

# GOMOS Daily Report 06-AUG-2011

## 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	10AUG2011 07:07:49
Data source version	GOMOS/6.01
Start time of products	06AUG2011 00:11:36
Stop time of products	06AUG2011 21:16:17
Store outputs in DB	Yes
Nb of level 1b prods	180
Nb of prods with errors	2

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

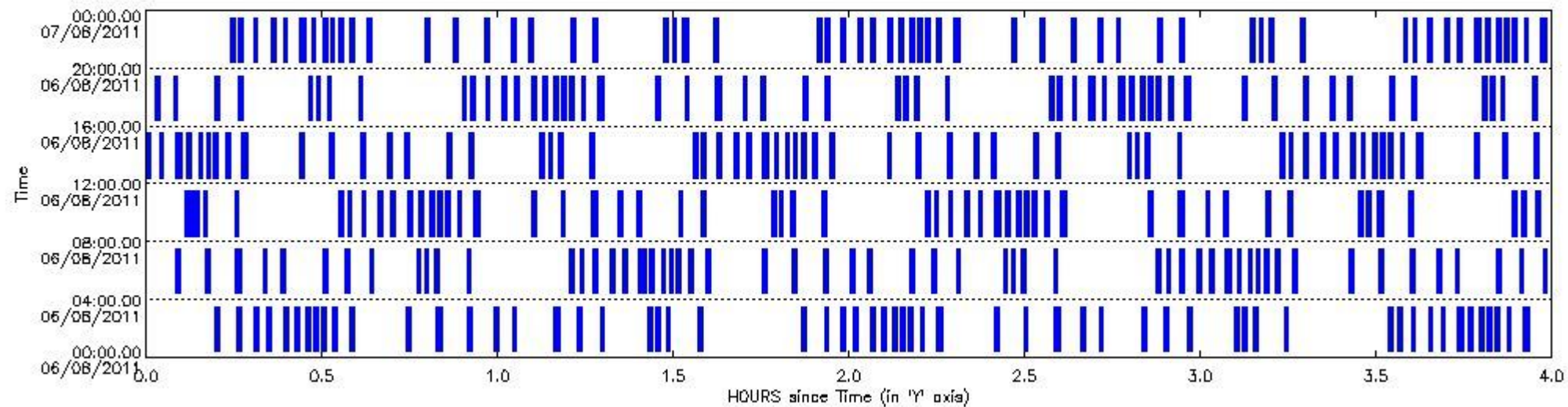
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

No missing products.

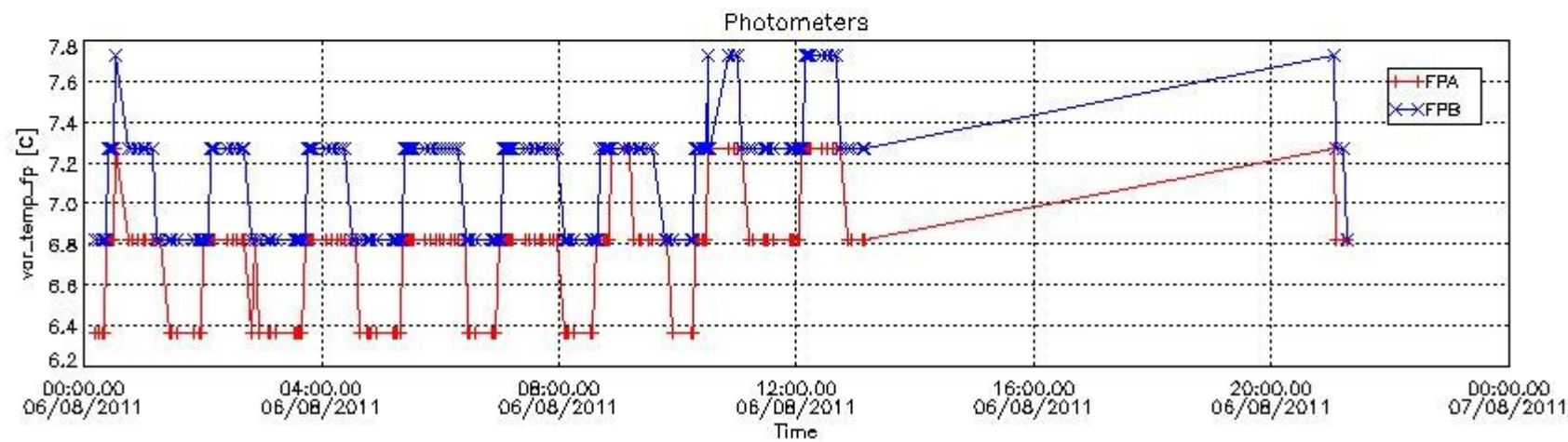
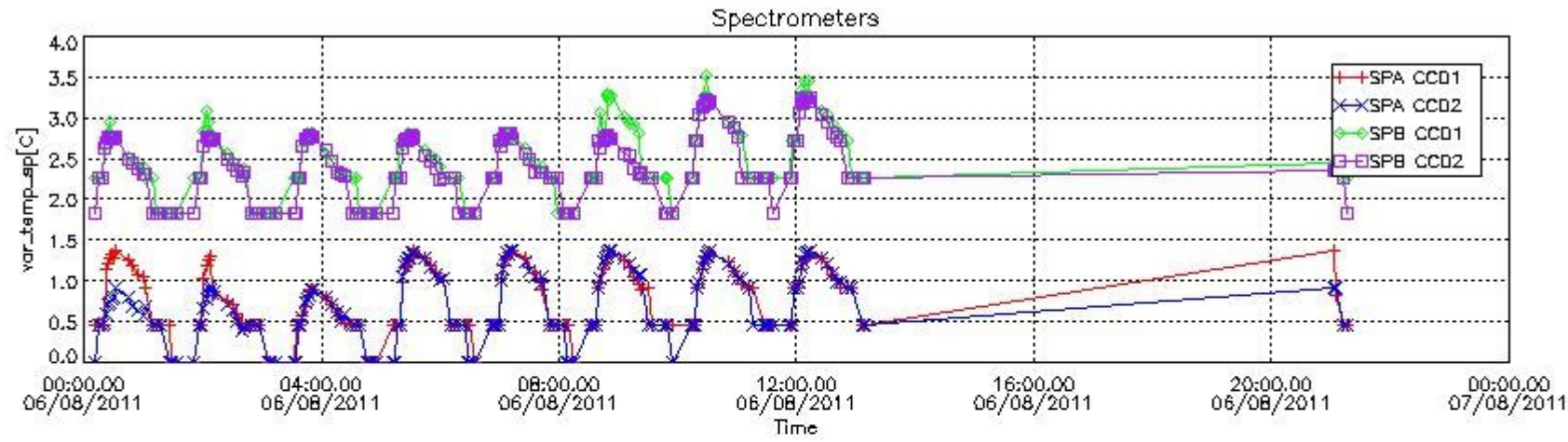
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110806_001136_000000473105_00174_49326_1670.N1	06-AUG-2011 00:11:36	Bright	47.000	175	39Del Per	3.0100	19400.	94	49326	No
2	GOM_TRA_1PNPDE20110806_001533_000000473105_00174_49326_1671.N1	06-AUG-2011 00:15:33	Bright	46.500	107	37The Aur	2.6490	11000.	93	49326	No
3	GOM_TRA_1PNPDE20110806_001825_000000483105_00174_49326_1672.N1	06-AUG-2011 00:18:25	Bright	48.000	28	12Bet Tau	1.6500	15200.	96	49326	No
4	GOM_TRA_1PNPDE20110806_002035_000000423105_00174_49326_1673.N1	06-AUG-2011 00:20:35	Twilight_and_stray	42.000	176	23Zet Tau	3.0200	22000.	84	49326	No
5	GOM_TRA_1PNPDE20110806_002320_000000613105_00174_49326_1674.N1	06-AUG-2011 00:23:20	Dark	61.000	13	87Alp Tau	0.86700	3800.0	122	49326	No
6	GOM_TRA_1PNPDE20110806_002516_000000473105_00174_49326_1675.N1	06-AUG-2011 00:25:16	Dark	47.000	27	24Gam Ori	1.6360	26000.	94	49326	No
7	GOM_TRA_1PNPDE20110806_002712_000000443105_00174_49326_1676.N1	06-AUG-2011 00:27:12	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	49326	No
8	GOM_TRA_1PNPDE20110806_002833_000000423105_00174_49326_1677.N1	06-AUG-2011 00:28:33	Dark	41.500	125	44Iot Ori	2.7700	30000.	83	49326	No
9	GOM_TRA_1PNPDE20110806_002949_000000493105_00174_49326_1678.N1	06-AUG-2011 00:29:49	Dark	49.000	7	19Bet Ori	0.10000	14000.	98	49326	No
10	GOM_TRA_1PNPDE20110806_003154_000000433105_00174_49326_1619.N1	06-AUG-2011 00:31:54	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	49326	Yes
11	GOM_TRA_1PNPDE20110806_004428_000000483105_00175_49327_1620.N1	06-AUG-2011 00:44:28	Dark	48.000	157	The1Eri	2.9060	9300.0	96	49327	No
12	GOM_TRA_1PNPDE20110806_004932_000000563105_00175_49327_1621.N1	06-AUG-2011 00:49:32	Dark	55.500	9	Alp Eri	0.45300	24000.	111	49327	No









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

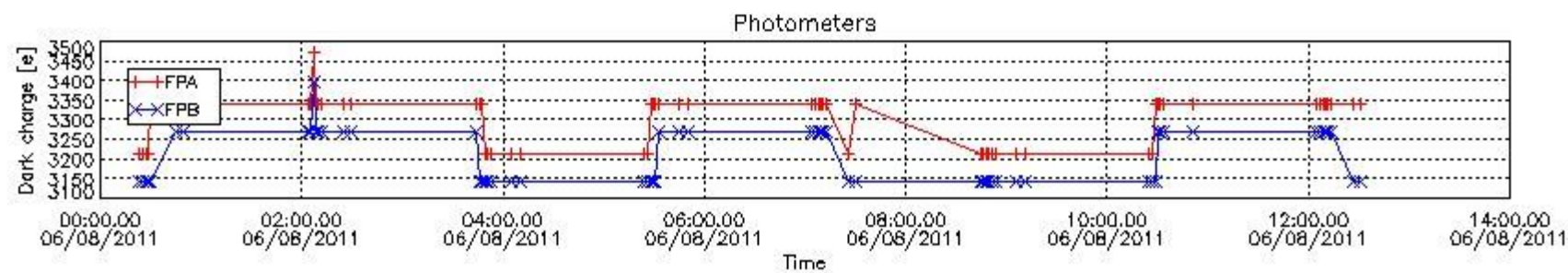
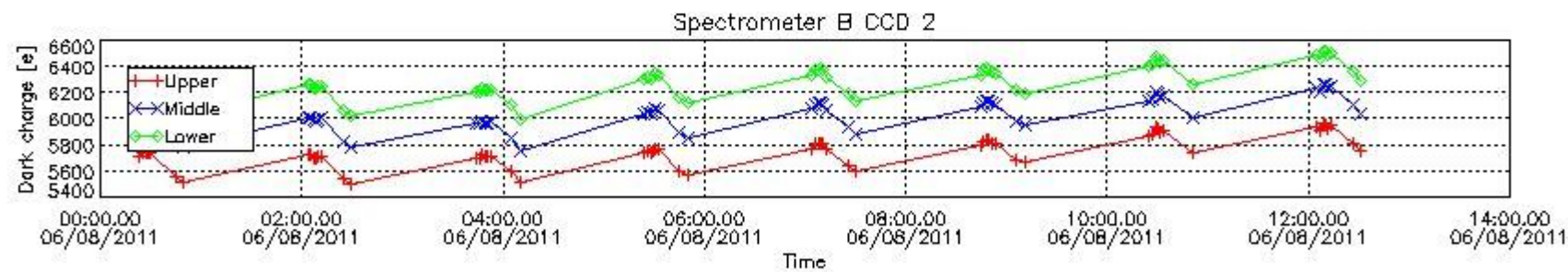
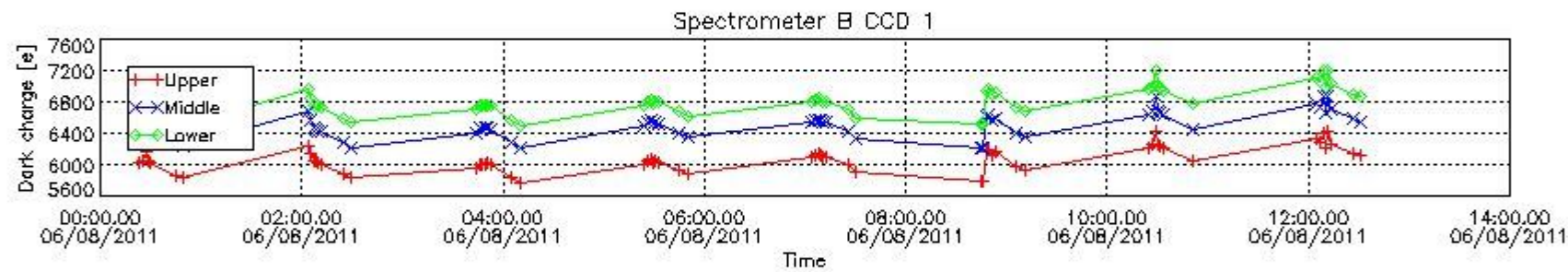
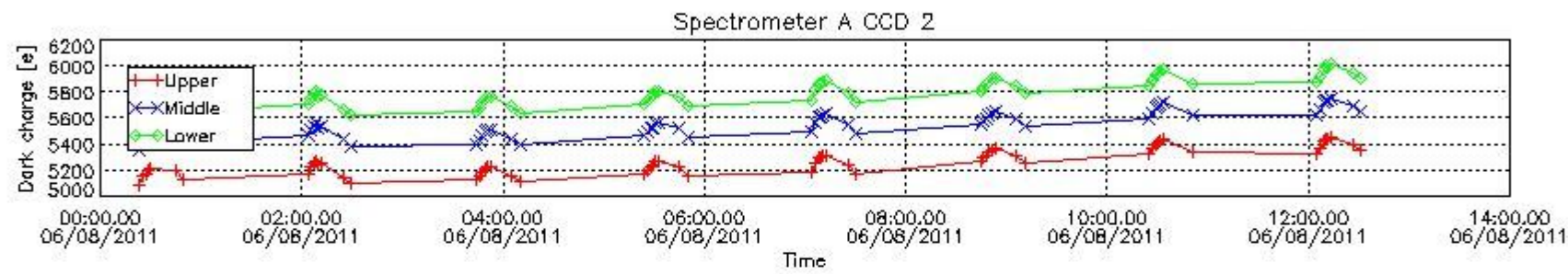
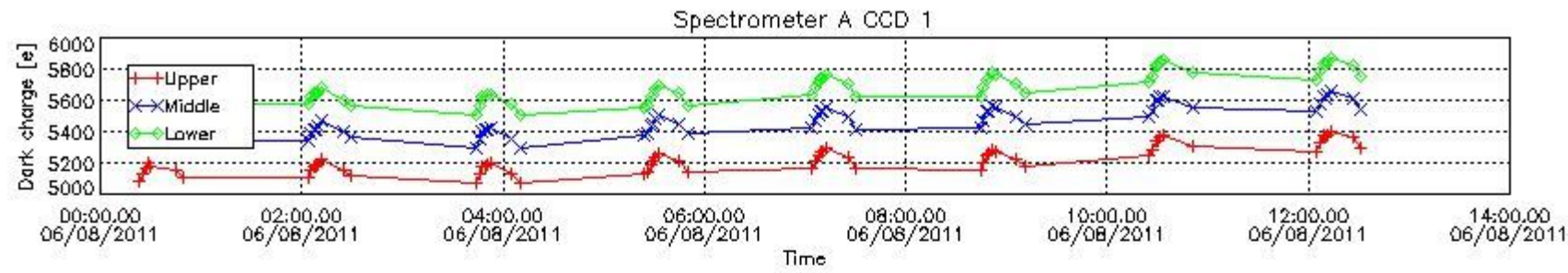
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110806_210218_000000443105_00187_49339_1975.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110806_210522_000000453105_00187_49339_1976.N1	DC map used
GOM_TRA_1PNPDE20110806_211229_000000493105_00187_49339_1977.N1	DC map used
GOM_TRA_1PNPDE20110806_211617_000000483105_00187_49339_1978.N1	DC map used

