

# GOMOS Daily Report 29-SEP-2010

## 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	02OCT2010 04:44:55
Data source version	GOMOS/5.01
Start time of products	29SEP2010 00:00:44
Stop time of products	29SEP2010 23:52:04
Store outputs in DB	Yes
Nb of level 1b prods	82
Nb of prods with errors	1

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

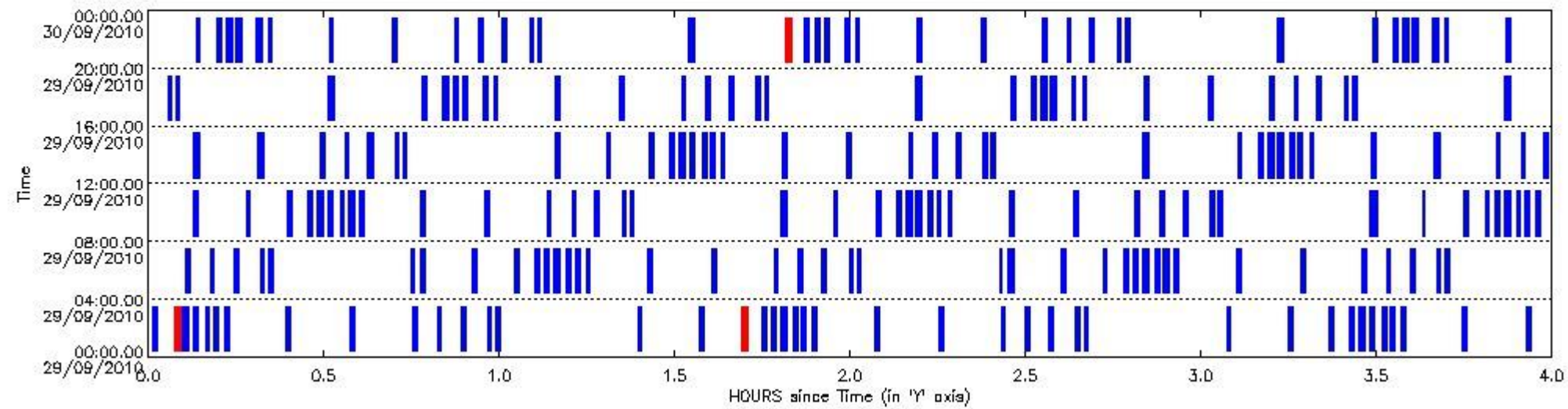
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
29-SEP-2010 00:04:24	31EtaCMa	88	44859
29-SEP-2010 01:41:32	15RhoPup	132	44860
29-SEP-2010 21:48:52	15RhoPup	132	44872

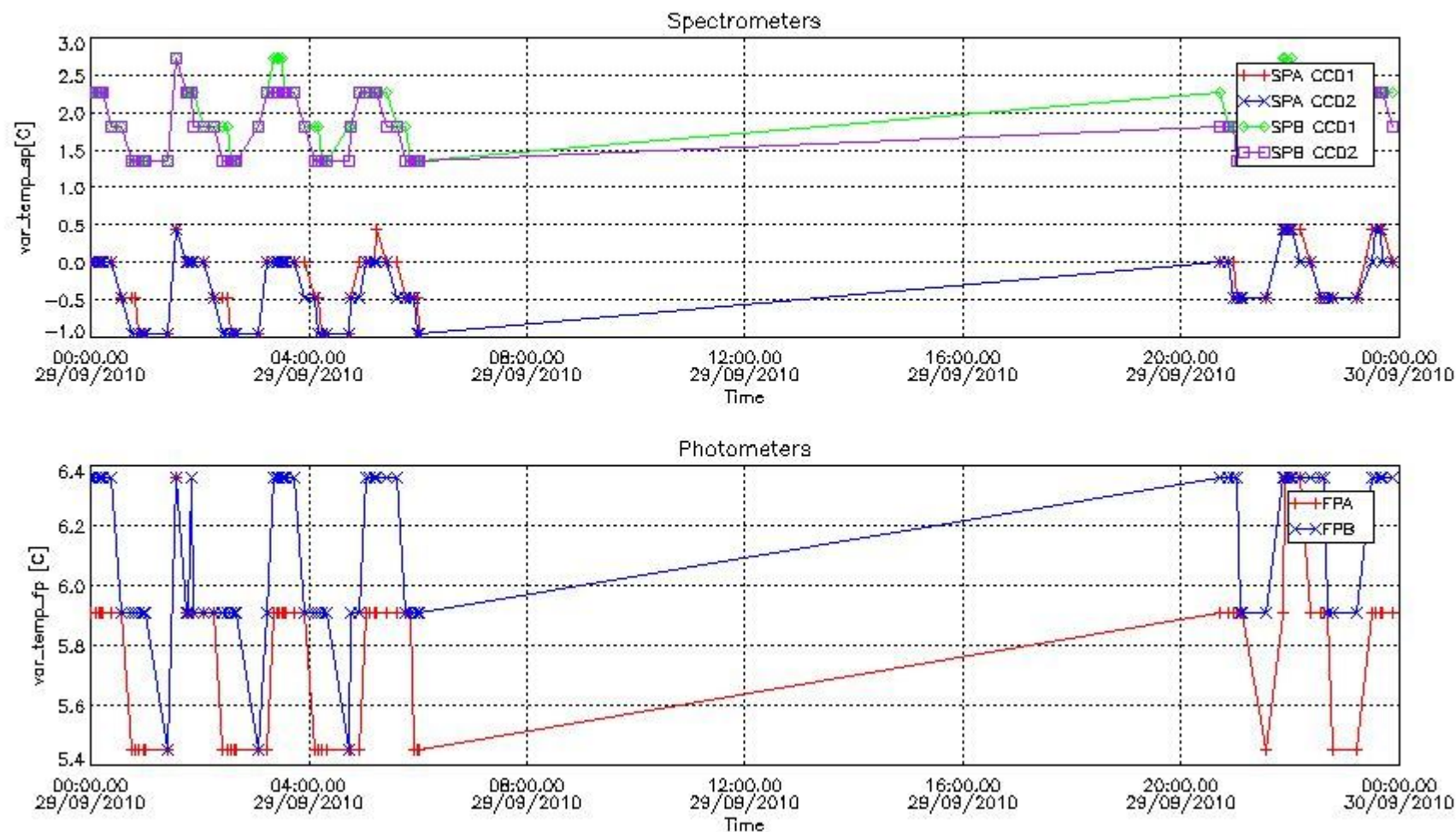
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100929_000044_000000462093_00216_44859_7433.N1	29-SEP-2010 00:00:44	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	44859	No
2	GOM_TRA_1PNPDE20100929_000551_000000552093_00216_44859_7434.N1	29-SEP-2010 00:05:51	Dark	54.500	23	21Eps CMa	1.5020	26000.	109	44859	No
3	GOM_TRA_1PNPDE20100929_000942_000000442093_00217_44860_7435.N1	29-SEP-2010 00:09:42	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44860	No
4	GOM_TRA_1PNPDE20100929_001106_000000582093_00217_44860_7436.N1	29-SEP-2010 00:11:06	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	44860	No
5	GOM_TRA_1PNPDE20100929_001257_000000462093_00217_44860_7437.N1	29-SEP-2010 00:12:57	Dark	46.000	108	Alp Col	2.6520	15200.	92	44860	No
6	GOM_TRA_1PNPDE20100929_002330_000000512093_00217_44860_7438.N1	29-SEP-2010 00:23:30	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44860	No
7	GOM_TRA_1PNPDE20100929_003432_000000512093_00217_44860_7439.N1	29-SEP-2010 00:34:32	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	44860	No
8	GOM_TRA_1PNPDE20100929_004512_000000422093_00217_44860_7440.N1	29-SEP-2010 00:45:12	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44860	No



68	GOM_TRA_1PNPDE20100929_220103_000000312093_00230_44873_7483.N1	29-SEP-2010 22:01:03	Dark	31.000	108	Alp Col	2.6520	15200.	62	44873	No
69	GOM_TRA_1PNPDE20100929_221127_000000522093_00230_44873_7484.N1	29-SEP-2010 22:11:27	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	44873	No
70	GOM_TRA_1PNPDE20100929_222221_000000482093_00230_44873_7485.N1	29-SEP-2010 22:22:21	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44873	No
71	GOM_TRA_1PNPDE20100929_223256_000000412093_00230_44873_7486.N1	29-SEP-2010 22:32:56	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44873	No
72	GOM_TRA_1PNPDE20100929_223707_000000392093_00230_44873_7487.N1	29-SEP-2010 22:37:07	Bright	38.500	58	21Alp And	2.0730	11000.	77	44873	No
73	GOM_TRA_1PNPDE20100929_224100_000000462093_00230_44873_7488.N1	29-SEP-2010 22:41:00	Bright	46.000	53	43Bet And	2.0480	3300.0	92	44873	No
74	GOM_TRA_1PNPDE20100929_224543_000000402093_00230_44873_7489.N1	29-SEP-2010 22:45:43	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44873	No
75	GOM_TRA_1PNPDE20100929_224706_000000402093_00230_44873_7490.N1	29-SEP-2010 22:47:06	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44873	No
76	GOM_TRA_1PNPDE20100929_231302_000000592093_00230_44873_7491.N1	29-SEP-2010 23:13:02	Bright	59.000	17	78Bet Gem	1.1610	4500.0	118	44873	No
77	GOM_TRA_1PNPDE20100929_232918_000000472093_00230_44873_7502.N1	29-SEP-2010 23:29:18	Dark	46.500	132	15Rho Pup	2.8030	6900.0	93	44873	No
78	GOM_TRA_1PNPDE20100929_233250_000000512093_00230_44873_7503.N1	29-SEP-2010 23:32:50	Dark	51.000	88	31Eta CMa	2.4480	20000.	102	44873	No
79	GOM_TRA_1PNPDE20100929_233431_000000562093_00230_44873_7504.N1	29-SEP-2010 23:34:31	Dark	56.000	23	21Eps CMa	1.5020	26000.	112	44873	No
80	GOM_TRA_1PNPDE20100929_233939_000000572093_00231_44874_7505.N1	29-SEP-2010 23:39:39	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	44874	No
81	GOM_TRA_1PNPDE20100929_234140_000000282093_00231_44874_7506.N1	29-SEP-2010 23:41:40	Dark	28.000	108	Alp Col	2.6520	15200.	56	44874	No
82	GOM_TRA_1PNPDE20100929_235204_000000492093_00231_44874_7507.N1	29-SEP-2010 23:52:04	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	44874	No

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



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

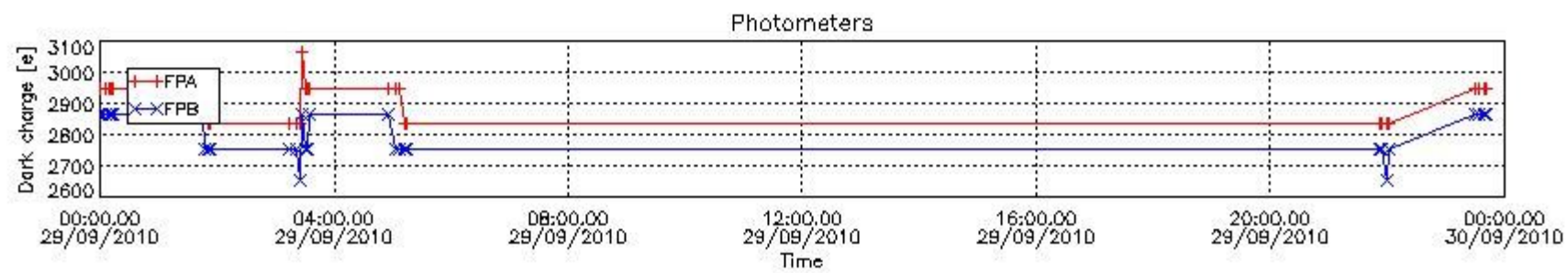
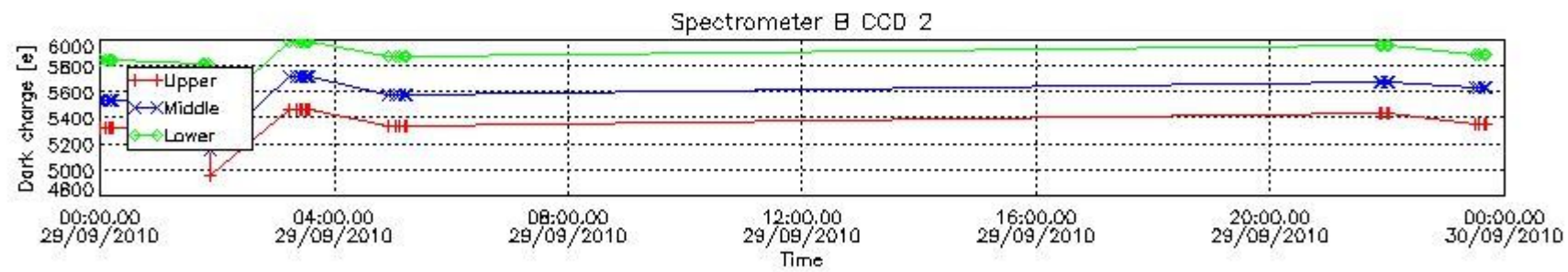
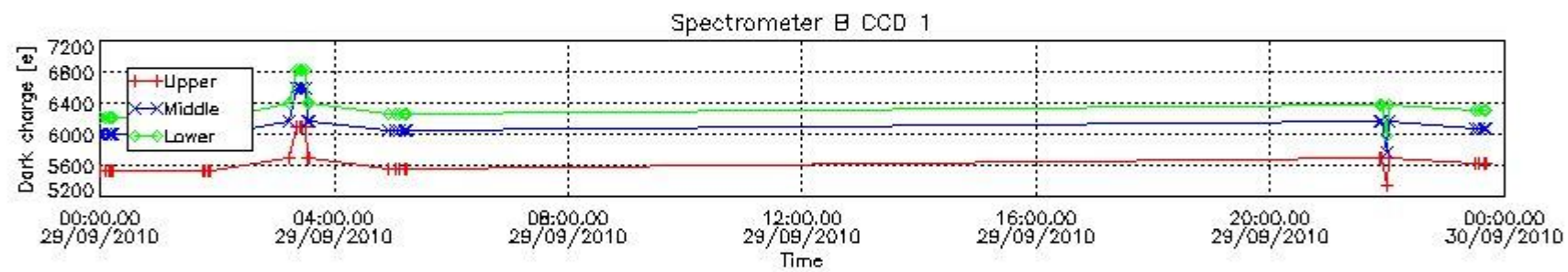
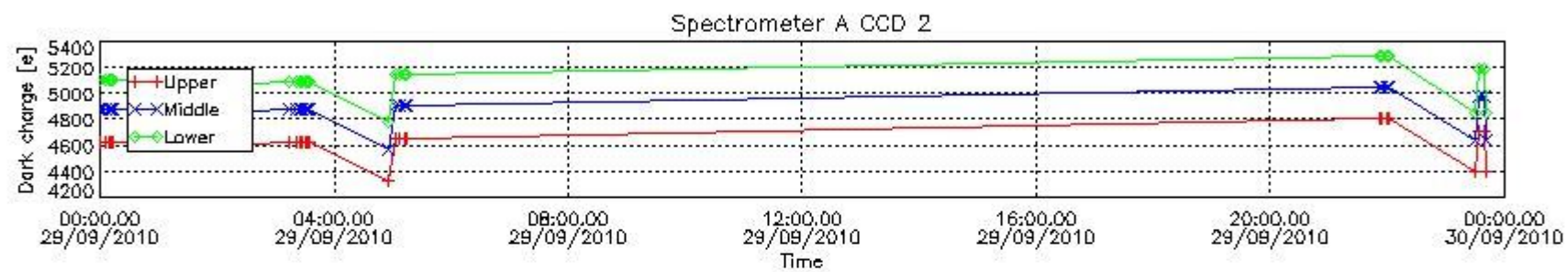
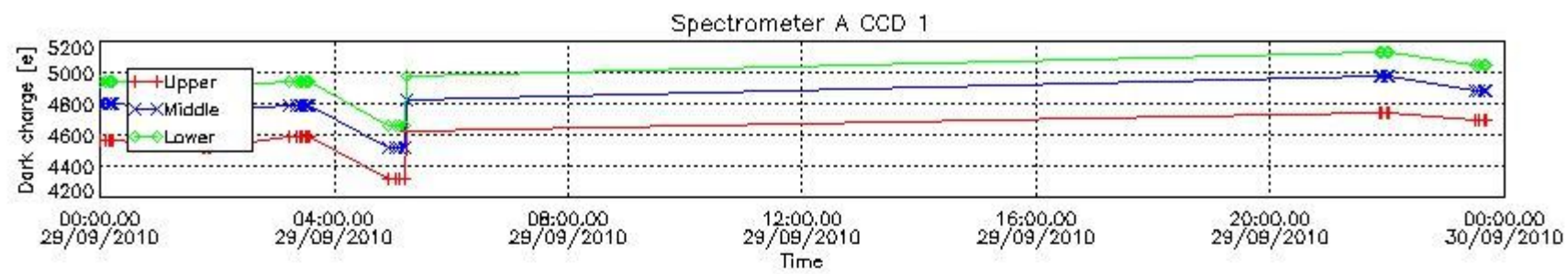
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

