

# GOMOS Daily Report 02-SEP-2010

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	05SEP2010 04:49:18
Data source version	GOMOS/5.01
Start time of products	02SEP2010 00:06:33
Stop time of products	02SEP2010 23:58:20
Store outputs in DB	Yes
Nb of level 1b prods	129
Nb of prods with errors	0

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

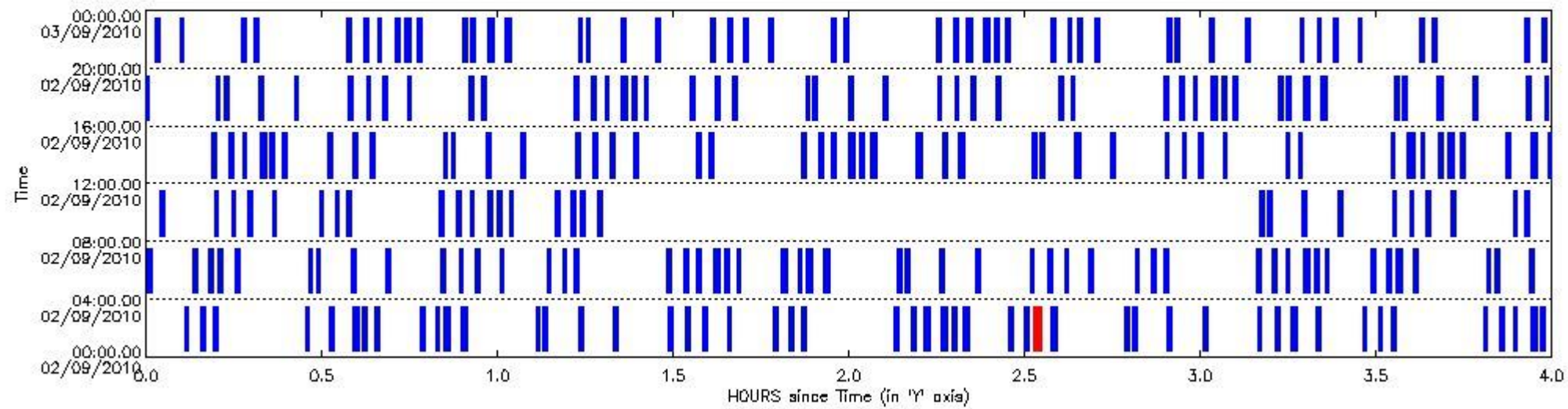
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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-2010 02:31:38	11AlpLep	101	44474

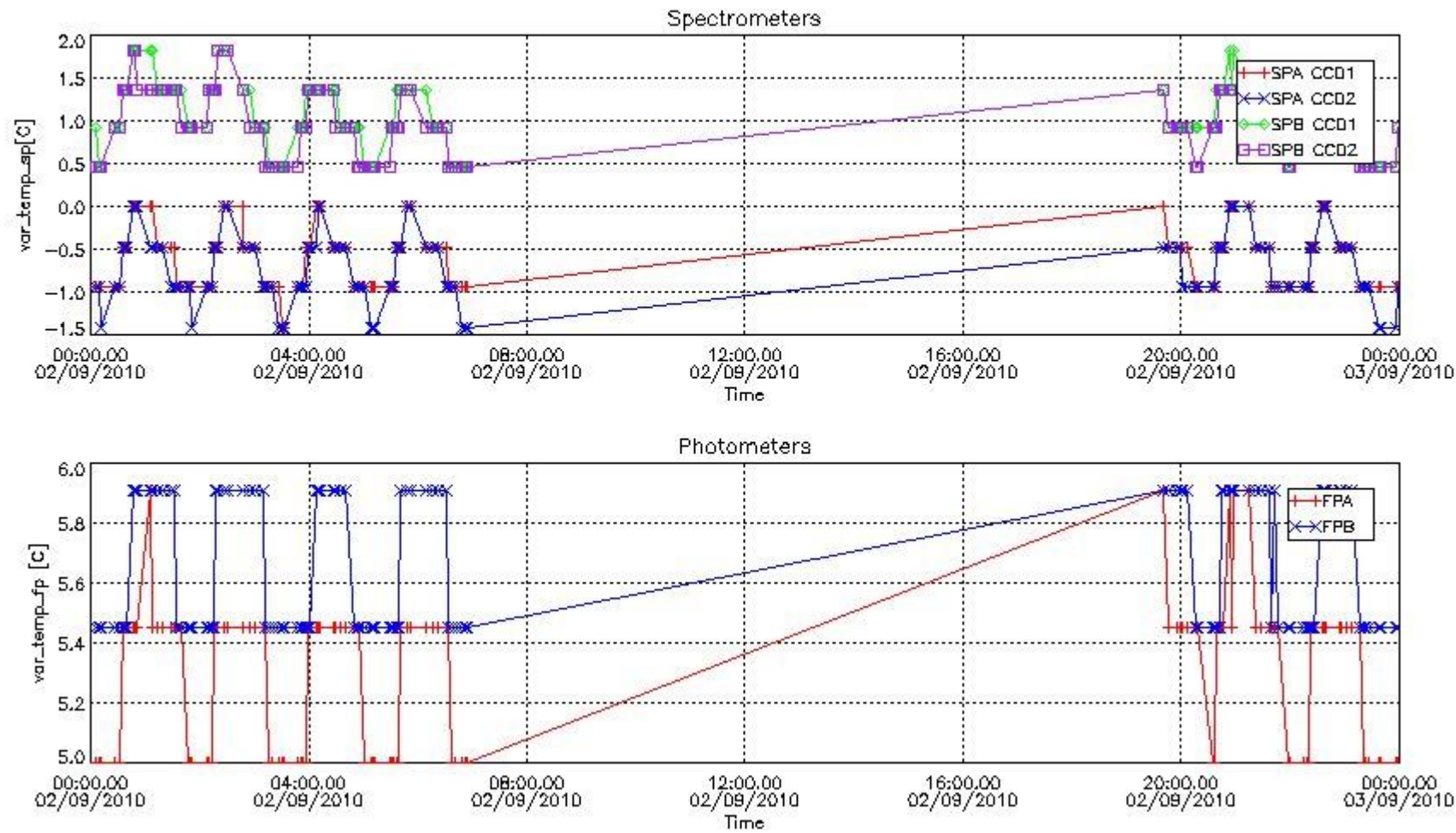
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100902_000633_000000392092_00331_44473_0211.N1	02-SEP-2010 00:06:33	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	44473	No
2	GOM_TRA_1PNPDE20100902_000915_000000442092_00331_44473_0212.N1	02-SEP-2010 00:09:15	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	44473	No
3	GOM_TRA_1PNPDE20100902_001122_000000482092_00331_44473_0213.N1	02-SEP-2010 00:11:22	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	44473	No
4	GOM_TRA_1PNPDE20100902_002705_000000472092_00331_44473_0214.N1	02-SEP-2010 00:27:05	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	44473	No
5	GOM_TRA_1PNPDE20100902_003112_000000472092_00331_44473_0215.N1	02-SEP-2010 00:31:12	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	44473	No
6	GOM_TRA_1PNPDE20100902_003508_000000652092_00331_44473_0216.N1	02-SEP-2010 00:35:08	Twilight	64.500	151	13Mu Gem	2.8900	3000.0	129	44473	No
7	GOM_TRA_1PNPDE20100902_003655_000000532092_00331_44473_0217.N1	02-SEP-2010 00:36:55	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	44473	No
8	GOM_TRA_1PNPDE20100902_003856_000000462092_00331_44473_0218.N1	02-SEP-2010 00:38:56	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	44473	No
9	GOM_TRA_1PNPDE20100902_004639_000000512092_00331_44473_0228.N1	02-SEP-2010 00:46:39	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	44473	No
10	GOM_TRA_1PNPDE20100902_004923_000000442092_00331_44473_0229.N1	02-SEP-2010 00:49:23	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	44473	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).

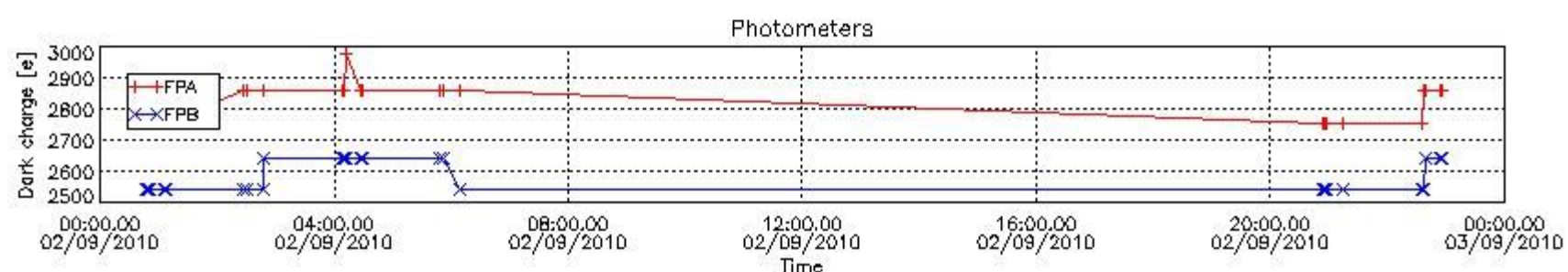
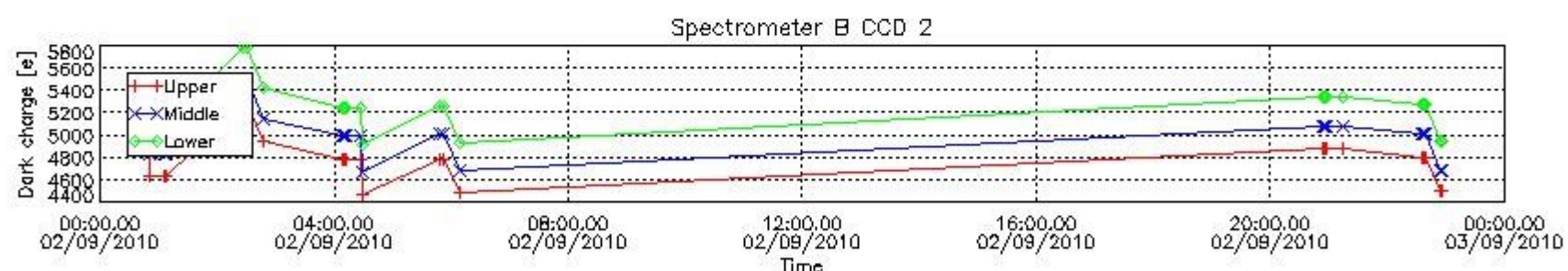
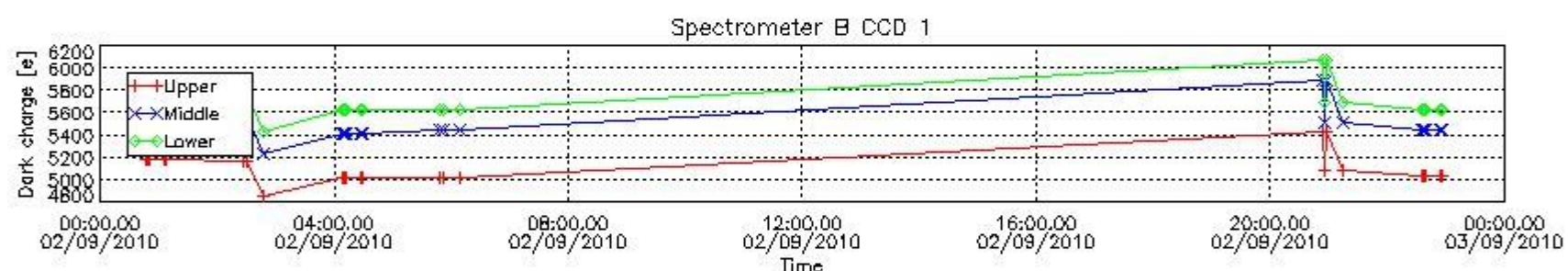
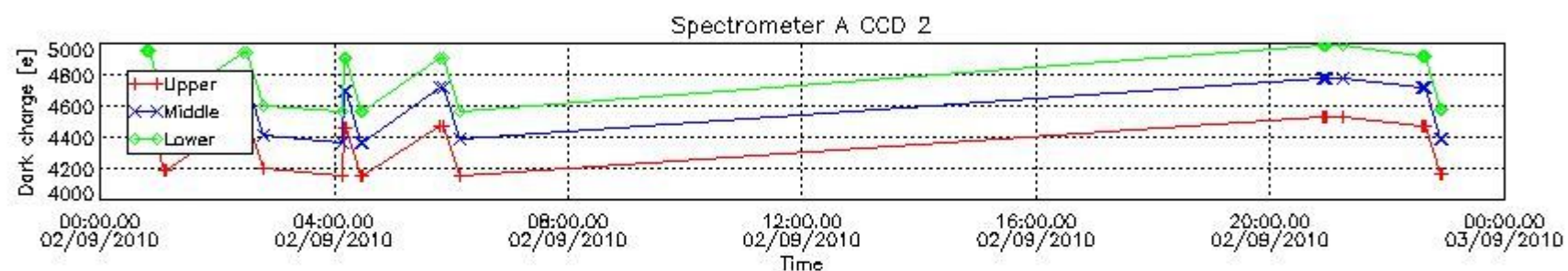
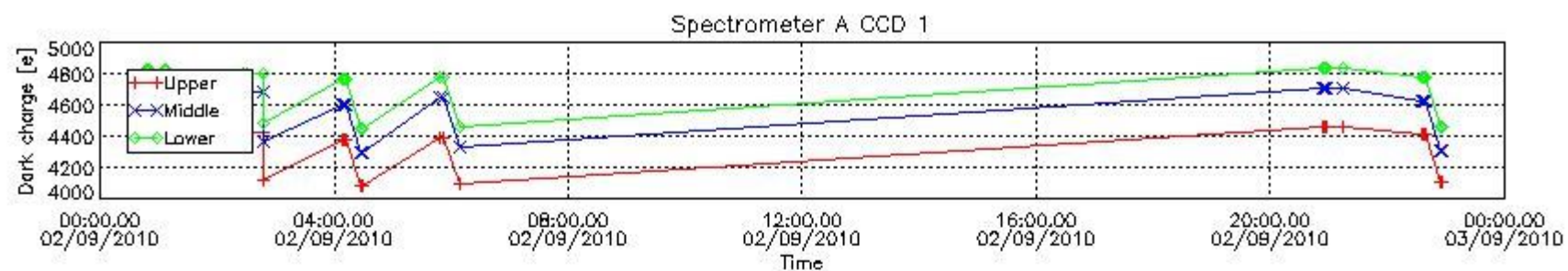
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100902_194024_000000552092_00343_44485_0405.N1	DC map used
GOM_TRA_1PNPDE20100902_194625_000000502092_00343_44485_0406.N1	DC map used
GOM_TRA_1PNPDE20100902_195544_000000402092_00343_44485_0407.N1	DC map used
GOM_TRA_1PNPDE20100902_195844_000000372092_00343_44485_0408.N1	DC map used
GOM_TRA_1PNPDE20100902_200128_000000492092_00343_44485_0409.N1	DC map used
GOM_TRA_1PNPDE20100902_200540_000000422092_00343_44485_0410.N1	DC map used
GOM_TRA_1PNPDE20100902_201619_000000452092_00343_44485_0411.N1	DC map used
GOM_TRA_1PNPDE20100902_201825_000000462092_00343_44485_0412.N1	DC map used
GOM_TRA_1PNPDE20100902_203415_000000462092_00343_44485_0413.N1	DC map used