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



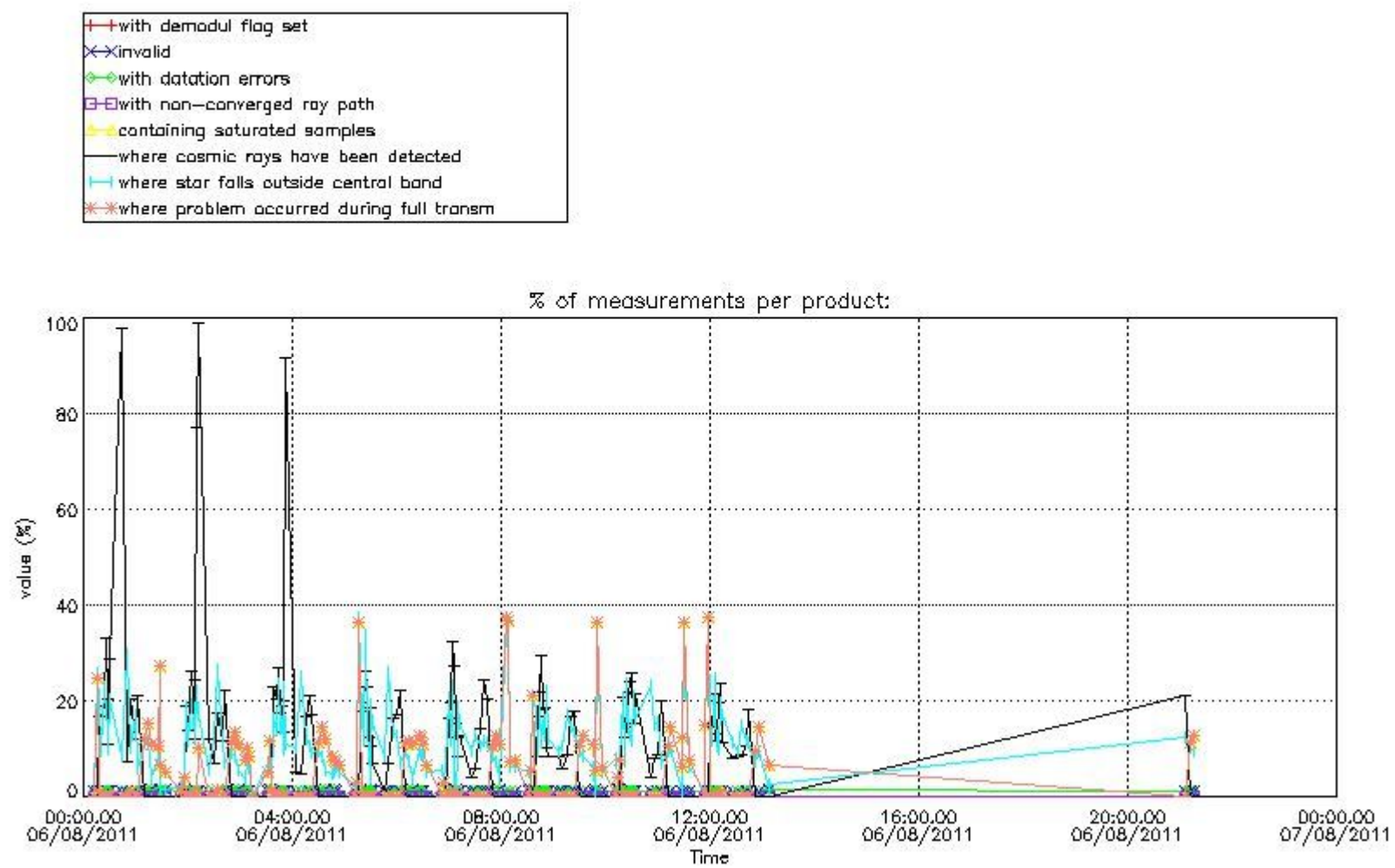
## 5. Demodulation flag and quality information monitoring

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:

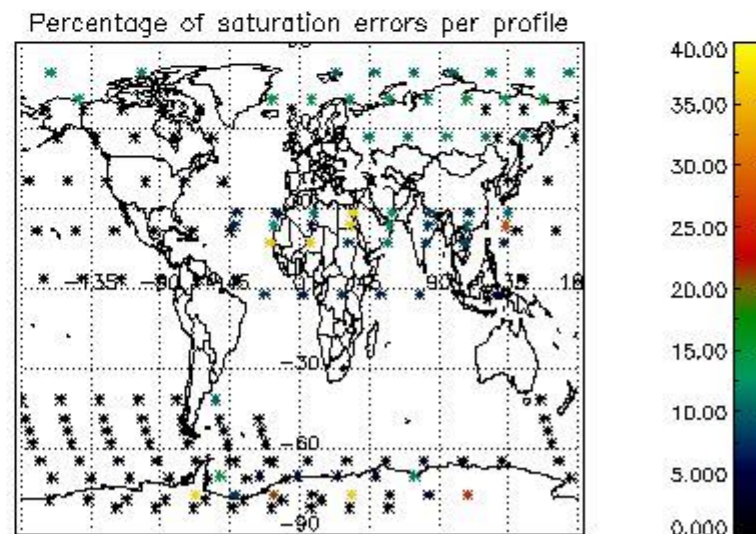
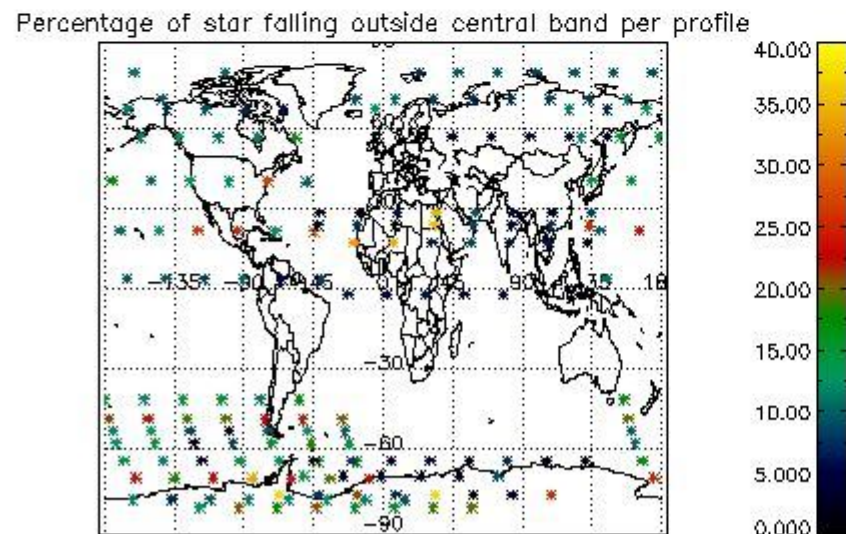
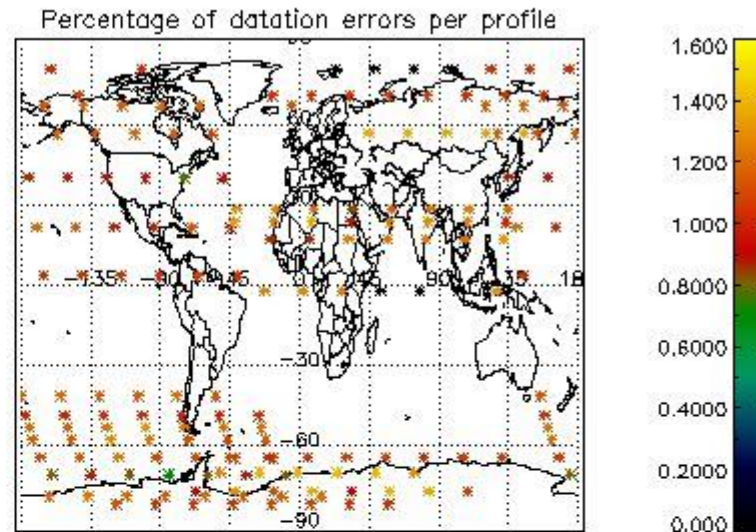
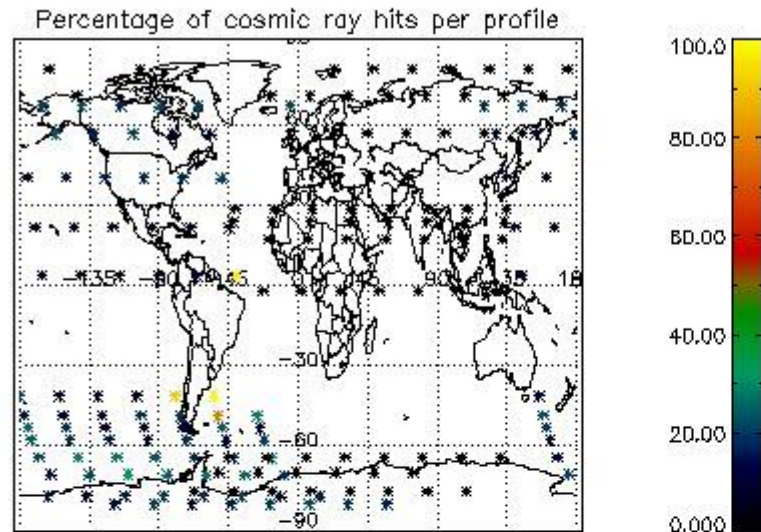
At least one measurement with demodulation flag set:	50.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	46.6292 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





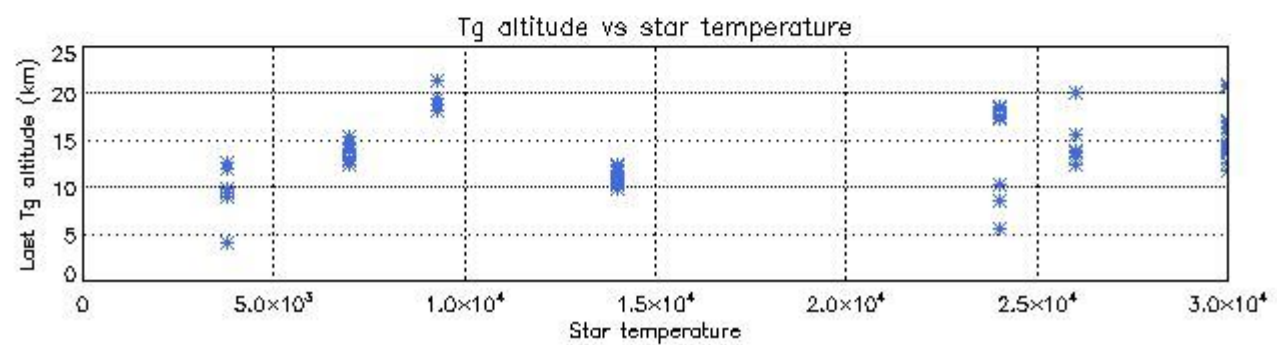
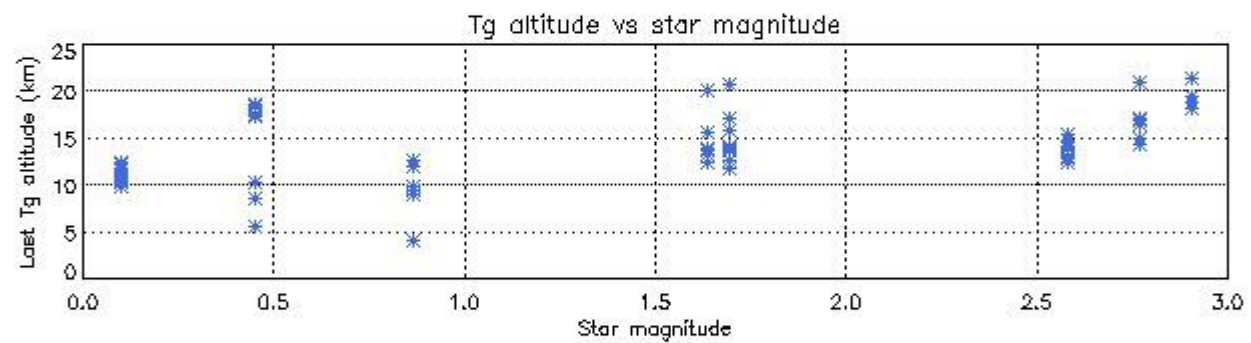
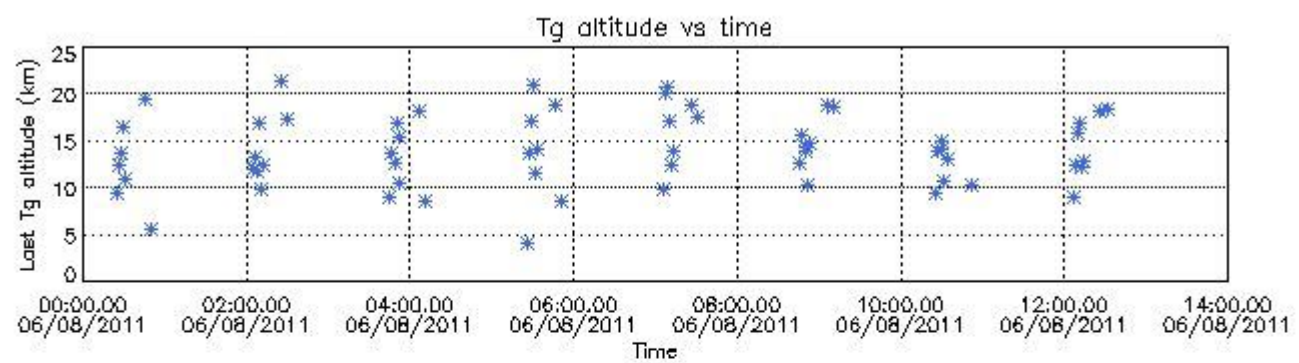
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.973	18.739	NaN
St. deviation:	3.8301	5.8860	NaN
Maximum:	21.290	31.257	NaN
Minimum:	4.1089	3.3856	NaN
Number of data:	62.000	83.000	NaN