Product name	DC information
GOM_TRA_1PNPDE20100929_204145_000000502093_00229_44872_7405.N1	DC map used
GOM_TRA_1PNPDE20100929_205220_000000422093_00229_44872_7406.N1	DC map used
GOM_TRA_1PNPDE20100929_205632_000000412093_00229_44872_7407.N1	DC map used
GOM_TRA_1PNPDE20100929_210025_000000512093_00229_44872_7408.N1	DC map used
GOM_TRA_1PNPDE20100929_210507_000000402093_00229_44872_7409.N1	DC map used
GOM_TRA_1PNPDE20100929_210630_000000402093_00229_44872_7410.N1	DC map used
GOM_TRA_1PNPDE20100929_213226_000000592093_00229_44872_7411.N1	DC map used

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



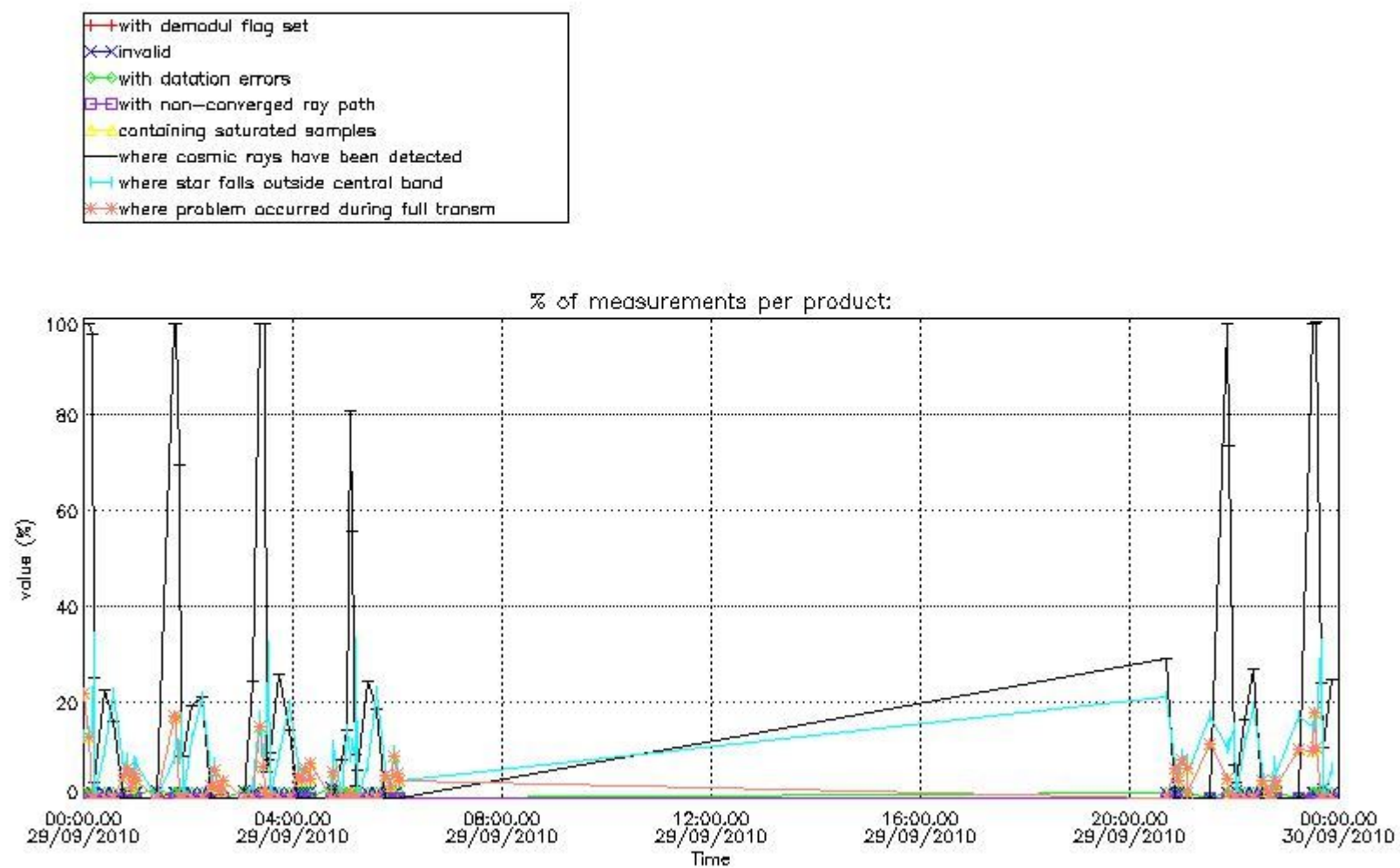
## 5. Demodulation flag and quality information monitoring

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

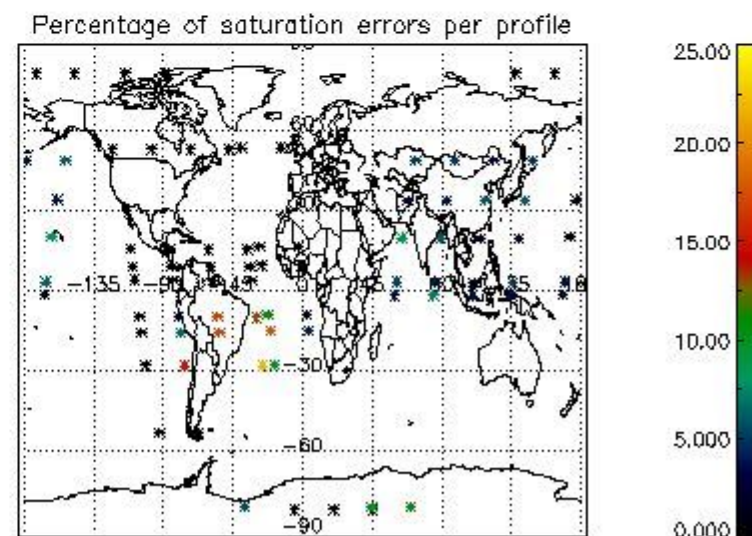
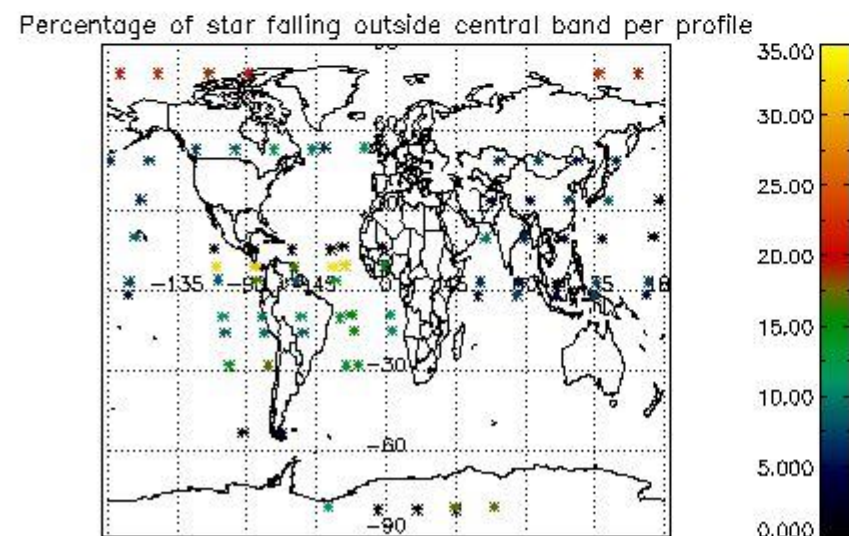
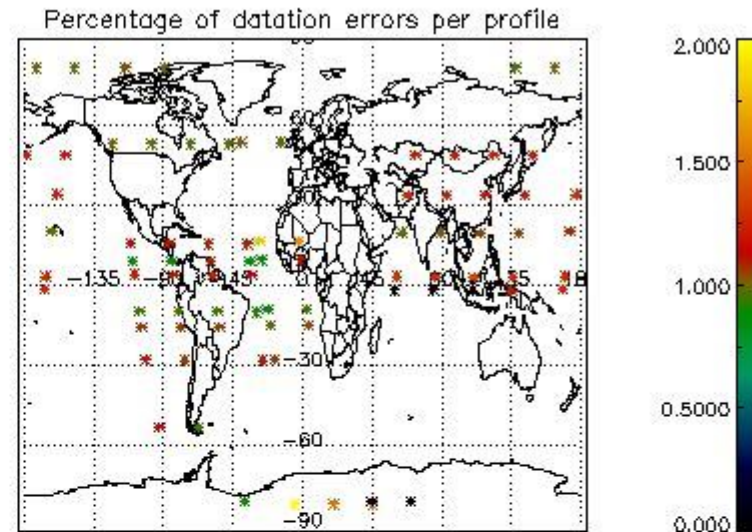
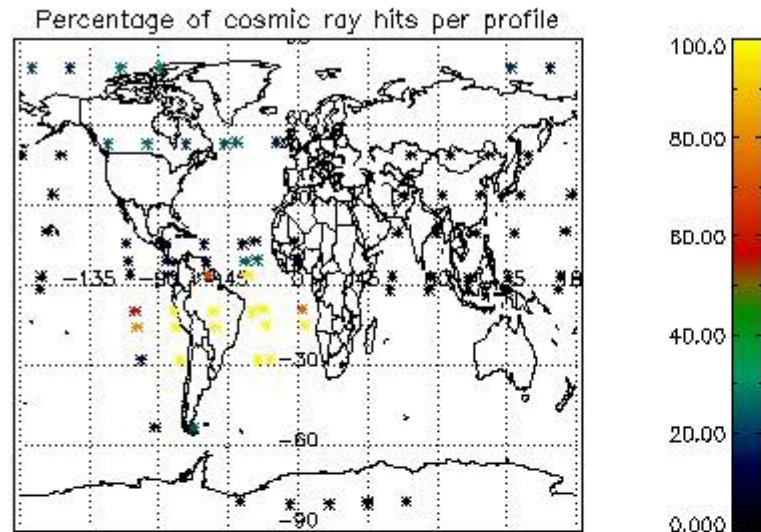
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	48.1481 %
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)

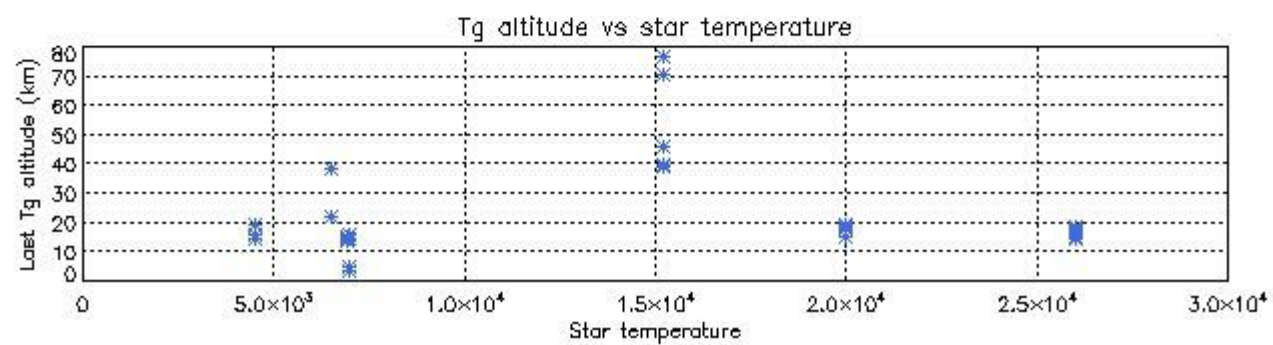
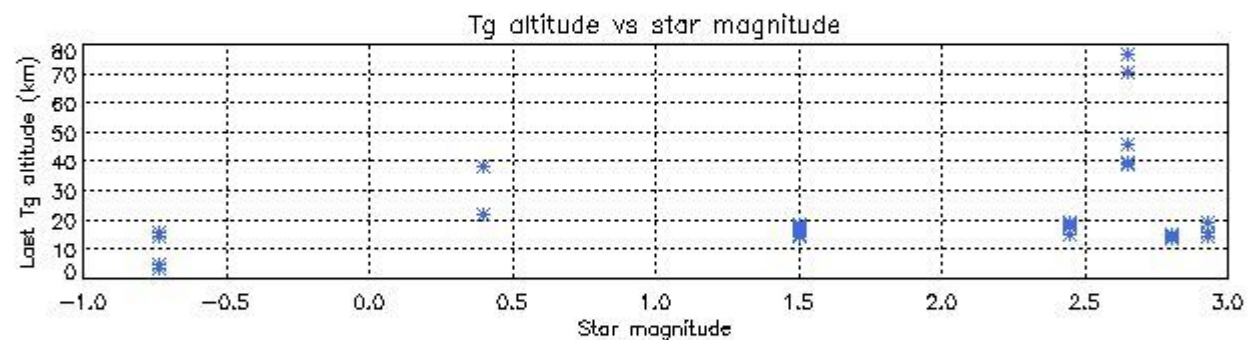
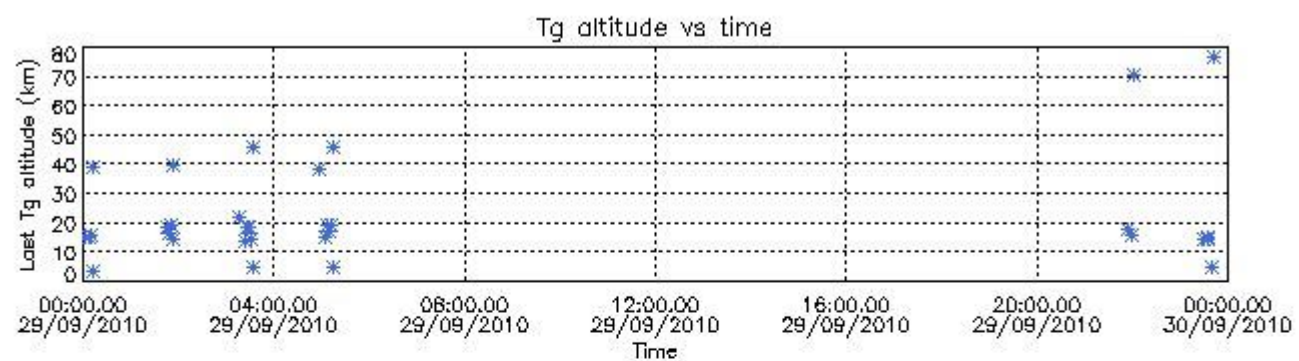
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.458	20.625	NaN
St. deviation:	17.014	2.7980	NaN
Maximum:	76.662	24.916	NaN
Minimum:	3.4759	12.831	NaN
Number of data:	33.000	33.000	NaN

