

# GOMOS Daily Report 11-JAN-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	16JAN2011 05:34:13
Data source version	GOMOS/5.01
Start time of products	11JAN2011 00:01:55
Stop time of products	11JAN2011 23:57:26
Store outputs in DB	Yes
Nb of level 1b prods	102
Nb of prods with errors	2

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

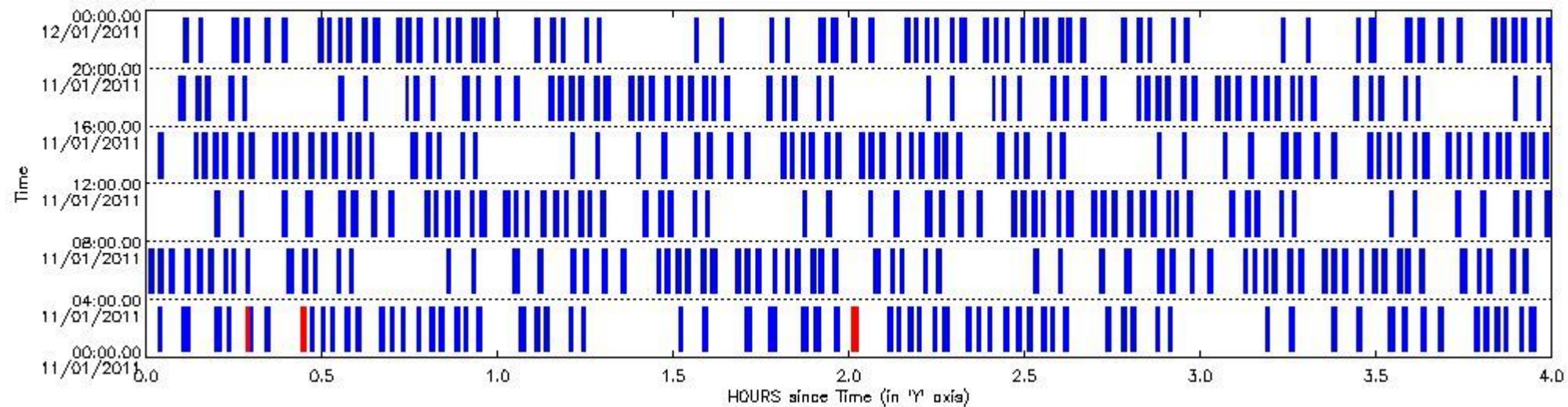
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

UTC start time	Star name	Star ID	Orbit
11-JAN-2011 00:17:09	27BetLib	104	46352
11-JAN-2011 00:26:22	BetLup	109	46352
11-JAN-2011 02:00:26	9Alp2Lib	122	46353

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

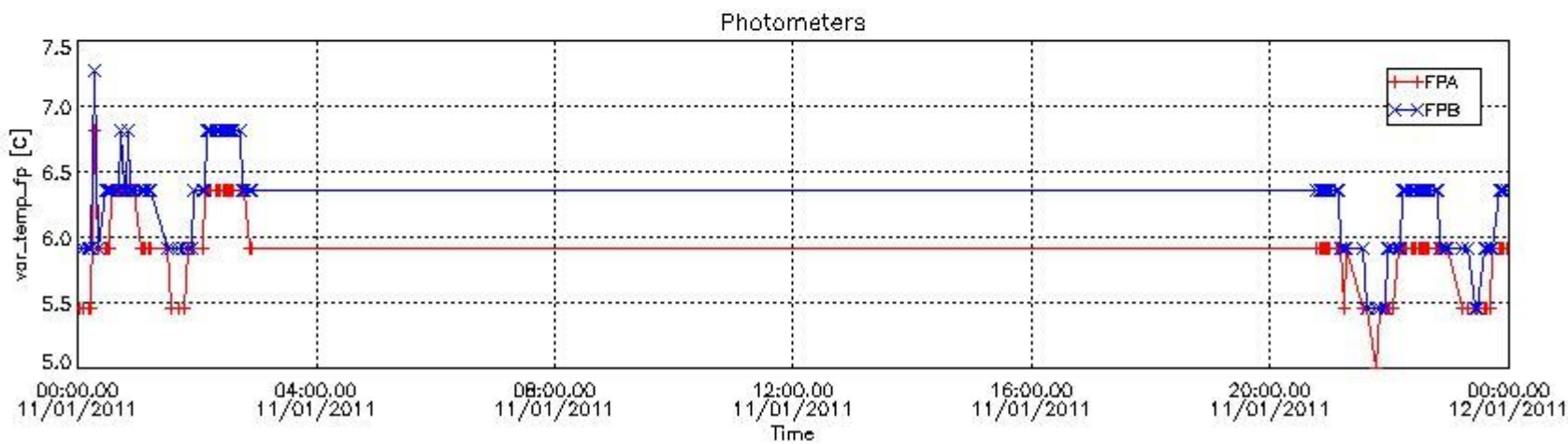
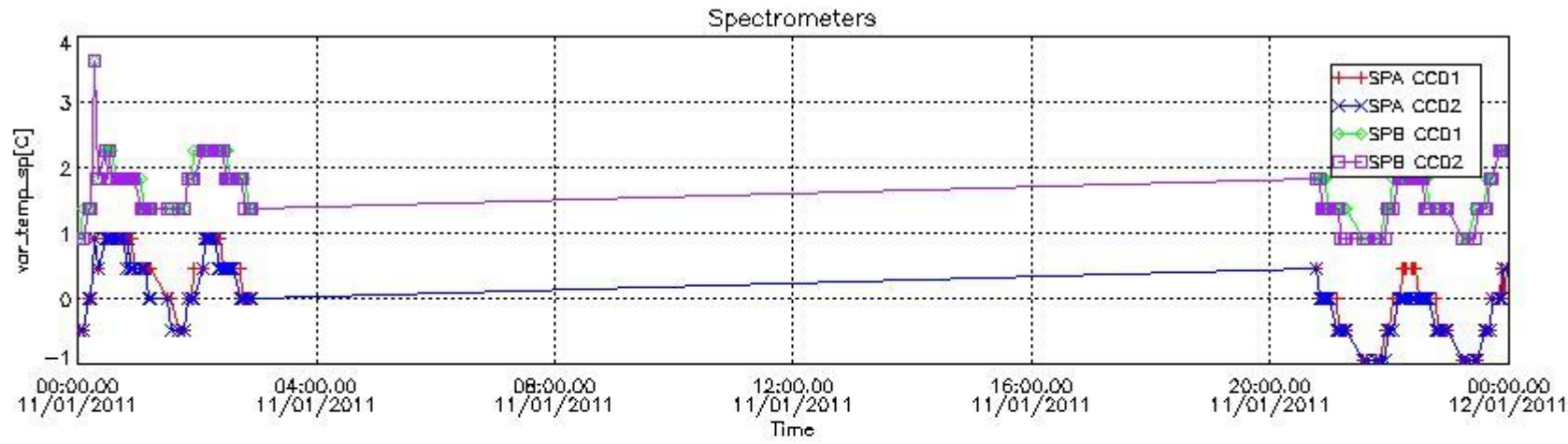
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110111_000155_000000463098_00217_46352_3143.N1	11-JAN-2011 00:01:55	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	46352	No
2	GOM_TRA_1PNPDE20110111_000608_000000723098_00217_46352_3144.N1	11-JAN-2011 00:06:08	Bright	72.000	83		2.3780	11000.	144	46352	No
3	GOM_TRA_1PNPDE20110111_001141_000000593098_00217_46352_3145.N1	11-JAN-2011 00:11:41	Bright	59.000	102	24Alp Ser	2.6000	4250.0	118	46352	No
4	GOM_TRA_1PNPDE20110111_001353_000000323098_00217_46352_3146.N1	11-JAN-2011 00:13:53	Bright	31.500	120	1Del Oph	2.7340	3200.0	63	46352	No
5	GOM_TRA_1PNPDE20110111_001712_000000493098_00217_46352_3162.N1	11-JAN-2011 00:17:12	Twilight_stray	48.500	104	27Bet Lib	2.6140	13100.	97	46352	Yes
6	GOM_TRA_1PNPDE20110111_002014_000000503098_00217_46352_3163.N1	11-JAN-2011 00:20:14	Straylight	49.500	122	9Alp2Lib	2.7470	9700.0	99	46352	No
7	GOM_TRA_1PNPDE20110111_002756_000000443098_00217_46352_3164.N1	11-JAN-2011 00:27:56	Dark	44.000	78	Alp Lup	2.3040	28000.	88	46352	No
8	GOM_TRA_1PNPDE20110111_002947_000000433098_00217_46352_3165.N1	11-JAN-2011 00:29:47	Dark	43.000	95	Zet Cen	2.5450	26000.	86	46352	No



68	GOM_TRA_1PNPDE20110111_215700_000000553098_00230_46365_3353.N1	11-JAN-2011 21:57:00	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46365	No
69	GOM_TRA_1PNPDE20110111_220024_000000483098_00230_46365_3365.N1	11-JAN-2011 22:00:24	Twilight	47.500	104	27Bet Lib	2.6140	13100.	95	46365	No
70	GOM_TRA_1PNPDE20110111_220328_000000513098_00230_46365_3366.N1	11-JAN-2011 22:03:28	Straylight	50.500	122	9Alp2Lib	2.7470	9700.0	101	46365	No
71	GOM_TRA_1PNPDE20110111_220936_000000403098_00230_46365_3367.N1	11-JAN-2011 22:09:36	Dark	39.500	109	Bet Lup	2.6770	26000.	79	46365	No
72	GOM_TRA_1PNPDE20110111_221106_000000413098_00230_46365_3368.N1	11-JAN-2011 22:11:06	Dark	40.500	78	Alp Lup	2.3040	28000.	81	46365	No
73	GOM_TRA_1PNPDE20110111_221300_000000433098_00231_46366_3369.N1	11-JAN-2011 22:13:00	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46366	No
74	GOM_TRA_1PNPDE20110111_221433_000000413098_00231_46366_3370.N1	11-JAN-2011 22:14:33	Dark	41.000	77	Eps Cen	2.3030	28000.	82	46366	No
75	GOM_TRA_1PNPDE20110111_221712_000000413098_00231_46366_3371.N1	11-JAN-2011 22:17:12	Dark	41.000	20	Bet Cru	1.2530	30000.	82	46366	No
76	GOM_TRA_1PNPDE20110111_222303_000000493098_00231_46366_3372.N1	11-JAN-2011 22:23:03	Dark	49.000	113	Mu Vel	2.6920	5000.0	98	46366	No
77	GOM_TRA_1PNPDE20110111_222442_000000433098_00231_46366_3373.N1	11-JAN-2011 22:24:42	Dark	42.500	71	lot Car	2.2460	7700.0	85	46366	No
78	GOM_TRA_1PNPDE20110111_222634_000000433098_00231_46366_3374.N1	11-JAN-2011 22:26:34	Dark	43.000	46	Del Vel	1.9540	10600.	86	46366	No
79	GOM_TRA_1PNPDE20110111_222919_000000433098_00231_46366_3375.N1	11-JAN-2011 22:29:19	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	46366	No
80	GOM_TRA_1PNPDE20110111_223128_000000443098_00231_46366_3376.N1	11-JAN-2011 22:31:28	Dark	43.500	70	Zet Pup	2.2460	39000.	87	46366	No
81	GOM_TRA_1PNPDE20110111_223313_000000453098_00231_46366_3377.N1	11-JAN-2011 22:33:13	Straylight	44.500	117	Pi Pup	2.7060	3800.0	89	46366	No
82	GOM_TRA_1PNPDE20110111_223548_000000453098_00231_46366_3378.N1	11-JAN-2011 22:35:48	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	46366	No
83	GOM_TRA_1PNPDE20110111_223714_000000423098_00231_46366_3379.N1	11-JAN-2011 22:37:14	Straylight	42.000	179	24Omi2CMa	3.0320	24000.	84	46366	No
84	GOM_TRA_1PNPDE20110111_223930_000000543098_00231_46366_3380.N1	11-JAN-2011 22:39:30	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	46366	No
85	GOM_TRA_1PNPDE20110111_224631_000000563098_00231_46366_3381.N1	11-JAN-2011 22:46:31	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	46366	No
86	GOM_TRA_1PNPDE20110111_224919_000000423098_00231_46366_3382.N1	11-JAN-2011 22:49:19	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	46366	No
87	GOM_TRA_1PNPDE20110111_225101_000000423098_00231_46366_3383.N1	11-JAN-2011 22:51:01	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46366	No
88	GOM_TRA_1PNPDE20110111_225507_000000363098_00231_46366_3384.N1	11-JAN-2011 22:55:07	Bright	36.000	107	37The Aur	2.6490	11000.	72	46366	No
89	GOM_TRA_1PNPDE20110111_225719_000000363098_00231_46366_3385.N1	11-JAN-2011 22:57:19	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	46366	No
90	GOM_TRA_1PNPDE20110111_231351_000000373098_00231_46366_3386.N1	11-JAN-2011 23:13:51	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	46366	No
91	GOM_TRA_1PNPDE20110111_231803_000000443098_00231_46366_3387.N1	11-JAN-2011 23:18:03	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	46366	No
92	GOM_TRA_1PNPDE20110111_232644_000000353098_00231_46366_3388.N1	11-JAN-2011 23:26:44	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	46366	No
93	GOM_TRA_1PNPDE20110111_232853_000000613098_00231_46366_3389.N1	11-JAN-2011 23:28:53	Bright	61.000	67	5Alp CrB	2.2210	11000.	122	46366	No
94	GOM_TRA_1PNPDE20110111_233504_000000603098_00231_46366_3390.N1	11-JAN-2011 23:35:04	Bright	60.000	102	24Alp Ser	2.6000	4250.0	120	46366	No
95	GOM_TRA_1PNPDE20110111_233714_000000553098_00231_46366_3391.N1	11-JAN-2011 23:37:14	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46366	No
96	GOM_TRA_1PNPDE20110111_234038_000000453098_00231_46366_3392.N1	11-JAN-2011 23:40:38	Twilight	45.000	104	27Bet Lib	2.6140	13100.	90	46366	No
97	GOM_TRA_1PNPDE20110111_234343_000000493098_00231_46366_3387.N1	11-JAN-2011 23:43:43	Straylight	48.500	122	9Alp2Lib	2.7470	9700.0	97	46366	No
98	GOM_TRA_1PNPDE20110111_234950_000000403098_00231_46366_3388.N1	11-JAN-2011 23:49:50	Dark	40.000	109	Bet Lup	2.6770	26000.	80	46366	No
99	GOM_TRA_1PNPDE20110111_235120_000000423098_00231_46366_3389.N1	11-JAN-2011 23:51:20	Dark	42.000	78	Alp Lup	2.3040	28000.	84	46366	No
100	GOM_TRA_1PNPDE20110111_235314_000000433098_00232_46367_3390.N1	11-JAN-2011 23:53:14	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46367	No
101	GOM_TRA_1PNPDE20110111_235448_000000443098_00232_46367_3391.N1	11-JAN-2011 23:54:48	Dark	43.500	77	Eps Cen	2.3030	28000.	87	46367	No
102	GOM_TRA_1PNPDE20110111_235726_000000423098_00232_46367_3392.N1	11-JAN-2011 23:57:26	Dark	41.500	20	Bet Cru	1.2530	30000.	83	46367	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).