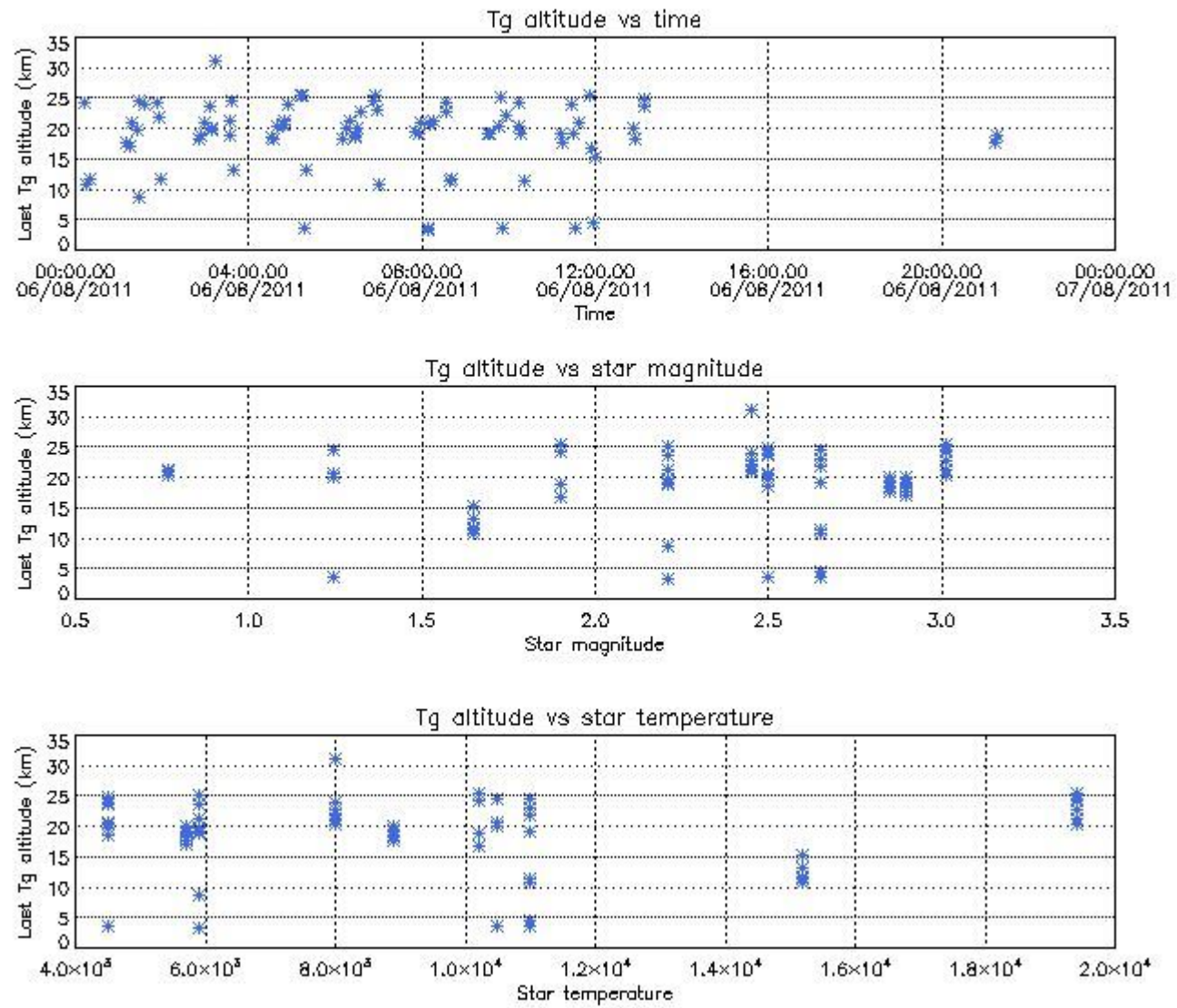
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

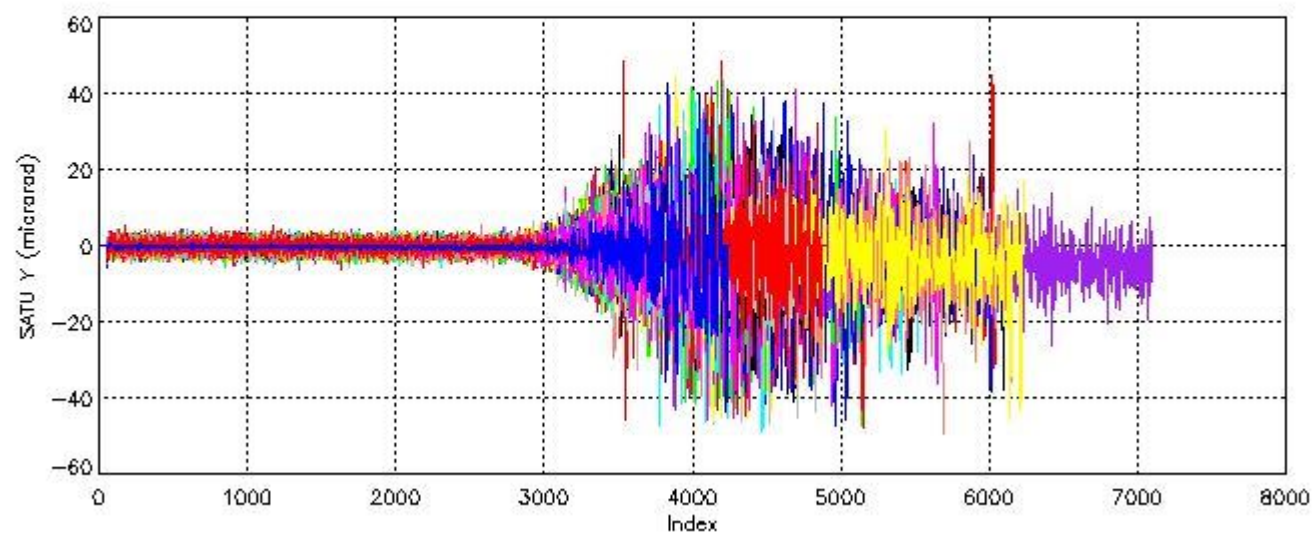
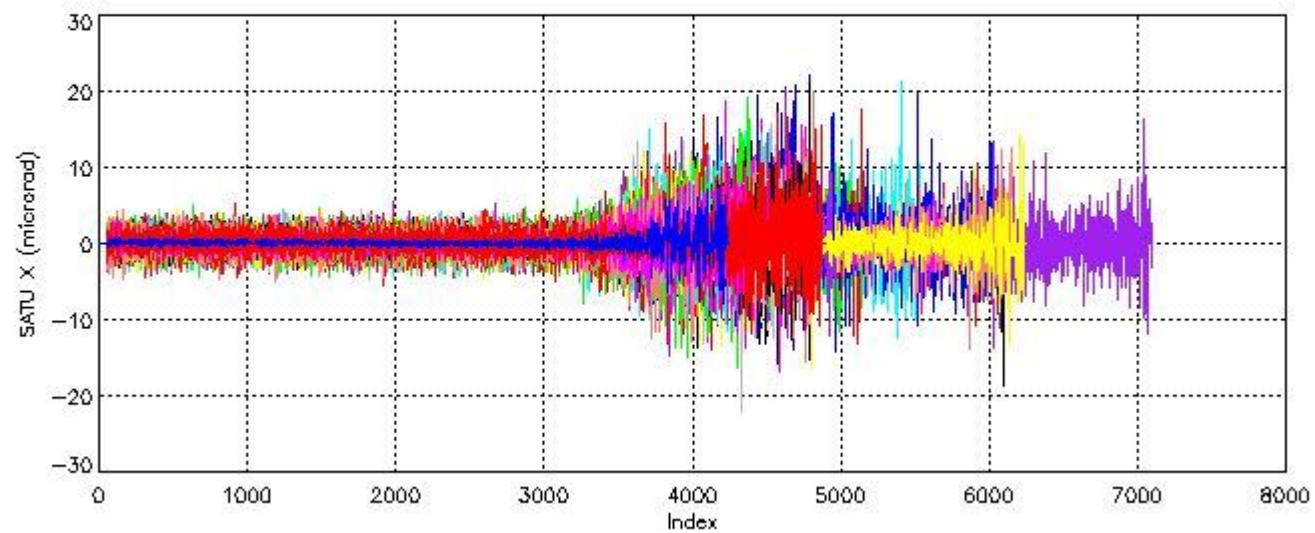


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.12884	-0.24421	0.20982	-0.24973
St. deviation:	0.57297	0.63205	0.80214	0.87735
Maximum:	5.2000	5.2000	6.6000	5.9000
Minimum:	-4.7000	-6.0000	-6.8000	-7.2000

Number of data:	61950.	61950.	81150.	81150.
90Percentile:	0.90000	0.50000	1.3000	0.90000

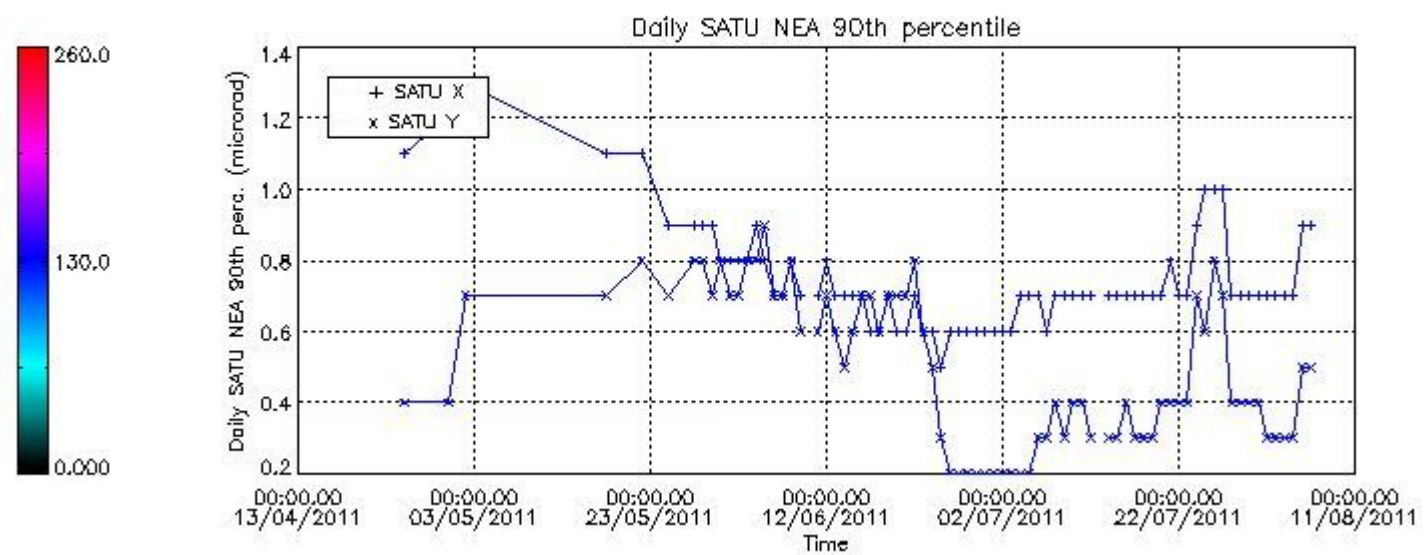
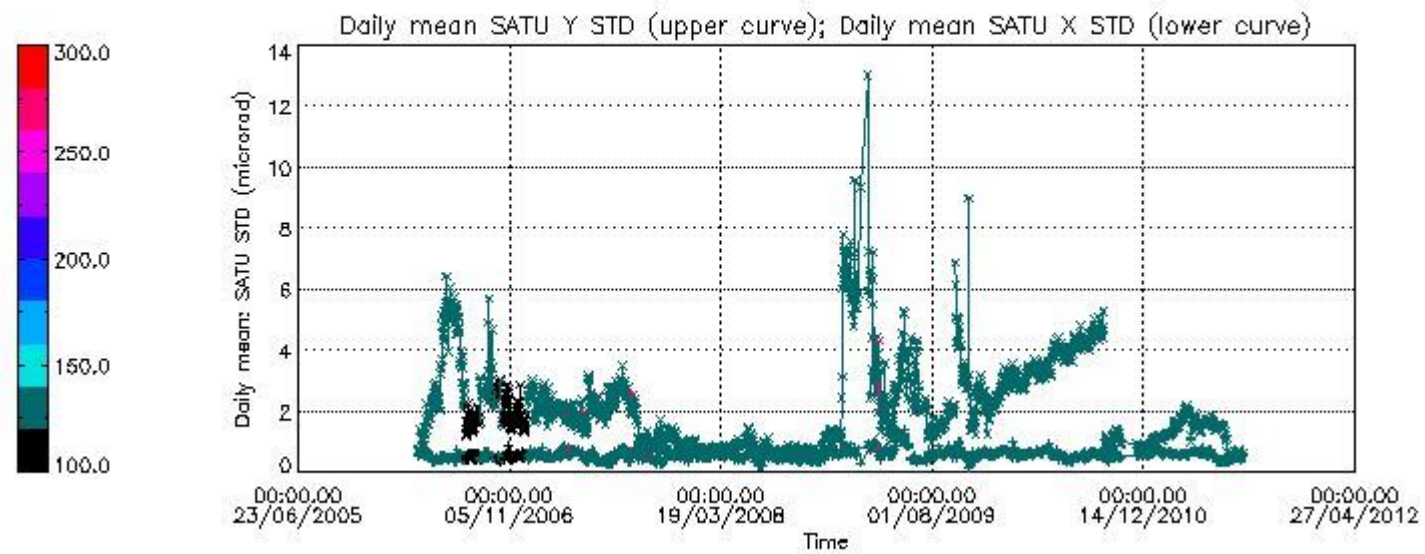
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