GOM_TRA_1PNPDE20100902_203708_000000502092_00343_44485_0414.N1	DC map used
GOM_TRA_1PNPDE20100902_203928_000000402092_00343_44485_0415.N1	DC map used
GOM_TRA_1PNPDE20100902_204223_000000622092_00343_44485_0416.N1	DC map used
GOM_TRA_1PNPDE20100902_204411_000000532092_00343_44485_0417.N1	DC map used
GOM_TRA_1PNPDE20100902_204611_000000512092_00343_44485_0418.N1	DC map used

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

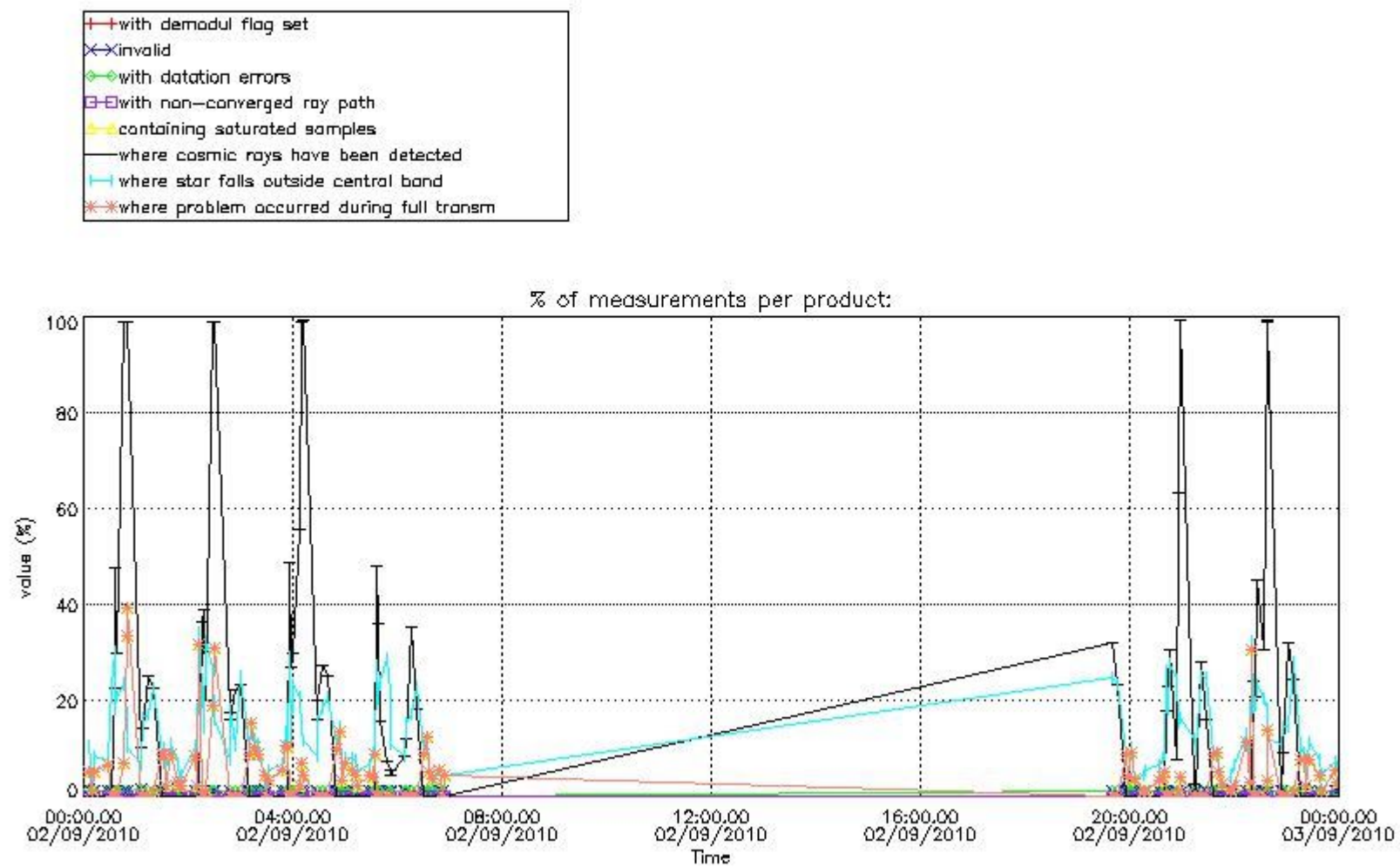


In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

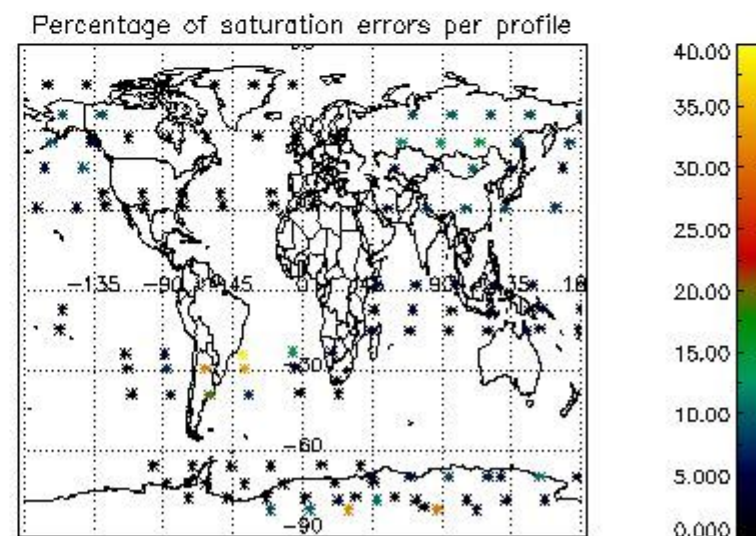
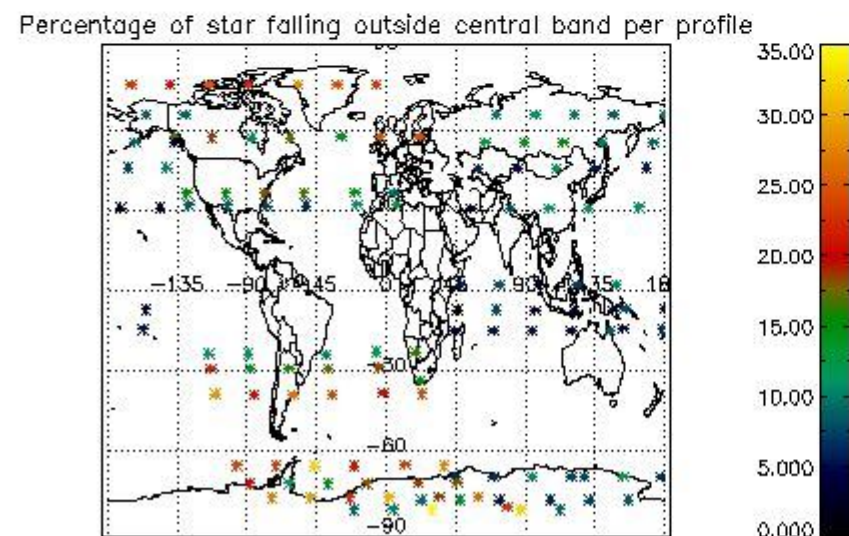
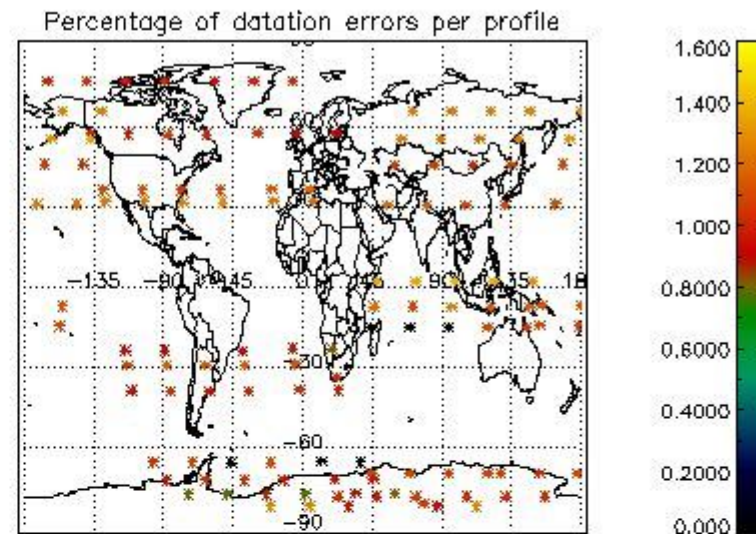
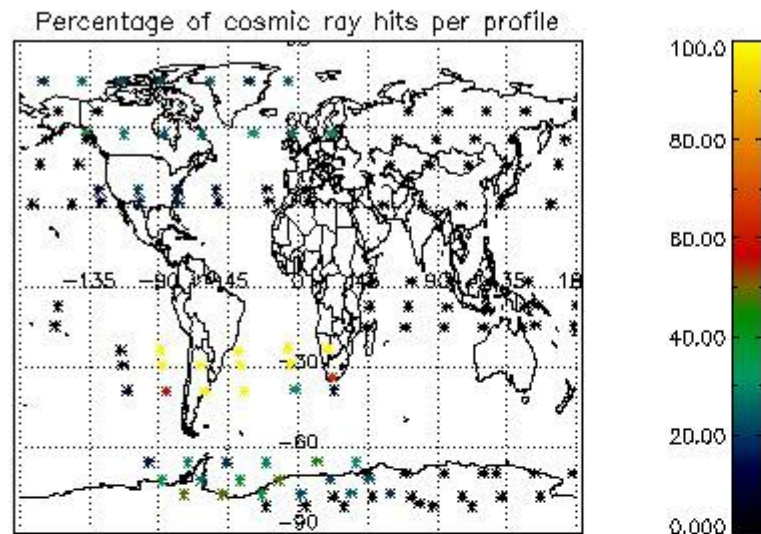
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.6589 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



