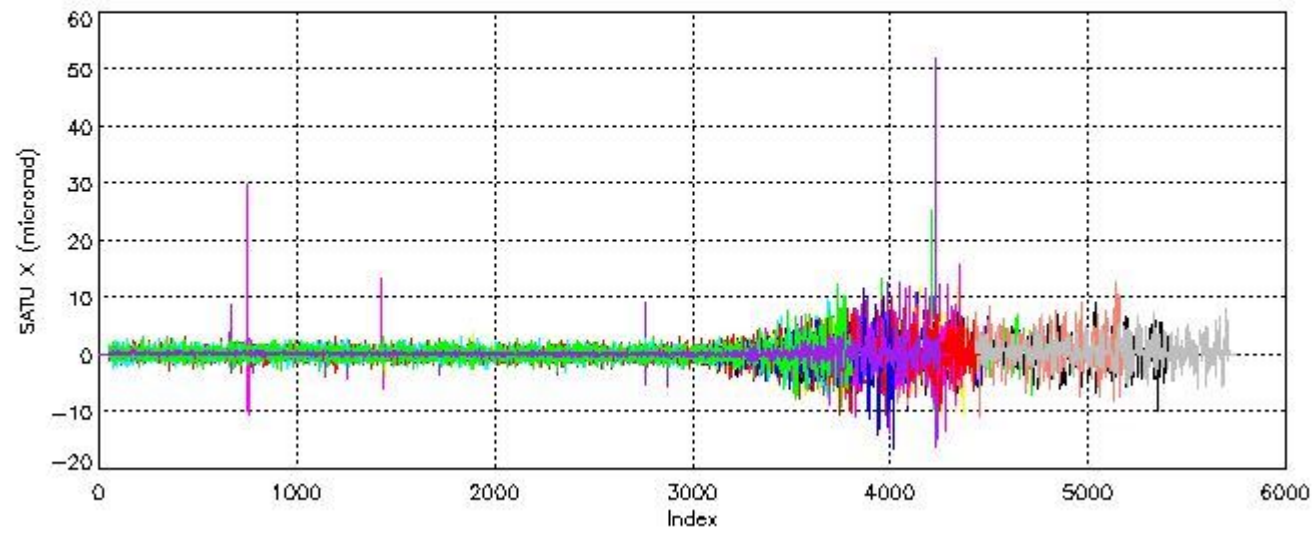


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.11140	-1.3144	0.093970	-1.3950
St. deviation:	0.44261	0.67134	0.63309	0.78399
Maximum:	29.700	37.700	3.6000	2.1000
Minimum:	-10.400	-11.300	-3.2000	-5.3000

Number of data:	12900.	12900.	20650.	20650.
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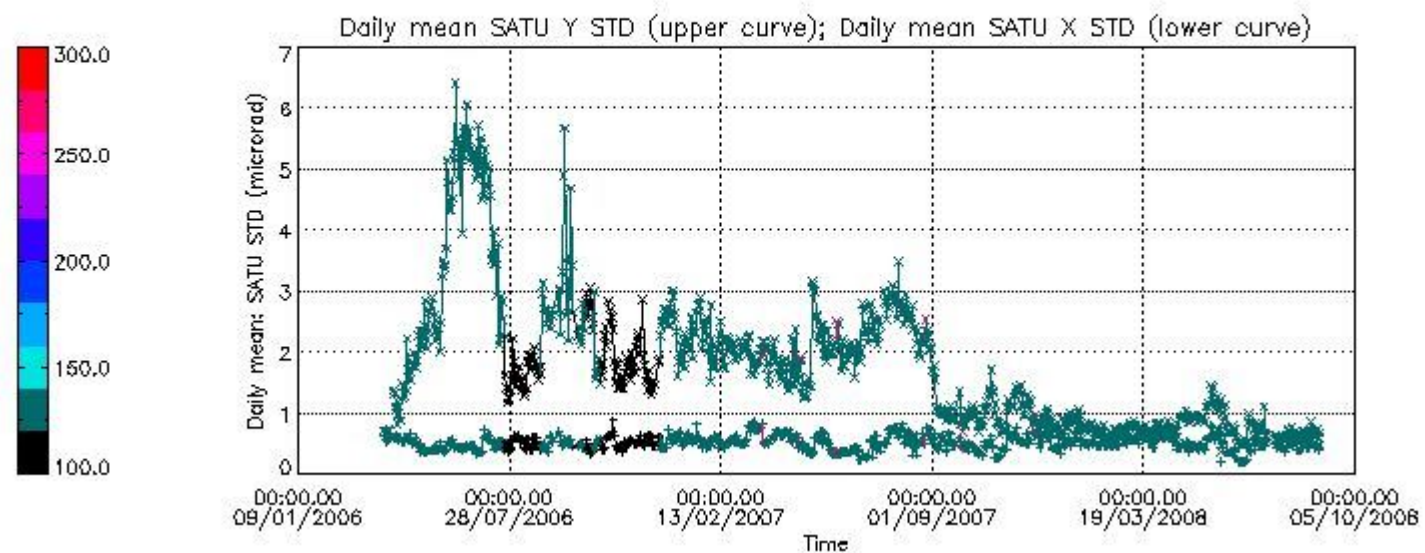
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