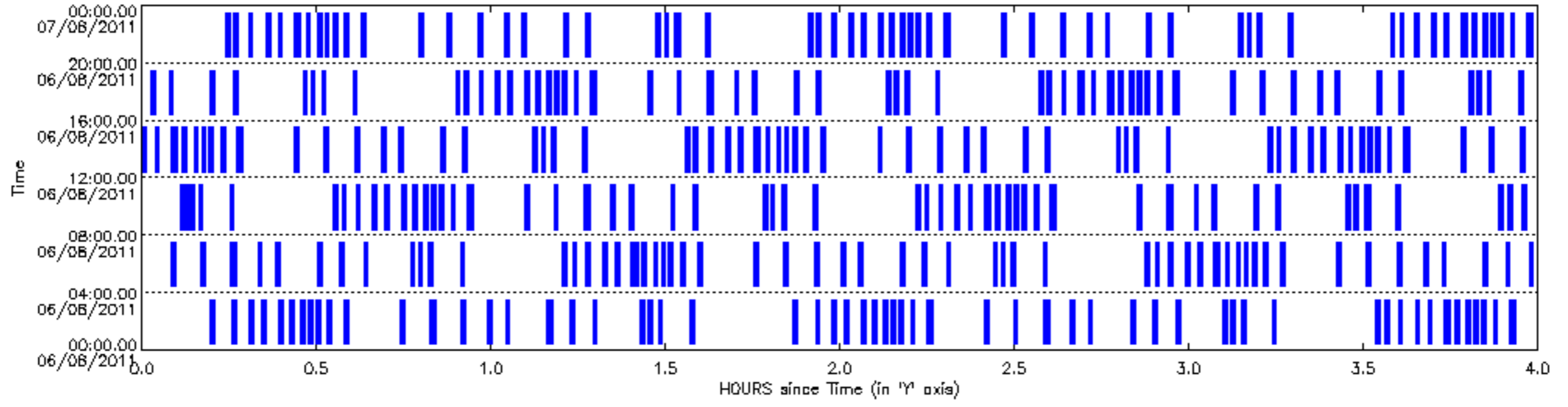
Lower curve: STD of SATU X axis

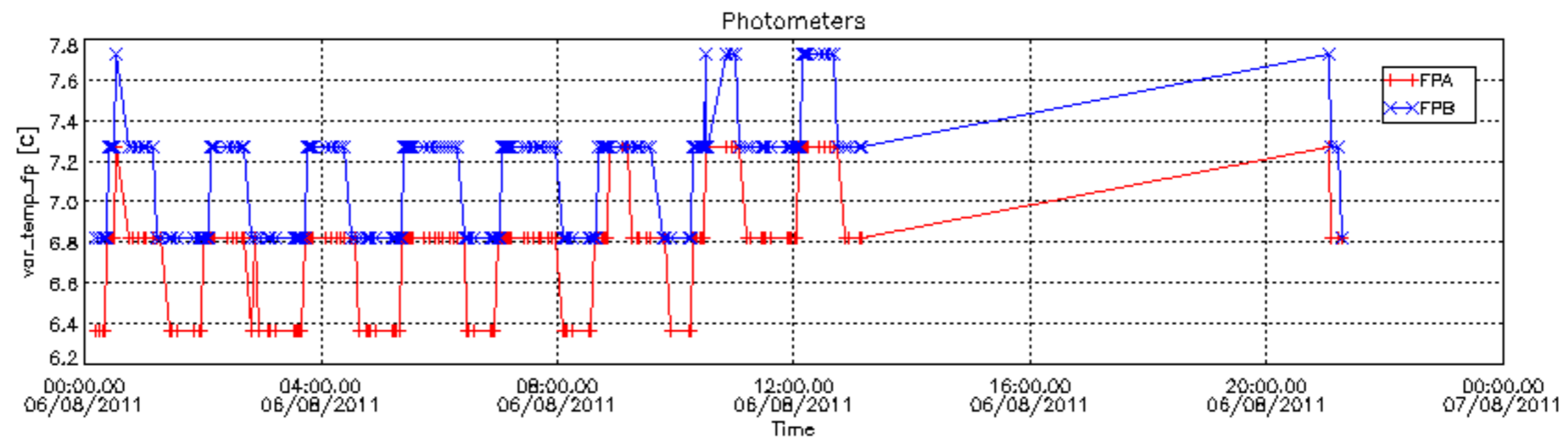
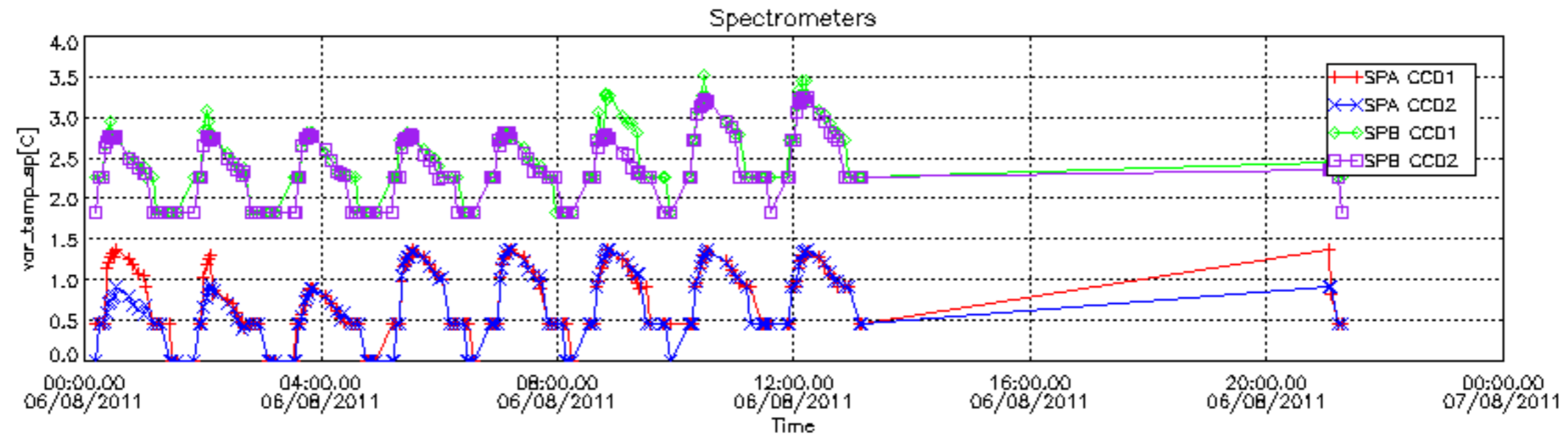


### 8. Auxiliary Data Files used for the production reported in section 2.4

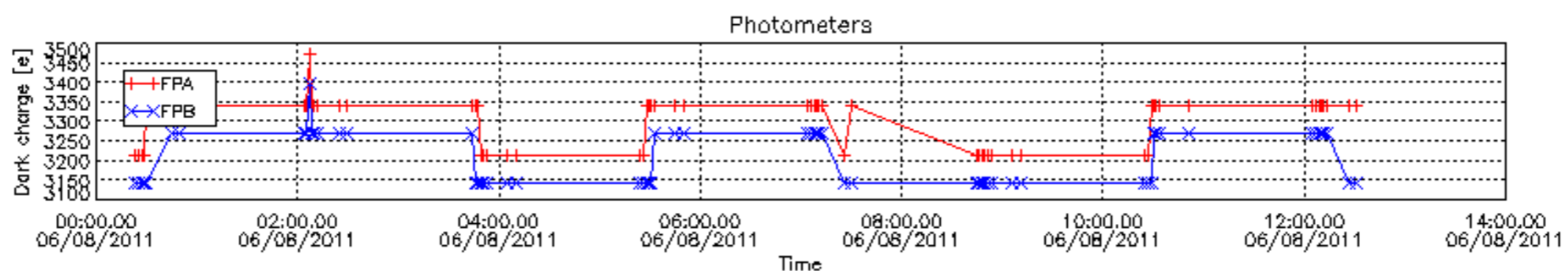
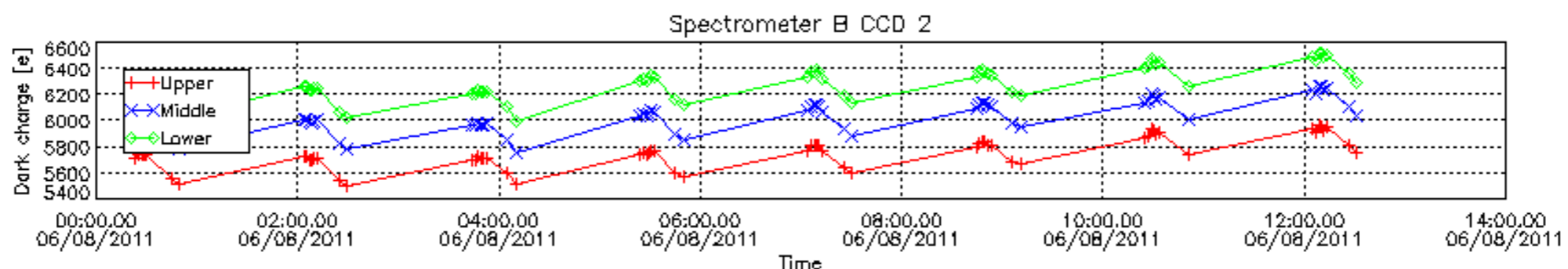
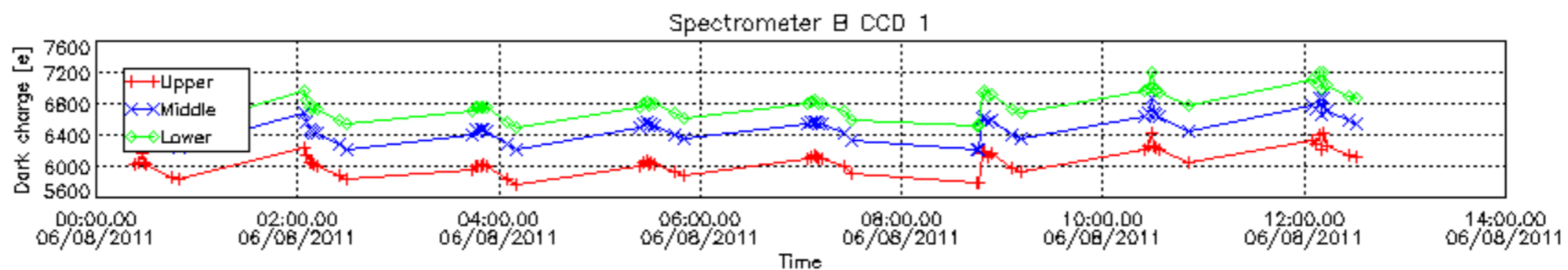
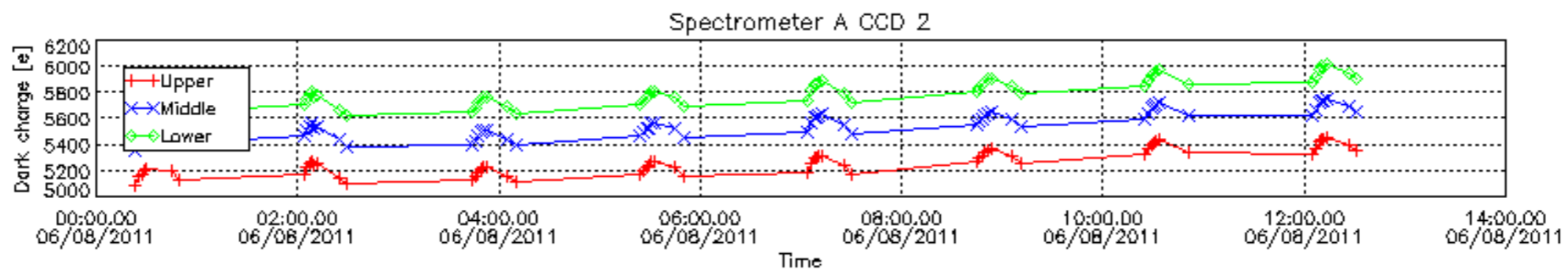
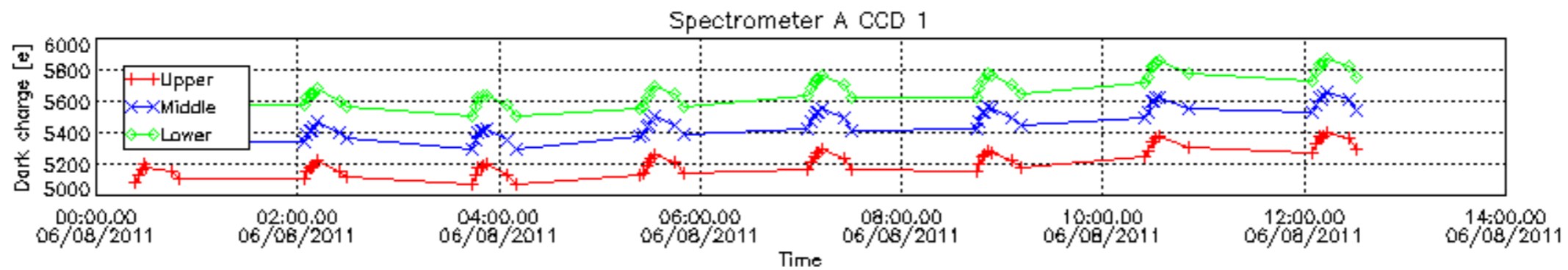
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

