

# GOMOS Daily Report 25-DEC-2009

## 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	28DEC2009 05:01:41
Data source version	GOMOS/5.00L04
Start time of products	25DEC2009 00:07:08
Stop time of products	25DEC2009 23:53:35
Store outputs in DB	Yes
Nb of level 1b prods	157
Nb of prods with errors	0

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

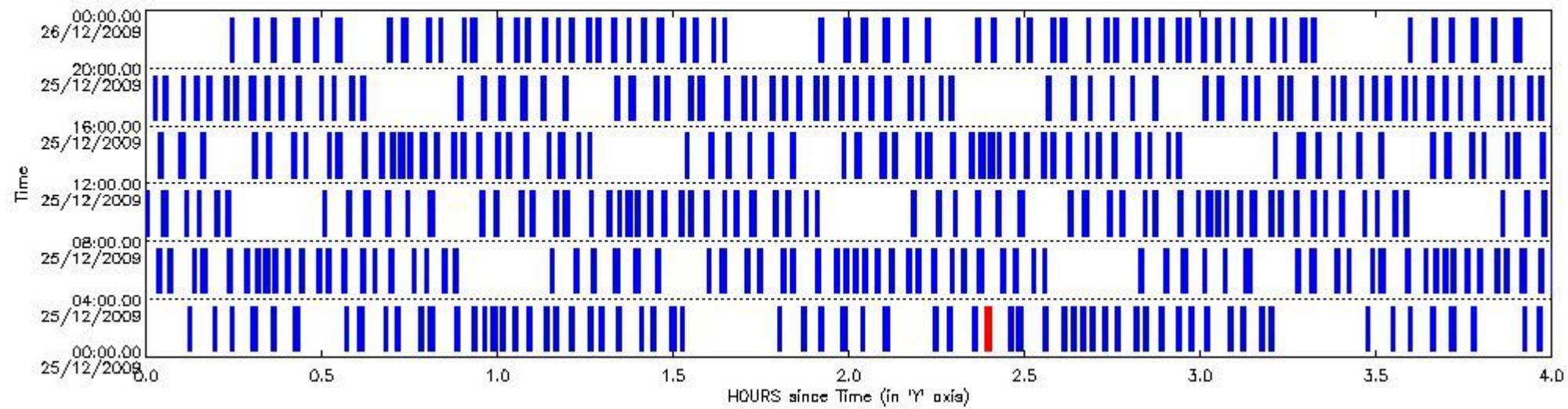
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-DEC-2009 02:23:15	lotCen	123	40881

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

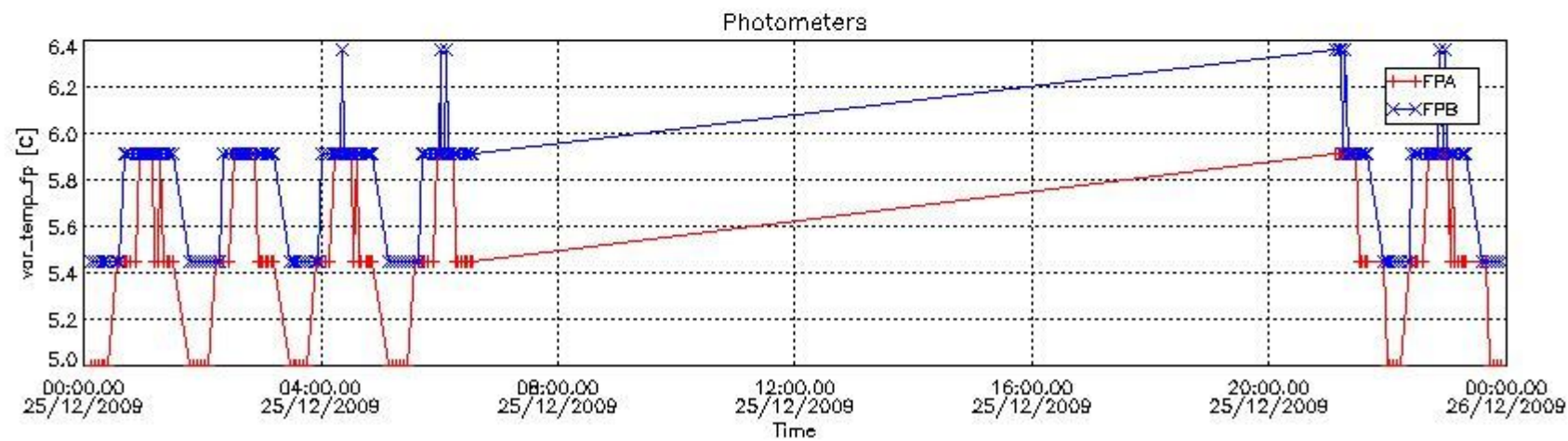
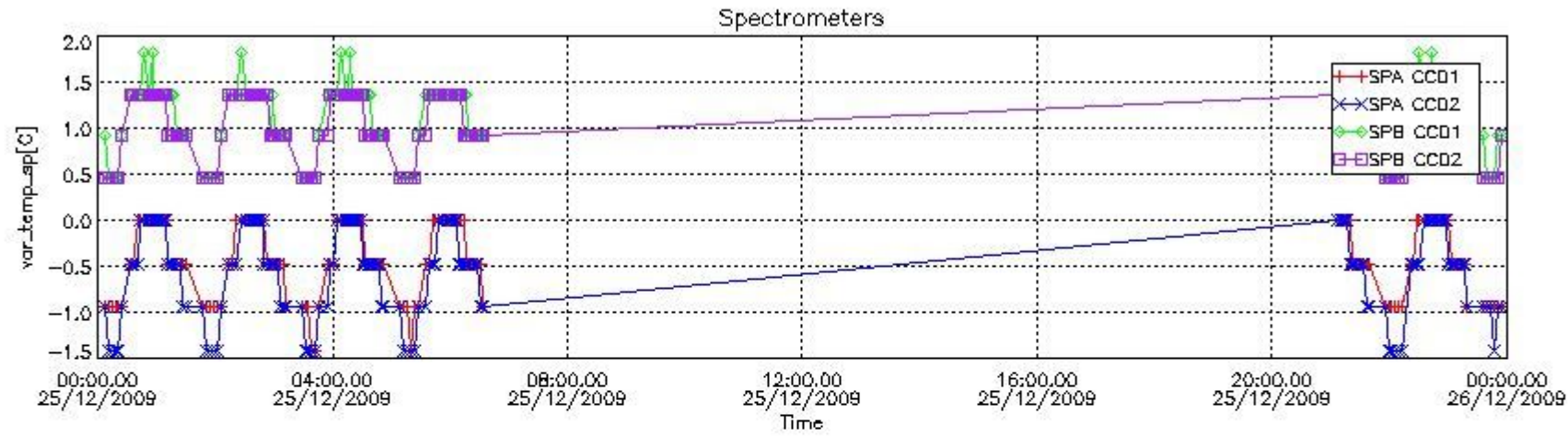
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091225_000708_000000362085_00245_40880_0443.N1	25-DEC-2009 00:07:08	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	40880	No
2	GOM_TRA_1PNPDE20091225_001118_000000462085_00245_40880_0444.N1	25-DEC-2009 00:11:18	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	40880	No
3	GOM_TRA_1PNPDE20091225_001415_000000462085_00245_40880_0445.N1	25-DEC-2009 00:14:15	Bright	45.500	39	85Eta UMa	1.8540	24000.	91	40880	No
4	GOM_TRA_1PNPDE20091225_001757_000000582085_00245_40880_0446.N1	25-DEC-2009 00:17:57	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	40880	No
5	GOM_TRA_1PNPDE20091225_002124_000000402085_00245_40880_0447.N1	25-DEC-2009 00:21:24	Bright	39.500	83		2.3780	11000.	79	40880	No
6	GOM_TRA_1PNPDE20091225_002507_000000682085_00245_40880_0448.N1	25-DEC-2009 00:25:07	Bright	68.000	111	8Eta Boo	2.6800	6000.0	136	40880	No
7	GOM_TRA_1PNPDE20091225_003351_000000412085_00245_40880_0455.N1	25-DEC-2009 00:33:51	Bright	40.500	122	9Alp2Lib	2.7470	9700.0	81	40880	No
8	GOM_TRA_1PNPDE20091225_003608_000000562085_00245_40880_0456.N1	25-DEC-2009 00:36:08	Straylight	56.000	15	67Alp Vir	0.97600	28000.	112	40880	No
9	GOM_TRA_1PNPDE20091225_004031_000000452085_00245_40880_0457.N1	25-DEC-2009 00:40:31	Dark	45.000	54	5The Cen	2.0550	4500.0	90	40880	No
10	GOM_TRA_1PNPDE20091225_004232_000000442085_00245_40880_0458.N1	25-DEC-2009 00:42:32	Dark	43.500	123	lot Cen	2.7500	10200.	87	40880	No





129	GOM_TRA_1PNPDE20091225_220913_000000582085_00258_40893_0619.N1	25-DEC-2009 22:09:13	Bright	58.000	83		2.3780	11000.	116	40893	No
130	GOM_TRA_1PNPDE20091225_221259_000000542085_00258_40893_0620.N1	25-DEC-2009 22:12:59	Bright	54.000	111	8Eta Boo	2.6800	6000.0	108	40893	No
131	GOM_TRA_1PNPDE20091225_222144_000000472085_00258_40893_0620.N1	25-DEC-2009 22:21:44	Bright	47.000	122	9Alp2Lib	2.7470	9700.0	94	40893	No
132	GOM_TRA_1PNPDE20091225_222409_000000602085_00258_40893_0621.N1	25-DEC-2009 22:24:09	Straylight	59.500	15	67Alp Vir	0.97600	28000.	119	40893	No
133	GOM_TRA_1PNPDE20091225_222826_000000482085_00258_40893_0622.N1	25-DEC-2009 22:28:26	Dark	48.000	54	5The Cen	2.0550	4500.0	96	40893	No
134	GOM_TRA_1PNPDE20091225_223030_000000432085_00258_40893_0623.N1	25-DEC-2009 22:30:30	Dark	42.500	123	1ot Cen	2.7500	10200.	85	40893	No
135	GOM_TRA_1PNPDE20091225_223431_000000412085_00259_40894_0624.N1	25-DEC-2009 22:34:31	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40894	No
136	GOM_TRA_1PNPDE20091225_224031_000000472085_00259_40894_0625.N1	25-DEC-2009 22:40:31	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	40894	No
137	GOM_TRA_1PNPDE20091225_224334_000000412085_00259_40894_0626.N1	25-DEC-2009 22:43:34	Dark	41.000	71	1ot Car	2.2460	7700.0	82	40894	No
138	GOM_TRA_1PNPDE20091225_224517_000000432085_00259_40894_0627.N1	25-DEC-2009 22:45:17	Dark	42.500	41	Eps Car	1.8600	4100.0	85	40894	No
139	GOM_TRA_1PNPDE20091225_224821_000000492085_00259_40894_0628.N1	25-DEC-2009 22:48:21	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40894	No
140	GOM_TRA_1PNPDE20091225_225033_000000492085_00259_40894_0629.N1	25-DEC-2009 22:50:33	Dark	49.000	70	Zet Pup	2.2460	39000.	98	40894	No
141	GOM_TRA_1PNPDE20091225_225250_000000492085_00259_40894_0630.N1	25-DEC-2009 22:52:50	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	40894	No
142	GOM_TRA_1PNPDE20091225_225548_000000492085_00259_40894_0631.N1	25-DEC-2009 22:55:48	Straylight	49.000	23	21Eps CMa	1.5020	26000.	98	40894	No
143	GOM_TRA_1PNPDE20091225_225725_000000502085_00259_40894_0632.N1	25-DEC-2009 22:57:25	Straylight	49.500	179	24Omi2CMa	3.0320	24000.	99	40894	No
144	GOM_TRA_1PNPDE20091225_230004_000000542085_00259_40894_0633.N1	25-DEC-2009 23:00:04	Straylight	53.500	1	9Alp CMa	-1.4400	11000.	107	40894	No
145	GOM_TRA_1PNPDE20091225_230237_000000442085_00259_40894_0634.N1	25-DEC-2009 23:02:37	Straylight	43.500	56	53Kap Ori	2.0650	30000.	87	40894	No
146	GOM_TRA_1PNPDE20091225_230511_000000452085_00259_40894_0635.N1	25-DEC-2009 23:05:11	Straylight	44.500	30	46Eps Ori	1.6940	30000.	89	40894	No
147	GOM_TRA_1PNPDE20091225_230754_000000532085_00259_40894_0636.N1	25-DEC-2009 23:07:54	Tw_i_and_stray	52.500	14	58Alp Ori	0.87000	3000.0	105	40894	No
148	GOM_TRA_1PNPDE20091225_231156_000000482085_00259_40894_0637.N1	25-DEC-2009 23:11:56	Bright	48.000	176	23Zet Tau	3.0200	22000.	96	40894	No
149	GOM_TRA_1PNPDE20091225_231401_000000412085_00259_40894_0638.N1	25-DEC-2009 23:14:01	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	40894	No
150	GOM_TRA_1PNPDE20091225_231707_000000592085_00259_40894_0639.N1	25-DEC-2009 23:17:07	Bright	59.000	107	37The Aur	2.6490	11000.	118	40894	No
151	GOM_TRA_1PNPDE20091225_231857_000000442085_00259_40894_0640.N1	25-DEC-2009 23:18:57	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	40894	No
152	GOM_TRA_1PNPDE20091225_233531_000000372085_00259_40894_0641.N1	25-DEC-2009 23:35:31	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	40894	No
153	GOM_TRA_1PNPDE20091225_233936_000000462085_00259_40894_0642.N1	25-DEC-2009 23:39:36	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	40894	No
154	GOM_TRA_1PNPDE20091225_234236_000000422085_00259_40894_0643.N1	25-DEC-2009 23:42:36	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	40894	No
155	GOM_TRA_1PNPDE20091225_234621_000000592085_00259_40894_0644.N1	25-DEC-2009 23:46:21	Bright	59.000	180	27Gam Boo	3.0400	8000.0	118	40894	No
156	GOM_TRA_1PNPDE20091225_234949_000000392085_00259_40894_0645.N1	25-DEC-2009 23:49:49	Bright	39.000	83		2.3780	11000.	78	40894	No
157	GOM_TRA_1PNPDE20091225_235335_000000692085_00259_40894_0646.N1	25-DEC-2009 23:53:35	Bright	69.000	111	8Eta Boo	2.6800	6000.0	138	40894	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).