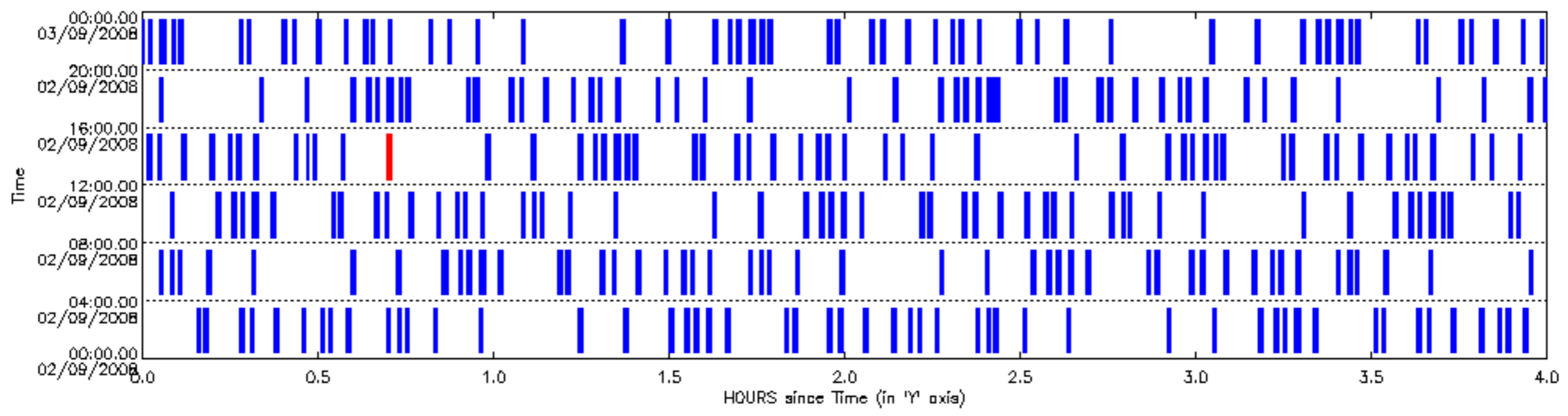
Lower curve: STD of SATU X axis

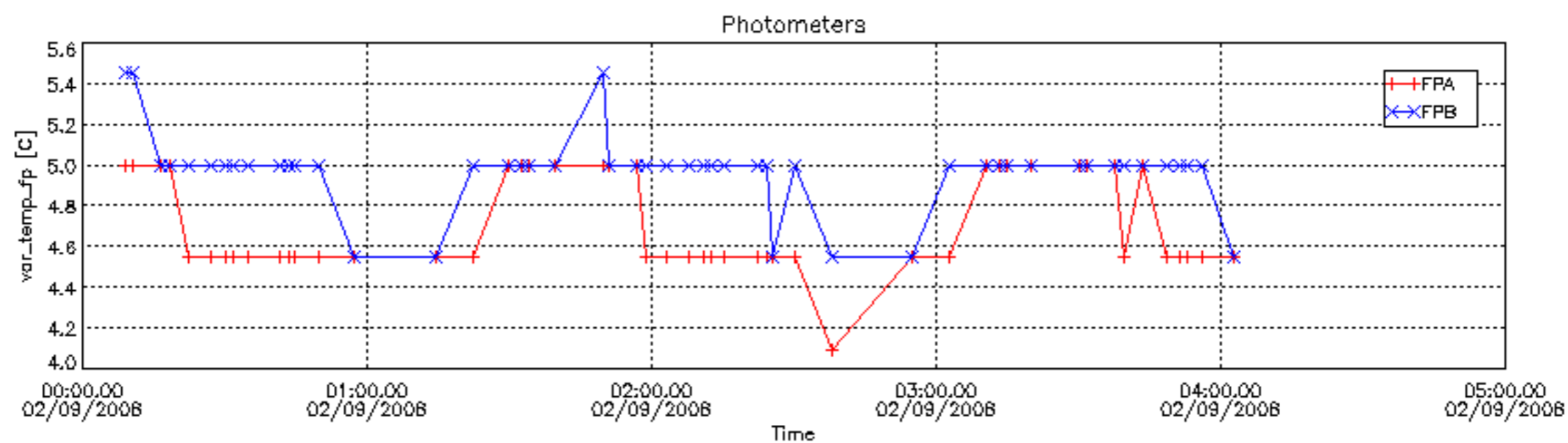
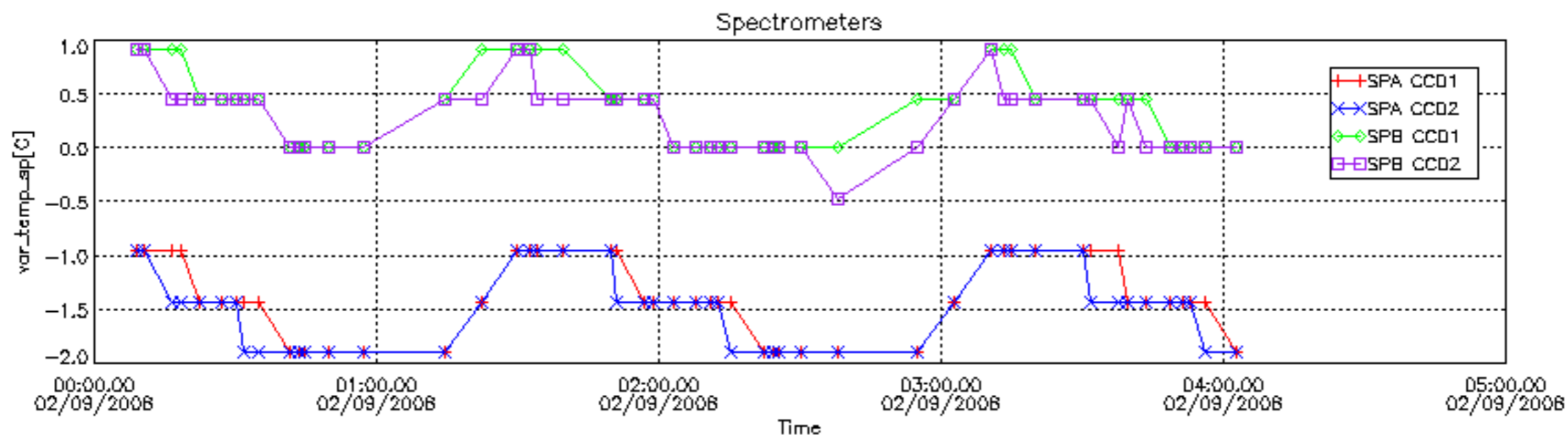


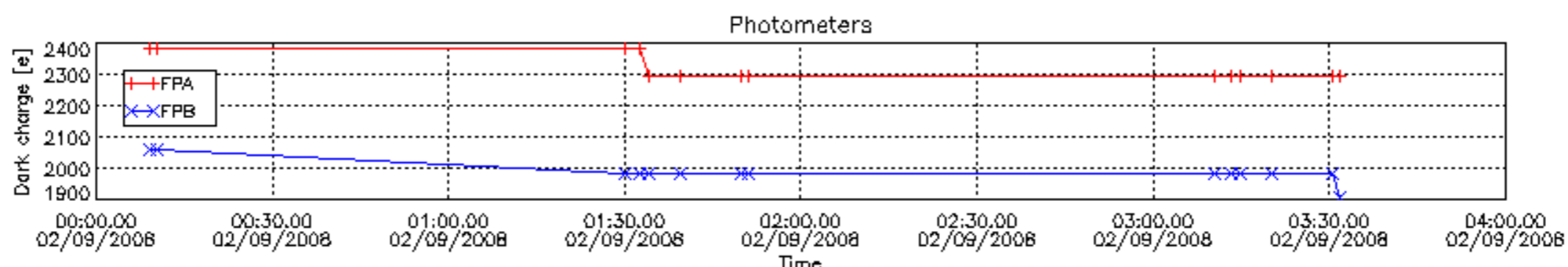
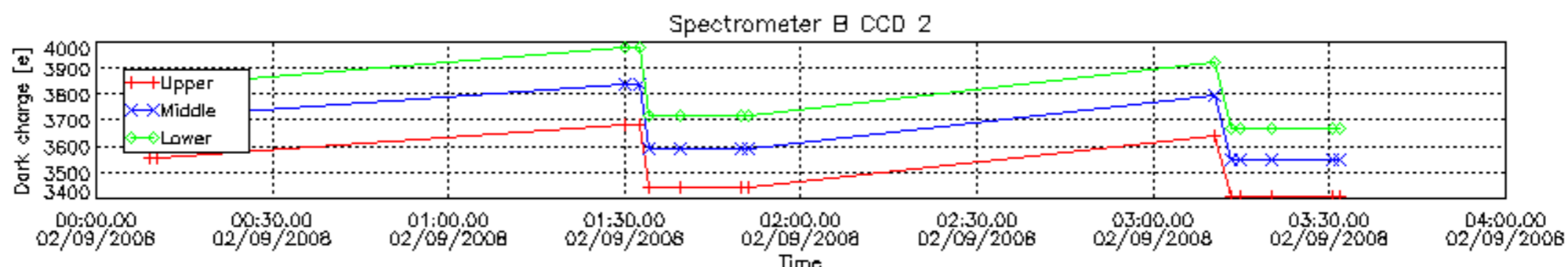
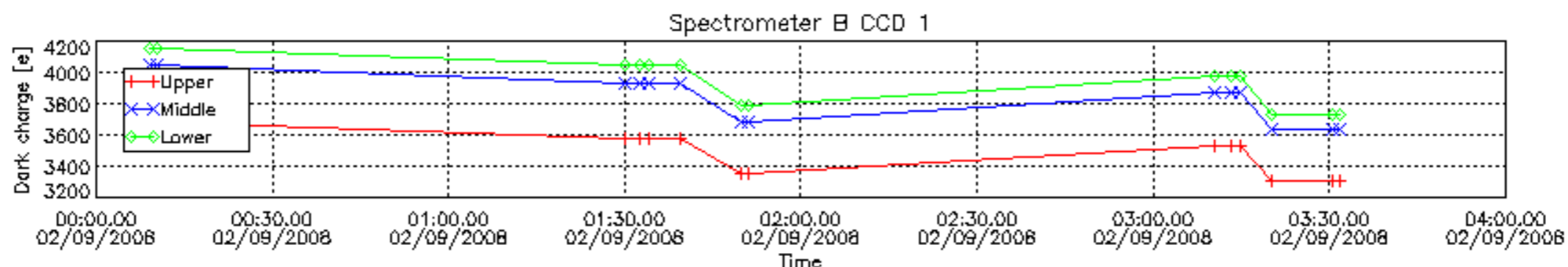
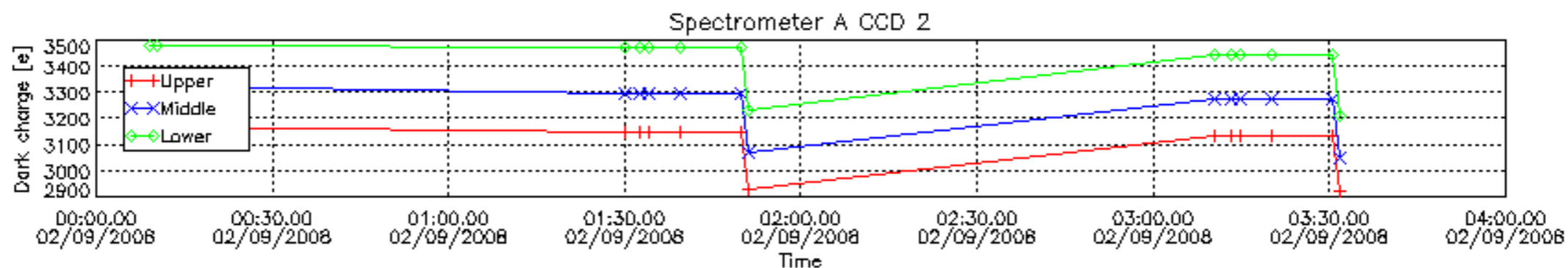
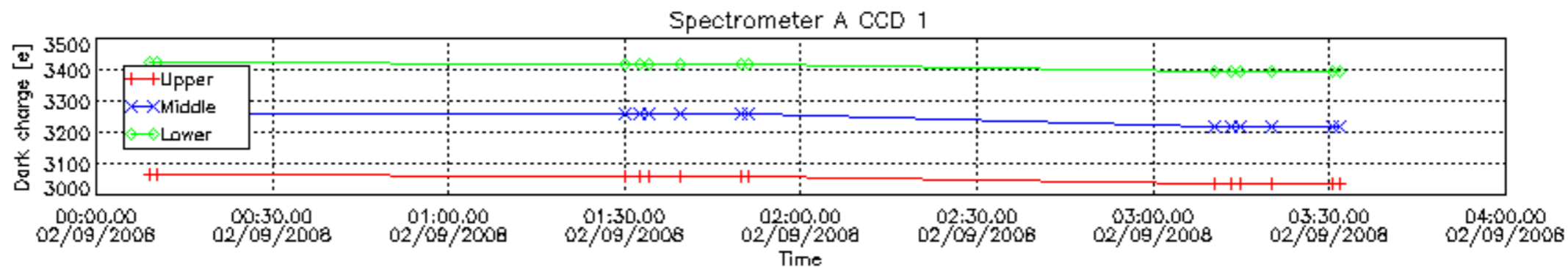
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	02-SEP-2008 00:09:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080827_075127_20080825_000000_20100101_000000	1	02-SEP-2008 00:09:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-SEP-2008 00:09:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-SEP-2008 00:09:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-SEP-2008 00:09:09
ECMWF_FILE	AUX_ECF_AXNECM20080901_072111_20080901_210000_20080902_090000	1	02-SEP-2008 00:09:09
OPTIONAL_ECMWF_FILE	MISSING	1	02-SEP-2008 00:09:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080901_220152_000060572071_00401_34022_6276.N1	1	02-SEP-2008 00:09:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080901_234808_000054192071_00402_34023_6277.N1	17	02-SEP-2008 01:29:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080902_012346_000044632071_00403_34024_6278.N1	35	02-SEP-2008 02:55:02