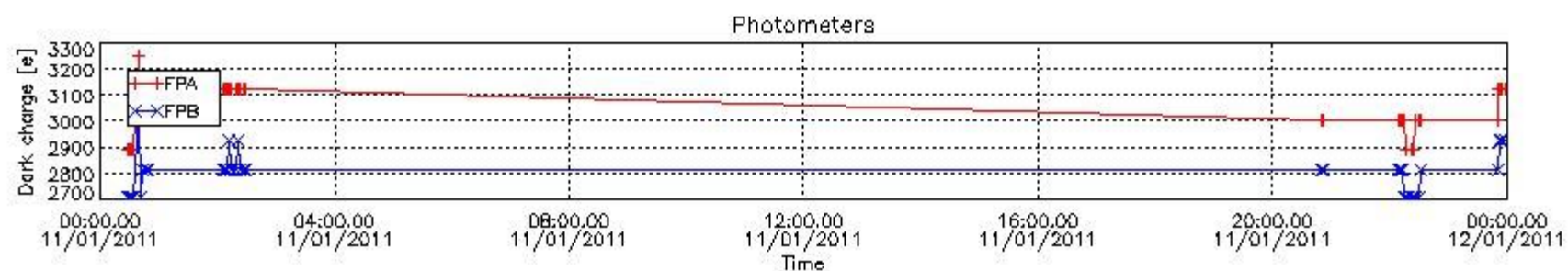
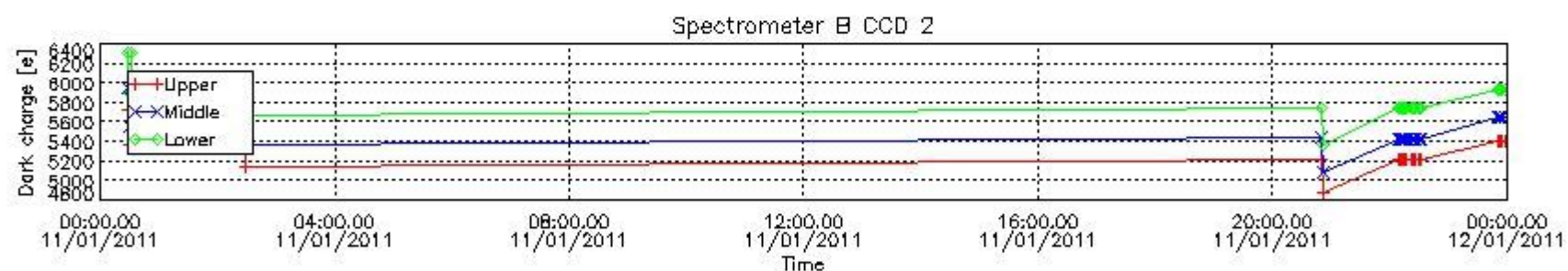
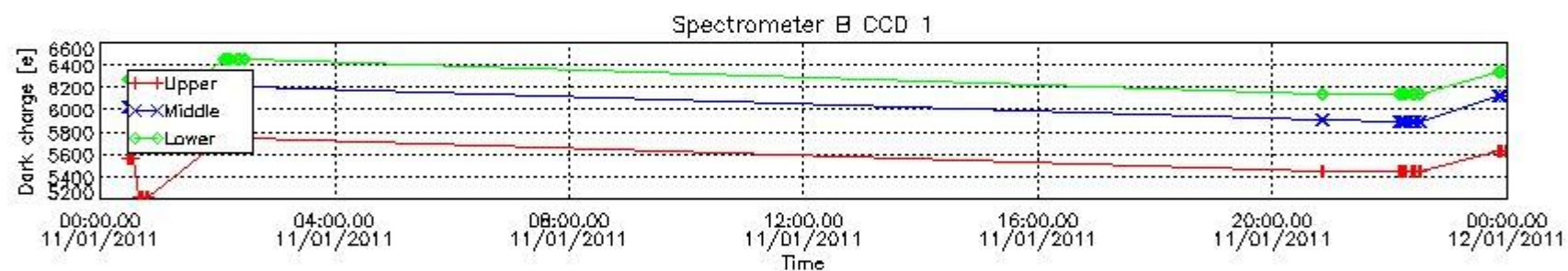
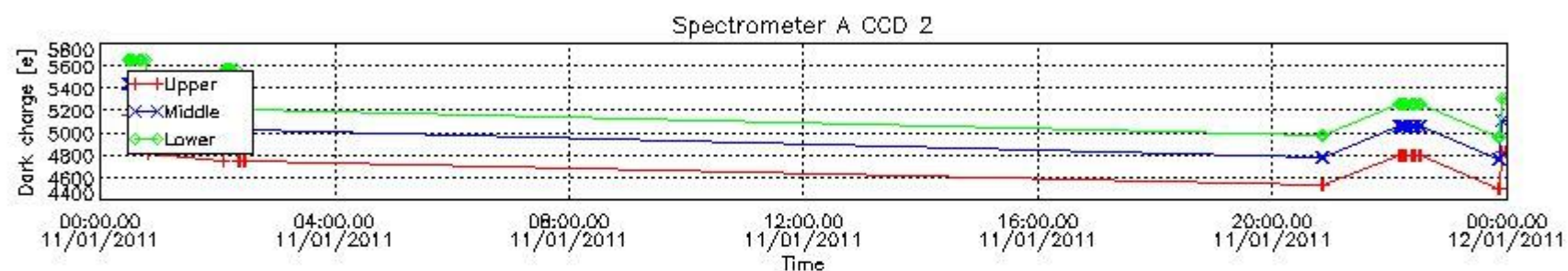
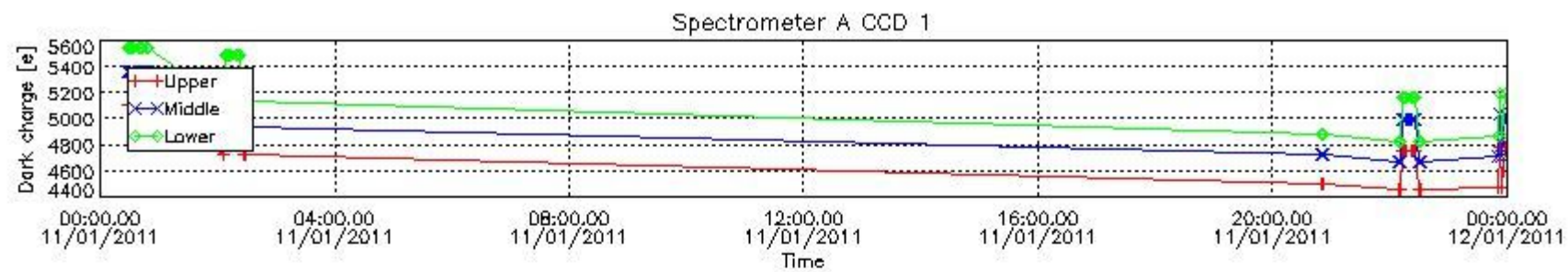
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110111_204620_000000453098_00230_46365_3336.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110111_204905_000000443098_00230_46365_3337.N1	DC map used
GOM_TRA_1PNPDE20110111_205113_000000453098_00230_46365_3338.N1	DC map used
GOM_TRA_1PNPDE20110111_205259_000000463098_00230_46365_3339.N1	DC map used
GOM_TRA_1PNPDE20110111_205534_000000453098_00230_46365_3340.N1	DC map used
GOM_TRA_1PNPDE20110111_205700_000000433098_00230_46365_3341.N1	DC map used
GOM_TRA_1PNPDE20110111_205916_000000533098_00230_46365_3342.N1	DC map used
GOM_TRA_1PNPDE20110111_210618_000000563098_00230_46365_3343.N1	DC map used
GOM_TRA_1PNPDE20110111_210905_000000403098_00230_46365_3344.N1	DC map used
GOM_TRA_1PNPDE20110111_211047_000000403098_00230_46365_3345.N1	DC map used
GOM_TRA_1PNPDE20110111_211453_000000383098_00230_46365_3346.N1	DC map used
GOM_TRA_1PNPDE20110111_211705_000000383098_00230_46365_3347.N1	DC map used
GOM_TRA_1PNPDE20110111_213337_000000393098_00230_46365_3348.N1	DC map used
GOM_TRA_1PNPDE20110111_213749_000000383098_00230_46365_3349.N1	DC map used

GOM_TRA_1PNPDE20110111_214630_000000353098_00230_46365_3350.N1	DC map used
GOM_TRA_1PNPDE20110111_214913_000000293098_00230_46365_3351.N1	DC map used
GOM_TRA_1PNPDE20110111_215449_000000603098_00230_46365_3352.N1	DC map used
GOM_TRA_1PNPDE20110111_215700_000000553098_00230_46365_3353.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

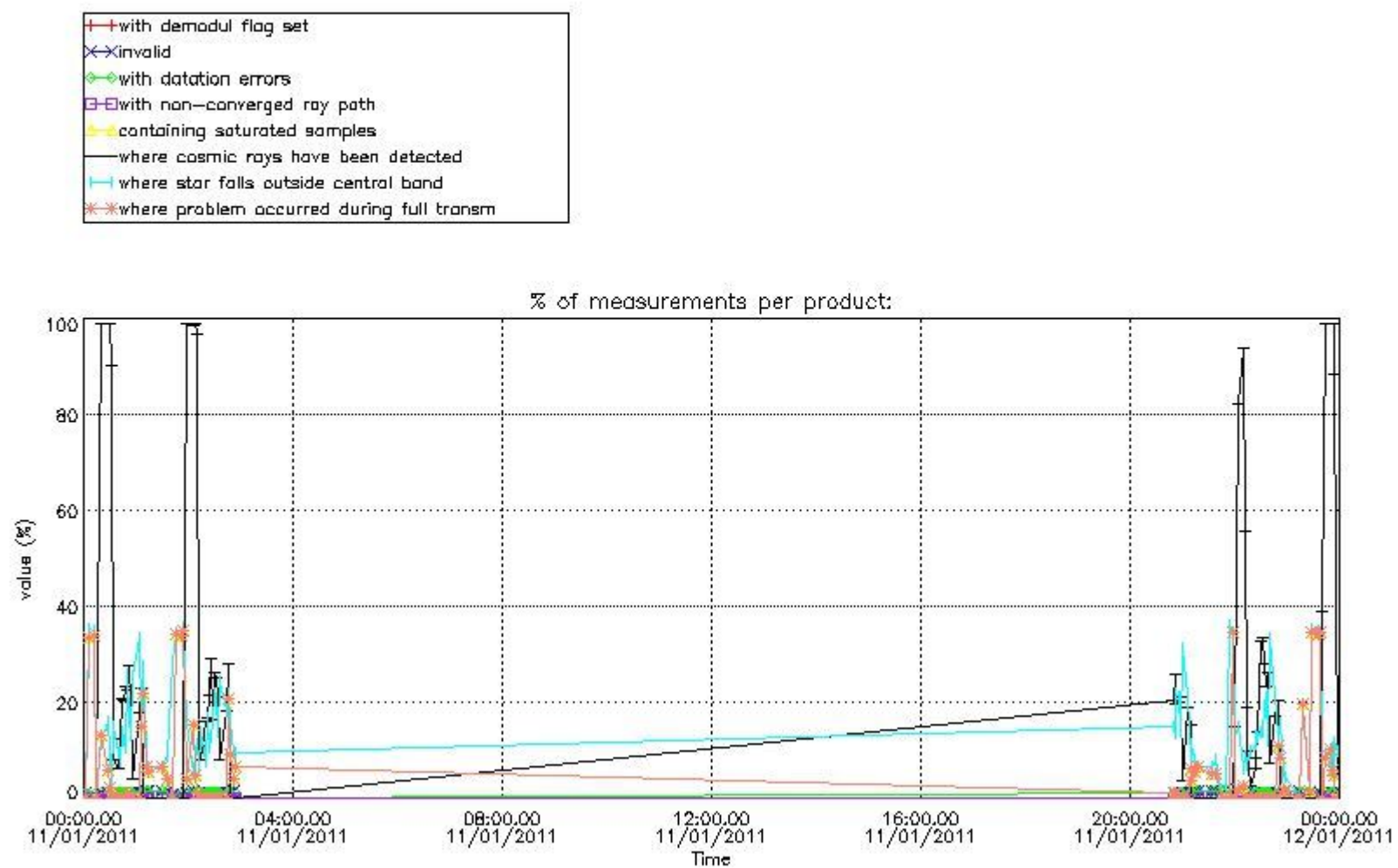
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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:

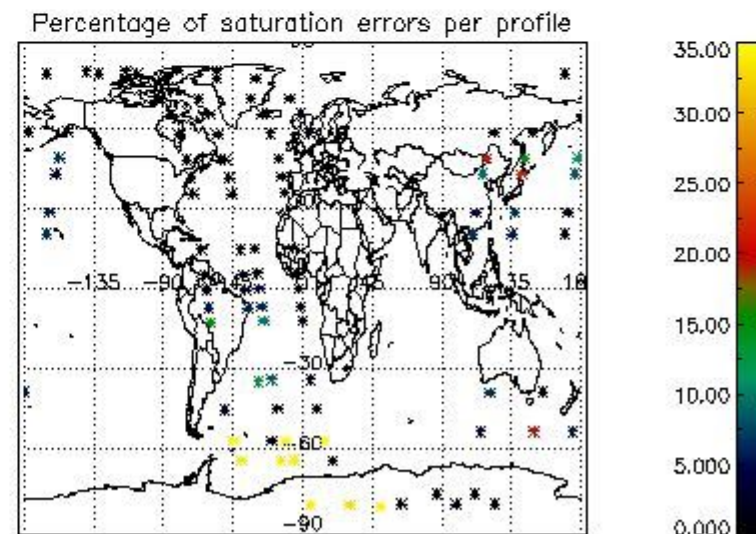
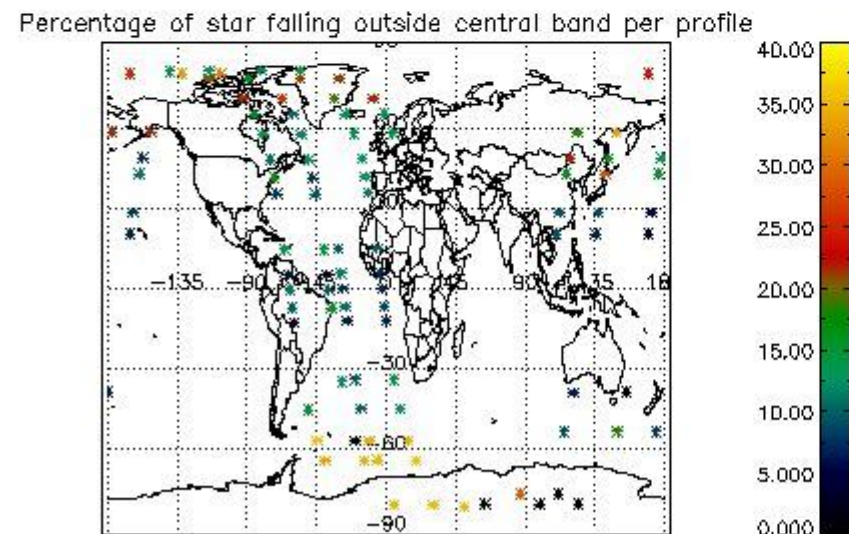
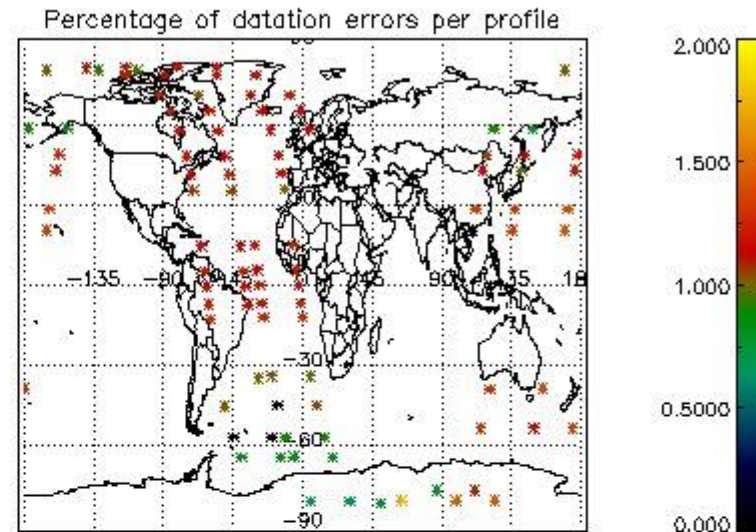
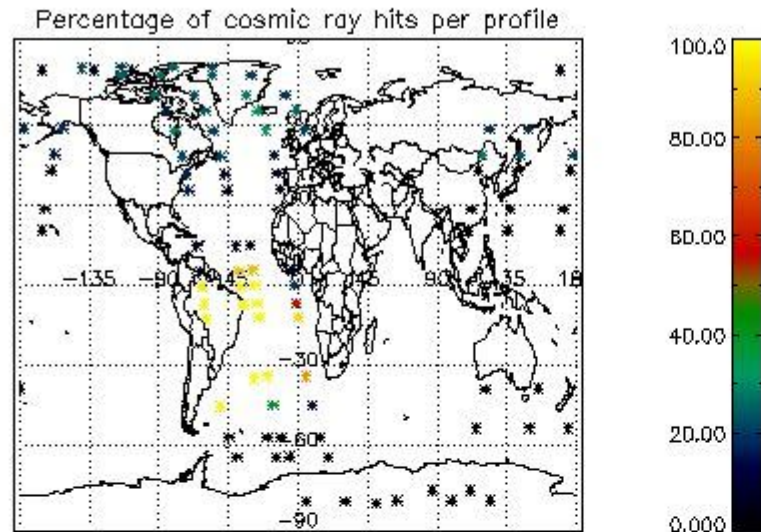
At least one measurement with demodulation flag set:	61.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