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

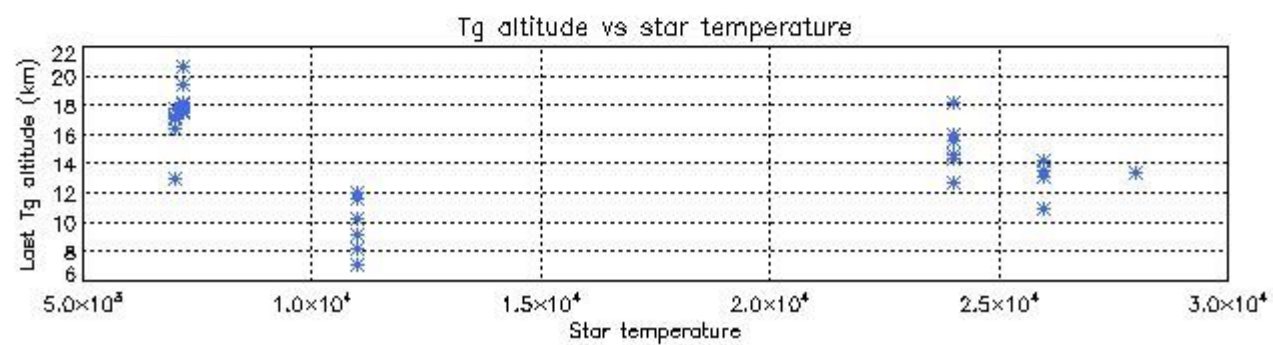
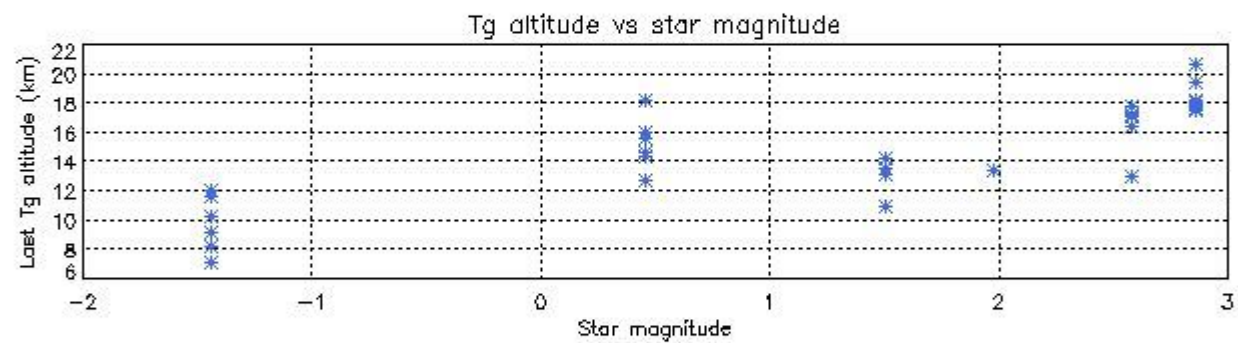
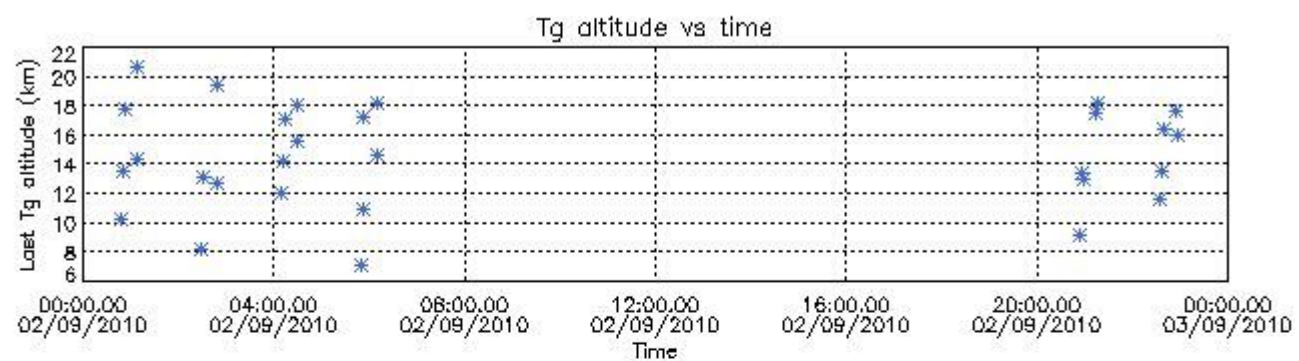
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.522	19.211	8.7480
St. deviation:	3.4354	3.9099	1.8590
Maximum:	20.670	28.690	10.737
Minimum:	7.0898	4.1404	5.8140
Number of data:	29.000	68.000	6.0000

### 6.2 Plot for DARK limb products

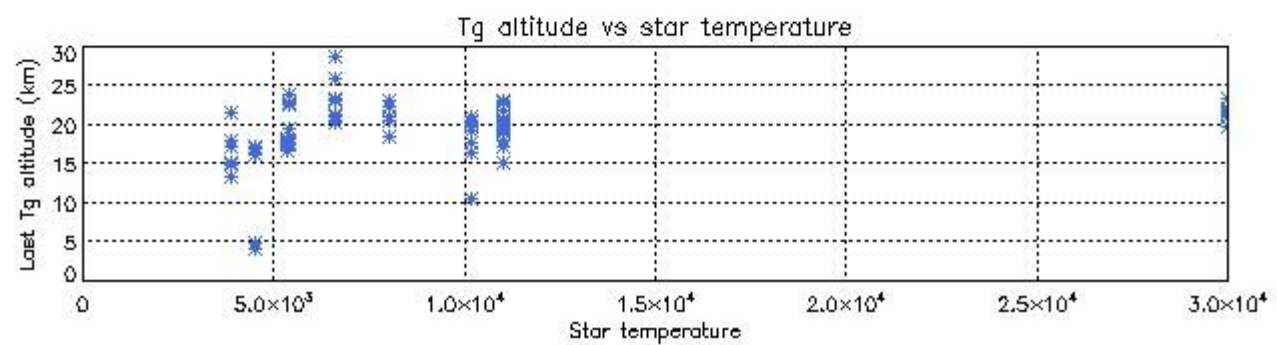
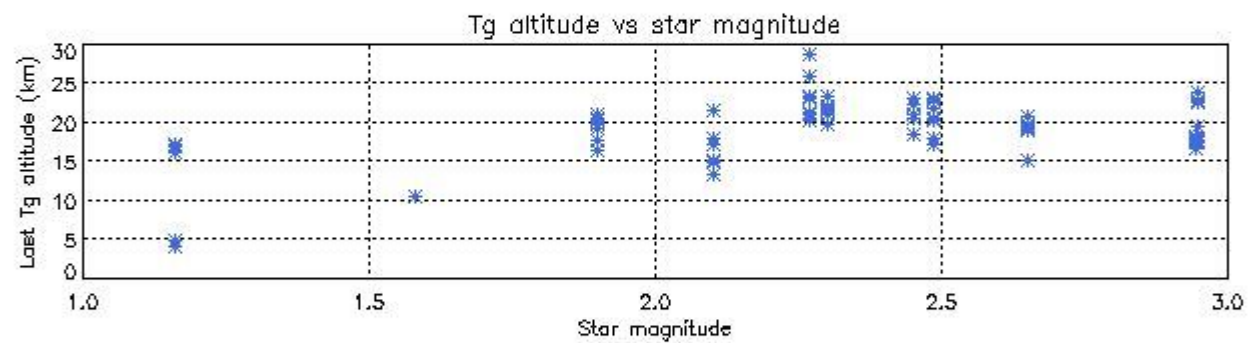
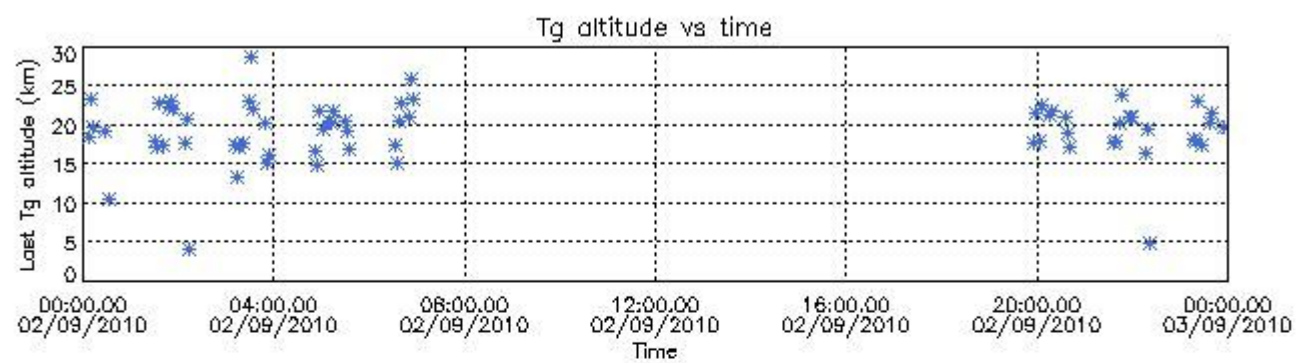


Tangent altitude at which the star is lost



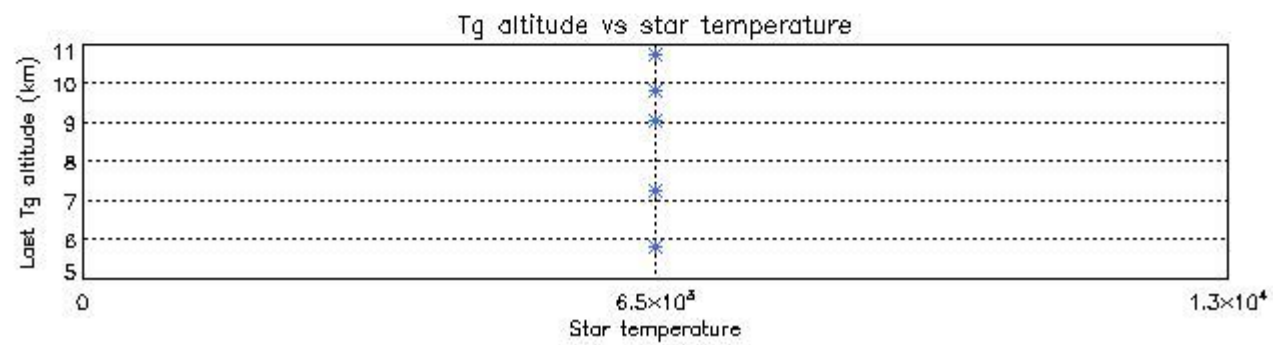
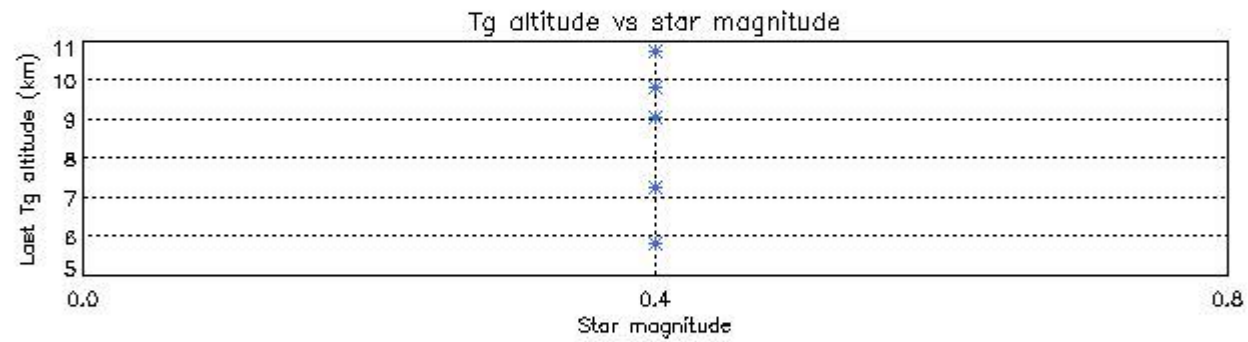
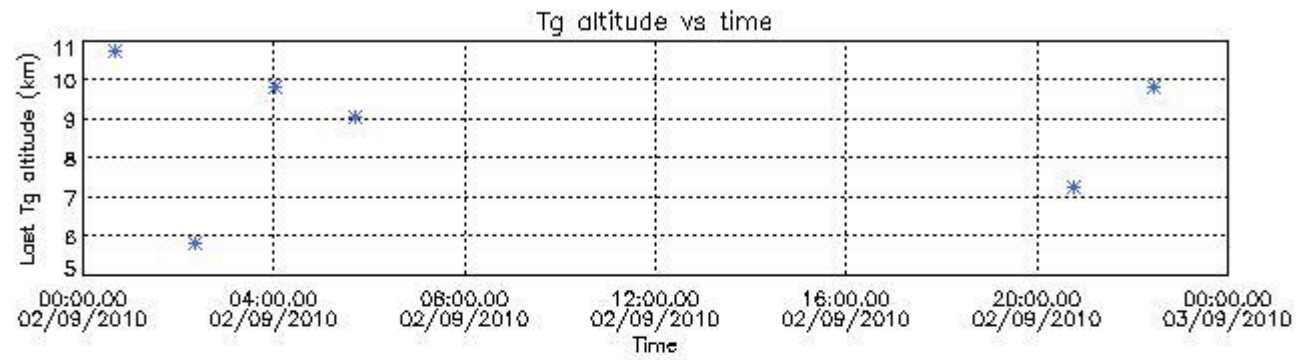
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