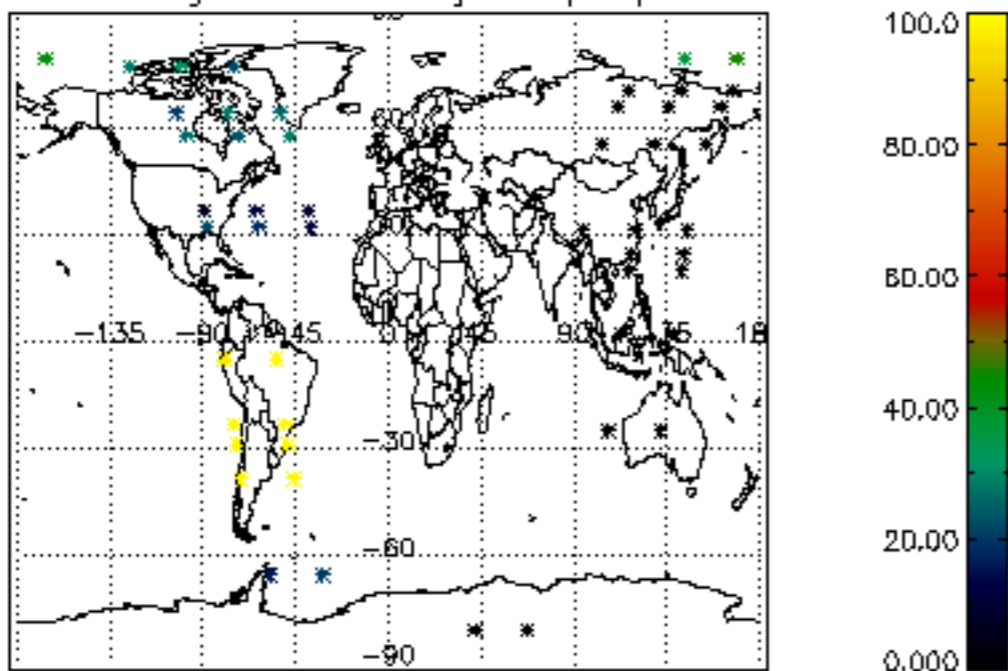




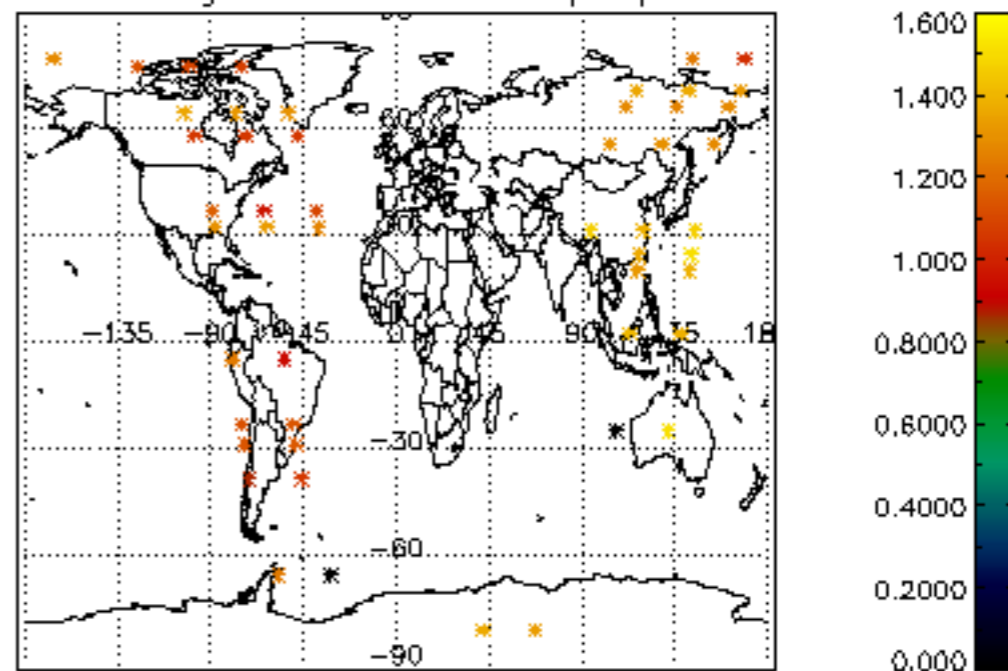




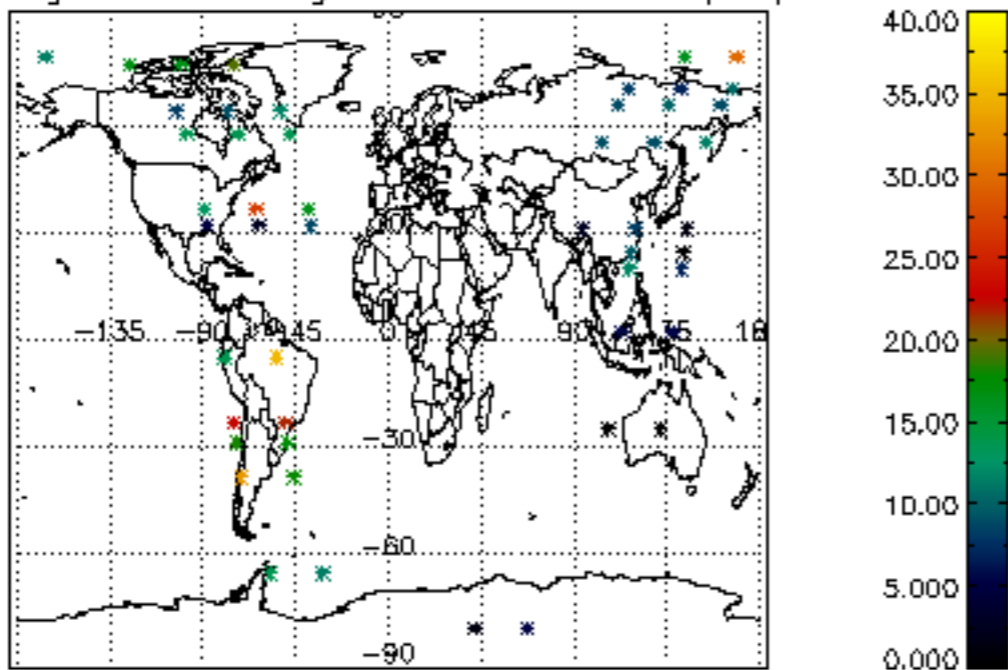
Percentage of cosmic ray hits per profile



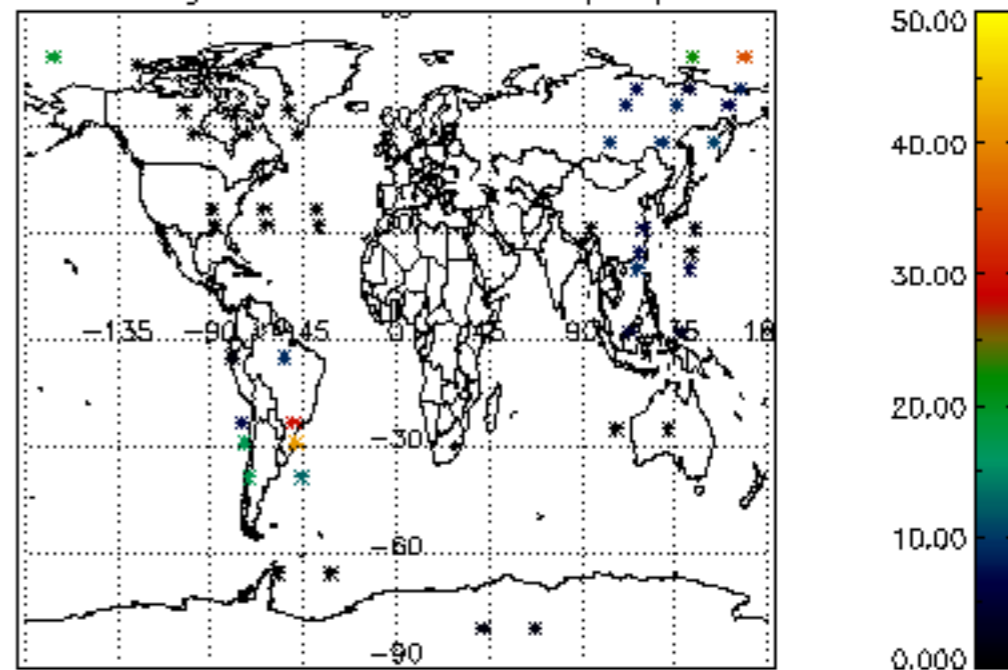