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

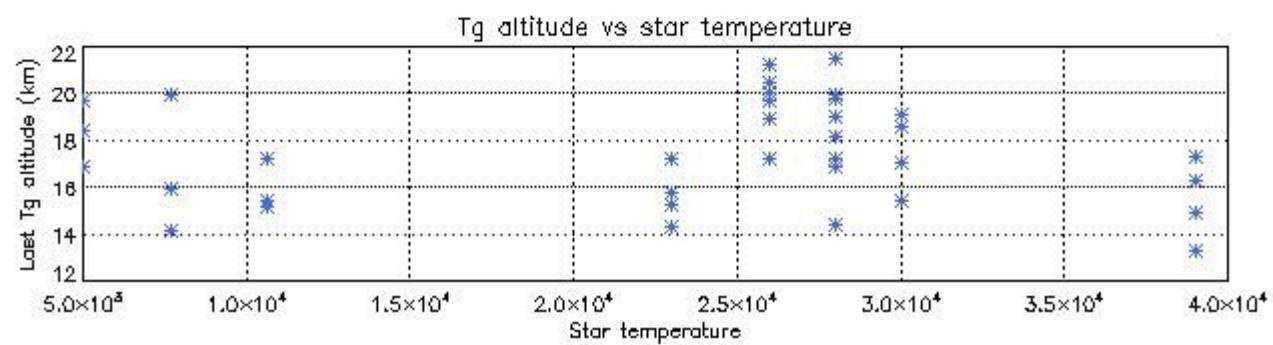
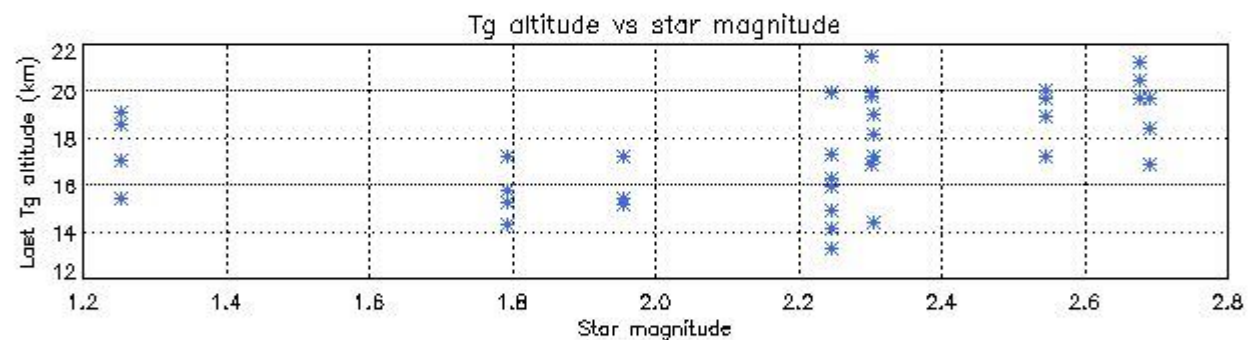
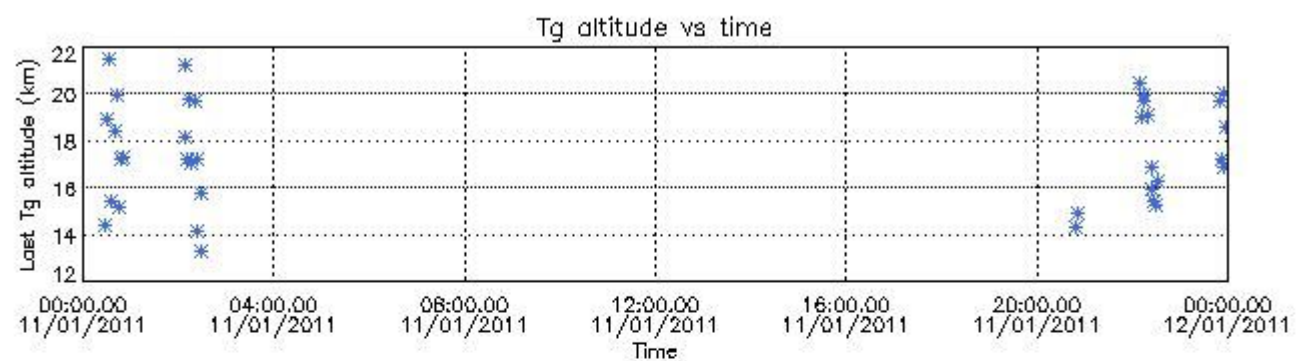
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.529	14.841	NaN
St. deviation:	2.1924	8.7945	NaN
Maximum:	21.471	36.381	NaN
Minimum:	13.320	3.8239	NaN
Number of data:	36.000	33.000	NaN

### 6.2 Plot for DARK limb products

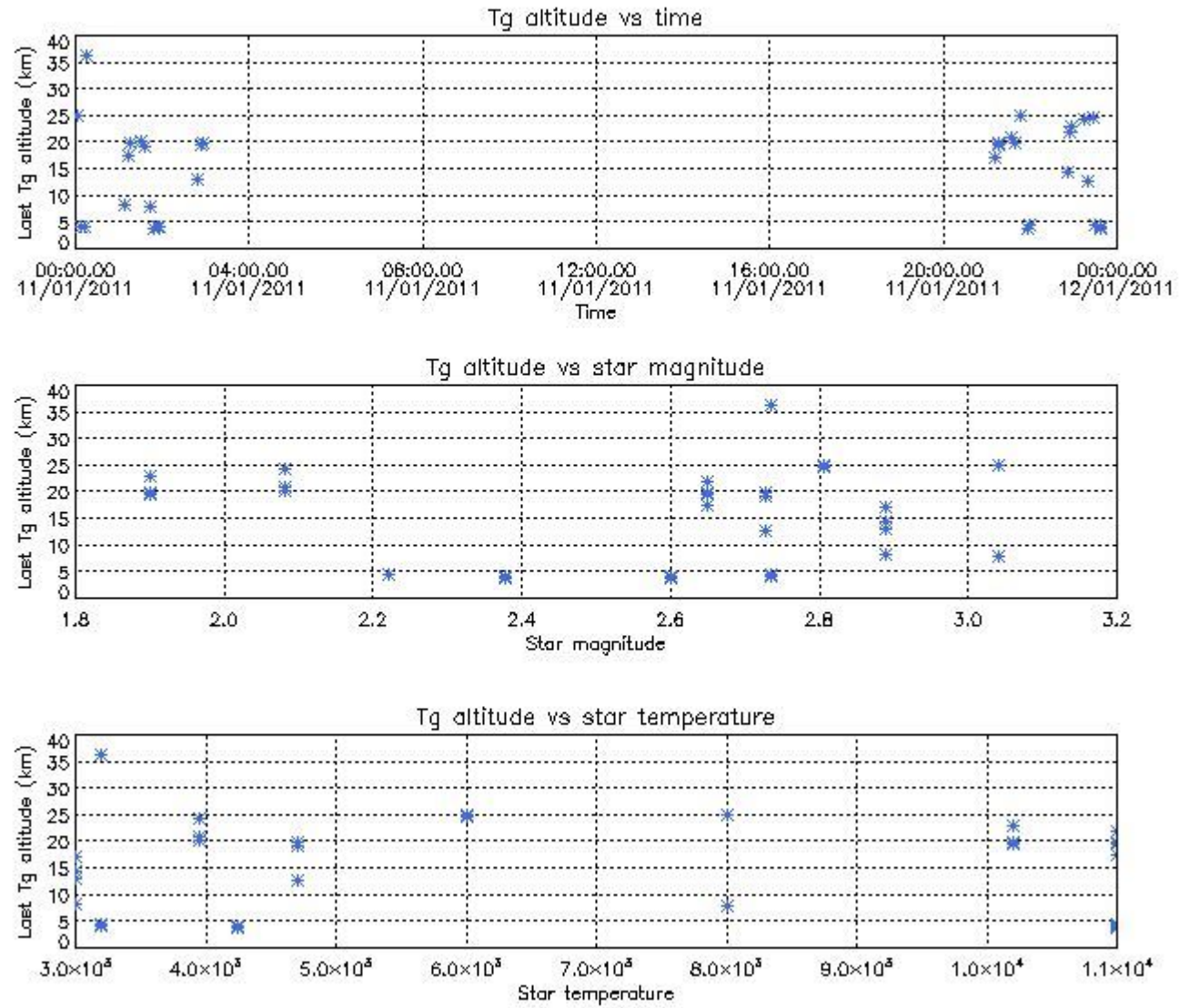


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

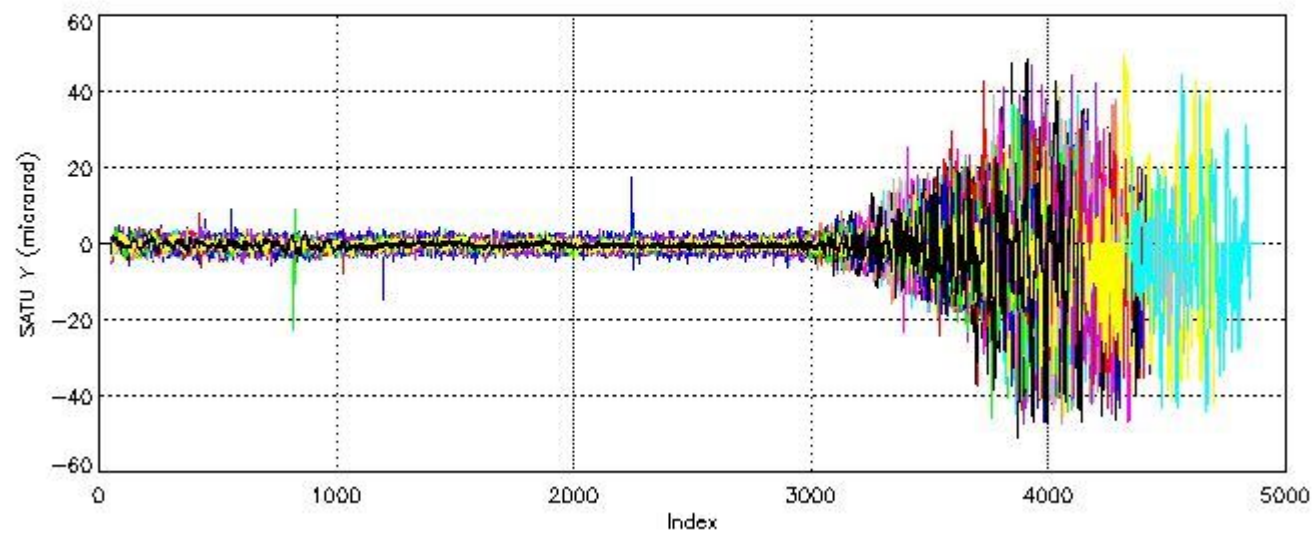
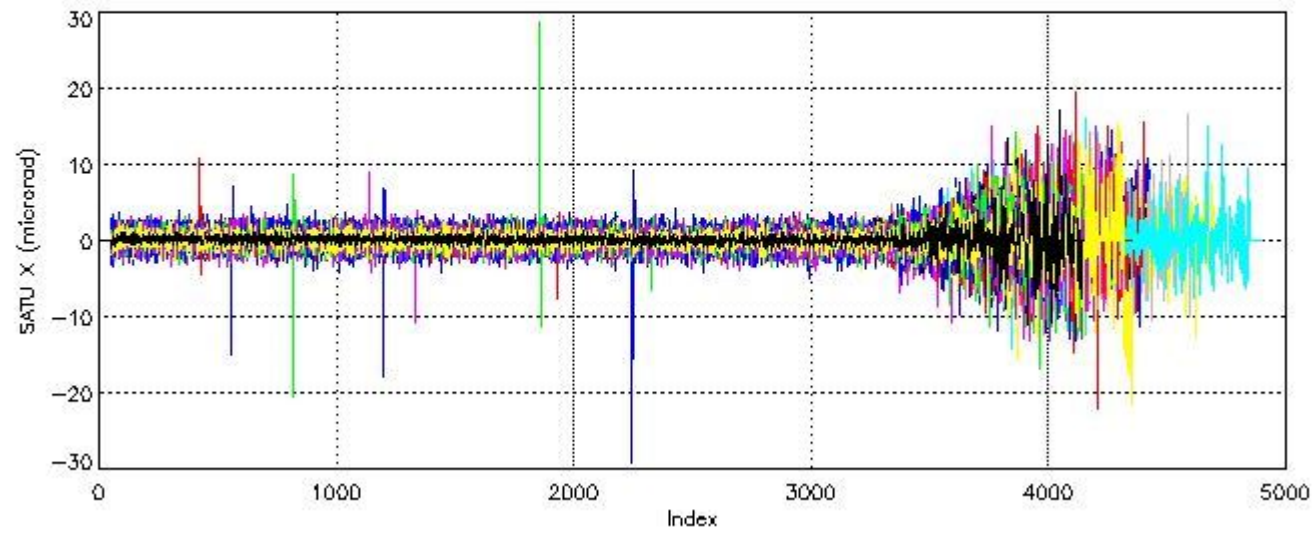


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16440	-0.35576	0.12147	-0.34076
St. deviation:	0.75528	1.1615	0.68351	0.99505
Maximum:	10.700	9.2000	5.5000	5.9000
Minimum:	-20.600	-22.700	-5.2000	-6.2000



Number of data:	36250.	36250.	30400.	30400.
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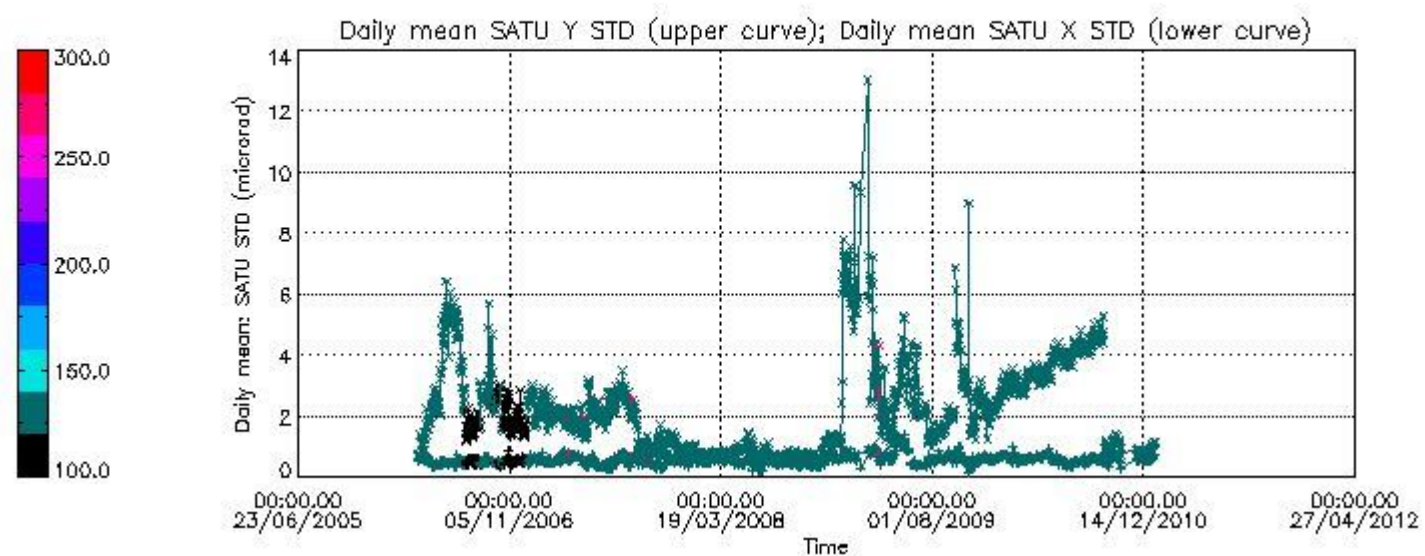
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