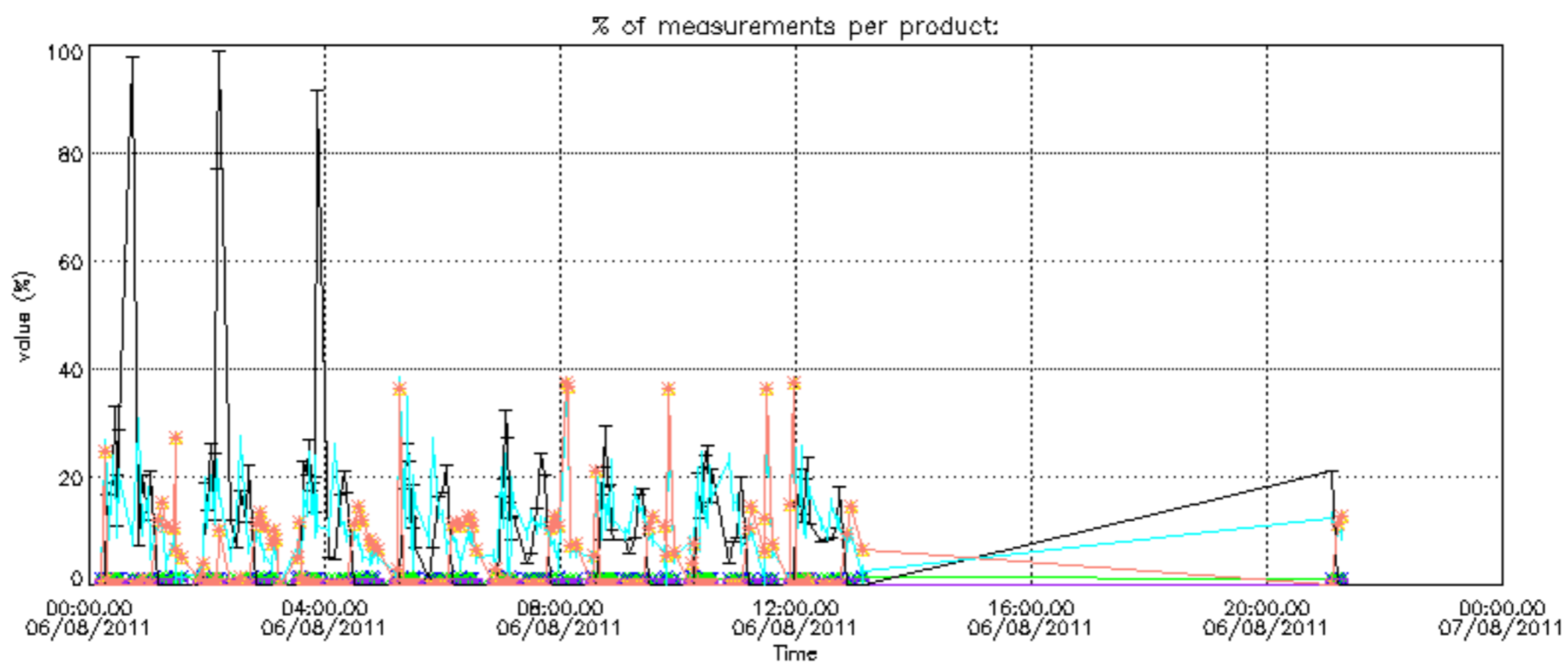
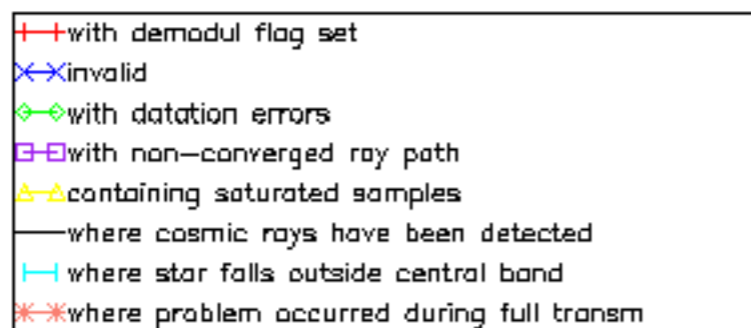
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-AUG-2011 00:11:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110803_080732_20110801_000000_20500101_000000	1	06-AUG-2011 00:11:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	06-AUG-2011 00:11:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-AUG-2011 00:11:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-AUG-2011 00:11:36
ECMWF_FILE	AUX_ECF_AXNECM20110805_062115_20110805_210000_20110806_090000	1	06-AUG-2011 00:11:36
ECMWF_FILE	AUX_ECF_AXNECM20110805_182113_20110806_030000_20110806_150000	45	06-AUG-2011 03:32:04
ECMWF_FILE	AUX_ECA_AXNECM20110806_063220_20110805_210000_20110806_090000	68	06-AUG-2011 05:12:17
ECMWF_FILE	AUX_ECF_AXNECM20110805_182113_20110806_030000_20110806_150000	108	06-AUG-2011 07:54:26
ECMWF_FILE	AUX_ECF_AXNECM20110806_063221_20110806_090000_20110806_210000	131	06-AUG-2011 09:34:40
ECMWF_FILE	AUX_ECF_AXNECM20110806_063221_20110806_210000_20110807_090000	177	06-AUG-2011 21:02:18
OPTIONAL_ECMWF_FILE	MISSING	1	06-AUG-2011 00:11:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110805_102114_20110804_183922_20110814_205308	1	06-AUG-2011 00:11:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110806_103218_20110805_194252_20110815_201624	131	06-AUG-2011 09:34:40



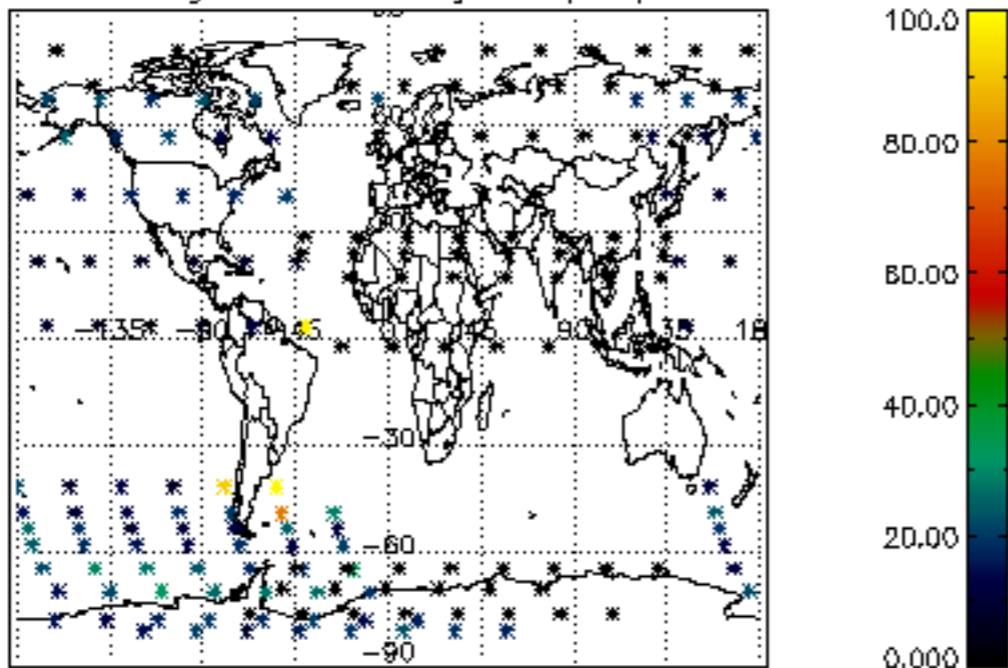




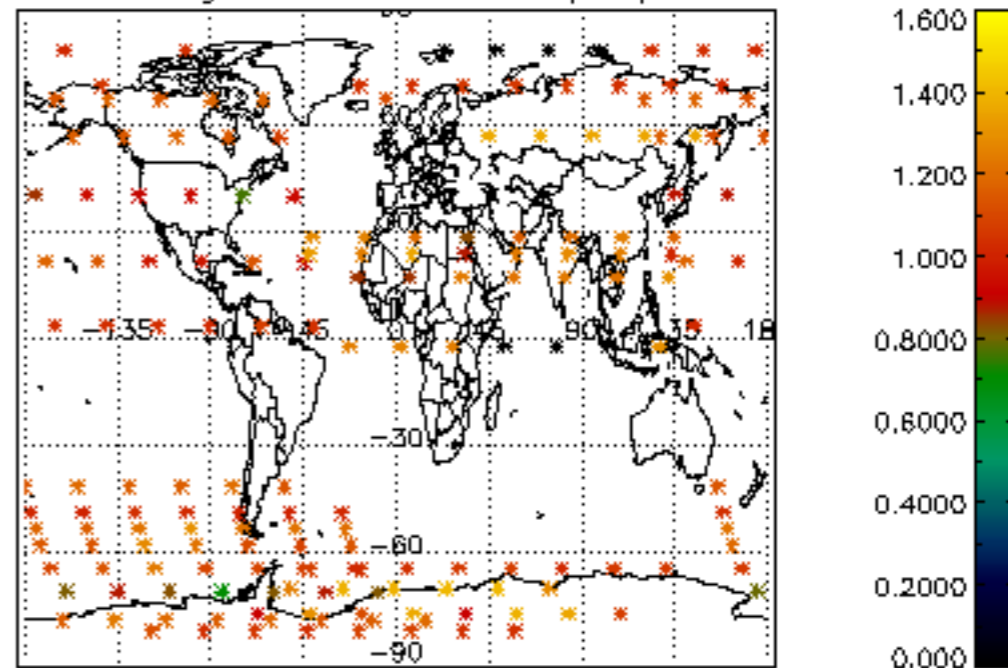




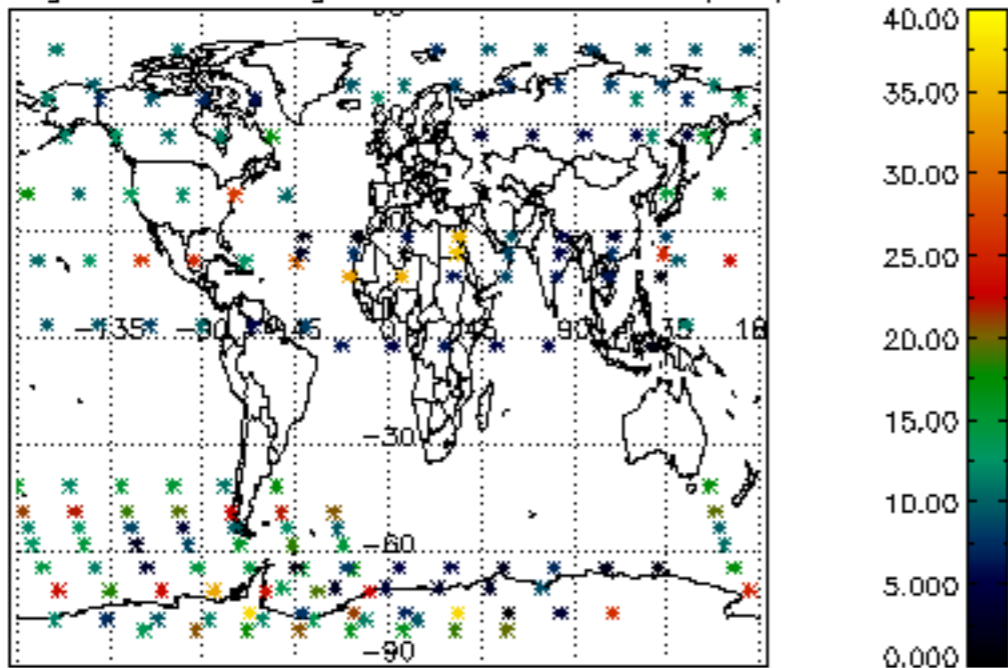
Percentage of cosmic ray hits per profile