Percentage of datation errors per profile



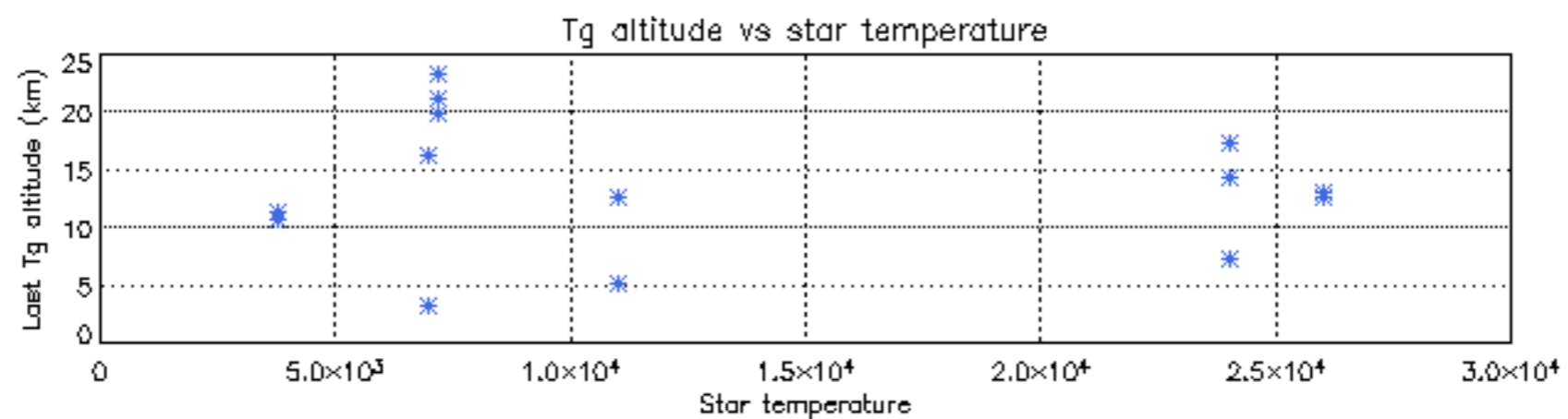
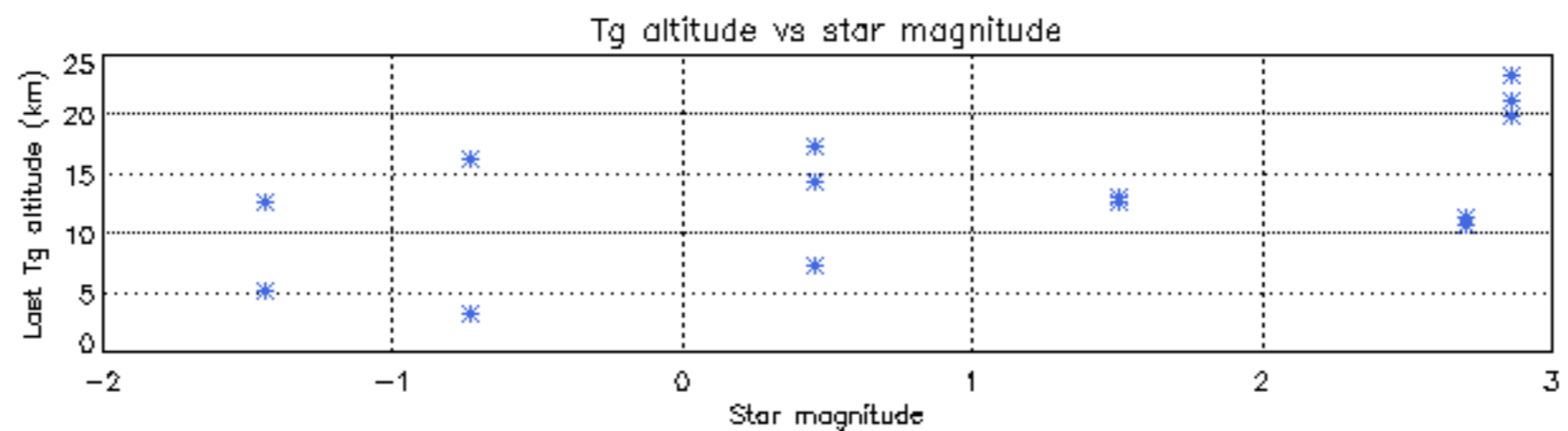
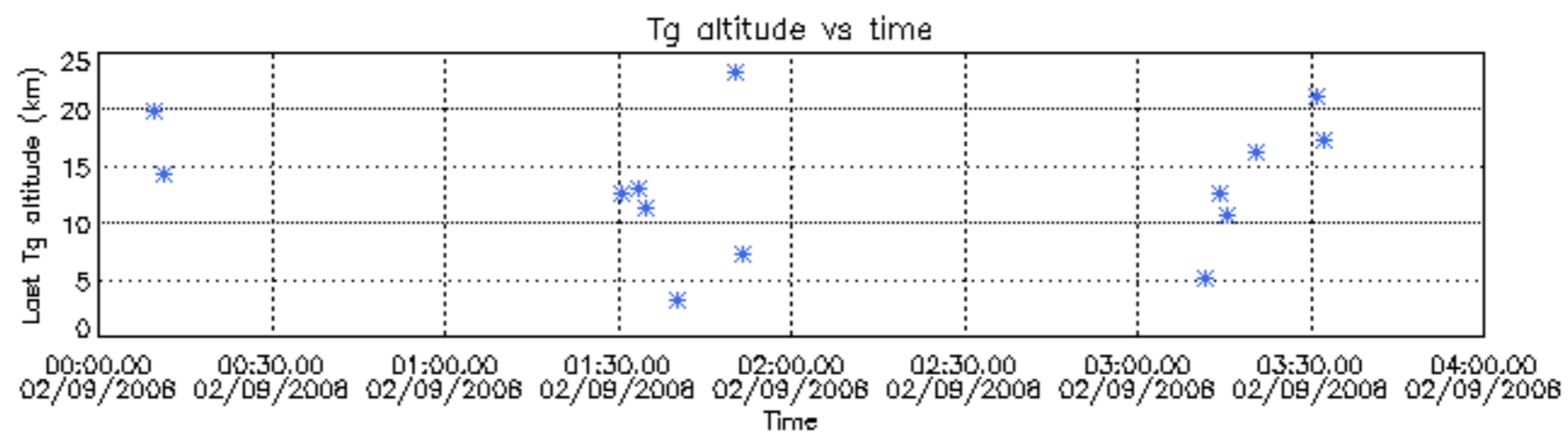
Percentage of star falling outside central band per profile