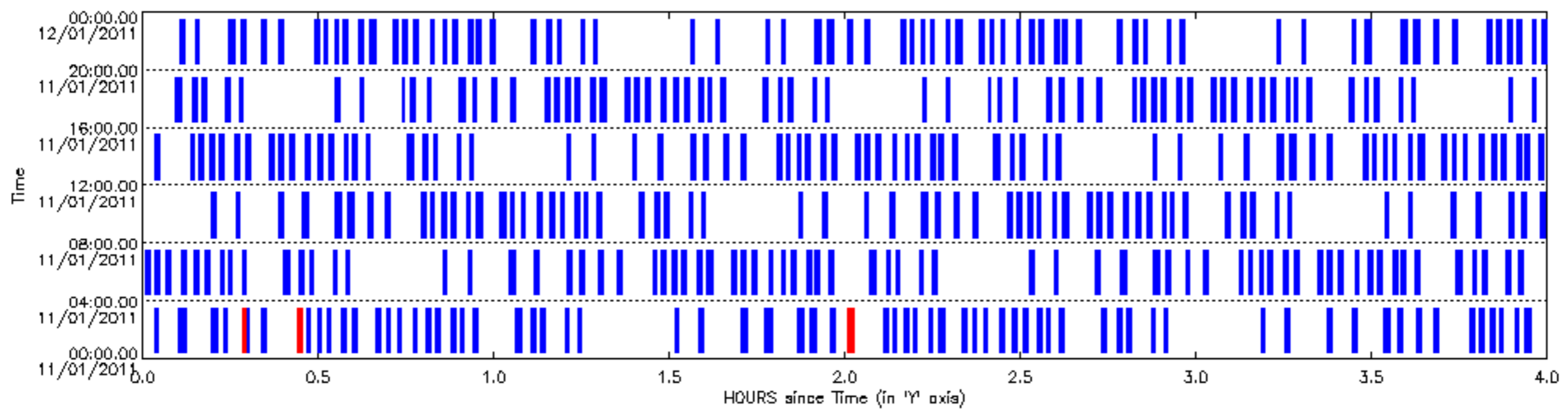
Lower curve: STD of SATU X axis

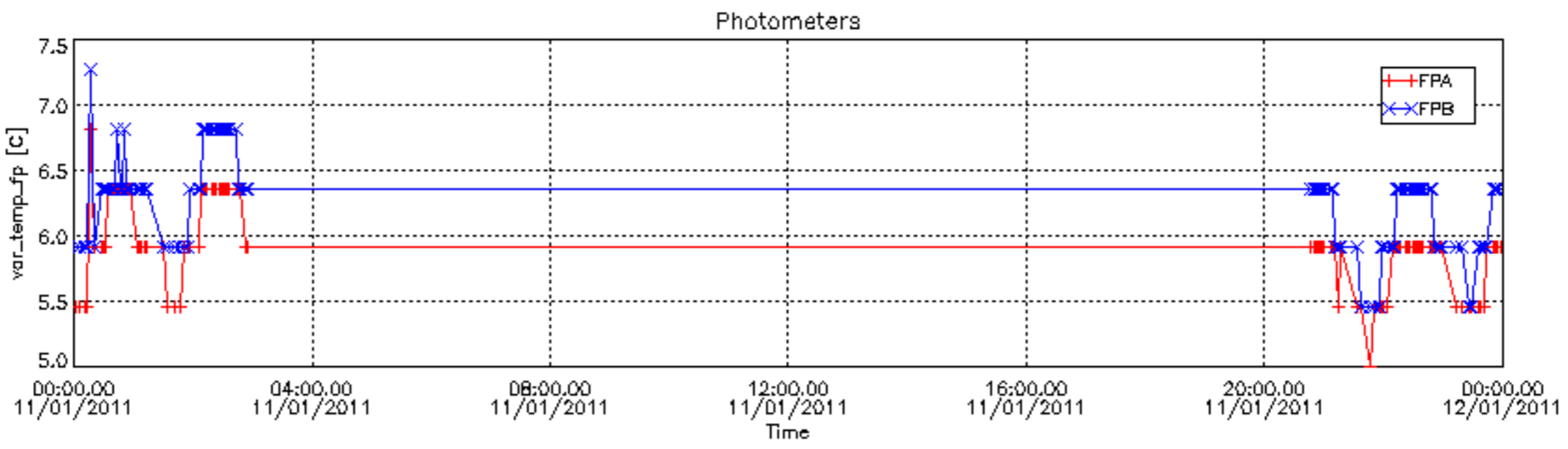
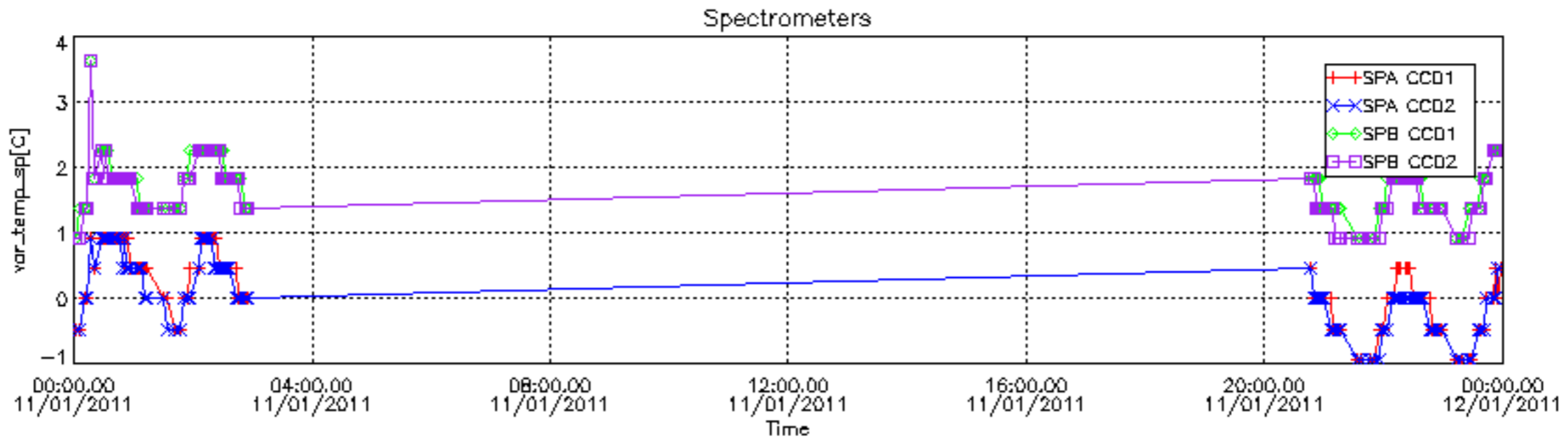


### 8. Auxiliary Data Files used for the production reported in section 2.4

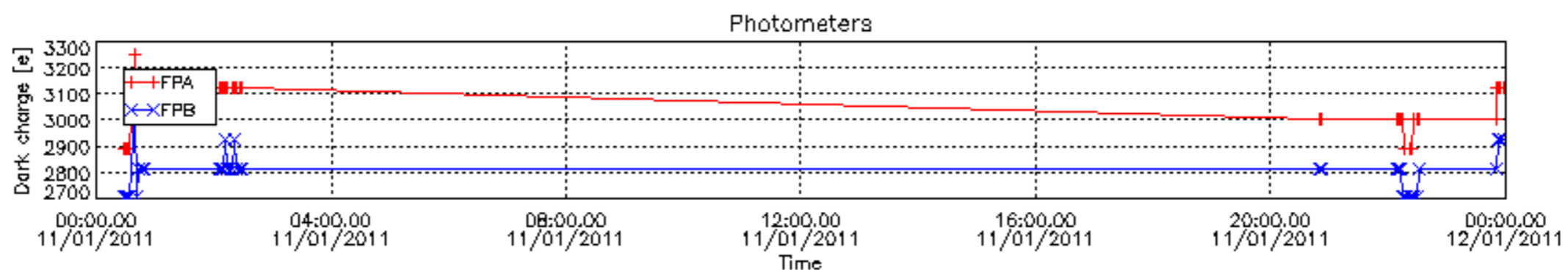
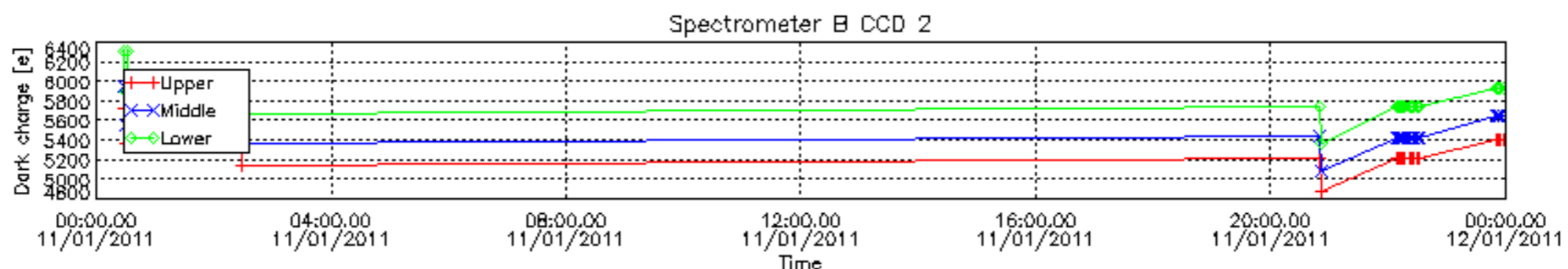
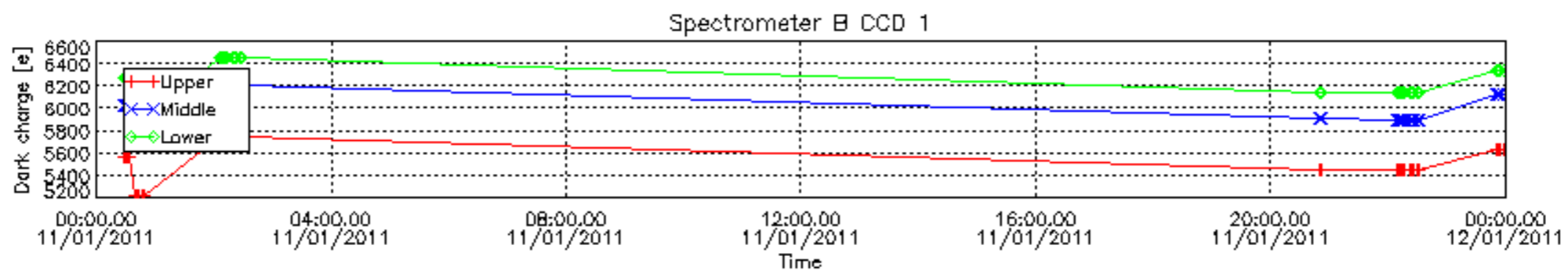
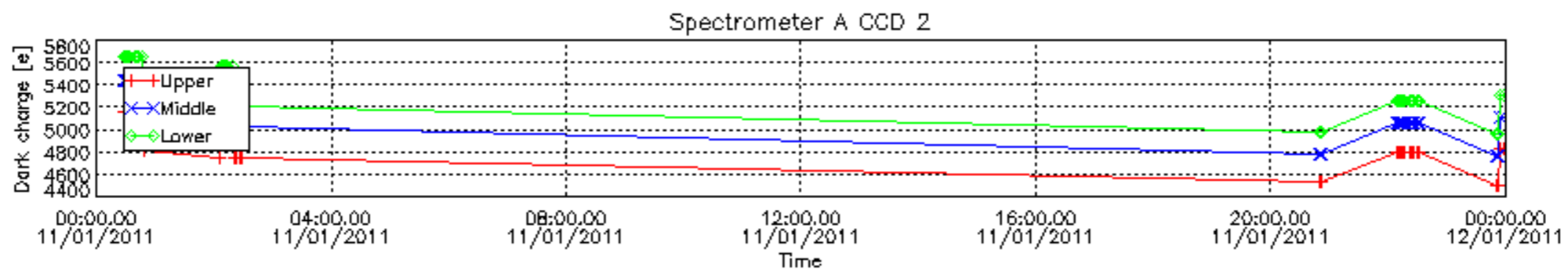
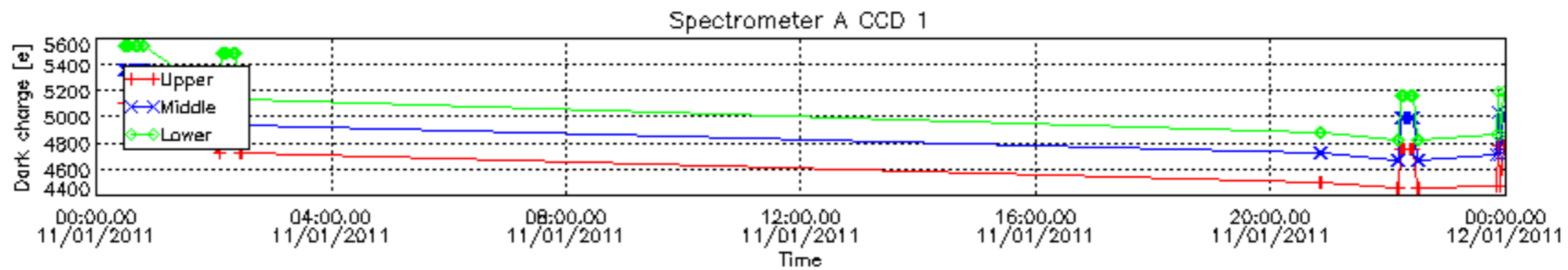
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

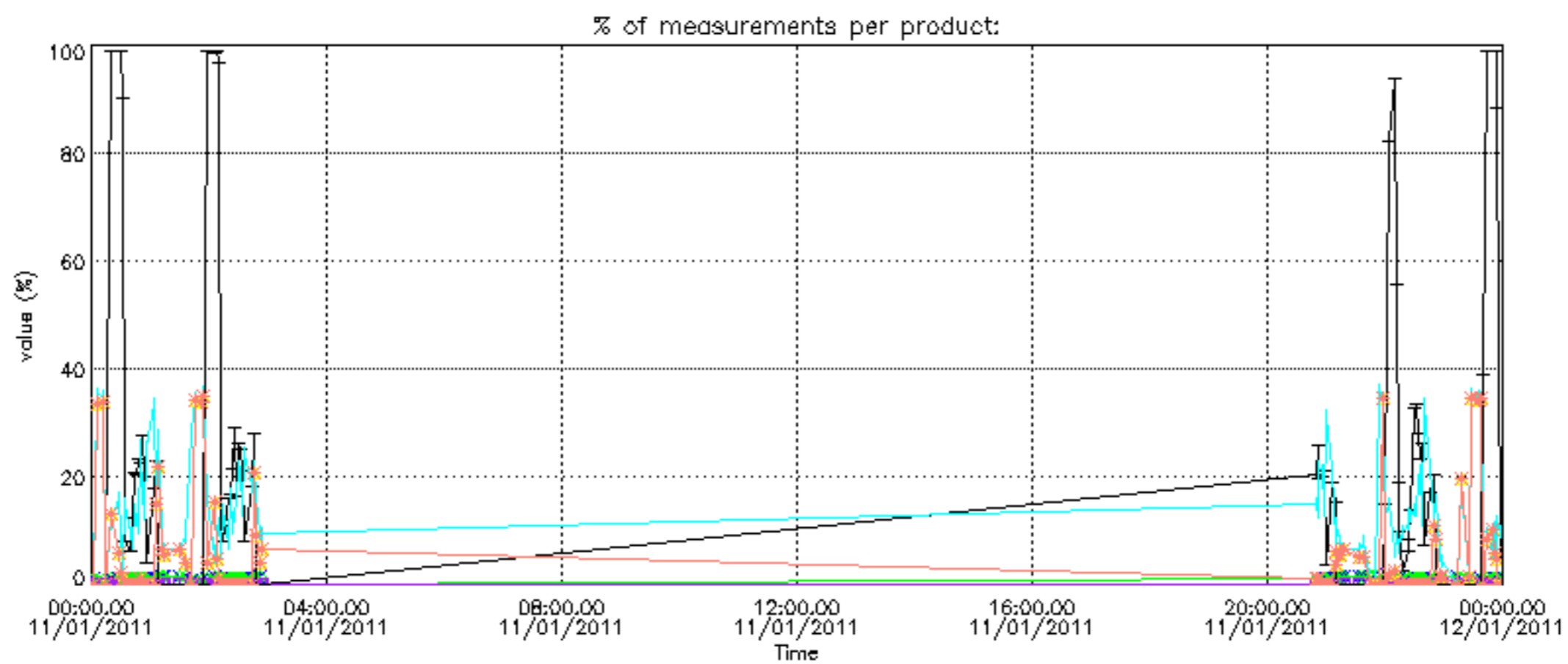
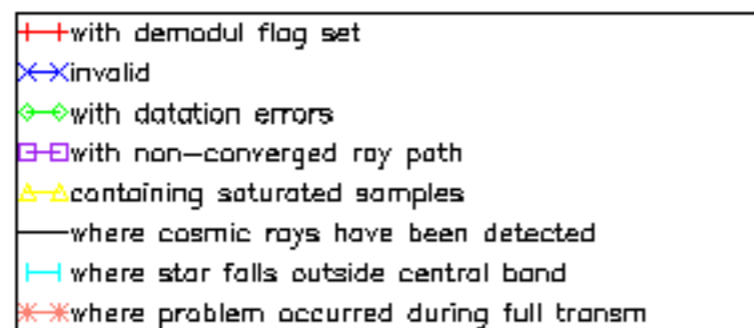
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-JAN-2011 00:01:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101227_083101_20101226_000000_20500101_000000	1	11-JAN-2011 00:01:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110111_101345_20110110_000000_20500101_000000	51	11-JAN-2011 20:46:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	11-JAN-2011 00:01:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JAN-2011 00:01:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-JAN-2011 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20110110_054114_20110110_210000_20110111_090000	1	11-JAN-2011 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20110111_054114_20110111_150000_20110112_030000	51	11-JAN-2011 20:46:20
ECMWF_FILE	AUX_ECF_AXNECM20110111_054114_20110111_210000_20110112_090000	69	11-JAN-2011 22:00:24
OPTIONAL_ECMWF_FILE	MISSING	1	11-JAN-2011 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110110_223413_000054193098_00216_46351_2304.N1	1	11-JAN-2011 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_001510_000057383098_00217_46352_2305.N1	5	11-JAN-2011 00:17:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_015048_000041443098_00218_46353_2306.N1	31	11-JAN-2011 01:57:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_204230_000041443098_00230_46365_2309.N1	51	11-JAN-2011 20:46:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_215653_000057383098_00230_46365_2310.N1	69	11-JAN-2011 22:00:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110111_233750_000057383098_00231_46366_2311.N1	97	11-JAN-2011 23:43:43