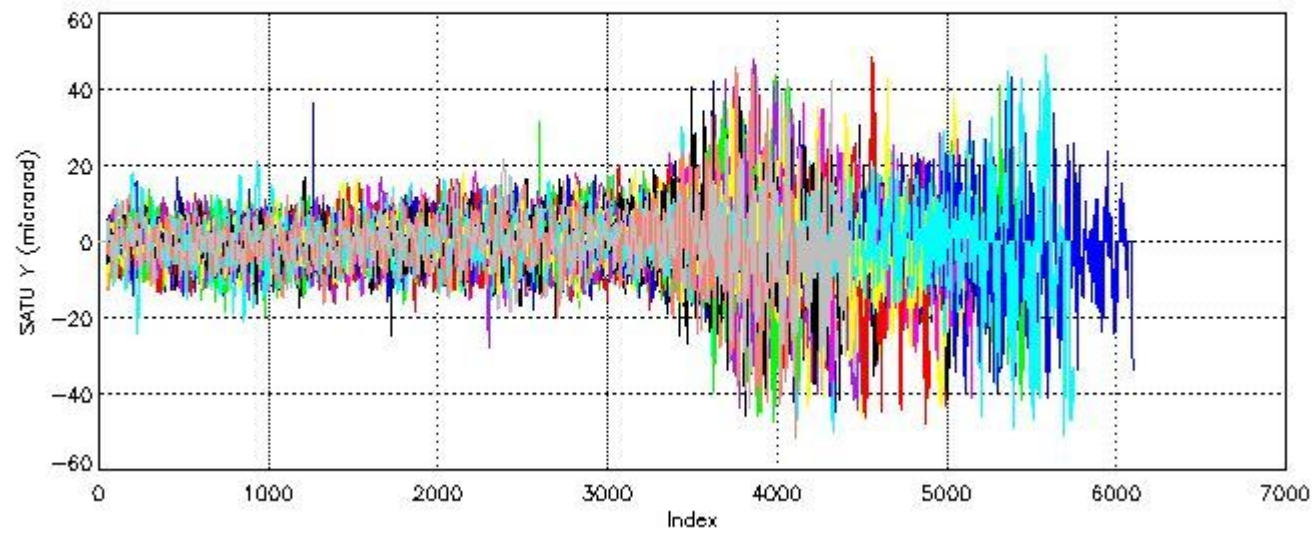
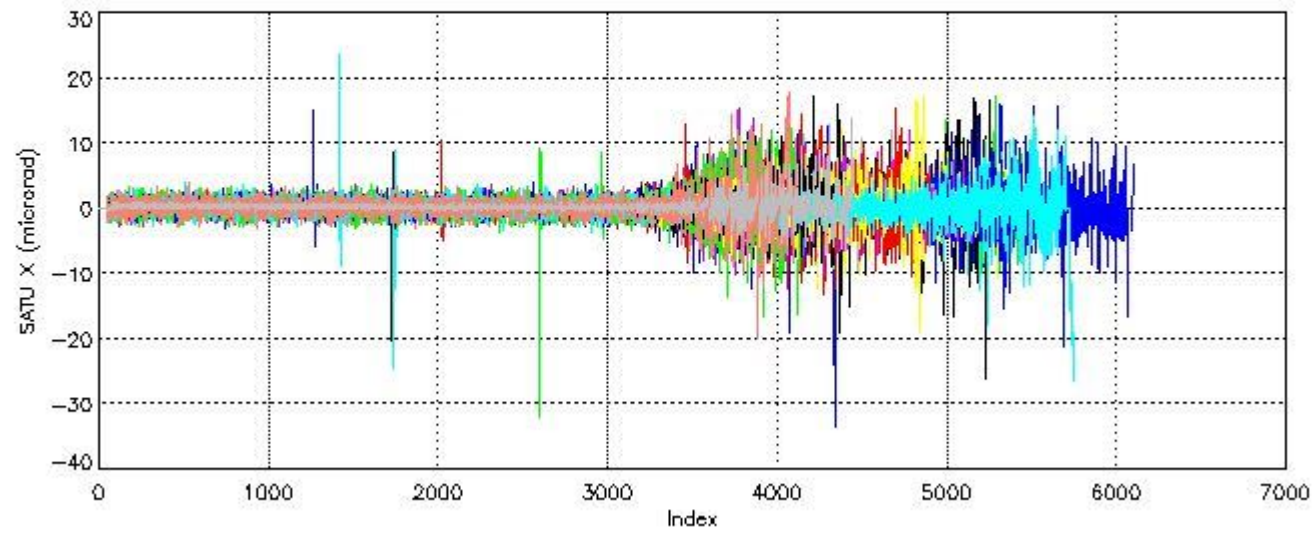


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.16873	-0.75126	0.22304	-0.45318
St. deviation:	0.54315	4.5405	0.80234	4.3739
Maximum:	15.000	36.300	4.5000	19.100
Minimum:	-5.8000	-24.400	-4.3000	-20.600

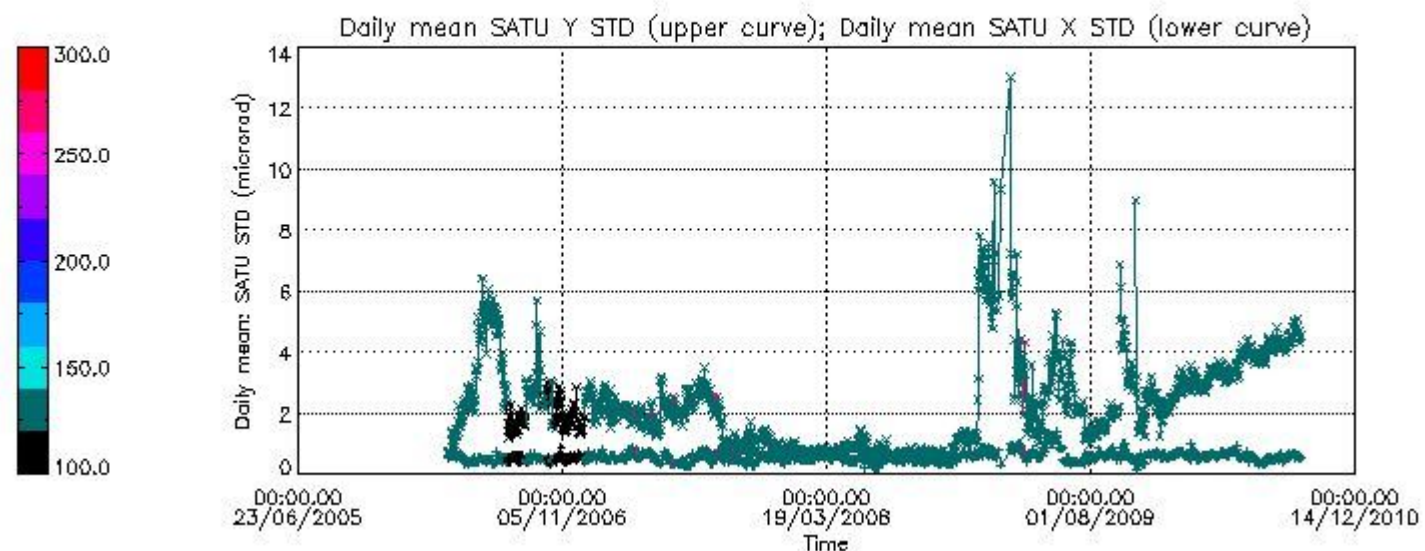
Number of data:	29800.	29800.	69800.	69800.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

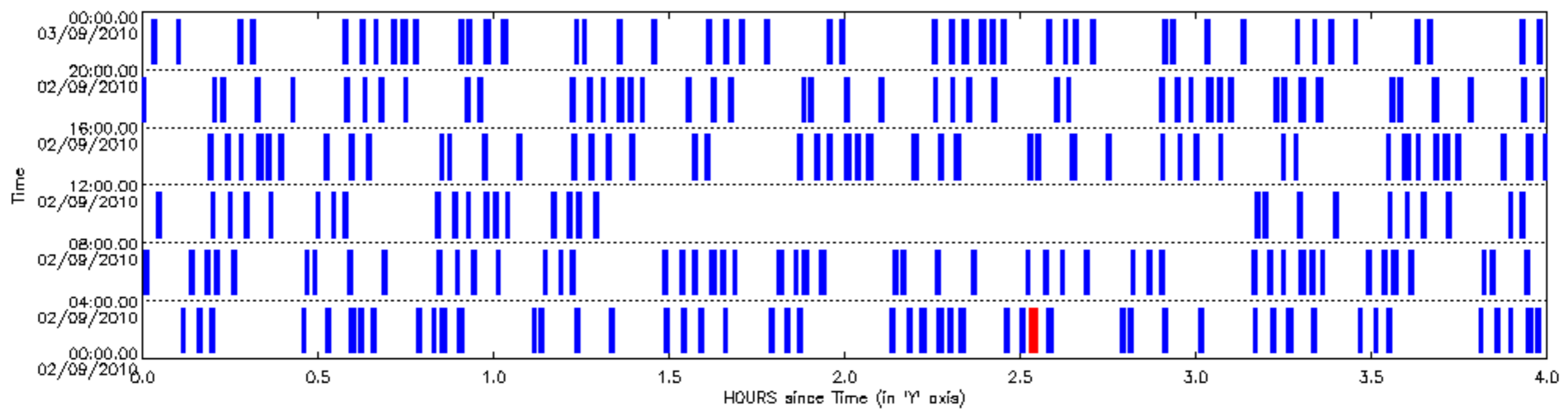
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

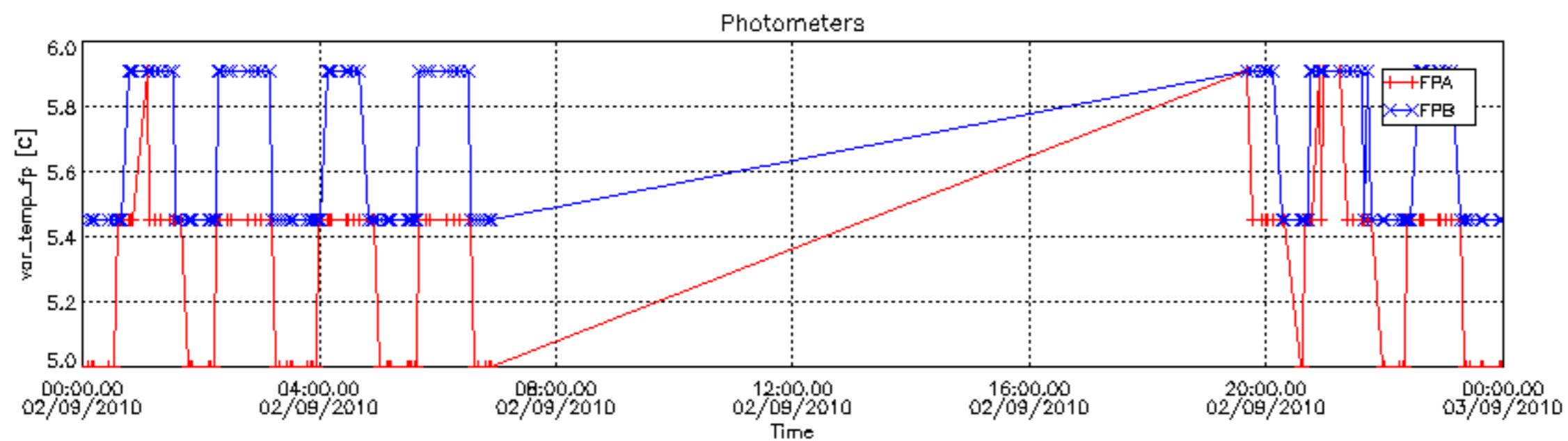
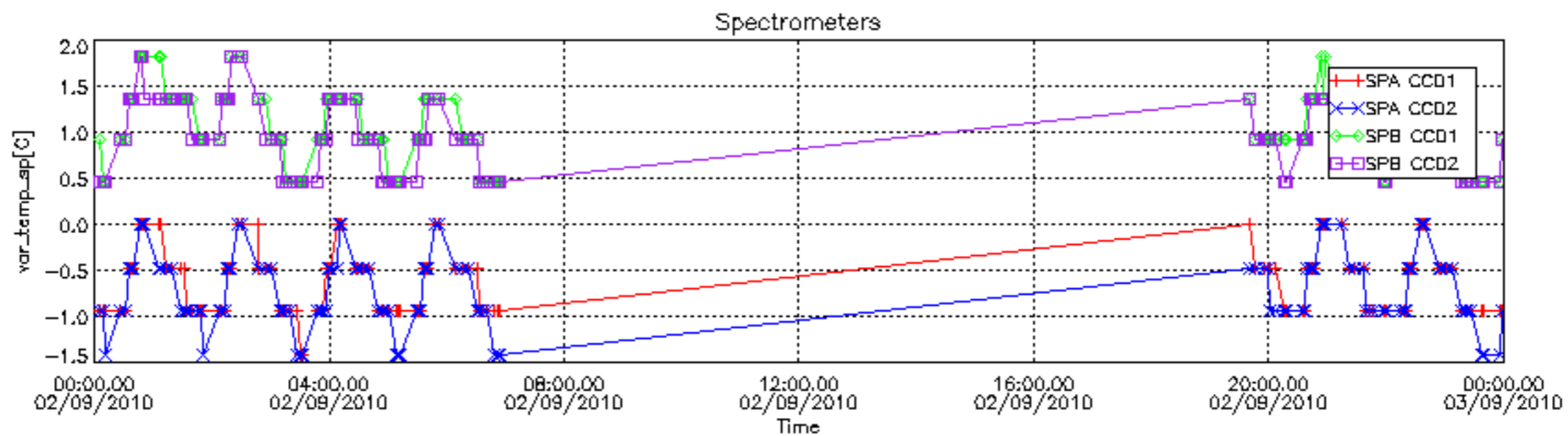