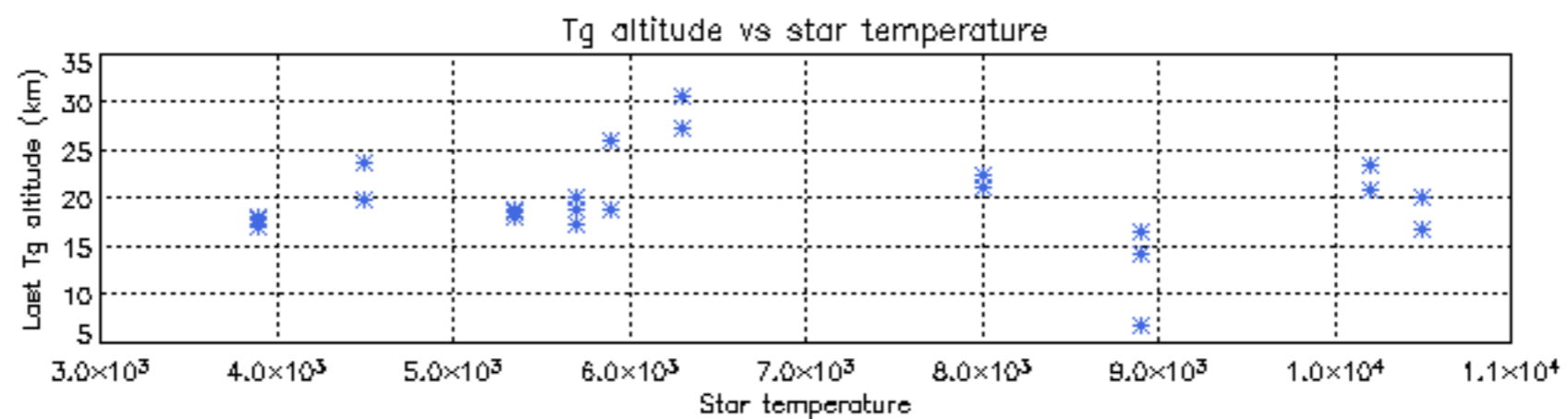
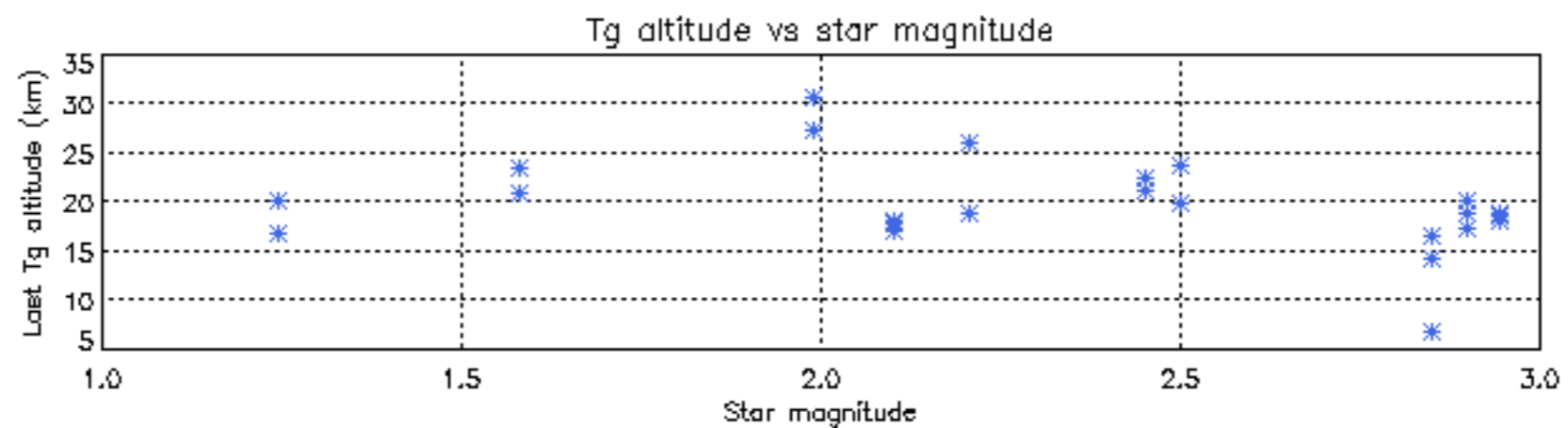
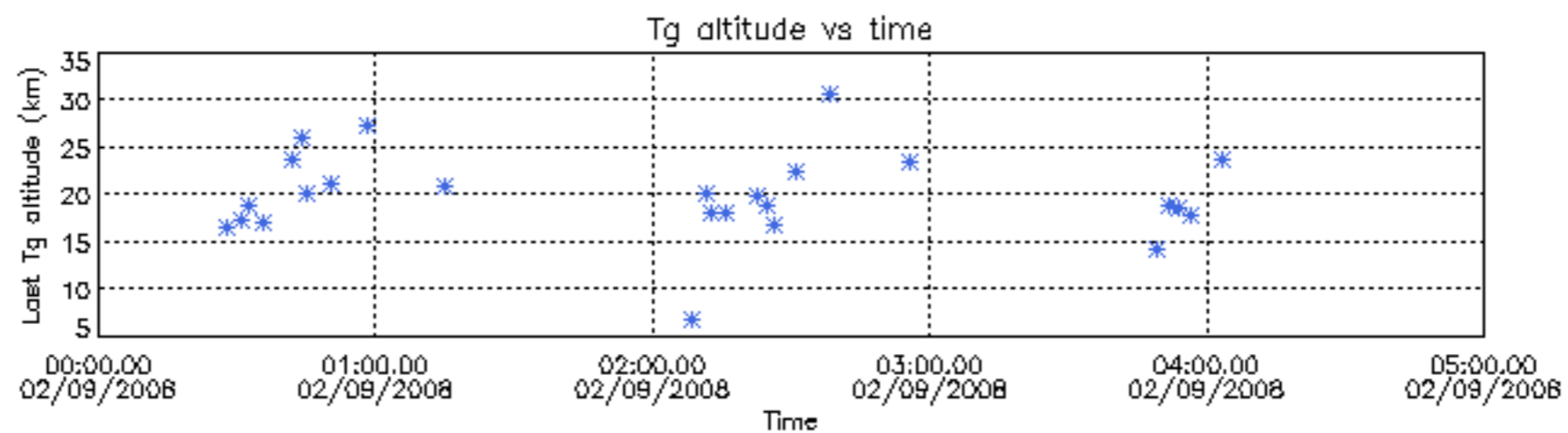
Percentage of saturation errors per profile