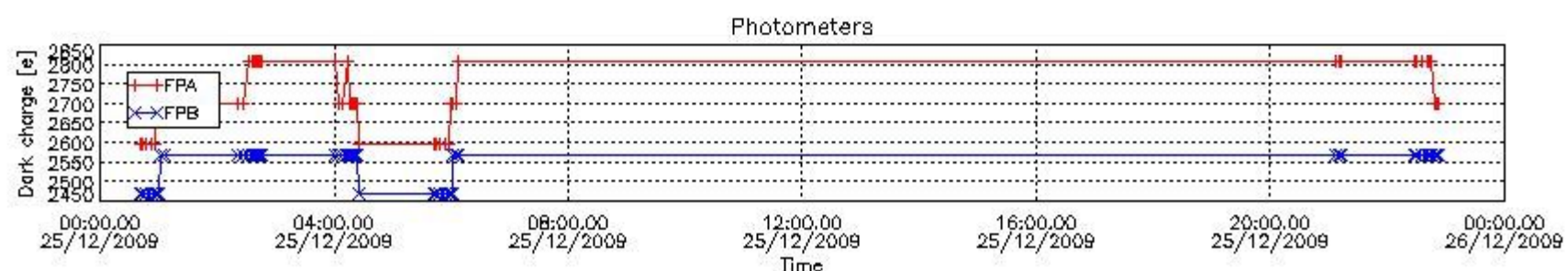
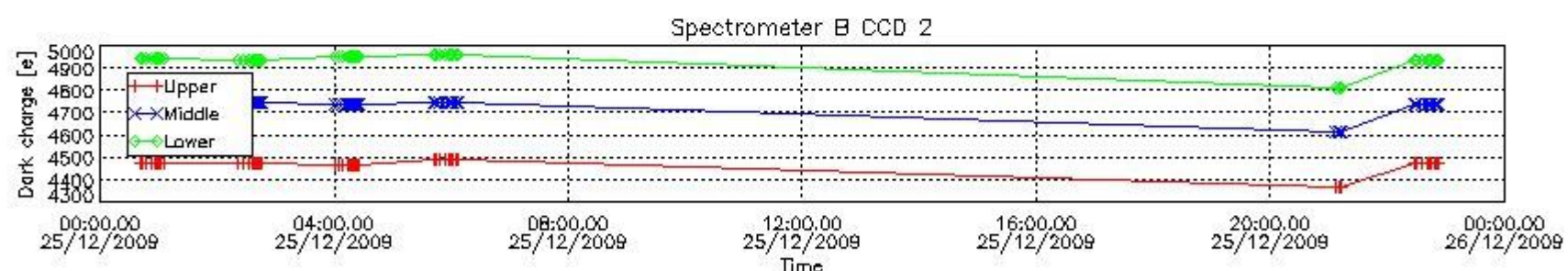
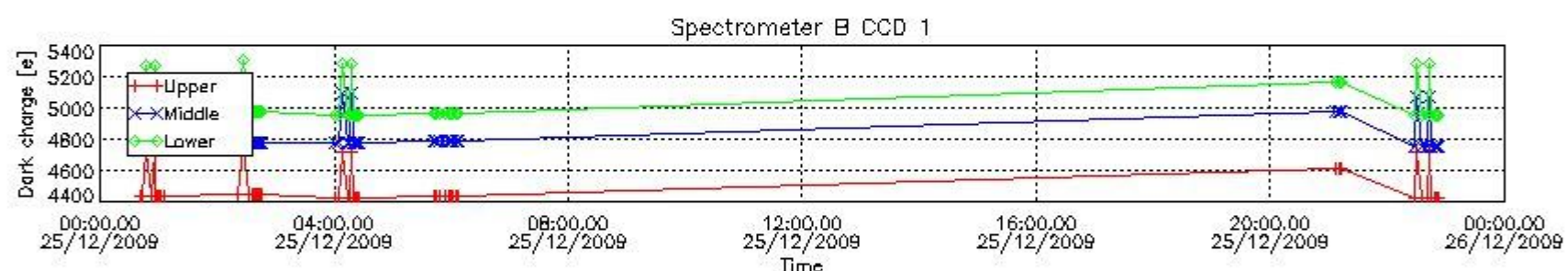
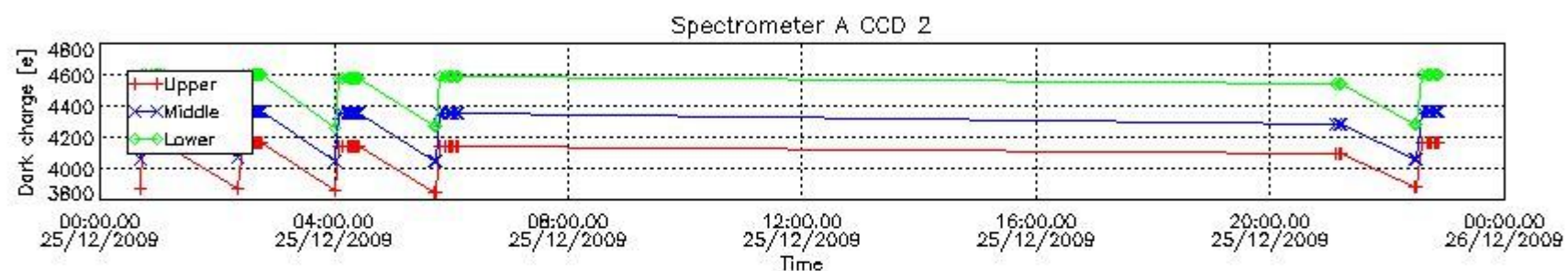
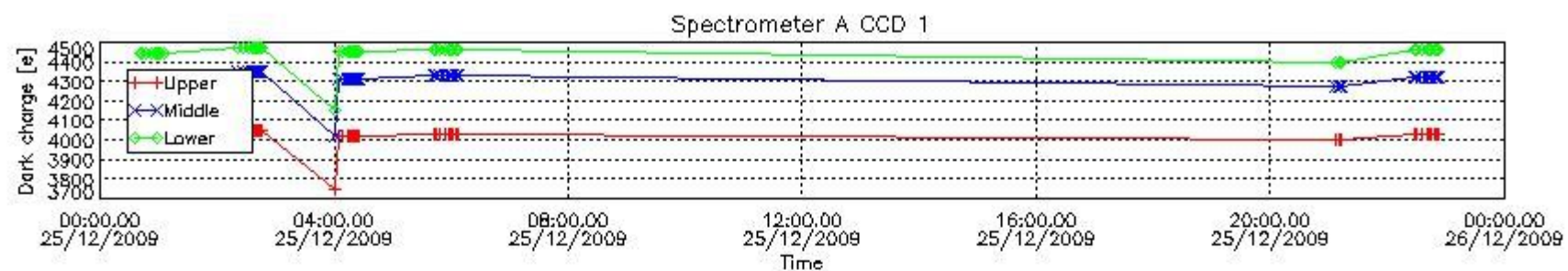
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091225_210745_000000442085_00258_40893_0602.N1	DC map used
GOM_TRA_1PNPDE20091225_210956_000000462085_00258_40893_0603.N1	DC map used
GOM_TRA_1PNPDE20091225_211214_000000472085_00258_40893_0604.N1	DC map used
GOM_TRA_1PNPDE20091225_211512_000000482085_00258_40893_0605.N1	DC map used
GOM_TRA_1PNPDE20091225_211649_000000472085_00258_40893_0606.N1	DC map used
GOM_TRA_1PNPDE20091225_211928_000000542085_00258_40893_0607.N1	DC map used
GOM_TRA_1PNPDE20091225_212201_000000452085_00258_40893_0608.N1	DC map used
GOM_TRA_1PNPDE20091225_212435_000000452085_00258_40893_0609.N1	DC map used
GOM_TRA_1PNPDE20091225_212718_000000562085_00258_40893_0610.N1	DC map used
GOM_TRA_1PNPDE20091225_213120_000000482085_00258_40893_0611.N1	DC map used
GOM_TRA_1PNPDE20091225_213325_000000412085_00258_40893_0612.N1	DC map used
GOM_TRA_1PNPDE20091225_213632_000000422085_00258_40893_0613.N1	DC map used
GOM_TRA_1PNPDE20091225_213821_000000452085_00258_40893_0614.N1	DC map used
GOM_TRA_1PNPDE20091225_215455_000000402085_00258_40893_0615.N1	DC map used

GOM_TRA_1PNPDE20091225_215901_000000662085_00258_40893_0616.N1	DC map used
GOM_TRA_1PNPDE20091225_220200_000000622085_00258_40893_0617.N1	DC map used
GOM_TRA_1PNPDE20091225_220545_000000592085_00258_40893_0618.N1	DC map used
GOM_TRA_1PNPDE20091225_220913_000000582085_00258_40893_0619.N1	DC map used
GOM_TRA_1PNPDE20091225_221259_000000542085_00258_40893_0620.N1	DC map used

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



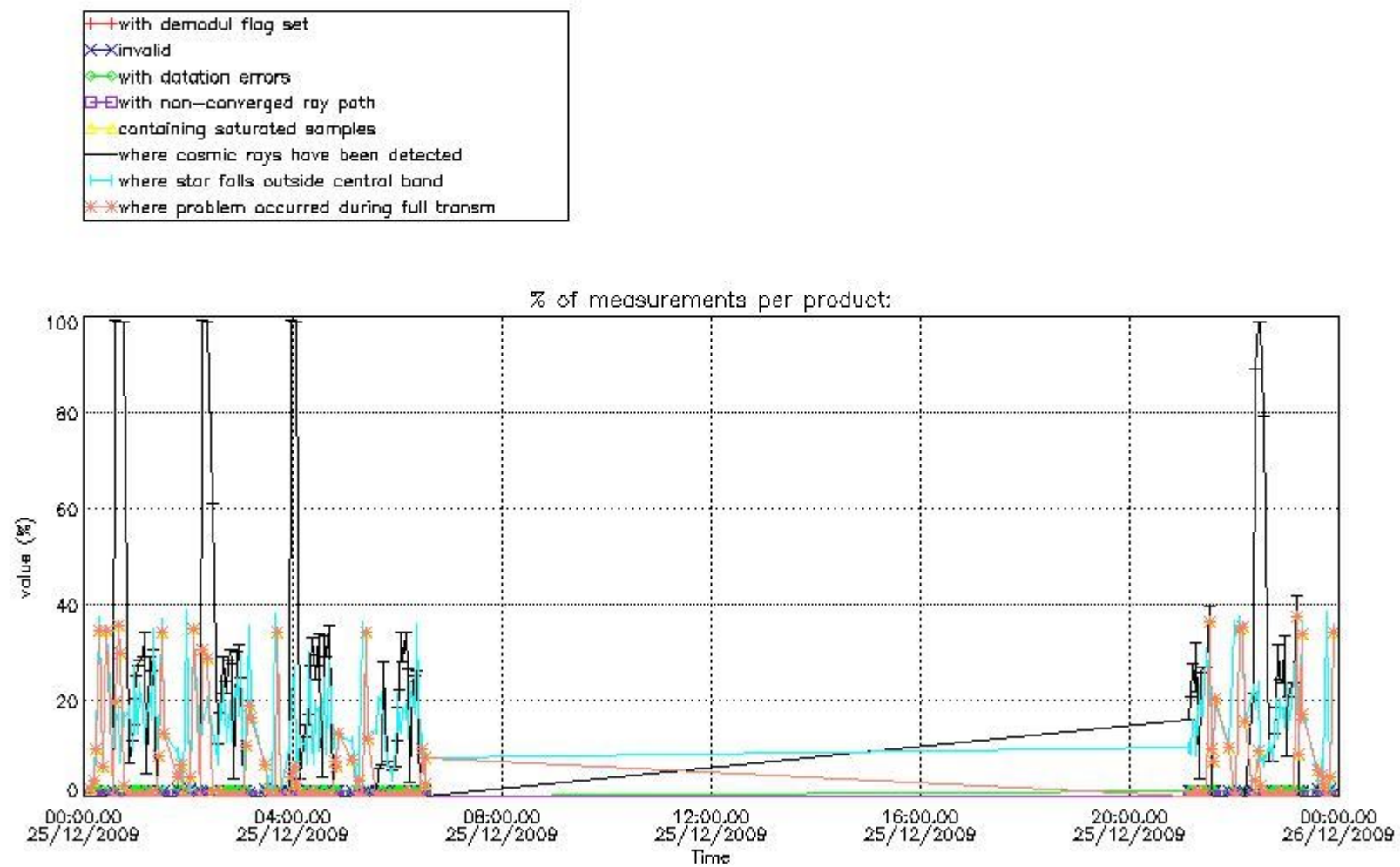
5. Demodulation flag and quality information monitoring

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:

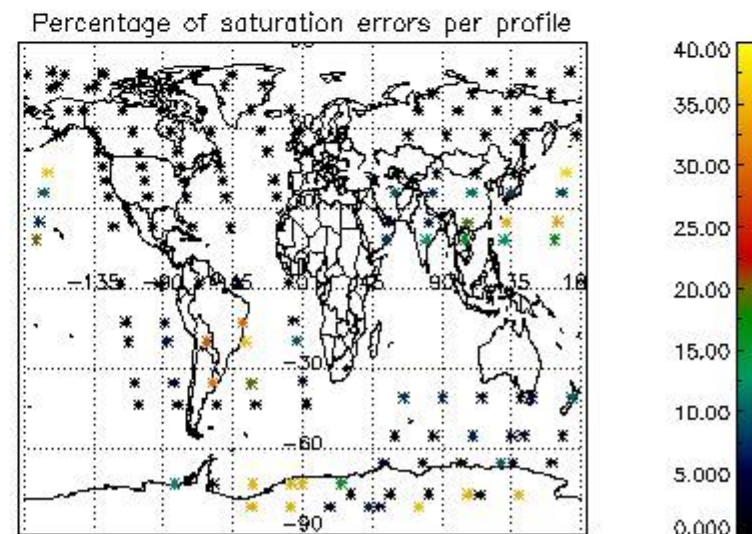
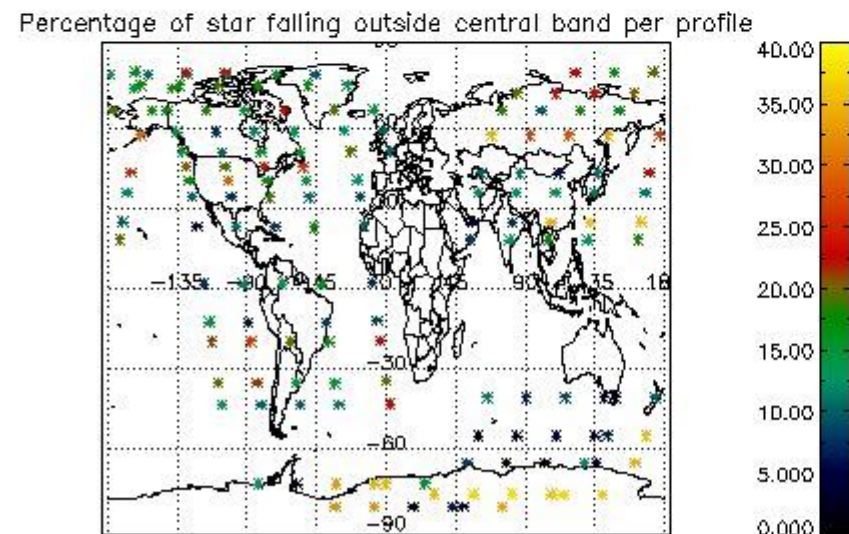
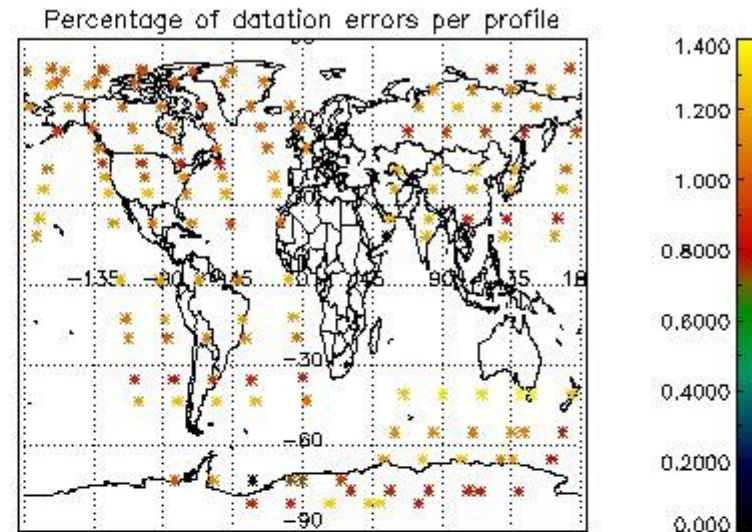
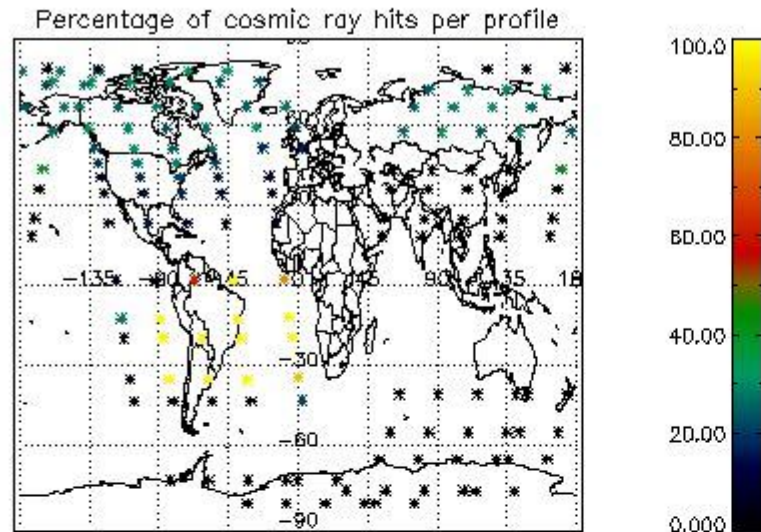
At least one measurement with demodulation flag set:	43.3121 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