### 6.2 Plot for DARK limb products

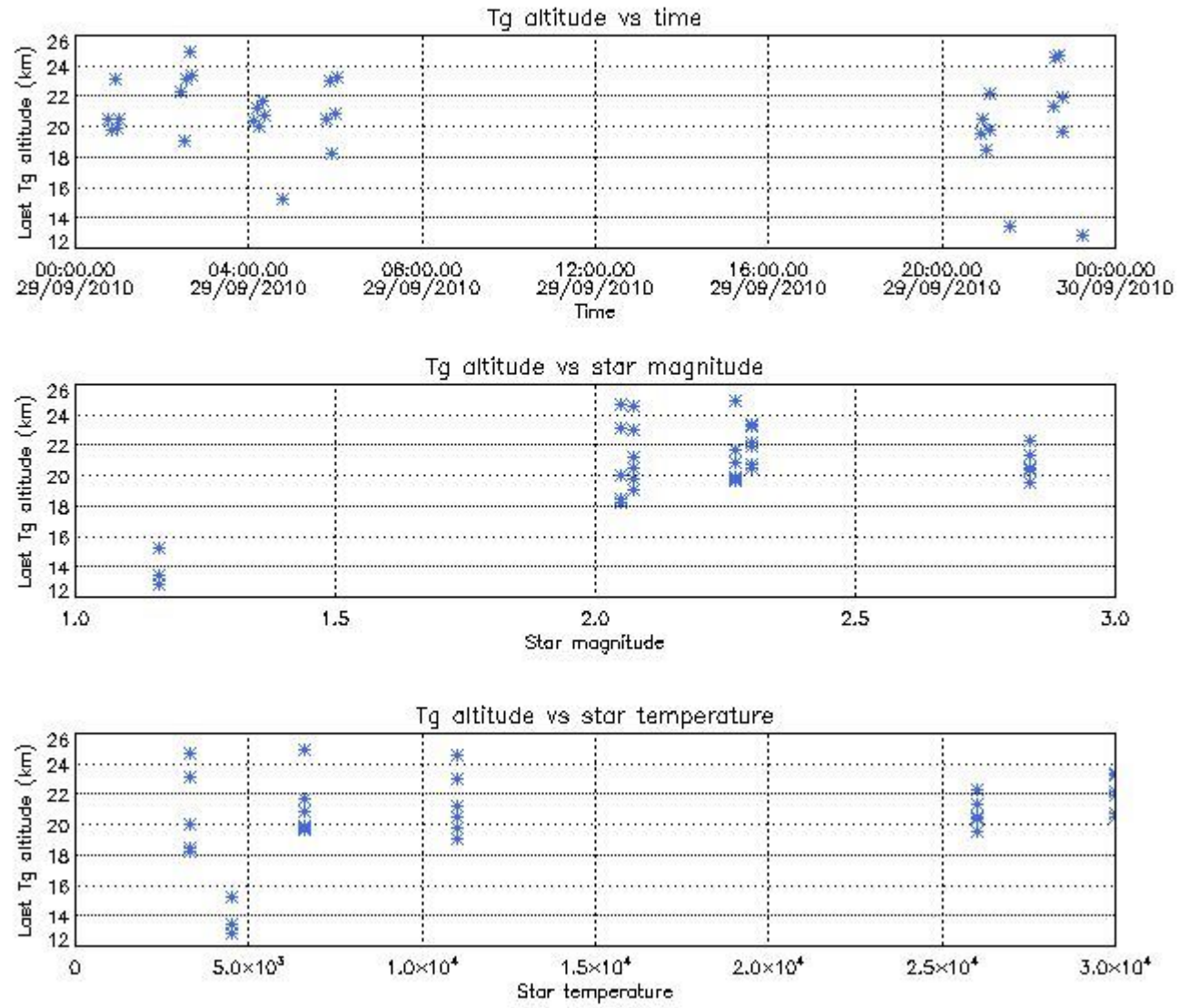


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

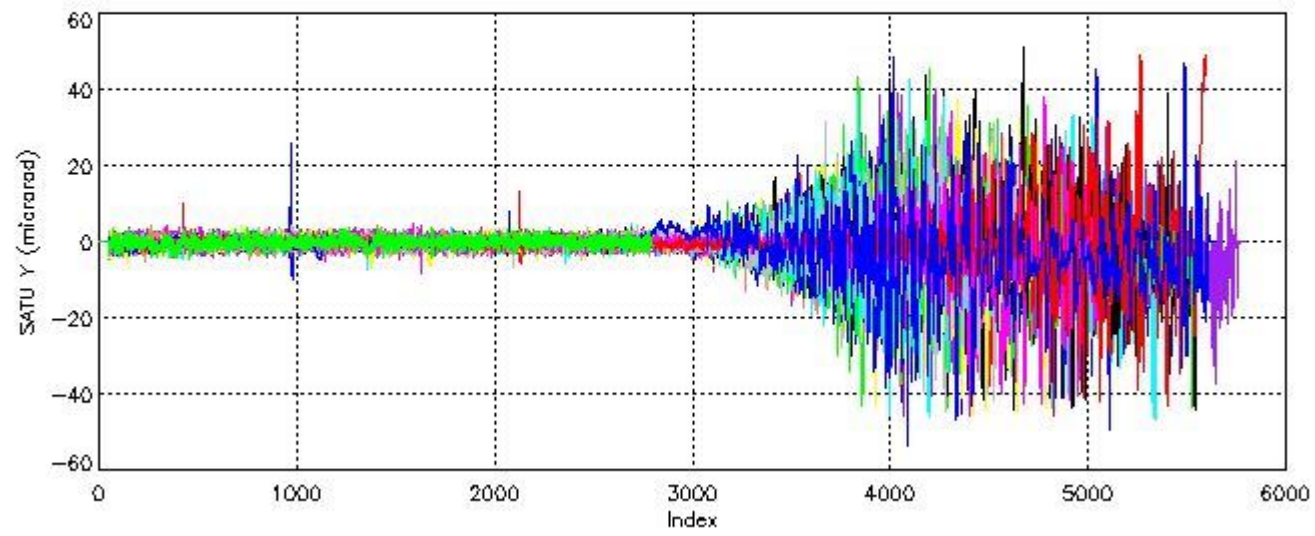
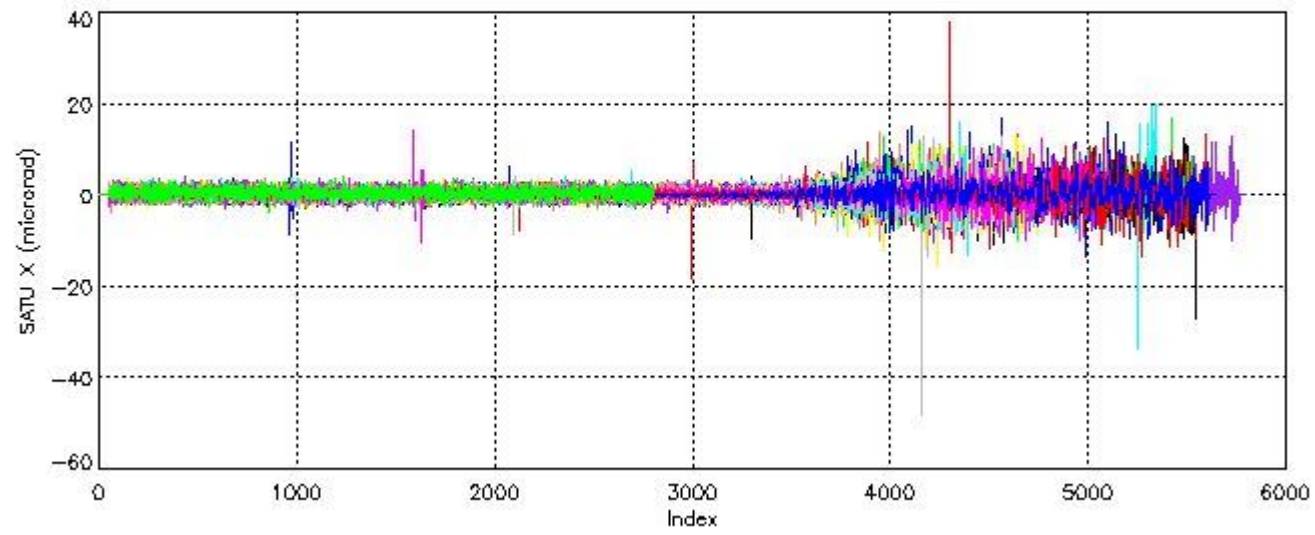


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.21828	-0.28659	0.20265	-0.36212
St. deviation:	0.57863	0.88623	0.78507	1.1168
Maximum:	4.2000	9.9000	6.8000	5.8000
Minimum:	-3.9000	-5.6000	-6.2000	-9.9000

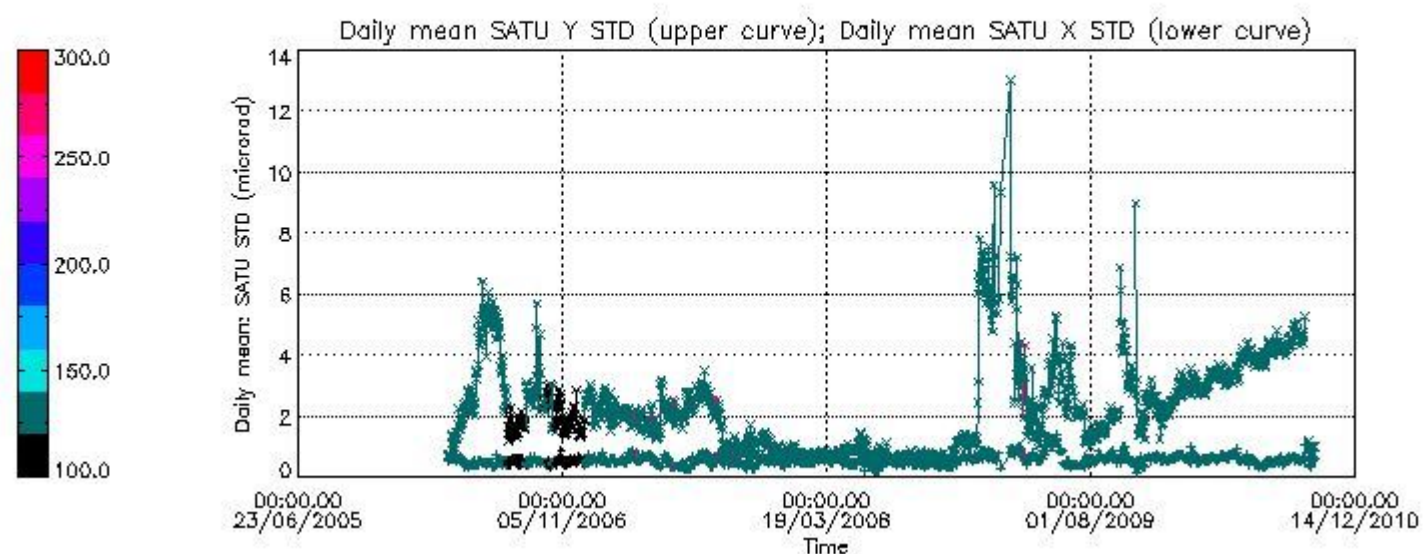
Number of data:	36600.	36600.	34300.	34300.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

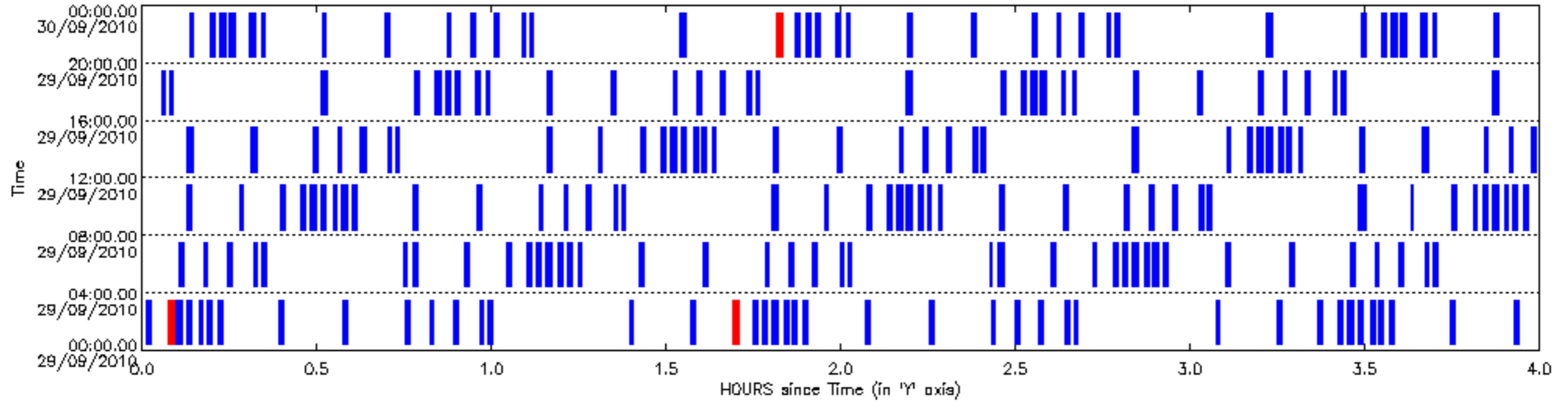
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