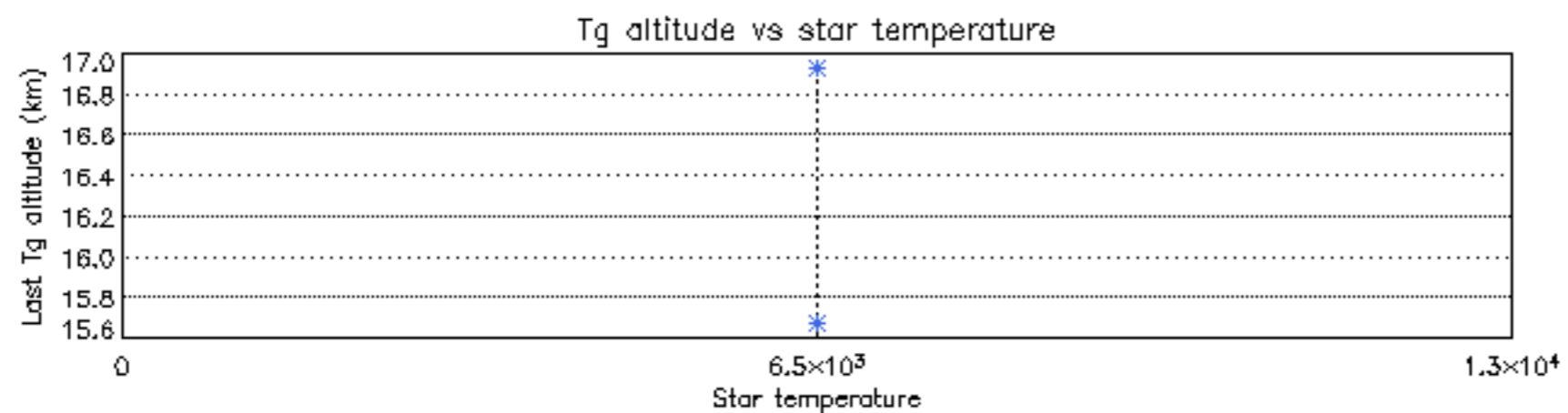
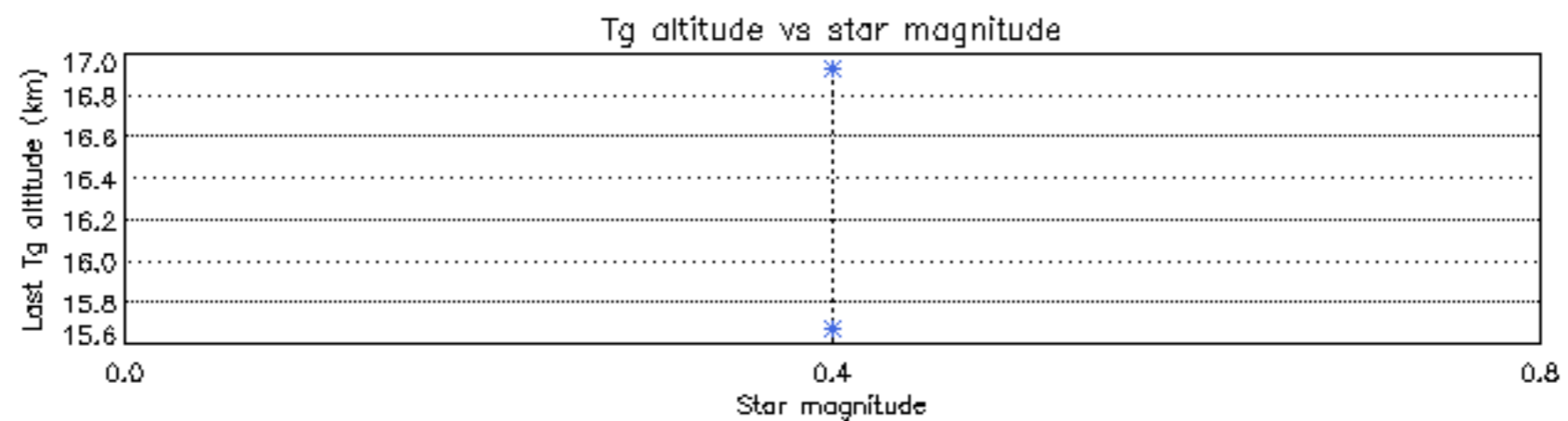
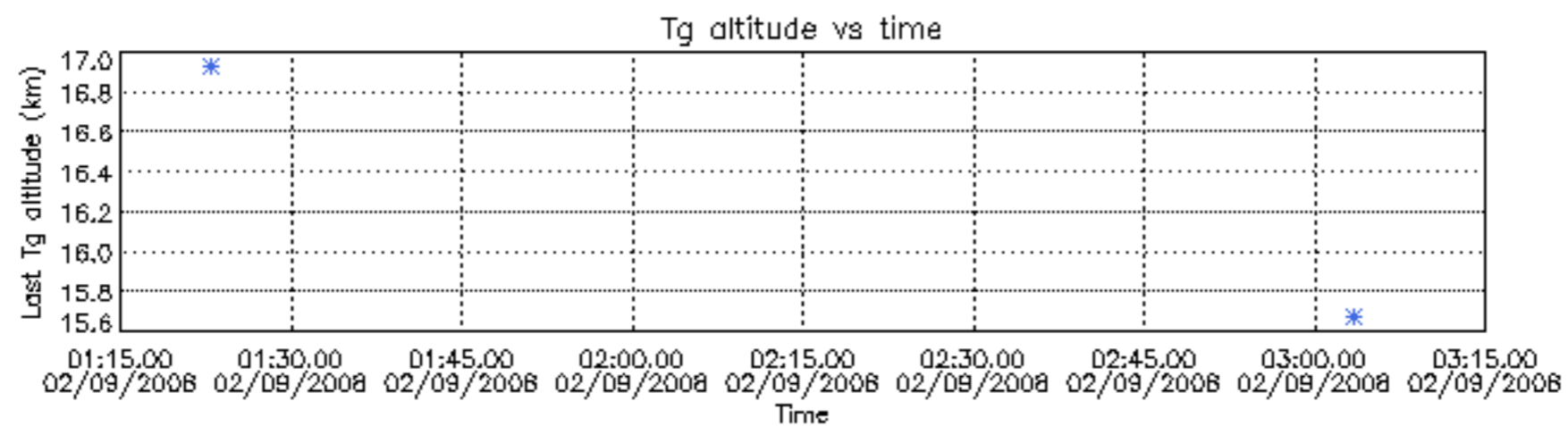
Tangent altitude at which the star is lost