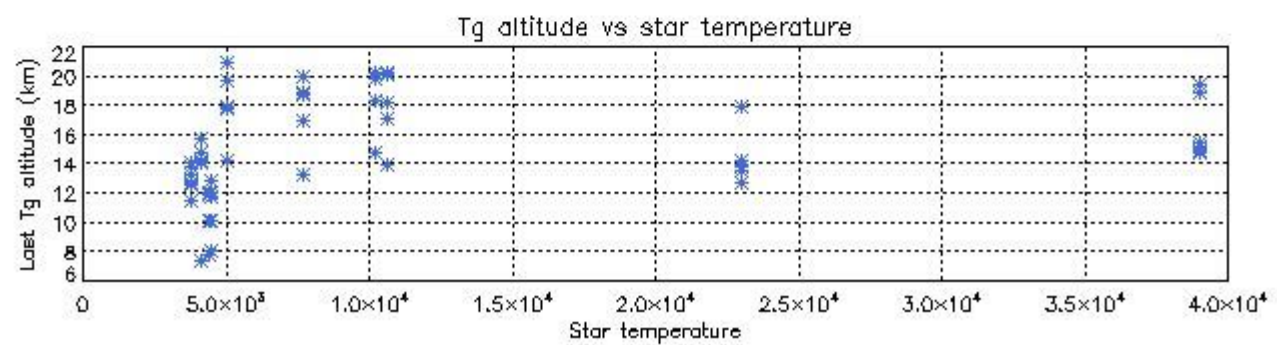
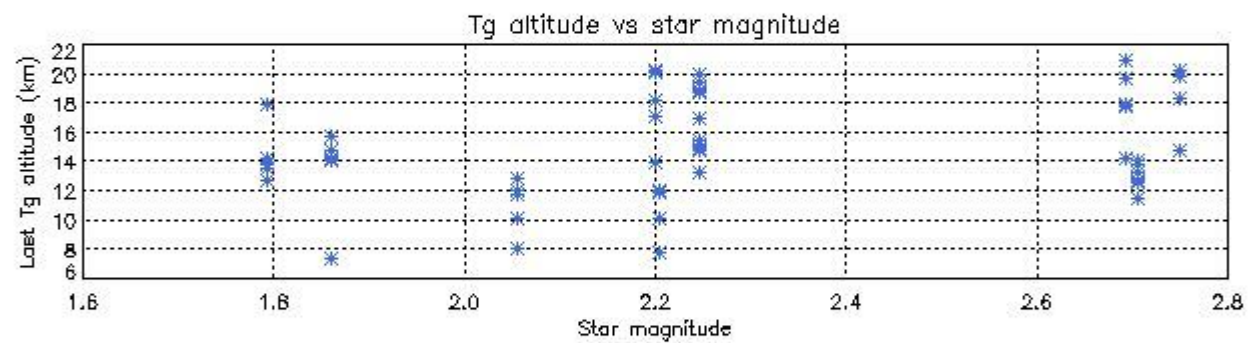
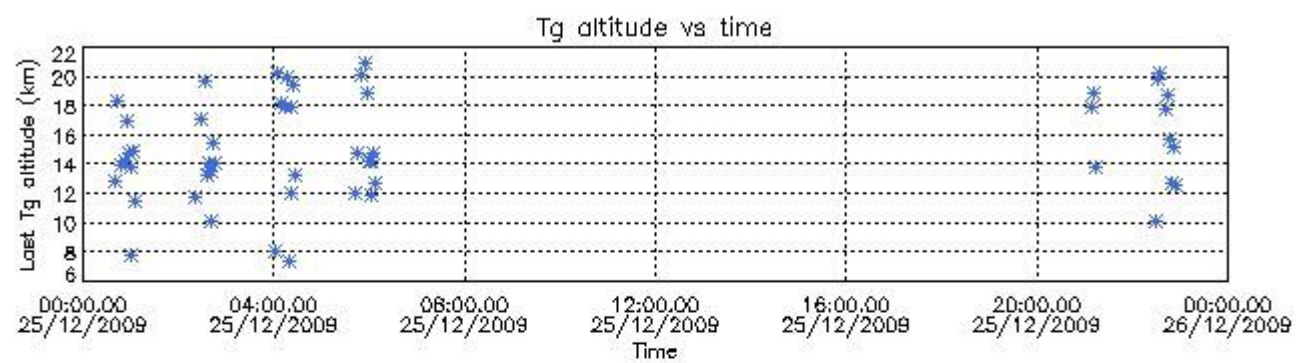
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.090	14.400	NaN
St. deviation:	3.4730	6.9106	NaN
Maximum:	20.888	26.815	NaN
Minimum:	7.3521	3.6604	NaN
Number of data:	51.000	65.000	NaN

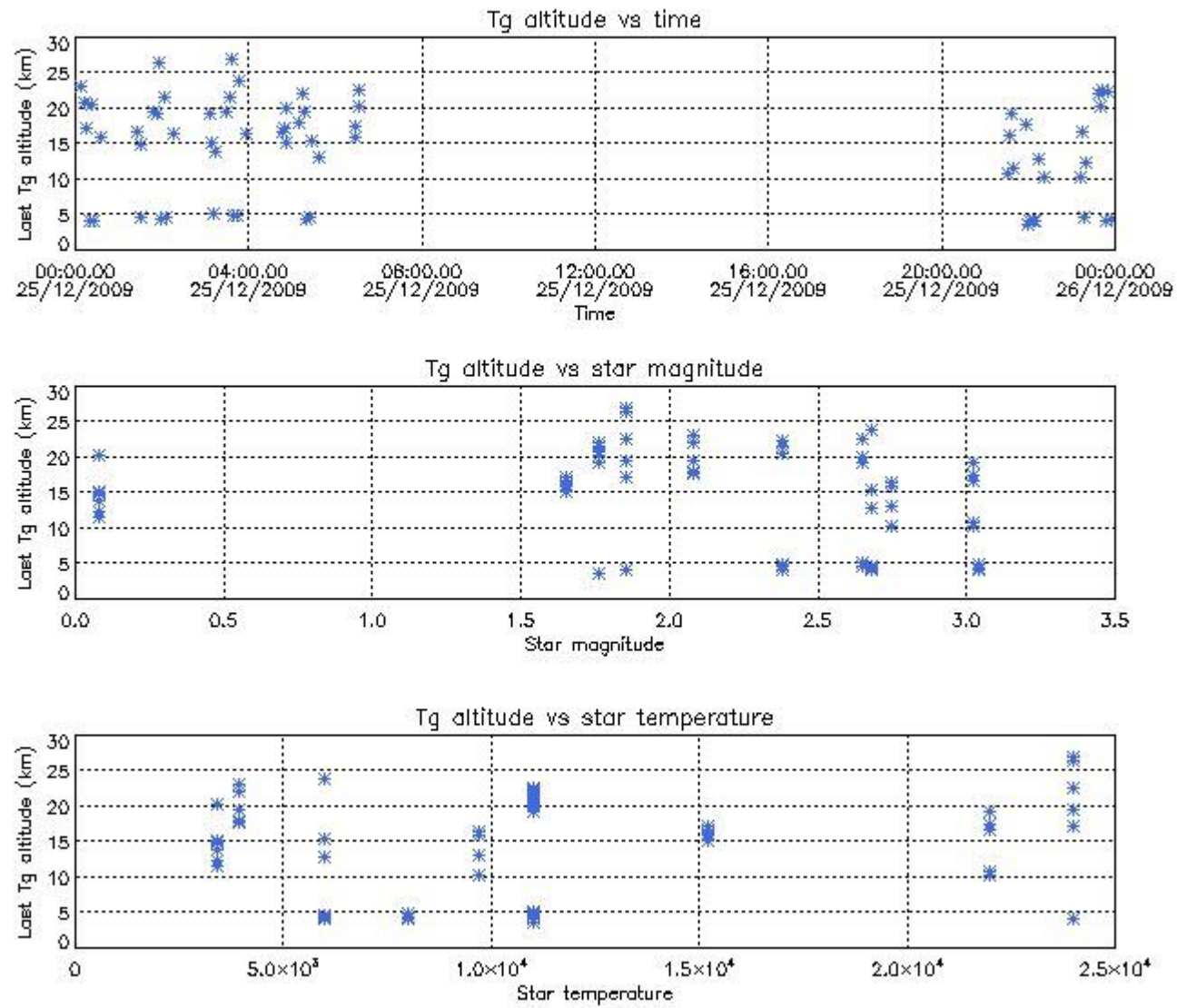
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

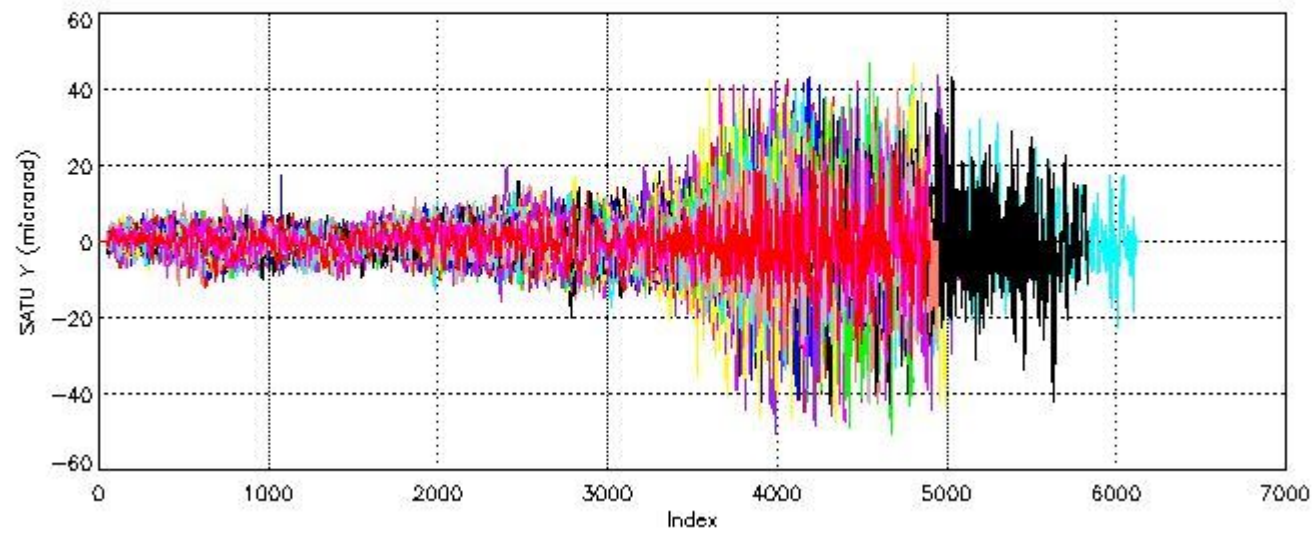
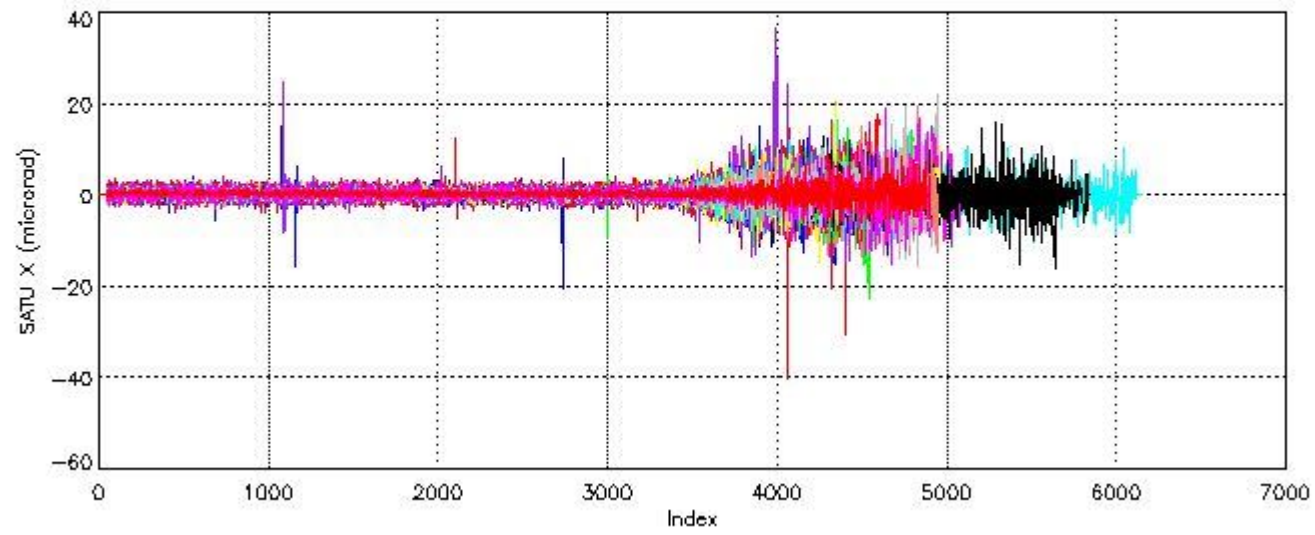


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.22090	-0.16063	0.16411	-0.36369
St. deviation:	0.52938	2.3950	0.80657	2.3990
Maximum:	3.9000	10.800	6.2000	11.700
Minimum:	-5.6000	-12.100	-5.3000	-12.600

Number of data:	51150.	51150.	62050.	62050.
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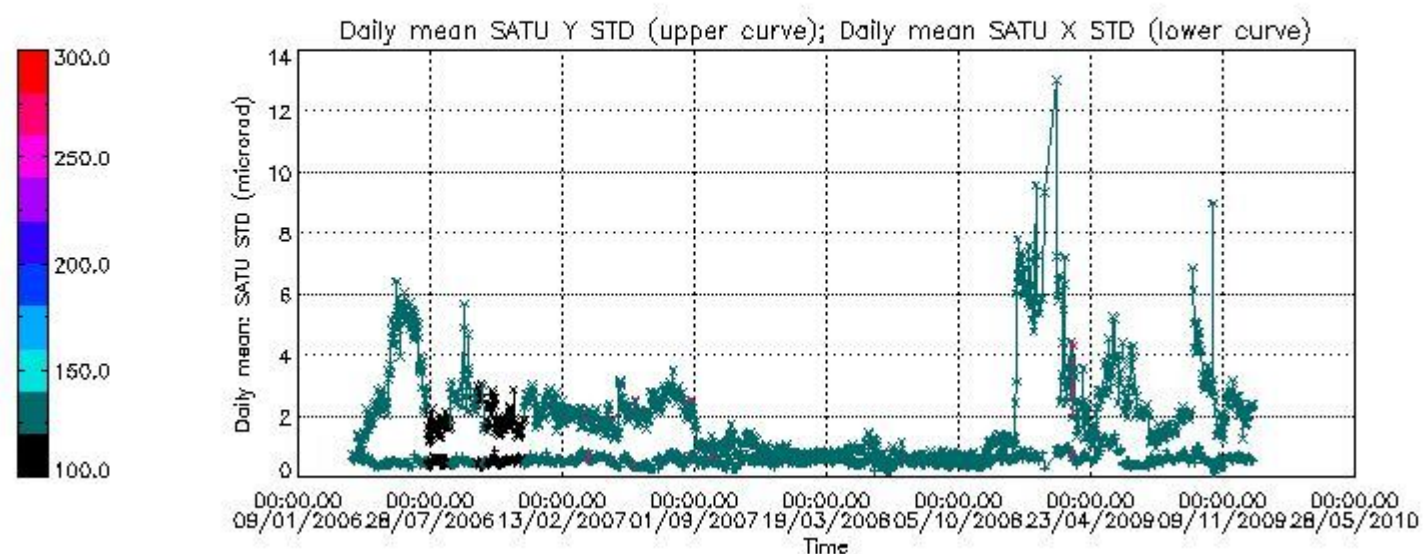
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