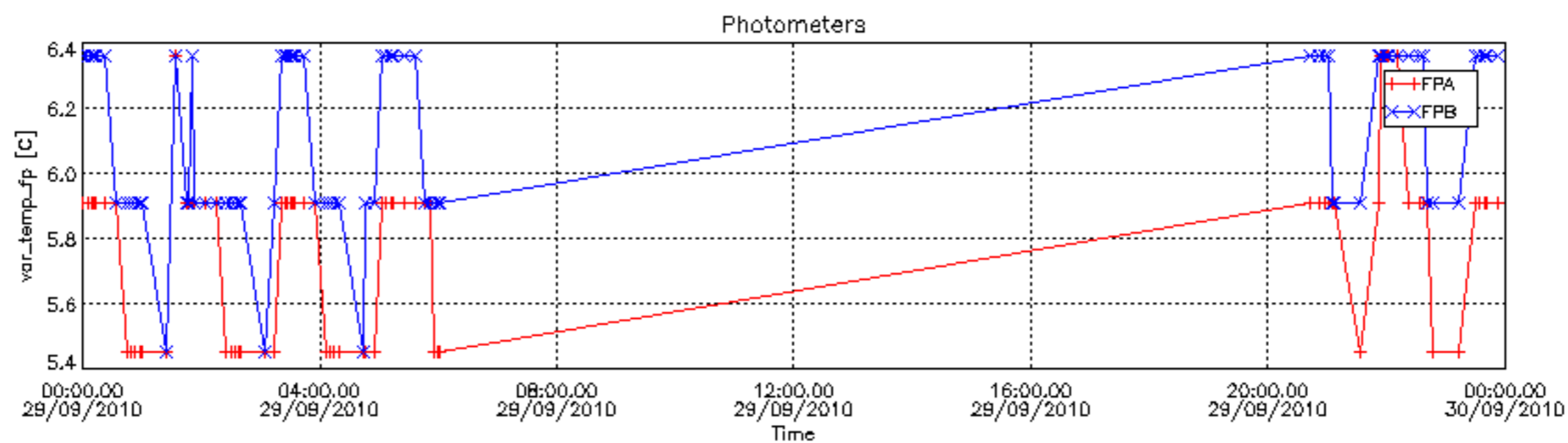
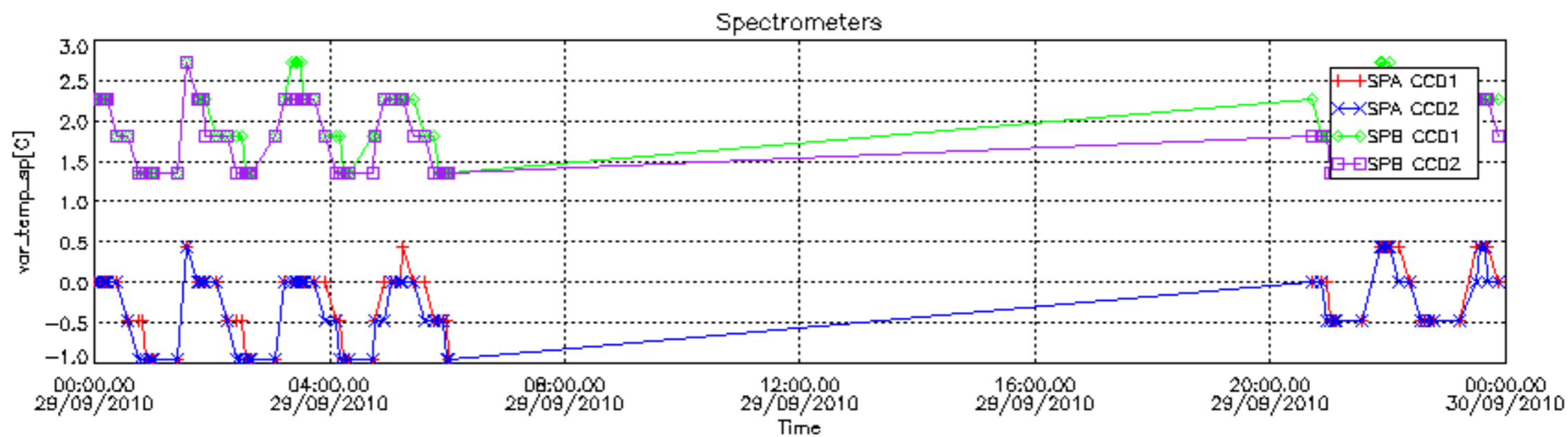


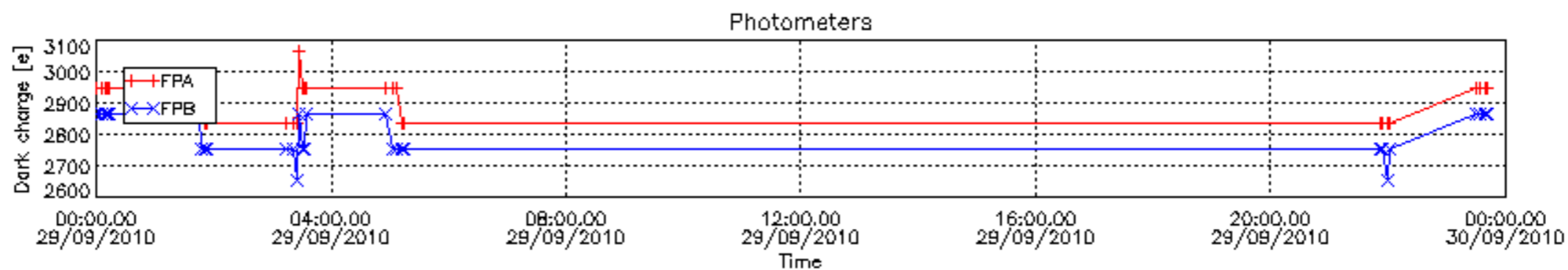
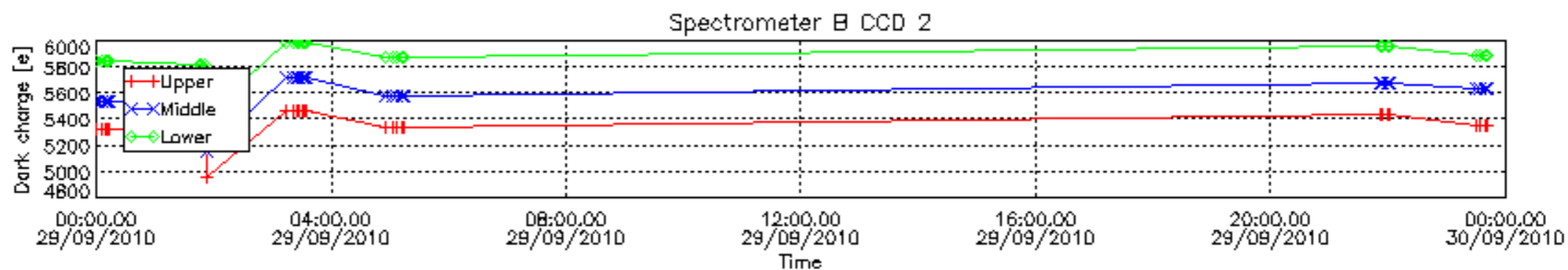
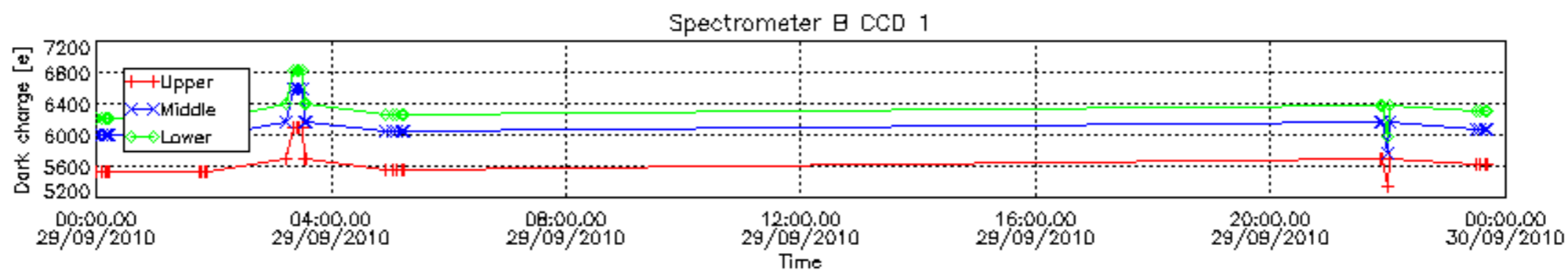
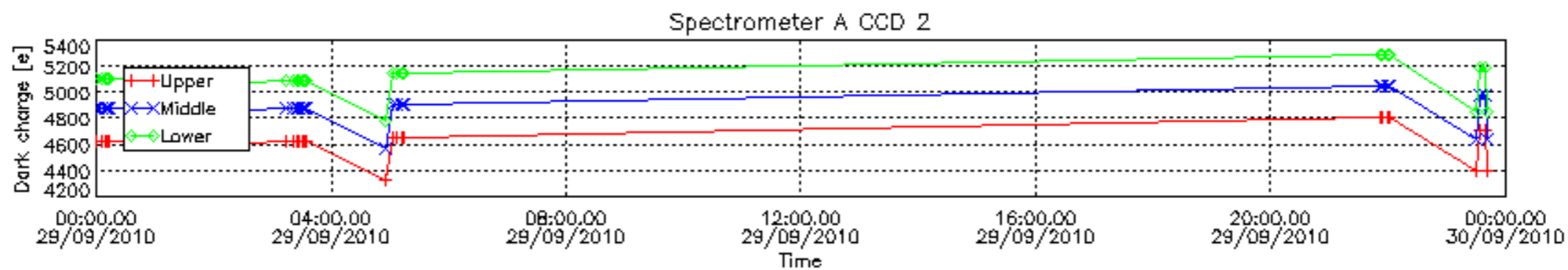
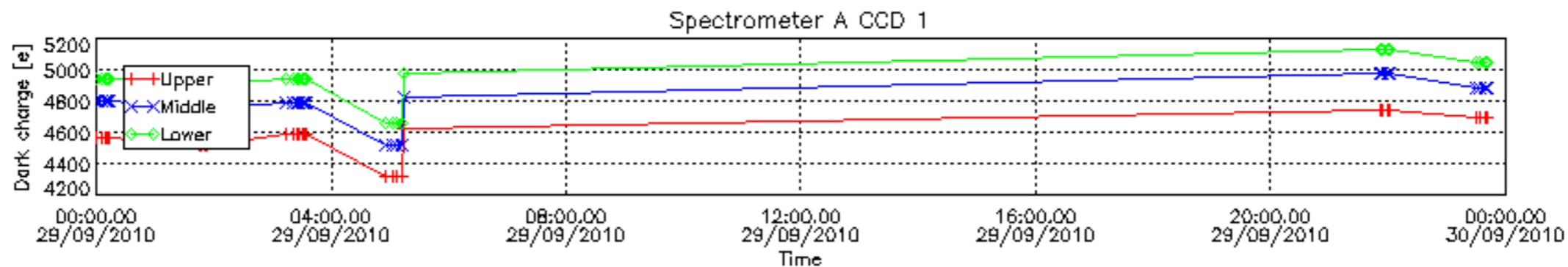
### 8. Auxiliary Data Files used for the production reported in section 2.4

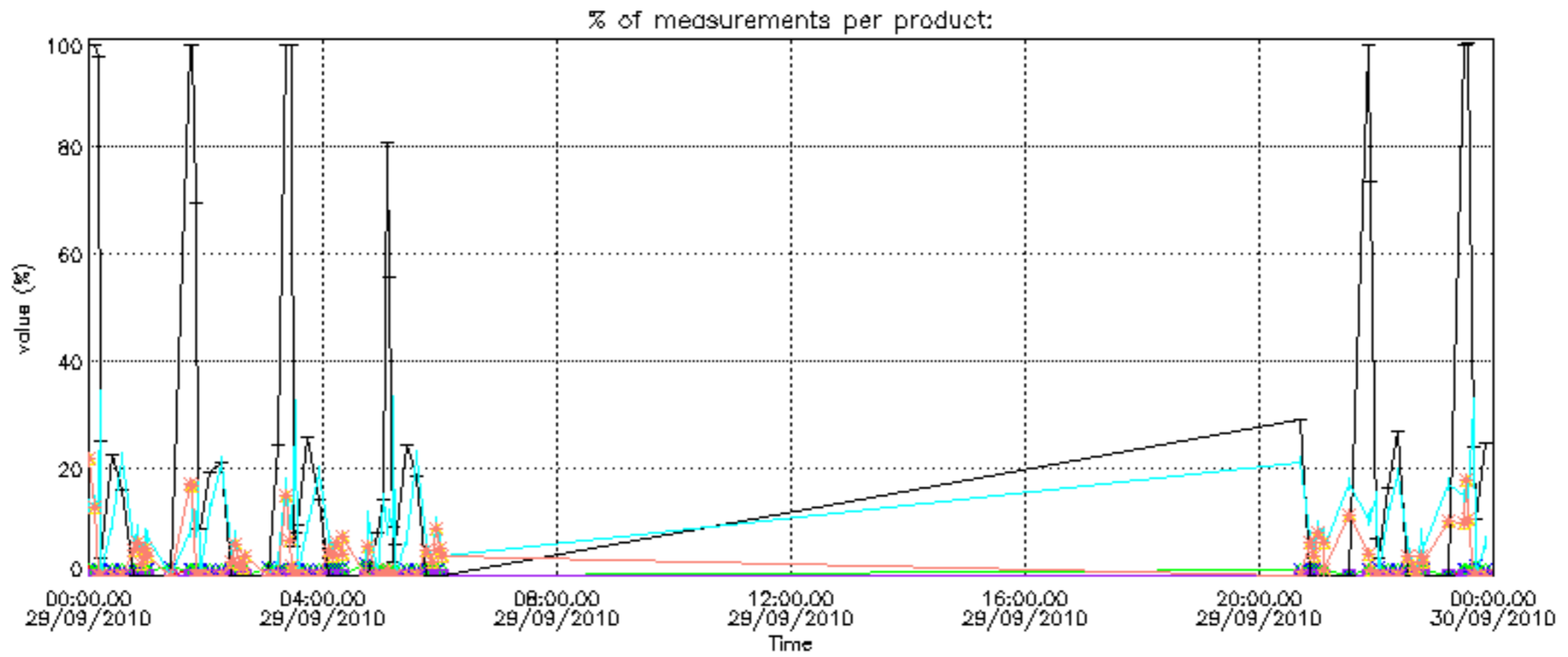
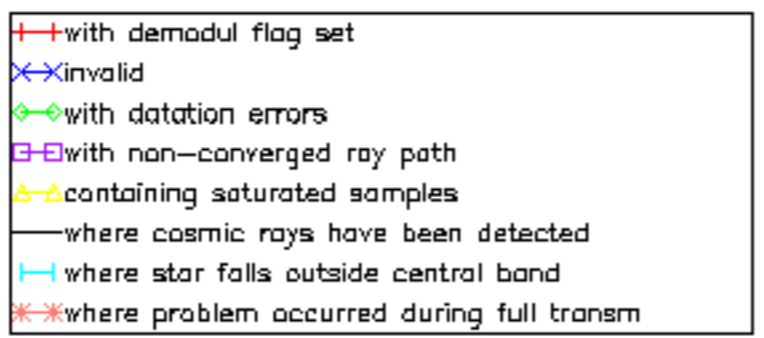
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-SEP-2010 00:00:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	29-SEP-2010 00:00:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	29-SEP-2010 00:00:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-SEP-2010 00:00:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	29-SEP-2010 00:00:44
ECMWF_FILE	AUX_ECA_AXNECM20100929_053614_20100928_210000_20100929_090000	1	29-SEP-2010 00:00:44
ECMWF_FILE	AUX_ECF_AXNECM20100929_055614_20100929_150000_20100930_030000	58	29-SEP-2010 20:41:45
ECMWF_FILE	AUX_ECF_AXNECM20100929_055614_20100929_210000_20100930_090000	65	29-SEP-2010 21:52:14
OPTIONAL_ECMWF_FILE	MISSING	1	29-SEP-2010 00:00:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100928_235151_000057382093_00216_44859_1157.N1	1	29-SEP-2010 00:00:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_013248_000041442093_00217_44860_1158.N1	14	29-SEP-2010 01:34:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_024711_000057382093_00218_44861_1159.N1	27	29-SEP-2010 03:04:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_042808_000057382093_00219_44862_1160.N1	42	29-SEP-2010 04:44:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_202949_000038252093_00229_44872_1161.N1	58	29-SEP-2010 20:41:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_213853_000057382093_00229_44872_1162.N1	65	29-SEP-2010 21:52:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100929_231950_000057382093_00230_44873_1163.N1	77	29-SEP-2010 23:29:18