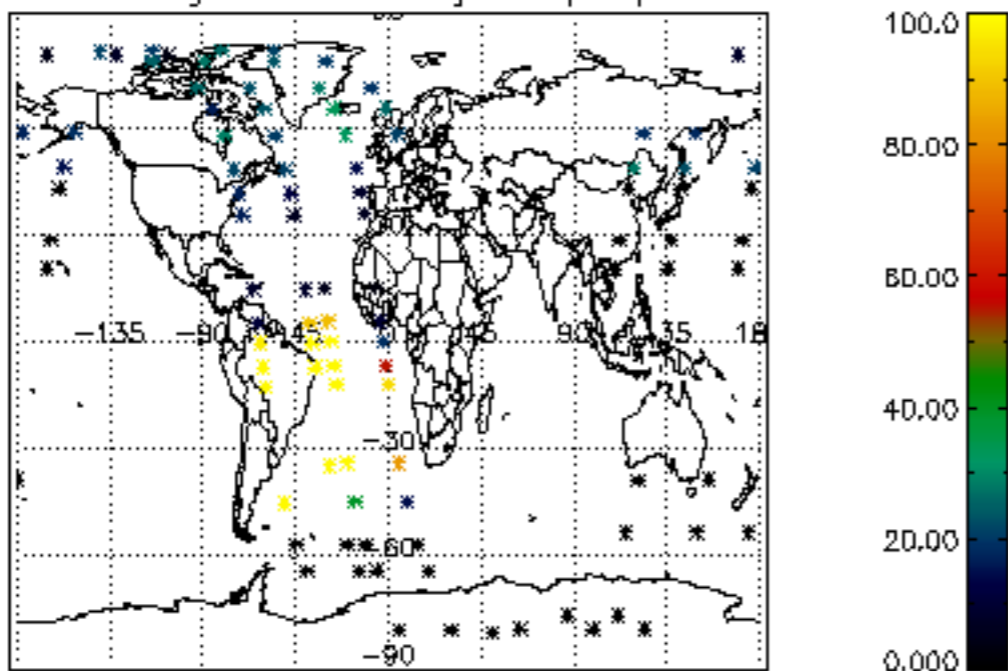




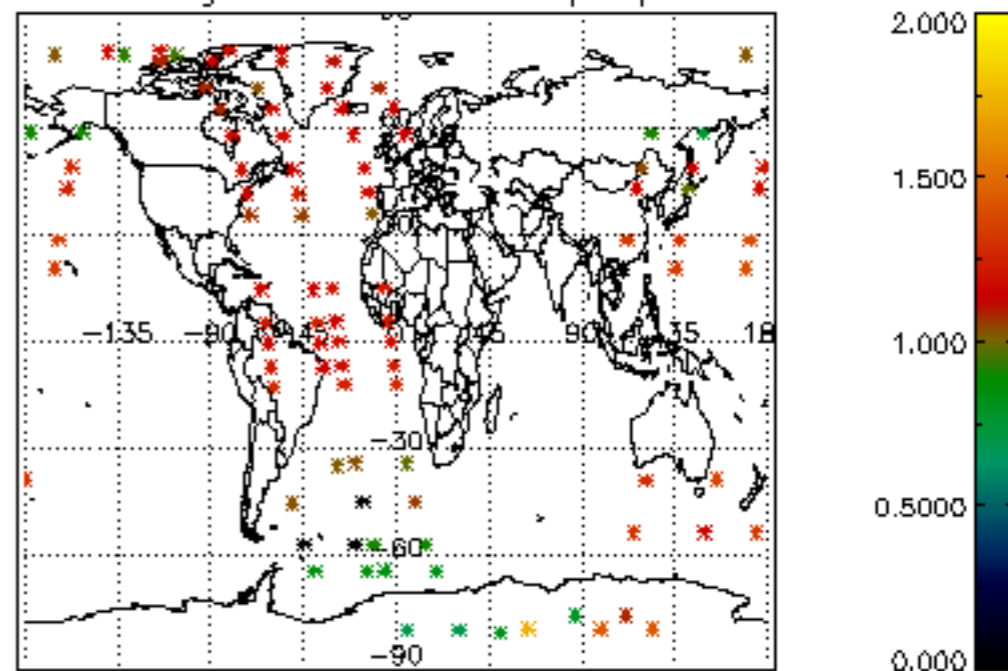




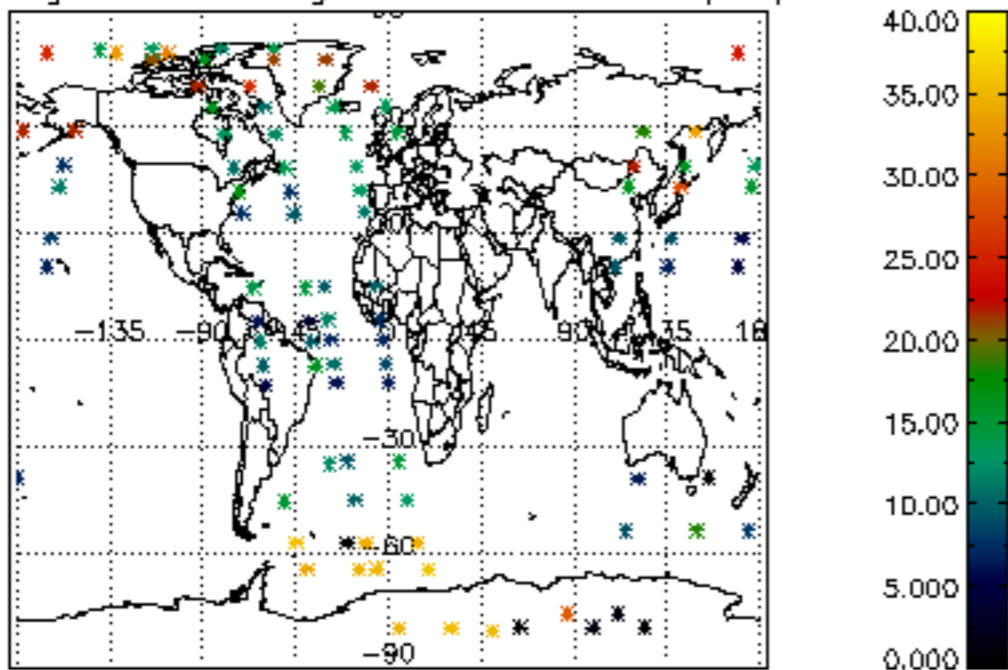
Percentage of cosmic ray hits per profile



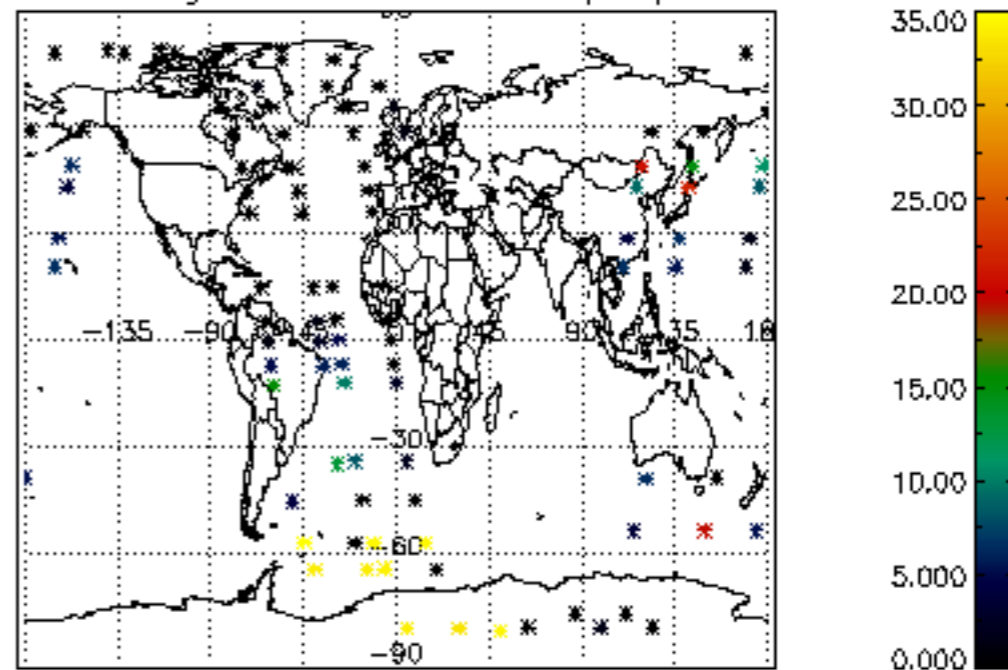
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

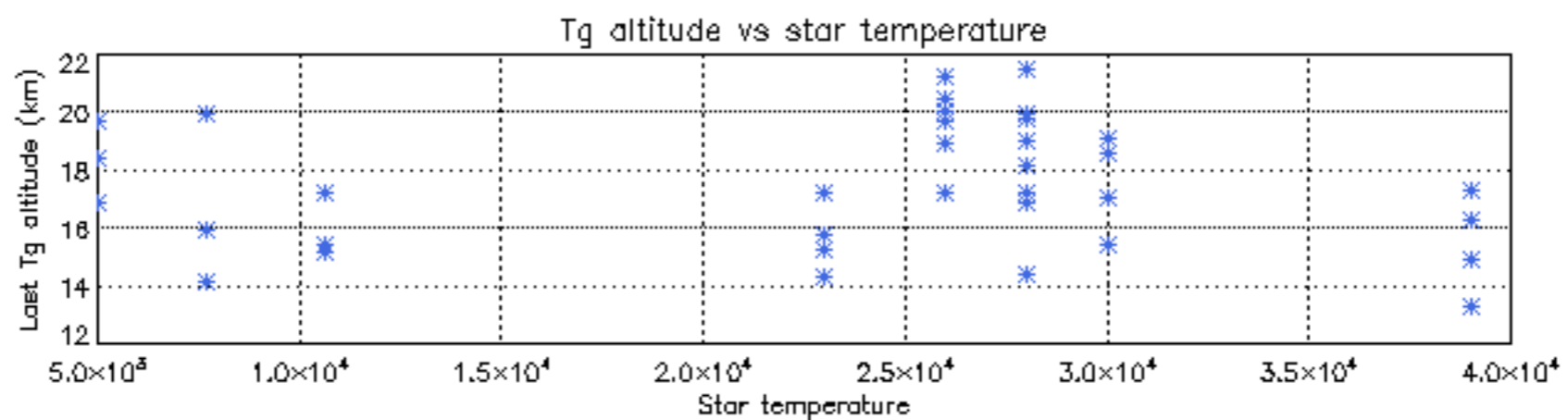
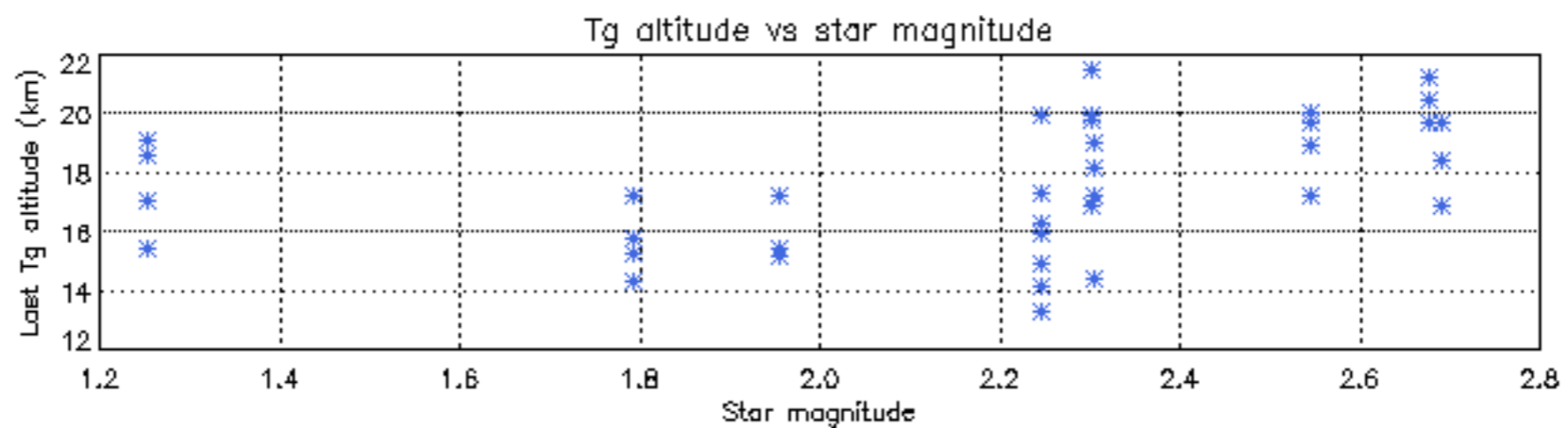
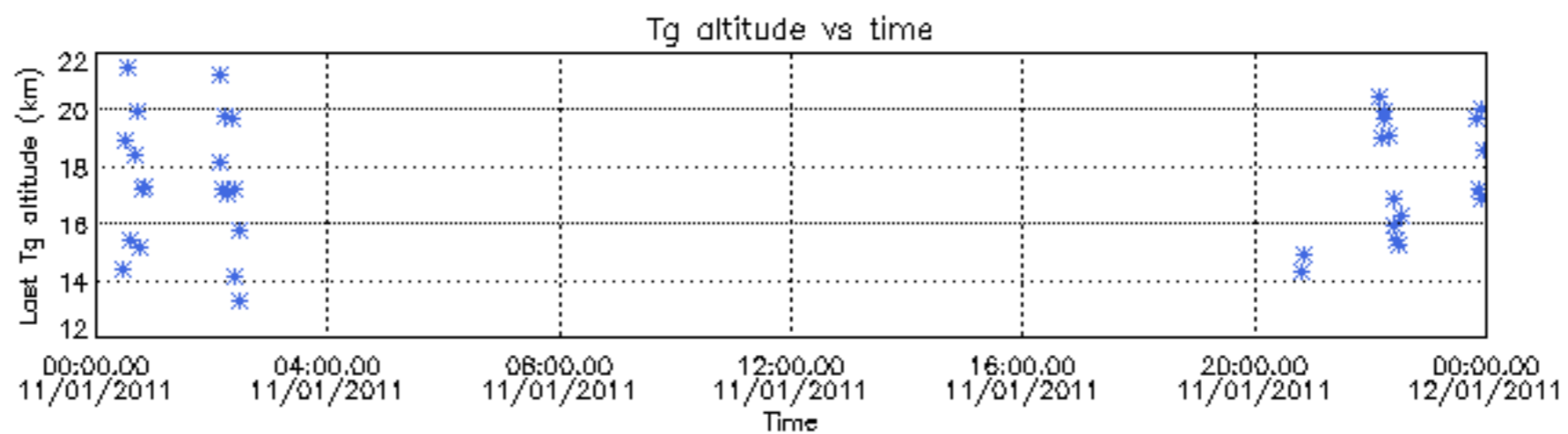


Percentage of saturation errors per profile

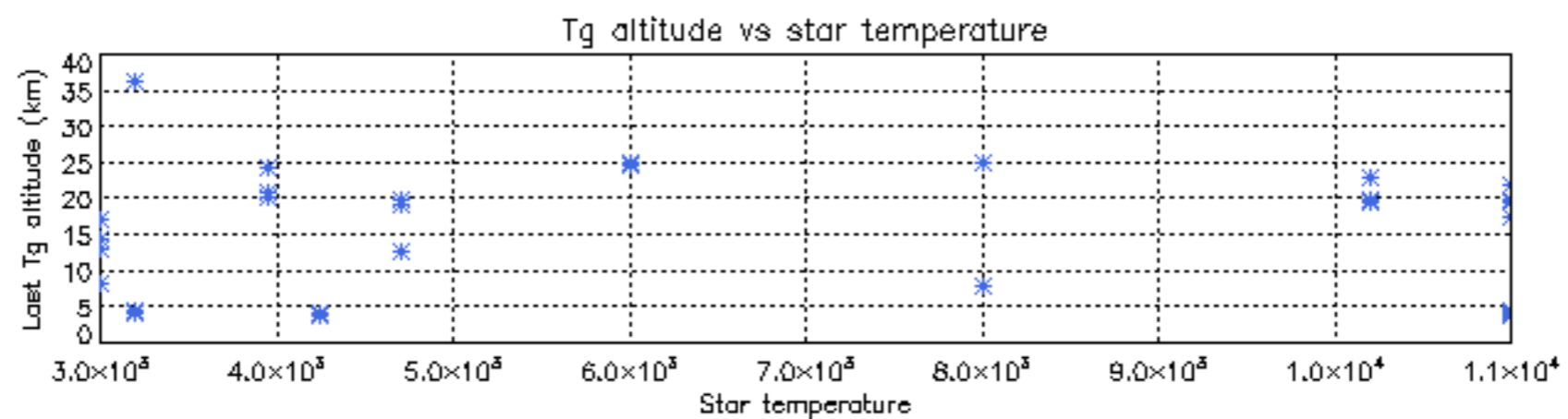
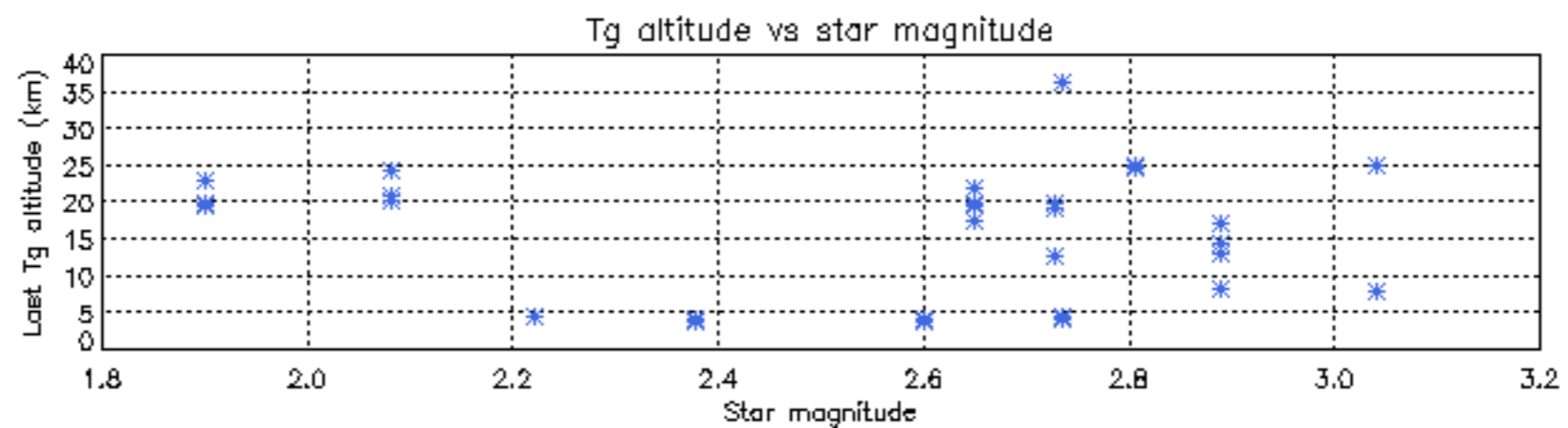
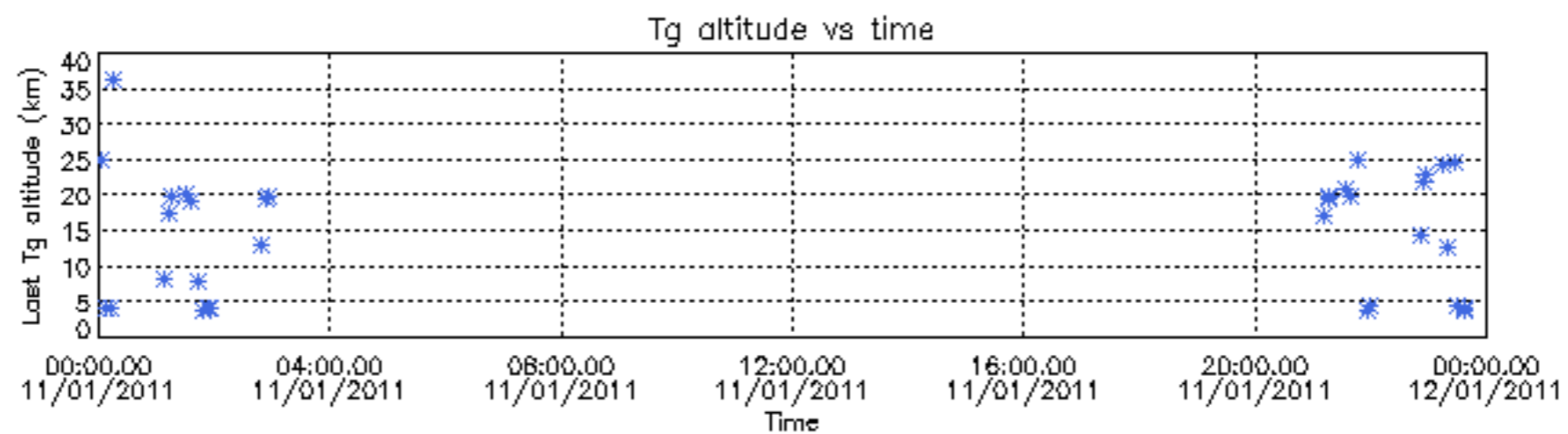