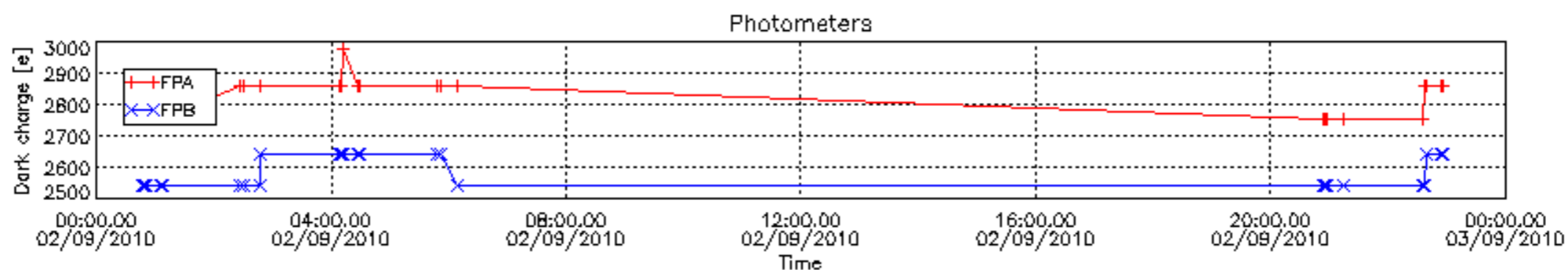
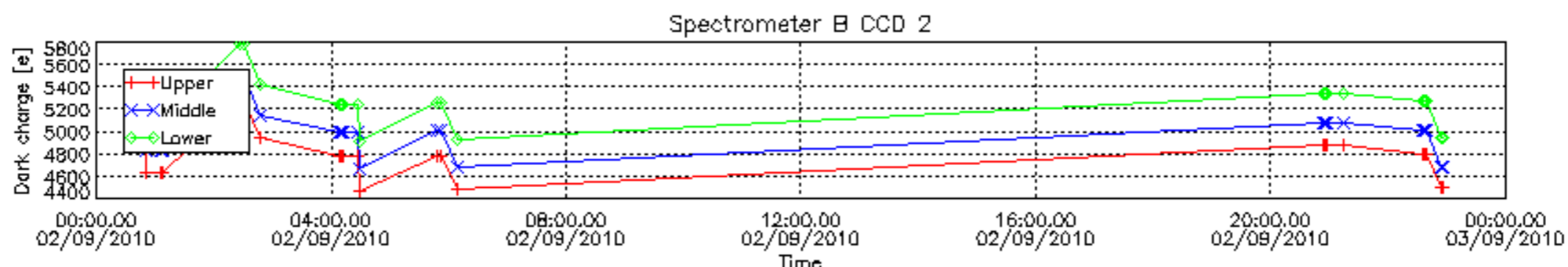
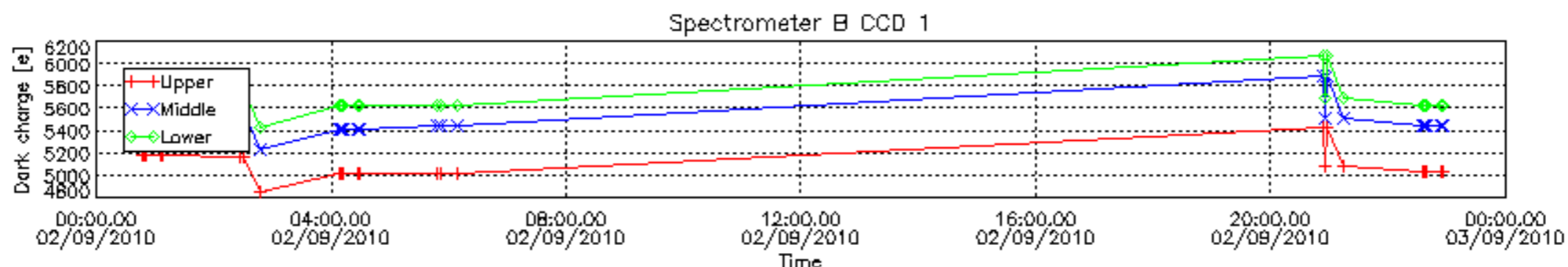
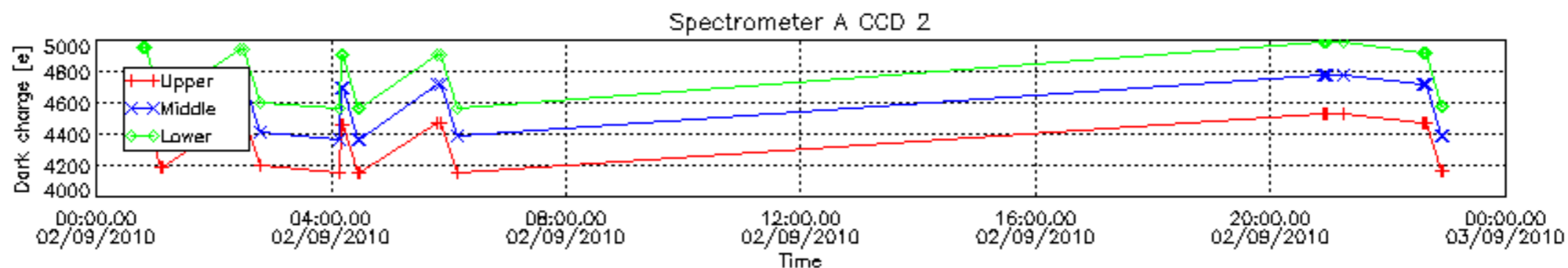
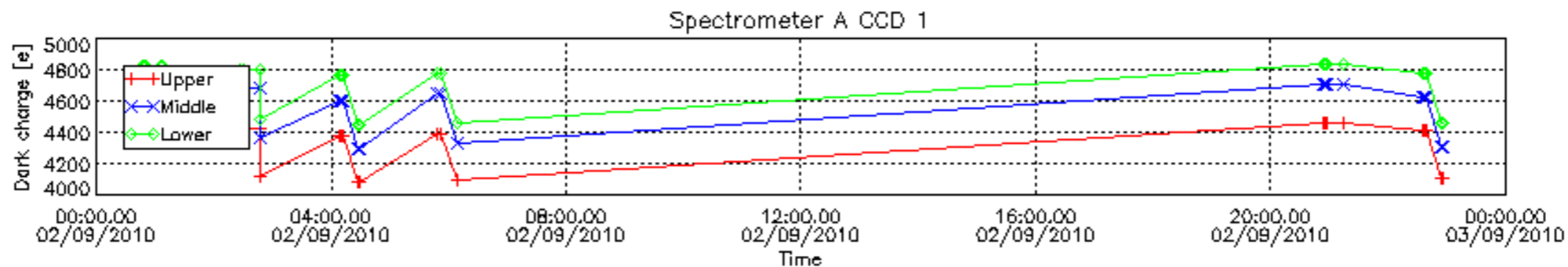
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

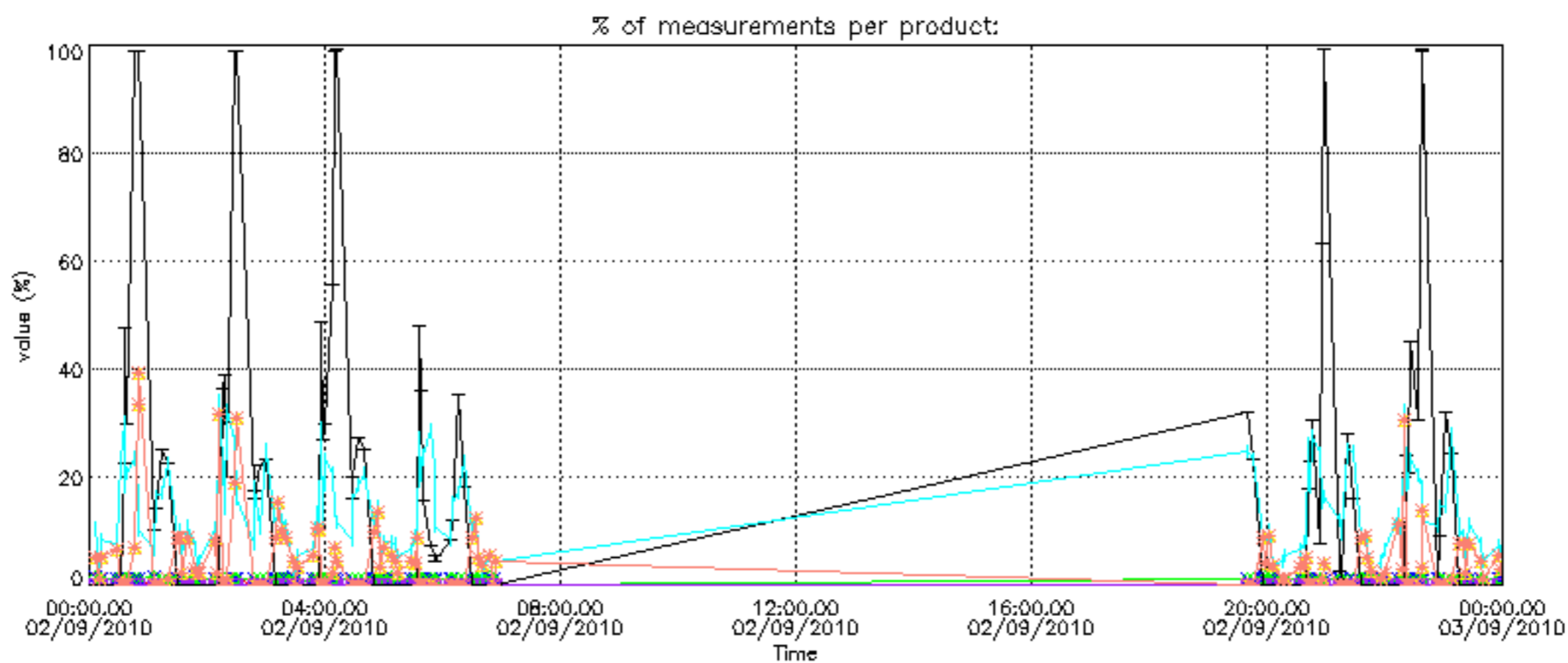
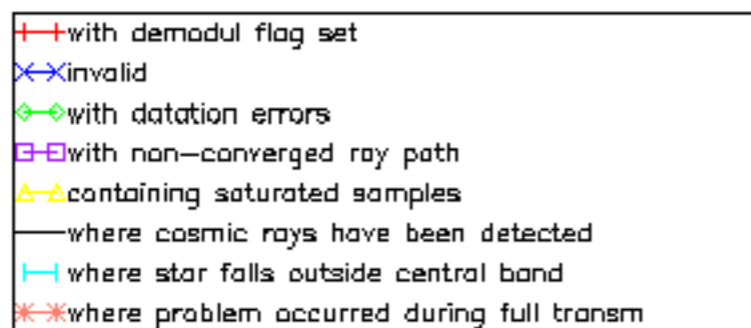
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-SEP-2010 00:06:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100824_082223_20100822_000000_20500101_000000	1	02-SEP-2010 00:06:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	02-SEP-2010 00:06:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-SEP-2010 00:06:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	02-SEP-2010 00:06:33
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ECMWF_FILE	AUX_ECF_AXNECM20100901_171801_20100902_030000_20100902_150000	42	02-SEP-2010 03:48:16
ECMWF_FILE	AUX_ECA_AXNECM20100902_052115_20100901_210000_20100902_090000	62	02-SEP-2010 05:28:52
ECMWF_FILE	AUX_ECA_AXNECM20100902_172116_20100902_090000_20100902_210000	82	02-SEP-2010 19:40:24
ECMWF_FILE	AUX_ECF_AXNECM20100902_054114_20100902_150000_20100903_030000	96	02-SEP-2010 20:53:58
ECMWF_FILE	AUX_ECF_AXNECM20100902_054115_20100902_210000_20100903_090000	115	02-SEP-2010 22:34:34
OPTIONAL_ECMWF_FILE	MISSING	1	02-SEP-2010 00:06:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100901_230222_000057382092_00330_44472_0977.N1	1	02-SEP-2010 00:06:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_004319_000054192092_00331_44473_0978.N1	9	02-SEP-2010 00:46:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_021857_000041442092_00332_44474_0979.N1	29	02-SEP-2010 02:27:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_033320_000060572092_00333_44475_0980.N1	42	02-SEP-2010 03:48:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_051936_000054192092_00334_44476_0981.N1	62	02-SEP-2010 05:28:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_193501_000038252092_00343_44485_0982.N1	82	02-SEP-2010 19:40:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_204405_000060572092_00343_44485_0983.N1	96	02-SEP-2010 20:53:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100902_223021_000057382092_00344_44486_0984.N1	115	02-SEP-2010 22:34:34