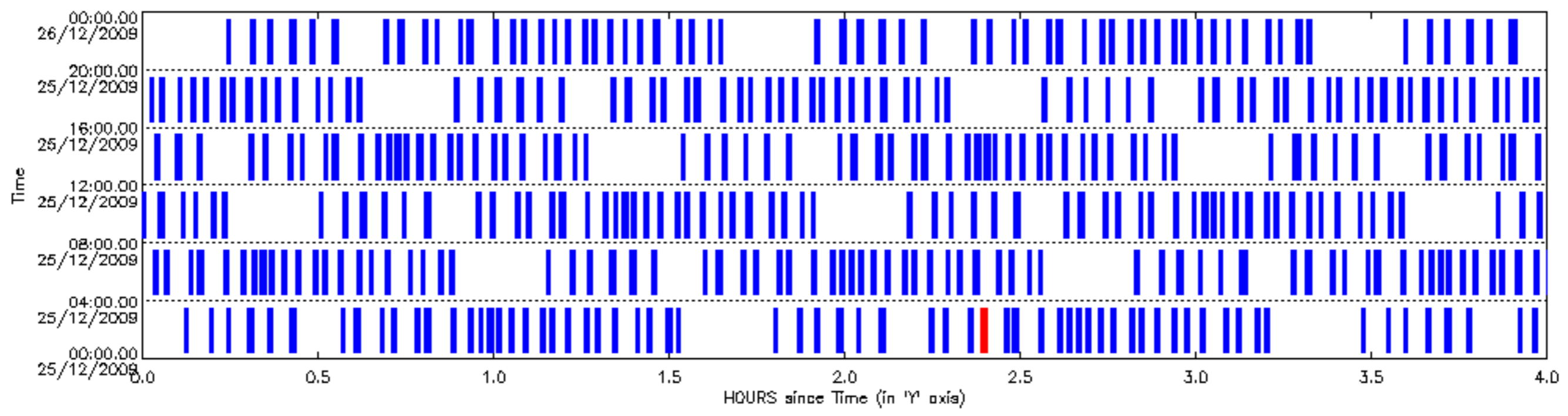
Lower curve: STD of SATU X axis

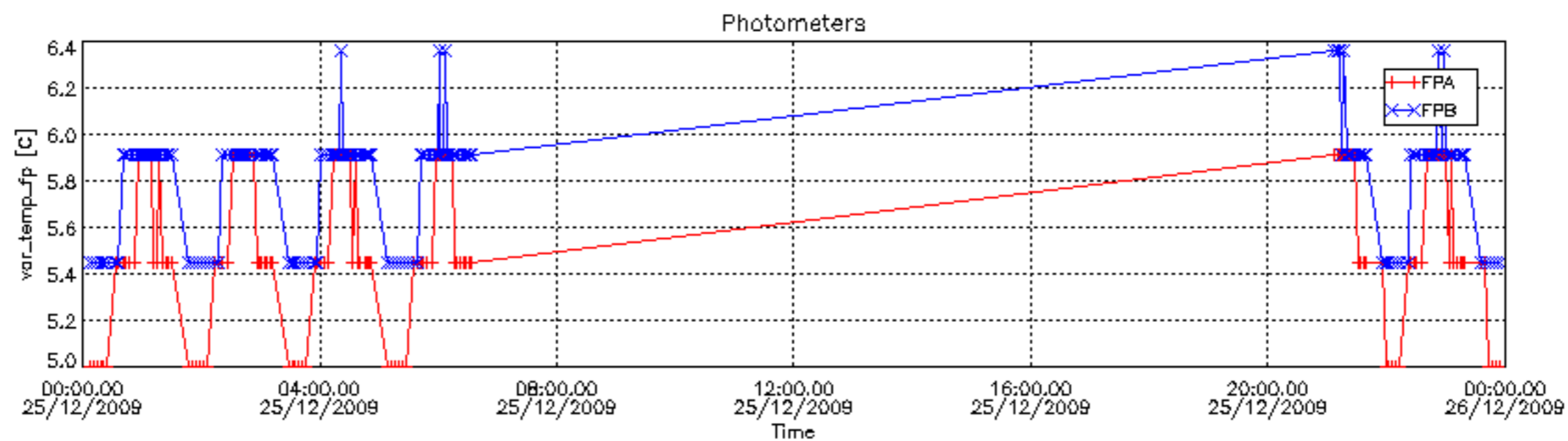
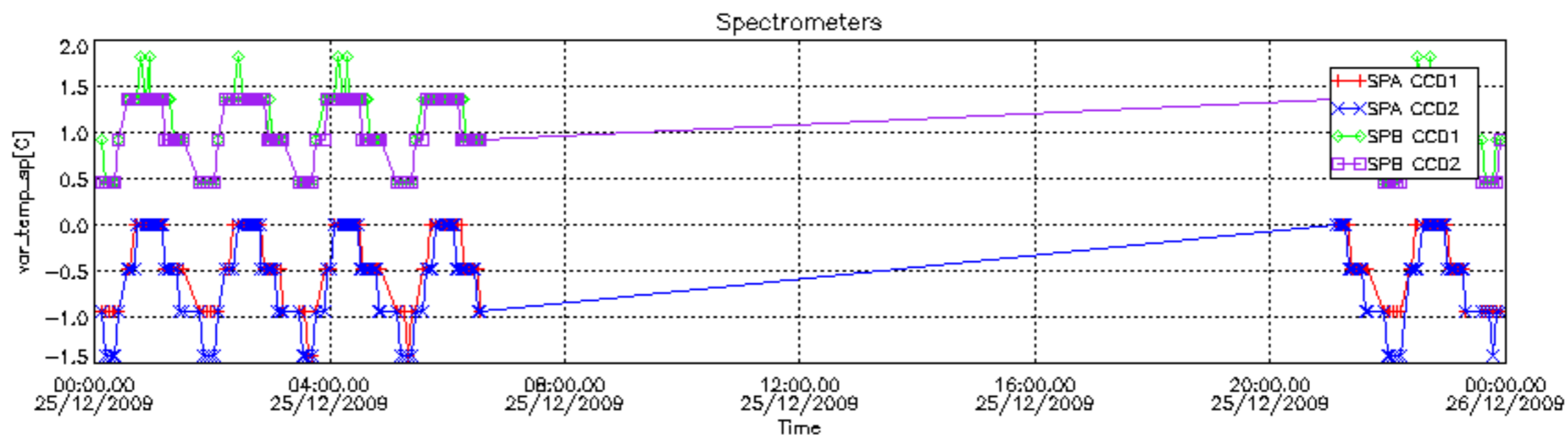


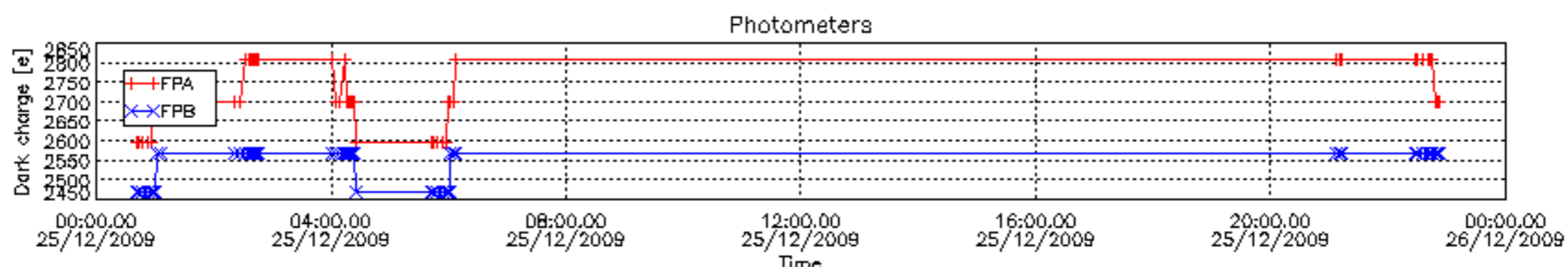
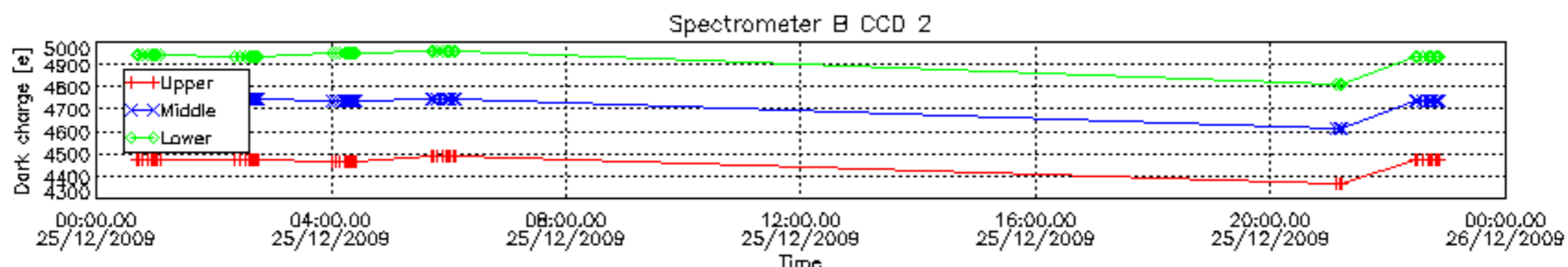
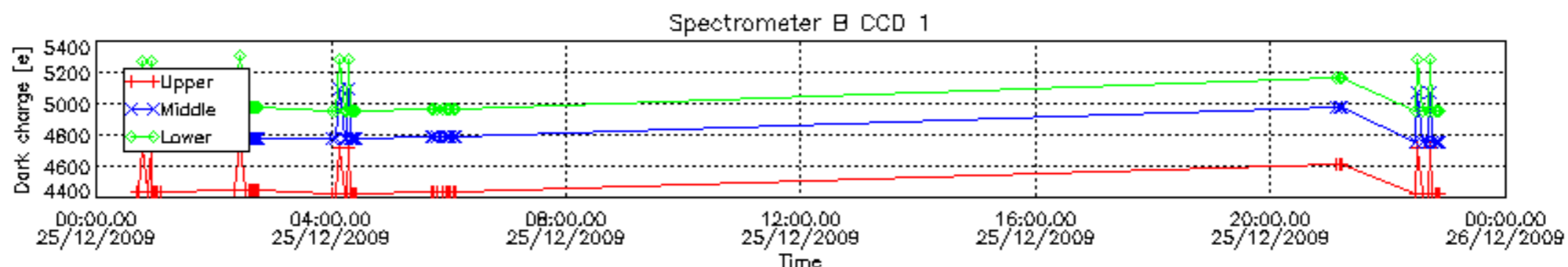
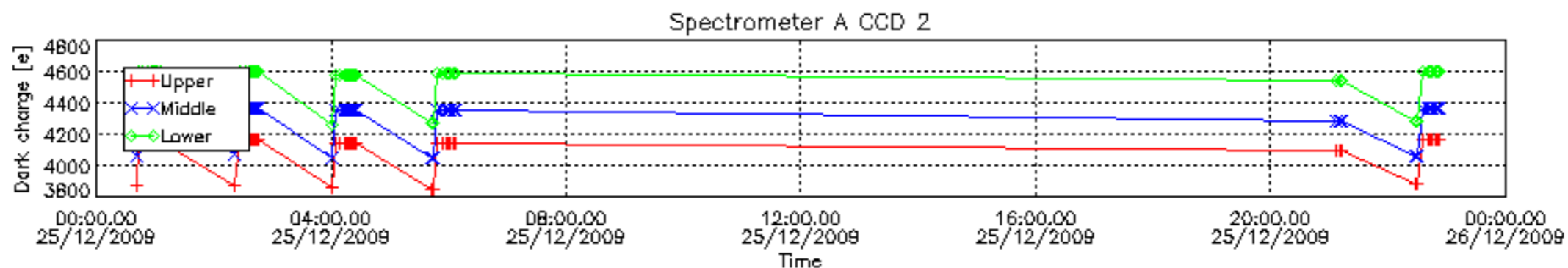
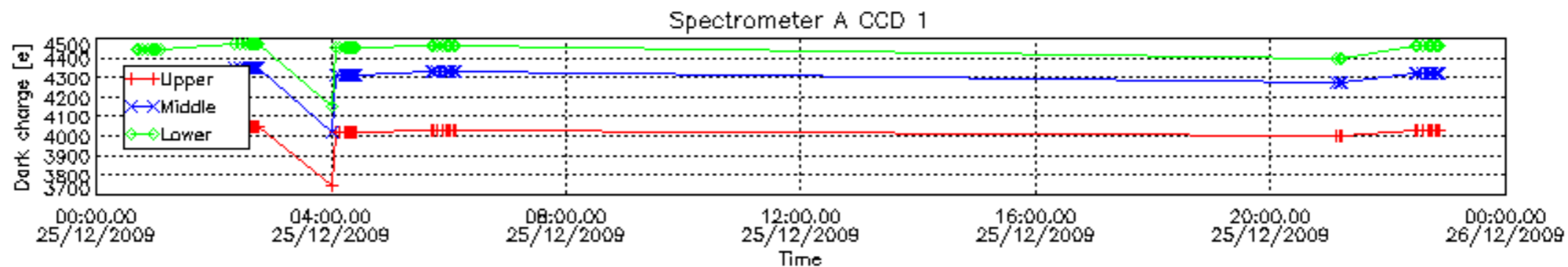
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

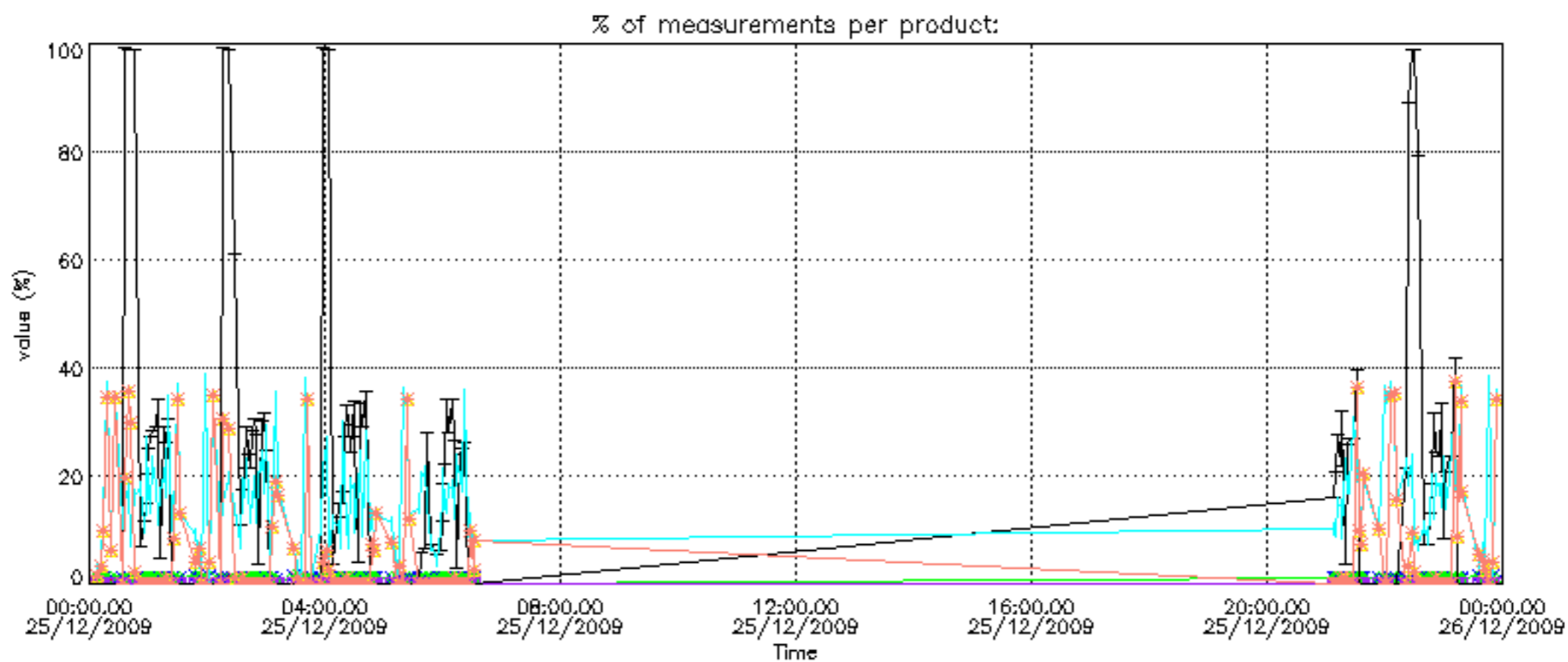
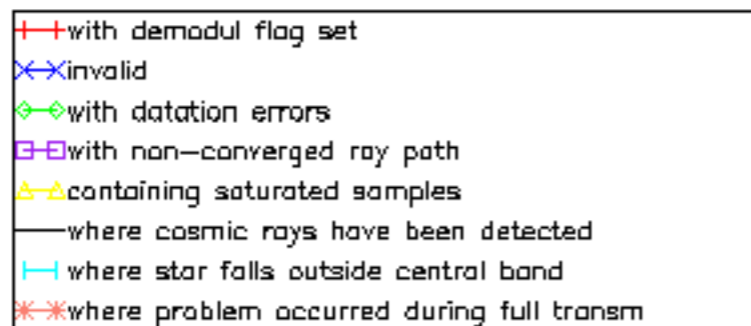
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091214_085046_20091212_000000_20500101_000000	1	25-DEC-2009 00:07:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	25-DEC-2009 00:07:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-DEC-2009 00:07:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-DEC-2009 00:07:08
ECMWF_FILE	AUX_ECF_AXNECM20091224_062112_20091224_210000_20091225_090000	1	25-DEC-2009 00:07:08
ECMWF_FILE	AUX_ECF_AXNECM20091224_181854_20091225_030000_20091225_150000	56	25-DEC-2009 03:28:20
ECMWF_FILE	AUX_ECA_AXNECM20091225_060112_20091224_210000_20091225_090000	84	25-DEC-2009 05:08:56
ECMWF_FILE	AUX_ECF_AXNECM20091225_062111_20091225_210000_20091226_090000	112	25-DEC-2009 21:07:45
OPTIONAL_ECMWF_FILE	MISSING	1	25-DEC-2009 00:07:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091224_224822_000057382085_00244_40879_9426.N1	1	25-DEC-2009 00:07:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_002919_000057382085_00245_40880_9427.N1	7	25-DEC-2009 00:33:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_020457_000044632085_00246_40881_9428.N1	35	25-DEC-2009 02:14:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_032439_000057382085_00247_40882_9429.N1	56	25-DEC-2009 03:28:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_050536_000057382085_00248_40883_9430.N1	84	25-DEC-2009 05:08:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_210158_000044632085_00258_40893_9431.N1	112	25-DEC-2009 21:07:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091225_221621_000057382085_00258_40893_9432.N1	131	25-DEC-2009 22:21:44