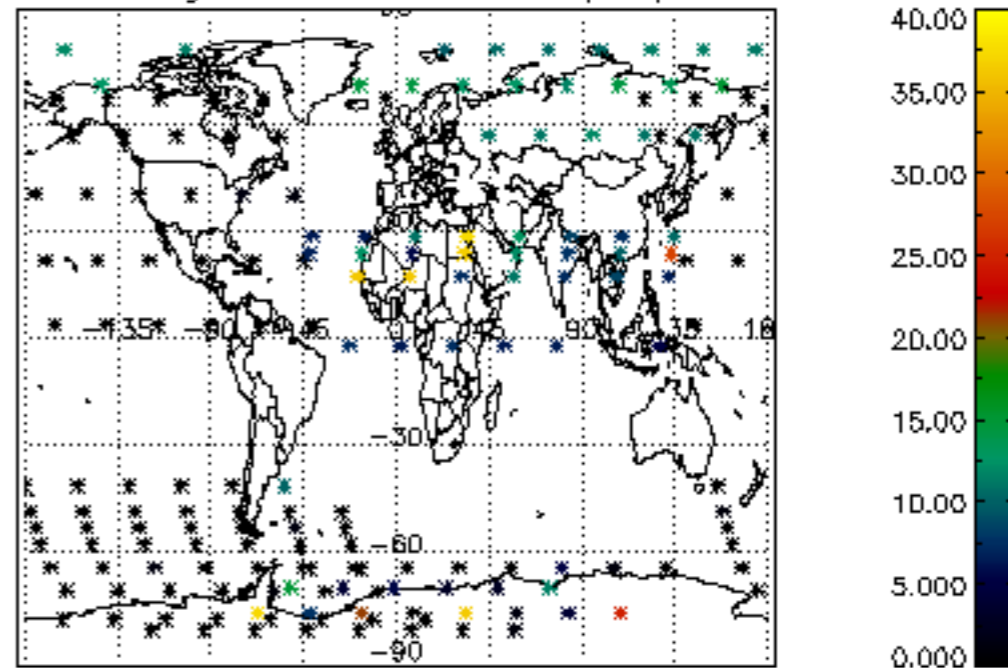
Percentage of datation errors per profile



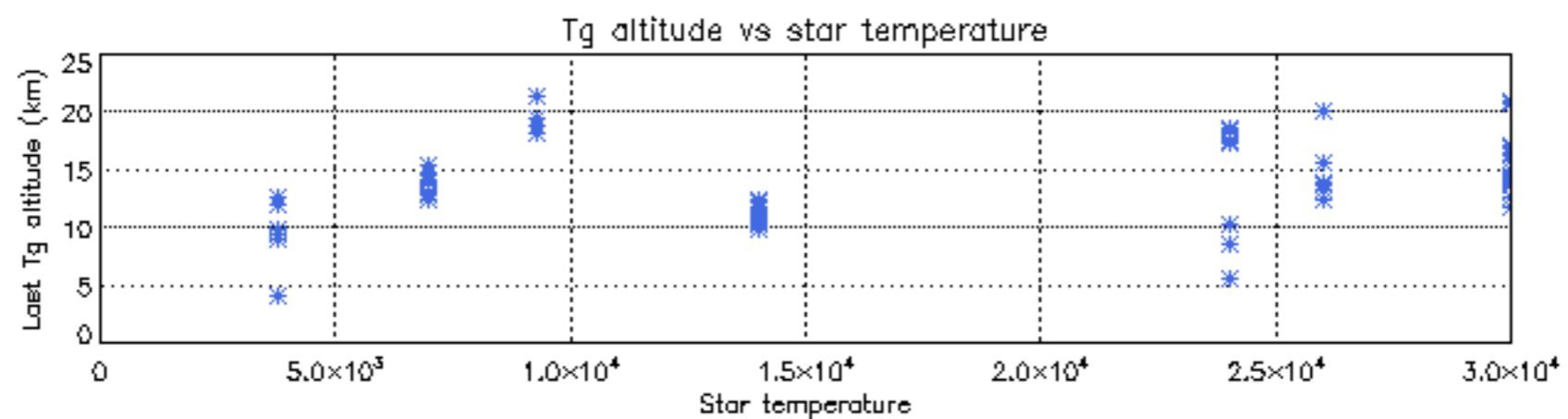
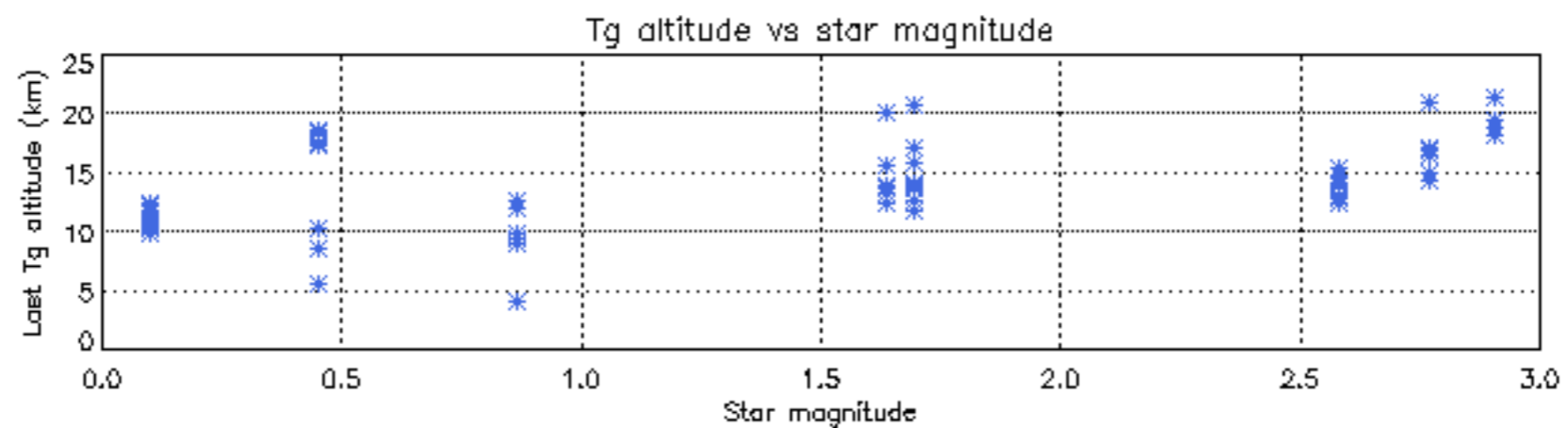
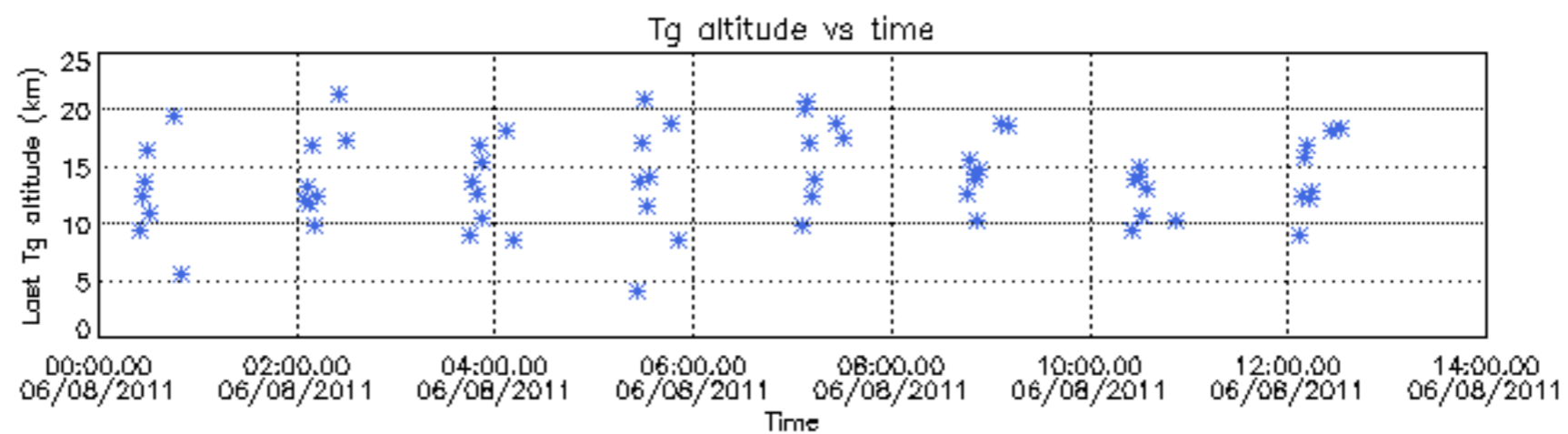
Percentage of star falling outside central band per profile



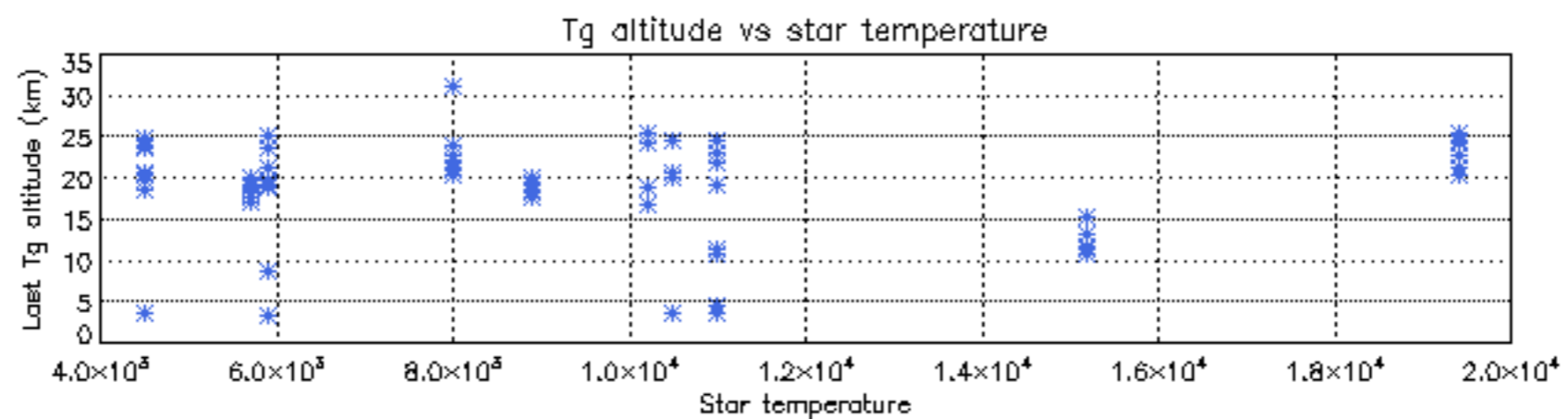
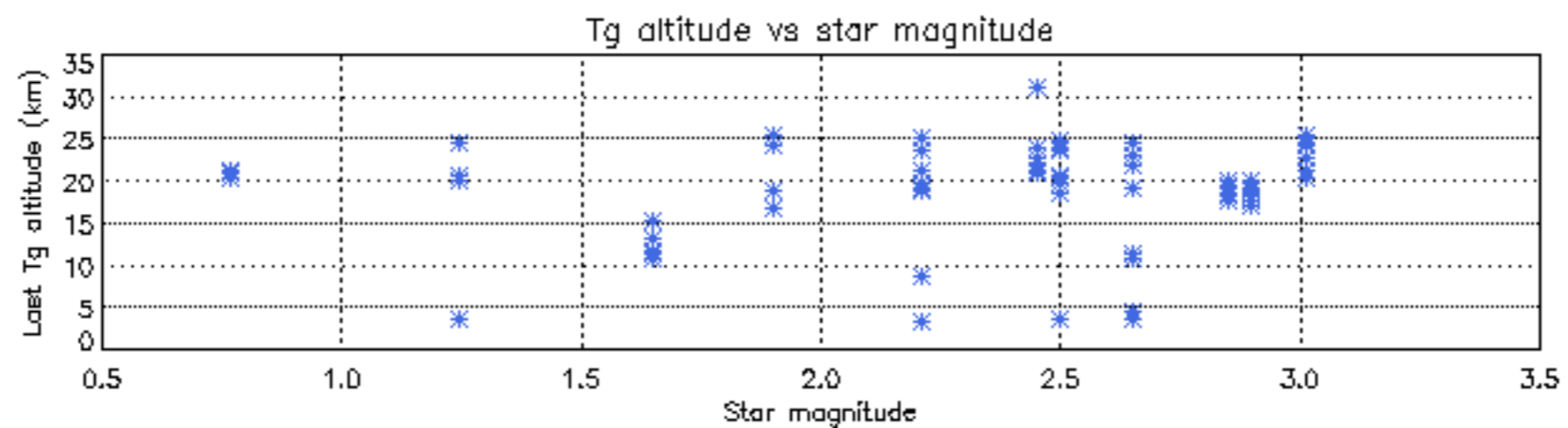
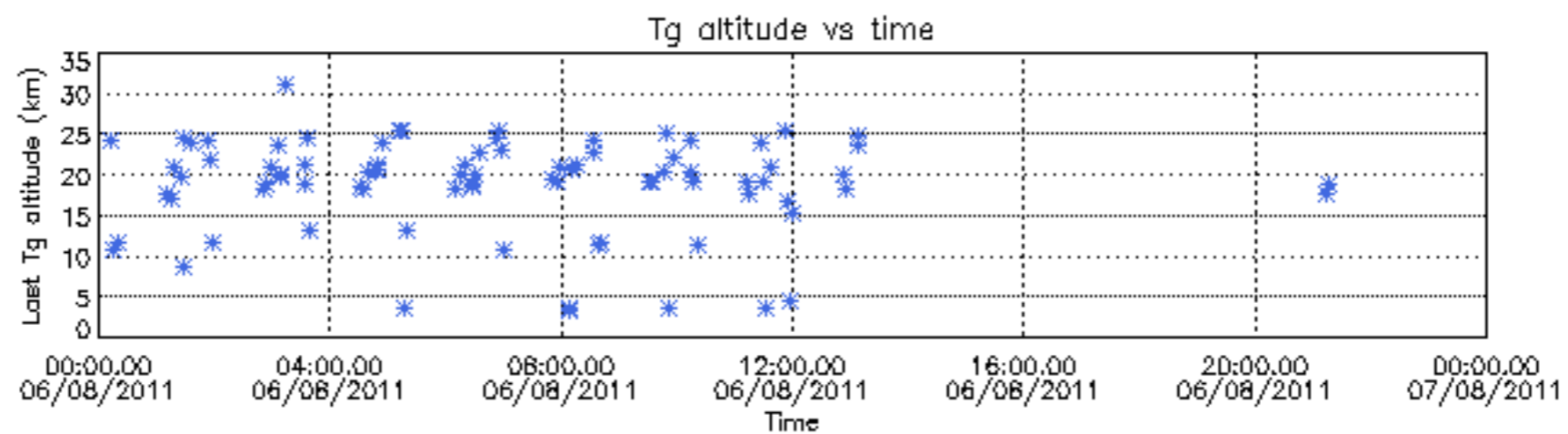
Percentage of saturation errors per profile