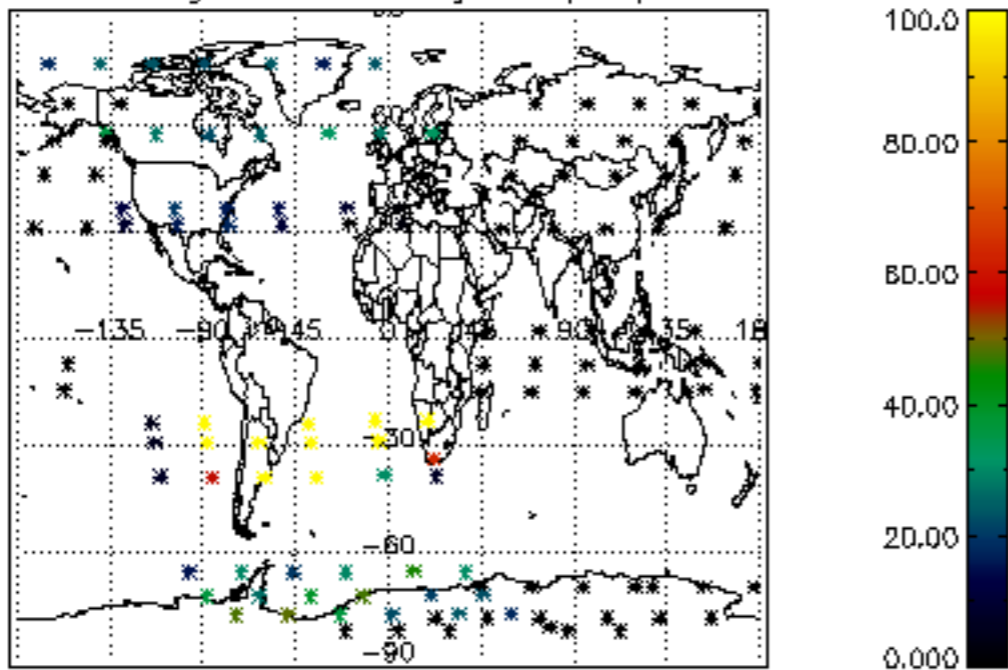




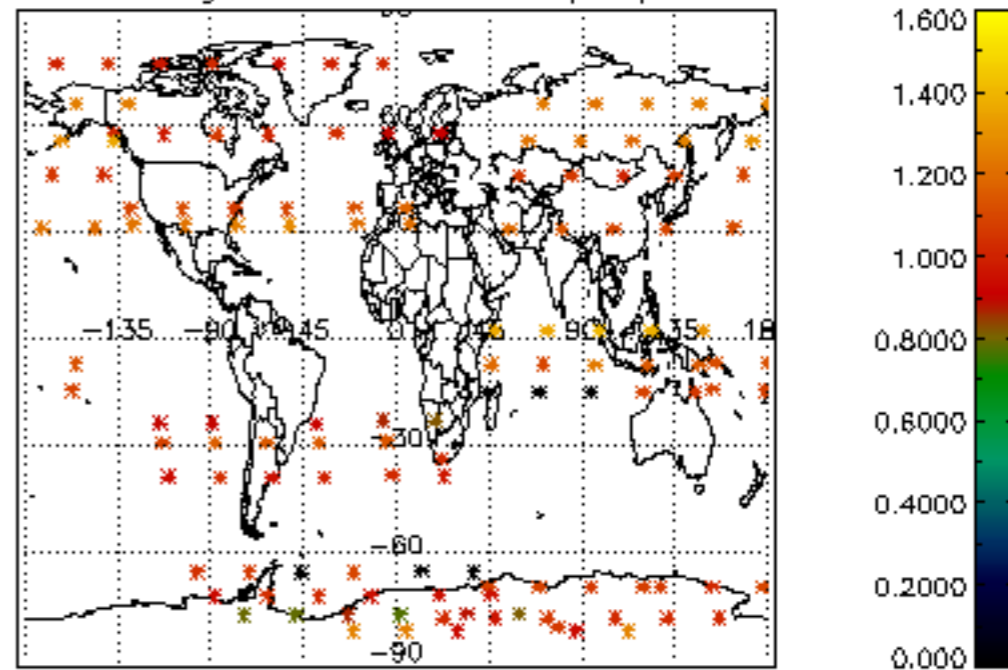




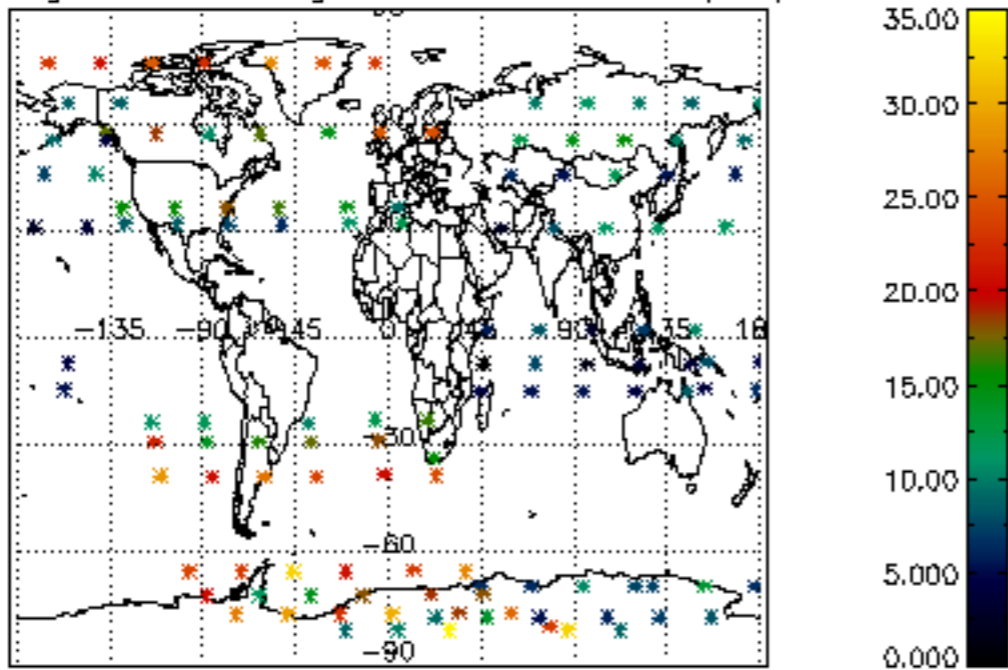
Percentage of cosmic ray hits per profile



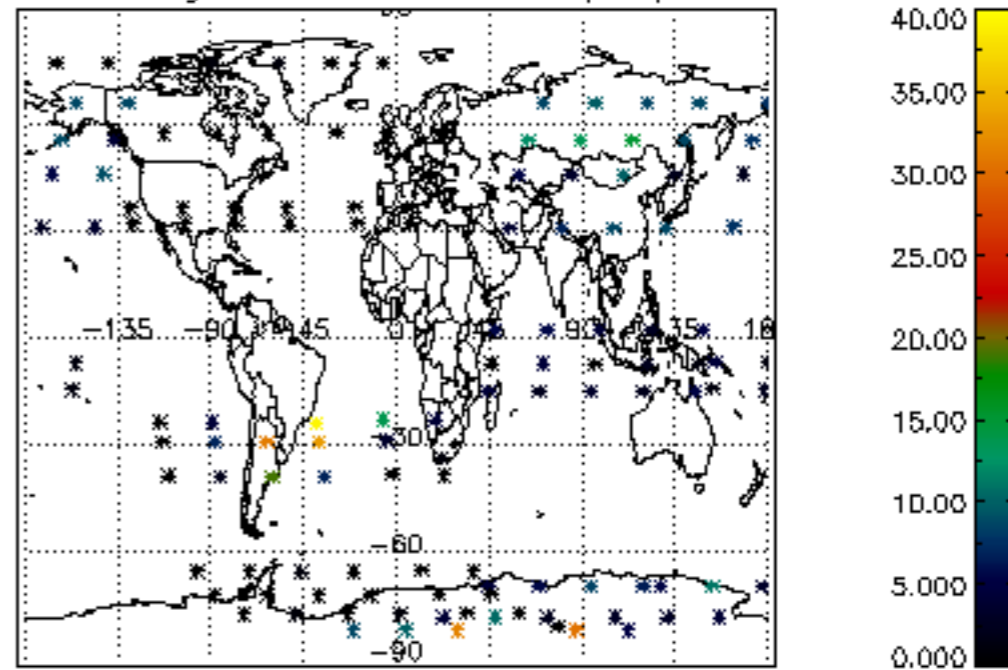
Percentage of datation errors per profile



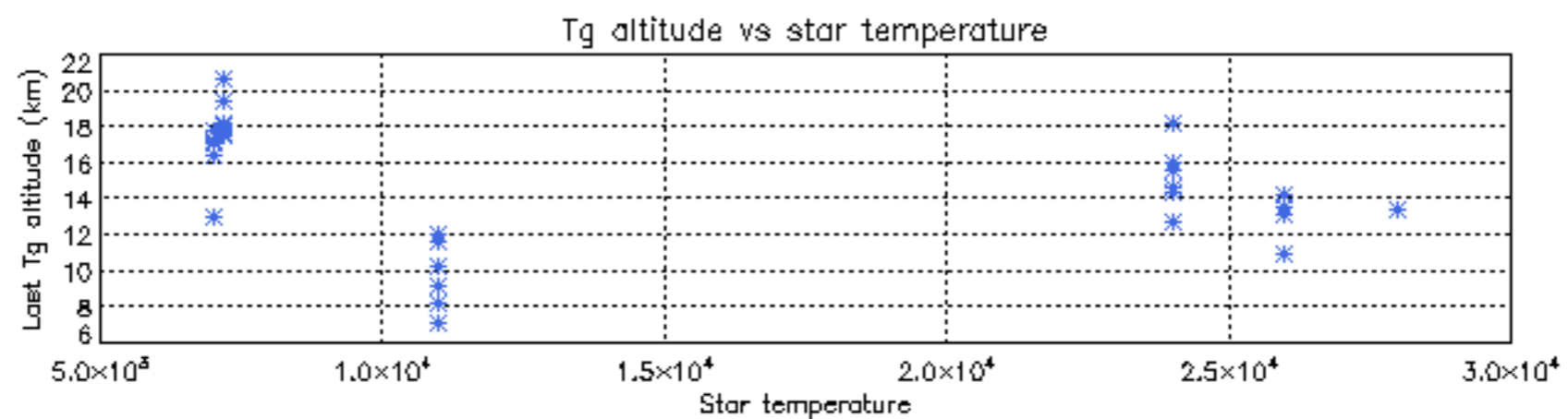
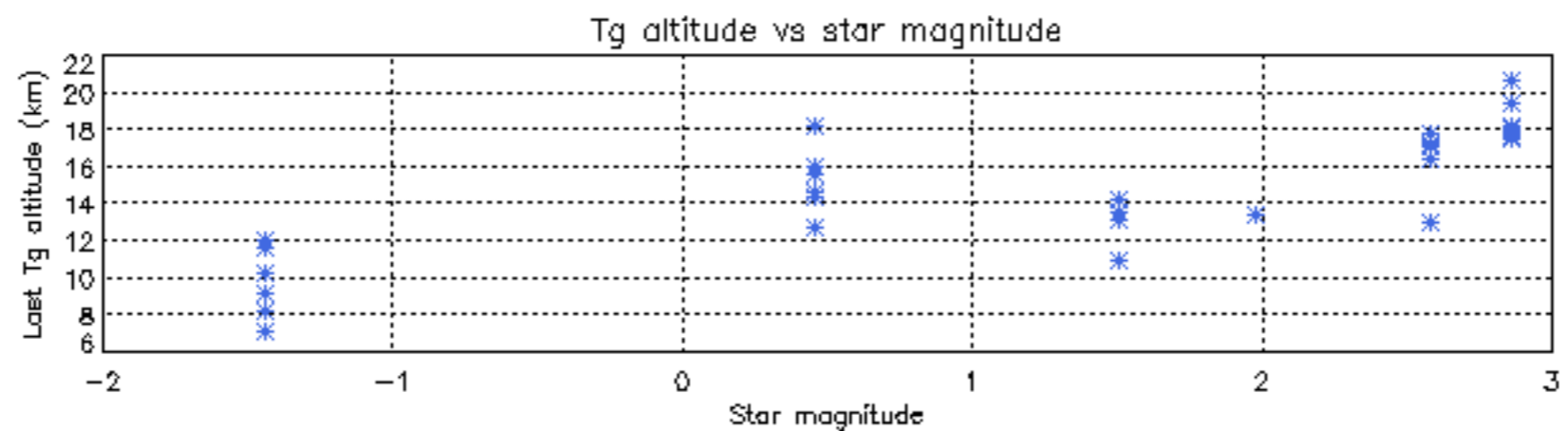
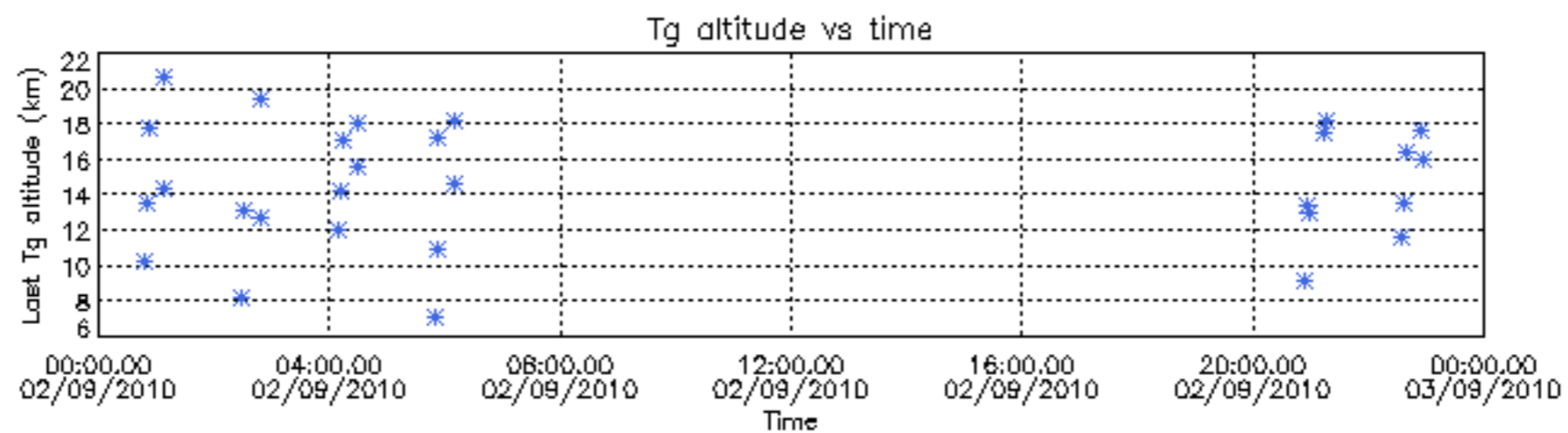
Percentage of star falling outside central band per profile