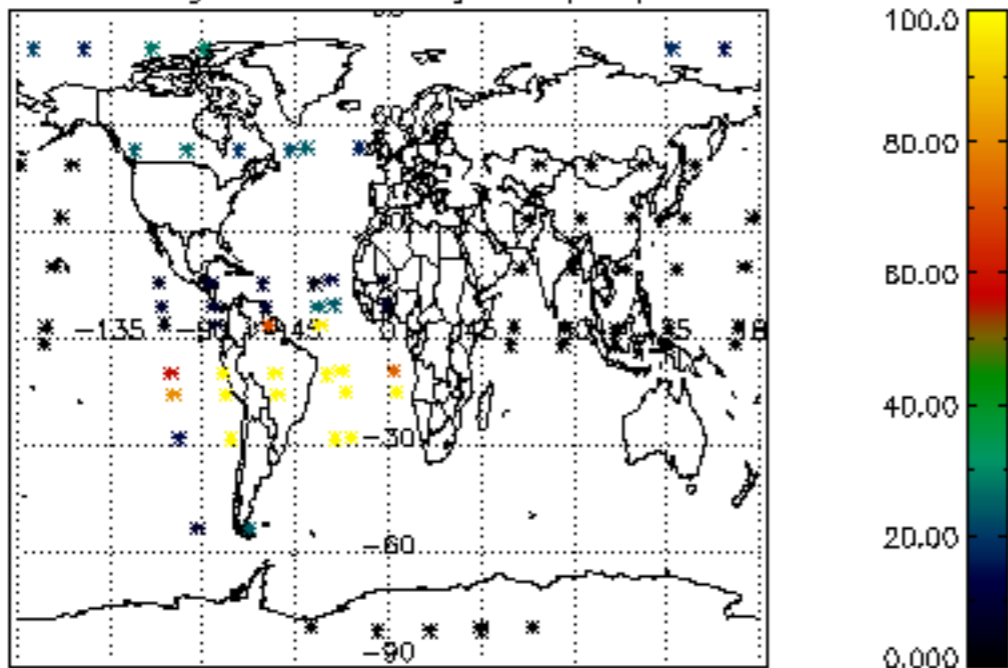




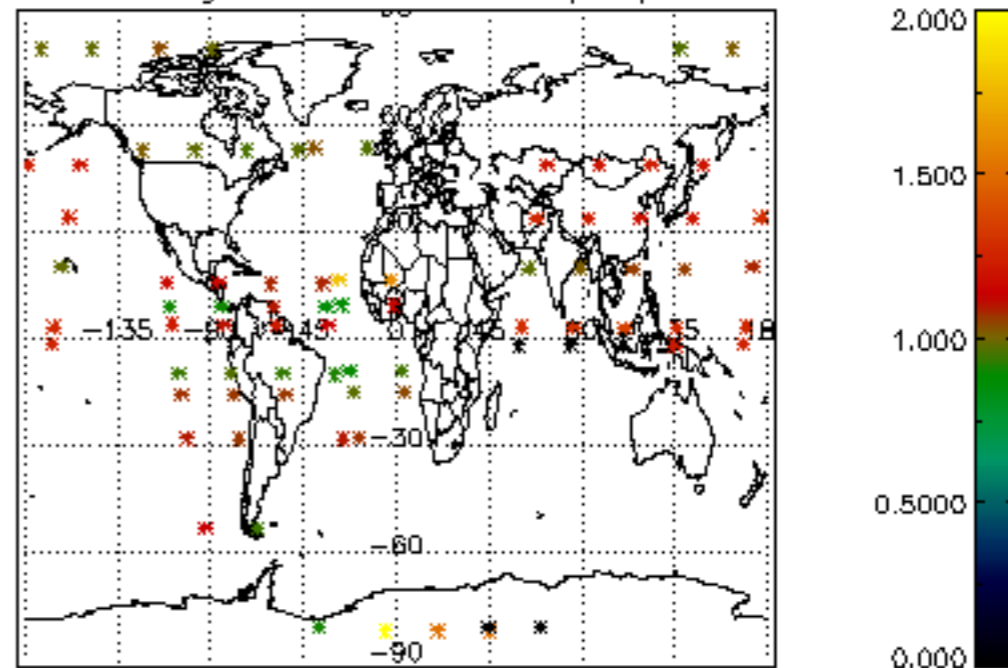




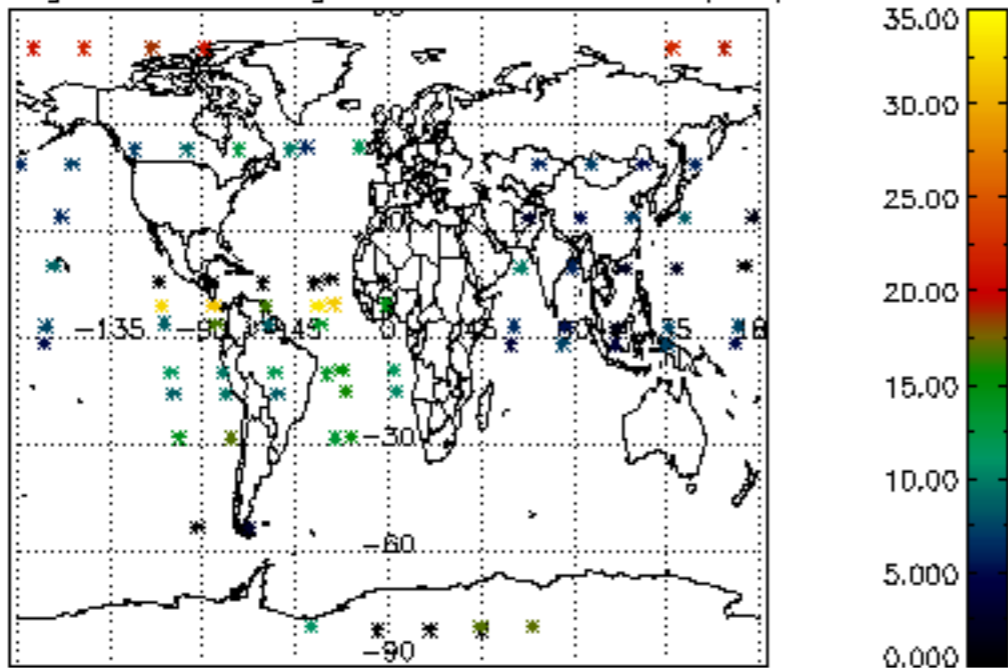
Percentage of cosmic ray hits per profile



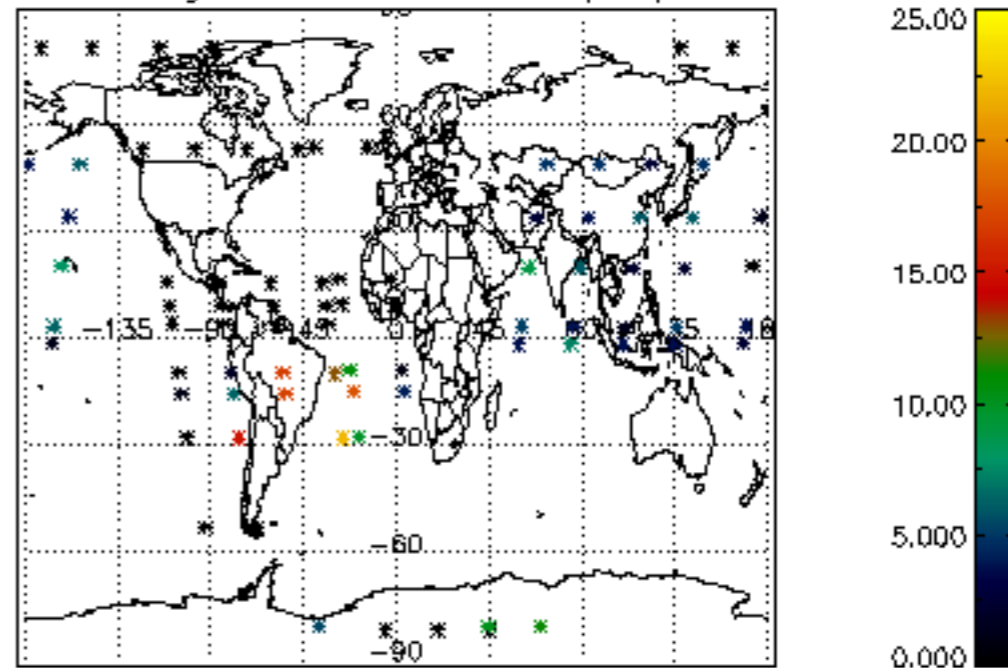
Percentage of datation errors per profile



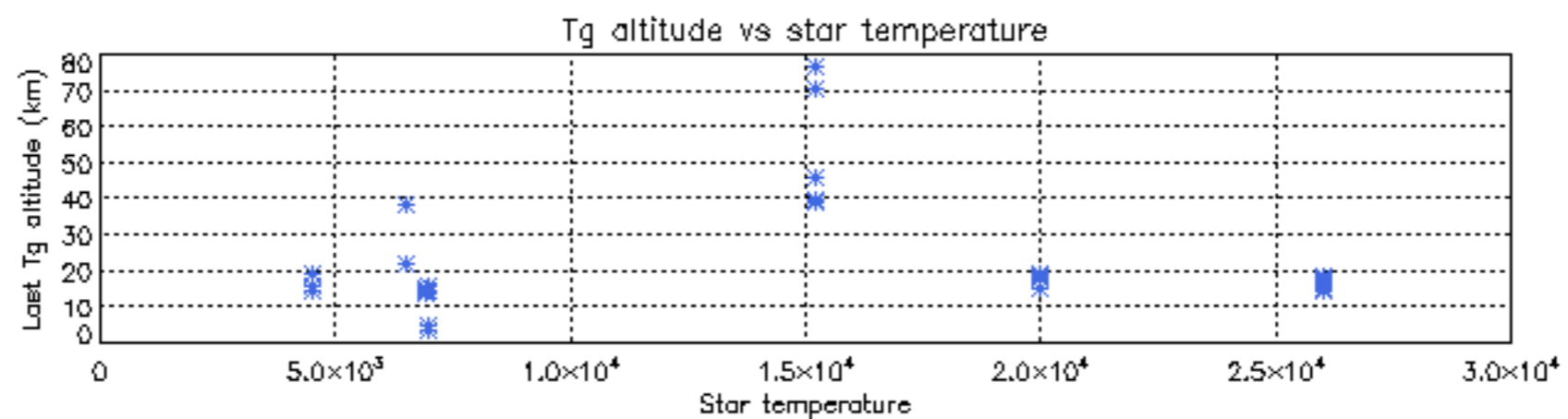
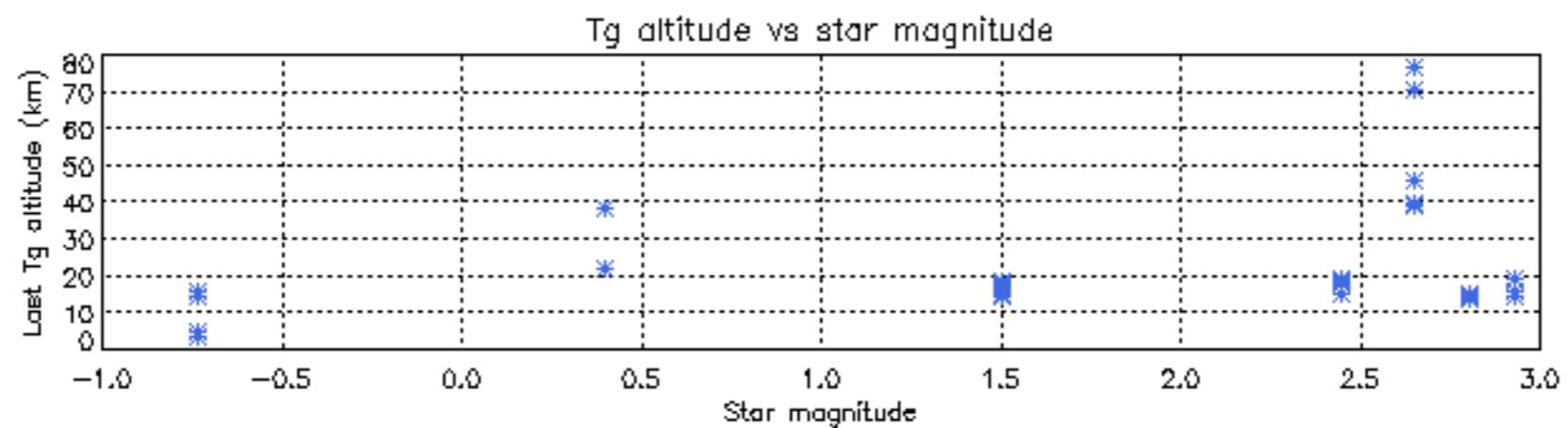
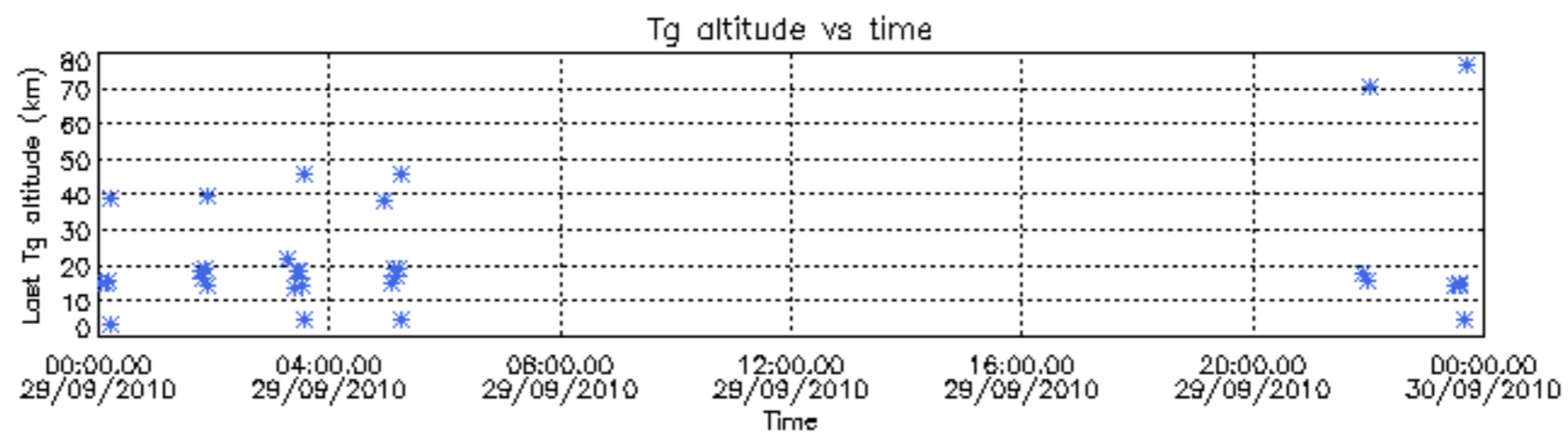
Percentage of star falling outside central band per profile