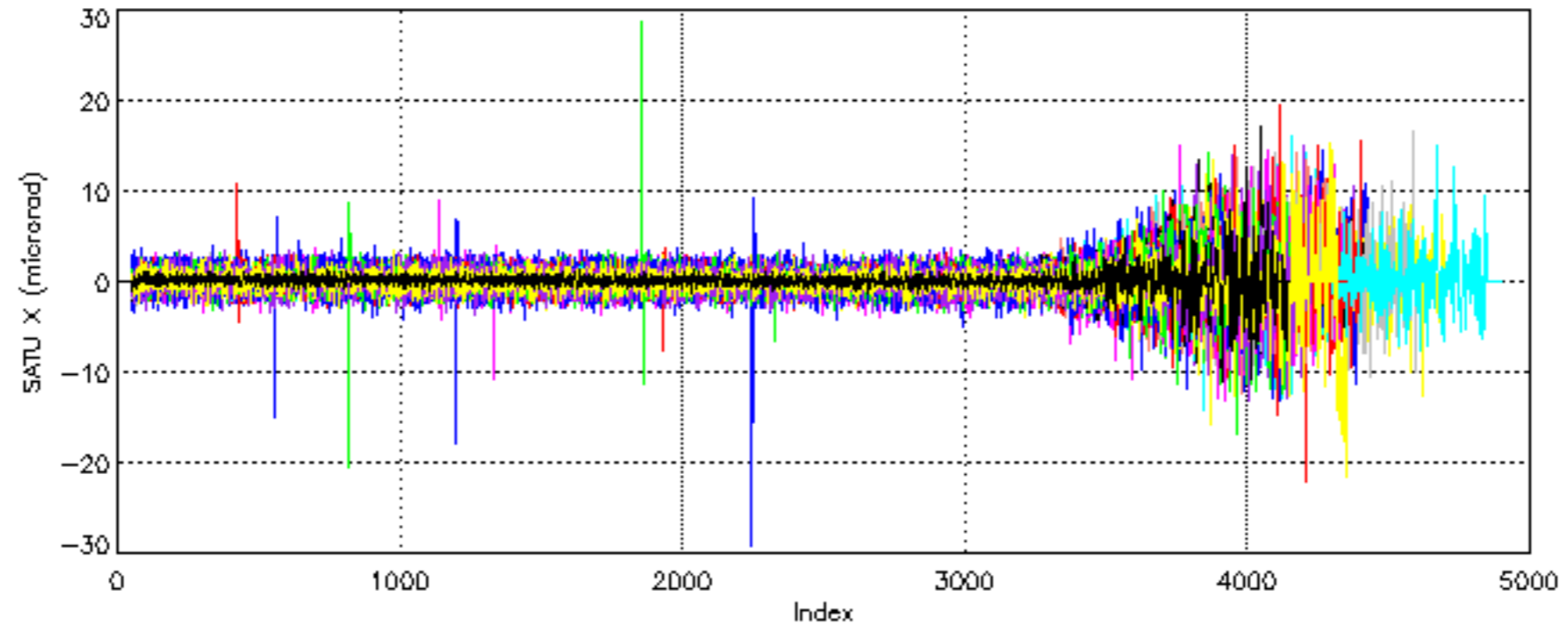


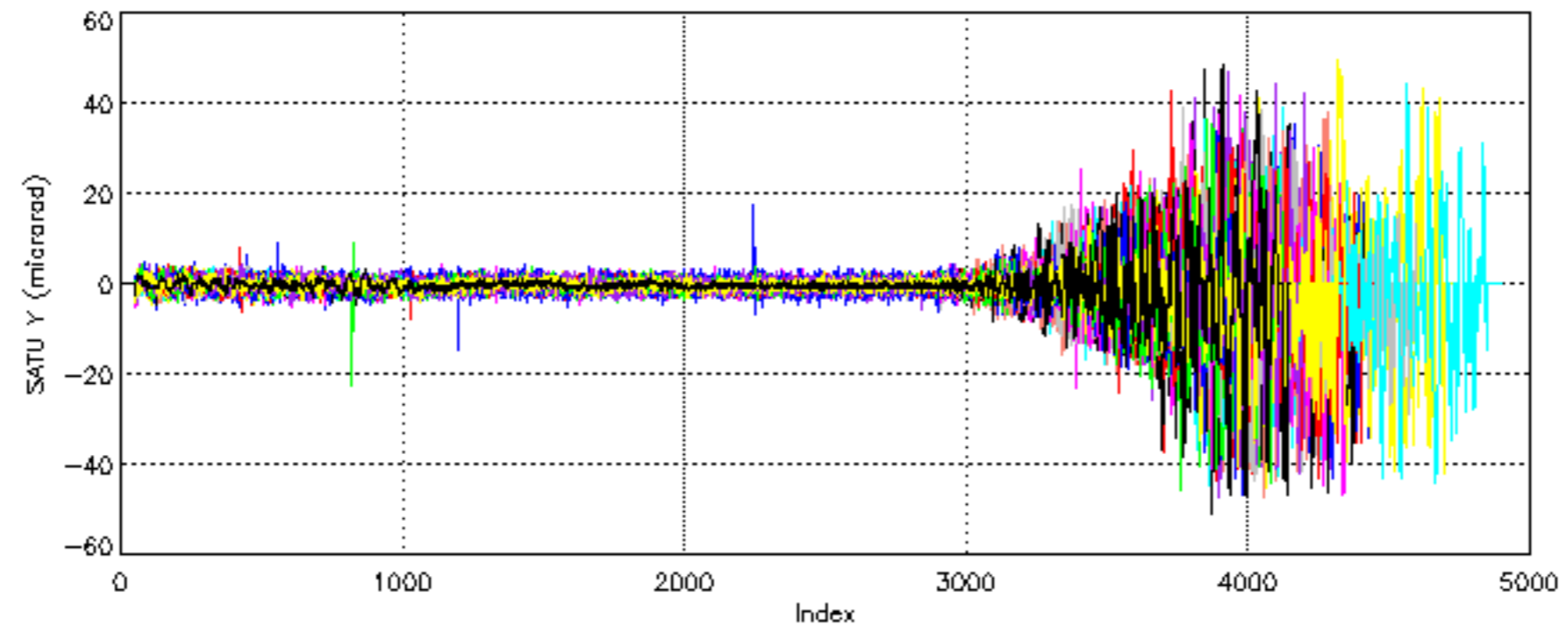
Tangent altitude at which the star is lost



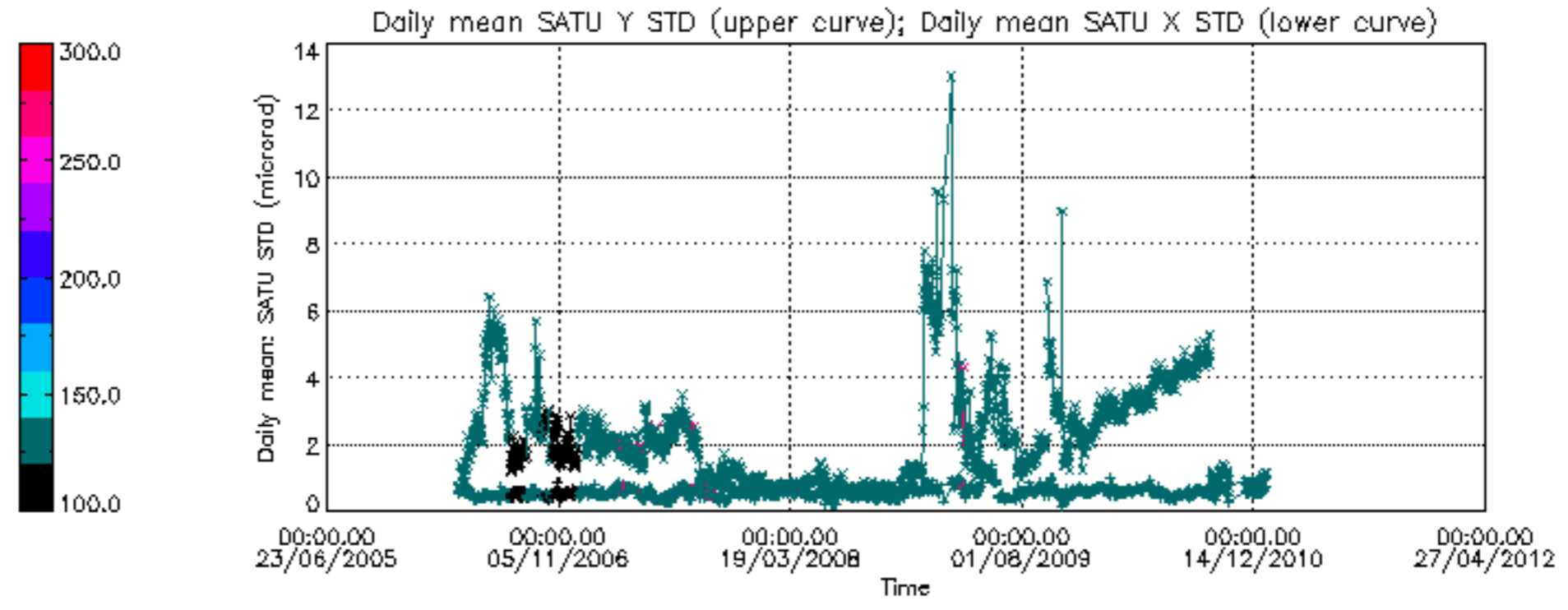
Tangent altitude at which the star is lost











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 4; 102.2; 01-JAN-2011 01:38:14; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;46210  
 5; 211.5; 01-JAN-2011 01:40:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46210  
 6; 470.5; 01-JAN-2011 01:44:23; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46210  
 7; 623.9; 01-JAN-2011 01:46:56; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;46210  
 8; 738.0; 01-JAN-2011 01:48:50; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46210  
 9; 908.3; 01-JAN-2011 01:51:41; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;46210  
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 13; 1423.0; 01-JAN-2011 02:00:15; Dark ; 45.0; 179; 240mi2CMa ; 3.03; 24000;occ; 90; 0;46210  
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 17; 2019.8; 01-JAN-2011 02:10:12; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;46210  
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 21; 2677.4; 01-JAN-2011 02:21:10; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;46210  
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 13; 103.9; 01-JAN-2011 04:58:44; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46212  
 14; 213.3; 01-JAN-2011 05:00:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46212  
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16; 625.1; 01-JAN-2011 05:07:26; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46212
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28; 2312.0; 01-JAN-2011 05:35:32; Bright; 60.0; 151; 13Mu Gem ; 2.89; 3000;occ; 120; 0;46212
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30; 2677.3; 01-JAN-2011 05:41:38; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;46212
31; 3671.7; 01-JAN-2011 05:58:12; Bright; 11.5; 60; 7Bet UMi ; 2.08; 3950;occ; 23; 0;46212
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 2; 1045.1; 01-JAN-2011 20:16:32; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46221
 3; 1167.5; 01-JAN-2011 20:18:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46221
 4; 1333.8; 01-JAN-2011 20:21:21; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;46221
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 6; 1571.8; 01-JAN-2011 20:25:19; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;46221
 7; 1720.8; 01-JAN-2011 20:27:48; Dark ; 44.0; 56; 53Kap Ori ; 2.07; 30000;occ; 88; 0;46221
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10; 2210.9; 01-JAN-2011 20:35:58; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;46221
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13; 2676.5; 01-JAN-2011 20:43:43; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;46221
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15; 3884.8; 01-JAN-2011 21:03:52; Bright; 64.0; 32; 77Eps UMa ; 1.76; 11000;occ; 128; 0;46221
16; 4084.4; 01-JAN-2011 21:07:11; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;46221
17; 4331.4; 01-JAN-2011 21:11:18; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;46221
18; 4554.5; 01-JAN-2011 21:15:01; Bright; 63.0; 83; ; 2.38; 11000;occ; 126; 0;46221
19; 4752.6; 01-JAN-2011 21:18:19; Bright; 54.5; 3; 16Alp Boo ; -0.05; 4250;occ; 109; 0;46221
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 11; 4331.6; 02-JAN-2011 13:53:38; Bright; 62.5; 180; 27Gam Boo ; 3.04; 8000;occ; 125; 0;46231  
 12; 4556.6; 02-JAN-2011 13:57:23; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46231  
 13; 4757.0; 02-JAN-2011 14:00:44; Bright; 55.0; 3; 16Alp Boo ; -0.05; 4250;occ; 110; 0;46231  
 14; 4874.8; 02-JAN-2011 14:02:42; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;46231  
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 16; 5343.0; 02-JAN-2011 14:10:30; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46231  
 17; 5757.9; 02-JAN-2011 14:17:25; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;46231  
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 19; 6023.8; 02-JAN-2011 14:21:51; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46232  
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 21; 6245.9; 02-JAN-2011 14:25:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46232  
 22; 6504.0; 02-JAN-2011 14:29:51; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46232  
 23; 6649.7; 02-JAN-2011 14:32:16; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;46232  
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 27; 7185.5; 02-JAN-2011 14:41:12; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46232  
 28; 7350.9; 02-JAN-2011 14:43:58; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46232

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 16; 5181.6; 02-JAN-2011 15:48:02; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46232  
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 18; 5758.7; 02-JAN-2011 15:57:39; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;46232  
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 22; 6246.9; 02-JAN-2011 16:05:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46233  
 23; 6505.0; 02-JAN-2011 16:10:06; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46233  
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 25; 6764.5; 02-JAN-2011 16:14:25; Dark ; 48.5; 46; Del Vel ; 1.95; 10600;occ; 97; 0;46233  
 26; 6934.3; 02-JAN-2011 16:17:15; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46233  
 27; 7065.1; 02-JAN-2011 16:19:26; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46233  
 28; 7185.9; 02-JAN-2011 16:21:27; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46233