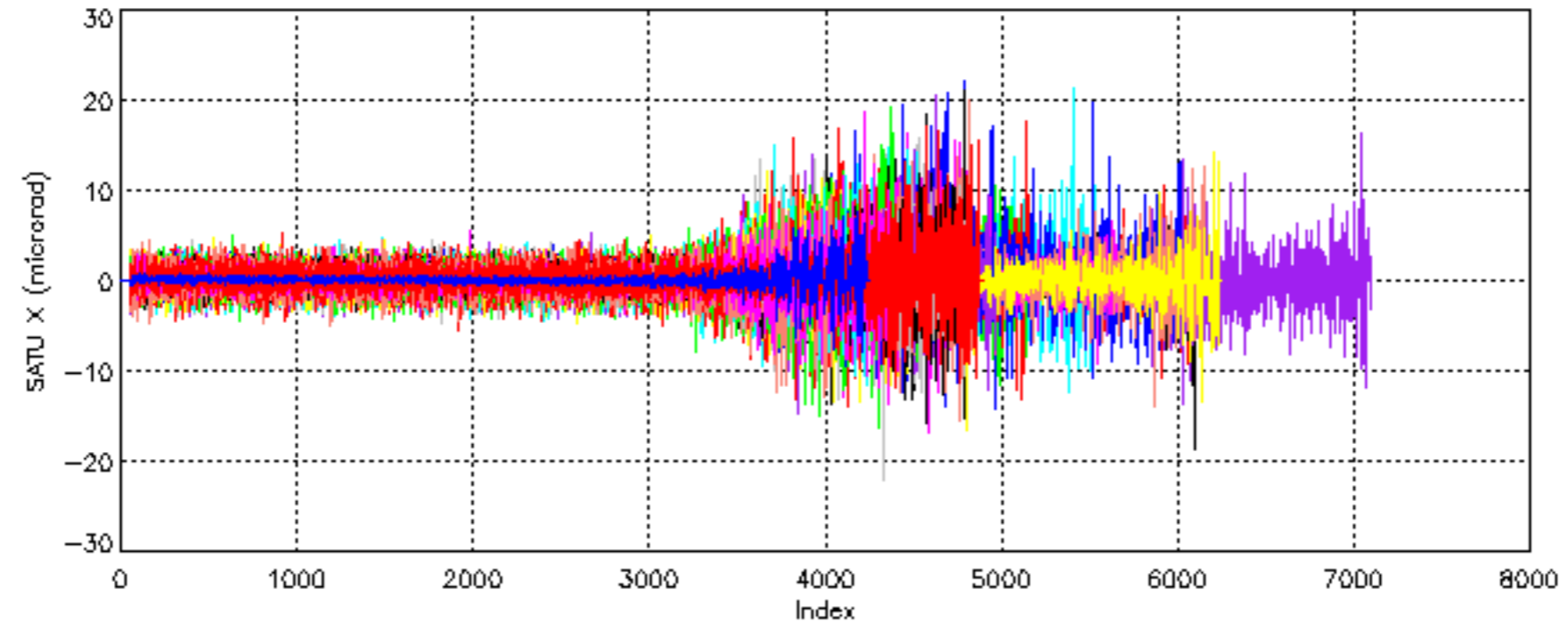


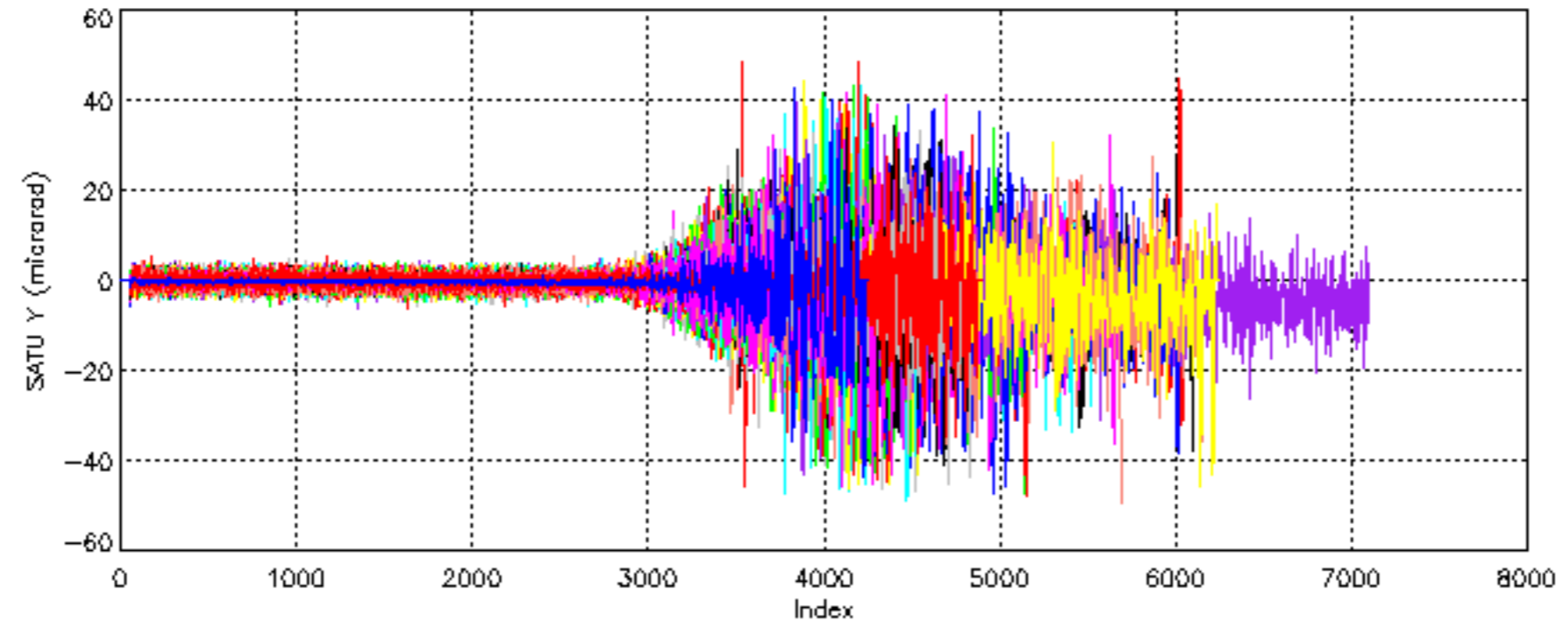
Tangent altitude at which the star is lost

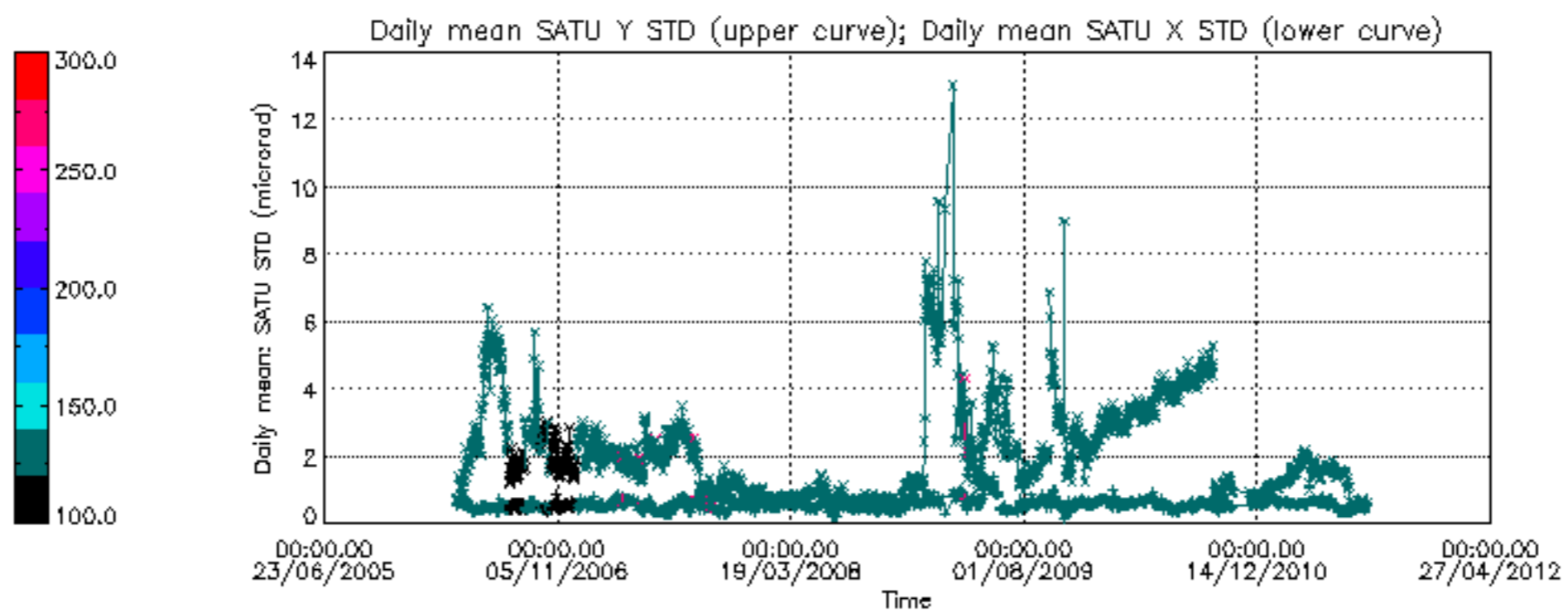


Tangent altitude at which the star is lost

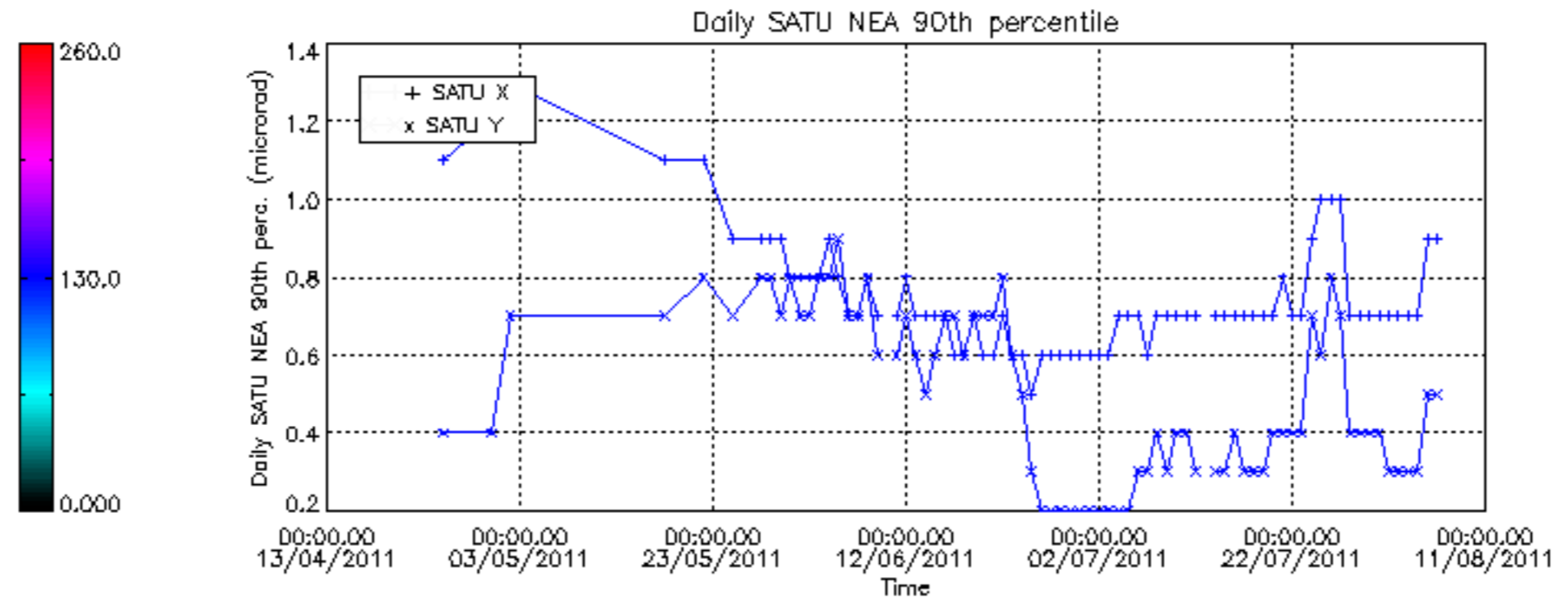












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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110801_103324_000008403105_00109_49261_4939.N1
 1; 313.1; 01-AUG-2011 10:33:24; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;49261
 2; 604.0; 01-AUG-2011 10:38:15; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;49261
 3; 920.3; 01-AUG-2011 10:43:31; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;49261
 4; 1107.1; 01-AUG-2011 10:46:38; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;49261
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8; 1123.9; 04-AUG-2011 02:15:46; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;49299
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 15; 5037.1; 06-AUG-2011 18:49:50; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;49337  
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 13; 74.4; 07-AUG-2011 06:48:59; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;49345  
 14; 371.1; 07-AUG-2011 06:53:56; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49345  
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 9; 1568.1; 07-AUG-2011 02:13:11; Bright; 48.5; 142; 49Del Cap ; 2.85; 8900;occ; 97; 0;49342



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12; 2603.9; 07-AUG-2011 02:30:27; Bright; 40.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 80; 0;49342
13; 2710.4; 07-AUG-2011 02:32:13; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;49342
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6; 2595.2; 09-AUG-2011 19:39:23; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;49381
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13; 4829.0; 09-AUG-2011 20:16:37; Dark ; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;49381
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 32; 7024.9; 16-AUG-2011 03:14:11; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;49472  
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5; 2484.8; 16-AUG-2011 11:59:54; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;49477
6; 2581.4; 16-AUG-2011 12:01:31; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;49477