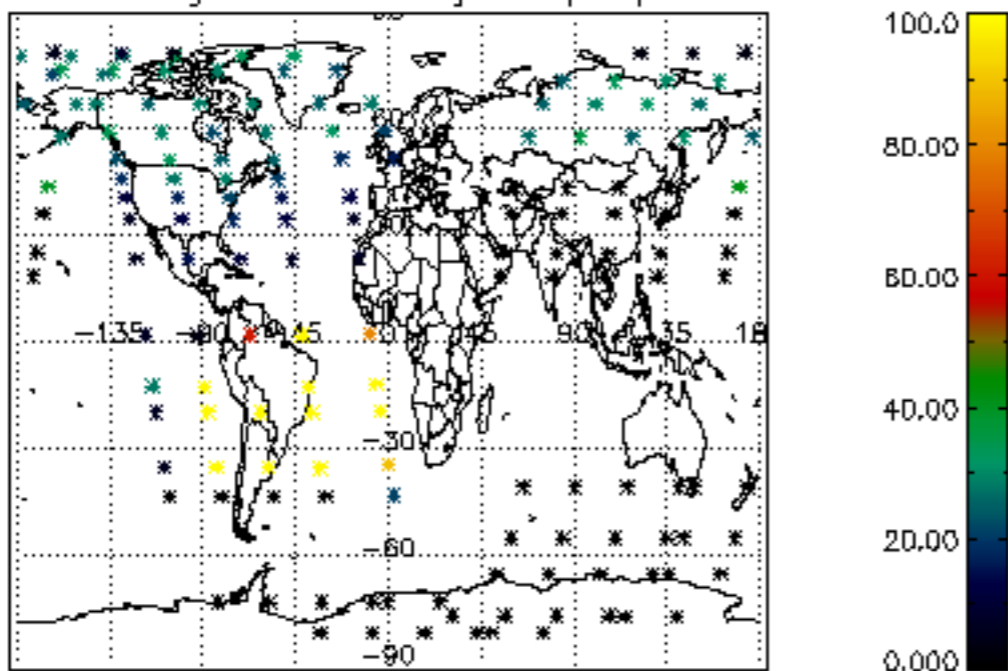




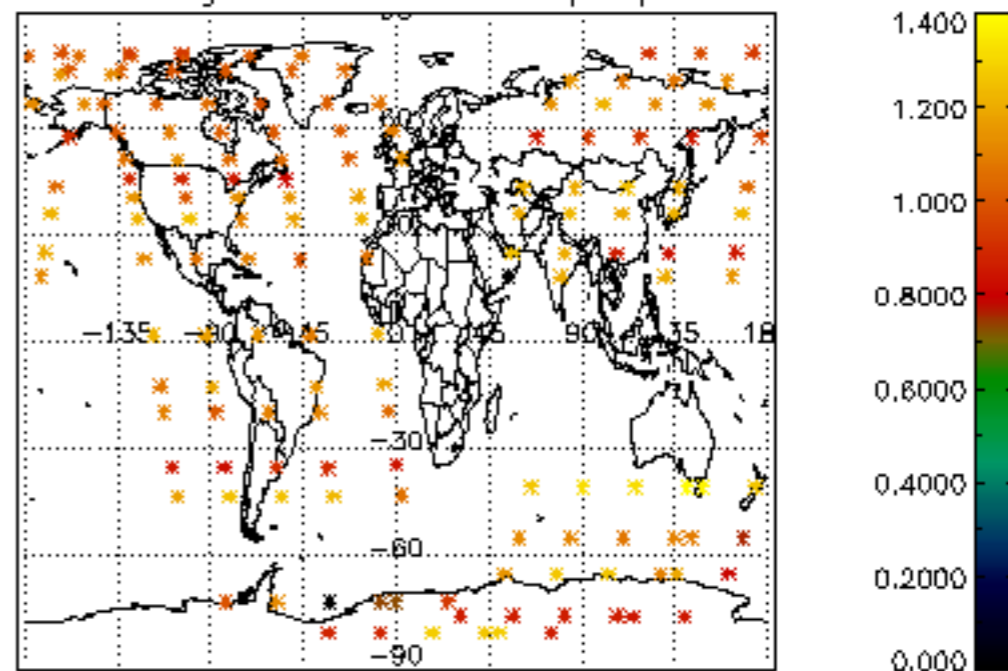




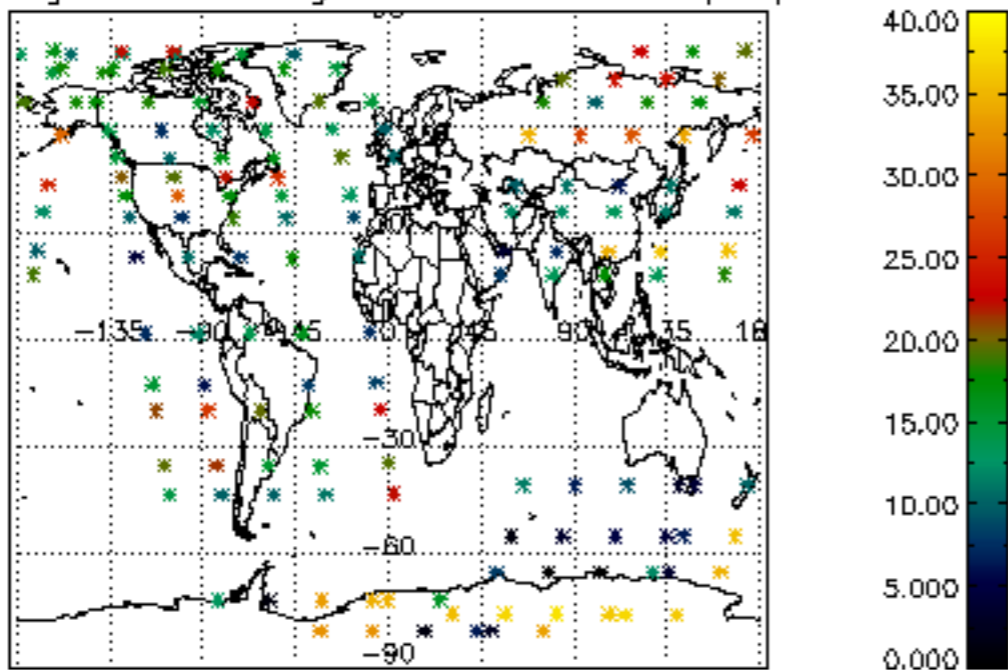
Percentage of cosmic ray hits per profile



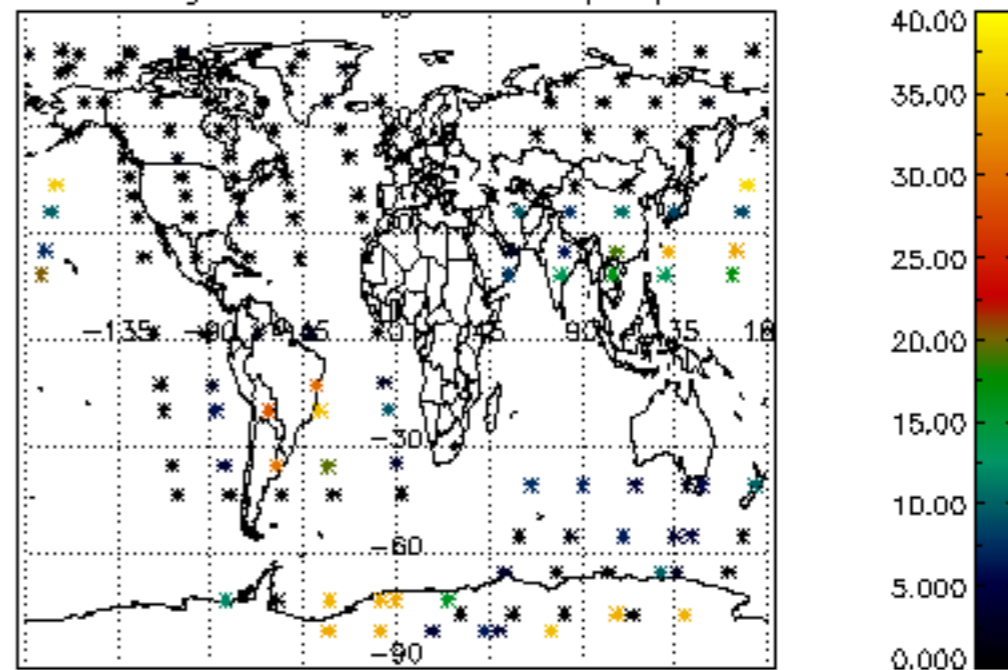
Percentage of datation errors per profile



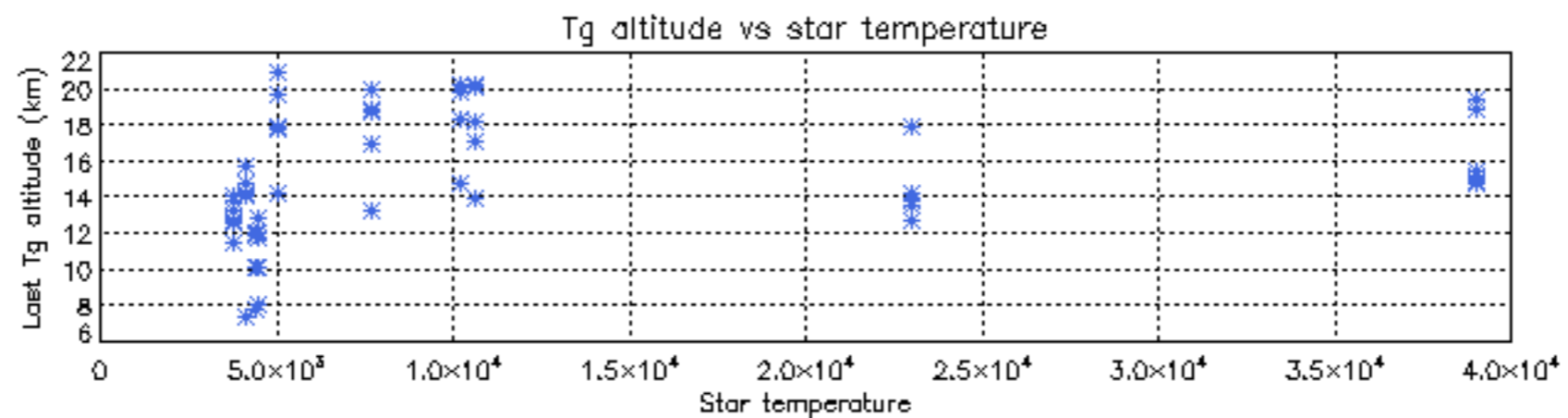
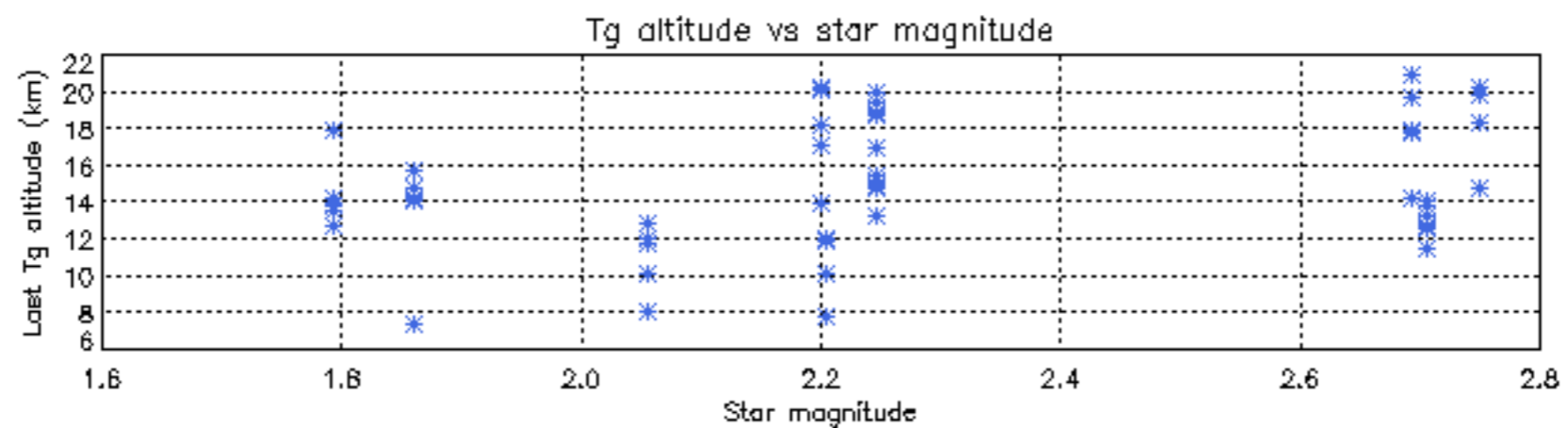
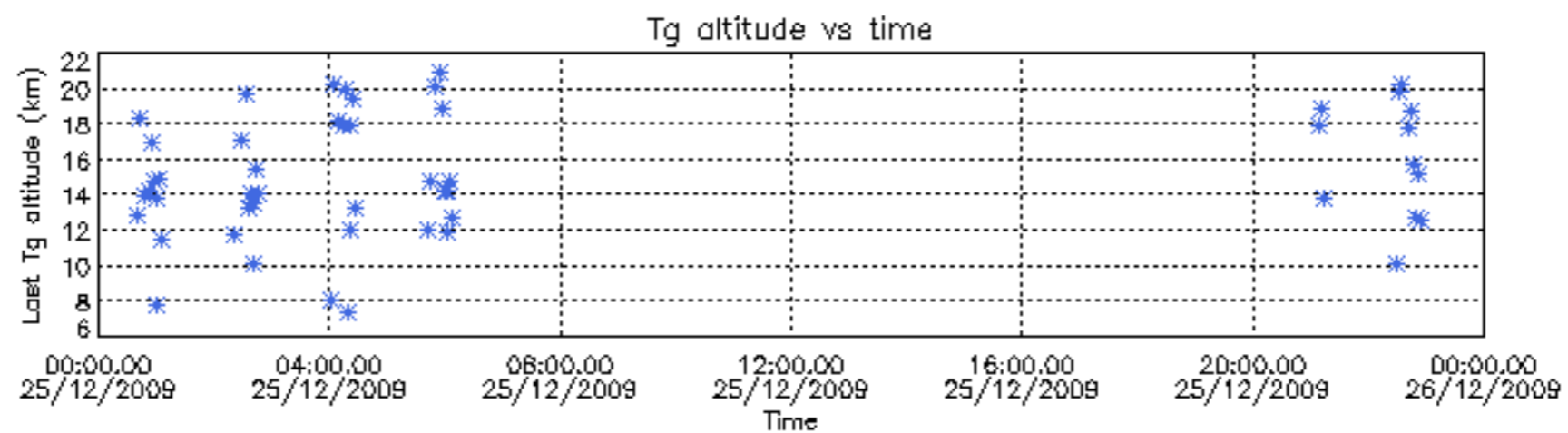
Percentage of star falling outside central band per profile