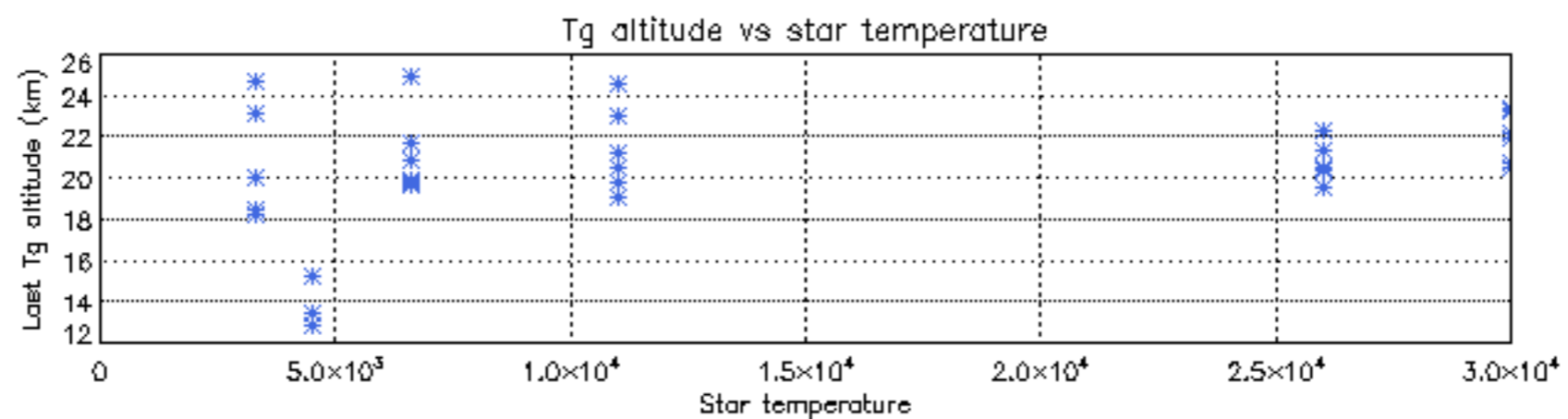
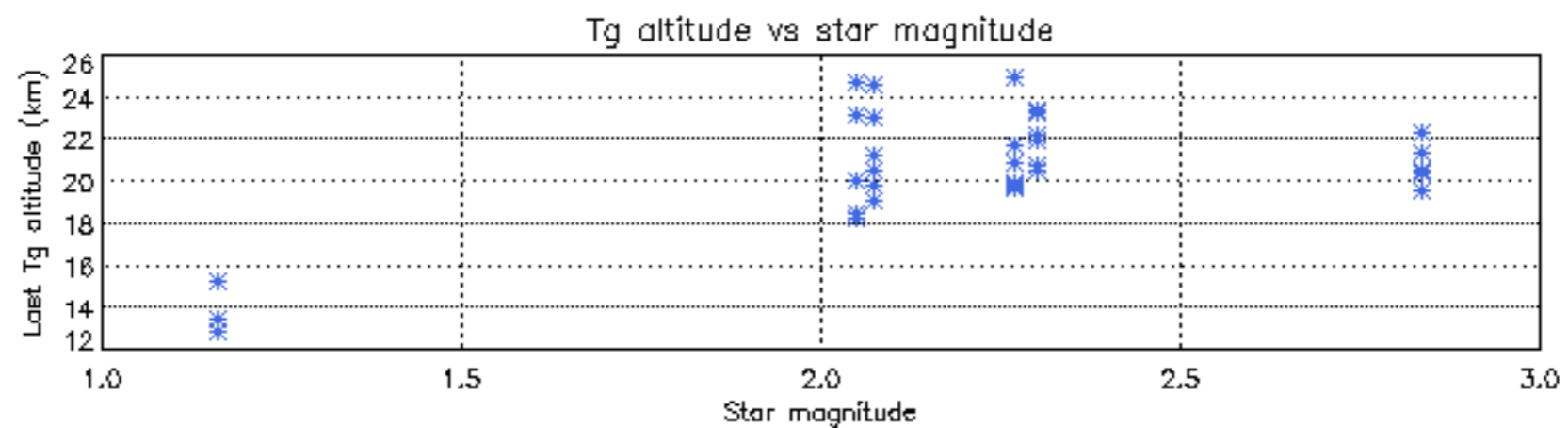
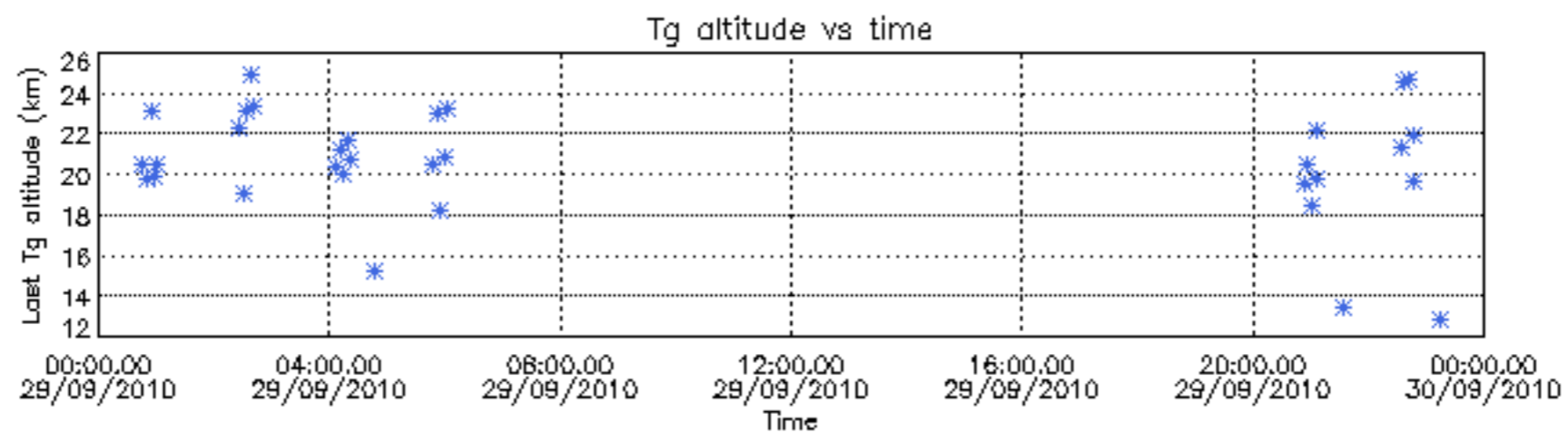
Percentage of saturation errors per profile

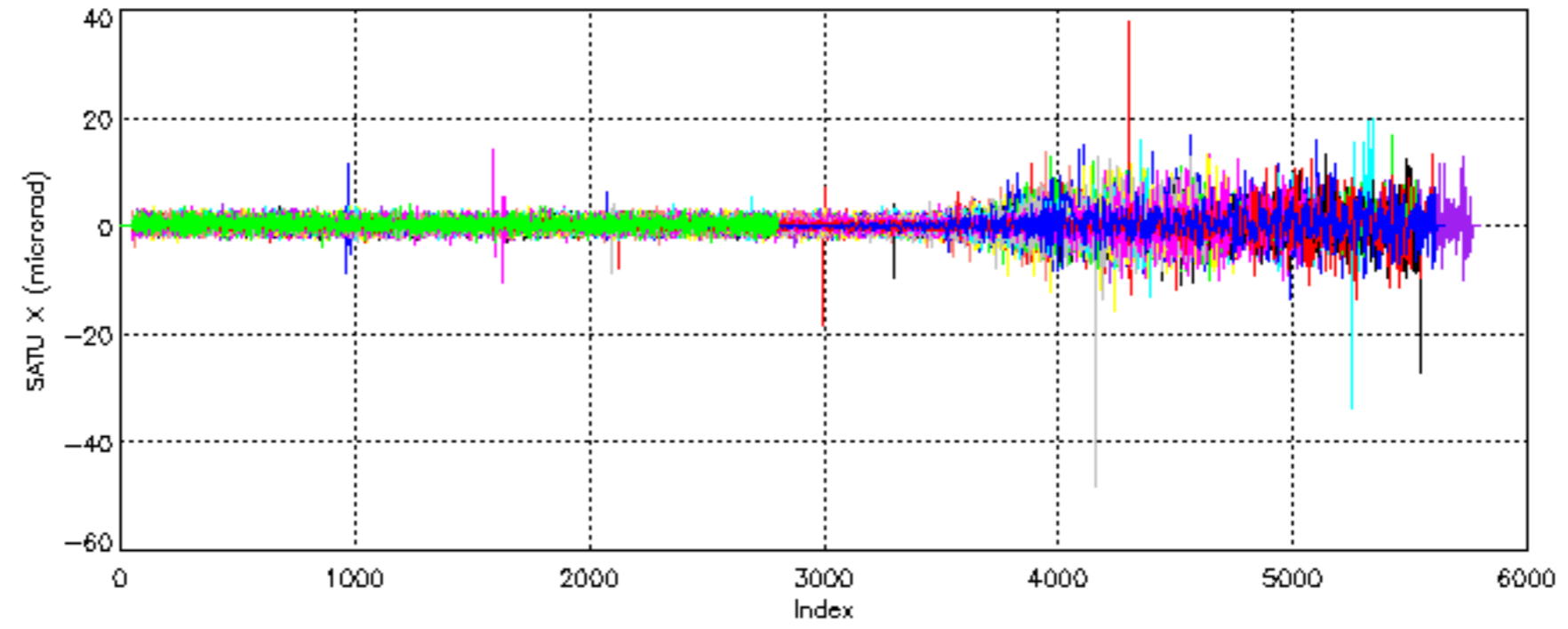


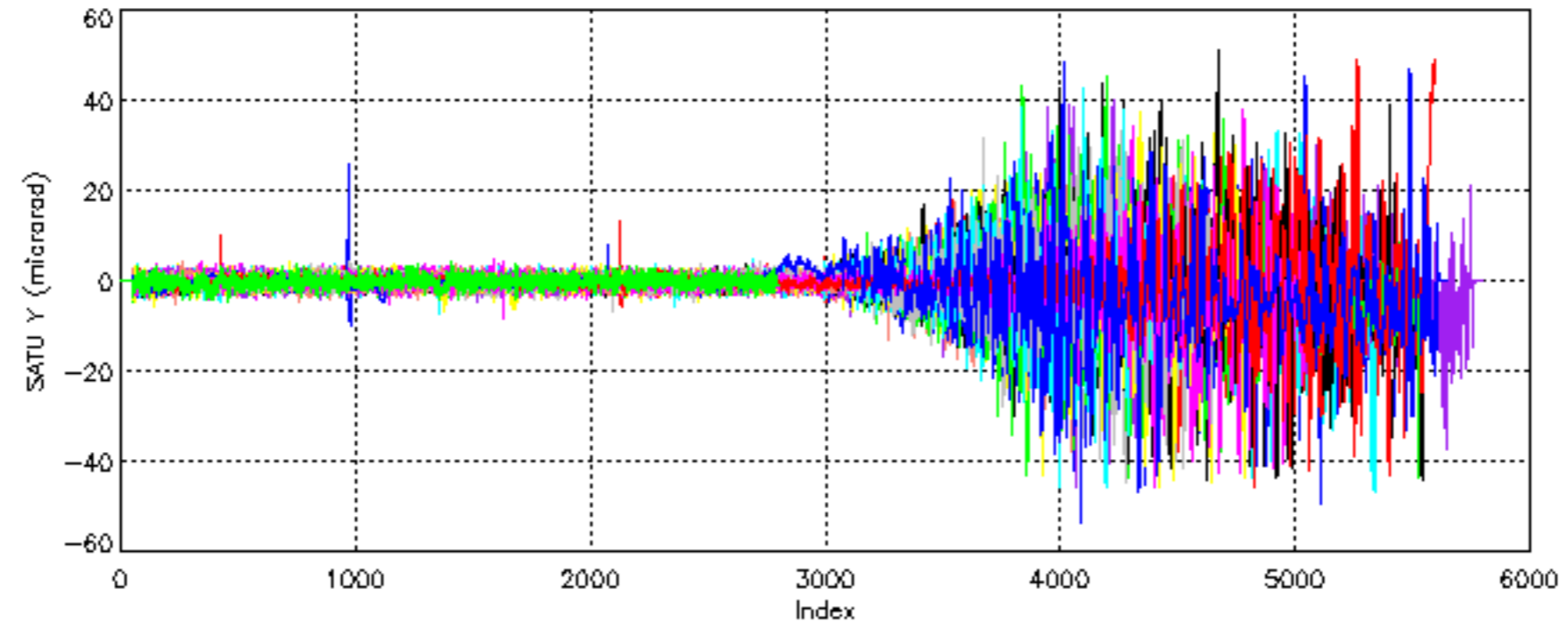
Tangent altitude at which the star is lost

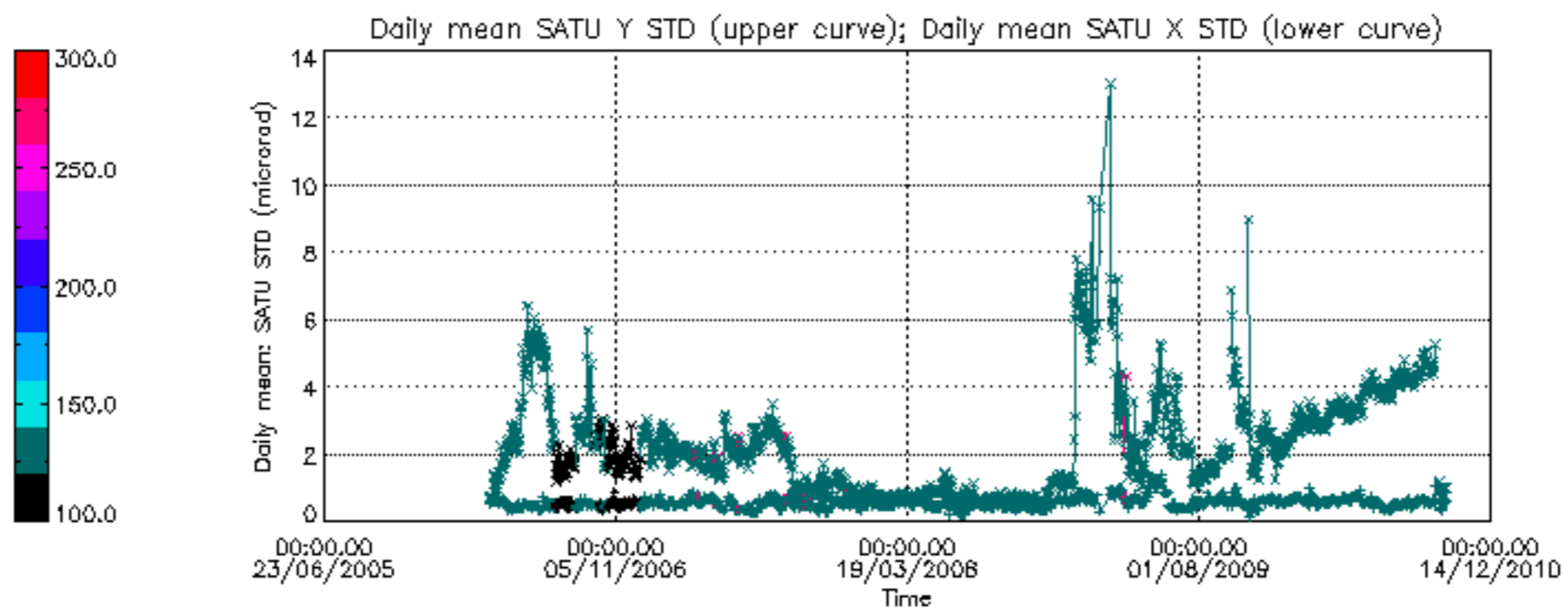


Tangent altitude at which the star is lost









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6; 4839.3; 08-SEP-2010 14:13:54; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44567
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6; 4191.7; 08-SEP-2010 15:43:43; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;44568

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 18; 7055.1; 08-SEP-2010 16:31:26; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;44569

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 5; 3199.9; 08-SEP-2010 17:07:47; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44569  
 6; 4191.5; 08-SEP-2010 17:24:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;44569  
 7; 4467.0; 08-SEP-2010 17:28:54; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44569  
 8; 4639.8; 08-SEP-2010 17:31:47; Dark ; 53.0; 170; 27Eps Gem ; 3.00; 9700;occ; 106; 0;44569  
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 10; 4952.9; 08-SEP-2010 17:37:00; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;44569  
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 17; 7055.5; 08-SEP-2010 18:12:02; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44570

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 3; 2458.6; 08-SEP-2010 18:36:02; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;44570  
 4; 3080.1; 08-SEP-2010 18:46:23; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44570  
 5; 3199.1; 08-SEP-2010 18:48:22; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;44570  
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 13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570  
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 15; 5918.3; 08-SEP-2010 19:33:41; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;44570  
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 4; 669.1; 09-SEP-2010 00:48:36; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44574  
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 8; 2457.2; 09-SEP-2010 01:18:24; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44574  
 9; 3077.9; 09-SEP-2010 01:28:44; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44574  
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 12; 4467.5; 09-SEP-2010 01:51:54; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44574  
 13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574  
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3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
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2; 2456.3; 09-SEP-2010 08:00:47; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44578
3; 3076.1; 09-SEP-2010 08:11:06; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;44578