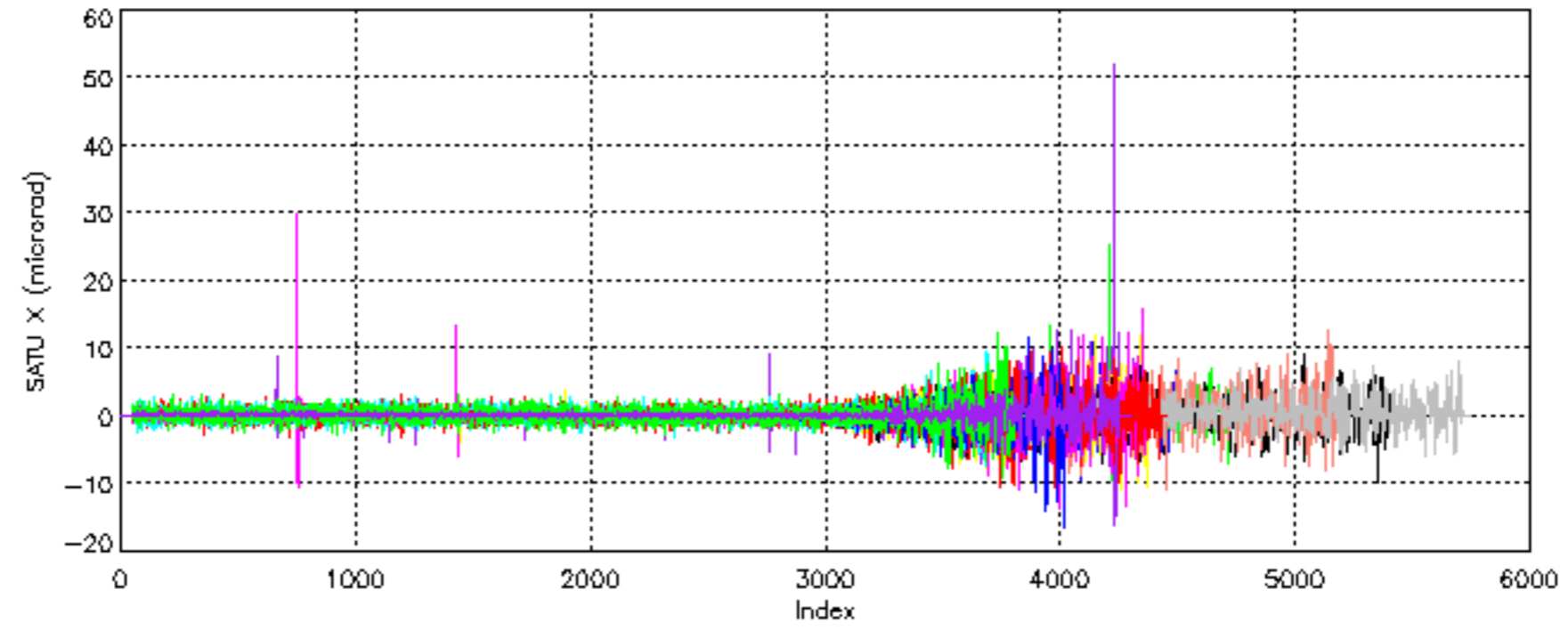


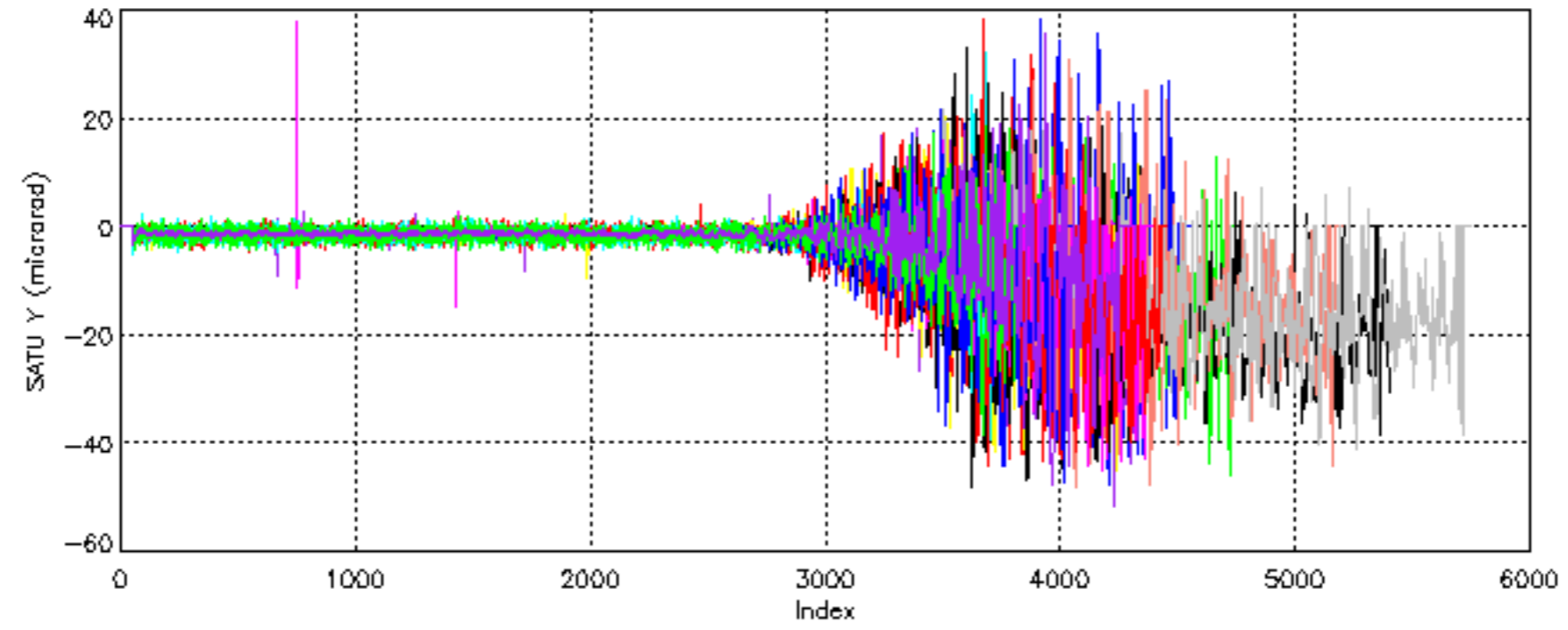
Tangent altitude at which the star is lost