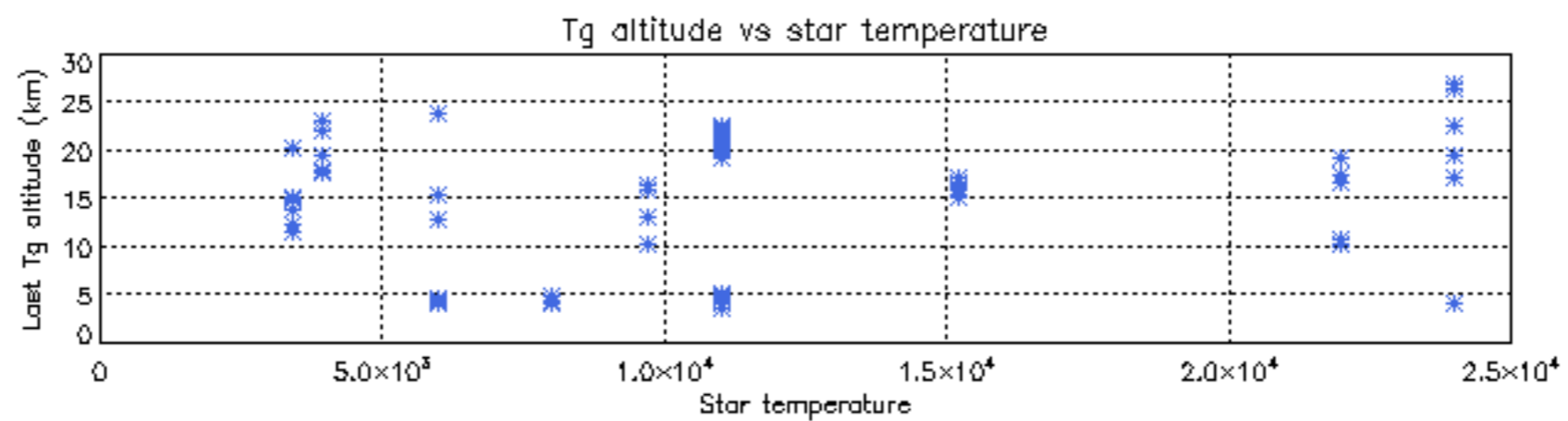
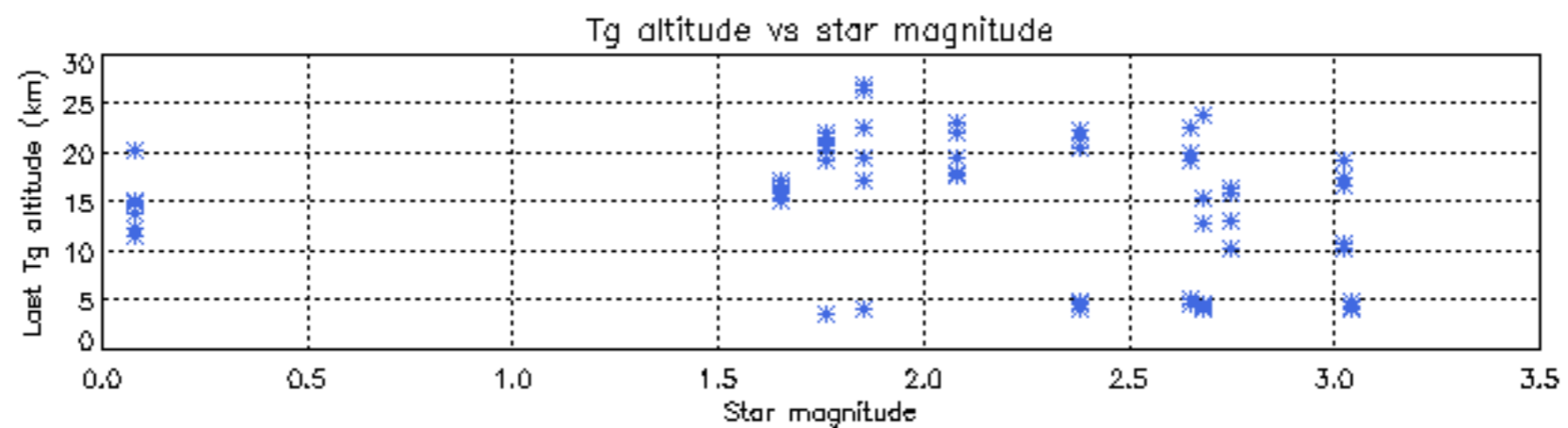
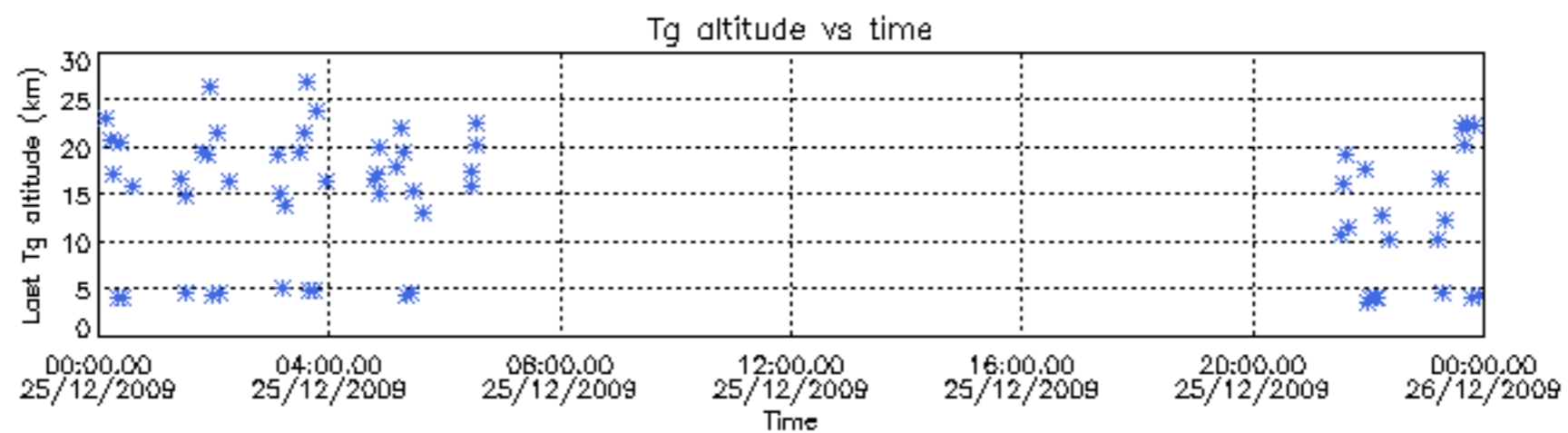
Percentage of saturation errors per profile

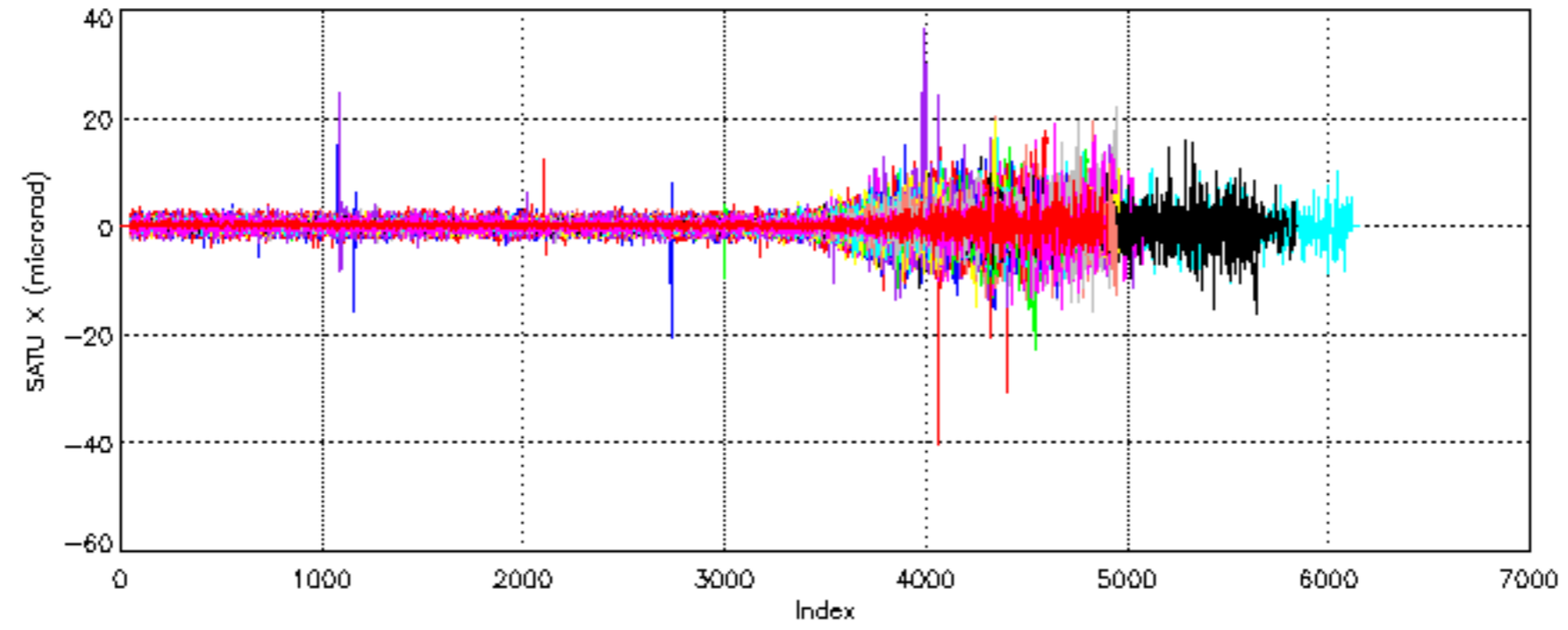


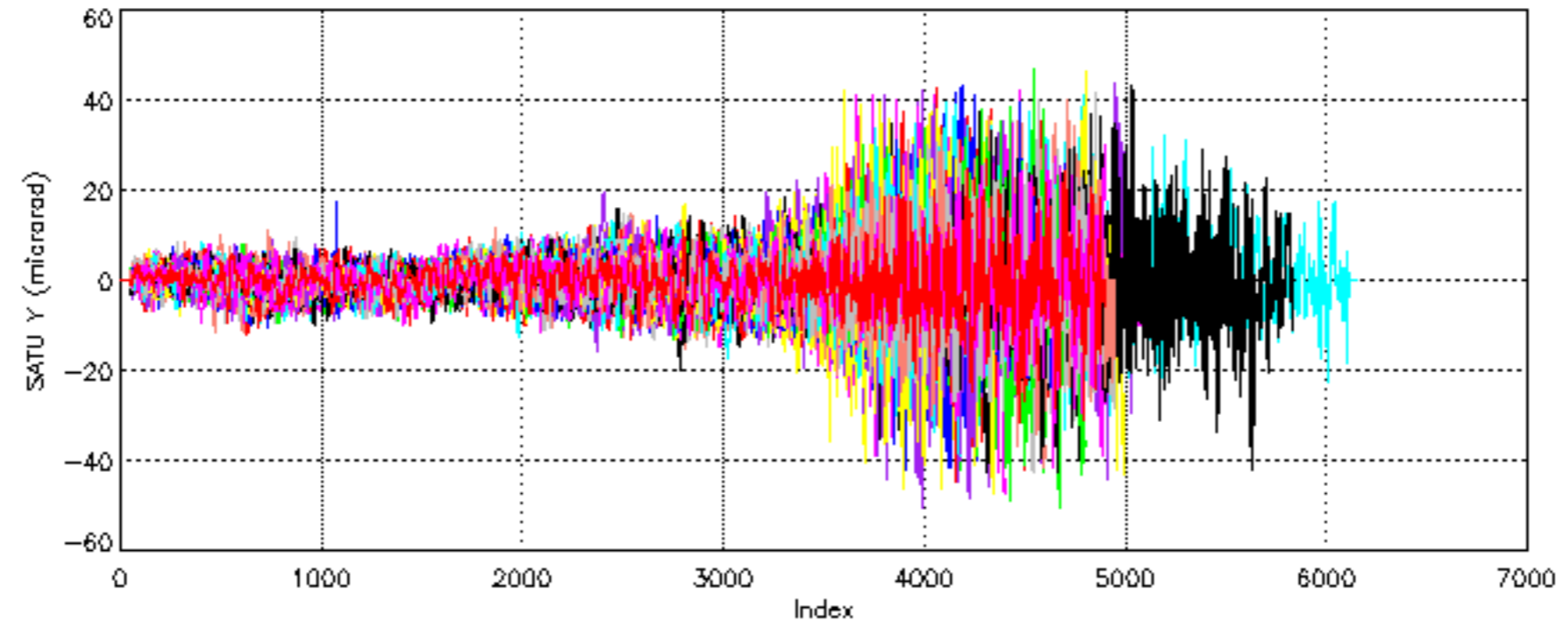
Tangent altitude at which the star is lost