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 4; 13.2; 03-JAN-2011 00:23:18; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;46238  
 5; 125.0; 03-JAN-2011 00:25:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;46238  
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 8; 638.7; 03-JAN-2011 00:33:44; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;46238  
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 13; 1338.2; 03-JAN-2011 00:45:23; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;46238  
 14; 1429.0; 03-JAN-2011 00:46:54; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;46238  
 15; 1573.7; 03-JAN-2011 00:49:19; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;46238  
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 17; 2205.4; 03-JAN-2011 00:59:50; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;46238  
 18; 2304.3; 03-JAN-2011 01:01:29; Bright; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;46238  
 19; 2545.0; 03-JAN-2011 01:05:30; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;46238  
 20; 2675.3; 03-JAN-2011 01:07:40; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;46238  
 21; 3669.0; 03-JAN-2011 01:24:14; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;46238  
 22; 3877.4; 03-JAN-2011 01:27:42; Bright; 49.0; 32; 77Eps UMa ; 1.76; 11000;occ; 98; 0;46238  
 23; 4080.5; 03-JAN-2011 01:31:05; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;46238  
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 25; 4558.0; 03-JAN-2011 01:39:03; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;46238  
 26; 4760.2; 03-JAN-2011 01:42:25; Bright; 56.5; 3; 16Alp Boo ; -0.05; 4250;occ; 113; 0;46238  
 27; 4877.0; 03-JAN-2011 01:44:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46238  
 28; 5184.4; 03-JAN-2011 01:49:29; Bright; 32.5; 104; 27Bet Lib ; 2.61; 13100;occ; 65; 0;46238

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 5; 13.8; 03-JAN-2011 02:03:33; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46239  
 6; 125.8; 03-JAN-2011 02:05:25; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46239  
 7; 238.4; 03-JAN-2011 02:07:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46239  
 8; 496.2; 03-JAN-2011 02:11:35; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46239  
 9; 639.3; 03-JAN-2011 02:13:58; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46239  
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 13; 1173.8; 03-JAN-2011 02:22:53; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46239  
 14; 1338.7; 03-JAN-2011 02:25:38; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46239  
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 17; 2018.5; 03-JAN-2011 02:36:57; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0;46239  
 18; 2205.5; 03-JAN-2011 02:40:04; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;46239  
 19; 2304.1; 03-JAN-2011 02:41:43; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46239  
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 3; -1933.7; 03-JAN-2011 03:11:19; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;46239  
 4; -1682.3; 03-JAN-2011 03:15:31; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;46239  
 5; -1455.8; 03-JAN-2011 03:19:17; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;46239  
 6; -1253.3; 03-JAN-2011 03:22:40; Bright; 56.5; 3; 16Alp Boo ; -0.05; 4250;occ; 113; 0;46239  
 7; -1136.8; 03-JAN-2011 03:24:36; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46239  
 8; -829.1; 03-JAN-2011 03:29:44; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46239  
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 12; 14.6; 03-JAN-2011 03:43:48; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46240  
 13; 126.9; 03-JAN-2011 03:45:40; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;46240  
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17; 754.1; 03-JAN-2011 03:56:07; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;46240  
 18; 923.7; 03-JAN-2011 03:58:57; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46240  
 19; 1054.3; 03-JAN-2011 04:01:07; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46240  
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 21; 1339.1; 03-JAN-2011 04:05:52; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;46240  
 22; 1429.7; 03-JAN-2011 04:07:23; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;46240  
 23; 1574.2; 03-JAN-2011 04:09:47; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;46240  
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 27; 2544.6; 03-JAN-2011 06:06:12; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46241  
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 47; 8688.9; 04-JAN-2011 03:51:24; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46254

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1; -2335.0; 04-JAN-2011 05:48:22; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 24;46255  
 2; -2144.1; 04-JAN-2011 05:51:33; Bright; 30.0; 32; 77Eps UMa ; 1.76; 11000;occ; 60; 0;46255  
 3; -2079.8; 04-JAN-2011 05:52:38; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;46255  
 4; -1937.5; 04-JAN-2011 05:55:00; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46255  
 5; -1682.0; 04-JAN-2011 05:59:15; Bright; 59.5; 180; 27Gam Boo ; 3.04; 8000;occ; 119; 0;46255  
 6; -1452.3; 04-JAN-2011 06:03:05; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46255  
 7; -1131.6; 04-JAN-2011 06:08:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46255  
 8; -820.9; 04-JAN-2011 06:13:36; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46255  
 9; -655.5; 04-JAN-2011 06:16:22; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46255  
 10; -237.8; 04-JAN-2011 06:23:20; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;46255  
 11; -77.9; 04-JAN-2011 06:26:00; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46255  
 12; 24.0; 04-JAN-2011 06:27:41; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46256  
 13; 140.2; 04-JAN-2011 06:29:38; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46256  
 14; 254.3; 04-JAN-2011 06:31:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46256  
 15; 511.2; 04-JAN-2011 06:35:49; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46256  
 16; 648.3; 04-JAN-2011 06:38:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46256  
 17; 762.4; 04-JAN-2011 06:40:00; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46256  
 18; 931.6; 04-JAN-2011 06:42:49; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;46256  
 19; 1061.8; 04-JAN-2011 06:44:59; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46256  
 20; 1179.7; 04-JAN-2011 06:46:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;46256  
 21; 1343.1; 04-JAN-2011 06:49:40; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;46256  
 22; 1433.2; 04-JAN-2011 06:51:11; Dark ; 41.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 82; 0;46256  
 23; 1576.3; 04-JAN-2011 06:53:34; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;46256  
 24; 2018.5; 04-JAN-2011 07:00:56; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;46256  
 25; 2201.0; 04-JAN-2011 07:03:58; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;46256  
 26; 2300.1; 04-JAN-2011 07:05:37; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;46256  
 27; 2541.6; 04-JAN-2011 07:09:39; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46256  
 28; 2674.5; 04-JAN-2011 07:11:52; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;46256  
 29; 3666.8; 04-JAN-2011 07:28:24; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46256

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1; 935.1; 04-JAN-2011 20:04:45; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;46264  
 2; 1065.4; 04-JAN-2011 20:06:55; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;46264  
 3; 1182.3; 04-JAN-2011 20:08:52; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;46264  
 4; 1345.0; 04-JAN-2011 20:11:35; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;46264



5; 1434.7; 04-JAN-2011 20:13:04; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;46264  
6; 1577.2; 04-JAN-2011 20:15:27; Dark ; 48.0; 1; 9Alp CMA ;-1.44; 11000;occ; 96; 0;46264  
7; 2018.0; 04-JAN-2011 20:22:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;46264  
8; 2198.5; 04-JAN-2011 20:25:48; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;46264  
9; 2298.1; 04-JAN-2011 20:27:28; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;46264  
10; 2540.1; 04-JAN-2011 20:31:30; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;46264  
11; 2672.8; 04-JAN-2011 20:33:42; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46264  
12; 3665.9; 04-JAN-2011 20:50:15; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;46264  
13; 3930.7; 04-JAN-2011 20:54:40; Bright; 48.0; 55; 79Zet UMa ; 2.06; 10200;occ; 96; 0;46264  
14; 4074.3; 04-JAN-2011 20:57:04; Bright; 44.0; 39; 85Eta UMa ; 1.85; 24000;occ; 88; 0;46264  
15; 4332.3; 04-JAN-2011 21:01:22; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;46264  
16; 4563.7; 04-JAN-2011 21:05:13; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;46264  
17; 4885.5; 04-JAN-2011 21:10:35; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46264  
18; 5197.6; 04-JAN-2011 21:15:47; Bright; 0.5; 104; 27Bet Lib ; 2.61; 13100;occ; 1; 0;46264

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1; -816.4; 04-JAN-2011 21:15:47; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;46264  
2; -649.4; 04-JAN-2011 21:18:34; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46264  
3; -230.7; 04-JAN-2011 21:25:33; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;46264  
4; -71.9; 04-JAN-2011 21:28:12; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46264  
5; 29.4; 04-JAN-2011 21:29:53; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46265  
6; 147.6; 04-JAN-2011 21:31:51; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46265  
7; 262.7; 04-JAN-2011 21:33:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46265  
8; 518.7; 04-JAN-2011 21:38:02; Dark ; 56.0; 113; Mu Vel ; 2.69; 5000;occ; 112; 0;46265  
9; 652.9; 04-JAN-2011 21:40:16; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46265  
10; 766.8; 04-JAN-2011 21:42:10; Dark ; 48.0; 46; Del Vel ; 1.95; 10600;occ; 96; 0;46265  
11; 935.6; 04-JAN-2011 21:44:59; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;46265  
12; 1066.1; 04-JAN-2011 21:47:10; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46265  
13; 1182.4; 04-JAN-2011 21:49:06; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46265  
14; 1345.2; 04-JAN-2011 21:51:49; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;46265  
15; 1434.6; 04-JAN-2011 21:53:18; Dark ; 46.0; 179; 240mi2CMA ; 3.03; 24000;occ; 92; 0;46265  
16; 1577.1; 04-JAN-2011 21:55:41; Dark ; 50.5; 1; 9Alp CMA ;-1.44; 11000;occ; 101; 0;46265  
17; 2018.1; 04-JAN-2011 22:03:02; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;46265  
18; 2198.2; 04-JAN-2011 22:06:02; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;46265  
19; 2297.8; 04-JAN-2011 22:07:41; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46265  
20; 2539.8; 04-JAN-2011 22:11:43; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46265  
21; 2672.5; 04-JAN-2011 22:13:56; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46265  
22; 3665.6; 04-JAN-2011 22:30:29; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;46265  
23; 3930.5; 04-JAN-2011 22:34:54; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;46265  
24; 4074.0; 04-JAN-2011 22:37:18; Bright; 69.0; 39; 85Eta UMa ; 1.85; 24000;occ; 138; 0;46265  
25; 4332.2; 04-JAN-2011 22:41:36; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;46265  
26; 4563.9; 04-JAN-2011 22:45:27; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46265  
27; 4885.6; 04-JAN-2011 22:50:49; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;46265  
28; 5198.1; 04-JAN-2011 22:56:02; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;46265

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1; -2144.6; 04-JAN-2011 07:31:47; Bright; 27.0; 32; 77Eps UMa ; 1.76; 11000;occ; 54; 0;46256  
2; -2080.2; 04-JAN-2011 07:32:51; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;46256  
3; -1937.7; 04-JAN-2011 07:35:14; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;46256  
4; -1681.8; 04-JAN-2011 07:39:30; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;46256  
5; -1452.1; 04-JAN-2011 07:43:19; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46256  
6; -1131.2; 04-JAN-2011 07:48:40; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46256  
7; -820.6; 04-JAN-2011 07:53:51; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;46256  
8; -654.9; 04-JAN-2011 07:56:37; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46256  
9; -236.7; 04-JAN-2011 08:03:35; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;46256  
10; -77.3; 04-JAN-2011 08:06:14; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46256  
11; 24.5; 04-JAN-2011 08:07:56; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46257  
12; 141.1; 04-JAN-2011 08:09:53; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;46257  
13; 255.2; 04-JAN-2011 08:11:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46257  
14; 512.0; 04-JAN-2011 08:16:03; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46257  
15; 648.9; 04-JAN-2011 08:18:20; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46257  
16; 762.9; 04-JAN-2011 08:20:14; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;46257  
17; 931.9; 04-JAN-2011 08:23:03; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46257  
18; 1062.4; 04-JAN-2011 08:25:14; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46257  
19; 1180.1; 04-JAN-2011 08:27:11; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46257  
20; 1343.4; 04-JAN-2011 08:29:55; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;46257  
21; 1433.5; 04-JAN-2011 08:31:25; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46257  
22; 1576.4; 04-JAN-2011 08:33:48; Dark ; 49.0; 1; 9Alp CMA ;-1.44; 11000;occ; 98; 0;46257

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1; 1576.4; 04-JAN-2011 08:33:48; Dark ; 49.5; 1; 9Alp CMA ;-1.44; 11000;occ; 99; 0;46257

2; 2018.4; 04-JAN-2011 08:41:10; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46257  
3; 2200.8; 04-JAN-2011 08:44:12; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;46257  
4; 2299.8; 04-JAN-2011 08:45:51; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;46257  
5; 2541.5; 04-JAN-2011 08:49:53; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46257  
6; 2674.4; 04-JAN-2011 08:52:06; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;46257  
7; 3666.8; 04-JAN-2011 09:08:38; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46257  
8; 3869.0; 04-JAN-2011 09:12:00; Bright; 27.0; 32; 77Eps UMa ; 1.76; 11000;occ; 54; 0;46257  
9; 3933.6; 04-JAN-2011 09:13:05; Bright; 46.0; 55; 79Zet UMa ; 2.06; 10200;occ; 92; 0;46257  
10; 4076.1; 04-JAN-2011 09:15:28; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46257  
11; 4332.1; 04-JAN-2011 09:19:44; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;46257  
12; 4562.2; 04-JAN-2011 09:23:34; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;46257  
13; 4883.1; 04-JAN-2011 09:28:55; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;46257  
14; 5194.0; 04-JAN-2011 09:34:05; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;46257  
15; 5359.9; 04-JAN-2011 09:36:51; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;46257  
16; 5777.9; 04-JAN-2011 09:43:49; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;46257  
17; 5937.5; 04-JAN-2011 09:46:29; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46257  
18; 6039.2; 04-JAN-2011 09:48:11; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46258  
19; 6155.9; 04-JAN-2011 09:50:07; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46258  
20; 6270.1; 04-JAN-2011 09:52:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46258  
21; 6526.7; 04-JAN-2011 09:56:18; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;46258  
22; 6663.3; 04-JAN-2011 09:58:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46258  
23; 6777.4; 04-JAN-2011 10:00:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46258  
24; 6946.3; 04-JAN-2011 10:03:18; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46258  
25; 7076.8; 04-JAN-2011 10:05:28; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46258  
26; 7194.4; 04-JAN-2011 10:07:26; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46258  
27; 7357.6; 04-JAN-2011 10:10:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;46258  
28; 7447.7; 04-JAN-2011 10:11:39; Dark ; 44.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 88; 0;46258  
29; 7590.3; 04-JAN-2011 10:14:02; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;46258

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1; 1576.4; 04-JAN-2011 10:14:02; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;46258  
2; 2018.5; 04-JAN-2011 10:21:24; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;46258  
3; 2200.2; 04-JAN-2011 10:24:26; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;46258  
4; 2299.5; 04-JAN-2011 10:26:05; Bright; 41.0; 151; 13Mu Gem ; 2.89; 3000;occ; 82; 0;46258  
5; 2541.3; 04-JAN-2011 10:30:07; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46258  
6; 2674.1; 04-JAN-2011 10:32:20; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46258  
7; 3666.6; 04-JAN-2011 10:48:52; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46258  
8; 3933.2; 04-JAN-2011 10:53:19; Bright; 45.0; 55; 79Zet UMa ; 2.06; 10200;occ; 90; 0;46258  
9; 4075.8; 04-JAN-2011 10:55:41; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;46258  
10; 4332.0; 04-JAN-2011 10:59:57; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;46258  
11; 4562.3; 04-JAN-2011 11:03:48; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46258  
12; 4883.4; 04-JAN-2011 11:09:09; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46258  
13; 5194.4; 04-JAN-2011 11:14:20; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;46258  
14; 5360.5; 04-JAN-2011 11:17:06; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;46258  
15; 5778.6; 04-JAN-2011 11:24:04; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;46258  
16; 5938.0; 04-JAN-2011 11:26:43; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46258  
17; 6039.8; 04-JAN-2011 11:28:25; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46259  
18; 6156.5; 04-JAN-2011 11:30:22; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;46259  
19; 6271.0; 04-JAN-2011 11:32:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46259  
20; 6527.6; 04-JAN-2011 11:36:33; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46259  
21; 6664.1; 04-JAN-2011 11:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;46259  
22; 6777.7; 04-JAN-2011 11:40:43; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46259  
23; 6946.9; 04-JAN-2011 11:43:32; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;46259  
24; 7077.3; 04-JAN-2011 11:45:43; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46259  
25; 7194.8; 04-JAN-2011 11:47:40; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46259  
26; 7357.8; 04-JAN-2011 11:50:23; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46259  
27; 7447.8; 04-JAN-2011 11:51:53; Dark ; 42.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 84; 0;46259  
28; 7590.5; 04-JAN-2011 11:54:16; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;46259

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5; 2541.1; 04-JAN-2011 12:10:20; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46259  
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 23; 6947.4; 04-JAN-2011 13:23:47; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46260  
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9; 774.7; 06-JAN-2011 00:26:02; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46281  
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 26; 7453.6; 06-JAN-2011 10:38:32; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;46287  
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 27; 7453.8; 06-JAN-2011 12:18:46; Dark ; 43.0; 179; 240mi2CMA ; 3.03; 24000;occ; 86; 0;46288  
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 22; 6793.0; 06-JAN-2011 13:47:59; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;46289  
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 12; 4569.6; 06-JAN-2011 14:51:09; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;46289  
 13; 4894.4; 06-JAN-2011 14:56:34; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;46289  
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 23; 6793.5; 06-JAN-2011 15:28:13; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46290  
 24; 6961.4; 06-JAN-2011 15:31:01; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46290  
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16; 5383.1; 06-JAN-2011 16:44:57; Dark ; 49.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 98; 0;46290
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22; 6222.2; 06-JAN-2011 18:39:10; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46292
23; 6302.2; 06-JAN-2011 18:40:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46292
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26; 6794.6; 06-JAN-2011 18:48:43; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46292
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21; 6806.6; 08-JAN-2011 12:34:45; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46317  
22; 6973.4; 08-JAN-2011 12:37:32; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46317  
23; 7102.9; 08-JAN-2011 12:39:41; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46317  
24; 7213.5; 08-JAN-2011 12:41:32; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46317  
25; 7372.2; 08-JAN-2011 12:44:11; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;46317  
26; 7460.0; 08-JAN-2011 12:45:38; Dark ; 41.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 82; 0;46317