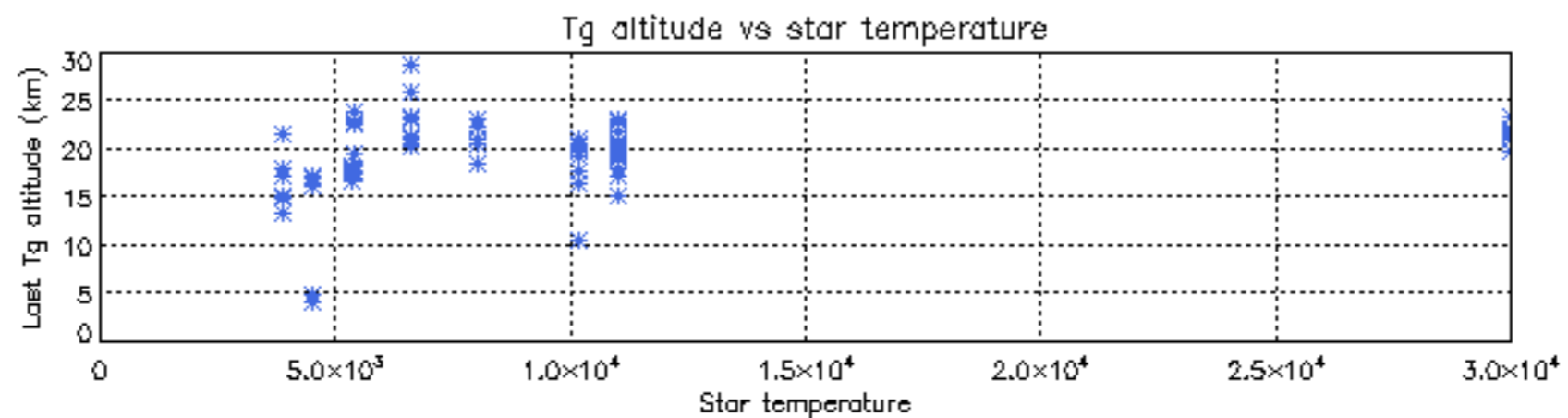
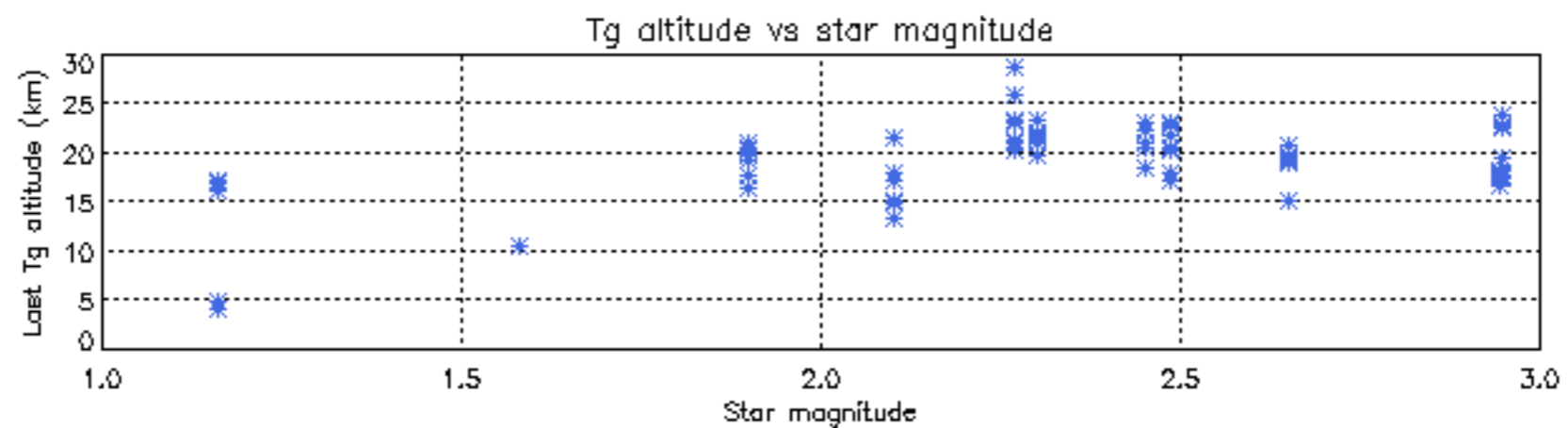
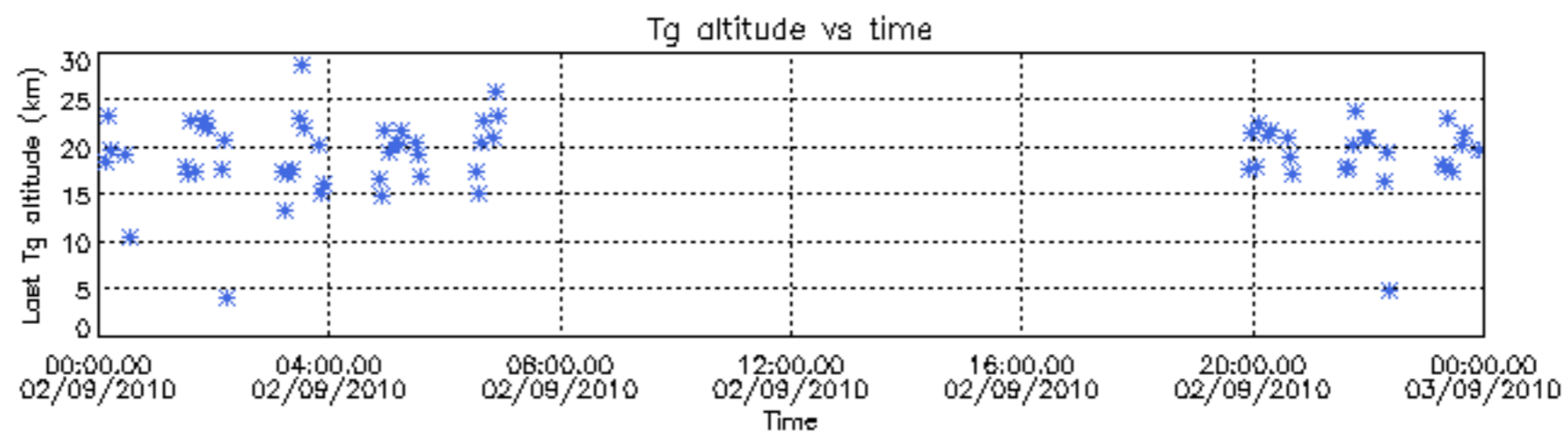
Percentage of saturation errors per profile



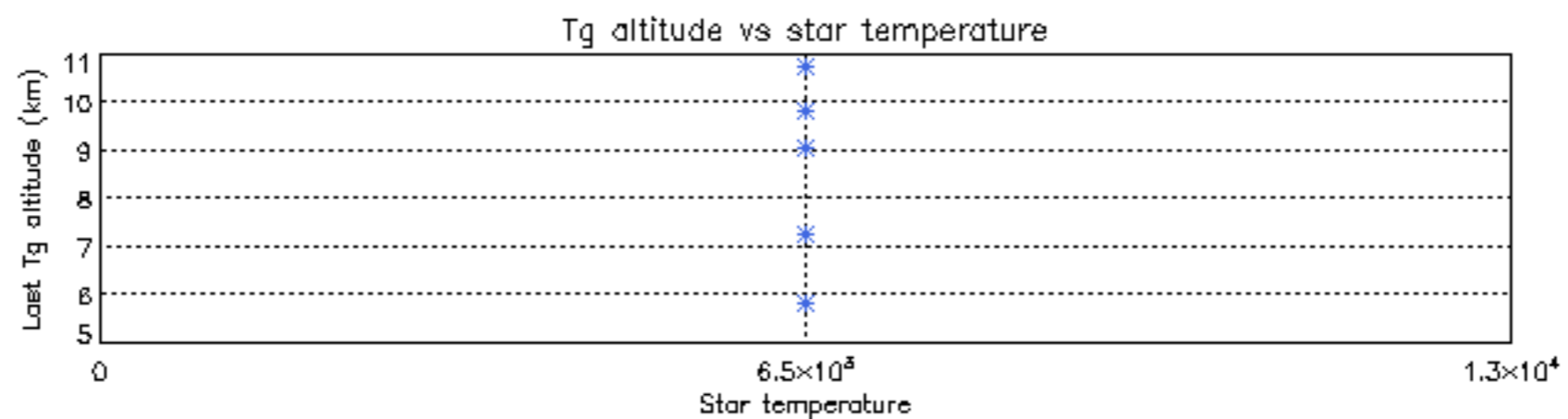
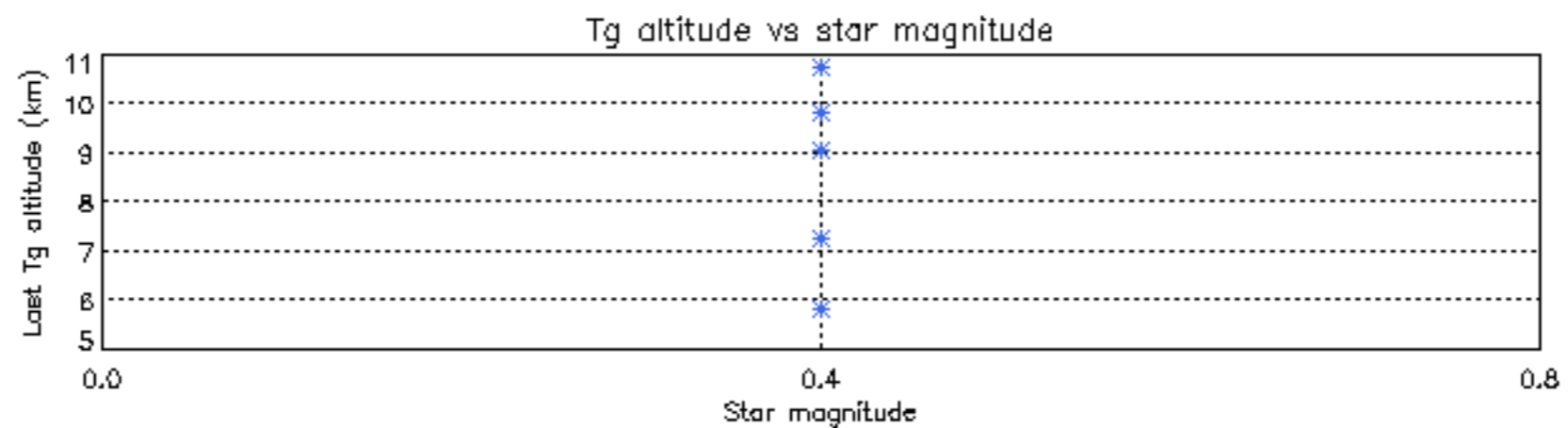
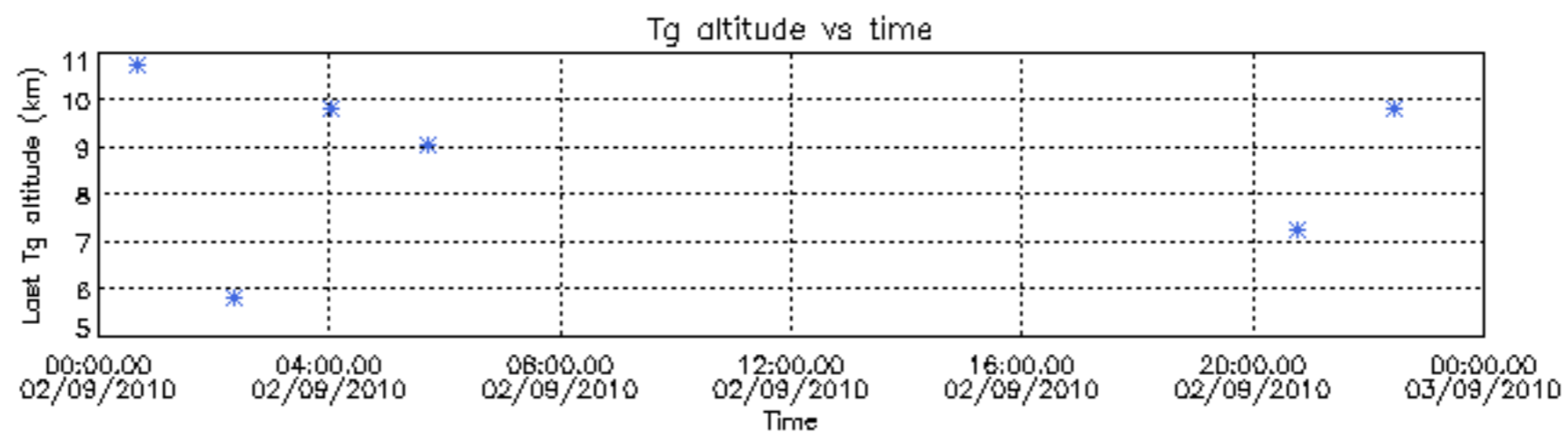
Tangent altitude at which the star is lost