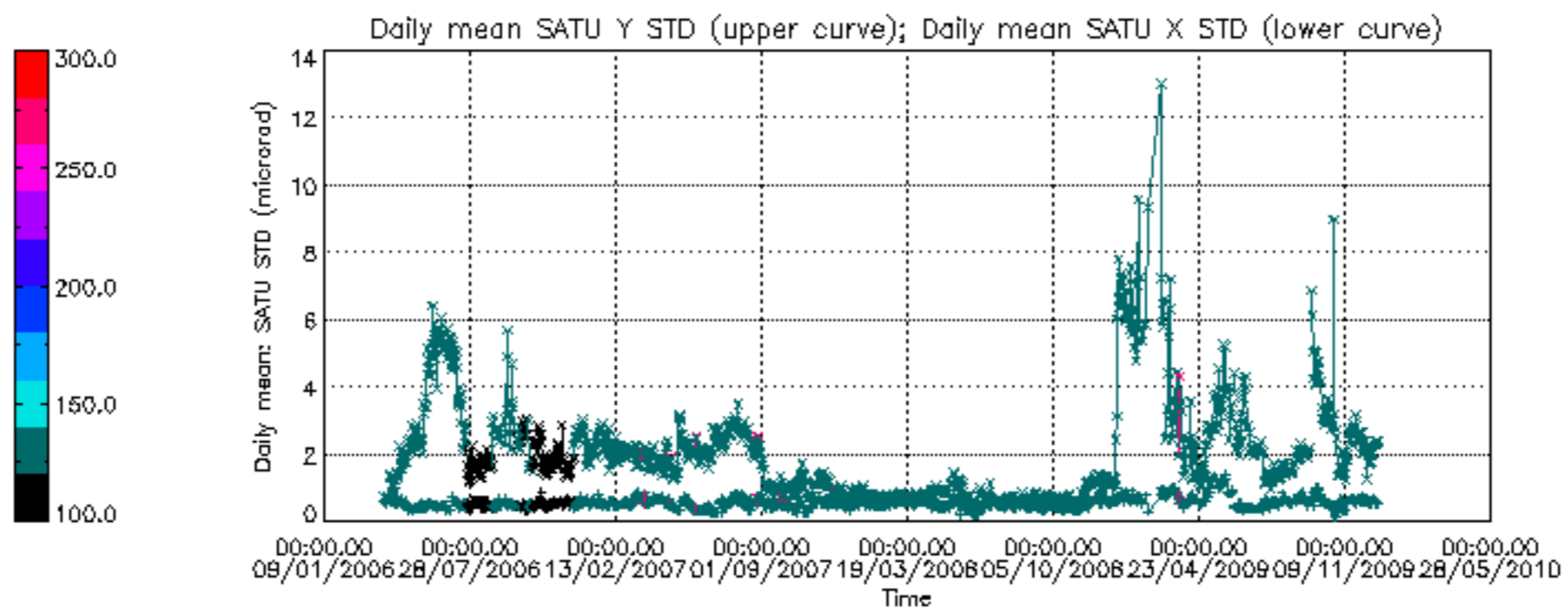


Tangent altitude at which the star is lost









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 4; 407.7; 01-DEC-2009 01:47:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40538
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 6; 2194.7; 12-DEC-2009 18:17:15; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40705  
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 9; 2589.8; 12-DEC-2009 18:23:50; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40705  
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 11; 2823.6; 12-DEC-2009 18:27:44; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;40705  
 12; 3752.6; 12-DEC-2009 18:43:13; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40705  
 13; 3992.3; 12-DEC-2009 18:47:13; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40705  
 14; 4139.7; 12-DEC-2009 18:49:40; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40705  
 15; 4333.6; 12-DEC-2009 18:52:54; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;40705  
 16; 4716.5; 12-DEC-2009 18:59:17; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40705  
 17; 4939.5; 12-DEC-2009 19:03:00; Bright; 55.0; 138; 47Eps Vir ; 2.83; 4700;occ; 110; 0;40705  
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 21; 5723.8; 12-DEC-2009 19:16:04; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;40705  
 22; 5948.9; 12-DEC-2009 19:19:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40705  
 23; 6043.6; 12-DEC-2009 19:21:24; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40705  
 24; 6264.7; 12-DEC-2009 19:25:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40705  
 25; 6504.3; 12-DEC-2009 19:29:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40705  
 26; 6580.0; 12-DEC-2009 19:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40705  
 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705  
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706  
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 5; 1748.3; 12-DEC-2009 19:50:25; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40706  
 6; 1890.9; 12-DEC-2009 19:52:47; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40706  
 7; 2035.6; 12-DEC-2009 19:55:12; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;40706  
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 11; 2589.7; 12-DEC-2009 20:04:26; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40706  
 12; 2695.2; 12-DEC-2009 20:06:12; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40706  
 13; 2822.9; 12-DEC-2009 20:08:19; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;40706  
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 15; 3992.0; 12-DEC-2009 20:27:49; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40706  
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 17; 4333.5; 12-DEC-2009 20:33:30; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40706  
 18; 4716.6; 12-DEC-2009 20:39:53; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40706  
 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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1; -740.3; 12-DEC-2009 20:49:32; Dark ; 45.0; 15; 67Alp Vir ; 0.98; 28000;occ; 90; 0;40706  
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 6; 8.2; 12-DEC-2009 21:02:01; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40707  
 7; 229.7; 12-DEC-2009 21:05:42; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40707  
 8; 468.7; 12-DEC-2009 21:09:41; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40707

9; 544.8; 12-DEC-2009 21:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40707  
10; 744.0; 12-DEC-2009 21:14:16; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40707  
11; 886.5; 12-DEC-2009 21:16:39; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;40707  
12; 1041.6; 12-DEC-2009 21:19:14; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40707  
13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707  
14; 1530.8; 12-DEC-2009 21:27:23; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;40707  
15; 1748.4; 12-DEC-2009 21:31:01; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40707  
16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707  
17; 2035.2; 12-DEC-2009 21:35:48; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40707  
18; 2194.4; 12-DEC-2009 21:38:27; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40707  
19; 2345.0; 12-DEC-2009 21:40:57; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40707  
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22; 2694.5; 12-DEC-2009 21:46:47; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;40707  
23; 2822.1; 12-DEC-2009 21:48:55; Bright; 66.0; 42; 34Bet Aur ; 1.90; 10200;occ; 132; 0;40707  
24; 3751.7; 12-DEC-2009 22:04:24; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40707  
25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707  
26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707  
27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707  
28; 4716.9; 12-DEC-2009 22:20:29; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40707  
29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707  
30; 5296.0; 12-DEC-2009 22:30:09; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;40707

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3; -405.7; 12-DEC-2009 22:35:43; Dark ; 53.5; 100; 4Gam Crv ; 2.58; 13100;occ; 107; 0;40707  
4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707  
5; -85.9; 12-DEC-2009 22:41:02; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40707  
6; 8.7; 12-DEC-2009 22:42:37; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40708  
7; 230.5; 12-DEC-2009 22:46:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40708  
8; 469.4; 12-DEC-2009 22:50:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40708  
9; 545.6; 12-DEC-2009 22:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40708  
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11; 886.9; 12-DEC-2009 22:57:15; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40708  
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13; 1244.3; 12-DEC-2009 23:03:13; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40708  
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19; 2344.7; 12-DEC-2009 23:21:33; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40708  
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22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708  
23; 2821.5; 12-DEC-2009 23:29:30; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;40708  
24; 3751.3; 12-DEC-2009 23:45:00; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40708  
25; 3991.3; 12-DEC-2009 23:49:00; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40708  
26; 4139.5; 12-DEC-2009 23:51:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40708  
27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708  
28; 4717.3; 13-DEC-2009 00:01:06; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40708  
29; 4941.2; 13-DEC-2009 00:04:50; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40708  
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4; -85.5; 13-DEC-2009 00:21:39; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40708  
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7; 470.0; 13-DEC-2009 00:30:54; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40709  
8; 546.4; 13-DEC-2009 00:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40709  
9; 745.4; 13-DEC-2009 00:35:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40709  
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22; 1890.1; 13-DEC-2009 05:56:22; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40712
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27; 2691.3; 13-DEC-2009 06:09:43; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;40712
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13; 4526.7; 14-DEC-2009 07:49:18; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;40727
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12; 4336.2; 14-DEC-2009 11:07:19; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;40729  
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12; 4138.8; 14-DEC-2009 12:44:38; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;40730  
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12; 4138.7; 14-DEC-2009 14:25:14; Bright; 55.5; 39; 85Eta UMa ; 1.85; 24000;occ; 111; 0;40731  
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4; 2072.0; 16-DEC-2009 14:28:09; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40760
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7; 2445.0; 16-DEC-2009 14:34:22; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40760
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15; 4338.9; 16-DEC-2009 16:46:32; Bright; 51.5; 180; 27Gam Boo ; 3.04; 8000;occ; 103; 0;40761  
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17; 4537.8; 18-DEC-2009 19:07:49; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;40791  
18; 4743.5; 18-DEC-2009 19:11:15; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40791  
19; 5357.3; 18-DEC-2009 19:21:29; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40791  
20; 5567.9; 18-DEC-2009 19:24:59; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40791  
21; 5731.7; 18-DEC-2009 19:27:43; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40791  
22; 6002.4; 18-DEC-2009 19:32:14; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40791  
23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791  
24; 6341.4; 18-DEC-2009 19:37:53; Dark ; 55.5; 113; Mu Vel ; 2.69; 5000;occ; 111; 0;40791  
25; 6557.4; 18-DEC-2009 19:41:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40791  
26; 6644.4; 18-DEC-2009 19:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40791  
27; 6840.4; 18-DEC-2009 19:46:12; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40791

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1; -676.3; 19-DEC-2009 00:23:19; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;40794  
2; -465.4; 19-DEC-2009 00:26:50; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40794  
3; -300.9; 19-DEC-2009 00:29:34; Dark ; 64.0; 106; 9Bet Crv ; 2.65; 5600;occ; 128; 0;40794  
4; -31.6; 19-DEC-2009 00:34:03; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40794  
5; 69.1; 19-DEC-2009 00:35:44; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40795  
6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795  
7; 523.3; 19-DEC-2009 00:43:18; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;40795  
8; 610.6; 19-DEC-2009 00:44:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40795  
9; 806.2; 19-DEC-2009 00:48:01; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40795  
10; 935.6; 19-DEC-2009 00:50:11; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40795  
11; 1091.1; 19-DEC-2009 00:52:46; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40795  
12; 1280.7; 19-DEC-2009 00:55:56; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40795  
13; 1385.0; 19-DEC-2009 00:57:40; Dark ; 53.5; 179; 240mi2CMa ; 3.03; 24000;occ; 107; 0;40795  
14; 1559.4; 19-DEC-2009 01:00:34; Dark ; 60.0; 1; 9Alp CMa ; -1.44; 11000;occ; 120; 0;40795  
15; 1752.0; 19-DEC-2009 01:03:47; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40795  
16; 1881.3; 19-DEC-2009 01:05:56; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40795  
17; 2061.4; 19-DEC-2009 01:08:56; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40795  
18; 2188.2; 19-DEC-2009 01:11:03; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40795  
19; 2308.7; 19-DEC-2009 01:13:04; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40795  
20; 2432.7; 19-DEC-2009 01:15:08; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40795  
21; 2639.5; 19-DEC-2009 01:18:34; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40795  
22; 2727.1; 19-DEC-2009 01:20:02; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40795  
23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795  
24; 3972.3; 19-DEC-2009 01:40:47; Bright; 55.5; 32; 77Eps UMa ; 1.76; 11000;occ; 111; 0;40795  
25; 4134.4; 19-DEC-2009 01:43:29; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;40795  
26; 4341.7; 19-DEC-2009 01:46:57; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40795  
27; 4538.5; 19-DEC-2009 01:50:13; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40795  
28; 4744.6; 19-DEC-2009 01:53:40; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;40795

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1; -675.3; 19-DEC-2009 02:03:56; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;40795  
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3; -299.7; 19-DEC-2009 02:10:11; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;40795  
4; -31.0; 19-DEC-2009 02:14:40; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40795  
5; 69.7; 19-DEC-2009 02:16:21; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;40796  
6; 308.9; 19-DEC-2009 02:20:20; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40796  
7; 523.7; 19-DEC-2009 02:23:55; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40796  
8; 611.3; 19-DEC-2009 02:25:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40796  
9; 807.0; 19-DEC-2009 02:28:38; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;40796  
10; 936.5; 19-DEC-2009 02:30:47; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40796

11; 1091.7; 19-DEC-2009 02:33:23; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40796  
 12; 1281.3; 19-DEC-2009 02:36:32; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;40796  
 13; 1385.5; 19-DEC-2009 02:38:16; Dark ; 51.0; 179; 240mi2CMA ; 3.03; 24000;occ; 102; 0;40796  
 14; 1559.8; 19-DEC-2009 02:41:11; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;40796  
 15; 1751.9; 19-DEC-2009 02:44:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40796  
 16; 1881.3; 19-DEC-2009 02:46:32; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;40796  
 17; 2061.4; 19-DEC-2009 02:49:32; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;40796  
 18; 2188.2; 19-DEC-2009 02:51:39; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;40796  
 19; 2308.6; 19-DEC-2009 02:53:39; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40796  
 20; 2432.4; 19-DEC-2009 02:55:43; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;40796  
 21; 2639.1; 19-DEC-2009 02:59:10; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40796  
 22; 2726.8; 19-DEC-2009 03:00:38; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40796

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1;-2332.5; 19-DEC-2009 03:16:54; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40796  
 2;-2063.8; 19-DEC-2009 03:21:23; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40796  
 3;-1901.4; 19-DEC-2009 03:24:05; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40796  
 4;-1693.9; 19-DEC-2009 03:27:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40796  
 5;-1497.1; 19-DEC-2009 03:30:50; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40796  
 6;-1290.6; 19-DEC-2009 03:34:16; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;40796  
 7; -674.7; 19-DEC-2009 03:44:32; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;40796  
 8; -463.9; 19-DEC-2009 03:48:03; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;40796  
 9; -298.4; 19-DEC-2009 03:50:48; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40796  
 10; -30.1; 19-DEC-2009 03:55:17; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;40796  
 11; 70.7; 19-DEC-2009 03:56:58; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40797  
 12; 309.8; 19-DEC-2009 04:00:57; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;40797  
 13; 524.4; 19-DEC-2009 04:04:31; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40797  
 14; 612.0; 19-DEC-2009 04:05:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40797  
 15; 807.7; 19-DEC-2009 04:09:15; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40797  
 16; 937.4; 19-DEC-2009 04:11:24; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40797  
 17; 1092.5; 19-DEC-2009 04:13:59; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40797  
 18; 1281.8; 19-DEC-2009 04:17:09; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40797  
 19; 1386.1; 19-DEC-2009 04:18:53; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40797  
 20; 1560.0; 19-DEC-2009 04:21:47; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;40797  
 21; 1752.2; 19-DEC-2009 04:24:59; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40797  
 22; 1881.8; 19-DEC-2009 04:27:09; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;40797  
 23; 2061.1; 19-DEC-2009 04:30:08; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40797  
 24; 2188.5; 19-DEC-2009 04:32:15; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40797  
 25; 2308.3; 19-DEC-2009 04:34:15; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40797  
 26; 2432.2; 19-DEC-2009 04:36:19; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40797  
 27; 2638.7; 19-DEC-2009 04:39:46; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40797  
 28; 2726.8; 19-DEC-2009 04:41:14; Bright; 45.0; 6; 13Alp Aur ; 0.08; 3400;occ; 90; 0;40797  
 29; 3703.6; 19-DEC-2009 04:57:30; Bright; 21.5; 60; 7Bet UMi ; 2.08; 3950;occ; 43; 0;40797

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1;-2332.4; 19-DEC-2009 04:57:30; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40797  
 2;-2064.0; 19-DEC-2009 05:01:59; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40797  
 3;-1901.5; 19-DEC-2009 05:04:41; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;40797  
 4;-1693.5; 19-DEC-2009 05:08:09; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;40797  
 5;-1497.1; 19-DEC-2009 05:11:26; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40797  
 6;-1290.6; 19-DEC-2009 05:14:52; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40797  
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 9; -297.3; 19-DEC-2009 05:31:26; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;40797  
 10; -29.6; 19-DEC-2009 05:35:53; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40797  
 11; 71.1; 19-DEC-2009 05:37:34; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40798  
 12; 310.8; 19-DEC-2009 05:41:34; Dark ; 54.5; 113; Mu Vel ; 2.69; 5000;occ; 109; 0;40798  
 13; 525.1; 19-DEC-2009 05:45:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40798  
 14; 612.7; 19-DEC-2009 05:46:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40798  
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 18; 1282.0; 19-DEC-2009 05:57:45; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;40798  
 19; 1386.2; 19-DEC-2009 05:59:29; Dark ; 51.5; 179; 240mi2CMA ; 3.03; 24000;occ; 103; 0;40798  
 20; 1560.2; 19-DEC-2009 06:02:23; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;40798  
 21; 1752.1; 19-DEC-2009 06:05:35; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40798  
 22; 1881.5; 19-DEC-2009 06:07:44; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40798  
 23; 2061.0; 19-DEC-2009 06:10:44; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;40798  
 24; 2188.5; 19-DEC-2009 06:12:51; Dark ; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;40798  
 25; 2308.0; 19-DEC-2009 06:14:51; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40798