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6; 4468.2; 09-SEP-2010 08:34:19; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;44578
7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
8; 4845.2; 09-SEP-2010 08:40:36; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44578
9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578
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11; 5608.3; 09-SEP-2010 08:53:19; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;44578
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13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578
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3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580
4; 3260.5; 09-SEP-2010 11:35:23; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;44580
5; 3391.3; 09-SEP-2010 11:37:33; Bright; 77.5; 73; 57Gam1And ; 2.26; 13100;occ; 155; 0;44580
6; 3593.4; 09-SEP-2010 11:40:55; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;44580
7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580
9; 4118.1; 09-SEP-2010 11:49:40; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44580
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11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580
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13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 0;44580
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4; 4116.7; 09-SEP-2010 18:32:03; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;44584
5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584
6; 5954.5; 09-SEP-2010 19:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44584
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3; 4116.1; 09-SEP-2010 20:12:38; Bright; 68.0; 6; 13Alp Aur ; 0.08; 3400;occ; 136; 0;44585
4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44585
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5; 1514.3; 10-SEP-2010 03:52:16; Dark ; 68.0; 52; 16Bet Cet ; 2.04; 4500;occ; 136; 0;44590
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3; 637.0; 10-SEP-2010 06:58:50; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;44592

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4; 5967.2; 10-SEP-2010 10:08:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44593
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6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
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10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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10; 5747.7; 16-SEP-2010 11:56:42; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;44680
11; 5909.2; 16-SEP-2010 11:59:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44680
12; 6061.2; 16-SEP-2010 12:01:55; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;44681
13; 6676.0; 16-SEP-2010 12:12:10; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44681
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15; 7105.4; 16-SEP-2010 12:19:20; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;44681
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 3; 3025.3; 16-SEP-2010 12:51:55; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44681
 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
 5; 4482.3; 16-SEP-2010 13:16:12; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;44681
 6; 5005.4; 16-SEP-2010 13:24:55; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44681
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 8; 5555.0; 16-SEP-2010 13:34:05; Dark ; 70.0; 1; 9Alp CMa ; -1.44; 11000;occ; 140; 0;44681
 9; 5670.8; 16-SEP-2010 13:36:01; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44681
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11; 5910.1; 16-SEP-2010 13:40:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44681
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13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
15; 7105.9; 16-SEP-2010 13:59:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44682
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 2; 2178.4; 16-SEP-2010 14:18:24; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;44682
 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
 4; 2533.0; 16-SEP-2010 14:24:19; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44682
 5; 3024.9; 16-SEP-2010 14:32:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44682
 6; 3132.1; 16-SEP-2010 14:34:18; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44682
 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
 8; 5006.1; 16-SEP-2010 15:05:32; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;44682
 9; 5451.7; 16-SEP-2010 15:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44682
10; 5556.3; 16-SEP-2010 15:14:42; Dark ; 71.0; 1; 9Alp CMa ; -1.44; 11000;occ; 142; 0;44682
11; 5687.7; 16-SEP-2010 15:16:54; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;44682
12; 5911.1; 16-SEP-2010 15:20:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44682
13; 6062.4; 16-SEP-2010 15:23:08; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44683
14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
16; 7106.1; 16-SEP-2010 15:40:32; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;44683
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 2; 2178.5; 16-SEP-2010 15:59:00; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;44683
 3; 2410.1; 16-SEP-2010 16:02:52; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44683
 4; 2532.4; 16-SEP-2010 16:04:54; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44683
 5; 3024.4; 16-SEP-2010 16:13:06; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44683

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7; 4482.5; 16-SEP-2010 16:37:24; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;44683  
8; 5006.5; 16-SEP-2010 16:46:08; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;44683  
9; 5452.2; 16-SEP-2010 16:53:34; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44683  
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11; 5688.5; 16-SEP-2010 16:57:30; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;44683  
12; 5912.1; 16-SEP-2010 17:01:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44683  
13; 6063.3; 16-SEP-2010 17:03:45; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44684  
14; 6677.9; 16-SEP-2010 17:14:00; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;44684  
15; 6763.4; 16-SEP-2010 17:15:25; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44684  
16; 7106.7; 16-SEP-2010 17:21:09; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;44684

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3; 2409.9; 16-SEP-2010 17:43:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44684  
4; 2531.6; 16-SEP-2010 17:45:30; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44684  
5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684  
6; 3131.0; 16-SEP-2010 17:55:29; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44684  
7; 4482.7; 16-SEP-2010 18:18:01; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;44684  
8; 5007.0; 16-SEP-2010 18:26:45; Dark ; 59.5; 8; 10Alp CMI ; 0.40; 6500;occ; 119; 0;44684  
9; 5452.6; 16-SEP-2010 18:34:11; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44684  
10; 5558.5; 16-SEP-2010 18:35:56; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;44684  
11; 5689.3; 16-SEP-2010 18:38:07; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44684  
12; 5913.1; 16-SEP-2010 18:41:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44684  
13; 6063.9; 16-SEP-2010 18:44:22; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44685  
14; 6678.1; 16-SEP-2010 18:54:36; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;44685  
15; 6764.0; 16-SEP-2010 18:56:02; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;44685

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2; -474.4; 16-SEP-2010 23:37:47; Dark ; 65.0; 1; 9Alp CMA ; -1.44; 11000;occ; 130; 0;44687  
3; -344.0; 16-SEP-2010 23:39:58; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;44687  
4; -120.1; 16-SEP-2010 23:43:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44687  
5; 29.4; 16-SEP-2010 23:46:11; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44688  
6; 643.3; 16-SEP-2010 23:56:25; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44688  
7; 729.2; 16-SEP-2010 23:57:51; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;44688  
8; 1072.3; 17-SEP-2010 00:03:34; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;44688  
9; 1529.0; 17-SEP-2010 00:11:10; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;44688  
10; 2177.6; 17-SEP-2010 00:21:59; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;44688  
11; 2408.8; 17-SEP-2010 00:25:50; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;44688  
12; 2528.9; 17-SEP-2010 00:27:50; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;44688  
13; 3022.1; 17-SEP-2010 00:36:04; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44688  
14; 3128.4; 17-SEP-2010 00:37:50; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44688  
15; 4483.0; 17-SEP-2010 01:00:25; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44688  
16; 5009.1; 17-SEP-2010 01:09:11; Dark ; 62.0; 8; 10Alp CMI ; 0.40; 6500;occ; 124; 0;44688

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3; 2178.0; 16-SEP-2010 19:20:12; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;44685  
4; 2409.6; 16-SEP-2010 19:24:03; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;44685  
5; 2530.9; 16-SEP-2010 19:26:05; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44685  
6; 3023.6; 16-SEP-2010 19:34:18; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44685  
7; 3130.4; 16-SEP-2010 19:36:04; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44685  
8; 4482.7; 16-SEP-2010 19:58:37; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;44685  
9; 5007.4; 16-SEP-2010 20:07:21; Dark ; 56.5; 8; 10Alp CMI ; 0.40; 6500;occ; 113; 0;44685  
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11; 5559.3; 16-SEP-2010 20:16:33; Dark ; 63.5; 1; 9Alp CMA ; -1.44; 11000;occ; 127; 0;44685  
12; 5690.1; 16-SEP-2010 20:18:44; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44685  
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15; 6678.7; 16-SEP-2010 20:35:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44686  
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6; 644.3; 17-SEP-2010 01:37:02; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;44689

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9; 1529.2; 17-SEP-2010 01:51:47; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;44689
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16; 5009.8; 17-SEP-2010 02:49:47; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;44689
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18; 5563.7; 17-SEP-2010 02:59:01; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;44689
19; 5693.6; 17-SEP-2010 03:01:11; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;44689
20; 5917.7; 17-SEP-2010 03:04:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44689
21; 6066.8; 17-SEP-2010 03:07:24; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44690
22; 6680.6; 17-SEP-2010 03:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;44690
23; 6766.3; 17-SEP-2010 03:19:04; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;44690
24; 7108.9; 17-SEP-2010 03:24:46; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44690
25; 7565.4; 17-SEP-2010 03:32:23; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;44690
26; 8213.2; 17-SEP-2010 03:43:11; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44690
27; 8444.4; 17-SEP-2010 03:47:02; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44690
28; 8563.5; 17-SEP-2010 03:49:01; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;44690
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3; -1552.5; 17-SEP-2010 04:21:37; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;44690
4; -1025.7; 17-SEP-2010 04:30:24; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44690
5; -580.4; 17-SEP-2010 04:37:49; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44690
6; -471.1; 17-SEP-2010 04:39:38; Dark ; 58.5; 1; 9Alp CMA ; -1.44; 11000;occ; 117; 0;44690
7; -341.5; 17-SEP-2010 04:41:48; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;44690
8; -117.3; 17-SEP-2010 04:45:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44690
9; 31.5; 17-SEP-2010 04:48:01; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44691
10; 645.2; 17-SEP-2010 04:58:14; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44691
11; 730.9; 17-SEP-2010 04:59:40; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44691
12; 1073.4; 17-SEP-2010 05:05:23; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44691
13; 1529.6; 17-SEP-2010 05:12:59; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;44691
14; 2177.3; 17-SEP-2010 05:23:47; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;44691
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16; 2526.9; 17-SEP-2010 05:29:36; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;44691
17; 3021.0; 17-SEP-2010 05:37:50; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44691
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2; -1025.1; 17-SEP-2010 06:11:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;44691
3; -580.1; 17-SEP-2010 06:18:25; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44691
4; -470.1; 17-SEP-2010 06:20:15; Dark ; 65.0; 1; 9Alp CMA ; -1.44; 11000;occ; 130; 0;44691
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3; 2483.3; 22-SEP-2010 12:54:22; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44767
4; 2990.3; 22-SEP-2010 13:02:49; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44767
5; 3087.0; 22-SEP-2010 13:04:26; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44767
6; 4494.1; 22-SEP-2010 13:27:53; Bright; 50.0; 24; 66Alp Gem ; 1.58; 10200;occ; 100; 0;44767
7; 5058.0; 22-SEP-2010 13:37:17; Dark ; 62.0; 8; 10Alp CMI ; 0.40; 6500;occ; 124; 0;44767
8; 5498.3; 22-SEP-2010 13:44:37; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44767
9; 5697.3; 22-SEP-2010 13:47:56; Dark ; 51.5; 37; 25Del CMA ; 1.83; 5900;occ; 103; 0;44767
10; 5809.8; 22-SEP-2010 13:49:49; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;44767
11; 5995.4; 22-SEP-2010 13:52:54; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44767
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5; 2990.0; 22-SEP-2010 14:43:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44768
6; 3086.7; 22-SEP-2010 14:45:02; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44768
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9; 5498.8; 22-SEP-2010 15:25:14; Dark ; 39.5; 132; 15Rho Pup ; 2.80; 6900;occ; 79; 0;44768
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11; 5810.6; 22-SEP-2010 15:30:25; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;44768
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3; 2393.7; 22-SEP-2010 16:14:05; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44769
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6; 3086.1; 22-SEP-2010 16:25:37; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44769
7; 4494.4; 22-SEP-2010 16:49:05; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44769
8; 5059.4; 22-SEP-2010 16:58:30; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;44769
9; 5499.4; 22-SEP-2010 17:05:50; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44769
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12; 5997.6; 22-SEP-2010 17:14:08; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44769
13; 6119.3; 22-SEP-2010 17:16:10; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;44770
14; 6804.3; 22-SEP-2010 17:27:35; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44770
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3; 2168.5; 22-SEP-2010 17:50:55; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44770
4; 2393.6; 22-SEP-2010 17:54:40; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;44770
5; 2482.0; 22-SEP-2010 17:56:09; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;44770
6; 2989.3; 22-SEP-2010 18:04:36; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44770
7; 3085.7; 22-SEP-2010 18:06:12; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44770
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9; 5060.1; 22-SEP-2010 18:39:07; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44770
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13; 5998.6; 22-SEP-2010 18:54:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44770
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 3; 2168.5; 22-SEP-2010 19:31:31; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44771
 4; 2393.5; 22-SEP-2010 19:35:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44771
 5; 2481.4; 22-SEP-2010 19:36:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44771
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 7; 3085.1; 22-SEP-2010 19:46:48; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44771
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 9; 5060.7; 22-SEP-2010 20:19:43; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44771
10; 5500.6; 22-SEP-2010 20:27:03; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44771
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12; 5812.7; 22-SEP-2010 20:32:16; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;44771
13; 5999.6; 22-SEP-2010 20:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44771
14; 6120.3; 22-SEP-2010 20:37:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44772
15; 6805.0; 22-SEP-2010 20:48:48; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44772
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 3; -220.7; 23-SEP-2010 01:34:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;44774
 4; -33.2; 23-SEP-2010 01:37:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44774
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 6; 770.4; 23-SEP-2010 01:50:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44775
 7; 1104.5; 23-SEP-2010 01:56:11; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;44775
 8; 1541.3; 23-SEP-2010 02:03:28; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44775
 9; 2167.9; 23-SEP-2010 02:13:54; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44775
10; 2392.9; 23-SEP-2010 02:17:39; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44775
11; 2479.5; 23-SEP-2010 02:19:06; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44775
12; 2987.5; 23-SEP-2010 02:27:34; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44775
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 4; -330.9; 23-SEP-2010 03:12:51; Dark ; 49.0; 37; 25Del CMA ; 1.83; 5900;occ; 98; 0;44775
 5; -219.9; 23-SEP-2010 03:14:42; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44775
 6; -32.1; 23-SEP-2010 03:17:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44775
 7; 87.3; 23-SEP-2010 03:19:49; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44776
 8; 771.0; 23-SEP-2010 03:31:13; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44776
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10; 1541.6; 23-SEP-2010 03:44:04; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44776
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 5; -260.4; 23-SEP-2010 04:54:38; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44776
 6; -121.5; 23-SEP-2010 04:56:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44776
 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
 8; 87.9; 23-SEP-2010 05:00:26; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;44777
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13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
16; 3082.2; 23-SEP-2010 05:50:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44777

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2;	2167.7;	23-SEP-2010	15:38:41;	Bright;	;	38.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	77;	0;	44783
3;	2392.2;	23-SEP-2010	15:42:26;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	44783
4;	2475.7;	23-SEP-2010	15:43:49;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44783
5;	2984.7;	23-SEP-2010	15:52:18;	Bright;	;	37.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	75;	0;	44783
6;	3079.6;	23-SEP-2010	15:53:53;	Bright;	;	41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	44783
7;	4496.5;	23-SEP-2010	16:17:30;	Bright;	;	47.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	95;	0;	44783
8;	5069.5;	23-SEP-2010	16:27:03;	Dark	;	69.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	138;	0;	44783
9;	5508.2;	23-SEP-2010	16:34:22;	Dark	;	40.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	81;	0;	44783
10;	5681.4;	23-SEP-2010	16:37:15;	Dark	;	67.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	134;	0;	44783
11;	5782.9;	23-SEP-2010	16:38:56;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	44783
12;	5919.0;	23-SEP-2010	16:41:13;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44783
13;	6046.0;	23-SEP-2010	16:43:20;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44784
14;	6183.2;	23-SEP-2010	16:45:37;	Dark	;	54.0;	108;	Alp	Col	;	2.65;	15200;	occ;	108;	0;	44784
15;	6864.6;	23-SEP-2010	16:56:58;	Dark	;	51.5;	157;	The1Eri		;	2.91;	9300;	occ;	103;	0;	44784
16;	7143.8;	23-SEP-2010	17:01:37;	Dark	;	45.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	90;	0;	44784