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2; 2027.6; 08-JAN-2011 12:55:20; Dark ; 37.0; 8; 10Alp CMi ; 0.40; 6500;occ; 74; 0;46317  
3; 2187.5; 08-JAN-2011 12:58:00; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;46317  
4; 2288.1; 08-JAN-2011 12:59:40; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;46317  
5; 2532.2; 08-JAN-2011 13:03:45; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;46317  
6; 2664.4; 08-JAN-2011 13:05:57; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46317  
7; 3659.2; 08-JAN-2011 13:22:32; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46317  
8; 3905.0; 08-JAN-2011 13:26:37; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;46317  
9; 4332.4; 08-JAN-2011 13:33:45; Bright; 56.5; 180; 27Gam Boo ; 3.04; 8000;occ; 113; 0;46317  
10; 4576.1; 08-JAN-2011 13:37:48; Bright; 48.0; 83; ; 2.38; 11000;occ; 96; 0;46317  
11; 4904.6; 08-JAN-2011 13:43:17; Bright; 56.5; 102; 24Alp Ser ; 2.60; 4250;occ; 113; 0;46317  
12; 5227.5; 08-JAN-2011 13:48:40; Dark ; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;46317  
13; 5403.4; 08-JAN-2011 13:51:36; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46317  
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15; 5979.0; 08-JAN-2011 14:01:11; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46317  
16; 6076.3; 08-JAN-2011 14:02:49; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46318

17; 6237.8; 08-JAN-2011 14:05:30; Dark ; 40.5; 20; Bet Cru ; 1.25; 3000;occ; 81; 0;46318  
 18; 6326.6; 08-JAN-2011 14:06:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46318  
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 20; 6693.7; 08-JAN-2011 14:13:06; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46318  
 21; 6807.1; 08-JAN-2011 14:14:59; Dark ; 49.5; 46; Del Vel ; 1.95; 10600;occ; 99; 0;46318  
 22; 6973.7; 08-JAN-2011 14:17:46; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;46318  
 23; 7103.5; 08-JAN-2011 14:19:56; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46318  
 24; 7213.9; 08-JAN-2011 14:21:46; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;46318  
 25; 7372.3; 08-JAN-2011 14:24:25; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;46318  
 26; 7460.1; 08-JAN-2011 14:25:52; Dark ; 43.0; 179; 240mi2CMA ; 3.03; 24000;occ; 86; 0;46318

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 3; 2027.2; 08-JAN-2011 14:35:34; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;46318  
 4; 2187.3; 08-JAN-2011 14:38:14; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;46318  
 5; 2288.0; 08-JAN-2011 14:39:54; Bright; 43.0; 151; 13Mu Gem ; 2.89; 3000;occ; 86; 0;46318  
 6; 2532.3; 08-JAN-2011 14:43:59; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46318  
 7; 2664.4; 08-JAN-2011 14:46:11; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;46318  
 8; 3659.1; 08-JAN-2011 15:02:45; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;46318  
 9; 3904.9; 08-JAN-2011 15:06:51; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46318  
 10; 4332.7; 08-JAN-2011 15:13:59; Bright; 47.0; 180; 27Gam Boo ; 3.04; 8000;occ; 94; 0;46318  
 11; 4576.5; 08-JAN-2011 15:18:03; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;46318  
 12; 4905.1; 08-JAN-2011 15:23:31; Bright; 58.0; 102; 24Alp Ser ; 2.60; 4250;occ; 116; 0;46318  
 13; 5228.1; 08-JAN-2011 15:28:54; Dark ; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;46318  
 14; 5404.4; 08-JAN-2011 15:31:51; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46318  
 15; 5828.5; 08-JAN-2011 15:38:55; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;46318  
 16; 5979.8; 08-JAN-2011 15:41:26; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46318  
 17; 6077.2; 08-JAN-2011 15:43:03; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46319  
 18; 6238.2; 08-JAN-2011 15:45:44; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;46319  
 19; 6327.6; 08-JAN-2011 15:47:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46319  
 20; 6579.0; 08-JAN-2011 15:51:25; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46319  
 21; 6694.2; 08-JAN-2011 15:53:21; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;46319  
 22; 6807.5; 08-JAN-2011 15:55:14; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;46319  
 23; 6974.0; 08-JAN-2011 15:58:00; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46319  
 24; 7103.9; 08-JAN-2011 16:00:10; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46319  
 25; 7214.1; 08-JAN-2011 16:02:00; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;46319

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 3; 1584.3; 08-JAN-2011 16:08:25; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;46319  
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 5; 2187.1; 08-JAN-2011 16:18:27; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;46319  
 6; 2287.7; 08-JAN-2011 16:20:08; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;46319  
 7; 2532.1; 08-JAN-2011 16:24:12; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;46319  
 8; 2664.3; 08-JAN-2011 16:26:25; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46319  
 9; 3658.9; 08-JAN-2011 16:42:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46319  
 10; 3904.9; 08-JAN-2011 16:47:05; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46319  
 11; 4332.5; 08-JAN-2011 16:54:13; Bright; 68.0; 180; 27Gam Boo ; 3.04; 8000;occ; 136; 0;46319  
 12; 4576.7; 08-JAN-2011 16:58:17; Bright; 69.0; 83; ; 2.38; 11000;occ; 138; 0;46319  
 13; 4905.4; 08-JAN-2011 17:03:46; Bright; 58.0; 102; 24Alp Ser ; 2.60; 4250;occ; 116; 0;46319  
 14; 5228.7; 08-JAN-2011 17:09:09; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46319  
 15; 5404.9; 08-JAN-2011 17:12:05; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46319  
 16; 5829.4; 08-JAN-2011 17:19:10; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;46319  
 17; 5980.5; 08-JAN-2011 17:21:41; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46319  
 18; 6077.8; 08-JAN-2011 17:23:18; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;46320  
 19; 6238.8; 08-JAN-2011 17:25:59; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;46320  
 20; 6328.6; 08-JAN-2011 17:27:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46320  
 21; 6580.0; 08-JAN-2011 17:31:40; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46320  
 22; 6694.8; 08-JAN-2011 17:33:35; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46320  
 23; 6808.1; 08-JAN-2011 17:35:28; Dark ; 47.5; 46; Del Vel ; 1.95; 10600;occ; 95; 0;46320  
 24; 6974.7; 08-JAN-2011 17:38:15; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;46320  
 25; 7104.4; 08-JAN-2011 17:40:25; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46320  
 26; 7214.5; 08-JAN-2011 17:42:15; Dark ; 12.5; 117; Pi Pup ; 2.71; 3800;occ; 25; 0;46320

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 3; 1446.2; 08-JAN-2011 17:46:21; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;46320  
 4; 1584.4; 08-JAN-2011 17:48:39; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;46320

5; 2026.5; 08-JAN-2011 17:56:01; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;46320  
6; 2186.9; 08-JAN-2011 17:58:41; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;46320  
7; 2287.6; 08-JAN-2011 18:00:22; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;46320  
8; 2531.8; 08-JAN-2011 18:04:26; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;46320  
9; 2664.2; 08-JAN-2011 18:06:39; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46320  
10; 3658.7; 08-JAN-2011 18:23:13; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46320  
11; 3904.7; 08-JAN-2011 18:27:19; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46320  
12; 4332.5; 08-JAN-2011 18:34:27; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;46320  
13; 4576.9; 08-JAN-2011 18:38:31; Bright; 69.0; 83; ; 2.38; 11000;occ; 138; 0;46320  
14; 4905.7; 08-JAN-2011 18:44:00; Bright; 58.0; 102; 24Alp Ser ; 2.60; 4250;occ; 116; 0;46320  
15; 5229.2; 08-JAN-2011 18:49:24; Dark ; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;46320  
16; 5405.8; 08-JAN-2011 18:52:20; Dark ; 51.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 103; 0;46320  
17; 5830.2; 08-JAN-2011 18:59:25; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;46320  
18; 5981.3; 08-JAN-2011 19:01:56; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46320  
19; 6078.3; 08-JAN-2011 19:03:33; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46321  
20; 6239.3; 08-JAN-2011 19:06:14; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46321  
21; 6329.5; 08-JAN-2011 19:07:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46321  
22; 6580.8; 08-JAN-2011 19:11:55; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46321  
23; 6695.3; 08-JAN-2011 19:13:50; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46321  
24; 6808.5; 08-JAN-2011 19:15:43; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46321  
25; 6975.0; 08-JAN-2011 19:18:29; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;46321

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2; 1090.7; 08-JAN-2011 19:20:39; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46321  
3; 1200.6; 08-JAN-2011 19:22:29; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46321  
4; 1359.0; 08-JAN-2011 19:25:08; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;46321  
5; 1446.5; 08-JAN-2011 19:26:35; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0;46321  
6; 1584.6; 08-JAN-2011 19:28:53; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;46321  
7; 2026.1; 08-JAN-2011 19:36:15; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;46321  
8; 2186.7; 08-JAN-2011 19:38:55; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;46321  
9; 2287.4; 08-JAN-2011 19:40:36; Bright; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;46321  
10; 2531.7; 08-JAN-2011 19:44:40; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;46321  
11; 2664.1; 08-JAN-2011 19:46:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;46321  
12; 3658.6; 08-JAN-2011 20:03:27; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46321  
13; 3904.8; 08-JAN-2011 20:07:33; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;46321  
14; 4332.3; 08-JAN-2011 20:14:41; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;46321  
15; 4577.1; 08-JAN-2011 20:18:46; Bright; 50.0; 83; ; 2.38; 11000;occ; 100; 0;46321  
16; 4906.0; 08-JAN-2011 20:24:15; Bright; 58.0; 102; 24Alp Ser ; 2.60; 4250;occ; 116; 0;46321  
17; 5229.9; 08-JAN-2011 20:29:38; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46321  
18; 5406.4; 08-JAN-2011 20:32:35; Dark ; 48.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 97; 0;46321  
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20; 5981.9; 08-JAN-2011 20:42:10; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46321  
21; 6078.9; 08-JAN-2011 20:43:47; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;46322  
22; 6239.9; 08-JAN-2011 20:46:28; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;46322  
23; 6330.4; 08-JAN-2011 20:47:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46322  
24; 6581.3; 08-JAN-2011 20:52:10; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46322  
25; 6695.4; 08-JAN-2011 20:54:04; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46322  
26; 6808.9; 08-JAN-2011 20:55:57; Dark ; 47.5; 46; Del Vel ; 1.95; 10600;occ; 95; 0;46322  
27; 6975.4; 08-JAN-2011 20:58:44; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;46322

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3; -227.1; 09-JAN-2011 01:39:37; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;46324  
4; -137.2; 09-JAN-2011 01:41:07; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;46324  
5; -30.0; 09-JAN-2011 01:42:54; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46324  
6; 66.7; 09-JAN-2011 01:44:31; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46325  
7; 227.7; 09-JAN-2011 01:47:12; Dark ; 44.5; 20; Bet Cru ; 1.25; 30000;occ; 89; 0;46325  
8; 319.2; 09-JAN-2011 01:48:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46325  
9; 570.1; 09-JAN-2011 01:52:55; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46325  
10; 683.1; 09-JAN-2011 01:54:47; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46325  
11; 796.3; 09-JAN-2011 01:56:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;46325  
12; 962.6; 09-JAN-2011 01:59:27; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46325  
13; 1092.2; 09-JAN-2011 02:01:37; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46325  
14; 1201.9; 09-JAN-2011 02:03:26; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;46325  
15; 1359.8; 09-JAN-2011 02:06:04; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;46325  
16; 1447.1; 09-JAN-2011 02:07:32; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46325  
17; 1585.0; 09-JAN-2011 02:09:49; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;46325  
18; 2024.7; 09-JAN-2011 02:17:09; Dark ; 64.0; 8; 10Alp CMi ; 0.40; 6500;occ; 128; 0;46325



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7; 3895.9; 21-JAN-2011 15:30:23; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;46505  
8; 4445.0; 21-JAN-2011 15:39:32; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46505  
9; 4586.2; 21-JAN-2011 15:41:54; Bright; 70.0; 67; 5Alp CrB ; 2.22; 11000;occ; 140; 0;46505  
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22; 6827.3; 21-JAN-2011 16:19:15; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;46506  
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4; 2413.9; 21-JAN-2011 16:45:55; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;46506  
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7; 3895.9; 21-JAN-2011 17:10:37; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46506  
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5; 2413.6; 21-JAN-2011 18:26:09; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;46507  
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7; 3626.9; 21-JAN-2011 18:46:22; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46507  
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13; 1438.2; 25-JAN-2011 02:21:06; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;46555
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13;	3600.5;	30-JAN-2011	01:33:44;	Bright;	;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;46626
14;	3880.4;	30-JAN-2011	01:38:24;	Bright;	;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;46626
15;	4066.8;	30-JAN-2011	01:41:30;	Bright;	;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;46626
16;	4461.5;	30-JAN-2011	01:48:05;	Bright;	;	40.5;	133;	40Zet Her	;	2.81;	6000;occ;	81;	0;46626
17;	4673.4;	30-JAN-2011	01:51:37;	Bright;	;	57.5;	127;	27Bet Her	;	2.78;	4700;occ;	115;	0;46626
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12;	2383.5;	30-JAN-2011	02:53:41;	Bright;	;	42.0;	17;	78Bet Gem	;	1.16;	4500;occ;	84;	0;46627
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8;	-482.8;	30-JAN-2011	03:46:08;	Dark	;	59.0;	16;	21Alp Sco	;	1.02;	3000;occ;	118;	0;46627
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10;	-8.5;	30-JAN-2011	03:54:03;	Dark	;	45.5;	109;	Bet Lup	;	2.68;	26000;occ;	91;	0;46627
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15;	792.4;	30-JAN-2011	04:07:23;	Dark	;	49.5;	113;	Mu Vel	;	2.69;	5000;occ;	99;	0;46628
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2;	-1947.1;	30-JAN-2011	05:01:58;	Bright;	;	55.0;	130;	23Bet Dra	;	2.80;	5800;occ;	110;	0;46628
3;	-1552.2;	30-JAN-2011	05:08:33;	Bright;	;	42.0;	133;	40Zet Her	;	2.81;	6000;occ;	84;	0;46628
4;	-1339.9;	30-JAN-2011	05:12:05;	Bright;	;	65.0;	127;	27Bet Her	;	2.78;	4700;occ;	130;	0;46628
5;	-1245.6;	30-JAN-2011	05:13:40;	Bright;	;	36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;46628
6;	-735.2;	30-JAN-2011	05:22:10;	Dark	;	46.5;	86;	35Eta Oph	;	2.43;	10200;occ;	93;	0;46628
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4;	1980.4;	31-JAN-2011	18:52:34;	Dark	;	52.0;	8;	10Alp CMi	;	0.40;	6500;occ;	104;	0;46651
5;	2379.8;	31-JAN-2011	18:59:13;	Bright;		41.0;	17;	78Bet Gem	;	1.16;	4500;occ;	82;	0;46651
6;	3267.0;	31-JAN-2011	19:14:01;	Bright;		47.0;	36;	50Alp UMa	;	1.80;	6300;occ;	94;	0;46651
7;	3594.5;	31-JAN-2011	19:19:28;	Bright;		41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;46651
8;	3876.5;	31-JAN-2011	19:24:10;	Bright;		40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;46651
9;	4066.7;	31-JAN-2011	19:27:20;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;46651
10;	4465.0;	31-JAN-2011	19:33:59;	Bright;		63.0;	133;	40Zet Her	;	2.81;	6000;occ;	126;	0;46651
11;	4681.5;	31-JAN-2011	19:37:35;	Bright;		46.5;	127;	27Bet Her	;	2.78;	4700;occ;	93;	0;46651
12;	4902.8;	31-JAN-2011	19:41:16;	Bright;		50.0;	126;	60Bet Oph	;	2.77;	4250;occ;	100;	0;46651
13;	5289.9;	31-JAN-2011	19:47:43;	Dark	;	44.5;	86;	35Eta Oph	;	2.43;	10200;occ;	89;	0;46651
14;	5547.5;	31-JAN-2011	19:52:01;	Dark	;	53.5;	16;	21Alp Sco	;	1.02;	3000;occ;	107;	0;46651
15;	5630.7;	31-JAN-2011	19:53:24;	Dark	;	47.5;	158;	6Pi Sco	;	2.91;	28000;occ;	95;	0;46651
16;	5893.7;	31-JAN-2011	19:57:47;	Dark	;	44.0;	131;	Gam Lup	;	2.80;	26000;occ;	88;	0;46651
17;	6026.7;	31-JAN-2011	20:00:00;	Dark	;	44.5;	109;	Bet Lup	;	2.68;	26000;occ;	89;	0;46652
18;	6121.7;	31-JAN-2011	20:01:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46652
19;	6275.4;	31-JAN-2011	20:04:09;	Dark	;	41.5;	10;	Bet Cen	;	0.61;	28000;occ;	83;	0;46652
20;	6478.4;	31-JAN-2011	20:07:32;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;46652
21;	6598.7;	31-JAN-2011	20:09:32;	Dark	;	46.0;	99;	Del Cen	;	2.58;	26000;occ;	92;	0;46652
22;	6821.1;	31-JAN-2011	20:13:15;	Dark	;	44.0;	113;	Mu Vel	;	2.69;	5000;occ;	88;	0;46652