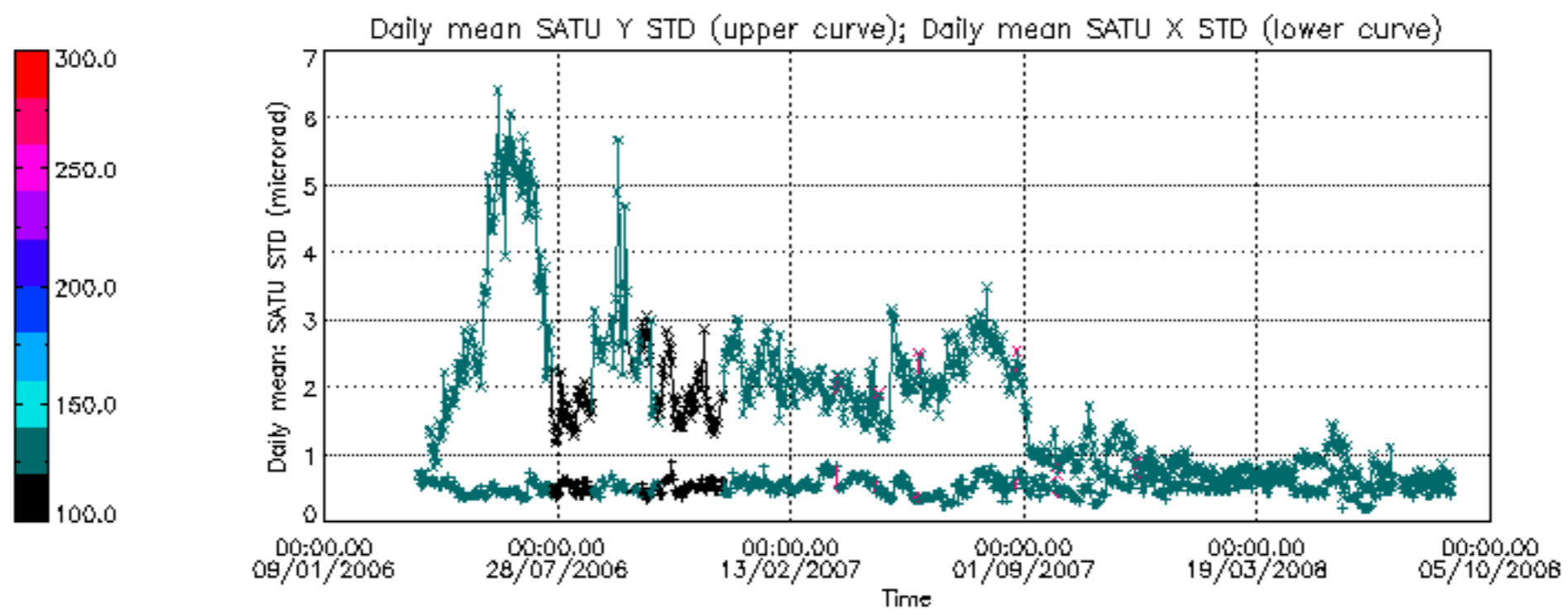


Tangent altitude at which the star is lost









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 5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009
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 2; -1118.9; 01-SEP-2008 05:14:57; Dark ; 38.5; 8; 10Alp CMi ; 0.40; 6500;occ; 77; 0;34012
 3; -657.5; 01-SEP-2008 05:22:39; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34012

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4; -492.5; 01-SEP-2008 05:25:24; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;34012
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8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
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6; 536.9; 01-SEP-2008 22:28:32; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34023
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6; 4478.0; 13-SEP-2008 20:36:01; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;34193
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4; -154.4; 13-SEP-2008 20:59:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34193
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7; 710.6; 13-SEP-2008 21:13:49; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;34194
8; 1056.8; 13-SEP-2008 21:19:36; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;34194
9; 2184.5; 13-SEP-2008 21:38:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;34194

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13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
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6; -38.7; 22-SEP-2008 04:32:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34312
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5; 7.4; 22-SEP-2008 21:19:22; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34323  
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7; 772.8; 22-SEP-2008 21:32:07; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;34323  
8; 1106.2; 22-SEP-2008 21:37:41; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;34323  
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12; 2477.2; 22-SEP-2008 22:00:32; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;34323  
13; 2985.7; 22-SEP-2008 22:09:00; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34323  
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6; 9.3; 23-SEP-2008 02:21:12; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34326
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7; 3074.4; 23-SEP-2008 21:38:52; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34337
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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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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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2; -207.9; 26-SEP-2008 02:23:20; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;34368
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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2; -933.3; 26-SEP-2008 03:51:50; Dark ; 45.0; 8; 10Alp CMI ; 0.40; 6500;occ; 90; 0;34369
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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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
10; 1548.9; 26-SEP-2008 06:13:48; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;34371
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
14; 3058.9; 26-SEP-2008 06:38:58; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34371
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3; -497.6; 26-SEP-2008 07:20:18; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;34371
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
10; 5949.5; 26-SEP-2008 09:07:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34372
11; 6077.5; 26-SEP-2008 09:09:53; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34372
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
10; 5950.1; 26-SEP-2008 10:48:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34373
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
14; 7585.1; 26-SEP-2008 11:15:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34373
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2; 2388.0; 26-SEP-2008 11:29:35; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34374
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
9; 5950.8; 26-SEP-2008 12:28:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34374
10; 6078.9; 26-SEP-2008 12:31:06; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34374
11; 6904.7; 26-SEP-2008 12:44:52; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;34374
12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
13; 7585.3; 26-SEP-2008 12:56:12; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34374
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3; 2968.6; 26-SEP-2008 13:19:52; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34375
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
9; 5951.5; 26-SEP-2008 14:09:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34375
10; 6079.6; 26-SEP-2008 14:11:43; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34375
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
8; 5744.7; 26-SEP-2008 15:46:44; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34376
9; 5837.3; 26-SEP-2008 15:48:16; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34376
10; 5952.3; 26-SEP-2008 15:50:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34376
11; 6080.4; 26-SEP-2008 15:52:19; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;34376
12; 6906.4; 26-SEP-2008 16:06:05; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;34376
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4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
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7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
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12; 6081.1; 26-SEP-2008 17:32:56; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;34377
13; 6907.3; 26-SEP-2008 17:46:42; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34377
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3; 2166.4; 26-SEP-2008 18:08:17; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34378
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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
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
8; 5543.4; 26-SEP-2008 19:04:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;34378
9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
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9; 3990.0; 27-SEP-2008 21:28:16; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34394
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8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
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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 5; 57.3; 27-SEP-2008 22:03:19; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34395
 6; 716.2; 27-SEP-2008 22:14:18; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34395
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13; 3048.4; 27-SEP-2008 22:53:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34395
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16; 3990.1; 27-SEP-2008 23:08:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;34395
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12; 2962.2; 28-SEP-2008 00:32:20; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34396
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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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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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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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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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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
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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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3; -152.6; 28-SEP-2008 23:08:48; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;34409
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5; 68.1; 28-SEP-2008 23:12:29; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34410
6; 152.1; 28-SEP-2008 23:13:53; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;34410
7; 722.2; 28-SEP-2008 23:23:23; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34410
8; 809.7; 28-SEP-2008 23:24:50; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;34410
9; 1134.0; 28-SEP-2008 23:30:15; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;34410
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11; 2166.8; 28-SEP-2008 23:47:28; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34410
12; 2386.5; 28-SEP-2008 23:51:07; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34410
13; 2958.2; 29-SEP-2008 00:00:39; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34410
14; 3042.1; 29-SEP-2008 00:02:03; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34410
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16; 3902.6; 29-SEP-2008 00:16:23; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;34410
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5; 3428.9; 29-SEP-2008 08:31:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34415
6; 3903.3; 29-SEP-2008 08:39:24; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;34415
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13; 5980.6; 29-SEP-2008 10:54:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34416
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 6; 3428.7; 29-SEP-2008 11:52:41; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;34417  
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 9; 4584.2; 29-SEP-2008 12:11:56; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;34417  
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 17; 6761.7; 29-SEP-2008 14:28:50; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34418  
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 16; 6195.4; 29-SEP-2008 15:59:59; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;34419  
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14; 5889.9; 29-SEP-2008 19:16:06; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;34421
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6; 3905.0; 30-SEP-2008 11:29:00; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;34431
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17; 6854.4; 30-SEP-2008 12:18:10; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;34431
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10; 5160.4; 30-SEP-2008 13:30:32; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;34432
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16; 6205.1; 30-SEP-2008 13:47:56; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;34432
17; 6767.2; 30-SEP-2008 13:57:18; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34432
18; 6854.8; 30-SEP-2008 13:58:46; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34432
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3; 2386.3; 30-SEP-2008 14:24:53; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34433
4; 2952.0; 30-SEP-2008 14:34:19; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34433
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6; 3905.5; 30-SEP-2008 14:50:13; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;34433
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12; 5896.5; 30-SEP-2008 15:23:24; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;34433
13; 5993.1; 30-SEP-2008 15:25:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34433
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15; 6205.8; 30-SEP-2008 15:28:33; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;34433
16; 6767.5; 30-SEP-2008 15:37:55; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34433
17; 6855.3; 30-SEP-2008 15:39:22; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34433
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 3; 2386.3; 30-SEP-2008 16:05:29; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34434  
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 7; 3905.6; 30-SEP-2008 16:30:49; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;34434  
 8; 3995.6; 30-SEP-2008 16:32:19; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34434  
 9; 4587.7; 30-SEP-2008 16:42:11; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;34434  
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 11; 5161.6; 30-SEP-2008 18:32:21; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;34435  
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