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2;	2167.8;	23-SEP-2010	17:19:17;	Bright;	;	38.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	76;	0;	44784
3;	2391.8;	23-SEP-2010	17:23:01;	Bright;	;	40.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	81;	0;	44784
4;	2475.3;	23-SEP-2010	17:24:25;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44784
5;	2984.2;	23-SEP-2010	17:32:54;	Bright;	;	40.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	81;	0;	44784
6;	3079.0;	23-SEP-2010	17:34:29;	Bright;	;	40.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	81;	0;	44784
7;	4496.5;	23-SEP-2010	17:58:06;	Bright;	;	49.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	99;	0;	44784
8;	5070.1;	23-SEP-2010	18:07:40;	Dark	;	63.5;	8;	10Alp	CMI	;	0.40;	6500;	occ;	127;	0;	44784
9;	5508.9;	23-SEP-2010	18:14:58;	Dark	;	42.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	84;	0;	44784
10;	5682.8;	23-SEP-2010	18:17:52;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44784
11;	5783.8;	23-SEP-2010	18:19:33;	Dark	;	54.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	108;	0;	44784
12;	5919.7;	23-SEP-2010	18:21:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44784
13;	6046.8;	23-SEP-2010	18:23:56;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44785
14;	6184.6;	23-SEP-2010	18:26:14;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44785
15;	6865.4;	23-SEP-2010	18:37:35;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44785
16;	7144.0;	23-SEP-2010	18:42:14;	Dark	;	16.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	32;	0;	44785

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1;	1108.0;	23-SEP-2010	18:42:14;	Dark	;	45.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	91;	0;	44785
2;	1542.9;	23-SEP-2010	18:49:28;	Dark	;	53.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	107;	0;	44785
3;	2167.5;	23-SEP-2010	18:59:53;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44785
4;	2391.7;	23-SEP-2010	19:03:37;	Bright;	;	38.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	76;	0;	44785
5;	2474.9;	23-SEP-2010	19:05:00;	Bright;	;	42.0;	58;	21Alp	And	;	2.07;	11000;	occ;	84;	0;	44785
6;	2984.0;	23-SEP-2010	19:13:30;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	44785
7;	3078.3;	23-SEP-2010	19:15:04;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44785
8;	4496.8;	23-SEP-2010	19:38:42;	Bright;	;	48.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	97;	0;	44785
9;	5070.8;	23-SEP-2010	19:48:16;	Dark	;	71.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	142;	0;	44785
10;	5509.3;	23-SEP-2010	19:55:35;	Dark	;	41.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	83;	0;	44785
11;	5683.9;	23-SEP-2010	19:58:29;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44785
12;	5784.9;	23-SEP-2010	20:00:10;	Dark	;	49.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	98;	0;	44785
13;	5920.3;	23-SEP-2010	20:02:26;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44785
14;	6047.4;	23-SEP-2010	20:04:33;	Dark	;	51.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	102;	0;	44786
15;	6185.8;	23-SEP-2010	20:06:51;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44786
16;	6866.3;	23-SEP-2010	20:18:12;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44786

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1;	1544.8;	24-SEP-2010	19:58:29;	Dark	;	53.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	106;	0;	44800
2;	2166.8;	24-SEP-2010	20:08:51;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44800
3;	2390.0;	24-SEP-2010	20:12:34;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	44800
4;	2978.5;	24-SEP-2010	20:22:23;	Bright;	;	41.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	82;	0;	44800
5;	3071.1;	24-SEP-2010	20:23:55;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44800
6;	4498.7;	24-SEP-2010	20:47:43;	Bright;	;	51.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	102;	0;	44800

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1;	-953.9;	24-SEP-2010	20:57:26;	Dark	;	73.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	146;	0;	44800
2;	-516.9;	24-SEP-2010	21:04:43;	Dark	;	45.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	90;	0;	44800
3;	-321.7;	24-SEP-2010	21:07:59;	Dark	;	43.0;	88;	31Eta	CMA	;	2.45;	20000;	occ;	86;	0;	44800
4;	-235.2;	24-SEP-2010	21:09:25;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	44800
5;	-105.9;	24-SEP-2010	21:11:34;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44800
6;	171.0;	24-SEP-2010	21:16:11;	Dark	;	56.5;	108;	Alp	Col	;	2.65;	15200;	occ;	113;	0;	44801
7;	842.9;	24-SEP-2010	21:27:23;	Dark	;	53.0;	157;	The1Eri		;	2.91;	9300;	occ;	106;	0;	44801
8;	1544.9;	24-SEP-2010	21:39:05;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44801
9;	2166.6;	24-SEP-2010	21:49:27;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44801



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10; 2389.9; 24-SEP-2010 21:53:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44801
11; 2978.1; 24-SEP-2010 22:02:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44801
12; 3070.6; 24-SEP-2010 22:04:31; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44801
13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
14; 5082.6; 24-SEP-2010 22:38:03; Dark ; 61.5; 8; 10Alp CMi ; 0.40; 6500;occ; 123; 0;44801
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 1; -320.9; 24-SEP-2010 22:48:35; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;44801
 2; -234.4; 24-SEP-2010 22:50:02; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;44801
 3; -105.2; 24-SEP-2010 22:52:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44801
 4; 172.6; 24-SEP-2010 22:56:49; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;44802
 5; 843.7; 24-SEP-2010 23:08:00; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44802
 6; 1544.9; 24-SEP-2010 23:19:41; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44802
 7; 2210.3; 24-SEP-2010 23:30:46; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;44802
 8; 2389.7; 24-SEP-2010 23:33:46; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44802
 9; 2977.7; 24-SEP-2010 23:43:34; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44802
10; 3070.2; 24-SEP-2010 23:45:06; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44802
11; 4498.9; 25-SEP-2010 00:08:55; Bright; 71.0; 24; 66Alp Gem ; 1.58; 10200;occ; 142; 0;44802
12; 5083.3; 25-SEP-2010 00:18:39; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44802
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 1; -1538.2; 24-SEP-2010 07:22:55; Bright; 52.0; 24; 66Alp Gem ; 1.58; 10200;occ; 104; 0;44792
 2; -960.0; 24-SEP-2010 07:32:33; Dark ; 67.0; 8; 10Alp CMi ; 0.40; 6500;occ; 134; 0;44792
 3; -522.2; 24-SEP-2010 07:39:51; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44792
 4; -341.9; 24-SEP-2010 07:42:51; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44792
 5; -243.9; 24-SEP-2010 07:44:29; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;44792
 6; -111.1; 24-SEP-2010 07:46:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44792
 7; 16.1; 24-SEP-2010 07:48:49; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44793
 8; 159.9; 24-SEP-2010 07:51:13; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;44793
 9; 836.4; 24-SEP-2010 08:02:29; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;44793
10; 1543.9; 24-SEP-2010 08:14:17; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44793
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 1; 2167.1; 24-SEP-2010 08:24:40; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44793
 2; 2391.0; 24-SEP-2010 08:28:24; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44793
 3; 2471.0; 24-SEP-2010 08:29:44; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44793
 4; 2981.1; 24-SEP-2010 08:38:14; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44793
 5; 3074.6; 24-SEP-2010 08:39:47; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44793
 6; 4497.9; 24-SEP-2010 09:03:31; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44793
 7; 5076.7; 24-SEP-2010 09:13:10; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44793
 8; 5514.5; 24-SEP-2010 09:20:27; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44793
 9; 5695.5; 24-SEP-2010 09:23:28; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44793
10; 5793.1; 24-SEP-2010 09:25:06; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;44793
11; 5925.5; 24-SEP-2010 09:27:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44793
12; 6052.7; 24-SEP-2010 09:29:26; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;44794
13; 6197.1; 24-SEP-2010 09:31:50; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;44794
14; 6873.2; 24-SEP-2010 09:43:06; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44794
15; 7579.9; 24-SEP-2010 09:54:53; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;44794
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 1; 2167.1; 24-SEP-2010 10:05:16; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44794
 2; 2390.8; 24-SEP-2010 10:09:00; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;44794
 3; 2470.6; 24-SEP-2010 10:10:19; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;44794
 4; 2980.6; 24-SEP-2010 10:18:49; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44794
 5; 3074.0; 24-SEP-2010 10:20:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44794
 6; 4498.1; 24-SEP-2010 10:44:07; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44794
 7; 5077.4; 24-SEP-2010 10:53:46; Dark ; 61.0; 8; 10Alp CMi ; 0.40; 6500;occ; 122; 0;44794
 8; 5515.2; 24-SEP-2010 11:01:04; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44794
 9; 5696.9; 24-SEP-2010 11:04:06; Dark ; 30.0; 1; 9Alp CMA ; -1.44; 11000;occ; 60; 0;44794
10; 5794.3; 24-SEP-2010 11:05:43; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;44794
11; 5926.1; 24-SEP-2010 11:07:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44794
12; 6053.3; 24-SEP-2010 11:10:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44795
13; 6198.6; 24-SEP-2010 11:12:27; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44795
14; 6873.9; 24-SEP-2010 11:23:43; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44795
15; 7579.9; 24-SEP-2010 11:35:29; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44795
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 1; 2167.0; 24-SEP-2010 11:45:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44795
 2; 2390.8; 24-SEP-2010 11:49:35; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44795
 3; 2470.0; 24-SEP-2010 11:50:55; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;44795
 4; 2980.2; 24-SEP-2010 11:59:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44795
 5; 3073.6; 24-SEP-2010 12:00:58; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44795
 6; 4498.1; 24-SEP-2010 12:24:43; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44795

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7; 5078.1; 24-SEP-2010 12:34:23; Dark ; 68.0; 8; 10Alp CMI ; 0.40; 6500;occ; 136; 0;44795
8; 5515.9; 24-SEP-2010 12:41:41; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44795
9; 5698.3; 24-SEP-2010 12:44:43; Dark ; 30.0; 1; 9Alp CMA ; -1.44; 11000;occ; 60; 0;44795
10; 5795.3; 24-SEP-2010 12:46:20; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;44795
11; 5926.7; 24-SEP-2010 12:48:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44795
12; 6053.9; 24-SEP-2010 12:50:39; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44796
13; 6199.9; 24-SEP-2010 12:53:05; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44796
14; 6874.8; 24-SEP-2010 13:04:19; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44796
15; 7580.2; 24-SEP-2010 13:16:05; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;44796
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1; 1544.4; 24-SEP-2010 13:16:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44796
2; 2167.1; 24-SEP-2010 13:26:28; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;44796
3; 2980.0; 24-SEP-2010 13:40:00; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44796
4; 3073.1; 24-SEP-2010 13:41:34; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44796
5; 4498.3; 24-SEP-2010 14:05:19; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44796
6; 5078.9; 24-SEP-2010 14:14:59; Dark ; 68.5; 8; 10Alp CMI ; 0.40; 6500;occ; 137; 0;44796
7; 5516.5; 24-SEP-2010 14:22:17; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44796
8; 5710.7; 24-SEP-2010 14:25:31; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;44796
9; 5796.5; 24-SEP-2010 14:26:57; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;44796
10; 5927.4; 24-SEP-2010 14:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44796
11; 6054.7; 24-SEP-2010 14:31:15; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;44797
12; 6201.5; 24-SEP-2010 14:33:42; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44797
13; 6875.8; 24-SEP-2010 14:44:56; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44797
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1; 1544.4; 24-SEP-2010 14:56:41; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;44797
2; 2167.1; 24-SEP-2010 15:07:03; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44797
3; 2979.8; 24-SEP-2010 15:20:36; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44797
4; 3072.8; 24-SEP-2010 15:22:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44797
5; 4498.5; 24-SEP-2010 15:45:55; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44797
6; 5079.8; 24-SEP-2010 15:55:36; Dark ; 71.5; 8; 10Alp CMI ; 0.40; 6500;occ; 143; 0;44797
7; 5517.2; 24-SEP-2010 16:02:54; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44797
8; 5711.6; 24-SEP-2010 16:06:08; Dark ; 44.5; 88; 31Eta CMA ; 2.45; 20000;occ; 89; 0;44797
9; 5797.6; 24-SEP-2010 16:07:34; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 0;44797
10; 5928.2; 24-SEP-2010 16:09:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44797
11; 6055.4; 24-SEP-2010 16:11:52; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44798
12; 6203.1; 24-SEP-2010 16:14:19; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;44798
13; 6876.6; 24-SEP-2010 16:25:33; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44798
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2; 2167.0; 24-SEP-2010 16:47:39; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44798
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 4; 2974.6; 25-SEP-2010 16:29:30; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44812
 5; 3065.8; 25-SEP-2010 16:31:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44812
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 7; 5091.4; 25-SEP-2010 17:04:47; Dark ; 70.0; 8; 10Alp CMi ; 0.40; 6500;occ; 140; 0;44812
 8; 5527.3; 25-SEP-2010 17:12:02; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44812
 9; 5725.3; 25-SEP-2010 17:15:20; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;44812
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13; 6224.4; 25-SEP-2010 17:23:40; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44813
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13; 6226.0; 25-SEP-2010 19:04:17; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;44814
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 4; 2973.9; 25-SEP-2010 19:50:41; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44814
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 5; 31.7; 25-SEP-2010 22:22:51; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44816
 6; 193.0; 25-SEP-2010 22:25:32; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44816
 7; 855.5; 25-SEP-2010 22:36:35; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44816
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 9; 2205.5; 25-SEP-2010 22:59:05; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44816

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4; 2685.6; 28-SEP-2010 21:32:13; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;44858
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19; 6317.0; 30-SEP-2010 03:02:55; Dark ; 26.0; 108; Alp Col ; 2.65; 15200;occ; 52; 0;44876
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7; 4511.6; 30-SEP-2010 20:59:25; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;44886
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7; 911.4; 30-SEP-2010 21:40:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44887
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13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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4; -131.7; 30-SEP-2010 07:57:50; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;44878
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3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
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15; 6945.8; 30-SEP-2010 18:18:47; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44885
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100930_182934_000054392093_00242_44885_2578.N1
1; 1556.4; 30-SEP-2010 18:29:34; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;44885
2; 2186.8; 30-SEP-2010 18:40:04; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44885
3; 2437.0; 30-SEP-2010 18:44:14; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44885
4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
5; 2952.9; 30-SEP-2010 18:52:50; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44885

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6;	3034.3;	30-SEP-2010	18:54:12;	Bright;	40.5;	76;	27Gam Cas	;	2.30;	30000;occ;	81;	0;44885	
7;	4511.6;	30-SEP-2010	19:18:49;	Bright;	53.0;	24;	66Alp Gem	;	1.58;	10200;occ;	106;	0;44885	
8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
9;	5156.9;	30-SEP-2010	19:29:34;	Dark	;	54.0;	8;	10Alp CMi	;	0.40;	6500;occ;	108;	0;44885
10;	5581.2;	30-SEP-2010	19:36:39;	Dark	;	48.0;	132;	15Rho Pup	;	2.80;	6900;occ;	96;	0;44885
11;	5827.5;	30-SEP-2010	19:40:45;	Dark	;	62.5;	37;	25Del CMa	;	1.83;	5900;occ;	125;	0;44885
12;	5989.6;	30-SEP-2010	19:43:27;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;44885
13;	6202.1;	30-SEP-2010	19:46:59;	Dark	;	56.0;	2;	Alp Car	;	-0.74;	7000;occ;	112;	0;44886
14;	6331.9;	30-SEP-2010	19:49:09;	Dark	;	59.0;	108;	Alp Col	;	2.65;	15200;occ;	118;	0;44886
15;	6946.5;	30-SEP-2010	19:59:24;	Dark	;	49.5;	157;	The1Eri	;	2.91;	9300;occ;	99;	0;44886