26; 2431.8; 19-DEC-2009 06:16:55; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40798  
 27; 2638.0; 19-DEC-2009 06:20:21; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40798  
 28; 2726.4; 19-DEC-2009 06:21:49; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40798  
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 1; 944.1; 19-DEC-2009 20:57:30; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40807  
 2; 1097.5; 19-DEC-2009 21:00:04; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40807  
 3; 1285.4; 19-DEC-2009 21:03:12; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;40807  
 4; 1388.8; 19-DEC-2009 21:04:55; Dark ; 50.5; 179; 240mi2CMa ; 3.03; 24000;occ; 101; 0;40807  
 5; 1561.0; 19-DEC-2009 21:07:47; Dark ; 57.0; 1; 9Alp CMa ; -1.44; 11000;occ; 114; 0;40807  
 6; 1752.7; 19-DEC-2009 21:10:59; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40807  
 7; 1880.8; 19-DEC-2009 21:13:07; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40807  
 8; 2058.5; 19-DEC-2009 21:16:05; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;40807  
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 11; 2429.0; 19-DEC-2009 21:22:15; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40807  
 12; 2633.4; 19-DEC-2009 21:25:40; Bright; 63.0; 107; 37The Aur ; 2.65; 11000;occ; 126; 0;40807  
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 14; 3703.0; 19-DEC-2009 21:43:29; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40807  
 15; 3969.3; 19-DEC-2009 21:47:56; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;40807  
 16; 4133.3; 19-DEC-2009 21:50:40; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40807  
 17; 4342.6; 19-DEC-2009 21:54:09; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40807  
 18; 4540.5; 19-DEC-2009 21:57:27; Bright; 48.0; 83; ; 2.38; 11000;occ; 96; 0;40807  
 19; 4748.8; 19-DEC-2009 22:00:55; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40807  
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 2; -454.5; 19-DEC-2009 22:14:48; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;40807  
 3; -285.2; 19-DEC-2009 22:17:37; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40807  
 4; -22.8; 19-DEC-2009 22:21:59; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40807  
 5; 78.6; 19-DEC-2009 22:23:41; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40808  
 6; 319.9; 19-DEC-2009 22:27:42; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;40808  
 7; 531.2; 19-DEC-2009 22:31:13; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40808  
 8; 619.9; 19-DEC-2009 22:32:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40808  
 9; 815.1; 19-DEC-2009 22:35:57; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40808  
 10; 944.8; 19-DEC-2009 22:38:07; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40808  
 11; 1097.7; 19-DEC-2009 22:40:40; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40808  
 12; 1285.7; 19-DEC-2009 22:43:48; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;40808  
 13; 1389.0; 19-DEC-2009 22:45:31; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40808  
 14; 1561.0; 19-DEC-2009 22:48:23; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;40808  
 15; 1752.7; 19-DEC-2009 22:51:35; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40808  
 16; 1880.7; 19-DEC-2009 22:53:43; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40808  
 17; 2058.1; 19-DEC-2009 22:56:40; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;40808  
 18; 2188.2; 19-DEC-2009 22:58:50; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40808  
 19; 2304.9; 19-DEC-2009 23:00:47; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40808  
 20; 2428.8; 19-DEC-2009 23:02:51; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;40808  
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 21; 2617.5; 22-DEC-2009 03:04:34; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40839  
 22; 2715.4; 22-DEC-2009 03:06:11; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40839

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13; 3701.2; 22-DEC-2009 18:28:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40848  
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 16; 4345.9; 22-DEC-2009 18:38:46; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;40848  
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 19; 5407.5; 22-DEC-2009 18:56:27; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;40848  
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 22; 6041.7; 22-DEC-2009 19:07:01; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40848  
 23; 6140.3; 22-DEC-2009 19:08:40; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;40848  
 24; 6393.1; 22-DEC-2009 19:12:53; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40848  
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 26; 6684.6; 22-DEC-2009 19:17:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40848  
 27; 6774.3; 22-DEC-2009 19:19:14; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;40848  
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 4; 1300.2; 22-DEC-2009 19:28:36; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40849  
 5; 1401.0; 22-DEC-2009 19:30:17; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;40849  
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 21; 5683.8; 22-DEC-2009 20:41:39; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;40849  
 22; 5804.6; 22-DEC-2009 20:43:40; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40849  
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 27; 6699.0; 22-DEC-2009 20:58:35; Dark ; 55.5; 41; Eps Car ; 1.86; 4100;occ; 111; 0;40849  
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 6; 360.7; 23-DEC-2009 01:55:20; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40853  
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 9; 843.8; 23-DEC-2009 02:03:23; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40853  
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 12; 1301.7; 23-DEC-2009 02:11:01; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;40853  
 13; 1402.0; 23-DEC-2009 02:12:41; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40853  
 14; 1566.4; 23-DEC-2009 02:15:26; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;40853  
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13; 665.3; 23-DEC-2009 03:41:00; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;40854
14; 844.4; 23-DEC-2009 03:43:59; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40854
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16; 1120.1; 23-DEC-2009 03:48:35; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40854
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22; 1879.1; 23-DEC-2009 05:41:50; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;40855
23; 2048.0; 23-DEC-2009 05:44:39; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40855
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 23; 4127.6; 23-DEC-2009 23:05:18; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40865  
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 26; 4771.0; 23-DEC-2009 23:16:02; Bright; 65.5; 111; 8Eta Boo ; 2.68; 6000;occ; 131; 0;40865

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 22; 3952.7; 24-DEC-2009 00:42:59; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;40866  
 23; 4127.5; 24-DEC-2009 00:45:54; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40866  
 24; 4347.4; 24-DEC-2009 00:49:34; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40866  
 25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866  
 26; 4771.3; 24-DEC-2009 00:56:38; Bright; 66.5; 111; 8Eta Boo ; 2.68; 6000;occ; 133; 0;40866

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11; 97.4; 23-DEC-2009 06:52:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40856  
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14; 666.3; 23-DEC-2009 07:02:13; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;40856  
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17; 1121.2; 23-DEC-2009 07:09:48; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40856  
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8; 3700.8; 23-DEC-2009 07:52:48; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;40856  
9; 3955.6; 23-DEC-2009 07:57:03; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40856  
10; 4128.8; 23-DEC-2009 07:59:56; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40856  
11; 4346.7; 23-DEC-2009 08:03:34; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40856  
12; 4549.7; 23-DEC-2009 08:06:57; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40856  
13; 4767.3; 23-DEC-2009 08:10:34; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40856  
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15; 5687.8; 23-DEC-2009 08:25:55; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;40856  
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17; 5818.3; 23-DEC-2009 13:29:53; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;40859
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13; 4347.2; 23-DEC-2009 14:45:58; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40860  
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21; 6404.0; 23-DEC-2009 15:20:15; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40860  
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23; 6704.7; 23-DEC-2009 15:25:15; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;40860  
24; 6884.9; 23-DEC-2009 15:28:16; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40860  
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26; 7159.1; 23-DEC-2009 15:32:50; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40860

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9; 2415.1; 23-DEC-2009 15:54:22; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40861  
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11; 2710.4; 23-DEC-2009 15:59:17; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40861  
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13; 3954.3; 23-DEC-2009 16:20:01; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;40861  
14; 4128.1; 23-DEC-2009 16:22:55; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;40861  
15; 4347.2; 23-DEC-2009 16:26:34; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40861  
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17; 4769.7; 23-DEC-2009 16:33:36; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40861  
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21; 6050.9; 23-DEC-2009 16:54:58; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40861  
22; 6138.6; 23-DEC-2009 16:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40861  
23; 6404.9; 23-DEC-2009 17:00:52; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40861  
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27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861  
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13; 3700.4; 23-DEC-2009 17:56:23; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40862  
14; 3954.0; 23-DEC-2009 18:00:37; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40862  
15; 4128.0; 23-DEC-2009 18:03:31; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;40862  
16; 4347.2; 23-DEC-2009 18:07:10; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40862  
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 22; 6051.6; 23-DEC-2009 18:35:34; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40862  
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 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863  
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 23; 3952.3; 24-DEC-2009 02:23:35; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40867  
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8; 19.2; 24-DEC-2009 02:58:37; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40868  
9; 107.9; 24-DEC-2009 03:00:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40868  
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2; 1425.7; 29-DEC-2009 15:49:23; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;40947  
3; 1577.4; 29-DEC-2009 15:51:54; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;40947  
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5; 1879.7; 29-DEC-2009 15:56:57; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;40947  
6; 2035.3; 29-DEC-2009 15:59:32; Dark ; 54.5; 14; 58Alp Ori ; 0.87; 3000;occ; 109; 0;40947  
7; 2241.9; 29-DEC-2009 16:02:59; Dark ; 65.0; 44; 24Gam Gem ; 1.93; 11000;occ; 130; 0;40947  
8; 2338.9; 29-DEC-2009 16:04:36; Bright; 51.5; 151; 13Mu Gem ; 2.89; 3000;occ; 103; 0;40947  
9; 2422.6; 29-DEC-2009 16:06:00; Bright; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;40947  
10; 2576.6; 29-DEC-2009 16:08:34; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;40947  
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12; 3618.5; 29-DEC-2009 16:25:55; Bright; 25.0; 36; 50Alp UMa ; 1.80; 6300;occ; 50; 0;40947  
13; 3694.2; 29-DEC-2009 16:27:11; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;40947  
14; 3925.1; 29-DEC-2009 16:31:02; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;40947  
15; 4115.3; 29-DEC-2009 16:34:12; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;40947  
16; 4351.6; 29-DEC-2009 16:38:09; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;40947  
17; 4567.4; 29-DEC-2009 16:41:44; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40947  
18; 4757.2; 29-DEC-2009 16:44:54; Bright; 49.5; 3; 16Alp Boo ; -0.05; 4250;occ; 99; 0;40947  
19; 5179.9; 29-DEC-2009 16:51:57; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;40947  
20; 5334.7; 29-DEC-2009 16:54:32; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;40947  
21; 5743.8; 29-DEC-2009 17:01:21; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;40947  
22; 5912.6; 29-DEC-2009 17:04:10; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;40947  
23; 6116.0; 29-DEC-2009 17:07:33; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40947  
24; 6215.5; 29-DEC-2009 17:09:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40947  
25; 6482.9; 29-DEC-2009 17:13:40; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;40947  
26; 6648.4; 29-DEC-2009 17:16:25; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;40947  
27; 6746.5; 29-DEC-2009 17:18:03; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;40947  
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29; 7066.6; 29-DEC-2009 17:23:23; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;40947  
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3; 1425.9; 29-DEC-2009 17:29:59; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;40948  
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13; 3694.1; 29-DEC-2009 18:07:47; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40948  
14; 3924.5; 29-DEC-2009 18:11:37; Bright; 49.0; 32; 77Eps UMa ; 1.76; 11000;occ; 98; 0;40948  
15; 4115.2; 29-DEC-2009 18:14:48; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;40948  
16; 4351.8; 29-DEC-2009 18:18:45; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;40948  
17; 4567.5; 29-DEC-2009 18:22:20; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;40948  
18; 4757.5; 29-DEC-2009 18:25:30; Bright; 50.0; 3; 16Alp Boo ; -0.05; 4250;occ; 100; 0;40948  
19; 5180.4; 29-DEC-2009 18:32:33; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;40948  
20; 5335.3; 29-DEC-2009 18:35:08; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;40948  
21; 5744.3; 29-DEC-2009 18:41:57; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;40948  
22; 5913.2; 29-DEC-2009 18:44:46; Dark ; 44.5; 95; Zet Cen ; 2.55; 26000;occ; 89; 0;40948  
23; 6116.7; 29-DEC-2009 18:48:10; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40948  
24; 6216.4; 29-DEC-2009 18:49:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40948  
25; 6483.9; 29-DEC-2009 18:54:17; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;40948  
26; 6649.0; 29-DEC-2009 18:57:02; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40948  
27; 6747.2; 29-DEC-2009 18:58:40; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;40948  
28; 6935.2; 29-DEC-2009 19:01:48; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40948  
29; 7067.2; 29-DEC-2009 19:04:00; Dark ; 34.5; 70; Zet Pup ; 2.25; 39000;occ; 69; 0;40948



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 5; 1577.6; 29-DEC-2009 19:13:07; Dark ; 50.0; 1; 9Alp CMa ; -1.44; 11000;occ; 100; 0;40949  
 6; 1728.3; 29-DEC-2009 19:15:37; Dark ; 42.0; 56; 53Kap Ori ; 2.07; 30000;occ; 84; 0;40949  
 7; 1879.7; 29-DEC-2009 19:18:09; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;40949  
 8; 2035.0; 29-DEC-2009 19:20:44; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;40949  
 9; 2241.1; 29-DEC-2009 19:24:10; Dark ; 60.5; 44; 24Gam Gem ; 1.93; 11000;occ; 121; 0;40949  
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 11; 2421.5; 29-DEC-2009 19:27:10; Bright; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;40949  
 12; 2575.9; 29-DEC-2009 19:29:45; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;40949  
 13; 2695.8; 29-DEC-2009 19:31:45; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;40949  
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 15; 3924.2; 29-DEC-2009 19:52:13; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40949  
 16; 4115.0; 29-DEC-2009 19:55:24; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;40949  
 17; 4351.6; 29-DEC-2009 19:59:21; Bright; 61.0; 180; 27Gam Boo ; 3.04; 8000;occ; 122; 0;40949  
 18; 4567.8; 29-DEC-2009 20:02:57; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;40949  
 19; 4757.8; 29-DEC-2009 20:06:07; Bright; 51.0; 3; 16Alp Boo ; -0.05; 4250;occ; 102; 0;40949  
 20; 5180.8; 29-DEC-2009 20:13:10; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;40949  
 21; 5335.9; 29-DEC-2009 20:15:45; Dark ; 43.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 87; 0;40949  
 22; 5745.0; 29-DEC-2009 20:22:34; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;40949  
 23; 5913.7; 29-DEC-2009 20:25:23; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;40949  
 24; 6117.3; 29-DEC-2009 20:28:46; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;40949  
 25; 6217.3; 29-DEC-2009 20:30:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40949  
 26; 6484.5; 29-DEC-2009 20:34:53; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40949  
 27; 6649.4; 29-DEC-2009 20:37:38; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;40949  
 28; 6747.6; 29-DEC-2009 20:39:17; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40949  
 29; 6935.9; 29-DEC-2009 20:42:25; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40949

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 4; 83.8; 30-DEC-2009 01:30:36; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;40953  
 5; 184.1; 30-DEC-2009 01:32:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40953  
 6; 451.2; 30-DEC-2009 01:36:44; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;40953  
 7; 615.2; 30-DEC-2009 01:39:28; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40953  
 8; 713.0; 30-DEC-2009 01:41:06; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;40953  
 9; 901.4; 30-DEC-2009 01:44:14; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40953  
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 11; 1162.1; 30-DEC-2009 01:48:35; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;40953  
 12; 1332.8; 30-DEC-2009 01:51:25; Dark ; 47.0; 23; 21Eps CMa ; 1.50; 26000;occ; 94; 0;40953  
 13; 1427.1; 30-DEC-2009 01:53:00; Dark ; 46.5; 179; 240mi2CMa ; 3.03; 24000;occ; 93; 0;40953  
 14; 1577.9; 30-DEC-2009 01:55:30; Dark ; 50.0; 1; 9Alp CMa ; -1.44; 11000;occ; 100; 0;40953  
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 16; 1880.1; 30-DEC-2009 02:00:33; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40953  
 17; 2034.6; 30-DEC-2009 02:03:07; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;40953  
 18; 2239.5; 30-DEC-2009 02:06:32; Dark ; 53.0; 44; 24Gam Gem ; 1.93; 11000;occ; 106; 0;40953  
 19; 2336.5; 30-DEC-2009 02:08:09; Bright; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;40953  
 20; 2419.4; 30-DEC-2009 02:09:32; Bright; 46.0; 170; 27Eps Gem ; 3.00; 9700;occ; 92; 0;40953  
 21; 2574.9; 30-DEC-2009 02:12:07; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;40953  
 22; 2695.2; 30-DEC-2009 02:14:08; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40953  
 23; 3693.6; 30-DEC-2009 02:30:46; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40953

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 8; -119.7; 30-DEC-2009 03:07:49; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;40953  
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19; 1578.1; 30-DEC-2009 03:36:07; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;40954
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27; 2695.3; 30-DEC-2009 03:54:44; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40954
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