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13; 4916.6; 16-AUG-2011 14:20:40; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;49478  
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22; 6488.5; 17-AUG-2011 19:10:50; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49496
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3; 1584.9; 17-AUG-2011 19:29:20; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;49496
4; 1787.5; 17-AUG-2011 19:32:43; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;49496
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6; 2089.8; 17-AUG-2011 19:37:45; Bright; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;49496
7; 2481.6; 17-AUG-2011 19:44:17; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;49496
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9; 2673.3; 17-AUG-2011 19:47:29; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;49496
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12; 4167.6; 17-AUG-2011 20:12:23; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;49496
13; 4347.5; 17-AUG-2011 20:15:23; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;49496
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16; 4924.8; 17-AUG-2011 20:25:00; Dark ; 60.5; 14; 58Alp Ori ; 0.87; 3000;occ; 121; 0;49496
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23; 6489.1; 17-AUG-2011 20:51:04; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49497
24; 6836.7; 17-AUG-2011 20:56:52; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;49497
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 7; 825.2; 18-AUG-2011 01:57:36; Dark ; 62.0; 84; Alp Phe ; 2.40; 4500;occ; 124; 0;49500  
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 9; 1258.3; 18-AUG-2011 02:04:49; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;49500  
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 14; 2481.2; 18-AUG-2011 02:25:12; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;49500  
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4; 1787.4; 18-AUG-2011 20:36:13; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;49511
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7; 2479.7; 18-AUG-2011 20:47:45; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;49511
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5; 336.3; 22-AUG-2011 22:45:46; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;49570
6; 523.5; 22-AUG-2011 22:48:53; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49570
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25; 5287.8; 23-AUG-2011 00:08:18; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0;49570
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 8; 2966.6; 26-AUG-2011 19:22:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;49625  
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 3; 1792.1; 27-AUG-2011 16:45:52; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;49638  
 4; 1885.2; 27-AUG-2011 16:47:25; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;49638  
 5; 2065.8; 27-AUG-2011 16:50:26; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49638  
 6; 2511.8; 27-AUG-2011 16:57:52; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49638  
 7; 2964.8; 27-AUG-2011 17:05:25; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49638  
 8; 3156.5; 27-AUG-2011 17:08:36; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;49638  
 9; 3286.6; 27-AUG-2011 17:10:46; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49638  
 10; 4144.3; 27-AUG-2011 17:25:04; Bright; 32.0; 6; 13Alp Aur ; 0.08; 3400;occ; 64; 0;49638  
 11; 4353.9; 27-AUG-2011 17:28:34; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;49638  
 12; 4648.1; 27-AUG-2011 17:33:28; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49638  
 13; 4750.6; 27-AUG-2011 17:35:10; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;49638  
 14; 4838.4; 27-AUG-2011 17:36:38; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49638  
 15; 5006.0; 27-AUG-2011 17:39:26; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;49638  
 16; 5321.5; 27-AUG-2011 17:44:41; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;49638  
 17; 5541.2; 27-AUG-2011 17:48:21; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;49638  
 18; 5724.5; 27-AUG-2011 17:51:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49638  
 19; 6435.0; 27-AUG-2011 18:03:15; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49639  
 20; 6581.6; 27-AUG-2011 18:05:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49639  
 21; 6938.0; 27-AUG-2011 18:11:38; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;49639

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1; 1306.1; 27-AUG-2011 19:58:14; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;49640  
 2; 1602.3; 27-AUG-2011 20:03:10; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 0;49640  
 3; 1792.2; 27-AUG-2011 20:06:20; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49640  
 4; 1885.1; 27-AUG-2011 20:07:53; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49640  
 5; 2065.5; 27-AUG-2011 20:10:53; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;49640  
 6; 2510.6; 27-AUG-2011 20:18:19; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;49640  
 7; 2964.3; 27-AUG-2011 20:25:52; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;49640  
 8; 3155.1; 27-AUG-2011 20:29:03; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49640  
 9; 3284.9; 27-AUG-2011 20:31:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49640  
 10; 4143.7; 27-AUG-2011 20:45:32; Bright; 26.0; 6; 13Alp Aur ; 0.08; 3400;occ; 52; 0;49640  
 11; 4353.8; 27-AUG-2011 20:49:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;49640  
 12; 4648.6; 27-AUG-2011 20:53:57; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49640  
 13; 4751.3; 27-AUG-2011 20:55:39; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;49640  
 14; 4838.8; 27-AUG-2011 20:57:07; Dark ; 40.5; 153; 3Bet CMI ; 2.89; 13100;occ; 81; 0;49640  
 15; 5007.3; 27-AUG-2011 20:59:55; Dark ; 6.0; 14; 58Alp Ori ; 0.87; 3000;occ; 12; 0;49640

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 2; -469.9; 27-AUG-2011 22:49:06; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;49641  
 3; -286.4; 27-AUG-2011 22:52:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49641  
 4; 424.5; 27-AUG-2011 23:04:00; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;49642  
 5; 569.5; 27-AUG-2011 23:06:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49642  
 6; 925.7; 27-AUG-2011 23:12:22; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49642  
 7; 1306.5; 27-AUG-2011 23:18:42; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49642  
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 9; 1792.0; 27-AUG-2011 23:26:48; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49642  
 10; 1884.9; 27-AUG-2011 23:28:21; Bright; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;49642  
 11; 2065.3; 27-AUG-2011 23:31:21; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49642  
 12; 2509.3; 27-AUG-2011 23:38:45; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;49642  
 13; 2964.0; 27-AUG-2011 23:46:20; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;49642  
 14; 3153.7; 27-AUG-2011 23:49:29; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;49642  
 15; 3283.6; 27-AUG-2011 23:51:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;49642  
 16; 4190.2; 28-AUG-2011 00:06:46; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;49642  
 17; 4353.6; 28-AUG-2011 00:09:29; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;49642  
 18; 4649.0; 28-AUG-2011 00:14:25; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49642  
 19; 4751.8; 28-AUG-2011 00:16:08; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;49642  
 20; 4839.3; 28-AUG-2011 00:17:35; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49642  
 21; 5008.6; 28-AUG-2011 00:20:24; Dark ; 67.5; 14; 58Alp Ori ; 0.87; 3000;occ; 135; 0;49642  
 22; 5240.2; 28-AUG-2011 00:24:16; Dark ; 52.0; 33; 50Zet Ori ; 1.77; 30000;occ; 104; 0;49642  
 23; 5323.3; 28-AUG-2011 00:25:39; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;49642

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1; 1305.8; 27-AUG-2011 18:18:00; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49639  
 2; 1602.2; 27-AUG-2011 18:22:56; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;49639  
 3; 1792.2; 27-AUG-2011 18:26:06; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49639  
 4; 1885.2; 27-AUG-2011 18:27:39; Bright; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;49639  
 5; 2065.6; 27-AUG-2011 18:30:40; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49639

6; 2511.1; 27-AUG-2011 18:38:05; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49639  
7; 2964.6; 27-AUG-2011 18:45:39; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49639  
8; 3155.8; 27-AUG-2011 18:48:50; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49639  
9; 3285.7; 27-AUG-2011 18:51:00; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;49639  
10; 4143.9; 27-AUG-2011 19:05:18; Bright; 32.0; 6; 13Alp Aur ; 0.08; 3400;occ; 64; 0;49639  
11; 4353.8; 27-AUG-2011 19:08:48; Bright; 56.5; 107; 37The Aur ; 2.65; 11000;occ; 113; 0;49639  
12; 4648.3; 27-AUG-2011 19:13:42; Dark ; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;49639  
13; 4751.0; 27-AUG-2011 19:15:25; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;49639  
14; 4838.6; 27-AUG-2011 19:16:52; Dark ; 41.0; 153; 3Bet CMi ; 2.89; 13100;occ; 82; 0;49639  
15; 5006.6; 27-AUG-2011 19:19:40; Dark ; 64.5; 14; 58Alp Ori ; 0.87; 3000;occ; 129; 0;49639  
16; 5322.1; 27-AUG-2011 19:24:56; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;49639  
17; 5542.2; 27-AUG-2011 19:28:36; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;49639  
18; 5725.6; 27-AUG-2011 19:31:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49639  
19; 6436.2; 27-AUG-2011 19:43:30; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;49640  
20; 6582.2; 27-AUG-2011 19:45:56; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;49640  
21; 6938.6; 27-AUG-2011 19:51:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;49640

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1; -772.7; 28-AUG-2011 02:04:31; Dark ; 52.0; 33; 50Zet Ori ; 1.77; 30000;occ; 104; 0;49643  
2; -689.8; 28-AUG-2011 02:05:54; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;49643  
3; -467.7; 28-AUG-2011 02:09:36; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;49643  
4; -284.2; 28-AUG-2011 02:12:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49643  
5; 427.1; 28-AUG-2011 02:24:31; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49644  
6; 570.8; 28-AUG-2011 02:26:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;49644  
7; 927.0; 28-AUG-2011 02:32:51; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49644  
8; 1307.3; 28-AUG-2011 02:39:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49644  
9; 1602.8; 28-AUG-2011 02:44:06; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;49644  
10; 1792.3; 28-AUG-2011 02:47:16; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49644  
11; 1884.9; 28-AUG-2011 02:48:48; Bright; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;49644  
12; 2065.2; 28-AUG-2011 02:51:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49644  
13; 2508.3; 28-AUG-2011 02:59:12; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49644  
14; 2963.9; 28-AUG-2011 03:06:48; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;49644  
15; 3152.5; 28-AUG-2011 03:09:56; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49644  
16; 3282.3; 28-AUG-2011 03:12:06; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;49644

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3; -1364.3; 28-AUG-2011 03:34:53; Dark ; 57.0; 151; 13Mu Gem ; 2.89; 3000;occ; 114; 0;49644  
4; -1261.2; 28-AUG-2011 03:36:36; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;49644  
5; -1174.1; 28-AUG-2011 03:38:03; Dark ; 40.0; 153; 3Bet CMi ; 2.89; 13100;occ; 80; 0;49644  
6; -1003.9; 28-AUG-2011 03:40:54; Dark ; 72.5; 14; 58Alp Ori ; 0.87; 3000;occ; 145; 0;49644  
7; -771.7; 28-AUG-2011 03:44:46; Dark ; 44.0; 33; 50Zet Ori ; 1.77; 30000;occ; 88; 0;49644  
8; -689.3; 28-AUG-2011 03:46:08; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;49644  
9; -466.5; 28-AUG-2011 03:49:51; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;49644  
10; -283.2; 28-AUG-2011 03:52:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49644  
11; 428.3; 28-AUG-2011 04:04:46; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49645  
12; 571.4; 28-AUG-2011 04:07:09; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49645  
13; 928.0; 28-AUG-2011 04:13:06; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;49645  
14; 1307.8; 28-AUG-2011 04:19:25; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49645  
15; 1603.2; 28-AUG-2011 04:24:21; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;49645  
16; 1792.5; 28-AUG-2011 04:27:30; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;49645  
17; 1885.0; 28-AUG-2011 04:29:03; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49645  
18; 2065.4; 28-AUG-2011 04:32:03; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49645  
19; 2508.0; 28-AUG-2011 04:39:26; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49645  
20; 2963.9; 28-AUG-2011 04:47:01; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;49645  
21; 3152.0; 28-AUG-2011 04:50:10; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49645  
22; 3281.6; 28-AUG-2011 04:52:19; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;49645

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3; -1363.9; 28-AUG-2011 05:15:08; Dark ; 53.0; 151; 13Mu Gem ; 2.89; 3000;occ; 106; 0;49645  
4; -1260.8; 28-AUG-2011 05:16:51; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;49645  
5; -1173.7; 28-AUG-2011 05:18:18; Dark ; 40.0; 153; 3Bet CMi ; 2.89; 13100;occ; 80; 0;49645  
6; -1003.1; 28-AUG-2011 05:21:09; Dark ; 66.0; 14; 58Alp Ori ; 0.87; 3000;occ; 132; 0;49645  
7; -770.7; 28-AUG-2011 05:25:01; Dark ; 44.0; 33; 50Zet Ori ; 1.77; 30000;occ; 88; 0;49645  
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9; -465.6; 28-AUG-2011 05:30:06; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;49645  
10; -282.1; 28-AUG-2011 05:33:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49645  
11; 429.5; 28-AUG-2011 05:45:01; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49646

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13; 928.5; 28-AUG-2011 05:53:20; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49646
14; 1308.1; 28-AUG-2011 05:59:40; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49646
15; 1603.1; 28-AUG-2011 06:04:35; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;49646
16; 1792.7; 28-AUG-2011 06:07:44; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49646
17; 1884.9; 28-AUG-2011 06:09:17; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49646
18; 2065.3; 28-AUG-2011 06:12:17; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;49646
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3;-1363.6; 28-AUG-2011 06:55:22; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49646
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5;-1173.4; 28-AUG-2011 06:58:32; Dark ; 38.0; 153; 3Bet CMi ; 2.89; 13100;occ; 76; 0;49646
6;-1002.4; 28-AUG-2011 07:01:23; Dark ; 73.0; 14; 58Alp Ori ; 0.87; 3000;occ; 146; 0;49646
7; -769.6; 28-AUG-2011 07:05:16; Dark ; 35.0; 33; 50Zet Ori ; 1.77; 30000;occ; 70; 0;49646
8; -688.3; 28-AUG-2011 07:06:37; Dark ; 49.0; 1; 9Alp CMa ; -1.44; 11000;occ; 98; 0;49646
9; -464.4; 28-AUG-2011 07:10:21; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;49646
10; -281.0; 28-AUG-2011 07:13:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49646
11; 430.7; 28-AUG-2011 07:25:16; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49647
12; 572.7; 28-AUG-2011 07:27:38; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;49647
13; 929.1; 28-AUG-2011 07:33:35; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;49647
14; 1308.4; 28-AUG-2011 07:39:54; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49647
15; 1603.3; 28-AUG-2011 07:44:49; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;49647
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3; 1613.7; 30-AUG-2011 19:53:22; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;49683
4; 1883.6; 30-AUG-2011 19:57:52; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;49683
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8; 3127.5; 30-AUG-2011 20:18:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49683
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13; 954.0; 31-AUG-2011 04:03:32; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;49688
14; 1320.1; 31-AUG-2011 04:09:38; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49688
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