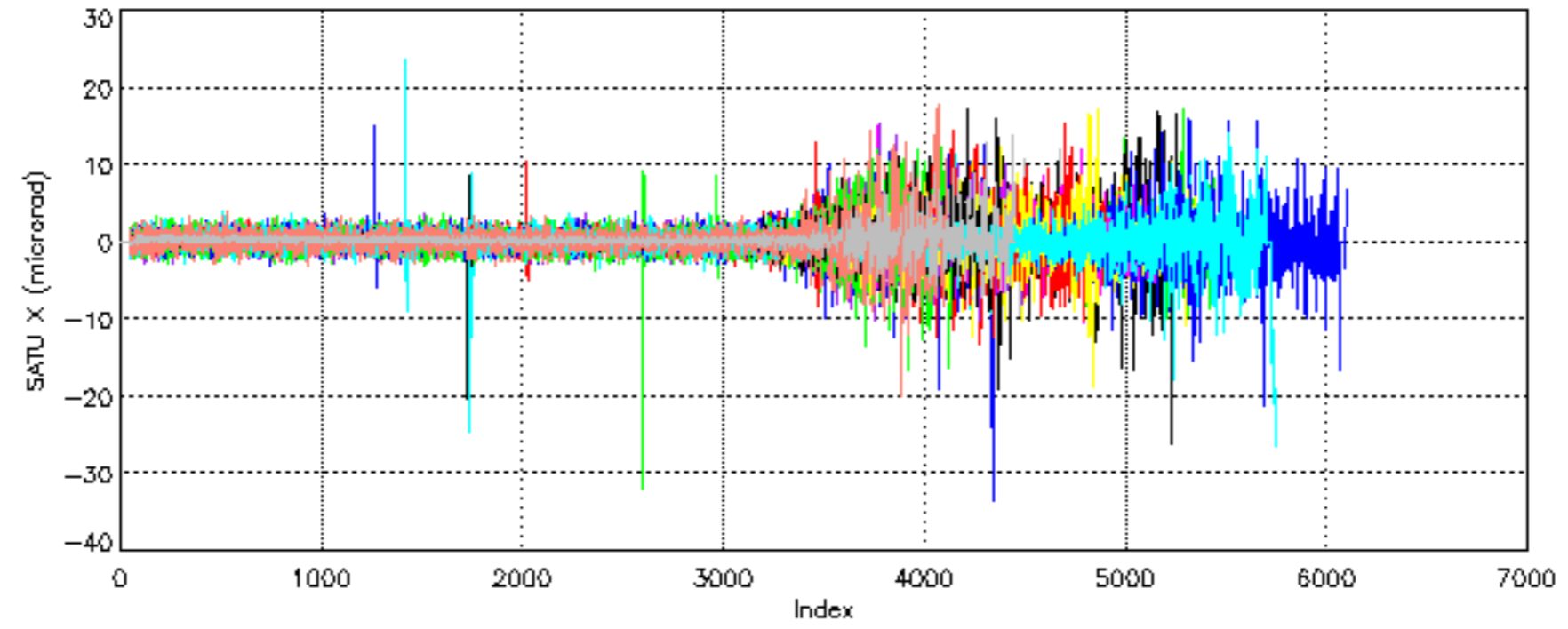


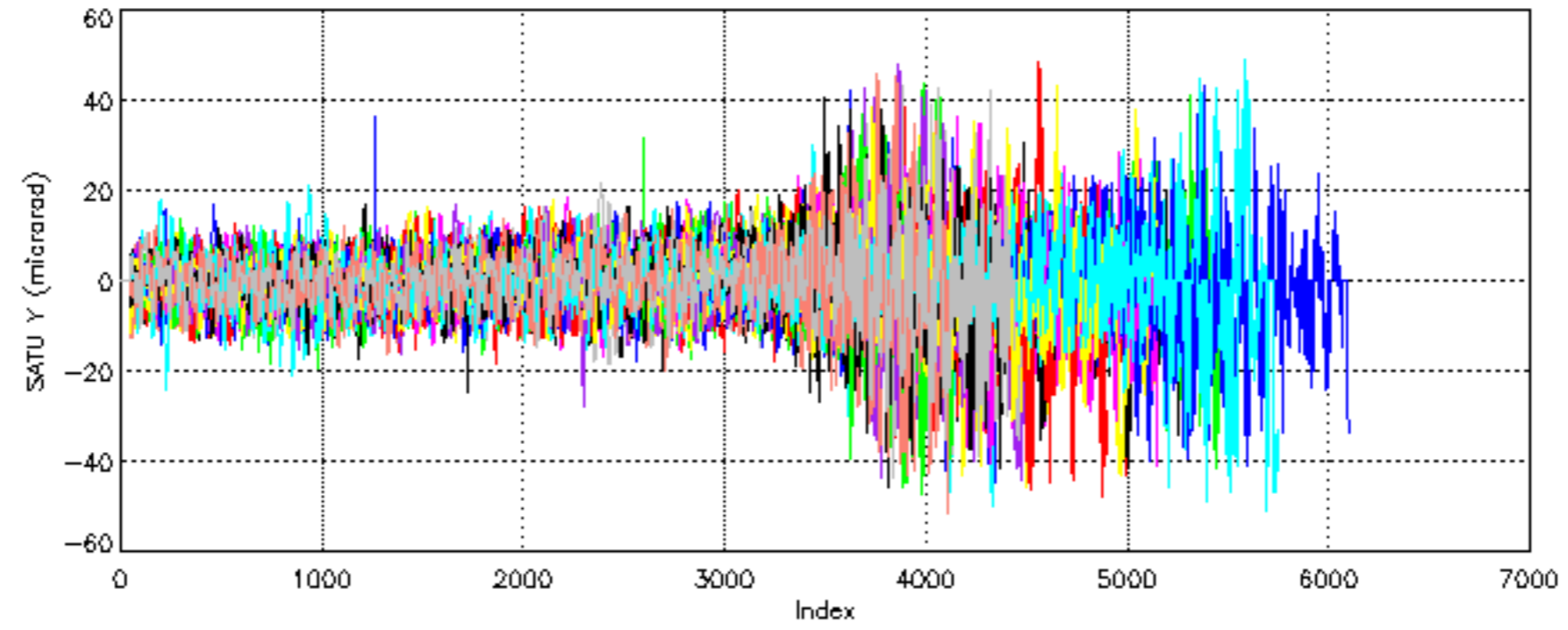
Tangent altitude at which the star is lost

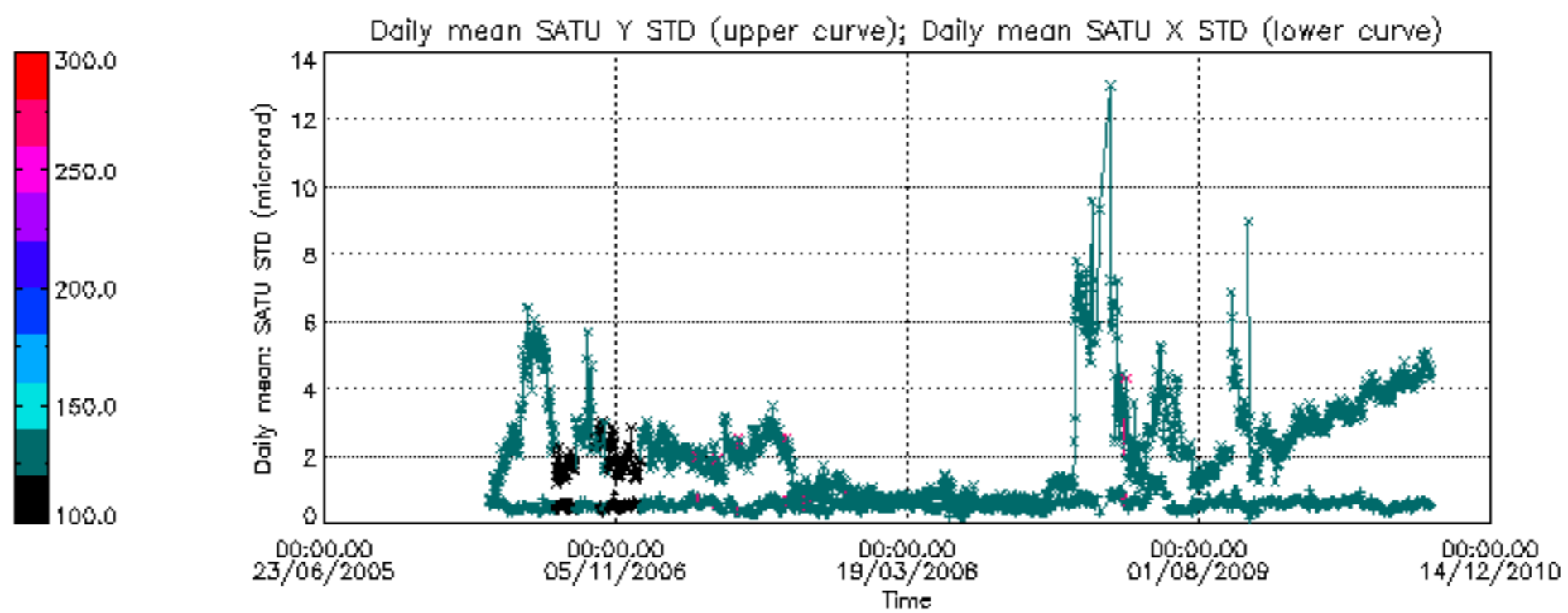


Tangent altitude at which the star is lost











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 5; 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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 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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 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  
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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
16; 7564.1; 16-SEP-2010 14:07:34; Dark ; 8.5; 52; 16Bet Cet ; 2.04; 4500;occ; 17; 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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2; 1528.6; 16-SEP-2010 19:09:23; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;44685  
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  
13; 5913.9; 16-SEP-2010 20:22:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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  
16; 6764.3; 16-SEP-2010 20:36:38; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;44686

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4; -119.2; 17-SEP-2010 01:24:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44688  
5; 30.3; 17-SEP-2010 01:26:48; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44689  
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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8; 1072.5; 17-SEP-2010 01:44:10; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;44689
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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12; 2528.1; 17-SEP-2010 02:08:25; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;44689
13; 3021.5; 17-SEP-2010 02:16:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 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
18; 3127.2; 17-SEP-2010 05:39:36; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 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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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